

Catalogue – 2022 1st edition
Electrical installation solutions for buildings

Product description, quick and easy selection of product codes

- DIN-rail products
- Light switches and wiring accessories
- Home and building automation
- Enclosures

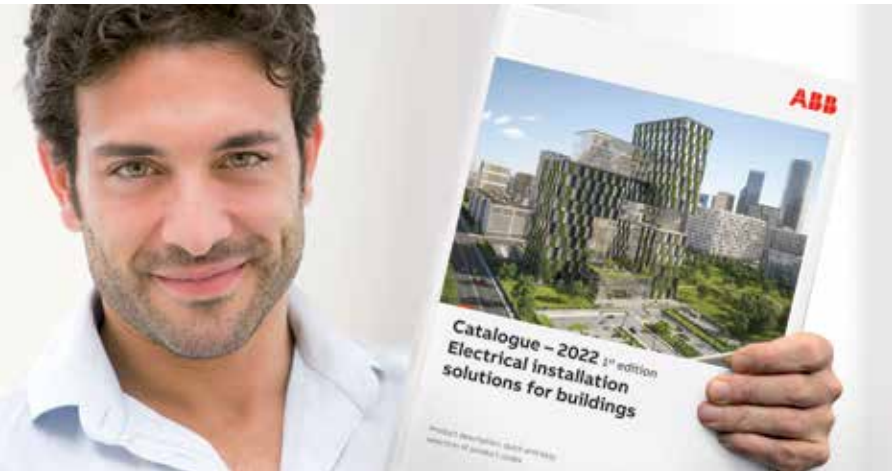
Electrical installation solutions for buildings

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Two volumes, one objective: to always find the best solution

From a single catalogue with two complementary volumes: streamline to simplify, analyse to choose.

The catalog Electrical installation solutions for buildings comes in two separate but integrated volumes: one dedicated to the description and easy selection of products code and one for professionals searching for in-depth details and specifications, installation examples and special technical solutions.



Electrical installation solutions for buildings
An indispensable tool for those who are looking for easy selection of a completely reliable range of products

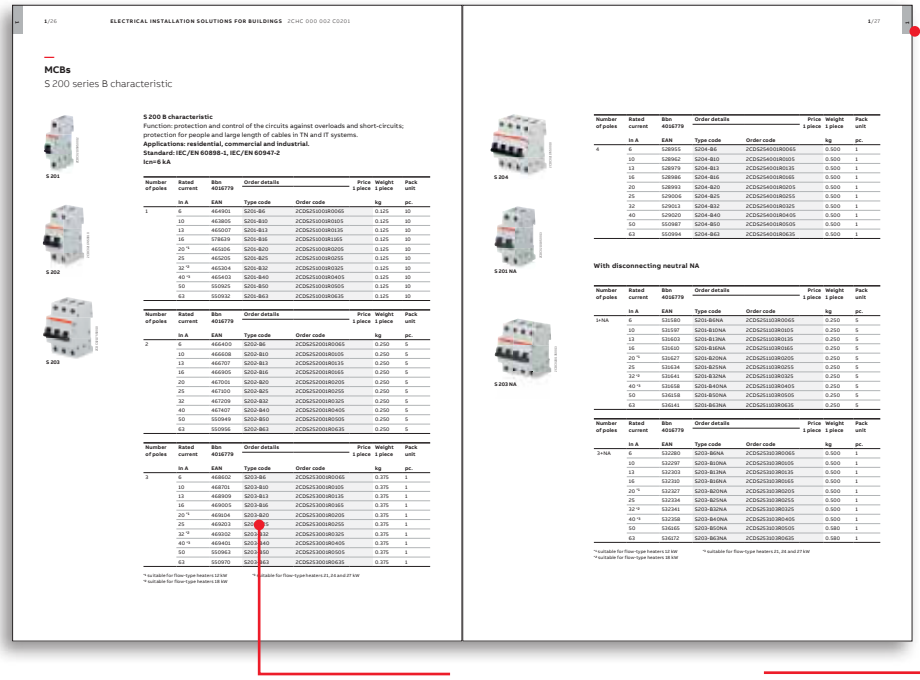
The main catalogue summarizes all the technical-commercial characteristics of the products, allows one to navigate between the main characteristics, descriptions, specifications, accessories, product pictures, illustrations and information about the individual codes.
The catalogue is a helpful product guide, which makes easier the orientation in a very complex product range of ABB products for electrical installation in buildings.

Electrical installation solutions for buildings - Technical details
Technical details and information, application examples, installation solutions: the complete ABB know how at the service of professionals

The technical addendum dedicated to technical-applicative details provides professionals with a series of specialized information such as the operating curve, selectivity tables, connection diagrams, etc. The numbers of chapters in the technical addendum match with the same chapters in the main catalog.

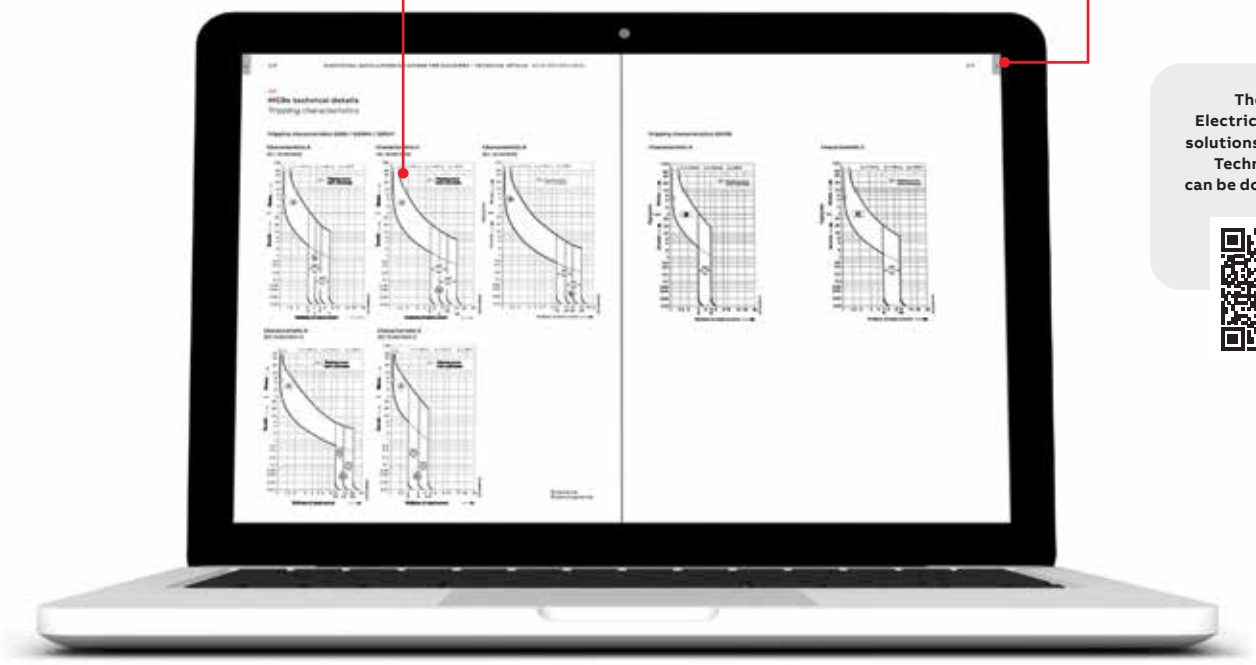


Two volumes that reference each other, which are manageable and easily consultable, designed for those who wish to find the clearest solution in the least possible time.



Arguments developed in the same logical sequence

Same reference heading



The volume Electrical installation solutions for buildings can be downloaded here

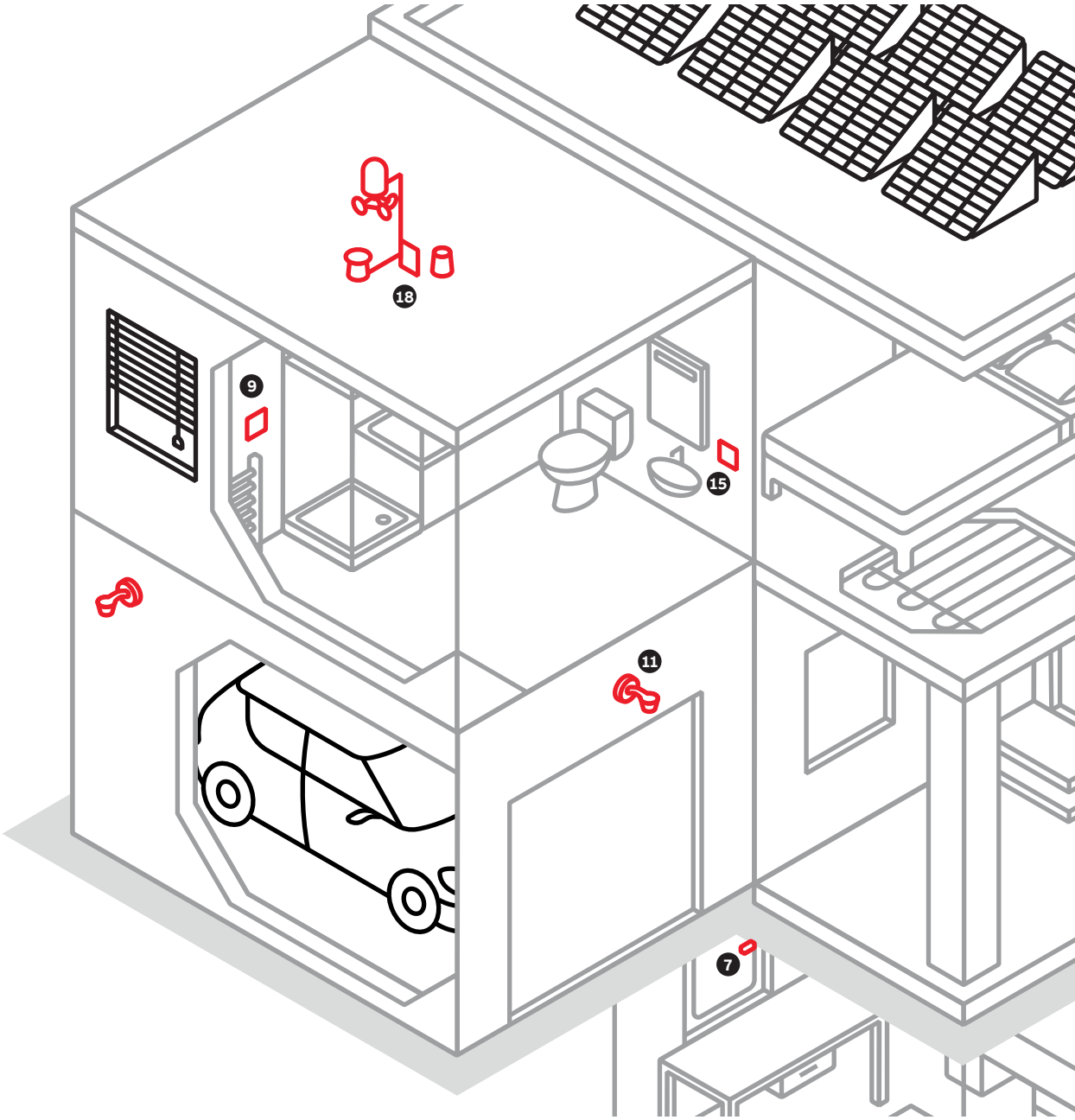
TIP:
You can always find a detailed online information about the particular product item:

Just type down this URL address: **http://new.abb.com/products/** and add the product order code at the end like e.g. http://new.abb.com/products/**2CDS274337R0158**)

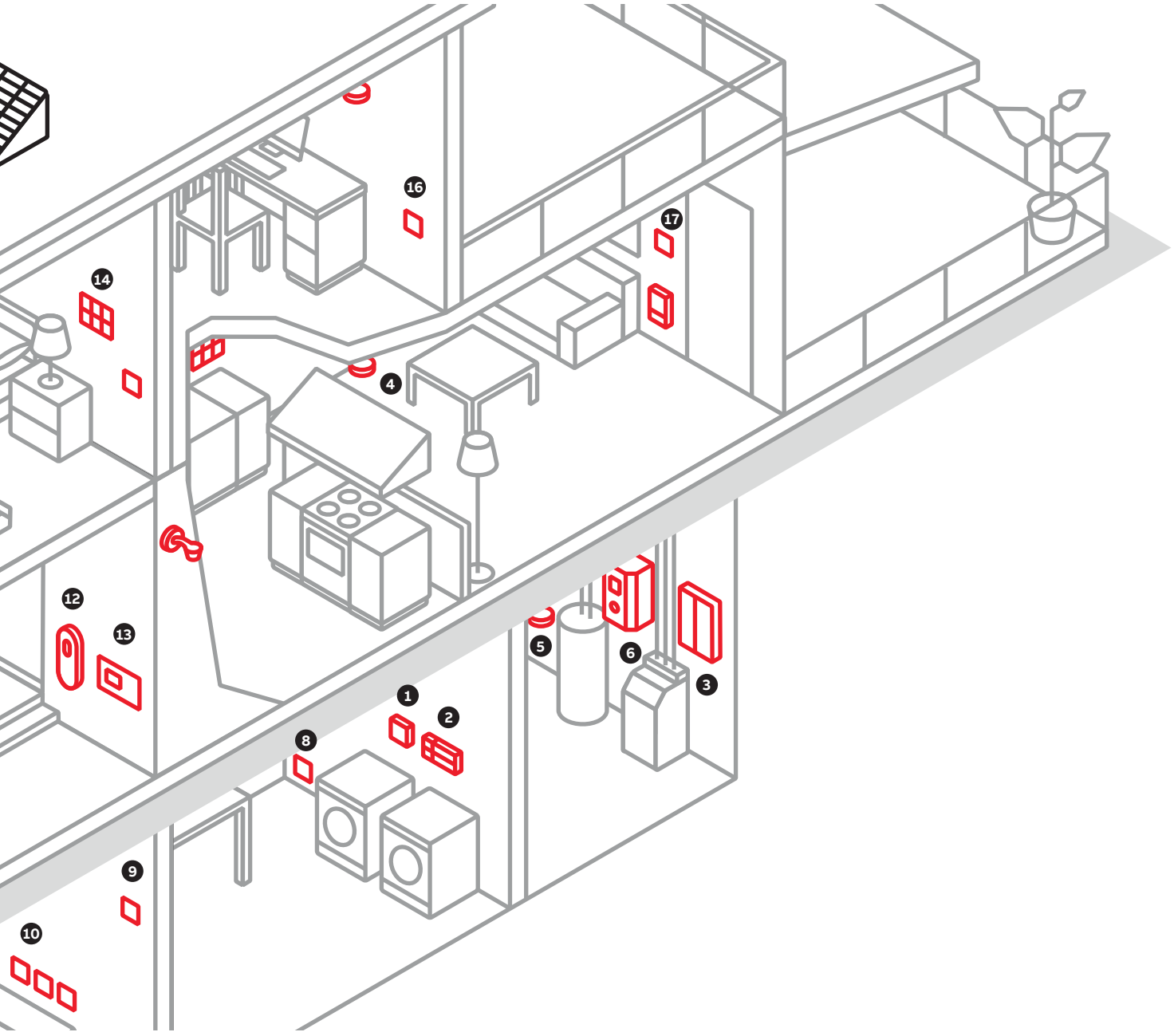
The volume Electrical installation solutions for buildings - Technical details can be downloaded here

Electrical installation solutions for buildings

Quality of life, living comfort and safety



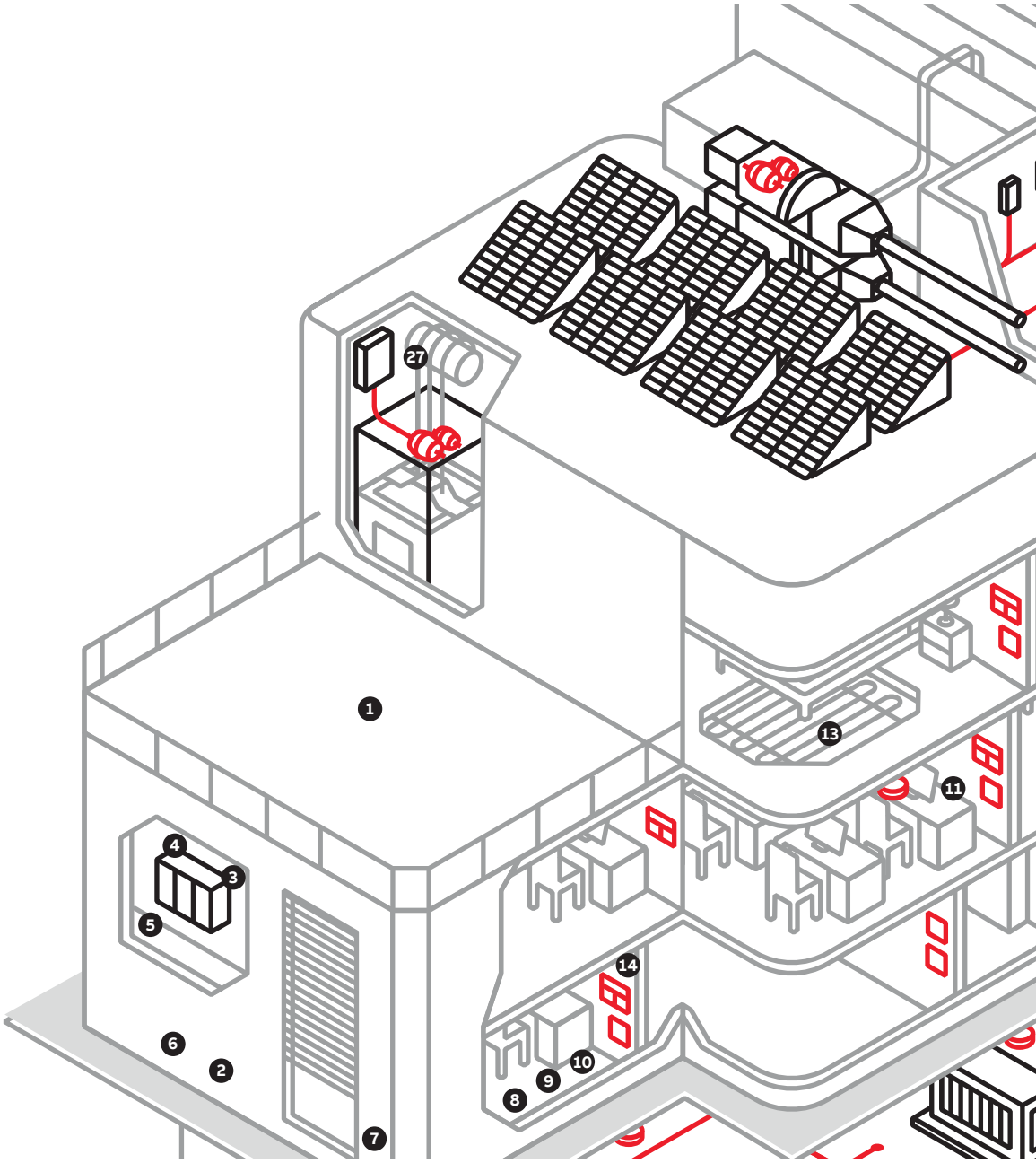
1. Safety switch
2. Energy meter
3. Small and home distributor
4. Smoke detectors
5. Movement detectors
6. Photovoltaic inverter
7. CO2 indoor air sensor
8. Switches and socket outlets
9. Room temperature controller with venetian blind control unit
10. Busch-DigitalRadio
11. Movement detector
12. Access control systems
13. Burglar alarm systems
14. ABB i-bus® KNX touch panel
15. Safety socket outlets
16. Communications socket outlets



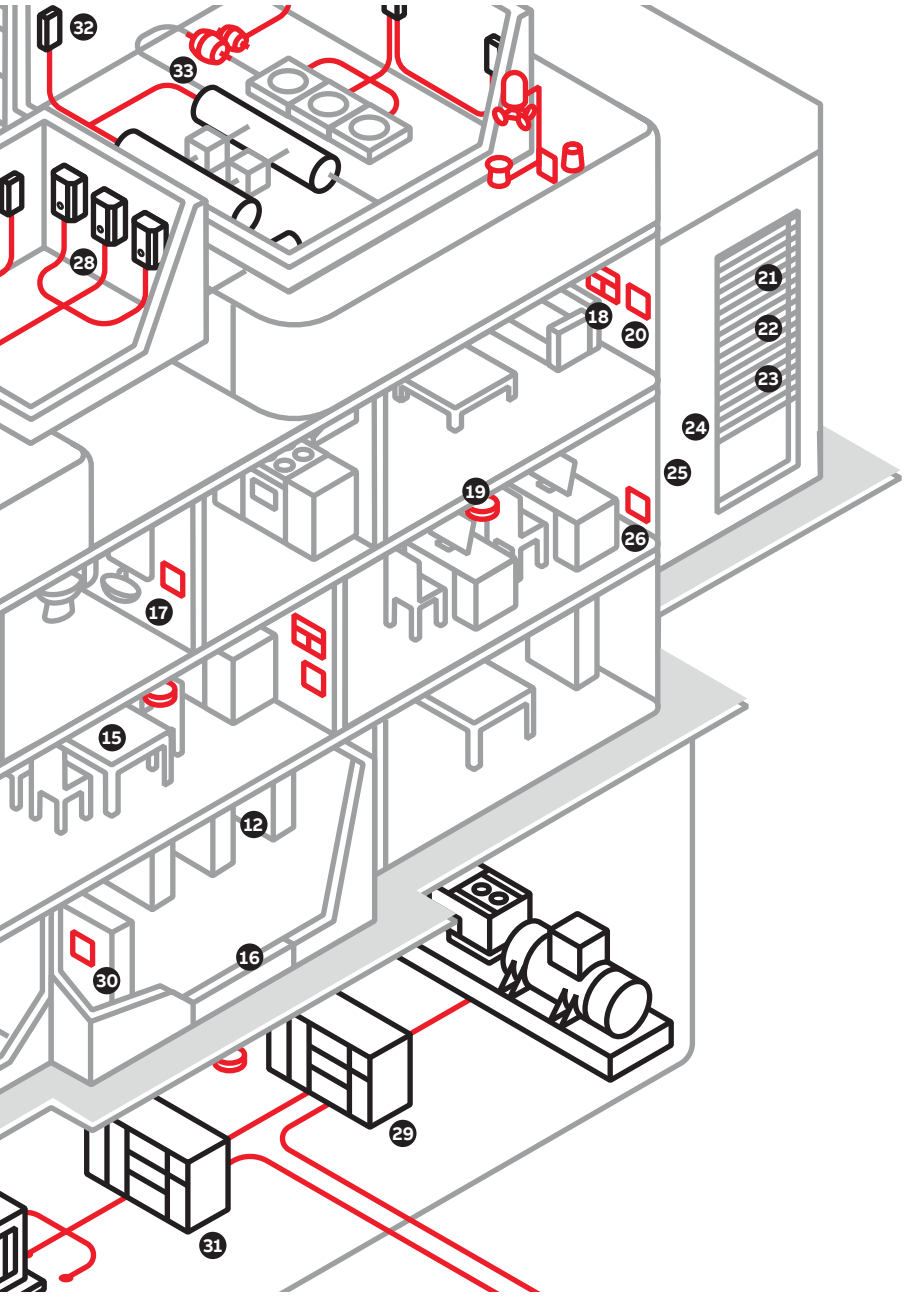
17. Switches and socket outlets for outdoor and wet areas
18. Weather sensor unit

Electrical installation solutions for buildings

Solutions for commercial and industrial buildings



1. Lightning protection
2. Circuit breakers
3. Central battery systems
4. Cable ties and accessories
5. Cable connections
6. Distributors
7. Energy meter
8. Industrial connectors
9. Terminal blocks
10. Push-button
11. Non-metallic, flexible cable ducts
12. Cable duct, cable ties
13. Protection relay
14. AC & DC switches in housing
15. Bus modules
16. Overvoltage protection devices
17. Earth-fault relay
18. Door communication



19. Emergency lighting
20. Timers
21. Electrical and grounding connections
22. Safety components
23. Electrical distribution systems
24. Motor starter combinations, soft starters
25. Energy distribution unit
26. Cable connections & accessories
27. EMC safety switch
28. DC load-break switches
29. Tmax XT power circuit breaker
30. OT load-break switches
31. XLP safety load-break switch
32. Safety switches for aeration or air-conditioning systems
33. HVAC controls

Notes

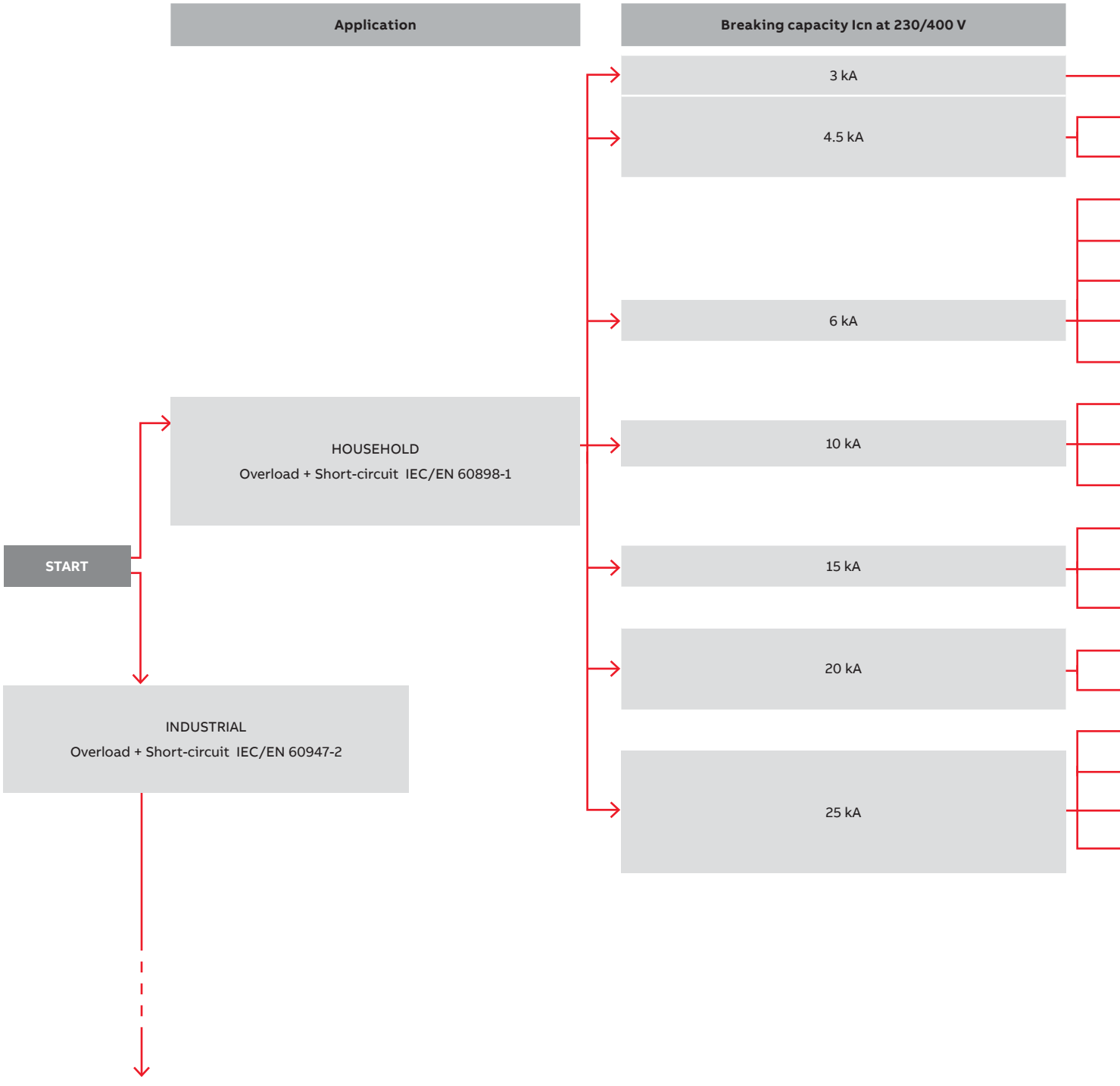
Electrical installation solutions for buildings
Miniature circuit-breakers

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System pro M compact®
Quick selection of MCBs for household and industrial applications

Easy! Find the right range and the corresponding catalogue page at a glance using this selection chart.



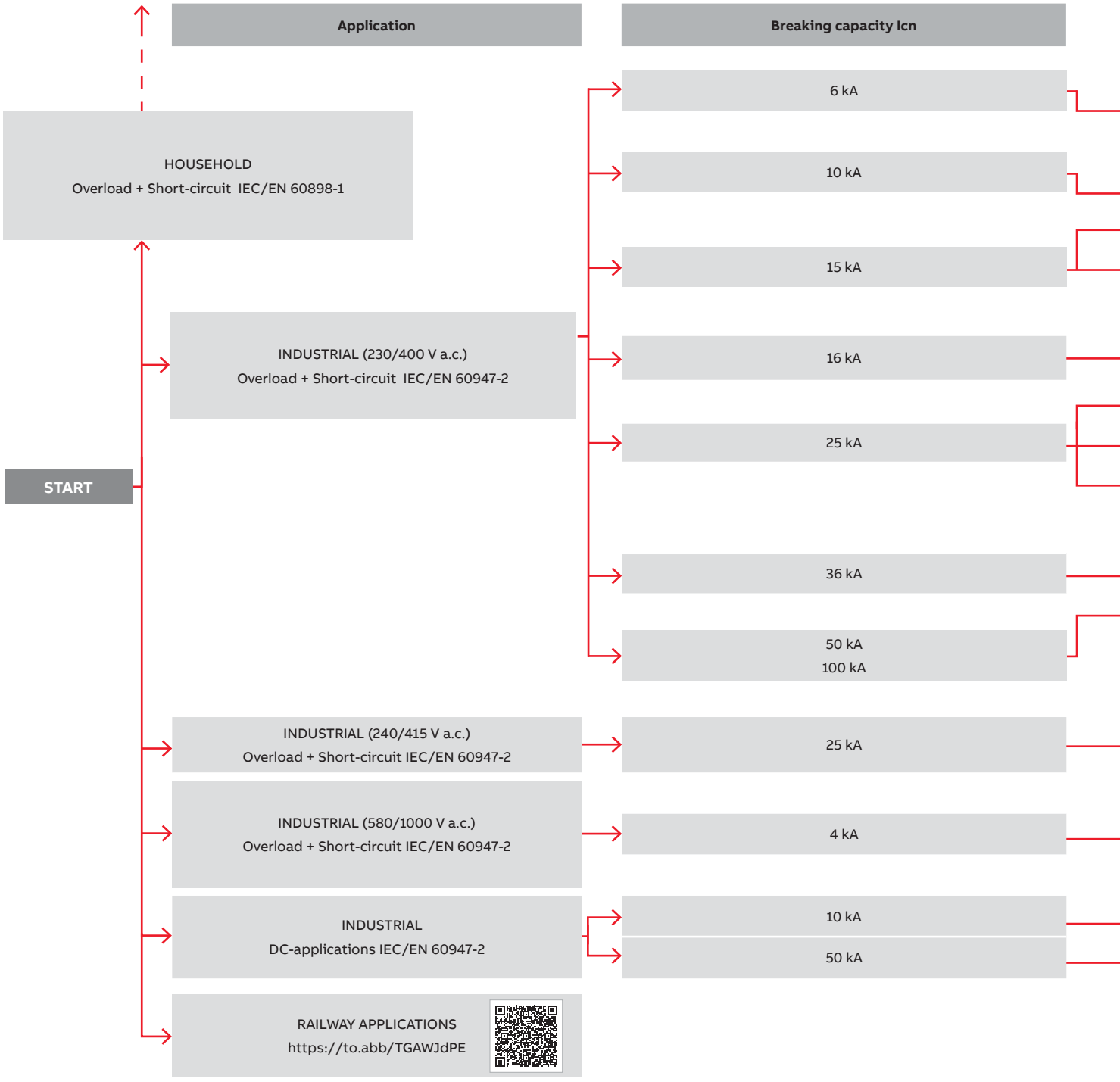
System pro M compact®

Quick selection of MCBs for household and industrial applications

Rated current	Poles	Solution	Page
Up to 40 A	2,3,4	S200CT	1/113
Up to 40 A	2,3,4	S200CL	1/113
Up to 40 A	1P+N	SN 201 L	1/122
Up to 40 A	1+1,2,3,4	S200C	1/126
Up to 40 A	1P+N	SN 201	1/123
Up to 20 A	1P, 3P	S 200 S	1/99
Up to 63 A	All poles	S 200	1/30
Up to 100 A	All poles	S 200	1/123
Up to 40 A	1P+N	SN 201 M	1/125
Up to 32 A	2	S200CM	1/114
Up to 63 A	All poles	S 200 M	1/44
Up to 63 A	All poles	S 200 P	1/84
Up to 125 A	All poles	S800C	1/187
Up to 63 A	All poles	S300P	1/69
Up to 40 A	All poles	S300P	1/69
Up to 80 A	All poles	S800N	1/181
Up to 25 A	All poles	S 200 P	1/84
Up to 100 A	All poles	S 750 DR	1/141
Up to 80 A	All poles	S800S	1/156
Up to 25 A	All poles	S300P	1/69

System pro M compact®

Quick selection of MCBs for household and industrial applications

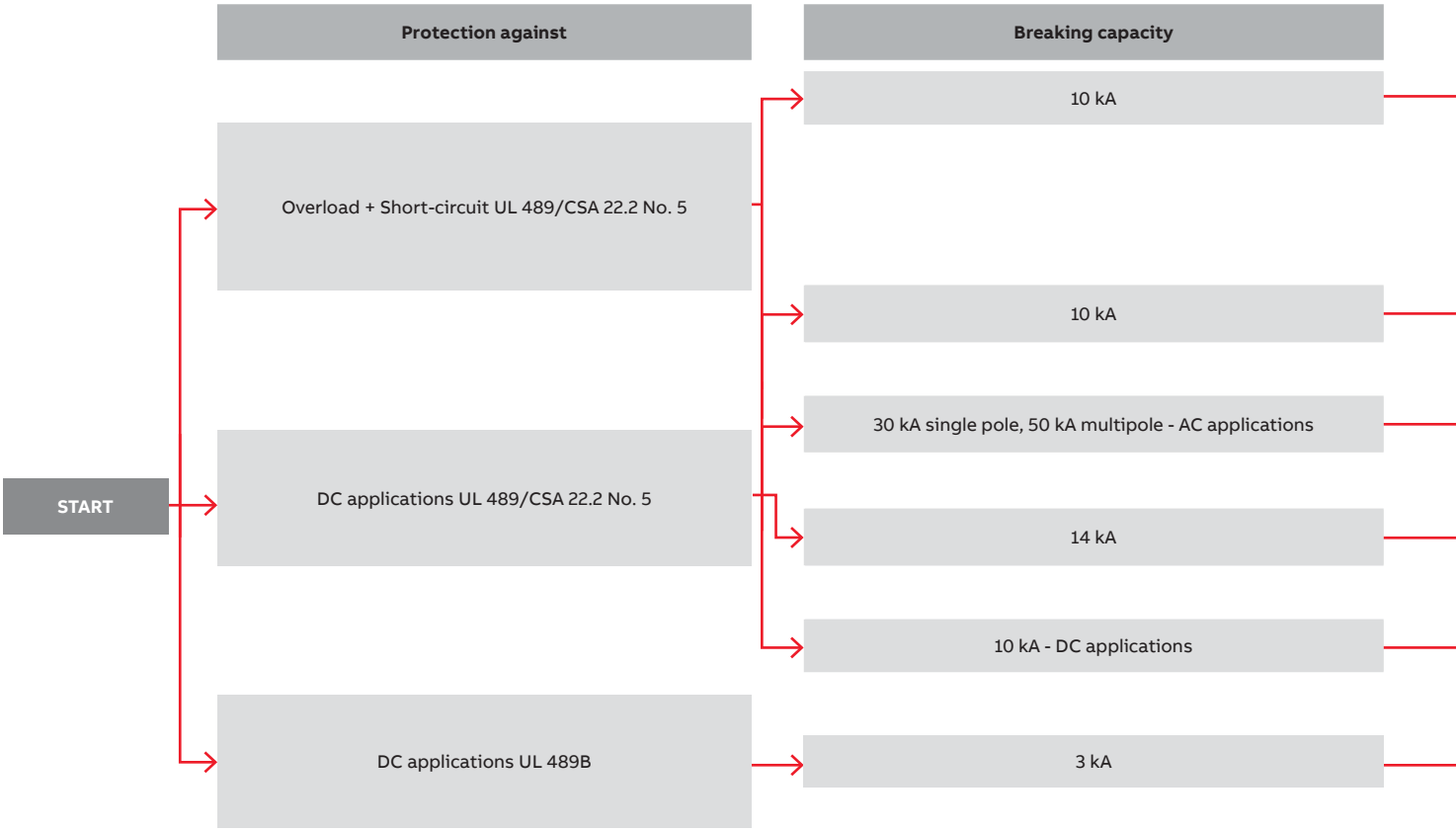


System pro M compact®

Quick selection of MCBs for household and industrial applications

Rated current	Poles	Solution	Page
Up to 100 A	All poles	S 200	1/30
Up to 63 A	All poles	S 200, S 200 M	1/30, 1/44
Up to 40 A	All poles	S 200 M	1/44
Up to 63 A	All poles	S 200 P	1/84
Up to 125 A	All poles	S800B	1/191
Up to 25 A	All poles	S 200 P	1/84
Up to 100 A	All poles	S 750 DR	1/141
Up to 125 A	All poles	S800C	1/187
Up to 125 A	All poles	S800N	1/181
Up to 125 A	All poles	S800S	1/156
Up to 63 A	All poles	S 300P	1/69
Up to 125 A	1P, 2P, 3P	S800HV	1/195
Up to 63 A	1P, 2P, 3P, 4P	S 200 M UC	1/60
Up to 125 A	All poles	S800S-UC	1/198

System pro M compact®
Quick selection of MCBs for UL applications (UL 489/CSA 22.2 No. 5)



System pro M compact®

Quick selection of MCBs for UL applications (UL 489/CSA 22.2 No. 5)

Rated current	Remark	Poles	Solution	Page
Up to 63 A		1P, 2P, 3P, 4P	SU 200 M	1/83
Up to 63 A	Ring Tongue	1P, 2P, 3P, 4P	SU 200 MR	1/93
Up to 100 A	240 V AC	All poles	S 800 U	1/184
Up to 63 A		1P, 2P	S 200 UDC	1/95
Up to 80 A	600 V DC	4P	S804U-UCZ	1/186
5 A		4P	S804U-PVS5	1/187

Miniature circuit-breakers

Selection table



Series				S 200	S 200 M	S 200 M UC	S 200 P			S 300 P				S 200 MR	S 200 S
Characteristics				B,C,D, K,Z	B,C,D, K,Z	B,C, K, Z	B,C,D, K,Z	B,C,D, K,Z	B,C,D, K,Z	B,C,D, K,Z	B,C,D, K,Z	B,C,D, K,Z	B,C,D, K,Z	K	B,C
Rated current [A]				0.5 ≤ In ≤ 63	0.5 ≤ In ≤ 63	0.2 ≤ In ≤ 63	0.2 ≤ In ≤ 25	32 ≤ In ≤ 40	50 ≤ In ≤ 63	0.2 ≤ In ≤ 6	8 ≤ In ≤ 25	32 ≤ In ≤ 40	50 ≤ In ≤ 63	0.2 ≤ In ≤ 63	6 ≤ In ≤ 20
Reference standard		Nr. poles	Ue[V]												
IEC/EN 60898	Icn		230/400	6	10	10	25	15	15						6
			240/415							25	25	20	15		
IEC/EN 60947-2 Alternating current	Icu	1, 1P+N	133	20	25		40	25	25						
			139							100	50	40	40		
			230	10	15		25	15	15					15	
			240							100	25	25	25		
			253												
		2, 3, 4	230	20	25	10 *17/6 *18	40	25	25						
			240							100	50	40	40		
			400	10	15		25	15	15					15	
			415							100	25	25	25		
			440	10	15	10 *17/6 *18				100	15	15	15		
		2, 3, 4	500												
			690												
	Ics	1, 1P+N	133	15	18.7 *8		20	18.7	18.7						
			139							100	20	20	20		
			230	7.5	11.2 *8		12.5	11.2	7.5						
			240							100	12.5	10	7.5		
			253			7.5 *17/6 *18								7.5*18/11.2*17	
		2, 3, 4	230	15	18.7 *8		20	18.7	18.7						
			240							100	20	20	20		
			400	7.5	11.2 *8		12.5	11.2	7.5						
			415							100	12.5	10	7.5		
			440	7.5	11.2 *8	7.5 *17/6 *18				100	7.5	7.5	7.5	7.5*18/11.2*17	
		2, 3, 4	500												
			690												
IEC/EN 60947-2 Direct current T=I/R≤5ms for all series, except S280 UC and S800S-UC, where T=I/R<15ms	Icu	1, 1P+N	24	20											
			60	10	10		15	10	10						
			72							25	25	25	25		
			125												
			220			10									
			250												
		2	48	20											
			125	10	10		15	10	10	25	25	25	25		
			250												
			440			10									
			500												
			800												
		3,4	375												
			500												
			750												
			1200												

*1 only up to 40 A; 10 kA up to 50/63 A
*2 only for "D" characteristic
*3 values are not for all rated currents
*4 600 V DC for 100, 125 A
*5 1000 V DC for 100, 125 A
*6 3 poles
*7 4 poles
*8 max. values. Detailed values on page 2/12
*9 relevant product standard: E DIN VDE 0645 (based on IEC/EN 60898-1 and IEC/EN 60947-2)
*10 by 250 V DC 1-pole, 600 V 3- and 4-pole
*11 by 600 V DC 2-pole
*12 ≤ 25 A
*13 > 25 A
*14 char. B, C
*15 only 2 poles (connection in series)
*16 UL 1077 only
*17 ≤ 40 A
*18 > 40 A
*19 ≤ 35 A
*20 10-80 A

Miniature circuit-breakers

Selection table



	SU 200 M				SU 200 MR	S 200 UDC	S200CT	SN 201 L	S200CL	SN 201	S200C	SN 201 M	S200CM	S200 80-100A
	C,Z	K	C,Z	K	K	K,Z	C	B,C	B,C	B,C,D	B,C	B,C	B,C	B,C
	0.2 ≤ In ≤ 40	0.2 ≤ In ≤ 35	50 ≤ In ≤ 63	40 ≤ In ≤ 63	0.2 ≤ In ≤ 63	1 ≤ In ≤ 63	2 ≤ In ≤ 40	2 ≤ In ≤ 40	2 ≤ In ≤ 40	2 ≤ In ≤ 40	2 ≤ In ≤ 40	2 ≤ In ≤ 40	2 ≤ In ≤ 32	80 ≤ In ≤ 100
							3	4.5	4.5	6	6	10	10	6
														20
	15	15	15	15	15									6
														20
	15	15	15	15	15									6
														10
	11.25	11.25	7.5	7.5										6
					7.5*18/11.2*17									10
	11.25	11.25	7.5	7.5										6
					7.5*18/11.2*17									
	15	15	10	10										
	15	15	10	10										

Miniature circuit-breakers

Selection table

NEW









Series				S 200	S 200 M	S 200 M UC	S 200 P			S 300 P			S 200 MR	S 200 S
Characteristics				B,C,D, K,Z	B,C,D, K,Z	B,C, K, Z	B,C,D, K,Z	B,C,D, K,Z	B,C,D, K,Z	B,C,D, K,Z	B,C,D, K,Z	B,C,D, K,Z	K	B,C
Rated current [A]				0.5 ≤ In ≤ 63	0.5 ≤ In ≤ 63	0.2 ≤ In ≤ 63	0.2 ≤ In ≤ 25	32 ≤ In ≤ 40	50 ≤ In ≤ 63	0.2 ≤ In ≤ 25	32 ≤ In ≤ 40	50 ≤ In ≤ 63	0.2 ≤ In ≤ 63	6 ≤ In ≤ 20
IEC/EN 60947-2 Direct current T=I/R≤5ms for all series, except S280 UC and S800S-UC, where T=I/R<15ms	Ics	1, 1P+N	24	20										
			60	10	10		15	10	10					
			72							12.5	10	7.5		
			125											
			220			10								
			250											
		2	48	20										
			125	10	10		15	10	10	12.5	10	7.5		
			250											
			440			10								
			500											
			800											
		3,4	375											
			500											
			750											
			1200											
UL 1077/ C22.2 No 235 Alternating current	Int. cap.	1, 1P+N	120	10 *16			10	10	10	10	10	10		
			240					10	10	10	10	10		
			277	6 *16	6	6	10	10	10	10	10	10	10	
		2, 3, 4	240	10 *16			10	10	10	10	10	10		
			480 Y/277	6 *16	6	6	10	6	6	10	10	10		
UL 1077/ C22.2 No 235 Direct current	Int. cap.	1, 1P+N	60	10 *16	10					10	10	10		
			125											
			250			10								
		2, 3, 4	125		10					10	10	10		
			250											
			500			10								
UL 489/ C22.2 No 5 Alternating current	Int. cap.	1	240											
			277											
		2, 3, 4	240											
			480 Y/277											
UL 489/ C22.2 No 5 Direct current	Int. cap.	1	48											
			60											
			125											
		2	96											
			125											
			250											

*1 only up to 40 A; 10 kA up to 50/63 A
*2 only for "D" characteristic
*3 values are not for all rated currents
*4 600 V DC for 100, 125 A
*5 1000 V DC for 100, 125 A
*6 3 poles
*7 4 poles
*8 max. values. Detailed values on page 2/12
*9 relevant product standard: E DIN VDE 0645 (based on IEC/EN 60898-1 and IEC/EN 60947-2)
*10 by 250 V DC 1-pole, 600 V 3- and 4-pole
*11 by 600 V DC 2-pole
*12 ≤ 25 A
*13 > 25 A
*14 char. B, C
*15 only 2 poles (connection in series)
*16 UL 1077 only
*17 ≤ 40 A
*18 > 40 A
*19 ≤ 35 A
*20 10-80 A

Miniature circuit-breakers

Selection table



	SU 200 M			SU 200 MR	S 200 UDC	S200CT	SN 201 L	S200CL	SN 201	S200C	SN 201 M	S200CM	S200 80-100A
	C,Z	K	C,Z	K	K	K,Z	C	B,C	B,C	B,C,D	B,C	B,C	B,C	B,C
	0.2 ≤ In ≤ 40	0.2 ≤ In ≤ 35	50 ≤ In ≤ 63	40 ≤ In ≤ 63	0.2 ≤ In ≤ 63	1 ≤ In ≤ 63	2 ≤ In ≤ 40	2 ≤ In ≤ 40	2 ≤ In ≤ 40	2 ≤ In ≤ 40	2 ≤ In ≤ 40	2 ≤ In ≤ 40	2 ≤ In ≤ 32	80 ≤ In ≤ 100
	15	15	10	10										
	15	15	10	10										
			10	10	10									
	10	10			10 *19									
			10	10	10									
	10	10			10 *19									
	10	10	10	10										
						14								
						14 *17								
	10	10	10	10										
						14 *15								
						14 *15 *17								

High performance circuit-breakers

Selection table






Series				S 750 DR	S800S					S800N	S800C
Characteristics				E selective, K selective	B,C,D	K	KM	UCB	UCK	B,C,D	B,C,D,K
Rated current	[A]			16 ≤ In ≤ 100	0.5 ≤ In ≤ 125	0.5 ≤ In ≤ 125	20 ≤ In ≤ 80	0.5 ≤ In ≤ 125	0.5 ≤ In ≤ 125	6 ≤ In ≤ 125	10 ≤ In ≤ 125
Breaking capacity	[kA]										
Reference standard		Nr. poles	Ue[V]								
IEC/EN 60898	Icn		230/400		25 *20					20 *20	15 *23
IEC/EN 60947-2 Alternating current	Icu	1, 1P+N	133								
			230	25							
			240		50	50	50 *6			36	25
			253								
			254		30	30	30 *6			20	15
			289		15 (up to 80 A) 10 (100...125 A)	15 (up to 80 A) 10 (100...125 A)				10	
			400		6 (up to 80 A) 4.5 (100...125 A)	6 (up to 80 A) 4.5 (100...125 A)	6 *6			4.5	
			580								
		2, 3, 4	230								
			400	25							
			415		50	50	50 *6			36	25
			440		30	30	30 *6			20	15
			500		15 (up to 80 A) 10 (100...125 A)	15 (up to 80 A) 10 (100...125 A)					
			580							10	
			690		6 (up to 80 A) 4.5 (100...125 A)	6 (up to 80 A) 4.5 (100...125 A)				4.5	
			1000								
	Ics	1, 1P+N	133								
			230	12.5							
			240		40	40				30	18
			253								
			254		22.5 (up to 80 A) 15 (100...125 A)	22.5 (up to 80 A) 15 (100...125 A)	22.5			15 (up to 80 A) 10 (100...125 A	10
			289		11 (up to 80 A) 5 (100...125 A)	11 (up to 80 A) 5 (100...125 A)				8 (up to 80 A) 5 (100...125 A	
			400		4 (up to 80 A) 3 (100 ... 125 A)	4 (up to 80 A) 3 (100 ... 125 A)	4			3	
			580								
		2, 3, 4	230								
			400	12.5	40	40					
			415				40 *6			30	18
			440		22.5 (up to 80 A) 15 (100 ... 125 A)	22.5 (up to 80 A) 15 (100 ... 125 A)					15
			500		11 (up to 80 A) 5 (100...125 A)					8 (up to 80 A) 5 (100...125 A)	
			690		4 *3	4 *3	4			3	
			1000								

*1 only up to 40 A; 10 kA up to 50/63 A
*2 only for "D" characteristic
*3 values are not for all rated currents
*5 1500 V DC for 4P
*6 3 poles
*7 4 poles
*8 max. values. Detailed values on page 2/12
*9 relevant product standard: E DIN VDE 0645 (based on IEC/EN 60898-1 and IEC/EN 60947-2)
*10 by 250 V DC 1-pole, 600 V 3- and 4-pole
*11 by 600 V DC 2-pole
*12 ≤ 25 A

High performance circuit-breakers
Selection table








S800B	S800HV	S800U	S804U-UCZ	S804U-PVS	S800PV-SP
B, C, D, K	C, K	Z, K	UCZ	PVS	PV-SP
32 ≤ In ≤ 125	C: 10 ≤ In ≤ 32 K: 0.5 ≤ In ≤ 125	10 ≤ In ≤ 100	10-80	5	5 ≤ In ≤ 125
10 *23					
16					
		30			
	1.5 (0.5 … 5 A), 4 (6 … 63 A) 3 (80 … 125 A)				
16					
		50			
	1.5 (0.5 … 5 A) 4 (6 … 63 A) 3 (80 … 125 A)				
10					
		25			
	1.5 (0.5 … 5 A) 2.5 (6 … 63 A) 2 (80 … 125 A)				
10					
		40			
	1.5 (0.5 … 5 A) 2.5 (6 … 63 A) 2 (80 … 125 A)				

*13 > 25 A
*14 char. B, C
*15 only 2 poles (connection in series)
*16 UL 1077 only
*17 ≤ 40 A
*18 > 40 A
*19 ≤ 35 A
*20 10-80 A
*21 for S804U-UCZ only
*22 for S804U-PVS only
*23 D125 only IEC/EN60947-2

High performance circuit-breakers

Selection table






Series				S 750 DR	S800S					S800N	S800C
Characteristics				E selective, K selective	B,C,D	K	KM	UCB	UCK	B,C,D	B,C,D,K
Rated current	[A]			16 ≤ In ≤ 100	0.5 ≤ In ≤ 125	0.5 ≤ In ≤ 125	20 ≤ In ≤ 80	0.5 ≤ In ≤ 125	0.5 ≤ In ≤ 125	6 ≤ In ≤ 125	10 ≤ In ≤ 125
Breaking capacity	[kA]										
Reference standard		Nr. poles	Ue[V]								
IEC/EN 60947-2 Direct current T=I/R≤5ms for all series, except S280 UC and S800S-UC, where T=I/R<15ms	Icu	1, 1P+N	24								
			60								
			75								
			125		30	30				20	10
			220								
			250					50	50		
		2	48								
			125								
			150								
			250		30	30				20	10
			440								
			500					50	50		
			800								
		3,4	225								
			300								
			375		30 *6	30 *6	30 *6			20 *6	10 *6
			500		30 *7	30 *7				20 *7	10 *7
			750					50 *6 50 (63 ... 125 A) *7	50 *6 50 (63 ... 125 A) *7		
			1000					50 (10 ... 50 A) *7	50 (10 ... 50 A) *7		
			1200								

*1 only up to 40 A; 10 kA up to 50/63 A
*2 only for "D" characteristic
*3 values are not for all rated currents
*5 1500 V DC for 4P
*6 3 poles
*7 4 poles
*8 max. values. Detailed values on page 2/12
*9 relevant product standard: E DIN VDE 0645 (based on IEC/EN 60898-1 and IEC/EN 60947-2)
*10 by 250 V DC 1-pole, 600 V 3- and 4-pole
*11 by 600 V DC 2-pole
*12 ≤ 25 A
*13 > 25 A
*14 char. B, C
*15 only 2 poles (connection in series)
*16 UL 1077 only
*17 ≤ 40 A
*18 > 40 A
*19 ≤ 35 A
*20 10-80 A
*21 for S804U-UCZ only
*22 for S804U-PVS only

High performance circuit-breakers

Selection table








	S800B	S800HV	S800U	S804U-UCZ	S804U-PVS	S800PV-SP
	B, C, D, K	C, K	Z, K	UCZ	PVS	PV-SP
	32 ≤ In ≤ 125	C: 10 ≤ In ≤ 32 K: 0.5 ≤ In ≤ 125	10 ≤ In ≤ 100	10-80	5	5 ≤ In ≤ 125
	10					
	10					
						5
	10 *6					
	10 *7					
						5 *5

High performance circuit-breakers

Selection table






Series				S 750 DR	S800S					S800N	S800C
Characteristics				E selective, K selective	B, C, D	K	KM	UCB	UCK	B, C, D	B, C, D, K
Rated current	[A]			16 ≤ In ≤ 100	0.5 ≤ In ≤ 125	0.5 ≤ In ≤ 125	20 ≤ In ≤ 80	0.5 ≤ In ≤ 125	0.5 ≤ In ≤ 125	6 ≤ In ≤ 125	10 ≤ In ≤ 125
IEC/EN 60947-2 Direct current T=I/R≤5ms for all series, except S280 UC and S800S-UC, where T=I/R<15ms	Ics	1, 1P+N	24								
			60								
			125		30	30				20	10
			220								
			250					50	50		
		2	48								
			125								
			250		30	30				20	10
			440								
			500					50	50		
			800								
		3,4	375		30 *6	30 *6	30 *6			20 *6	10 *6
			500		30 *7	30 *7				20 *7	10 *7
			750					50 *6 50 (63 ... 125 A) *7	50 *6 50 (63 ... 125 A) *7		
			1000					50 (10 ... 50 A) *7	50 (10 ... 50 A) *7		
			1200								
UL 1077/ C22.2 No 235 Alternating current	Int. cap.	1, 1P+N	120								
			240		30 (0.5...63 A)	30 (0.5...63 A)					20 (≤ 100 A)
			277		14 (0.5...63 A)	14 (0.5...63 A)					
			347		6 (0.5...63 A)	6 (0.5...63 A)					10 (≤ 100 A)
		2, 3, 4	240								
			480 Y/277		14 (0.5... 63 A) *27	14 (0.5... 63 A) *27					10 (≤100 A)
			600Y/347		6 (0.5...63 A)	6 (0.5...63 A)					
UL 1077/ C22.2 No 235 Direct current	Int. cap.	1, 1P+N	60								
			125								10 (≤ 100 A)
			250								
		2, 3, 4	125								
			250								10 (2P, ≤ 100 A)
			375								10 (3P, ≤ 100 A)
			500								10 (4P, ≤ 100 A)
UL 489/ C22.2 No 5 Alternating current	Int. cap.	1	240								
			277								
		2, 3, 4	240								
			480 Y/277								
UL 489/ C22.2 No 5 Direct current	Int. cap.	1	60								
		2	125								
		4	600								
UL489B Direct current		4	1000								

*1 only up to 40 A; 10 kA up to 50/63 A
*2 only for "D" characteristic
*3 values are not for all rated currents
*5 1500 V DC for 4P
*6 3 poles
*7 4 poles
*8 max. values. Detailed values on page 2/12
*9 relevant product standard: E DIN VDE 0645 (based on IEC/EN 60898-1 and IEC/EN 60947-2)
*10 by 250 V DC 1-pole, 600 V 3- and 4-pole
*11 by 600 V DC 2-pole
*12 ≤ 25 A

High performance circuit-breakers

Selection table







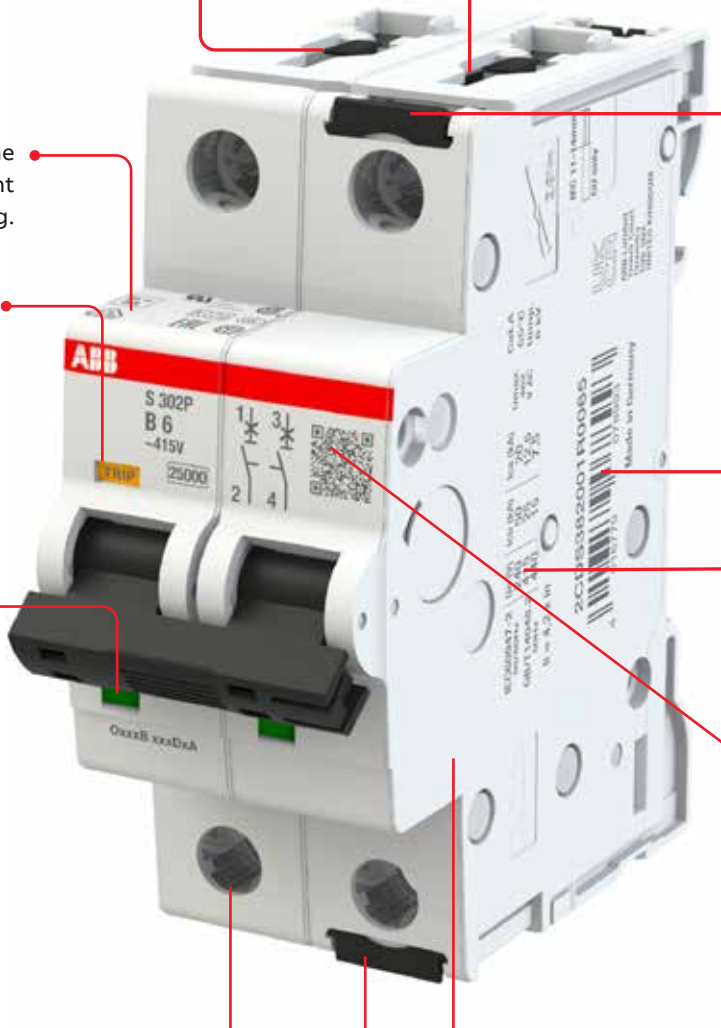

	S800B	S800HV	S800U	S804U-UCZ	S804U-PVS	S800PV-SP
	B, C, D, K	C, K	Z, K	UCZ	PVS	PV-SP
	32 ≤ In ≤ 125	C: 10 ≤ In ≤ 32 K: 6 ≤ In ≤ 125	10 ≤ In ≤ 100	10-80	5	5 ≤ In ≤ 125
						5
						5 *5
		15 (3P, 10 ... 32 A) *28				
			30			
			50			
				10		
					3	

*13 > 25 A
*15 only 2 poles (connection in series)
*16 UL 1077 only
*17 ≤ 40 A
*18 > 40 A
*19 ≤ 35 A
*20 10-80 A
*23 by 75V DC 1-pole
*24 by 150V DC 2-pole
*25 by 225V DC 3-pole
*26 by 300V DC 4-pole
*27 certification 50A ongoing
*28 3P, 10 ... 32 A - only valid with XT2L 125 TMF 35-400

MCB S 300. The next generation of line protection

NEW

The new dimension in efficency and power



IP20 - finger safety.

Twin terminal for separate feeding of busbar and conductor.

Dual DIN-Rail release for easy mounting even whith busbars attached.

Easy identification of the product and highl resistant laser marking.

Quick identification thanks to laser printed EAN marking.

Trip indicator for easy trip identification on site.

Contact position indication: visualization of the contact position, independent from the toggle position.

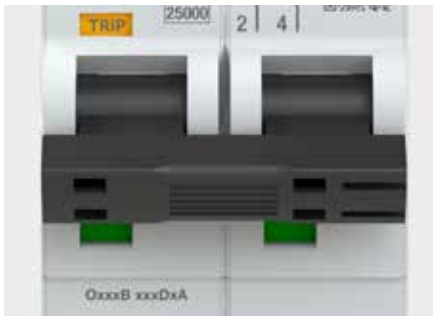
Save your time – all important data available right away.

QR-Code for direct internet access to all Product data/ files.

Captive screws: don't loose what's important for you.

Dual DIN-Rail release for easy mounting.

Whatever your application need is applicable with a wide range of accessories.



Contact position indication
All System pro M compact® MCBs are suited with a contact position indication (CPI) on the toggle. You can easily identify, if the MCB is in the ON or the OFF position – easy and safe maintenance work is possible.
The green/red window indicates the real position of the contacts independently of the toggle position.



Approvals printed on the dome
S 300 MCBs comply to IEC/EN 60898-1 and IEC/EN 60947-2 and carry all relevant approval marks for each market and segment they are destined to. The certification markings are also printed on the dome of the MCB. Thus make it possible to see the markings also in the mounted position. For control and acceptance procedure – certification marks visible on fitted devices on the dome.



Housing material
By using the state-of-the-art housing material, ABB is taking care of the environment. With the latest generation of thermoplastics it's possible to recycle the MCBs – especially the thermoplastic housing-material can be re-used. By using the latest generation of thermoplastics the material stability of all System pro M compact® MCBs is improved. S 300 MCBs are 100% free of halogens – no environmental pollution.



Laser printing
All printings of the S 300 MCBs, like the approvals on the dome and the product identification, are printed by a laser. The laser printing ensures a friction, scratch and solvent resistant marking on the MCBs. Easy identification of the products in case of maintenance or replacements due to safe laser printing.



IP 20 - finger safe terminals
The System pro M compact® MCB's are equiped with 35 mm² + 10 mm² cylinder lift twin terminals, a well proven and reliable technology - designed for sopisticated industrial use. The cross wiring can easily be done by inserting the System pro M compact® busbars into the rear terminal part and then the incoming wires into the front part of the terminal.



Trip indicator
The trip indicator will signalize tripping events of the MCB directly on site.
So you can directly identify if the MCB was tripped by e.g. short circuit, overload, shunt trip, etc. or switched Off manually.



QR-Code
The QR-Code will give you direct access to all product related data, certificates and documents.



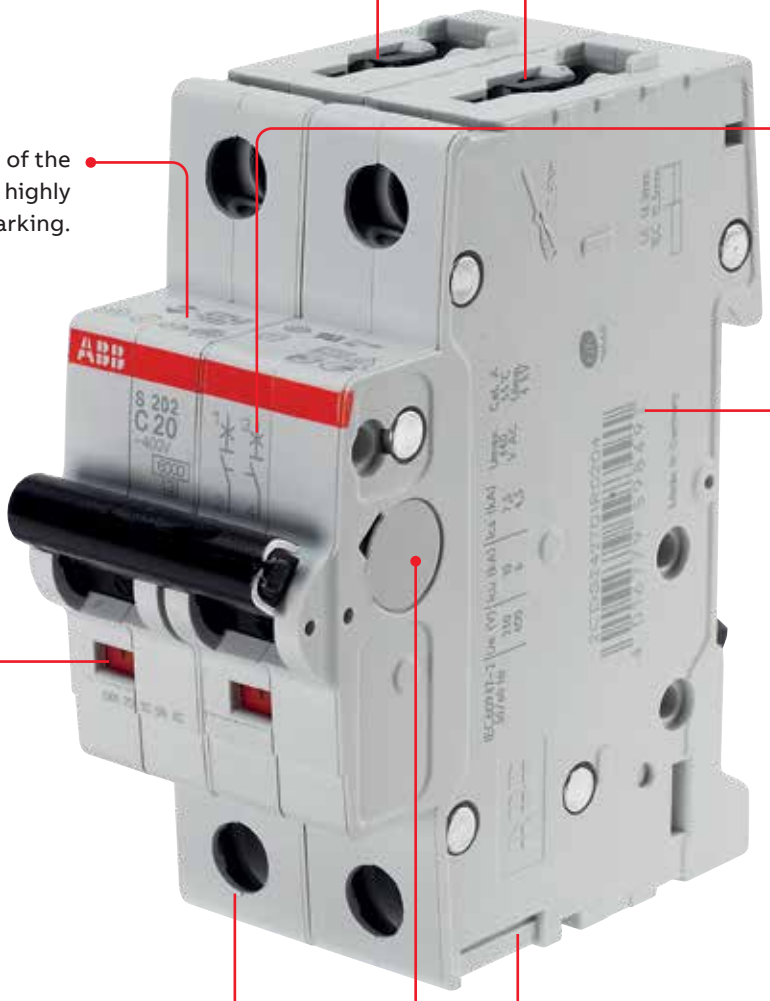
Dual DIN-Rail Release
With the new Dual DIN-Rail Release the toolless installation and uninstallation will be much faster and easier, even with already attached busbars.



Improved performance
The new level of strong electrical performance ensures high breaking capacity of 25kA and improved energy efficency for all kinds of high performance applictions.

MCB S 200. The details make the difference

A range designed to ensure efficiency and protection



IP20 - finger safety.

Twin terminal for separate feeding of busbar and conductor.

Save your time – all important data available right away.

Easy identification of the product and highly resistant laser marking.

Quick identification thanks to laser printed EAN marking.

Contact position indication: visualization of the contact position, independent from the toggle position.

Captive screws: don't loose what's important for you.

Whatever your application need is applicable with a wide range of accessories.



Contact position indication
All System pro M compact® MCBs are suited with a contact position indication (CPI) on the toggle. You can easily identify, if the MCB is in the ON or the OFF position – easy and safe maintenance work is possible.
The green/red window indicates the real position of the contacts independently of the toggle position.



Approvals printed on the dome
S 200 MCBs comply to IEC/EN 60898-1 and IEC/EN 60947-2 and carry all relevant approval marks for each market and segment they are destined to. The certification markings are also printed on the dome of the MCB. Thus make it possible to see the markings also in the mounted position. For control and acceptance procedure – certification marks visible on fitted devices on the dome.



Housing material
By using the state-of-the-art housing material, ABB is taking care of the environment. With the latest generation of thermoplastics it's possible to recycle the MCBs – especially the thermoplastic housing-material can be re-used. By using the latest generation of thermoplastics the material stability of all System pro M compact® MCBs is improved. S200 are 100% free of halogens – no environmental pollution.



Laser printing
All printings of the S 200 and S 200 M MCBs, like the approvals on the dome and the product identification, are printed by a laser. The laser printing ensures a friction, scratch and solvent resistant marking on the MCBs.
Easy identification of the products in case of maintenance or replacements due to safe laser printing.



Screwless terminals
With its unique terminal screwless technology the S 200 S provides maximum flexibility in usage of cables. The screwless load side terminal enables fast installation. High forces in the screwless terminal safe time for re-tightening after transport of the assembled enclosure. If the wiring has to be changed only a soft push on the lever is required. S 200 S provides the highest standard of safety for installer. IP20 / IPXXB (finger safe) highest standard of touch protection.



IP 20 - finger safe terminals
The System pro M compact® MCB's are equiped with 35 mm² + 10 mm² cylinder lift twin terminals, a well proven and reliable technology - designed for sopisticated industrial use.
The cross wiring can easily be done by inserting the System pro M compact® busbars into the rear terminal part and then the incoming wires into the front part of the terminal.

MCBs

S 200 / S 300 technical features



S 200



S 300

			S 200	S 200 M
General Data	Standards		IEC/EN 60898-1, IEC/EN 60947-2	IEC/EN 60898-1, IEC/EN 60947-2
			UL 1077	UL 1077, CSA 22.2 No. 235
	Poles		1P, 2P, 3P, 4P, 1P+N, 3P+N	
	Tripping characteristics		B, C, D, K, Z	
	Rated current I_n	A	0.5…63 A	
	Rated frequency f	Hz	50 / 60 Hz	
	Rated insulation voltage U_i acc. to IEC/EN 60664-1	V	440 V AC (phase to phase)	
	Overvoltage category		III	
	Pollution degree		3	
Data acc. to IEC/EN 60898-1 (except S 200 M UC data acc. to IEC/EN 60898-2)	Rated operational voltage U_n	V	1P: 230/400 V AC; 1P+N: 230 V AC ; 2...4P: 400 V AC; 3P+N: 400 V AC	
	Max. power frequency recovery voltage (U_{max})	V	1P: 253 V AC; 1P+N: 253 V AC; 2P: 440 V AC; 3...4P: 440 V AC; 3P+N: 440 V AC; 1P: 72 V DC; 2P: 125 V DC	
	Min. operating voltage	V	12 V AC - 12 V DC	
	Rated short-circuit capacity I_{cn}	kA	6 kA	10 kA
	Energy limiting class (B, C up to 40 A)		3	
	Rated impulse withstand voltage Uimp. (1.2/50µs)	kV	4 kV (test voltage 6.2 kV at sea level, 5 kV at 2,000 m)	
	Dielectric test voltage	kV	2 kV (50 / 60Hz, 1 min.)	
	Reference temperature for tripping characteristics	°C	B, C, D: 30°C	
	Electrical endurance	ops.	In < 32A: 20,000 ops (AC), In ≥ 32A: 10,000 ops. (AC); 1,000 ops. (DC); (1 cycle 2s - ON, 13s - OFF, In ≤ 32A), (1 cycle 2s - ON, 28s - OFF, In > 32A)	

Note:
* Only acc. to IEC/EN 60898-1

MCBs

S 200 / S 300 technical features

S 200 M UC	S 200 P	S 300 P	S 200 MR	S 200 S	SU 200 M	SU 200 MR	S 200 UDC
IEC/EN 60898-2, IEC/EN 60947-2	IEC/EN 60898-1, IEC/EN 60947-2	IEC/EN 60898-1, IEC/EN 60947-2	IEC/EN 60947-2	IEC/EN 60898-1	IEC/EN 60947-2	IEC/EN 60947-2	
UL 1077, CSA 22.2 No. 235	UL 1077, CSA 22.2 No. 235	UL 1077, CSA 22.2 No. 235	UL 1077, CSA 22.2 No. 235		UL 489, CSA22.2 No.5	UL 489, CSA22.2 No.5	UL 489
1P, 2P, 3P, 4P	1P, 2P, 3P, 4P, 1P+N, 3P+N	1P, 2P, 3P, 4P, 1+N, 3+N	1P, 2P, 3P, 4P	1P, 3P	1P, 2P, 3P, 4P	1P, 2P, 3P, 4P	1P, 2P
B, C, K, Z	B, C, D, K, Z	B, C, D, K, Z	K	B, C	C, K, Z	K	
0.2…63 A				6…20 A	0.2…63 A 0.2…25 A	0.2…63 A	1…63 A
0 / 50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz				DC
440 V AC (phase to phase)							
							--
3							--
1P: 230 V AC, 220 V DC 2P: 400 V AC, 440 V DC 3…4P: 400 V AC*		1P: 1+N: 240 V AC, 72 V DC 2P: 415 V AC, 125 V DC 3…4P: 3+N 415 V AC		1P: 230 V AC, 3P: 440 V AC	--		
1P: 253 V AC, 250 V DC 2P: 440 V AC, 500 V DC 3…4P: 440 V AC*		1P: 1+N: 264 V AC, 72 V DC 3…4P: 3+N: 462 V AC 125 V DC		1P: 253 V AC, 3P: 440 V AC	--		
				12 V AC	--		
10 kA	≤ 25 A: 25 kA > 25 A: 15 kA	≤ 25 A: 25 kA ≤ 32-40 A: 20 kA > 40 A: 15 kA		6 kA	--		
					--		
		6 kV	4 kV (test voltage 6.2 kV at sea level, 5 kV at 2,000 m)		--		
					--		
30 °C				B, C: 30 °C	--		
				20,000 ops.	--		

MCBs

S 200 / S 300 technical features



S 200



S 300

			S 200	S 200 M
Data acc. to IEC/EN 60947-2	Rated operational voltage U_e	V	1P: 230 V AC; 1P+N: 230 V AC; 2...4P: 440 V AC; 3P+N: 440 V AC	
	Max. power frequency recovery voltage (U_{max})	V	1P: 253 V AC; 1P+N: 253 V AC; 2P...4P: 462 V AC; 3P+N: 462 V AC; 1P: 72 V DC; 2P: 125 V DC	
	Min. operating voltage	V	12 V AC - 12 V DC	
	Rated ultimate short-circuit breaking capacity I_{cu}	kA	10 kA	15 kA
	Rated service short-circuit breaking capacity I_{cs}	kA	7.5 kA	≤ 40 A: 11.2 kA 50, 63 A: 7.5 kA
	Rated impulse withstand voltage Uimp. (1.2/50µs)	kV	4 kV (test voltage 6.2 kV at sea level, 5 kV at 2,000 m)	
	Dielectric test voltage	kV	2 kV (50 / 60Hz, 1 min.)	
	Reference temperature for tripping characteristics	°C	B, C, D: 55°C; K, Z: 20°C	
	Electrical endurance	ops.	In < 32A: 20,000 ops (AC), In ≥ 32A: 10,000 ops. (AC); 1,000 ops. (DC); (1 cycle 2s - ON, 13s - OFF, In ≤ 32A), (1 cyle 2s - ON, 28s - OFF, In > 32A)	

MCBs

S 200 / S 300 technical features

S 200 M UC	S 200 P	S 300 P	S 200 MR	S 200 S	SU 200 M	SU 200 MR	S 200 UDC
1P: 253 V AC, 220 V DC 2...4P: 440 V AC, 440 V DC	1P: 230 V AC; 1P+N: 230 V AC; 2...4P: 400 V AC; 3P+N: 400 V AC	1P: 240 V AC; 1P+N: 240 V AC; 2...4P: 415 V AC; 3P+N: 415 V AC	1P: 230 V AC 2...4P: 400 V AC		1P: 230 V AC 2...4P: 400 V AC	1P: 230 V AC 2...4P: 400 V AC	--
1P: 266 V AC, 250 V DC 2...4P: 462 V AC, 500 V DC	1P: 253 V AC; 1P+N: 253 V AC; 2P...4P: 440 V AC; 3P+N: 440 V AC; 1P: 72 V DC; 2P: 125 V DC	1P: 264 V AC; 1P+N: 264 V AC; 2P...4P: 462 V AC; 3P+N: 462 V AC; 1P: 72 V DC; 2P: 125 V DC	1P: 253 V AC 2...4P: 440 V AC		1P: 253/440 V AC; 2...4P: 440 V AC	1P: 253 V AC 2...4P: 440 V AC	--
			12 V AC		12 V AC		--
≤ 40 A: 10 kA AC; 10 kA DC > 40 A: 6 kA AC; 10 kA DC	≤ 25 A: 25 kA ≥ 32 A: 15 kA	25kA	15 kA		10 kA	15 kA	--
≤ 40 A: 7,5 kA AC; 10 kA DC > 40 A: 6 kA(AC; 10 kA DC	≤ 25 A: 12.5 kA ≤ 32…40 A: 11.2 kA > 50, 63 A: 7.5 kA	≤ 25 A: 12.5 kA ≤ 32…40 A: 10 kA > 40 A: 7.5 kA	≤ 40 A: 11.2 kA; > 40 A: 7.5 kA AC;		7.5 kA	≤ 40 A: 11.2 kA; > 40 A: 7.5 kA (AC);	--
		6 kV	4 kV (test voltage 6.2 kV at sea level, 5 kV at 2,000 m)				--
							--
B, C: 55 °C; K, Z: 20 °C		B,C,D: 55°C; K,Z: 40°C	20 °C		C, K, Z: 20°C	20 °C	--
In < 32A: 20,000 ops (AC), In ≥ 32A: 10,000 ops. (AC); 1,500 ops. (DC);	In < 32A: 20,000 ops (AC), In ≥ 32A: 10,000 ops. (AC); 1,000 ops. (DC); (1 cycle 2s - ON, 13s - OFF, In ≤ 32A), (1 cyle 2s - ON, 28s - OFF, In ≥ 32A)	In < 32A: 20,000 ops (AC), In ≥ 32A: 10,000 ops (AC); 1,500 ops (DC); (1 cycle 2s - ON, 13s - OFF, In ≤ 32A), (1 cyle 2s - ON, 28s - OFF, In ≥ 32A)	In < 25A: 20,000 ops (AC), In ≥ 25A: 10,000 ops. (AC);			In < 25A: 20,000 ops (AC), In ≥ 25A: 10,000 ops. (AC);	--

MCBs

S 200 / S 300 technical features



S 200



S 300

			S 200	S 200 M
Data acc. to UL / CSA	Rated voltage	V	480Y / 277 V AC;	480Y / 277 V AC;
			1P: 60 V DC; 2P…4P: 110 V DC	1P: 60 V DC; 2P…4P: 125 V DC
	Rated interrupting capacity acc. to UL 1077	kA	6 kA AC; 10 kA DC	
	Short-circuit current rating acc. to UL 489		--	
	Application		Suppl. prot. for general use. Application Codes: TC2, OL0, SC: U1	
	Reference temperature for tripping characte-ristics	°C	B, C, D, K, Z: 25°C	
	Electrical endurance	ops.	6,000 ops (AC), 6,000 ops. (DC); 1 cycle (1s - ON, 9s - OFF)	
Mechani-cal Data	Housing		Insulation group II, RAL 7035 fire exposure V2 acc.to UL94	fire exposure V0 acc.to UL94
	Toggle		Insulation group II, black, sealable	
	Contact position indication		Marking on toggle (I ON / 0 OFF), Real CPI (red ON / green OFF)	
	Protection degree acc. to EN 60529		IP20*, IP40 in enclosure with cover	
	Mechanical endurance	ops.	20,000 ops.	
	Shock resistance acc. to IEC/EN 60068-2-27		25 g - 2 shocks - 13 ms	
	Vibration resistance acc. to IEC/EN 60068-2-6		5g - 20 cycles at 5…150…5 Hz with load 0.8In	
	Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30	°C/ RH	28 cycles with 55°C/90-96% and 25°C/95-100%	
	Ambient temperature	°C	-25 … +55°C	
	Storage temperature	°C	-40 … +70°C	

Note:
* Also fulfilling the requirement acc. to the protection degree IPXXB
** Only with accessory: IP20 terminal clip

MCBs

S 200 / S 300 technical features

S 200 M UC	S 200 P	S 300 P	S 200 MR	S 200 S	SU 200 M		SU 200 MR	S 200 UDC
480Y / 277 V AC	480Y / 277 V AC	480Y / 277 V AC	480Y / 277 V AC		240 V AC	480 Y / 277 V AC	1P: ≤ 35 A: 277 V AC; > 35 A: 240 V AC 2...4P: ≤ 35 A: 480 / 277 V AC; > 35 A: 240 V AC	
1P: 250 V DC 2...4P: 500 V DC		1P: 60 V DC 2...4P: 125 V DC	480 / 277 V AC					1P: up to 125 V DC 2P: up to 250 V DC
	≤ 25 A: 10 kA > 25 A: 6 kA	10 kA	10 kA		--			
					10 kA		10 kA	14 kA (UL)
TC1, 0L0, SC: U1	TC2, 0L0, SC: U1	TC2, OL0, SC: U1	Ring tongue terminal, not for general use				Ring tongue terminal, not for general use	
		40 °C	25 °C		C, K, Z: 25 °C		25 °C	
							6,000 ops. (1 cycle 1s - ON, 9s - OFF)	
Insulation group I, RAL 7035 fire exposure V0 acc.to UL94				Insulation group II, RAL 7035 fire exposure V2 acc.to UL94			Insulation group I, RAL 7035 fire exposure V0 acc.to UL94	
					IP20**, IP40 in enclosure with cover			
	30 g - 3 shocks - 11 ms	25 g - 3 shocks - 18 ms	25 g - 2 shocks - 13 ms	25 g - 2 shocks - 13 ms	30 g - 3 shocks - 11 ms		25 g - 2 shocks - 13 ms	
-25 ... +55°C	-25 ... +55°C	-40 ... +70°C	-25 ... +55°C	-25 ... +55°C	-25 ... +55°C		-25 ... +55°C	-25 ... +55°C
-40 ... +70°C	-40 ... +70°C	-50 ... +70°C	-40 ... +70°C	-40 ... +70°C	-40 ... +70°C		-40 ... +70°C	-40 ... +70°C

MCBs

S 200 / S 300 technical features



S 200



S 300

				S 200	S 200 M
Installation	Terminal			Failsafe bi-directional cylinder-lift terminal	
	Cross-section of conductors *1 (top / bottom)	Solid / Stranded	mm²	35 mm² / 35 mm²	
		Flexible	mm²	25 mm² / 25 mm²	
			AWG	18 - 4 AWG	14 - 4 AWG
	Cross-section of busbars (top / bottom)		mm²	10 mm² / 10 mm²	
			AWG	18 - 8 AWG	14 - 8 AWG
	Tightening Torque *2		Nm	2.8 Nm	
			in-lbs.	18 in-lbs.	
	Screwdriver			No. 2 Pozidrive	
	Mounting			On DIN rail 35 mm acc. to EN 60715 by fast clip	
	Mounting position			any	
	Supply			optional	
Dimensions and weight	Mounting dimensions acc. to DIN 43880			Mounting dimension 1	
	Pole dimensions (H x D x W)		mm	88 x 69 x 17.5 mm	
	Pole weight		g	approx. 115 g	
Combination with aux. elements	Auxiliary contact			Yes	Yes
	Signal contact			Yes	Yes
	Shunt trip			Yes	Yes
	Undervoltage release			Yes	Yes
	Motor Operating Device			Yes	Yes
	Integrated auxiliary switch			Yes	Yes

*1 All approvals according to the product standards are carried out with copper conductors.
*2 Nm-values acc. IEC / in-lbs.-values acc. UL
*3 1 ... 4 mm² (rigid or flexible wires without end sleeves); 1 ... 2.5 mm² (flexible wires with end sleeves)

MCBs

S 200 / S 300 technical features

S 200 M UC	S 200 P	S 300 P	S 200 MR	S 200 S	SU 200 M		SU 200 MR	S 200 UDC
			Ring Tongue Terminal	Failsafe bi-directional cylinder-lift terminal			Ring Tongue Terminal	--
	25 mm² / 25 mm²	35 mm² / 35 mm²	25 mm² / 25 mm²	Line side/ bottom: 35mm² Load side/top *3: 1 ... 4 mm² / 1 ... 2.5 mm²	35mm2/35mm2			--
	16 mm² / 16 mm²	25 mm² / 25 mm²	25 mm² / 25 mm²	Line side/ bottom: 35mm² Load side/ top *3: 1 ... 4 mm² / 1 ... 2.5 mm²	35mm2/35mm2			--
	18 - 4 AWG	14 - 4 AWG	18 - 4 AWG				18 - 4 AWG	--
								--
	18 - 8 AWG	14 - 4 AWG	18 - 8 AWG					--
	2.8 Nm							--
	25 in-lbs.	18 in-lbs.	25 in-lbs.					
Please note polarity of device	optional			bottom	optional		top or bottom	Please note polarity of device
					--		Mounting dimension 1	
85 x 69 x 17.5 mm	88 x 69 x 17.5 mm	88 x 69 x 17.5 mm	100 x 69 x 17.5 mm	89 x 69 x 17.5 mm	92 x 71 x 17.5 mm	100 x 71 x 17.5 mm	115 x 69 x 17.5 mm	92 x 71 x 17.5 mm
approx. 125 g	approx. 140 g	approx.124 g	approx. 125 g	approx. 100 g	approx. 140g	approx. 140g	approx. 125 g	
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	No	No	No	No
Yes	Yes	Yes	No	Yes	Yes	No	No	No
Yes	Yes	Yes	No	Yes	No	No	No	No

MCBs

S 200 series B characteristic



S 201



S 202



S 203

S 200 B characteristic

Function: protection and control of the circuits against overloads and short-circuits; protection for people and large length of cables in TN and IT systems.

Applications: residential, commercial and industrial.

Standard: IEC/EN 60898-1, IEC/EN 60947-2

Icn=6 kA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	6	464901	S201-B6	2CDS251001R0065		0.125	10
	10	463805	S201-B10	2CDS251001R0105		0.125	10
	13	465007	S201-B13	2CDS251001R0135		0.125	10
	16	578639	S201-B16	2CDS251001R1165		0.125	10
	20 *1	465106	S201-B20	2CDS251001R0205		0.125	10
	25	465205	S201-B25	2CDS251001R0255		0.125	10
	32 *2	465304	S201-B32	2CDS251001R0325		0.125	10
	40 *3	465403	S201-B40	2CDS251001R0405		0.125	10
	50	550925	S201-B50	2CDS251001R0505		0.125	10
	63	550932	S201-B63	2CDS251001R0635		0.125	10
2	6	466400	S202-B6	2CDS252001R0065		0.250	5
	10	466608	S202-B10	2CDS252001R0105		0.250	5
	13	466707	S202-B13	2CDS252001R0135		0.250	5
	16	466905	S202-B16	2CDS252001R0165		0.250	5
	20	467001	S202-B20	2CDS252001R0205		0.250	5
	25	467100	S202-B25	2CDS252001R0255		0.250	5
	32	467209	S202-B32	2CDS252001R0325		0.250	5
	40	467407	S202-B40	2CDS252001R0405		0.250	5
	50	550949	S202-B50	2CDS252001R0505		0.250	5
	63	550956	S202-B63	2CDS252001R0635		0.250	5
3	6	468602	S203-B6	2CDS253001R0065		0.375	1
	10	468701	S203-B10	2CDS253001R0105		0.375	1
	13	468909	S203-B13	2CDS253001R0135		0.375	1
	16	469005	S203-B16	2CDS253001R0165		0.375	1
	20 *1	469104	S203-B20	2CDS253001R0205		0.375	1
	25	469203	S203-B25	2CDS253001R0255		0.375	1
	32 *2	469302	S203-B32	2CDS253001R0325		0.375	1
	40 *3	469401	S203-B40	2CDS253001R0405		0.375	1
	50	550963	S203-B50	2CDS253001R0505		0.375	1
	63	550970	S203-B63	2CDS253001R0635		0.375	1

*1 suitable for flow-type heaters 12 kW
*2 suitable for flow-type heaters 18 kW
*3 suitable for flow-type heaters 21, 24 and 27 kW

MCBs

S 200 series B characteristic



S 204

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
4	6	528955	S204-B6	2CDS254001R0065		0.500	1
	10	528962	S204-B10	2CDS254001R0105		0.500	1
	13	528979	S204-B13	2CDS254001R0135		0.500	1
	16	528986	S204-B16	2CDS254001R0165		0.500	1
	20	528993	S204-B20	2CDS254001R0205		0.500	1
	25	529006	S204-B25	2CDS254001R0255		0.500	1
	32	529013	S204-B32	2CDS254001R0325		0.500	1
	40	529020	S204-B40	2CDS254001R0405		0.500	1
	50	550987	S204-B50	2CDS254001R0505		0.500	1
	63	550994	S204-B63	2CDS254001R0635		0.500	1

With disconnecting neutral NA



S 201 NA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+NA	6	531580	S201-B6NA	2CDS251103R0065		0.250	5
	10	531597	S201-B10NA	2CDS251103R0105		0.250	5
	13	531603	S201-B13NA	2CDS251103R0135		0.250	5
	16	531610	S201-B16NA	2CDS251103R0165		0.250	5
	20 *1	531627	S201-B20NA	2CDS251103R0205		0.250	5
	25	531634	S201-B25NA	2CDS251103R0255		0.250	5
	32 *2	531641	S201-B32NA	2CDS251103R0325		0.250	5
	40 *3	531658	S201-B40NA	2CDS251103R0405		0.250	5
	50	536158	S201-B50NA	2CDS251103R0505		0.250	5
	63	536141	S201-B63NA	2CDS251103R0635		0.250	5
3+NA	6	532280	S203-B6NA	2CDS253103R0065		0.500	1
	10	532297	S203-B10NA	2CDS253103R0105		0.500	1
	13	532303	S203-B13NA	2CDS253103R0135		0.500	1
	16	532310	S203-B16NA	2CDS253103R0165		0.500	1
	20 *1	532327	S203-B20NA	2CDS253103R0205		0.500	1
	25	532334	S203-B25NA	2CDS253103R0255		0.500	1
	32 *2	532341	S203-B32NA	2CDS253103R0325		0.500	1
	40 *3	532358	S203-B40NA	2CDS253103R0405		0.500	1
	50	536165	S203-B50NA	2CDS253103R0505		0.580	1
	63	536172	S203-B63NA	2CDS253103R0635		0.580	1



S 203 NA

*1 suitable for flow-type heaters 12 kW
*2 suitable for flow-type heaters 18 kW
*3 suitable for flow-type heaters 21, 24 and 27 kW

MCBs

S 200 series C characteristic



S 201



S 202

S 200 C characteristic
Function: protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current.
Applications: residential, commercial and industrial.
Standard: IEC/EN 60898-1, IEC/EN 60947-2
Icn=6 kA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0.5	523295	S201-C0.5	2CDS251001R0984		0.125	10
	1	523318	S201-C1	2CDS251001R0014		0.125	10
	1.6	523301	S201-C1.6	2CDS251001R0974		0.125	10
	2	523325	S201-C2	2CDS251001R0024		0.125	10
	3	523332	S201-C3	2CDS251001R0034		0.125	10
	4	523349	S201-C4	2CDS251001R0044		0.125	10
	6	464000	S201-C6	2CDS251001R0064		0.125	10
	8	464109	S201-C8	2CDS251001R0084		0.125	10
	10	464208	S201-C10	2CDS251001R0104		0.125	10
	13	464307	S201-C13	2CDS251001R0134		0.125	10
	16	464406	S201-C16	2CDS251001R0164		0.125	10
	20 *1	464505	S201-C20	2CDS251001R0204		0.125	10
	25	464604	S201-C25	2CDS251001R0254		0.125	10
	32 *2	464703	S201-C32	2CDS251001R0324		0.125	10
	40 *3	464802	S201-C40	2CDS251001R0404		0.125	10
	50	551007	S201-C50	2CDS251001R0504		0.125	10
	63	551014	S201-C63	2CDS251001R0634		0.125	10
2	0.5	523356	S202-C0.5	2CDS252001R0984		0.250	5
	1	523363	S202-C1	2CDS252001R0014		0.250	5
	1.6	523370	S202-C1.6	2CDS252001R0974		0.250	5
	2	523387	S202-C2	2CDS252001R0024		0.250	5
	3	523394	S202-C3	2CDS252001R0034		0.250	5
	4	523400	S202-C4	2CDS252001R0044		0.250	5
	6	465502	S202-C6	2CDS252001R0064		0.250	5
	8	465601	S202-C8	2CDS252001R0084		0.250	5
	10	465700	S202-C10	2CDS252001R0104		0.250	5
	13	465809	S202-C13	2CDS252001R0134		0.250	5
	16	465908	S202-C16	2CDS252001R0164		0.250	5
	20 *1	466004	S202-C20	2CDS252001R0204		0.250	5
	25	466103	S202-C25	2CDS252001R0254		0.250	5
	32 *2	466202	S202-C32	2CDS252001R0324		0.250	5
	40 *3	466301	S202-C40	2CDS252001R0404		0.250	5
	50	551045	S202-C50	2CDS252001R0504		0.250	5
	63	551052	S202-C63	2CDS252001R0634		0.250	5

*1 suitable for flow-type heaters 12 kW
*2 suitable for flow-type heaters 18 kW
*3 suitable for flow-type heaters 21, 24 and 27 kW

MCBs

S 200 series C characteristic



S 203



S 204

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	1	523424	S203-C1	2CDS253001R0014		0.375	1
	1.6	523431	S203-C1.6	2CDS253001R0974		0.375	1
	2	523448	S203-C2	2CDS253001R0024		0.375	1
	3	523455	S203-C3	2CDS253001R0034		0.375	1
	4	523462	S203-C4	2CDS253001R0044		0.375	1
	6	467506	S203-C6	2CDS253001R0064		0.375	1
	8	467605	S203-C8	2CDS253001R0084		0.375	1
	10	467803	S203-C10	2CDS253001R0104		0.375	1
	13	467902	S203-C13	2CDS253001R0134		0.375	1
	16	468008	S203-C16	2CDS253001R0164		0.375	1
	20 *1	468107	S203-C20	2CDS253001R0204		0.375	1
	25	468206	S203-C25	2CDS253001R0254		0.375	1
	32 *2	468305	S203-C32	2CDS253001R0324		0.375	1
	40 *3	468404	S203-C40	2CDS253001R0404		0.375	1
	50	551069	S203-C50	2CDS253001R0504		0.375	1
	63	551076	S203-C63	2CDS253001R0634		0.375	1
4	0.5	529112	S204-C0.5	2CDS254001R0984		0.500	1
	1	529129	S204-C1	2CDS254001R0014		0.500	1
	1.6	529136	S204-C1.6	2CDS254001R0974		0.500	1
	2	529143	S204-C2	2CDS254001R0024		0.500	1
	3	529150	S204-C3	2CDS254001R0034		0.500	1
	4	529167	S204-C4	2CDS254001R0044		0.500	1
	6	529174	S204-C6	2CDS254001R0064		0.500	1
	8	529181	S204-C8	2CDS254001R0084		0.500	1
	10	529198	S204-C10	2CDS254001R0104		0.500	1
	13	529204	S204-C13	2CDS254001R0134		0.500	1
	16	529211	S204-C16	2CDS254001R0164		0.500	1
	20 *1	529228	S204-C20	2CDS254001R0204		0.500	1
	25	529235	S204-C25	2CDS254001R0254		0.500	1
	32 *2	529242	S204-C32	2CDS254001R0324		0.500	1
	40 *3	529259	S204-C40	2CDS254001R0404		0.500	1
	50	551106	S204-C50	2CDS254001R0504		0.500	1
	63	551113	S204-C63	2CDS254001R0634		0.500	1

*1 suitable for flow-type heaters 12 kW
*2 suitable for flow-type heaters 18 kW
*3 suitable for flow-type heaters 21, 24 and 27 kW

MCBs

S 200 series C characteristic



S 201 NA



S 203 NA

With disconnecting neutral NA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+NA	0.5	531665	S201-C0.5NA	2CDS251103R0984		0.250	5
	1	531672	S201-C1NA	2CDS251103R0014		0.250	5
	1.6	531689	S201-C1.6NA	2CDS251103R0974		0.250	5
	2	531696	S201-C2NA	2CDS251103R0024		0.250	5
	3	531702	S201-C3NA	2CDS251103R0034		0.250	5
	4	531726	S201-C4NA	2CDS251103R0044		0.250	5
	6	531733	S201-C6NA	2CDS251103R0064		0.250	5
	8	531740	S201-C8NA	2CDS251103R0084		0.250	5
	10	531757	S201-C10NA	2CDS251103R0104		0.250	5
	13	531764	S201-C13NA	2CDS251103R0134		0.250	5
	16	531771	S201-C16NA	2CDS251103R0164		0.250	5
	20 *1	531788	S201-C20NA	2CDS251103R0204		0.250	5
	25	531795	S201-C25NA	2CDS251103R0254		0.250	5
	32 *2	531801	S201-C32NA	2CDS251103R0324		0.250	5
	40 *3	531818	S201-C40NA	2CDS251103R0404		0.250	5
	50	551021	S201-C50NA	2CDS251103R0504		0.290	5
	63	551038	S201-C63NA	2CDS251103R0634		0.290	5
3+NA	0.5	532365	S203-C0.5NA	2CDS253103R0984		0.500	1
	1	532372	S203-C1NA	2CDS253103R0014		0.500	1
	1.6	532389	S203-C1.6NA	2CDS253103R0974		0.500	1
	2	532402	S203-C2NA	2CDS253103R0024		0.500	1
	3	532419	S203-C3NA	2CDS253103R0034		0.500	1
	4	532426	S203-C4NA	2CDS253103R0044		0.500	1
	6	532433	S203-C6NA	2CDS253103R0064		0.500	1
	8	532440	S203-C8NA	2CDS253103R0084		0.500	1
	10	532457	S203-C10NA	2CDS253103R0104		0.500	1
	13	532464	S203-C13NA	2CDS253103R0134		0.500	1
	16	532471	S203-C16NA	2CDS253103R0164		0.500	1
	20 *1	532488	S203-C20NA	2CDS253103R0204		0.500	1
	25	532495	S203-C25NA	2CDS253103R0254		0.500	1
	32 *2	532501	S203-C32NA	2CDS253103R0324		0.500	1
	40 *1	532518	S203-C40NA	2CDS253103R0404		0.500	1
	50	551083	S203-C50NA	2CDS253103R0504		0.580	1
	63	551090	S203-C63NA	2CDS253103R0634		0.580	1

*1 suitable for flow-type heaters 12 kW
*2 suitable for flow-type heaters 18 kW
*3 suitable for flow-type heaters 21, 24 and 27 kW

MCBs

S 200 series D characteristic



S 201



S 202

S 200 D characteristic
Function: protection and control of the circuits against overloads and short-circuits; protection for circuits which supply loads with high inrush current at the circuit closing (LV/LV transformers, breakdown lamps).
Applications: residential, commercial and industrial.
Standard: IEC/EN 60898-1, IEC/EN 60947-2
Icn=6 kA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0.5	529938	S201-D0.5	2CDS251001R0981		0.125	10
	1	529945	S201-D1	2CDS251001R0011		0.125	10
	1.6	529952	S201-D1.6	2CDS251001R0971		0.125	10
	2	529969	S201-D2	2CDS251001R0021		0.125	10
	3	529976	S201-D3	2CDS251001R0031		0.125	10
	4	529983	S201-D4	2CDS251001R0041		0.125	10
	6	529990	S201-D6	2CDS251001R0061		0.125	10
	8	530002	S201-D8	2CDS251001R0081		0.125	10
	10	530019	S201-D10	2CDS251001R0101		0.125	10
	13	530026	S201-D13	2CDS251001R0131		0.125	10
	16	530033	S201-D16	2CDS251001R0161		0.125	10
	20 *1	530040	S201-D20	2CDS251001R0201		0.125	10
	25	530057	S201-D25	2CDS251001R0251		0.125	10
	32 *2	530064	S201-D32	2CDS251001R0321		0.125	10
	40 *3	530071	S201-D40	2CDS251001R0401		0.125	10
	50	551991	S201-D50	2CDS251001R0501		0.125	10
	63	552004	S201-D63	2CDS251001R0631		0.125	10
2	0.5	530484	S202-D0.5	2CDS252001R0981		0.250	5
	1	530491	S202-D1	2CDS252001R0011		0.250	5
	1.6	530507	S202-D1.6	2CDS252001R0971		0.250	5
	2	530514	S202-D2	2CDS252001R0021		0.250	5
	3	530521	S202-D3	2CDS252001R0031		0.250	5
	4	530538	S202-D4	2CDS252001R0041		0.250	5
	6	530545	S202-D6	2CDS252001R0061		0.250	5
	8	530552	S202-D8	2CDS252001R0081		0.250	5
	10	530583	S202-D10	2CDS252001R0101		0.250	5
	13	530606	S202-D13	2CDS252001R0131		0.250	5
	16	530613	S202-D16	2CDS252001R0161		0.250	5
	20	530637	S202-D20	2CDS252001R0201		0.250	5
	25	530644	S202-D25	2CDS252001R0251		0.250	5
	32	530651	S202-D32	2CDS252001R0321		0.250	5
	40	530668	S202-D40	2CDS252001R0401		0.250	5
	50	552035	S202-D50	2CDS252001R0501		0.250	5
	63	552042	S202-D63	2CDS252001R0631		0.250	5

*1 suitable for flow-type heaters 12 kW
*2 suitable for flow-type heaters 18 kW
*3 suitable for flow-type heaters 21, 24 and 27 kW

MCBs

S 200 series D characteristic



S 203



S 204

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	0.5	530811	S203-D0.5	2CDS253001R0981		0.375	1
	1	530828	S203-D1	2CDS253001R0011		0.375	1
	1.6	530835	S203-D1.6	2CDS253001R0971		0.375	1
	2	530842	S203-D2	2CDS253001R0021		0.375	1
	3	530859	S203-D3	2CDS253001R0031		0.375	1
	4	530866	S203-D4	2CDS253001R0041		0.375	1
	6	530880	S203-D6	2CDS253001R0061		0.375	1
	8	530897	S203-D8	2CDS253001R0081		0.375	1
	10	530903	S203-D10	2CDS253001R0101		0.375	1
	13	530910	S203-D13	2CDS253001R0131		0.375	1
	16	530927	S203-D16	2CDS253001R0161		0.375	1
	20 *1	530934	S203-D20	2CDS253001R0201		0.375	1
	25	530941	S203-D25	2CDS253001R0251		0.375	1
	32 *2	530958	S203-D32	2CDS253001R0321		0.375	1
	40 *3	530965	S203-D40	2CDS253001R0401		0.375	1
	50	552059	S203-D50	2CDS253001R0501		0.375	1
	63	552066	S203-D63	2CDS253001R0631		0.375	1
4	0.5	531122	S204-D0.5	2CDS254001R0981		0.500	1
	1	531139	S204-D1	2CDS254001R0011		0.500	1
	1.6	531146	S204-D1.6	2CDS254001R0971		0.500	1
	2	531153	S204-D2	2CDS254001R0021		0.500	1
	3	531160	S204-D3	2CDS254001R0031		0.500	1
	4	531177	S204-D4	2CDS254001R0041		0.500	1
	6	531184	S204-D6	2CDS254001R0061		0.500	1
	8	531191	S204-D8	2CDS254001R0081		0.500	1
	10	531207	S204-D10	2CDS254001R0101		0.500	1
	13	531214	S204-D13	2CDS254001R0131		0.500	1
	16	531221	S204-D16	2CDS254001R0161		0.500	1
	20	531238	S204-D20	2CDS254001R0201		0.500	1
	25	531290	S204-D25	2CDS254001R0251		0.500	1
	32	531306	S204-D32	2CDS254001R0321		0.500	1
	40	531313	S204-D40	2CDS254001R0401		0.500	1
	50	552097	S204-D50	2CDS254001R0501		0.500	1
	63	552103	S204-D63	2CDS254001R0631		0.500	1

*1 suitable for flow-type heaters 12 kW
*2 suitable for flow-type heaters 18 kW
*3 suitable for flow-type heaters 21, 24 and 27 kW

MCBs

S 200 series D characteristic



S 201 NA



S 203 NA

With disconnecting neutral NA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+NA	0.5	531979	S201-D0.5NA	2CDS251103R0981		0.250	5
	1	531986	S201-D1NA	2CDS251103R0011		0.250	5
	1.6	531993	S201-D1.6NA	2CDS251103R0971		0.250	5
	2	532006	S201-D2NA	2CDS251103R0021		0.250	5
	3	532013	S201-D3NA	2CDS251103R0031		0.250	5
	4	532020	S201-D4NA	2CDS251103R0041		0.250	5
	6	532037	S201-D6NA	2CDS251103R0061		0.250	5
	8	532044	S201-D8NA	2CDS251103R0081		0.250	5
	10	532051	S201-D10NA	2CDS251103R0101		0.250	5
	13	532068	S201-D13NA	2CDS251103R0131		0.250	5
	16	532099	S201-D16NA	2CDS251103R0161		0.250	5
	20 *1	532105	S201-D20NA	2CDS251103R0201		0.250	5
	25	532112	S201-D25NA	2CDS251103R0251		0.250	5
	32 *2	532129	S201-D32NA	2CDS251103R0321		0.250	5
	40 *3	532136	S201-D40NA	2CDS251103R0401		0.250	5
	50	552011	S201-D50NA	2CDS251103R0501		0.290	5
	63	552028	S201-D63NA	2CDS251103R0631		0.290	5
3+NA	0.5	532761	S203-D0.5NA	2CDS253103R0981		0.500	2
	1	532778	S203-D1NA	2CDS253103R0011		0.500	2
	1.6	532785	S203-D1.6NA	2CDS253103R0971		0.500	2
	2	532792	S203-D2NA	2CDS253103R0021		0.500	2
	3	532808	S203-D3NA	2CDS253103R0031		0.500	2
	4	532815	S203-D4NA	2CDS253103R0041		0.500	2
	6	532822	S203-D6NA	2CDS253103R0061		0.500	2
	8	532839	S203-D8NA	2CDS253103R0081		0.500	2
	10	532846	S203-D10NA	2CDS253103R0101		0.500	2
	13	532860	S203-D13NA	2CDS253103R0131		0.500	2
	16	532877	S203-D16NA	2CDS253103R0161		0.500	2
	20 *1	532884	S203-D20NA	2CDS253103R0201		0.500	2
	25	532891	S203-D25NA	2CDS253103R0251		0.500	2
	32 *2	532907	S203-D32NA	2CDS253103R0321		0.500	2
	40 *3	532914	S203-D40NA	2CDS253103R0401		0.500	2
	50	552073	S203-D50NA	2CDS253103R0501		0.580	2
	63	552080	S203-D63NA	2CDS253103R0631		0.580	2

*1 suitable for flow-type heaters 12 kW
*2 suitable for flow-type heaters 18 kW
*3 suitable for flow-type heaters 21, 24 and 27 kW

MCBs

S 200 series K characteristic



S 201



S 202

S 200 K (power) characteristic
Function: protection and control of the circuits like motors, transformer and auxiliary circuits, against overloads and short-circuits.
Advantages: no nuisance tripping in the case of functional peak currents up to 10xIn, depending on the series; through its highly sensitive thermostatic bimetal trip, the K-type characteristic offers protection to damageable elements in the overcurrent range; it also provides the best protection to cables and lines.
Applications: commercial and industrial.
Standard: IEC/EN 60947-2
Icu=10 kA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0.5	507196	S201-K0.5	2CDS251001R0157		0.125	10
	1	507202	S201-K1	2CDS251001R0217		0.125	10
	1.6	507219	S201-K1.6	2CDS251001R0257		0.125	10
	2	507226	S201-K2	2CDS251001R0277		0.125	10
	3	507233	S201-K3	2CDS251001R0317		0.125	10
	4	507240	S201-K4	2CDS251001R0337		0.125	10
	6	507257	S201-K6	2CDS251001R0377		0.125	10
	8	507264	S201-K8	2CDS251001R0407		0.125	10
	10	496117	S201-K10	2CDS251001R0427		0.125	10
	13	507271	S201-K13	2CDS251001R0447		0.125	10
	16	496124	S201-K16	2CDS251001R0467		0.125	10
	20	507288	S201-K20	2CDS251001R0487		0.125	10
	25	507295	S201-K25	2CDS251001R0517		0.125	10
	32	496131	S201-K32	2CDS251001R0537		0.125	10
	40	507301	S201-K40	2CDS251001R0557		0.125	10
	50	551120	S201-K50	2CDS251001R0577		0.125	10
	63	551137	S201-K63	2CDS251001R0607		0.125	10
2	0.5	507318	S202-K0.5	2CDS252001R0157		0.250	5
	1	507325	S202-K1	2CDS252001R0217		0.250	5
	1.6	507332	S202-K1.6	2CDS252001R0257		0.250	5
	2	507349	S202-K2	2CDS252001R0277		0.250	5
	3	507356	S202-K3	2CDS252001R0317		0.250	5
	4	507363	S202-K4	2CDS252001R0337		0.250	5
	6	507370	S202-K6	2CDS252001R0377		0.250	5
	8	507387	S202-K8	2CDS252001R0407		0.250	5
	10	507394	S202-K10	2CDS252001R0427		0.250	5
	13	507400	S202-K13	2CDS252001R0447		0.250	5
	16	507417	S202-K16	2CDS252001R0467		0.250	5
	20	507424	S202-K20	2CDS252001R0487		0.250	5
	25	507431	S202-K25	2CDS252001R0517		0.250	5
	32	507448	S202-K32	2CDS252001R0537		0.250	5
	40	507455	S202-K40	2CDS252001R0557		0.250	5
	50	551168	S202-K50	2CDS252001R0577		0.250	5
	63	551175	S202-K63	2CDS252001R0607		0.250	5

*1 suitable for flow-type heaters 12 kW
*2 suitable for flow-type heaters 18 kW
*3 suitable for flow-type heaters 21, 24 and 27 kW

MCBs

S 200 series K characteristic



S 203



S 204

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	0.5	507462	S203-K0.5	2CDS253001R0157		0.375	1
	1	507479	S203-K1	2CDS253001R0217		0.375	1
	1.6	507486	S203-K1.6	2CDS253001R0257		0.375	1
	2	507493	S203-K2	2CDS253001R0277		0.375	1
	3	507509	S203-K3	2CDS253001R0317		0.375	1
	4	507516	S203-K4	2CDS253001R0337		0.375	1
	6	507523	S203-K6	2CDS253001R0377		0.375	1
	8	507530	S203-K8	2CDS253001R0407		0.375	1
	10	496148	S203-K10	2CDS253001R0427		0.375	1
	13	507547	S203-K13	2CDS253001R0447		0.375	1
	16	496155	S203-K16	2CDS253001R0467		0.375	1
	20	507554	S203-K20	2CDS253001R0487		0.375	1
	25	507561	S203-K25	2CDS253001R0517		0.375	1
	32	496162	S203-K32	2CDS253001R0537		0.375	1
	40	507578	S203-K40	2CDS253001R0557		0.375	1
	50	551182	S203-K50	2CDS253001R0577		0.375	1
	63	551199	S203-K63	2CDS253001R0607		0.375	1
4	0.5	529266	S204-K0.5	2CDS254001R0157		0.500	1
	1	529273	S204-K1	2CDS254001R0217		0.500	1
	1.6	529280	S204-K1.6	2CDS254001R0257		0.500	1
	2	529297	S204-K2	2CDS254001R0277		0.500	1
	3	529303	S204-K3	2CDS254001R0317		0.500	1
	4	529310	S204-K4	2CDS254001R0337		0.500	1
	6	529327	S204-K6	2CDS254001R0377		0.500	1
	8	529334	S204-K8	2CDS254001R0407		0.500	1
	10	529341	S204-K10	2CDS254001R0427		0.500	1
	13	529358	S204-K13	2CDS254001R0447		0.500	1
	16	529365	S204-K16	2CDS254001R0467		0.500	1
	20	529372	S204-K20	2CDS254001R0487		0.500	1
	25	529389	S204-K25	2CDS254001R0517		0.500	1
	32	529396	S204-K32	2CDS254001R0537		0.500	1
	40	529402	S204-K40	2CDS254001R0557		0.500	1
	50	551229	S204-K50	2CDS254001R0577		0.500	1
	63	551236	S204-K63	2CDS254001R0607		0.500	1

MCBs

S 200 series K characteristic



S 201 NA



S 203 NA

With disconnecting neutral NA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+NA	0.5	531825	S201-K0.5NA	2CDS251103R0157		0.250	5
	1	531832	S201-K1NA	2CDS251103R0217		0.250	5
	1.6	531849	S201-K1.6NA	2CDS251103R0257		0.250	5
	2	531856	S201-K2NA	2CDS251103R0277		0.250	5
	3	531863	S201-K3NA	2CDS251103R0317		0.250	5
	4	531870	S201-K4NA	2CDS251103R0337		0.250	5
	6	531887	S201-K6NA	2CDS251103R0377		0.250	5
	8	531894	S201-K8NA	2CDS251103R0407		0.250	5
	10	531900	S201-K10NA	2CDS251103R0427		0.250	5
	13	531917	S201-K13NA	2CDS251103R0447		0.250	5
	16	531924	S201-K16NA	2CDS251103R0467		0.250	5
	20	531931	S201-K20NA	2CDS251103R0487		0.250	5
	25	531948	S201-K25NA	2CDS251103R0517		0.250	5
	32	531955	S201-K32NA	2CDS251103R0537		0.250	5
	40	531962	S201-K40NA	2CDS251103R0557		0.250	5
	50	551144	S201-K50NA	2CDS251103R0577		0.250	5
	63	551151	S201-K63NA	2CDS251103R0607		0.250	5
3+NA	0.5	532617	S203-K0.5NA	2CDS253103R0157		0.500	1
	1	532624	S203-K1NA	2CDS253103R0217		0.500	1
	1.6	532631	S203-K1.6NA	2CDS253103R0257		0.500	1
	2	532648	S203-K2NA	2CDS253103R0277		0.500	1
	3	532655	S203-K3NA	2CDS253103R0317		0.500	1
	4	532662	S203-K4NA	2CDS253103R0337		0.500	1
	6	532679	S203-K6NA	2CDS253103R0377		0.500	1
	8	532686	S203-K8NA	2CDS253103R0407		0.500	1
	10	532693	S203-K10NA	2CDS253103R0427		0.500	1
	13	532709	S203-K13NA	2CDS253103R0447		0.500	1
	16	532716	S203-K16NA	2CDS253103R0467		0.500	1
	20	532723	S203-K20NA	2CDS253103R0487		0.500	1
	25	532730	S203-K25NA	2CDS253103R0517		0.500	1
	32	532747	S203-K32NA	2CDS253103R0537		0.500	1
	40	532754	S203-K40NA	2CDS253103R0557		0.500	1
	50	551205	S203-K50NA	2CDS253103R0577		0.500	1
	63	551212	S203-K63NA	2CDS253103R0607		0.500	1

MCBs

S 200 series Z characteristic



S 201



S 202

S 200 Z characteristic
Function: protection and control of the electronic circuits against lower and long duration overloads and short-circuits.
Applications: commercial and industrial.
Standard: IEC/EN 60947-2
Icu=10 kA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0.5	530309	S201-Z0.5	2CDS251001R0158		0.125	10
	1	530330	S201-Z1	2CDS251001R0218		0.125	10
	1.6	530347	S201-Z1.6	2CDS251001R0258		0.125	10
	2	530354	S201-Z2	2CDS251001R0278		0.125	10
	3	530361	S201-Z3	2CDS251001R0318		0.125	10
	4	530378	S201-Z4	2CDS251001R0338		0.125	10
	6	530408	S201-Z6	2CDS251001R0378		0.125	10
	8	530415	S201-Z8	2CDS251001R0408		0.125	10
	10	530422	S201-Z10	2CDS251001R0428		0.125	10
	16	530439	S201-Z16	2CDS251001R0468		0.125	10
	20	530446	S201-Z20	2CDS251001R0488		0.125	10
	25	530453	S201-Z25	2CDS251001R0518		0.125	10
	32	530460	S201-Z32	2CDS251001R0538		0.125	10
	40	530477	S201-Z40	2CDS251001R0558		0.125	10
	50	551915	S201-Z50	2CDS251001R0578		0.125	10
	63	551922	S201-Z63	2CDS251001R0608		0.125	10
2	0.5	530682	S202-Z0.5	2CDS252001R0158		0.250	5
	1	530675	S202-Z1	2CDS252001R0218		0.250	5
	1.6	530699	S202-Z1.6	2CDS252001R0258		0.250	5
	2	530705	S202-Z2	2CDS252001R0278		0.250	5
	3	530712	S202-Z3	2CDS252001R0318		0.250	5
	4	530729	S202-Z4	2CDS252001R0338		0.250	5
	6	530736	S202-Z6	2CDS252001R0378		0.250	5
	8	530743	S202-Z8	2CDS252001R0408		0.250	5
	10	530750	S202-Z10	2CDS252001R0428		0.250	5
	16	530767	S202-Z16	2CDS252001R0468		0.250	5
	20	530774	S202-Z20	2CDS252001R0488		0.250	5
	25	530781	S202-Z25	2CDS252001R0518		0.250	5
	32	530798	S202-Z32	2CDS252001R0538		0.250	5
	40	530804	S202-Z40	2CDS252001R0558		0.250	5
	50	551939	S202-Z50	2CDS252001R0578		0.250	5
	63	551946	S202-Z63	2CDS252001R0608		0.250	5

MCBs

S 200 series Z characteristic



S 203



S 204

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	0.5	530972	S203-Z0.5	2CDS253001R0158		0.375	1
	1	530989	S203-Z1	2CDS253001R0218		0.375	1
	1.6	530996	S203-Z1.6	2CDS253001R0258		0.375	1
	2	531009	S203-Z2	2CDS253001R0278		0.375	1
	3	531016	S203-Z3	2CDS253001R0318		0.375	1
	4	531023	S203-Z4	2CDS253001R0338		0.375	1
	6	531030	S203-Z6	2CDS253001R0378		0.375	1
	8	531047	S203-Z8	2CDS253001R0408		0.375	1
	10	531054	S203-Z10	2CDS253001R0428		0.375	1
	16	531061	S203-Z16	2CDS253001R0468		0.375	1
	20	531078	S203-Z20	2CDS253001R0488		0.375	1
	25	531085	S203-Z25	2CDS253001R0518		0.375	1
	32	531092	S203-Z32	2CDS253001R0538		0.375	1
	40	531108	S203-Z40	2CDS253001R0558		0.375	1
	50	551953	S203-Z50	2CDS253001R0578		0.375	1
	63	551960	S203-Z63	2CDS253001R0608		0.375	1
4	0.5	530248	S204-Z0.5	2CDS254001R0158		0.500	1
	1	531320	S204-Z1	2CDS254001R0218		0.500	1
	1.6	531443	S204-Z1.6	2CDS254001R0258		0.500	1
	2	531436	S204-Z2	2CDS254001R0278		0.500	1
	3	531337	S204-Z3	2CDS254001R0318		0.500	1
	4	531344	S204-Z4	2CDS254001R0338		0.500	1
	6	531351	S204-Z6	2CDS254001R0378		0.500	1
	8	531368	S204-Z8	2CDS254001R0408		0.500	1
	10	531375	S204-Z10	2CDS254001R0428		0.500	1
	16	531382	S204-Z16	2CDS254001R0468		0.500	1
	20	531399	S204-Z20	2CDS254001R0488		0.500	1
	25	531405	S204-Z25	2CDS254001R0518		0.500	1
	32	531412	S204-Z32	2CDS254001R0538		0.500	1
	40	531429	S204-Z40	2CDS254001R0558		0.500	1
	50	551977	S204-Z50	2CDS254001R0578		0.500	1
	63	551984	S204-Z63	2CDS254001R0608		0.500	1

MCBs

S 200 series Z characteristic



S 201 NA



S 203 NA

With disconnecting neutral NA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+NA	0.5	532143	S201-Z0.5NA	2CDS251103R0158		0.260	5
	1	532150	S201-Z1NA	2CDS251103R0218		0.260	5
	1.6	532167	S201-Z1.6NA	2CDS251103R0258		0.260	5
	2	532174	S201-Z2NA	2CDS251103R0278		0.260	5
	3	532181	S201-Z3NA	2CDS251103R0318		0.260	5
	4	532198	S201-Z4NA	2CDS251103R0338		0.260	5
	6	532204	S201-Z6NA	2CDS251103R0378		0.260	5
	8	532211	S201-Z8NA	2CDS251103R0408		0.260	5
	10	532228	S201-Z10NA	2CDS251103R0428		0.260	5
	16	532235	S201-Z16NA	2CDS251103R0468		0.260	5
	20	532242	S201-Z20NA	2CDS251103R0488		0.260	5
	25	532259	S201-Z25NA	2CDS251103R0518		0.260	5
	32	532266	S201-Z32NA	2CDS251103R0538		0.260	5
	40	532273	S201-Z40NA	2CDS251103R0558		0.260	5
	50	552127	S201-Z50NA	2CDS251103R0578		0.320	5
	63	552134	S201-Z63NA	2CDS251103R0608		0.320	5
3+NA	0.5	53292 1	S203-Z0.5NA	2CDS253103R0158		0.520	1
	1	53293 8	S203-Z1NA	2CDS253103R0218		0.520	1
	1.6	53294 5	S203-Z1.6NA	2CDS253103R0258		0.520	1
	2	53295 2	S203-Z2NA	2CDS253103R0278		0.520	1
	3	53297 6	S203-Z3NA	2CDS253103R0318		0.520	1
	4	53298 3	S203-Z4NA	2CDS253103R0338		0.520	1
	6	53299 0	S203-Z6NA	2CDS253103R0378		0.520	1
	8	53300 3	S203-Z8NA	2CDS253103R0408		0.520	1
	10	53301 0	S203-Z10NA	2CDS253103R0428		0.520	1
	16	53302 7	S203-Z16NA	2CDS253103R0468		0.520	1
	20	53305 8	S203-Z20NA	2CDS253103R0488		0.520	1
	25	53306 5	S203-Z25NA	2CDS253103R0518		0.520	1
	32	53307 2	S203-Z32NA	2CDS253103R0538		0.520	1
	40	53308 9	S203-Z40NA	2CDS253103R0558		0.520	1
	50	55214 1	S203-Z50NA	2CDS253103R0578		0.640	1
	63	55216 5	S203-Z63NA	2CDS253103R0608		0.640	1

MCBs

S 200 series M-B characteristic



S 201 M



S 202 M



S 203 M

S 200 M-B characteristic
Function: protection and control of the circuits against overloads and short-circuits; protection for people and large length of cables in TN and IT systems.
Applications: residential, commercial and industrial.
Standard: IEC/EN 60898-1, IEC/EN 60947-2
Icn=10 kA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	6	549424	S201M-B6	2CDS271001R0065		0.125	10
	10	549431	S201M-B10	2CDS271001R0105		0.125	10
	13	549448	S201M-B13	2CDS271001R0135		0.125	10
	16	549455	S201M-B16	2CDS271001R0165		0.125	10
	20 *1	549462	S201M-B20	2CDS271001R0205		0.125	10
	25	549479	S201M-B25	2CDS271001R0255		0.125	10
	32 *2	549486	S201M-B32	2CDS271001R0325		0.125	10
	40 *3	549493	S201M-B40	2CDS271001R0405		0.125	10
	50	543811	S201M-B50	2CDS271001R0505		0.125	10
	63	543828	S201M-B63	2CDS271001R0635		0.125	10
2	6	549585	S202M-B6	2CDS272001R0065		0.250	5
	10	549592	S202M-B10	2CDS272001R0105		0.250	5
	13	549608	S202M-B13	2CDS272001R0135		0.250	5
	16	549615	S202M-B16	2CDS272001R0165		0.250	5
	20	549622	S202M-B20	2CDS272001R0205		0.250	5
	25	549639	S202M-B25	2CDS272001R0255		0.250	5
	32	549646	S202M-B32	2CDS272001R0325		0.250	5
	40	549653	S202M-B40	2CDS272001R0405		0.250	5
	50	543859	S202M-B50	2CDS272001R0505		0.250	5
	63	543866	S202M-B63	2CDS272001R0635		0.250	5
3	6	549660	S203M-B 6	2CDS273001R0065		0.375	1
	10	549677	S203M-B10	2CDS273001R0105		0.375	1
	13	549684	S203M-B13	2CDS273001R0135		0.375	1
	16	549691	S203M-B16	2CDS273001R0165		0.375	1
	20 *1	549707	S203M-B20	2CDS273001R0205		0.375	1
	25	549714	S203M-B25	2CDS273001R0255		0.375	1
	32 *2	549721	S203M-B32	2CDS273001R0325		0.375	1
	40 *3	549738	S203M-B40	2CDS273001R0405		0.375	1
	50	543873	S203M-B50	2CDS273001R0505		0.375	1
	63	543880	S203M-B63	2CDS273001R0635		0.375	1

*1 suitable for flow-type heaters 12 kW
*2 suitable for flow-type heaters 18 kW
*3 suitable for flow-type heaters 21, 24 and 27 kW

MCBs

S 200 series M-B characteristic



S 204 M

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
4	6	549820	S204M-B 6	2CDS274001R0065		0.500	1
	10	549837	S204M-B10	2CDS274001R0105		0.500	1
	13	549844	S204M-B13	2CDS274001R0135		0.500	1
	16	549851	S204M-B16	2CDS274001R0165		0.500	1
	20	549868	S204M-B20	2CDS274001R0205		0.500	1
	25	549875	S204M-B25	2CDS274001R0255		0.500	1
	32	549882	S204M-B32	2CDS274001R0325		0.500	1
	40	549899	S204M-B40	2CDS274001R0405		0.500	1
	50	543910	S204M-B50	2CDS274001R0505		0.500	1
	63	543927	S204M-B63	2CDS274001R0635		0.500	1

With disconnecting neutral NA



S 201 M NA



S 203 M NA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+NA	6	549509	S201M-B6NA	2CDS271103R0065		0.250	5
	10	549516	S201M-B10NA	2CDS271103R0105		0.250	5
	13	549523	S201M-B13NA	2CDS271103R0135		0.250	5
	16	549530	S201M-B16NA	2CDS271103R0165		0.250	5
	20 *1	549547	S201M-B20NA	2CDS271103R0205		0.250	5
	25	549554	S201M-B25NA	2CDS271103R0255		0.250	5
	32 *2	549561	S201M-B32NA	2CDS271103R0325		0.250	5
	40 *3	549578	S201M-B40NA	2CDS271103R0405		0.250	5
	50	543835	S201M-B50NA	2CDS271103R0505		0.250	5
	63	543842	S201M-B63NA	2CDS271103R0635		0.250	5
3+NA	6	549745	S203M-B6NA	2CDS273103R0065		0.500	1
	10	549752	S203M-B10NA	2CDS273103R0105		0.500	1
	13	549769	S203M-B13NA	2CDS273103R0135		0.500	1
	16	549776	S203M-B16NA	2CDS273103R0165		0.500	1
	20 *1	549783	S203M-B20NA	2CDS273103R0205		0.500	1
	25	549790	S203M-B25NA	2CDS273103R0255		0.500	1
	32 *2	549806	S203M-B32NA	2CDS273103R0325		0.500	1
	40 *3	549813	S203M-B40NA	2CDS273103R0405		0.500	1
	50	543897	S203M-B50NA	2CDS273103R0505		0.500	1
	63	543903	S203M-B63NA	2CDS273103R0635		0.580	1

*1 suitable for flow-type heaters 12 kW

*2 suitable for flow-type heaters 18 kW

*3 suitable for flow-type heaters 21, 24 and 27 kW

MCBs

S 200 series M-C characteristic



S 201 M



S 202 M

S 200 M-C characteristic
Function: protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current.
Applications: residential, commercial and industrial.
Standard: IEC/EN 60898-1, IEC/EN 60947-2
Icn=10 kA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0.5	549905	S201M-C0.5	2CDS271001R0984		0.125	10
	1	549929	S201M-C1	2CDS271001R0014		0.125	10
	1.6	549912	S201M-C1.6	2CDS271001R0974		0.125	10
	2	549936	S201M-C2	2CDS271001R0024		0.125	10
	3	549943	S201M-C3	2CDS271001R0034		0.125	10
	4	549950	S201M-C4	2CDS271001R0044		0.125	10
	6	549967	S201M-C6	2CDS271001R0064		0.125	10
	8	549974	S201M-C8	2CDS271001R0084		0.125	10
	10	549981	S201M-C10	2CDS271001R0104		0.125	10
	13	549998	S201M-C13	2CDS271001R0134		0.125	10
	16	550000	S201M-C16	2CDS271001R0164		0.125	10
	20 *1	550017	S201M-C20	2CDS271001R0204		0.125	10
	25	550024	S201M-C25	2CDS271001R0254		0.125	10
	32 *2	550031	S201M-C32	2CDS271001R0324		0.125	10
	40 *3	550048	S201M-C40	2CDS271001R0404		0.125	10
	50	543934	S201M-C50	2CDS271001R0504		0.125	10
	63	543941	S201M-C63	2CDS271001R0634		0.125	10
2	0.5	550208	S202M-C0.5	2CDS272001R0984		0.250	5
	1	550222	S202M-C1	2CDS272001R0014		0.250	5
	1.6	550215	S202M-C1.6	2CDS272001R0974		0.250	5
	2	550239	S202M-C2	2CDS272001R0024		0.250	5
	3	550246	S202M-C3	2CDS272001R0034		0.250	5
	4	550253	S202M-C4	2CDS272001R0044		0.250	5
	6	550260	S202M-C6	2CDS272001R0064		0.250	5
	8	550277	S202M-C8	2CDS272001R0084		0.250	5
	10	550284	S202M-C10	2CDS272001R0104		0.250	5
	13	550291	S202M-C13	2CDS272001R0134		0.250	5
	16	550307	S202M-C16	2CDS272001R0164		0.250	5
	20	550314	S202M-C20	2CDS272001R0204		0.250	5
	25	550321	S202M-C25	2CDS272001R0254		0.250	5
	32	550338	S202M-C32	2CDS272001R0324		0.250	5
	40	550345	S202M-C40	2CDS272001R0404		0.250	5
	50	543972	S202M-C50	2CDS272001R0504		0.250	5
	63	543989	S202M-C63	2CDS272001R0634		0.250	5

*1 suitable for flow-type heaters 12 kW
*2 suitable for flow-type heaters 18 kW
*3 suitable for flow-type heaters 21, 24 and 27 kW

MCBs

S 200 series M-C characteristic



S 203 M



S 204 M

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	0.5	550352	S203M-C0.5	2CDS273001R0984		0.375	1
	1	550376	S203M-C1	2CDS273001R0014		0.375	1
	1.6	550369	S203M-C1.6	2CDS273001R0974		0.375	1
	2	550383	S203M-C2	2CDS273001R0024		0.375	1
	3	550390	S203M-C3	2CDS273001R0034		0.375	1
	4	550406	S203M-C4	2CDS273001R0044		0.375	1
	6	550413	S203M-C6	2CDS273001R0064		0.375	1
	8	550420	S203M-C8	2CDS273001R0084		0.375	1
	10	550437	S203M-C10	2CDS273001R0104		0.375	1
	13	550444	S203M-C13	2CDS273001R0134		0.375	1
	16	550451	S203M-C16	2CDS273001R0164		0.375	1
	20 *1	550468	S203M-C20	2CDS273001R0204		0.375	1
	25	550475	S203M-C25	2CDS273001R0254		0.375	1
	32 *2	550482	S203M-C32	2CDS273001R0324		0.375	1
	40 *3	550499	S203M-C40	2CDS273001R0404		0.375	1
	50	543996	S203M-C50	2CDS273001R0504		0.375	1
	63	544009	S203M-C63	2CDS273001R0634		0.375	1
4	0.5	550659	S204M-C0.5	2CDS274001R0984		0.500	1
	1	550673	S204M-C1	2CDS274001R0014		0.500	1
	1.6	550666	S204M-C1.6	2CDS274001R0974		0.500	1
	2	550680	S204M-C2	2CDS274001R0024		0.500	1
	3	550697	S204M-C3	2CDS274001R0034		0.500	1
	4	550703	S204M-C4	2CDS274001R0044		0.500	1
	6	550710	S204M-C6	2CDS274001R0064		0.500	1
	8	550727	S204M-C8	2CDS274001R0084		0.500	1
	10	550734	S204M-C10	2CDS274001R0104		0.500	1
	13	550741	S204M-C13	2CDS274001R0134		0.500	1
	16	550758	S204M-C16	2CDS274001R0164		0.500	1
	20	550765	S204M-C20	2CDS274001R0204		0.500	1
	25	550772	S204M-C25	2CDS274001R0254		0.500	1
	32	550789	S204M-C32	2CDS274001R0324		0.500	1
	40	550796	S204M-C40	2CDS274001R0404		0.500	1
	50	544030	S204M-C50	2CDS274001R0504		0.500	1
	63	544047	S204M-C63	2CDS274001R0634		0.500	1

*1 suitable for flow-type heaters 12 kW

*2 suitable for flow-type heaters 18 kW

*3 suitable for flow-type heaters 21, 24 and 27 kW

MCBs

S 200 series M-C characteristic



S 201 M NA



S 203 M NA

With disconnecting neutral NA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+NA	0.5	550055	S201M-C0.5NA	2CDS271103R0984		0.250	5
	1	550079	S201M-C1NA	2CDS271103R0014		0.250	5
	1.6	550062	S201M-C1.6NA	2CDS271103R0974		0.250	5
	2	550086	S201M-C2NA	2CDS271103R0024		0.250	5
	3	550093	S201M-C3NA	2CDS271103R0034		0.250	5
	4	550109	S201M-C4NA	2CDS271103R0044		0.250	5
	6	550116	S201M-C6NA	2CDS271103R0064		0.250	5
	8	550123	S201M-C8NA	2CDS271103R0084		0.250	5
	10	550130	S201M-C10NA	2CDS271103R0104		0.250	5
	13	550147	S201M-C13NA	2CDS271103R0134		0.250	5
	16	550154	S201M-C16NA	2CDS271103R0164		0.250	5
	20 *1	550161	S201M-C20NA	2CDS271103R0204		0.250	5
	25	550178	S201M-C25NA	2CDS271103R0254		0.250	5
	32 *2	550185	S201M-C32NA	2CDS271103R0324		0.250	5
	40 *3	550192	S201M-C40NA	2CDS271103R0404		0.250	5
	50	543958	S201M-C50NA	2CDS271103R0504		0.250	5
	63	543965	S201M-C63NA	2CDS271103R0634		0.250	5
3+NA	0.5	550512	S203M-C0.5NA	2CDS273103R0984		0.500	1
	1	550529	S203M-C1NA	2CDS273103R0014		0.500	1
	1.6	550505	S203M-C1.6NA	2CDS273103R0974		0.500	1
	2	550536	S203M-C2NA	2CDS273103R0024		0.500	1
	3	550543	S203M-C3NA	2CDS273103R0034		0.500	1
	4	550550	S203M-C4NA	2CDS273103R0044		0.500	1
	6	550567	S203M-C6NA	2CDS273103R0064		0.500	1
	8	550574	S203M-C8NA	2CDS273103R0084		0.500	1
	10	550581	S203M-C10NA	2CDS273103R0104		0.500	1
	13	550598	S203M-C13NA	2CDS273103R0134		0.500	1
	16	550604	S203M-C16NA	2CDS273103R0164		0.500	1
	20 *1	550611	S203M-C20NA	2CDS273103R0204		0.500	1
	25	550628	S203M-C25NA	2CDS273103R0254		0.500	1
	32 *2	550635	S203M-C32NA	2CDS273103R0324		0.500	1
	40 *3	550642	S203M-C40NA	2CDS273103R0404		0.500	1
	50	544016	S203M-C50NA	2CDS273103R0504		0.580	1
	63	544023	S203M-C63NA	2CDS273103R0634		0.580	1

*1 suitable for flow-type heaters 12 kW
*2 suitable for flow-type heaters 18 kW
*3 suitable for flow-type heaters 21, 24 and 27 kW

MCBs

S 200 series M-D characteristic



S 201 M



S 202 M

S 200 M-D characteristic
Function: protection and control of the circuits against overloads and short-circuits; protection for circuits which supply loads with high inrush current at the circuit closing (LV/LV transformers, breakdown lamps).
Applications: residential, commercial and industrial.
Standard: IEC/EN 60898-1, IEC/EN 60947-2
Icn=10 kA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0.5	599832	S201M-D0.5	2CDS271001R0981		0.125	10
	1	500313	S201M-D1	2CDS271001R0011		0.125	10
	1.6	599825	S201M-D1.6	2CDS271001R0971		0.125	10
	2	599337	S201M-D2	2CDS271001R0021		0.125	10
	3	599351	S201M-D3	2CDS271001R0031		0.125	10
	4	599357	S201M-D4	2CDS271001R0041		0.125	10
	6	599399	S201M-D6	2CDS271001R0061		0.125	10
	8	599405	S201M-D8	2CDS271001R0081		0.125	10
	10	599429	S201M-D10	2CDS271001R0101		0.125	10
	13	663267	S201M-D13	2CDS271001R0131		0.125	10
	16	599450	S201M-D16	2CDS271001R0161		0.125	10
	20 *1	500467	S201M-D20	2CDS271001R0201		0.125	10
	25	599498	S201M-D25	2CDS271001R0251		0.125	10
	32 *2	599566	S201M-D32	2CDS271001R0321		0.125	10
	40 *3	599610	S201M-D40	2CDS271001R0401		0.125	10
	50	599702	S201M-D50	2CDS271001R0501		0.125	10
	63	599818	S201M-D63	2CDS271001R0631		0.125	10
2	0.5	600880	S202M-D0.5	2CDS272001R0981		0.250	5
	1	600361	S202M-D1	2CDS272001R0011		0.250	5
	1.6	600873	S202M-D1.6	2CDS272001R0971		0.250	5
	2	600385	S202M-D2	2CDS272001R0021		0.250	5
	3	600408	S202M-D3	2CDS272001R0031		0.250	5
	4	600422	S202M-D4	2CDS272001R0041		0.250	5
	6	600446	S202M-D6	2CDS272001R0061		0.250	5
	8	600453	S202M-D8	2CDS272001R0081		0.250	5
	10	600477	S202M-D10	2CDS272001R0101		0.250	5
	13	663274	S202M-D13	2CDS272001R0131		0.250	5
	16	600507	S202M-D16	2CDS272001R0161		0.250	5
	20	600514	S202M-D20	2CDS272001R0201		0.250	5
	25	600545	S202M-D25	2CDS272001R0251		0.250	5
	32	600613	S202M-D32	2CDS272001R0321		0.250	5
	40	600668	S202M-D40	2CDS272001R0401		0.250	5
	50	600750	S202M-D50	2CDS272001R0501		0.250	5
	63	600866	S202M-D63	2CDS272001R0631		0.250	5

*1 suitable for flow-type heaters 12 kW
*2 suitable for flow-type heaters 18 kW
*3 suitable for flow-type heaters 21, 24 and 27 kW

MCBs

S 200 series M-D characteristic



S 203 M



S 204 M

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	0.5	601412	S203M-D0.5	2CDS273001R0981		0.375	1
	1	600897	S203M-D1	2CDS273001R0011		0.375	1
	1.6	601405	S203M-D1.6	2CDS273001R0971		0.375	1
	2	600910	S203M-D2	2CDS273001R0021		0.375	1
	3	600934	S203M-D3	2CDS273001R0031		0.375	1
	4	600958	S203M-D4	2CDS273001R0041		0.375	1
	6	600972	S203M-D6	2CDS273001R0061		0.375	1
	8	600989	S203M-D8	2CDS273001R0081		0.375	1
	10	601009	S203M-D10	2CDS273001R0101		0.375	1
	13	663281	S203M-D13	2CDS273001R0131		0.375	1
	16	601030	S203M-D16	2CDS273001R0161		0.375	1
	20 *1	601047	S203M-D20	2CDS273001R0201		0.375	1
	25	601078	S203M-D25	2CDS273001R0251		0.375	1
	32 *2	601146	S203M-D32	2CDS273001R0321		0.375	1
	40 *3	601191	S203M-D40	2CDS273001R0401		0.375	1
	50	601283	S203M-D50	2CDS273001R0501		0.375	1
	63	601399	S203M-D63	2CDS273001R0631		0.375	1
4	0.5	602143	S204M-D0.5	2CDS274001R0981		0.500	1
	1	601634	S204M-D1	2CDS274001R0011		0.500	1
	1.6	602136	S204M-D1.6	2CDS274001R0971		0.500	1
	2	601658	S204M-D2	2CDS274001R0021		0.500	1
	3	601672	S204M-D3	2CDS274001R0031		0.500	1
	4	601696	S204M-D4	2CDS274001R0041		0.500	1
	6	601719	S204M-D6	2CDS274001R0061		0.500	1
	8	601726	S204M-D8	2CDS274001R0081		0.500	1
	10	601740	S204M-D10	2CDS274001R0101		0.500	1
	13	663298	S204M-D13	2CDS274001R0131		0.500	1
	16	601771	S204M-D16	2CDS274001R0161		0.500	1
	20	601788	S204M-D20	2CDS274001R0201		0.500	1
	25	601818	S204M-D25	2CDS274001R0251		0.500	1
	32	601887	S204M-D32	2CDS274001R0321		0.500	1
	40	601931	S204M-D40	2CDS274001R0401		0.500	1
	50	602013	S204M-D50	2CDS274001R0501		0.500	1
	63	602129	S204M-D63	2CDS274001R0631		0.500	1

*1 suitable for flow-type heaters 12 kW
*2 suitable for flow-type heaters 18 kW
*3 suitable for flow-type heaters 21, 24 and 27 kW

MCBs

S 200 series M-D characteristic



S 201 M NA



S 203 M NA

With disconnecting neutral NA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+NA	0.5	600354	S201M-D0.5NA	2CDS271103R0981		0.250	5
	1	599849	S201M-D1NA	2CDS271103R0011		0.250	5
	1.6	600347	S201-MD1.6NA	2CDS271103R0971		0.250	5
	2	599863	S201M-D2NA	2CDS271103R0021		0.250	5
	3	599887	S201M-D3NA	2CDS271103R0031		0.250	5
	4	599900	S201M-D4NA	2CDS271103R0041		0.250	5
	6	599924	S201M-D6NA	2CDS271103R0061		0.250	5
	8	599931	S201M-D8NA	2CDS271103R0081		0.250	5
	10	599948	S201M-D10NA	2CDS271103R0101		0.250	5
	13	663304	S201M-D13NA	2CDS271103R0131		0.250	5
	16	599979	S201M-D16NA	2CDS271103R0161		0.250	5
	20 *1	599986	S201M-D20NA	2CDS271103R0201		0.250	5
	25	600019	S201M-D25NA	2CDS271103R0251		0.250	5
	32 *2	600088	S201M-D32NA	2CDS271103R0321		0.250	5
	40 *3	600132	S201M-D40NA	2CDS271103R0401		0.250	5
	50	600224	S201M-D50NA	2CDS271103R0501		0.290	5
	63	600330	S201M-D63NA	2CDS271103R0631		0.290	5
3+NA	0.5	663311	S203M-D0.5NA	2CDS273103R0981		0.500	1
	1	663328	S203M-D1NA	2CDS273103R0011		0.500	1
	1.6	663335	S203M-D1.6NA	2CDS273103R0971		0.500	1
	2	663342	S203M-D2NA	2CDS273103R0021		0.500	1
	3	663359	S203M-D3NA	2CDS273103R0031		0.500	1
	4	663366	S203M-D4NA	2CDS273103R0041		0.500	1
	6	663373	S203M-D6NA	2CDS273103R0061		0.500	1
	8	663380	S203M-D8NA	2CDS273103R0081		0.500	1
	10	663397	S203M-D10NA	2CDS273103R0101		0.500	1
	13	663403	S203M-D13NA	2CDS273103R0131		0.500	1
	16	663410	S203M-D16NA	2CDS273103R0161		0.500	1
	20 *1	663427	S203M-D20NA	2CDS273103R0201		0.500	1
	25	663434	S203M-D25NA	2CDS273103R0251		0.500	1
	32 *2	663441	S203M-D32NA	2CDS273103R0321		0.500	1
	40 *3	663458	S203M-D40NA	2CDS273103R0401		0.500	1
	50	663465	S203M-D50NA	2CDS273103R0501		0.580	1
	63	663472	S203M-D63NA	2CDS273103R0631		0.580	1

*1 suitable for flow-type heaters 12 kW
*2 suitable for flow-type heaters 18 kW
*3 suitable for flow-type heaters 21, 24 and 27 kW

MCBs

S 200 series M-K characteristic



S 201 M



S 202 M

S 200 M-K (power) characteristic
Function: protection and control of the circuits like motors, transformer and auxiliary circuits, against overloads and short-circuits.
Advantages: no nuisance tripping in the case of functional peak currents up to 10xIn, depending on the series; through its highly sensitive thermostatic bimetal trip, the K-type characteristic offers protection to damageable elements in the overcurrent range; it also provides the best protection to cables and lines.
Applications: commercial and industrial.
Standard: IEC/EN 60947-2
Icu=15 kA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0.5	599436	S201M-K0.5	2CDS271001R0157		0.125	10
	1	599474	S201M-K1	2CDS271001R0217		0.125	10
	1.6	599504	S201M-K1.6	2CDS271001R0257		0.125	10
	2	599528	S201M-K2	2CDS271001R0277		0.125	10
	3	599542	S201M-K3	2CDS271001R0317		0.125	10
	4	599573	S201M-K4	2CDS271001R0337		0.125	10
	6	599597	S201M-K6	2CDS271001R0377		0.125	10
	8	599627	S201M-K8	2CDS271001R0407		0.125	10
	10	599641	S201M-K10	2CDS271001R0427		0.125	10
	13	659390	S201M-K13	2CDS271001R0447		0.125	10
	16	599665	S201M-K16	2CDS271001R0467		0.125	10
	20	599689	S201M-K20	2CDS271001R0487		0.125	10
	25	599719	S201M-K25	2CDS271001R0517		0.125	10
	32	599733	S201M-K32	2CDS271001R0537		0.125	10
	40	599757	S201M-K40	2CDS271001R0557		0.125	10
	50	599771	S201M-K50	2CDS271001R0577		0.125	10
	63	599795	S201M-K63	2CDS271001R0607		0.125	10
2	0.5	600484	S202M-K0.5	2CDS272001R0157		0.250	5
	1	600521	S202M-K1	2CDS272001R0217		0.250	5
	1.6	600552	S202M-K1.6	2CDS272001R0257		0.250	5
	2	600576	S202M-K2	2CDS272001R0277		0.250	5
	3	600590	S202M-K3	2CDS272001R0317		0.250	5
	4	600620	S202M-K4	2CDS272001R0337		0.250	5
	6	600644	S202M-K6	2CDS272001R0377		0.250	5
	8	600675	S202M-K8	2CDS272001R0407		0.250	5
	10	600699	S202M-K10	2CDS272001R0427		0.250	5
	13	659406	S202M-K13	2CDS272001R0447		0.250	5
	16	600712	S202M-K16	2CDS272001R0467		0.250	5
	20	600736	S202M-K20	2CDS272001R0487		0.250	5
	25	600767	S202M-K25	2CDS272001R0517		0.250	5
	32	600781	S202M-K32	2CDS272001R0537		0.250	5
	40	600804	S202M-K40	2CDS272001R0557		0.250	5
	50	600828	S202M-K50	2CDS272001R0577		0.250	5
	63	600842	S202M-K63	2CDS272001R0607		0.250	5

MCBs

S 200 series M-K characteristic



S 203 M



S 204 M

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	0.5	601016	S203M-K0.5	2CDS273001R0157		0.375	1
	1	601054	S203M-K1	2CDS273001R0217		0.375	1
	1.6	601085	S203M-K1.6	2CDS273001R0257		0.375	1
	2	601108	S203M-K2	2CDS273001R0277		0.375	1
	3	601122	S203M-K3	2CDS273001R0317		0.375	1
	4	601153	S203M-K4	2CDS273001R0337		0.375	1
	6	601177	S203M-K6	2CDS273001R0377		0.375	1
	8	601207	S203M-K8	2CDS273001R0407		0.375	1
	10	601221	S203M-K10	2CDS273001R0427		0.375	1
	13	659413	S203M-K13	2CDS273001R0447		0.375	1
	16	601245	S203M-K16	2CDS273001R0467		0.375	1
	20	601269	S203M-K20	2CDS273001R0487		0.375	1
	25	601290	S203M-K25	2CDS273001R0517		0.375	1
	32	601313	S203M-K32	2CDS273001R0537		0.375	1
	40	601337	S203M-K40	2CDS273001R0557		0.375	1
	50	601351	S203M-K50	2CDS273001R0577		0.375	1
	63	601375	S203M-K63	2CDS273001R0607		0.375	1
4	0.5	601757	S204M-K0.5	2CDS274001R0157		0.500	1
	1	601795	S204M-K1	2CDS274001R0217		0.500	1
	1.6	601825	S204M-K1.6	2CDS274001R0257		0.500	1
	2	601849	S204M-K2	2CDS274001R0277		0.500	1
	3	601863	S204M-K3	2CDS274001R0317		0.500	1
	4	601894	S204M-K4	2CDS274001R0337		0.500	1
	6	601917	S204M-K6	2CDS274001R0377		0.500	1
	8	601948	S204M-K8	2CDS274001R0407		0.500	1
	10	601962	S204M-K10	2CDS274001R0427		0.500	1
	13	659420	S204M-K13	2CDS274001R0447		0.500	1
	16	601986	S204M-K16	2CDS274001R0467		0.500	1
	20	602006	S204M-K20	2CDS274001R0487		0.500	1
	25	602020	S204M-K25	2CDS274001R0517		0.500	1
	32	602044	S204M-K32	2CDS274001R0537		0.500	1
	40	602068	S204M-K40	2CDS274001R0557		0.500	1
	50	602082	S204M-K50	2CDS274001R0577		0.500	1
	63	602105	S204M-K63	2CDS274001R0607		0.500	1

MCBs

S 200 series M-K characteristic



S 201 M NA



S 203 M NA

With disconnecting neutral NA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+NA	0.5	599955	S201M-K0.5NA	2CDS271103R0157		0.250	5
	1	599993	S201M-K1NA	2CDS271103R0217		0.250	5
	1.6	600026	S201M-K1.6NA	2CDS271103R0257		0.250	5
	2	600040	S201M-K2NA	2CDS271103R0277		0.250	5
	3	600064	S201M-K3NA	2CDS271103R0317		0.250	5
	4	600095	S201M-K4NA	2CDS271103R0337		0.250	5
	6	600118	S201M-K6NA	2CDS271103R0377		0.250	5
	8	600149	S201M-K8NA	2CDS271103R0407		0.250	5
	10	600163	S201M-K10NA	2CDS271103R0427		0.250	5
	13	659437	S201M-K13NA	2CDS271103R0447		0.250	5
	16	600187	S201M-K16NA	2CDS271103R0467		0.250	5
	20	600200	S201M-K20NA	2CDS271103R0487		0.250	5
	25	600231	S201M-K25NA	2CDS271103R0517		0.250	5
	32	600255	S201M-K32NA	2CDS271103R0537		0.250	5
	40	600279	S201M-K40NA	2CDS271103R0557		0.250	5
	50	600293	S201M-K50NA	2CDS271103R0577		0.250	5
	63	600316	S201M-K63NA	2CDS271103R0607		0.250	5
3+NA	0.5	659444	S203M-K0.5NA	2CDS273103R0157		0.500	1
	1	650451	S203M-K1NA	2CDS273103R0217		0.500	1
	1.6	659468	S203M-K1.6NA	2CDS273103R0257		0.500	1
	2	659475	S203M-K2NA	2CDS273103R0277		0.500	1
	3	659482	S203M-K3NA	2CDS273103R0317		0.500	1
	4	659499	S203M-K4NA	2CDS273103R0337		0.500	1
	6	659505	S203M-K6NA	2CDS273103R0377		0.500	1
	8	659512	S203M-K8NA	2CDS273103R0407		0.500	1
	10	659529	S203M-K10NA	2CDS273103R0427		0.500	1
	13	659536	S203M-K13NA	2CDS273103R0447		0.500	1
	16	659543	S203M-K16NA	2CDS273103R0467		0.500	1
	20	659550	S203M-K20NA	2CDS273103R0487		0.500	1
	25	659567	S203M-K25NA	2CDS273103R0517		0.500	1
	32	659574	S203M-K32NA	2CDS273103R0537		0.500	1
	40	659581	S203M-K40NA	2CDS273103R0557		0.500	1
	50	659604	S203M-K50NA	2CDS273103R0577		0.500	1
	63	659611	S203M-K63NA	2CDS273103R0607		0.500	1

MCBs

S 200 series M-Z characteristic



S 201 M



S 202 M

S 200 M-Z characteristic
Function: protection and control of the electronic circuits against lower and long duration overloads and short-circuits.
Applications: commercial and industrial.
Standard: IEC/EN 60947-2
Icu=15 kA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0.5	599443	S201M-Z0.5	2CDS271001R0158		0.125	10
	1	599481	S201M-Z1	2CDS271001R0218		0.125	10
	1.6	599511	S201M-Z1.6	2CDS271001R0258		0.125	10
	2	599535	S201M-Z2	2CDS271001R0278		0.125	10
	3	599559	S201M-Z3	2CDS271001R0318		0.125	10
	4	599580	S201M-Z4	2CDS271001R0338		0.125	10
	6	599603	S201M-Z6	2CDS271001R0378		0.125	10
	8	599634	S201M-Z8	2CDS271001R0408		0.125	10
	10	599658	S201M-Z10	2CDS271001R0428		0.125	10
	16	599672	S201M-Z16	2CDS271001R0468		0.125	10
	20	599696	S201M-Z20	2CDS271001R0488		0.125	10
	25	599726	S201M-Z25	2CDS271001R0518		0.125	10
	32	599740	S201M-Z32	2CDS271001R0538		0.125	10
	40	599764	S201M-Z40	2CDS271001R0558		0.125	10
	50	599788	S201M-Z50	2CDS271001R0578		0.125	10
	63	599801	S201M-Z63	2CDS271001R0608		0.125	10
2	0.5	600491	S202M-Z0.5	2CDS272001R0158		0.250	5
	1	600538	S202M-Z1	2CDS272001R0218		0.250	5
	1.6	600569	S202M-Z1.6	2CDS272001R0258		0.250	5
	2	600583	S202M-Z2	2CDS272001R0278		0.250	5
	3	600606	S202M-Z3	2CDS272001R0318		0.250	5
	4	600637	S202M-Z4	2CDS272001R0338		0.250	5
	6	600651	S202M-Z6	2CDS272001R0378		0.250	5
	8	600682	S202M-Z8	2CDS272001R0408		0.250	5
	10	600705	S202M-Z10	2CDS272001R0428		0.250	5
	16	600729	S202M-Z16	2CDS272001R0468		0.250	5
	20	600743	S202M-Z20	2CDS272001R0488		0.250	5
	25	600774	S202M-Z25	2CDS272001R0518		0.250	5
	32	600798	S202M-Z32	2CDS272001R0538		0.250	5
	40	600811	S202M-Z40	2CDS272001R0558		0.250	5
	50	600835	S202-MZ50	2CDS272001R0578		0.250	5
	63	600859	S202M-Z63	2CDS272001R0608		0.250	5

MCBs

S 200 series M-Z characteristic



S 203 M



S 204 M

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	0.5	601023	S203M-Z0.5	2CDS273001R0158		0.375	1
	1	601061	S203M-Z1	2CDS273001R0218		0.375	1
	1.6	601092	S203M-Z1.6	2CDS273001R0258		0.375	1
	2	601115	S203M-Z2	2CDS273001R0278		0.375	1
	3	601139	S203M-Z3	2CDS273001R0318		0.375	1
	4	601160	S203M-Z4	2CDS273001R0338		0.375	1
	6	601184	S203M-Z6	2CDS273001R0378		0.375	1
	8	601214	S203M-Z8	2CDS273001R0408		0.375	1
	10	601238	S203M-Z10	2CDS273001R0428		0.375	1
	16	601252	S203M-Z16	2CDS273001R0468		0.375	1
	20	601276	S203M-Z20	2CDS273001R0488		0.375	1
	25	601306	S203M-Z25	2CDS273001R0518		0.375	1
	32	601320	S203M-Z32	2CDS273001R0538		0.375	1
	40	601344	S203M-Z40	2CDS273001R0558		0.375	1
	50	601368	S203M-Z50	2CDS273001R0578		0.375	1
	63	601382	S203M-Z63	2CDS273001R0608		0.375	1
4	0.5	601764	S204M-Z0.5	2CDS274001R0158		0.500	1
	1	601810	S204M-Z1	2CDS274001R0218		0.500	1
	1.6	601832	S204M-Z1.6	2CDS274001R0258		0.500	1
	2	601856	S204M-Z2	2CDS274001R0278		0.500	1
	3	601870	S204M-Z3	2CDS274001R0318		0.500	1
	4	601900	S204M-Z4	2CDS274001R0338		0.500	1
	6	601924	S204M-Z6	2CDS274001R0378		0.500	1
	8	601955	S204M-Z8	2CDS274001R0408		0.500	1
	10	601979	S204M-Z10	2CDS274001R0428		0.500	1
	16	601993	S204M-Z16	2CDS274001R0468		0.500	1
	20	659628	S204M-Z20	2CDS274001R0488		0.500	1
	25	602037	S204M-Z25	2CDS274001R0518		0.500	1
	32	602051	S204M-Z32	2CDS274001R0538		0.500	1
	40	602075	S204M-Z40	2CDS274001R0558		0.500	1
	50	602099	S204M-Z50	2CDS274001R0578		0.500	1
	63	602112	S204M-Z63	2CDS274001R0608		0.500	1

*1 U_{Bmax} 125 V ⎓ with 2 poles connected in series

MCBs

S 200 series M-Z characteristic



S 201 M NA



S 203 M NA

With disconnecting neutral NA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+NA	0.5	599962	S201M-Z0.5NA	2CDS271103R0158		0.260	5
	1	600002	S201M-Z1NA	2CDS271103R0218		0.260	5
	1.6	600033	S201M-Z1.6NA	2CDS271103R0258		0.260	5
	2	600057	S201M-Z2NA	2CDS271103R0278		0.260	5
	3	600071	S201M-Z3NA	2CDS271103R0318		0.260	5
	4	600101	S201M-Z4NA	2CDS271103R0338		0.260	5
	6	600125	S201M-Z6NA	2CDS271103R0378		0.260	5
	8	600156	S201M-Z8NA	2CDS271103R0408		0.260	5
	10	600170	S201M-Z10NA	2CDS271103R0428		0.260	5
	16	600194	S201M-Z16NA	2CDS271103R0468		0.260	5
	20	600217	S201M-Z20NA	2CDS271103R0488		0.260	5
	25	600248	S201M-Z25NA	2CDS271103R0518		0.260	5
	32	600262	S201M-Z32NA	2CDS271103R0538		0.260	5
	40	600286	S201M-Z40NA	2CDS271103R0558		0.260	5
	50	600309	S201M-Z50NA	2CDS271103R0578		0.320	5
	63	600323	S201M-Z63NA	2CDS271103R0608		0.320	5
3+NA	0.5	601474	S203M-Z0.5NA	2CDS273103R0158		0.520	1
	1	601481	S203M-Z1NA	2CDS273103R0218		0.520	1
	1.6	601498	S203M-Z1.6NA	2CDS273103R0258		0.520	1
	2	601504	S203M-Z2NA	2CDS273103R0278		0.520	1
	3	601511	S203M-Z3NA	2CDS273103R0318		0.520	1
	4	601528	S203M-Z4NA	2CDS273103R0338		0.520	1
	6	601535	S203M-Z6NA	2CDS273103R0378		0.520	1
	8	601542	S203M-Z8NA	2CDS273103R0408		0.520	1
	10	601559	S203M-Z10NA	2CDS273103R0428		0.520	1
	16	601566	S203M-Z16NA	2CDS273103R0468		0.520	1
	20	601573	S203M-Z20NA	2CDS273103R0488		0.520	1
	25	601580	S203M-Z25NA	2CDS273103R0518		0.520	1
	32	601597	S203M-Z32NA	2CDS273103R0538		0.520	1
	40	601603	S203M-Z40NA	2CDS273103R0558		0.520	1
	50	601610	S203M-Z50NA	2CDS273103R0578		0.640	1
	63	601627	S203M-Z63NA	2CDS273103R0608		0.640	1

MCBs

Supplementary protector S 200 MR series, 10kA

The S200 MR is a high-performance supplementary protector with ring cable lug connections conforming to UL 1077; CSA 22.2. No. 235 and IEC/EN 60947-2 standards. The integrated captive connecting screws simplify the connection of electric lines, provides extra protection and saves time.



S 201 M



S 202 M

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0.2	954181	S201MR-K0.2	2CDS271437R0087		0.140	10
	0.3	956697	S201MR-K0.3	2CDS271437R0117		0.140	10
	0.5	956710	S201MR-K0.5	2CDS271437R0157		0.140	10
	0.75	956734	S201MR-K0.75	2CDS271437R0187		0.140	10
	1	956758	S201MR-K1	2CDS271437R0217		0.140	10
	1.6	956772	S201MR-K1.6	2CDS271437R0257		0.140	10
	2	956796	S201MR-K2	2CDS271437R0277		0.140	10
	3	956819	S201MR-K3	2CDS271437R0317		0.140	10
	4	956833	S201MR-K4	2CDS271437R0337		0.140	10
	5	956857	S201MR-K5	2CDS271437R0357		0.140	10
	6	956871	S201MR-K6	2CDS271437R0377		0.140	10
	8	956895	S201MR-K8	2CDS271437R0407		0.140	10
	10	956918	S201MR-K10	2CDS271437R0427		0.140	10
	13	956932	S201MR-K13	2CDS271437R0447		0.140	10
	15	956956	S201MR-K15	2CDS271437R0457		0.140	10
	16	956970	S201MR-K16	2CDS271437R0467		0.140	10
	20	956994	S201MR-K20	2CDS271437R0487		0.140	10
	25	957014	S201MR-K25	2CDS271437R0517		0.140	10
	30	957038	S201MR-K30	2CDS271437R0527		0.140	10
	32	957052	S201MR-K32	2CDS271437R0537		0.140	10
	35	957076	S201MR-K35	2CDS271437R0547		0.140	10
	40	957090	S201MR-K40	2CDS271437R0557		0.140	10
	50	957113	S201MR-K50	2CDS271437R0577		0.140	10
	60	957137	S201MR-K60	2CDS271437R0587		0.140	10
	63	957151	S201MR-K63	2CDS271437R0607		0.140	10
2	0.2	957670	S202MR-K0.2	2CDS272437R0087		0.280	5
	0.3	957694	S202MR-K0.3	2CDS272437R0117		0.280	5
	0.5	957717	S202MR-K0.5	2CDS272437R0157		0.280	5
	0.75	957731	S202MR-K0.75	2CDS272437R0187		0.280	5
	1	957755	S202MR-K1	2CDS272437R0217		0.280	5
	1.6	957779	S202MR-K1.6	2CDS272437R0257		0.280	5
	2	957793	S202MR-K2	2CDS272437R0277		0.280	5
	3	957816	S202MR-K3	2CDS272437R0317		0.280	5
	4	957830	S202MR-K4	2CDS272437R0337		0.280	5
	5	957854	S202MR-K5	2CDS272437R0357		0.280	5
	6	957878	S202MR-K6	2CDS272437R0377		0.280	5
	8	957892	S202MR-K8	2CDS272437R0407		0.280	5
	10	957915	S202MR-K10	2CDS272437R0427		0.280	5
	13	957939	S202MR-K13	2CDS272437R0447		0.280	5
	15	957953	S202MR-K15	2CDS272437R0457		0.280	5
	16	957977	S202MR-K16	2CDS272437R0467		0.280	5
	20	957991	S202MR-K20	2CDS272437R0487		0.280	5
	25	958011	S202MR-K25	2CDS272437R0517		0.280	5
	30	958035	S202MR-K30	2CDS272437R0527		0.280	5
	32	958059	S202MR-K32	2CDS272437R0537		0.280	5
	35	958073	S202MR-K35	2CDS272437R0547		0.280	5
	40	958097	S202MR-K40	2CDS272437R0557		0.280	5
	50	958110	S202MR-K50	2CDS272437R0577		0.280	5
	60	958134	S202MR-K60	2CDS272437R0587		0.280	5
	63	958158	S202MR-K63	2CDS272437R0607		0.280	5

MCBs

Supplementary protector S 200 MR series, 10kA



S 203 M



S 204 M

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	0.2	958677	S203MR-K0.2	2CDS273437R0087		0.420	3
	0.3	958691	S203MR-K0.3	2CDS273437R0117		0.420	3
	0.5	958714	S203MR-K0.5	2CDS273437R0157		0.420	3
	0.75	958738	S203MR-K0.75	2CDS273437R0187		0.420	3
	1	958752	S203MR-K1	2CDS273437R0217		0.420	3
	1.6	958776	S203MR-K1.6	2CDS273437R0257		0.420	3
	2	958790	S203MR-K2	2CDS273437R0277		0.420	3
	3	958813	S203MR-K3	2CDS273437R0317		0.420	3
	4	958837	S203MR-K4	2CDS273437R0337		0.420	3
	5	958851	S203MR-K5	2CDS273437R0357		0.420	3
	6	958875	S203MR-K6	2CDS273437R0377		0.420	3
	8	958899	S203MR-K8	2CDS273437R0407		0.420	3
	10	958912	S203MR-K10	2CDS273437R0427		0.420	3
	13	958936	S203MR-K13	2CDS273437R0447		0.420	3
	15	958950	S203MR-K15	2CDS273437R0457		0.420	3
	16	958974	S203MR-K16	2CDS273437R0467		0.420	3
	20	958998	S203MR-K20	2CDS273437R0487		0.420	3
	25	959018	S203MR-K25	2CDS273437R0517		0.420	3
	30	959032	S203MR-K30	2CDS273437R0527		0.420	3
	32	959056	S203MR-K32	2CDS273437R0537		0.420	3
	35	959070	S203MR-K35	2CDS273437R0547		0.420	3
	40	959094	S203MR-K40	2CDS273437R0557		0.420	3
	50	959117	S203MR-K50	2CDS273437R0577		0.420	3
	60	959131	S203MR-K60	2CDS273437R0587		0.420	3
	63	959155	S203MR-K63	2CDS273437R0607		0.420	3
4	0.2	959674	S204MR-K0.2	2CDS274437R0087		0.560	2
	0.3	959698	S204MR-K0.3	2CDS274437R0117		0.560	2
	0.5	959711	S204MR-K0.5	2CDS274437R0157		0.560	2
	0.75	959735	S204MR-K0.75	2CDS274437R0187		0.560	2
	1	959759	S204MR-K1	2CDS274437R0217		0.560	2
	1.6	959773	S204MR-K1.6	2CDS274437R0257		0.560	2
	2	959797	S204MR-K2	2CDS274437R0277		0.560	2
	3	959810	S204MR-K3	2CDS274437R0317		0.560	2
	4	959834	S204MR-K4	2CDS274437R0337		0.560	2
	5	959858	S204MR-K5	2CDS274437R0357		0.560	2
	6	959872	S204MR-K6	2CDS274437R0377		0.560	2
	8	959896	S204MR-K8	2CDS274437R0407		0.560	2
	10	959919	S204MR-K10	2CDS274437R0427		0.560	2
	13	959933	S204MR-K13	2CDS274437R0447		0.560	2
	15	959957	S204MR-K15	2CDS274437R0457		0.560	2
	16	959971	S204MR-K16	2CDS274437R0467		0.560	2
	20	959995	S204MR-K20	2CDS274437R0487		0.560	2
	25	960014	S204MR-K25	2CDS274437R0517		0.560	2
	30	960038	S204MR-K30	2CDS274437R0527		0.560	2
	32	960052	S204MR-K32	2CDS274437R0537		0.560	2
	35	960076	S204MR-K35	2CDS274437R0547		0.560	2
	40	960090	S204MR-K40	2CDS274437R0557		0.560	2
	50	960113	S204MR-K50	2CDS274437R0577		0.560	2
	60	960137	S204MR-K60	2CDS274437R0587		0.560	2
	63	960151	S204MR-K63	2CDS274437R0607		0.560	2

MCBs

S 200 series M UC B characteristic
Universal current range



S 201 M UC



S 202 M UC

S 200 M UC B characteristic
Function: protection and control of the circuits against overloads and short-circuits; protection for people and big length cables in TN and IT systems; version dedicated to application
in direct current circuits for voltages up to 220 V DC 1 pole and 440 V DC 2, 3 and 4 poles.
Applications: Industrial.
Standard: IEC/EN 60898-2, IEC/EN 60947-2, UL1077, CSA 22.2 No. 235
(for DC applications, please note polarity of device)
Icu=10 kA

Number of poles	Rated current In A	Bbn 401361 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	6	4430596	S201M-B6UC	2CDS271061R0065		0.125	10
	10	4430602	S201M-B10UC	2CDS271061R0105		0.125	10
	13	4430619	S201M-B13UC	2CDS271061R0135		0.125	10
	16	4430626	S201M-B16UC	2CDS271061R0165		0.125	10
	20	4430633	S201M-B20UC	2CDS271061R0205		0.125	10
	25	4430640	S201M-B25UC	2CDS271061R0255		0.125	10
	32	4430657	S201M-B32UC	2CDS271061R0325		0.125	10
	40	4430664	S201M-B40UC	2CDS271061R0405		0.125	10
	50	4430671	S201M-B50UC	2CDS271061R0505		0.125	10
	63	4430688	S201M-B63UC	2CDS271061R0635		0.125	10
2	6	4432811	S202M-B6UC	2CDS272061R0065		0.250	5
	10	4432828	S202M-B10UC	2CDS272061R0105		0.250	5
	13	4432835	S202M-B13UC	2CDS272061R0135		0.250	5
	16	4432842	S202M-B16UC	2CDS272061R0165		0.250	5
	20	4432859	S202M-B20UC	2CDS272061R0205		0.250	5
	25	4432866	S202M-B25UC	2CDS272061R0255		0.250	5
	32	4432873	S202M-B32UC	2CDS272061R0325		0.250	5
	40	4432880	S202M-B40UC	2CDS272061R0405		0.250	5
	50	4432897	S202M-B50UC	2CDS272061R0505		0.250	5
	63	4432903	S202M-B63UC	2CDS272061R0635		0.250	5

MCBs

S 200 series M UC B characteristic
Universal current range



S 203 M UC



S 204 M UC

Number of poles	Rated current In A	Bbn 401361 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	6	4435034	S203M-B6UC	2CDS273061R0065		0.375	1
	10	4435041	S203M-B10UC	2CDS273061R0105		0.375	1
	13	4435058	S203M-B13UC	2CDS273061R0135		0.375	1
	16	4435065	S203M-B16UC	2CDS273061R0165		0.375	1
	20	4435072	S203M-B20UC	2CDS273061R0205		0.375	1
	25	4435089	S203M-B25UC	2CDS273061R0255		0.375	1
	32	4435096	S203M-B32UC	2CDS273061R0325		0.375	1
	40	4435102	S203M-B40UC	2CDS273061R0405		0.375	1
	50	4435119	S203M-B50UC	2CDS273061R0505		0.375	1
	63	4435126	S203M-B63UC	2CDS273061R0635		0.375	1
4	6	4437250	S204M-B6UC	2CDS274061R0065		0.500	1
	10	4437267	S204M-B10UC	2CDS274061R0105		0.500	1
	13	4437274	S204M-B13UC	2CDS274061R0135		0.500	1
	16	4437281	S204M-B16UC	2CDS274061R0165		0.500	1
	20	4437298	S204M-B20UC	2CDS274061R0205		0.500	1
	25	4437304	S204M-B25UC	2CDS274061R0255		0.500	1
	32	4437311	S204M-B32UC	2CDS274061R0325		0.500	1
	40	4437328	S204M-B40UC	2CDS274061R0405		0.500	1
	50	4437335	S204M-B50UC	2CDS274061R0505		0.500	1
	63	4437342	S204M-B63UC	2CDS274061R0635		0.500	1

MCBs

S 200 series M UC C characteristic
Universal current range

S 200 M UC C characteristic
Function: protection and control of the circuits against overloads and short-circuits; protection for people and big length cables in TN and IT systems; version dedicated to application
in direct current circuits for voltages up to 220 V DC 1 pole and 440 V DC 2, 3 and 4 poles.
Applications: Industrial.
Standard: IEC/EN 60898-2, IEC/EN 60947-2, UL1077, CSA 22.2 No. 235
(for DC applications, please note polarity of device)
Icu=10 kA


S 201 M UC


S 202 M UC

Number of poles	Rated current In A	Bbn 401361 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0.5	4430695	S201M-C0.5UC	2CDS271061R0984		0.125	10
	1	4430701	S201M-C1UC	2CDS271061R0014		0.125	10
	1.6	4430718	S201M-C1.6UC	2CDS271061R0974		0.125	10
	2	4430725	S201M-C2UC	2CDS271061R0024		0.125	10
	3	4430732	S201M-C3UC	2CDS271061R0034		0.125	10
	4	4430749	S201M-C4UC	2CDS271061R0044		0.125	10
	6	4430756	S201M-C6UC	2CDS271061R0064		0.125	10
	8	4430763	S201M-C8UC	2CDS271061R0084		0.125	10
	10	4430770	S201M-C10UC	2CDS271061R0104		0.125	10
	13	4430787	S201M-C13UC	2CDS271061R0134		0.125	10
	16	4430794	S201M-C16UC	2CDS271061R0164		0.125	10
	20	4430800	S201M-C20UC	2CDS271061R0204		0.125	10
	25	4430817	S201M-C25UC	2CDS271061R0254		0.125	10
	32	4430824	S201M-C32UC	2CDS271061R0324		0.125	10
	40	4430831	S201M-C40UC	2CDS271061R0404		0.125	10
	50	4430848	S201M-C50UC	2CDS271061R0504		0.125	10
	63	4430855	S201M-C63UC	2CDS271061R0634		0.125	10
2	0.5	4432910	S202M-C0.5UC	2CDS272061R0984		0.250	5
	1	4432927	S202M-C1UC	2CDS272061R0014		0.250	5
	1.6	4432934	S202M-C1.6UC	2CDS272061R0974		0.250	5
	2	4432941	S202M-C2UC	2CDS272061R0024		0.250	5
	3	4432958	S202M-C3UC	2CDS272061R0034		0.250	5
	4	4432965	S202M-C4UC	2CDS272061R0044		0.250	5
	6	4432972	S202M-C6UC	2CDS272061R0064		0.250	5
	8	4432989	S202M-C8UC	2CDS272061R0084		0.250	5
	10	4432996	S202M-C10UC	2CDS272061R0104		0.250	5
	13	4433009	S202M-C13UC	2CDS272061R0134		0.250	5
	16	4433016	S202M-C16UC	2CDS272061R0164		0.250	5
	20	4433023	S202M-C20UC	2CDS272061R0204		0.250	5
	25	4433030	S202M-C25UC	2CDS272061R0254		0.250	5
	32	4433047	S202M-C32UC	2CDS272061R0324		0.250	5
	40	4433054	S202M-C40UC	2CDS272061R0404		0.250	5
	50	4433061	S202M-C50UC	2CDS272061R0504		0.250	5
	63	4433078	S202M-C63UC	2CDS272061R0634		0.250	5

MCBs

S 200 series M UC C characteristic
Universal current range



S 203 M UC



S 204 M UC

Number of poles	Rated current In A	Bbn 401361 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	0.5	4435133	S203M-C0.5UC	2CDS273061R0984		0.375	1
	1	4435140	S203M-C1UC	2CDS273061R0014		0.375	1
	1.6	4435157	S203M-C1.6UC	2CDS273061R0974		0.375	1
	2	4435164	S203M-C2UC	2CDS273061R0024		0.375	1
	3	4435171	S203M-C3UC	2CDS273061R0034		0.375	1
	4	4435188	S203M-C4UC	2CDS273061R0044		0.375	1
	6	4435195	S203M-C6UC	2CDS273061R0064		0.375	1
	8	4435201	S203M-C8UC	2CDS273061R0084		0.375	1
	10	4435218	S203M-C10UC	2CDS273061R0104		0.375	1
	13	4435225	S203M-C13UC	2CDS273061R0134		0.375	1
	16	4435232	S203M-C16UC	2CDS273061R0164		0.375	1
	20	4435249	S203M-C20UC	2CDS273061R0204		0.375	1
	25	4435256	S203M-C25UC	2CDS273061R0254		0.375	1
	32	4435263	S203M-C32UC	2CDS273061R0324		0.375	1
	40	4435270	S203M-C40UC	2CDS273061R0404		0.375	1
	50	4435287	S203M-C50UC	2CDS273061R0504		0.375	1
	63	4435294	S203M-C63UC	2CDS273061R0634		0.375	1
4	0.5	4437359	S204M-C0.5UC	2CDS274061R0984		0.500	1
	1	4437366	S204M-C1UC	2CDS274061R0014		0.500	1
	1.6	4437373	S204M-C1.6UC	2CDS274061R0974		0.500	1
	2	4437380	S204M-C2UC	2CDS274061R0024		0.500	1
	3	4437397	S204M-C3UC	2CDS274061R0034		0.500	1
	4	4437403	S204M-C4UC	2CDS274061R0044		0.500	1
	6	4437410	S204M-C6UC	2CDS274061R0064		0.500	1
	8	4437427	S204M-C8UC	2CDS274061R0084		0.500	1
	10	4437434	S204M-C10UC	2CDS274061R0104		0.500	1
	13	4437441	S204M-C13UC	2CDS274061R0134		0.500	1
	16	4437458	S204M-C16UC	2CDS274061R0164		0.500	1
	20	4437465	S204M-C20UC	2CDS274061R0204		0.500	1
	25	4437472	S204M-C25UC	2CDS274061R0254		0.500	1
	32	4437489	S204M-C32UC	2CDS274061R0324		0.500	1
	40	4437496	S204M-C40UC	2CDS274061R0404		0.500	1
	50	4437502	S204M-C50UC	2CDS274061R0504		0.500	1
	63	4437519	S204M-C63UC	2CDS274061R0634		0.500	1

MCBs

S 200 series M UC – Universal current range K characteristic



S 201 M UC

S 200 M UC K characteristic
Function: protection and control of the circuits against overloads and short-circuits; protection for people and big length cables in TN and IT systems; version dedicated to application
in direct current circuits for voltages up to 220 V DC 1 pole and 440 V DC 2, 3 and 4 poles.
Applications: Industrial.
Standard: IEC/EN 60947-2, UL1077, CSA 22.2 No. 235
(for DC applications, please note polarity of device)
Icu=10 kA

Number of poles	Rated current In A	Bbn 401361 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0.2	4430862	S201M-K0.2UC	2CDS271061R0087		0.125	10
	0.3	4430879	S201M-K0.3UC	2CDS271061R0117		0.125	10
	0.5	4430886	S201M-K0.5UC	2CDS271061R0157		0.125	10
	0.75	4430893	S201M-K0.75UC	2CDS271061R0187		0.125	10
	1	4430909	S201M-K1UC	2CDS271061R0217		0.125	10
	1.6	4430916	S201M-K1.6UC	2CDS271061R0257		0.125	10
	2	4430923	S201M-K2UC	2CDS271061R0277		0.125	10
	3	4430930	S201M-K3UC	2CDS271061R0317		0.125	10
	4	4430947	S201M-K4UC	2CDS271061R0337		0.125	10
	5	4430954	S201M-K5UC	2CDS271061R0357		0.125	10
	6	4430961	S201M-K6UC	2CDS271061R0377		0.125	10
	8	4430978	S201M-K8UC	2CDS271061R0407		0.125	10
	10	4430985	S201M-K10UC	2CDS271061R0427		0.125	10
	13	4430992	S201M-K13UC	2CDS271061R0447		0.125	10
	15	4431005	S201M-K15UC	2CDS271061R0457		0.125	10
	16	4431012	S201M-K16UC	2CDS271061R0467		0.125	10
	20	4431029	S201M-K20UC	2CDS271061R0487		0.125	10
	25	4431036	S201M-K25UC	2CDS271061R0517		0.125	10
	30	4431043	S201M-K30UC	2CDS271061R0527		0.125	10
	32	4431050	S201M-K32UC	2CDS271061R0537		0.125	10
	35	4431067	S201M-K35UC	2CDS271061R0547		0.125	10
	40	4431074	S201M-K40UC	2CDS271061R0557		0.125	10
	50	4431081	S201M-K50UC	2CDS271061R0577		0.125	10
	60	4431098	S201M-K60UC	2CDS271061R0587		0.125	10
	63	4431104	S201M-K63UC	2CDS271061R0607		0.125	10

MCBs

S 200 series M UC – Universal current range K characteristic



S 202 M UC



S 203 M UC

Number of poles	Rated current In A	Bbn 401361 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
2	0.2	4433085	S202M-K0.2UC	2CDS272061R0087		0.250	5
	0.3	4433092	S202M-K0.3UC	2CDS272061R0117		0.250	5
	0.5	4433108	S202M-K0.5UC	2CDS272061R0157		0.250	5
	0.75	4433115	S202M-K0.75UC	2CDS272061R0187		0.250	5
	1	4433122	S202M-K1UC	2CDS272061R0217		0.250	5
	1.6	4433139	S202M-K1.6UC	2CDS272061R0257		0.250	5
	2	4433146	S202M-K2UC	2CDS272061R0277		0.250	5
	3	4433153	S202M-K3UC	2CDS272061R0317		0.250	5
	4	4433160	S202M-K4UC	2CDS272061R0337		0.250	5
	5	4433177	S202M-K5UC	2CDS272061R0357		0.250	5
	6	4433184	S202M-K6UC	2CDS272061R0377		0.250	5
	8	4433191	S202M-K8UC	2CDS272061R0407		0.250	5
	10	4433207	S202M-K10UC	2CDS272061R0427		0.250	5
	13	4433214	S202M-K13UC	2CDS272061R0447		0.250	5
	15	4433221	S202M-K15UC	2CDS272061R0457		0.250	5
	16	4433238	S202M-K16UC	2CDS272061R0467		0.250	5
	20	4433245	S202M-K20UC	2CDS272061R0487		0.250	5
	25	4433252	S202M-K25UC	2CDS272061R0517		0.250	5
	30	4433269	S202M-K30UC	2CDS272061R0527		0.250	5
	32	4433276	S202M-K32UC	2CDS272061R0537		0.250	5
	35	4433283	S202M-K35UC	2CDS272061R0547		0.250	5
	40	4433290	S202M-K40UC	2CDS272061R0557		0.250	5
	50	4433306	S202M-K50UC	2CDS272061R0577		0.250	5
	60	4433313	S202M-K60UC	2CDS272061R0587		0.250	5
	63	4433320	S202M-K63UC	2CDS272061R0607		0.250	5
3	0.2	4435300	S203M-K0.2UC	2CDS273061R0087		0.375	1
	0.3	4435317	S203M-K0.3UC	2CDS273061R0117		0.375	1
	0.5	4435324	S203M-K0.5UC	2CDS273061R0157		0.375	1
	0.75	4435331	S203M-K0.75UC	2CDS273061R0187		0.375	1
	1	4435348	S203M-K1UC	2CDS273061R0217		0.375	1
	1.6	4435355	S203M-K1.6UC	2CDS273061R0257		0.375	1
	2	4435362	S203M-K2UC	2CDS273061R0277		0.375	1
	3	4435379	S203M-K3UC	2CDS273061R0317		0.375	1
	4	4435386	S203M-K4UC	2CDS273061R0337		0.375	1
	5	4435393	S203M-K5UC	2CDS273061R0357		0.375	1
	6	4435409	S203M-K6UC	2CDS273061R0377		0.375	1
	8	4435416	S203M-K8UC	2CDS273061R0407		0.375	1
	10	4435423	S203M-K10UC	2CDS273061R0427		0.375	1
	13	4435430	S203M-K13UC	2CDS273061R0447		0.375	1
	15	4435447	S203M-K15UC	2CDS273061R0457		0.375	1
	16	4435454	S203M-K16UC	2CDS273061R0467		0.375	1
	20	4435461	S203M-K20UC	2CDS273061R0487		0.375	1
	25	4435478	S203M-K25UC	2CDS273061R0517		0.375	1
	30	4435485	S203M-K30UC	2CDS273061R0527		0.375	1
	32	4435492	S203M-K32UC	2CDS273061R0537		0.375	1
	35	4435508	S203M-K35UC	2CDS273061R0547		0.375	1
	40	4435515	S203M-K40UC	2CDS273061R0557		0.375	1
	50	4435522	S203M-K50UC	2CDS273061R0577		0.375	1
	60	4435539	S203M-K60UC	2CDS273061R0587		0.375	1
	63	4435546	S203M-K63UC	2CDS273061R0607		0.375	1

MCBs

S 200 series M UC – Universal current range K characteristic



S 204 M UC

Number of poles	Rated current In A	Bbn 401361 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
4	0.2	4437526	S204M-K0.2UC	2CDS274061R0087		0.500	1
	0.3	4437533	S204M-K0.3UC	2CDS274061R0117		0.500	1
	0.5	4437540	S204M-K0.5UC	2CDS274061R0157		0.500	1
	0.75	4437557	S204M-K0.75UC	2CDS274061R0187		0.500	1
	1	4437564	S204M-K1UC	2CDS274061R0217		0.500	1
	1.6	4437571	S204M-K1.6UC	2CDS274061R0257		0.500	1
	2	4437588	S204M-K2UC	2CDS274061R0277		0.500	1
	3	4437595	S204M-K3UC	2CDS274061R0317		0.500	1
	4	4437601	S204M-K4UC	2CDS274061R0337		0.500	1
	5	4437618	S204M-K5UC	2CDS274061R0357		0.500	1
	6	4437625	S204M-K6UC	2CDS274061R0377		0.500	1
	8	4437632	S204M-K8UC	2CDS274061R0407		0.500	1
	10	4437649	S204M-K10UC	2CDS274061R0427		0.500	1
	13	4437656	S204M-K13UC	2CDS274061R0447		0.500	1
	15	4437663	S204M-K15UC	2CDS274061R0457		0.500	1
	16	4437670	S204M-K16UC	2CDS274061R0467		0.500	1
	20	4437687	S204M-K20UC	2CDS274061R0487		0.500	1
	25	4437694	S204M-K25UC	2CDS274061R0517		0.500	1
	30	4437700	S204M-K30UC	2CDS274061R0527		0.500	1
	32	4437717	S204M-K32UC	2CDS274061R0537		0.500	1
	35	4437724	S204M-K35UC	2CDS274061R0547		0.500	1
	40	4437731	S204M-K40UC	2CDS274061R0557		0.500	1
	50	4437748	S204M-K50UC	2CDS274061R0577		0.500	1
	60	4437755	S204M-K60UC	2CDS274061R0587		0.500	1
	63	4437762	S204M-K63UC	2CDS274061R0607		0.500	1

MCBs

S 200 series M UC – Universal current range Z characteristic



S 201 M UC



S 202 M UC

S 200 M UC Z characteristic
Function: protection and control of the circuits against overloads and short-circuits; protection for people and big length cables in TN and IT systems; version dedicated to application
in direct current circuits for voltages up to 220 V DC 1 pole and 440 V DC 2, 3 and 4 poles.
Applications: Industrial.
Standard: IEC/EN 60947-2, UL1077, CSA 22.2 No. 235
(for DC applications, please note polarity of device)
Icu=10 kA

Number of poles	Rated current In A	Bbn 401361 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0.5	4431111	S201M-Z0.5UC	2CDS271061R0158		0.125	1
	1	4431128	S201M-Z1UC	2CDS271061R0218		0.125	1
	1.6	4431135	S201M-Z1.6UC	2CDS271061R0258		0.125	1
	2	4431142	S201M-Z2UC	2CDS271061R0278		0.125	1
	3	4431159	S201M-Z3UC	2CDS271061R0318		0.125	1
	4	4431166	S201M-Z4UC	2CDS271061R0338		0.125	1
	5	4431173	S201M-Z5UC	2CDS271061R0358		0.125	1
	6	4431180	S201M-Z6UC	2CDS271061R0378		0.125	1
	8	4431197	S201M-Z8UC	2CDS271061R0408		0.125	1
	10	4431203	S201M-Z10UC	2CDS271061R0428		0.125	1
	15	4431227	S201M-Z15UC	2CDS271061R0458		0.125	1
	16	4431234	S201M-Z16UC	2CDS271061R0468		0.125	1
	20	4431241	S201M-Z20UC	2CDS271061R0488		0.125	1
	25	4431258	S201M-Z25UC	2CDS271061R0518		0.125	1
	30	4431265	S201M-Z30UC	2CDS271061R0528		0.125	1
	32	4431272	S201M-Z32UC	2CDS271061R0538		0.125	1
	35	4431289	S201M-Z35UC	2CDS271061R0548		0.125	1
	40	4431296	S201M-Z40UC	2CDS271061R0558		0.125	1
	50	4431302	S201M-Z50UC	2CDS271061R0578		0.125	1
	60	4431319	S201M-Z60UC	2CDS271061R0588		0.125	1
	63	4431326	S201M-Z63UC	2CDS271061R0608		0.125	1
2	0.5	4433337	S202M-Z0.5UC	2CDS272061R0158		0.250	5
	1	4433344	S202M-Z1UC	2CDS272061R0218		0.250	5
	1.6	4433351	S202M-Z1.6UC	2CDS272061R0258		0.250	5
	2	4433368	S202M-Z2UC	2CDS272061R0278		0.250	5
	3	4433375	S202M-Z3UC	2CDS272061R0318		0.250	5
	4	4433382	S202M-Z4UC	2CDS272061R0338		0.250	5
	5	4433399	S202M-Z5UC	2CDS272061R0358		0.250	5
	6	4433405	S202M-Z6UC	2CDS272061R0378		0.250	5
	8	4433412	S202M-Z8UC	2CDS272061R0408		0.250	5
	10	4433429	S202M-Z10UC	2CDS272061R0428		0.250	5
	15	4433443	S202M-Z15UC	2CDS272061R0458		0.250	5
	16	4433450	S202M-Z16UC	2CDS272061R0468		0.250	5
	20	4433467	S202M-Z20UC	2CDS272061R0488		0.250	5
	25	4433474	S202M-Z25UC	2CDS272061R0518		0.250	5
	30	4433481	S202M-Z30UC	2CDS272061R0528		0.250	5
	32	4433498	S202M-Z32UC	2CDS272061R0538		0.250	5
	35	4433504	S202M-Z35UC	2CDS272061R0548		0.250	5
	40	4433511	S202M-Z40UC	2CDS272061R0558		0.250	5
	50	4433528	S202M-Z50UC	2CDS272061R0578		0.250	5
	60	4433535	S202M-Z60UC	2CDS272061R0588		0.250	5
	63	4433542	S202M-Z63UC	2CDS272061R0608		0.250	5

MCBs

S 200 series M UC – Universal current range Z characteristic



S 203 M UC



S 204 M UC

Number of poles	Rated current In A	Bbn 401361 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	0.5	4435553	S203M-Z0.5UC	2CDS273061R0158		0.375	1
	1	4435560	S203M-Z1UC	2CDS273061R0218		0.375	1
	1.6	4435577	S203M-Z1.6UC	2CDS273061R0258		0.375	1
	2	4435584	S203M-Z2UC	2CDS273061R0278		0.375	1
	3	4435591	S203M-Z3UC	2CDS273061R0318		0.375	1
	4	4435607	S203M-Z4UC	2CDS273061R0338		0.375	1
	5	4435614	S203M-Z5UC	2CDS273061R0358		0.375	1
	6	4435621	S203M-Z6UC	2CDS273061R0378		0.375	1
	8	4435638	S203M-Z8UC	2CDS273061R0408		0.375	1
	10	4435645	S203M-Z10UC	2CDS273061R0428		0.375	1
	15	4435669	S203M-Z15UC	2CDS273061R0458		0.375	1
	16	4435676	S203M-Z16UC	2CDS273061R0468		0.375	1
	20	4435683	S203M-Z20UC	2CDS273061R0488		0.375	1
	25	4435690	S203M-Z25UC	2CDS273061R0518		0.375	1
	30	4435706	S203M-Z30UC	2CDS273061R0528		0.375	1
	32	4435713	S203M-Z32UC	2CDS273061R0538		0.375	1
	35	4435720	S203M-Z35UC	2CDS273061R0548		0.375	1
	40	4435737	S203M-Z40UC	2CDS273061R0558		0.375	1
	50	4435744	S203M-Z50UC	2CDS273061R0578		0.375	1
	60	4435751	S203M-Z60UC	2CDS273061R0588		0.375	1
	63	4435768	S203M-Z63UC	2CDS273061R0608		0.375	1
4	0.5	4437779	S204M-Z0.5UC	2CDS274061R0158		0.500	1
	1	4437786	S204M-Z1UC	2CDS274061R0218		0.500	1
	1.6	4437793	S204M-Z1.6UC	2CDS274061R0258		0.500	1
	2	4437809	S204M-Z2UC	2CDS274061R0278		0.500	1
	3	4437816	S204M-Z3UC	2CDS274061R0318		0.500	1
	4	4437823	S204M-Z4UC	2CDS274061R0338		0.500	1
	5	4437830	S204M-Z5UC	2CDS274061R0358		0.500	1
	6	4437847	S204M-Z6UC	2CDS274061R0378		0.500	1
	8	4437854	S204M-Z8UC	2CDS274061R0408		0.500	1
	10	4437861	S204M-Z10UC	2CDS274061R0428		0.500	1
	15	4437885	S204M-Z15UC	2CDS274061R0458		0.500	1
	16	4437892	S204M-Z16UC	2CDS274061R0468		0.500	1
	20	4437908	S204M-Z20UC	2CDS274061R0488		0.500	1
	25	4437915	S204M-Z25UC	2CDS274061R0518		0.500	1
	30	4437922	S204M-Z30UC	2CDS274061R0528		0.500	1
	32	4437939	S204M-Z32UC	2CDS274061R0538		0.500	1
	35	4437946	S204M-Z35UC	2CDS274061R0548		0.500	1
	40	4437953	S204M-Z40UC	2CDS274061R0558		0.500	1
	50	4437960	S204M-Z50UC	2CDS274061R0578		0.500	1
	60	4437977	S204M-Z60UC	2CDS274061R0588		0.500	1
	63	4437984	S204M-Z63UC	2CDS274061R0608		0.500	1

MCBs

S 300 series P-B characteristic



S 301 P



S 302 P



S 303 P

S 300 P-B characteristic NEW

Function: protection and control of the circuits against overloads and short-circuits; protection for people and large length of cables in TN and IT systems.

Applications: commercial and industrial.

Standard: IEC/EN 60898-1, IEC/EN 60947-2

Icu=25 kA; 100 kA (≤6 A)

Icn=25 kA (≤25 A); 20 kA (32-40 A); 15 kA (>40 A);

Number of poles	Rated current In A	Bbn 401677 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	6	9080583	S301P-B6	2CDS381001R0065		0.124	10
	8	9086011	S301P-B8	2CDS381001R0085		0.124	10
	10	9080521	S301P-B10	2CDS381001R0105		0.124	10
	13	9080484	S301P-B13	2CDS381001R0135		0.124	10
	16	9080439	S301P-B16	2CDS381001R0165		0.124	10
	20	9080392	S301P-B20	2CDS381001R0205		0.124	10
	25	9080347	S301P-B25	2CDS381001R0255		0.124	10
	32	9080255	S301P-B32	2CDS381001R0325		0.124	10
	40	9080187	S301P-B40	2CDS381001R0405		0.124	10
	50	9080064	S301P-B50	2CDS381001R0505		0.124	10
	63	9079938	S301P-B63	2CDS381001R0635		0.124	10
2	6	9078993	S302P-B6	2CDS382001R0065		0.248	5
	8	9086059	S302P-B8	2CDS382001R0085		0.248	5
	10	9078931	S302P-B10	2CDS382001R0105		0.248	5
	13	9078894	S302P-B13	2CDS382001R0135		0.248	5
	16	9078849	S302P-B16	2CDS382001R0165		0.248	5
	20	9078801	S302P-B20	2CDS382001R0205		0.248	5
	25	9078757	S302P-B25	2CDS382001R0255		0.248	5
	32	9078665	S302P-B32	2CDS382001R0325		0.248	5
	40	9078597	S302P-B40	2CDS382001R0405		0.248	5
	50	9078474	S302P-B50	2CDS382001R0505		0.248	5
	63	9078344	S302P-B63	2CDS382001R0635		0.248	5
3	6	9078191	S303P-B6	2CDS383001R0065		0.372	1
	8	9086073	S303P-B8	2CDS383001R0085		0.372	1
	10	9078139	S303P-B10	2CDS383001R0105		0.372	1
	13	9078092	S303P-B13	2CDS383001R0135		0.372	1
	16	9078047	S303P-B16	2CDS383001R0165		0.372	1
	20	9078009	S303P-B20	2CDS383001R0205		0.372	1
	25	9077958	S303P-B25	2CDS383001R0255		0.372	1
	32	9077866	S303P-B32	2CDS383001R0325		0.372	1
	40	9077798	S303P-B40	2CDS383001R0405		0.372	1
	50	9077675	S303P-B50	2CDS383001R0505		0.372	1
	63	9077545	S303P-B63	2CDS383001R0635		0.372	1

MCBs

S 300 series P-B characteristic



S 304 P

Number of poles	Rated current In A	Bbn 401677 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
4	6	9076593	S304P-B6	2CDS384001R0065		0.496	1
	8	9086110	S304P-B8	2CDS384001R0085		0.496	1
	10	9076531	S304P-B10	2CDS384001R0105		0.496	1
	13	9076494	S304P-B13	2CDS384001R0135		0.496	1
	16	9076449	S304P-B16	2CDS384001R0165		0.496	1
	20	9135559	S304P-B20	2CDS384001R0205		0.496	1
	25	9076357	S304P-B25	2CDS384001R0255		0.496	1
	32	9076265	S304P-B32	2CDS384001R0325		0.496	1
	40	9076197	S304P-B40	2CDS384001R0405		0.496	1
	50	9076074	S304P-B50	2CDS384001R0505		0.496	1
	63	9075947	S304P-B63	2CDS384001R0635		0.496	1

With disconnecting neutral NA



S 301 P NA



S 303 P NA

Number of poles	Rated current In A	Bbn 401677 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+NA	6	9079785	S301P-B6NA	2CDS381103R0065		0.248	5
	8	9086035	S301P-B8NA	2CDS381103R0085		0.248	5
	10	9079730	S301P-B10NA	2CDS381103R0105		0.248	5
	13	9079693	S301P-B13NA	2CDS381103R0135		0.248	5
	16	9079648	S301P-B16NA	2CDS381103R0165		0.248	5
	20	9079600	S301P-B20NA	2CDS381103R0205		0.248	5
	25	9079556	S301P-B25NA	2CDS381103R0255		0.248	5
	32	9079464	S301P-B32NA	2CDS381103R0325		0.248	5
	40	9079396	S301P-B40NA	2CDS381103R0405		0.248	5
	50	9079273	S301P-B50NA	2CDS381103R0505		0.248	5
	63	9079143	S301P-B63NA	2CDS381103R0635		0.248	5
3+NA	6	9077392	S303P-B6NA	2CDS383103R0065		0.496	1
	8	9086097	S303P-B8NA	2CDS383103R0085		0.496	1
	10	9077330	S303P-B10NA	2CDS383103R0105		0.496	1
	13	9077293	S303P-B13NA	2CDS383103R0135		0.496	1
	16	9077248	S303P-B16NA	2CDS383103R0165		0.496	1
	20	9135641	S303P-B20NA	2CDS383103R0205		0.496	1
	25	9077156	S303P-B25NA	2CDS383103R0255		0.496	1
	32	9077064	S303P-B32NA	2CDS383103R0325		0.496	1
	40	9076999	S303P-B40NA	2CDS383103R0405		0.496	1
	50	9076876	S303P-B50NA	2CDS383103R0505		0.496	1
	63	9076746	S303P-B63NA	2CDS383103R0635		0.496	1

MCBs

S 300 series P-C characteristic



S 301 P



S 302 P

S 300 P-C characteristic NEW

Function: protection and control of the circuits against overloads and short-circuits; protection for people and large length of cables in TN and IT systems.

Applications: commercial and industrial.

Standard: IEC/EN 60898-1, IEC/EN 60947-2

Icu=25 kA; 100 kA (≤6 A)

Icn=25 kA (≤25 A); 20 kA (32-40 A); 15 kA (>40 A);

Number of poles	Rated current In A	Bbn 401677 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0,5	9079891	S301P-C0,5	2CDS381001R0984		0.124	10
	1	9080675	S301P-C1	2CDS381001R0014		0.124	10
	1,6	9079914	S301P-C1,6	2CDS381001R0974		0.124	10
	2	9080651	S301P-C2	2CDS381001R0024		0.124	10
	3	9080637	S301P-C3	2CDS381001R0034		0.124	10
	4	9080613	S301P-C4	2CDS381001R0044		0.124	10
	6	9080590	S301P-C6	2CDS381001R0064		0.124	10
	8	9080569	S301P-C8	2CDS381001R0084		0.124	10
	10	9080538	S301P-C10	2CDS381001R0104		0.124	10
	13	9080491	S301P-C13	2CDS381001R0134		0.124	10
	16	9080446	S301P-C16	2CDS381001R0164		0.124	10
	20	9080408	S301P-C20	2CDS381001R0204		0.124	10
	25	9080354	S301P-C25	2CDS381001R0254		0.124	10
	32	9080262	S301P-C32	2CDS381001R0324		0.124	10
	40	9080194	S301P-C40	2CDS381001R0404		0.124	10
	50	9080071	S301P-C50	2CDS381001R0504		0.124	10
	63	9079945	S301P-C63	2CDS381001R0634		0.124	10
2	0,5	9078306	S302P-C0,5	2CDS382001R0984		0.248	5
	1	9079082	S302P-C1	2CDS382001R0014		0.248	5
	1,6	9078320	S302P-C1,6	2CDS382001R0974		0.248	5
	2	9079068	S302P-C2	2CDS382001R0024		0.248	5
	3	9079044	S302P-C3	2CDS382001R0034		0.248	5
	4	9079020	S302P-C4	2CDS382001R0044		0.248	5
	6	9079006	S302P-C6	2CDS382001R0064		0.248	5
	8	9078979	S302P-C8	2CDS382001R0084		0.248	5
	10	9078948	S302P-C10	2CDS382001R0104		0.248	5
	13	9078900	S302P-C13	2CDS382001R0134		0.248	5
	16	9078856	S302P-C16	2CDS382001R0164		0.248	5
	20	9078818	S302P-C20	2CDS382001R0204		0.248	5
	25	9078764	S302P-C25	2CDS382001R0254		0.248	5
	32	9078672	S302P-C32	2CDS382001R0324		0.248	5
	40	9078603	S302P-C40	2CDS382001R0404		0.248	5
	50	9078481	S302P-C50	2CDS382001R0504		0.248	5
	63	9078351	S302P-C63	2CDS382001R0634		0.248	5

MCBs

S 300 series P-C characteristic



S 303 P



S 304 P

Number of poles	Rated current In A	Bbn 401677 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	0,5	9077507	S303P-C0,5	2CDS383001R0984		0.372	1
	1	9078283	S303P-C1	2CDS383001R0014		0.372	1
	1,6	9077521	S303P-C1,6	2CDS383001R0974		0.372	1
	2	9078269	S303P-C2	2CDS383001R0024		0.372	1
	3	9078245	S303P-C3	2CDS383001R0034		0.372	1
	4	9078221	S303P-C4	2CDS383001R0044		0.372	1
	6	9078207	S303P-C6	2CDS383001R0064		0.372	1
	8	9078177	S303P-C8	2CDS383001R0084		0.372	1
	10	9078146	S303P-C10	2CDS383001R0104		0.372	1
	13	9078108	S303P-C13	2CDS383001R0134		0.372	1
	16	9078054	S303P-C16	2CDS383001R0164		0.372	1
	20	9078016	S303P-C20	2CDS383001R0204		0.372	1
	25	9077965	S303P-C25	2CDS383001R0254		0.372	1
	32	9077873	S303P-C32	2CDS383001R0324		0.372	1
	40	9077804	S303P-C40	2CDS383001R0404		0.372	1
	50	9077682	S303P-C50	2CDS383001R0504		0.372	1
	63	9077552	S303P-C63	2CDS383001R0634		0.372	1
4	0,5	9135511	S304P-C0,5	2CDS384001R0984		0.496	1
	1	9076685	S304P-C1	2CDS384001R0014		0.496	1
	1,6	9075923	S304P-C1,6	2CDS384001R0974		0.496	1
	2	9076661	S304P-C2	2CDS384001R0024		0.496	1
	3	9076647	S304P-C3	2CDS384001R0034		0.496	1
	4	9076623	S304P-C4	2CDS384001R0044		0.496	1
	6	9135573	S304P-C6	2CDS384001R0064		0.496	1
	8	9076579	S304P-C8	2CDS384001R0084		0.496	1
	10	9076548	S304P-C10	2CDS384001R0104		0.496	1
	13	9135566	S304P-C13	2CDS384001R0134		0.496	1
	16	9076456	S304P-C16	2CDS384001R0164		0.496	1
	20	9076418	S304P-C20	2CDS384001R0204		0.496	1
	25	9076364	S304P-C25	2CDS384001R0254		0.496	1
	32	9076272	S304P-C32	2CDS384001R0324		0.496	1
	40	9135689	S304P-C40	2CDS384001R0404		0.496	1
	50	9076081	S304P-C50	2CDS384001R0504		0.496	1
	63	9075954	S304P-C63	2CDS384001R0634		0.496	1

MCBs

S 300 series P-C characteristic

With disconnecting neutral NA

NEW



S 301 P NA



S 303 P NA

Number of poles	Rated current In A	Bbn 401677 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+NA	0,5	9079105	S301P-C0,5NA	2CDS381103R0984		0.248	5
	1	9079877	S301P-C1NA	2CDS381103R0014		0.248	5
	1,6	9079129	S301P-C1,6NA	2CDS381103R0974		0.248	5
	2	9079853	S301P-C2NA	2CDS381103R0024		0.248	5
	3	9079839	S301P-C3NA	2CDS381103R0034		0.248	5
	4	9079815	S301P-C4NA	2CDS381103R0044		0.248	5
	6	9079792	S301P-C6NA	2CDS381103R0064		0.248	5
	8	9079778	S301P-C8NA	2CDS381103R0084		0.248	5
	10	9079747	S301P-C10NA	2CDS381103R0104		0.248	5
	13	9079709	S301P-C13NA	2CDS381103R0134		0.248	5
	16	9079655	S301P-C16NA	2CDS381103R0164		0.248	5
	20	9079617	S301P-C20NA	2CDS381103R0204		0.248	5
	25	9079563	S301P-C25NA	2CDS381103R0254		0.248	5
	32	9079471	S301P-C32NA	2CDS381103R0324		0.248	5
	40	9079402	S301P-C40NA	2CDS381103R0404		0.248	5
	50	9079280	S301P-C50NA	2CDS381103R0504		0.248	5
	63	9079150	S301P-C63NA	2CDS381103R0634		0.248	5
3+NA	0,5	9135580	S303P-C0,5NA	2CDS383103R0984		0.496	1
	1	9077484	S303P-C1NA	2CDS383103R0014		0.496	1
	1,6	9076722	S303P-C1,6NA	2CDS383103R0974		0.496	1
	2	9077460	S303P-C2NA	2CDS383103R0024		0.496	1
	3	9077446	S303P-C3NA	2CDS383103R0034		0.496	1
	4	9077422	S303P-C4NA	2CDS383103R0044		0.496	1
	6	9077408	S303P-C6NA	2CDS383103R0064		0.496	1
	8	9077378	S303P-C8NA	2CDS383103R0084		0.496	1
	10	9077347	S303P-C10NA	2CDS383103R0104		0.496	1
	13	9135658	S303P-C13NA	2CDS383103R0134		0.496	1
	16	9077255	S303P-C16NA	2CDS383103R0164		0.496	1
	20	9077217	S303P-C20NA	2CDS383103R0204		0.496	1
	25	9077163	S303P-C25NA	2CDS383103R0254		0.496	1
	32	9077071	S303P-C32NA	2CDS383103R0324		0.496	1
	40	9135627	S303P-C40NA	2CDS383103R0404		0.496	1
	50	9076883	S303P-C50NA	2CDS383103R0504		0.496	1
	63	9076753	S303P-C63NA	2CDS383103R0634		0.496	1

MCBs

S 300 series P-D characteristic



S 301 P



S 302 P

S 300 P-D characteristic NEW

Function: protection and control of the circuits against overloads and short-circuits; protection for people and large length of cables in TN and IT systems.

Applications: commercial and industrial.

Standard: IEC/EN 60898-1, IEC/EN 60947-2

Icu=25 kA; 100 kA (≤6 A)

Icn=25 kA (≤25 A); 20 kA (32-40 A); 15 kA (>40 A);

Number of poles	Rated current In A	Bbn 401677 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0,5	9079907	S301P-D0,5	2CDS381001R0981		0.124	10
	1	9080682	S301P-D1	2CDS381001R0011		0.124	10
	1,6	9079921	S301P-D1,6	2CDS381001R0971		0.124	10
	2	9080668	S301P-D2	2CDS381001R0021		0.124	10
	3	9080644	S301P-D3	2CDS381001R0031		0.124	10
	4	9080620	S301P-D4	2CDS381001R0041		0.124	10
	6	9080606	S301P-D6	2CDS381001R0061		0.124	10
	8	9080576	S301P-D8	2CDS381001R0081		0.124	10
	10	9080545	S301P-D10	2CDS381001R0101		0.124	10
	13	9080507	S301P-D13	2CDS381001R0131		0.124	10
	16	9080453	S301P-D16	2CDS381001R0161		0.124	10
	20	9080415	S301P-D20	2CDS381001R0201		0.124	10
	25	9080361	S301P-D25	2CDS381001R0251		0.124	10
	32	9080279	S301P-D32	2CDS381001R0321		0.124	10
	40	9080200	S301P-D40	2CDS381001R0401		0.124	10
	50	9080088	S301P-D50	2CDS381001R0501		0.124	10
	63	9079952	S301P-D63	2CDS381001R0631		0.124	10
2	0,5	9078313	S302P-D0,5	2CDS382001R0981		0.248	5
	1	9079099	S302P-D1	2CDS382001R0011		0.248	5
	1,6	9078337	S302P-D1,6	2CDS382001R0971		0.248	5
	2	9079075	S302P-D2	2CDS382001R0021		0.248	5
	3	9079051	S302P-D3	2CDS382001R0031		0.248	5
	4	9079037	S302P-D4	2CDS382001R0041		0.248	5
	6	9079013	S302P-D6	2CDS382001R0061		0.248	5
	8	9078986	S302P-D8	2CDS382001R0081		0.248	5
	10	9078955	S302P-D10	2CDS382001R0101		0.248	5
	13	9078917	S302P-D13	2CDS382001R0131		0.248	5
	16	9078863	S302P-D16	2CDS382001R0161		0.248	5
	20	9078825	S302P-D20	2CDS382001R0201		0.248	5
	25	9078771	S302P-D25	2CDS382001R0251		0.248	5
	32	9078689	S302P-D32	2CDS382001R0321		0.248	5
	40	9078610	S302P-D40	2CDS382001R0401		0.248	5
	50	9078498	S302P-D50	2CDS382001R0501		0.248	5
	63	9078368	S302P-D63	2CDS382001R0631		0.248	5

MCBs

S 300 series P-D characteristic



S 303 P



S 304 P

Number of poles	Rated current In A	Bbn 401677 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	0,5	9077514	S303P-D0,5	2CDS383001R0981		0.372	1
	1	9078290	S303P-D1	2CDS383001R0011		0.372	1
	1,6	9077538	S303P-D1,6	2CDS383001R0971		0.372	1
	2	9078276	S303P-D2	2CDS383001R0021		0.372	1
	3	9078252	S303P-D3	2CDS383001R0031		0.372	1
	4	9078238	S303P-D4	2CDS383001R0041		0.372	1
	6	9078214	S303P-D6	2CDS383001R0061		0.372	1
	8	9078184	S303P-D8	2CDS383001R0081		0.372	1
	10	9078153	S303P-D10	2CDS383001R0101		0.372	1
	13	9078115	S303P-D13	2CDS383001R0131		0.372	1
	16	9078061	S303P-D16	2CDS383001R0161		0.372	1
	20	9078023	S303P-D20	2CDS383001R0201		0.372	1
	25	9077972	S303P-D25	2CDS383001R0251		0.372	1
	32	9077880	S303P-D32	2CDS383001R0321		0.372	1
	40	9077811	S303P-D40	2CDS383001R0401		0.372	1
	50	9077699	S303P-D50	2CDS383001R0501		0.372	1
	63	9077569	S303P-D63	2CDS383001R0631		0.372	1
4	0,5	9075916	S304P-D0,5	2CDS384001R0981		0.496	1
	1	9076692	S304P-D1	2CDS384001R0011		0.496	1
	1,6	9075930	S304P-D1,6	2CDS384001R0971		0.496	1
	2	9076678	S304P-D2	2CDS384001R0021		0.496	1
	3	9076654	S304P-D3	2CDS384001R0031		0.496	1
	4	9076630	S304P-D4	2CDS384001R0041		0.496	1
	6	9076616	S304P-D6	2CDS384001R0061		0.496	1
	8	9076586	S304P-D8	2CDS384001R0081		0.496	1
	10	9076555	S304P-D10	2CDS384001R0101		0.496	1
	13	9076517	S304P-D13	2CDS384001R0131		0.496	1
	16	9076463	S304P-D16	2CDS384001R0161		0.496	1
	20	9076425	S304P-D20	2CDS384001R0201		0.496	1
	25	9076371	S304P-D25	2CDS384001R0251		0.496	1
	32	9076289	S304P-D32	2CDS384001R0321		0.496	1
	40	9076210	S304P-D40	2CDS384001R0401		0.496	1
	50	9076098	S304P-D50	2CDS384001R0501		0.496	1
	63	9075961	S304P-D63	2CDS384001R0631		0.496	1

MCBs

S 300 series P-D characteristic

With disconnecting neutral NA

NEW



S 301 P NA

Number of poles	Rated current In A	Bbn 401677 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+NA	0,5	9079112	S301P-D0,5NA	2CDS381103R0981		0.248	5
	1	9079884	S301P-D1NA	2CDS381103R0011		0.248	5
	1,6	9079136	S301P-D1,6NA	2CDS381103R0971		0.248	5
	2	9079860	S301P-D2NA	2CDS381103R0021		0.248	5
	3	9079846	S301P-D3NA	2CDS381103R0031		0.248	5
	4	9079822	S301P-D4NA	2CDS381103R0041		0.248	5
	6	9079808	S301P-D6NA	2CDS381103R0061		0.248	5
	8	9085717	S301P-D8NA	2CDS381103R0081		0.248	5
	10	9079754	S301P-D10NA	2CDS381103R0101		0.248	5
	13	9079716	S301P-D13NA	2CDS381103R0131		0.248	5
	16	9079662	S301P-D16NA	2CDS381103R0161		0.248	5
	20	9079624	S301P-D20NA	2CDS381103R0201		0.248	5
	25	9079570	S301P-D25NA	2CDS381103R0251		0.248	5
	32	9079488	S301P-D32NA	2CDS381103R0321		0.248	5
	40	9079419	S301P-D40NA	2CDS381103R0401		0.248	5
	50	9079297	S301P-D50NA	2CDS381103R0501		0.248	5
	63	9079167	S301P-D63NA	2CDS381103R0631		0.248	5
3+NA	0,5	9076715	S303P-D0,5NA	2CDS383103R0981		0.496	1
	1	9077491	S303P-D1NA	2CDS383103R0011		0.496	1
	1,6	9076739	S303P-D1,6NA	2CDS383103R0971		0.496	1
	2	9077477	S303P-D2NA	2CDS383103R0021		0.496	1
	3	9077453	S303P-D3NA	2CDS383103R0031		0.496	1
	4	9077439	S303P-D4NA	2CDS383103R0041		0.496	1
	6	9077415	S303P-D6NA	2CDS383103R0061		0.496	1
	8	9077385	S303P-D8NA	2CDS383103R0081		0.496	1
	10	9077354	S303P-D10NA	2CDS383103R0101		0.496	1
	13	9077316	S303P-D13NA	2CDS383103R0131		0.496	1
	16	9077262	S303P-D16NA	2CDS383103R0161		0.496	1
	20	9077224	S303P-D20NA	2CDS383103R0201		0.496	1
	25	9077170	S303P-D25NA	2CDS383103R0251		0.496	1
	32	9077088	S303P-D32NA	2CDS383103R0321		0.496	1
	40	9077019	S303P-D40NA	2CDS383103R0401		0.496	1
	50	9076890	S303P-D50NA	2CDS383103R0501		0.496	1
	63	9076760	S303P-D63NA	2CDS383103R0631		0.496	1



S 303 P NA

MCBs

S 300 series P-K characteristic



S 301 P

S 300 P-K (power) characteristic NEW

Function: protection and control of the circuits like motors. transformers and auxiliary circuits. against overloads and short-circuits.

Advantages: no nuisance tripping in the case of functional peak currents up to 10xIn. depending on the series; through its highly sensitive thermostatic bimetal trip, the K-type characteristic offers protection to damageable elements in the overcurrent range; it also provides the best protection to cables and lines.

Applications: commercial and industrial.

Standard: IEC/EN 60947-2

Icu=25 kA; 100 kA (≤6 A)

Number of poles	Rated current In A	Bbn 401677 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0,2	9080552	S301P-K0,2	2CDS381001R0087		0.124	10
	0,3	9080514	S301P-K0,3	2CDS381001R0117		0.124	10
	0,5	9080477	S301P-K0,5	2CDS381001R0157		0.124	10
	0,75	9080422	S301P-K0,75	2CDS381001R0187		0.124	10
	1	9080385	S301P-K1	2CDS381001R0217		0.124	10
	1,6	9080330	S301P-K1,6	2CDS381001R0257		0.124	10
	2	9080316	S301P-K2	2CDS381001R0277		0.124	10
	3	9080293	S301P-K3	2CDS381001R0317		0.124	10
	4	9080248	S301P-K4	2CDS381001R0337		0.124	10
	6	9080224	S301P-K6	2CDS381001R0377		0.124	10
	8	9080170	S301P-K8	2CDS381001R0407		0.124	10
	10	9080156	S301P-K10	2CDS381001R0427		0.124	10
	13	9080132	S301P-K13	2CDS381001R0447		0.124	10
	16	9080125	S301P-K16	2CDS381001R0467		0.124	10
	20	9080101	S301P-K20	2CDS381001R0487		0.124	10
	25	9080057	S301P-K25	2CDS381001R0517		0.124	10
	32	9080033	S301P-K32	2CDS381001R0537		0.124	10
	40	9080019	S301P-K40	2CDS381001R0557		0.124	10
	50	9079990	S301P-K50	2CDS381001R0577		0.124	10
	63	9079976	S301P-K63	2CDS381001R0607		0.124	10

MCBs

S 300 series P-K characteristic



S 302 P



S 303 P

Number of poles	Rated current In A	Bbn 401677 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
2	0,2	9078962	S302P-K0,2	2CDS382001R0087		0.248	5
	0,3	9078924	S302P-K0,3	2CDS382001R0117		0.248	5
	0,5	9078887	S302P-K0,5	2CDS382001R0157		0.248	5
	0,75	9078832	S302P-K0,75	2CDS382001R0187		0.248	5
	1	9078795	S302P-K1	2CDS382001R0217		0.248	5
	1,6	9078740	S302P-K1,6	2CDS382001R0257		0.248	5
	2	9078726	S302P-K2	2CDS382001R0277		0.248	5
	3	9078702	S302P-K3	2CDS382001R0317		0.248	5
	4	9078658	S302P-K4	2CDS382001R0337		0.248	5
	6	9078634	S302P-K6	2CDS382001R0377		0.248	5
	8	9078580	S302P-K8	2CDS382001R0407		0.248	5
	10	9078566	S302P-K10	2CDS382001R0427		0.248	5
	13	9078542	S302P-K13	2CDS382001R0447		0.248	5
	16	9078535	S302P-K16	2CDS382001R0467		0.248	5
	20	9078511	S302P-K20	2CDS382001R0487		0.248	5
	25	9078467	S302P-K25	2CDS382001R0517		0.248	5
	32	9078443	S302P-K32	2CDS382001R0537		0.248	5
	40	9078429	S302P-K40	2CDS382001R0557		0.248	5
	50	9078405	S302P-K50	2CDS382001R0577		0.248	5
	63	9078382	S302P-K63	2CDS382001R0607		0.248	5
3	0,2	9078160	S303P-K0,2	2CDS383001R0087		0.372	1
	0,3	9078122	S303P-K0,3	2CDS383001R0117		0.372	1
	0,5	9078085	S303P-K0,5	2CDS383001R0157		0.372	1
	0,75	9078030	S303P-K0,75	2CDS383001R0187		0.372	1
	1	9077996	S303P-K1	2CDS383001R0217		0.372	1
	1,6	9077941	S303P-K1,6	2CDS383001R0257		0.372	1
	2	9077927	S303P-K2	2CDS383001R0277		0.372	1
	3	9077903	S303P-K3	2CDS383001R0317		0.372	1
	4	9077859	S303P-K4	2CDS383001R0337		0.372	1
	6	9077835	S303P-K6	2CDS383001R0377		0.372	1
	8	9077781	S303P-K8	2CDS383001R0407		0.372	1
	10	9077767	S303P-K10	2CDS383001R0427		0.372	1
	13	9077743	S303P-K13	2CDS383001R0447		0.372	1
	16	9077736	S303P-K16	2CDS383001R0467		0.372	1
	20	9077712	S303P-K20	2CDS383001R0487		0.372	1
	25	9077668	S303P-K25	2CDS383001R0517		0.372	1
	32	9077644	S303P-K32	2CDS383001R0537		0.372	1
	40	9077620	S303P-K40	2CDS383001R0557		0.372	1
	50	9077606	S303P-K50	2CDS383001R0577		0.372	1
	63	9077583	S303P-K63	2CDS383001R0607		0.372	1

MCBs

S 300 series P-K characteristic



S 304 P

Number of poles	Rated current In A	Bbn 401677 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
4	0,2	9076562	S304P-K0,2	2CDS384001R0087		0.496	1
	0,3	9076524	S304P-K0,3	2CDS384001R0117		0.496	1
	0,5	9076487	S304P-K0,5	2CDS384001R0157		0.496	1
	0,75	9076432	S304P-K0,75	2CDS384001R0187		0.496	1
	1	9076395	S304P-K1	2CDS384001R0217		0.496	1
	1,6	9076340	S304P-K1,6	2CDS384001R0257		0.496	1
	2	9076326	S304P-K2	2CDS384001R0277		0.496	1
	3	9135542	S304P-K3	2CDS384001R0317		0.496	1
	4	9076258	S304P-K4	2CDS384001R0337		0.496	1
	6	9076234	S304P-K6	2CDS384001R0377		0.496	1
	8	9076180	S304P-K8	2CDS384001R0407		0.496	1
	10	9076166	S304P-K10	2CDS384001R0427		0.496	1
	13	9076142	S304P-K13	2CDS384001R0447		0.496	1
	16	9076135	S304P-K16	2CDS384001R0467		0.496	1
	20	9076111	S304P-K20	2CDS384001R0487		0.496	1
	25	9076067	S304P-K25	2CDS384001R0517		0.496	1
	32	9076043	S304P-K32	2CDS384001R0537		0.496	1
	40	9076029	S304P-K40	2CDS384001R0557		0.496	1
	50	9135528	S304P-K50	2CDS384001R0577		0.496	1
	63	9075985	S304P-K63	2CDS384001R0607		0.496	1

With disconnecting neutral NA



S 301 P NA

Number of poles	Rated current In A	Bbn 401677 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+NA	0,2	9079761	S301P-K0,2NA	2CDS381103R0087		0.248	5
	0,3	9079723	S301P-K0,3NA	2CDS381103R0117		0.248	5
	0,5	9079686	S301P-K0,5NA	2CDS381103R0157		0.248	5
	0,75	9079631	S301P-K0,75NA	2CDS381103R0187		0.248	5
	1	9079594	S301P-K1NA	2CDS381103R0217		0.248	5
	1,6	9079549	S301P-K1,6NA	2CDS381103R0257		0.248	5
	2	9079525	S301P-K2NA	2CDS381103R0277		0.248	5
	3	9079501	S301P-K3NA	2CDS381103R0317		0.248	5
	4	9079457	S301P-K4NA	2CDS381103R0337		0.248	5
	6	9079433	S301P-K6NA	2CDS381103R0377		0.248	5
	8	9079389	S301P-K8NA	2CDS381103R0407		0.248	5
	10	9079365	S301P-K10NA	2CDS381103R0427		0.248	5
	13	9079341	S301P-K13NA	2CDS381103R0447		0.248	5
	16	9079334	S301P-K16NA	2CDS381103R0467		0.248	5
	20	9079310	S301P-K20NA	2CDS381103R0487		0.248	5
	25	9079266	S301P-K25NA	2CDS381103R0517		0.248	5
	32	9079242	S301P-K32NA	2CDS381103R0537		0.248	5
	40	9079228	S301P-K40NA	2CDS381103R0557		0.248	5
	50	9135665	S301P-K50NA	2CDS381103R0577		0.248	5
	63	9079181	S301P-K63NA	2CDS381103R0607		0.248	5

MCBs

S 300 series P-K characteristic



S 303 P NA

Number of poles	Rated current In A	Bbn 401677 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3+NA	0,2	9077361	S303P-K0,2NA	2CDS383103R0087		0.496	1
	0,3	9077323	S303P-K0,3NA	2CDS383103R0117		0.496	1
	0,5	9077286	S303P-K0,5NA	2CDS383103R0157		0.496	1
	0,75	9077231	S303P-K0,75NA	2CDS383103R0187		0.496	1
	1	9077194	S303P-K1NA	2CDS383103R0217		0.496	1
	1,6	9077149	S303P-K1,6NA	2CDS383103R0257		0.496	1
	2	9077125	S303P-K2NA	2CDS383103R0277		0.496	1
	3	9135634	S303P-K3NA	2CDS383103R0317		0.496	1
	4	9077057	S303P-K4NA	2CDS383103R0337		0.496	1
	6	9077033	S303P-K6NA	2CDS383103R0377		0.496	1
	8	9076982	S303P-K8NA	2CDS383103R0407		0.496	1
	10	9076968	S303P-K10NA	2CDS383103R0427		0.496	1
	13	9076944	S303P-K13NA	2CDS383103R0447		0.496	1
	16	9076937	S303P-K16NA	2CDS383103R0467		0.496	1
	20	9076913	S303P-K20NA	2CDS383103R0487		0.496	1
	25	9076869	S303P-K25NA	2CDS383103R0517		0.496	1
	32	9076845	S303P-K32NA	2CDS383103R0537		0.496	1
	40	9076821	S303P-K40NA	2CDS383103R0557		0.496	1
	50	9135597	S303P-K50NA	2CDS383103R0577		0.496	1
	63	9076784	S303P-K63NA	2CDS383103R0607		0.496	1

MCBs

S 300 series P-Z characteristic



S 301 P



S 302 P

S 300 P-Z characteristic NEW

Function: protection and control of the electronic circuits against lower and long duration overloads and short-circuits.

Applications: commercial and industrial.

Standard: IEC/EN 60947-2

Icu=25 kA; 100 kA (≤6 A)

Number of poles	Rated current In A	Bbn 401677 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0,5	9080460	S301P-Z0,5	2CDS381001R0158		0.124	10
	1	9080378	S301P-Z1	2CDS381001R0218		0.124	10
	1,6	9080323	S301P-Z1,6	2CDS381001R0258		0.124	10
	2	9080309	S301P-Z2	2CDS381001R0278		0.124	10
	3	9080286	S301P-Z3	2CDS381001R0318		0.124	10
	4	9080231	S301P-Z4	2CDS381001R0338		0.124	10
	6	9080217	S301P-Z6	2CDS381001R0378		0.124	10
	8	9080163	S301P-Z8	2CDS381001R0408		0.124	10
	10	9080149	S301P-Z10	2CDS381001R0428		0.124	10
	16	9080118	S301P-Z16	2CDS381001R0468		0.124	10
	20	9080095	S301P-Z20	2CDS381001R0488		0.124	10
	25	9080040	S301P-Z25	2CDS381001R0518		0.124	10
	32	9080026	S301P-Z32	2CDS381001R0538		0.124	10
	40	9080002	S301P-Z40	2CDS381001R0558		0.124	10
	50	9079983	S301P-Z50	2CDS381001R0578		0.124	10
	63	9079969	S301P-Z63	2CDS381001R0608		0.124	10
2	0,5	9078870	S302P-Z0,5	2CDS382001R0158		0.248	5
	1	9078788	S302P-Z1	2CDS382001R0218		0.248	5
	1,6	9078733	S302P-Z1,6	2CDS382001R0258		0.248	5
	2	9078719	S302P-Z2	2CDS382001R0278		0.248	5
	3	9078696	S302P-Z3	2CDS382001R0318		0.248	5
	4	9078641	S302P-Z4	2CDS382001R0338		0.248	5
	6	9078627	S302P-Z6	2CDS382001R0378		0.248	5
	8	9078573	S302P-Z8	2CDS382001R0408		0.248	5
	10	9078559	S302P-Z10	2CDS382001R0428		0.248	5
	16	9078528	S302P-Z16	2CDS382001R0468		0.248	5
	20	9078504	S302P-Z20	2CDS382001R0488		0.248	5
	25	9078450	S302P-Z25	2CDS382001R0518		0.248	5
	32	9078436	S302P-Z32	2CDS382001R0538		0.248	5
	40	9078412	S302P-Z40	2CDS382001R0558		0.248	5
	50	9078399	S302P-Z50	2CDS382001R0578		0.248	5
	63	9078375	S302P-Z63	2CDS382001R0608		0.248	5

MCBs

S 300 series P-Z characteristic



S 303 P



S 304 P

Number of poles	Rated current In A	Bbn 401677 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	0,5	9078078	S303P-Z0,5	2CDS383001R0158		0.372	1
	1	9077989	S303P-Z1	2CDS383001R0218		0.372	1
	1,6	9077934	S303P-Z1,6	2CDS383001R0258		0.372	1
	2	9077910	S303P-Z2	2CDS383001R0278		0.372	1
	3	9077897	S303P-Z3	2CDS383001R0318		0.372	1
	4	9077842	S303P-Z4	2CDS383001R0338		0.372	1
	6	9077828	S303P-Z6	2CDS383001R0378		0.372	1
	8	9077774	S303P-Z8	2CDS383001R0408		0.372	1
	10	9077750	S303P-Z10	2CDS383001R0428		0.372	1
	16	9077729	S303P-Z16	2CDS383001R0468		0.372	1
	20	9077705	S303P-Z20	2CDS383001R0488		0.372	1
	25	9077651	S303P-Z25	2CDS383001R0518		0.372	1
	32	9077637	S303P-Z32	2CDS383001R0538		0.372	1
	40	9077613	S303P-Z40	2CDS383001R0558		0.372	1
	50	9077590	S303P-Z50	2CDS383001R0578		0.372	1
	63	9077576	S303P-Z63	2CDS383001R0608		0.372	1
4	0,5	9076470	S304P-Z0,5	2CDS384001R0158		0.496	1
	1	9076388	S304P-Z1	2CDS384001R0218		0.496	1
	1,6	9076333	S304P-Z1,6	2CDS384001R0258		0.496	1
	2	9076319	S304P-Z2	2CDS384001R0278		0.496	1
	3	9076296	S304P-Z3	2CDS384001R0318		0.496	1
	4	9076241	S304P-Z4	2CDS384001R0338		0.496	1
	6	9076227	S304P-Z6	2CDS384001R0378		0.496	1
	8	9076173	S304P-Z8	2CDS384001R0408		0.496	1
	10	9076159	S304P-Z10	2CDS384001R0428		0.496	1
	16	9076128	S304P-Z16	2CDS384001R0468		0.496	1
	20	9135535	S304P-Z20	2CDS384001R0488		0.496	1
	25	9076050	S304P-Z25	2CDS384001R0518		0.496	1
	32	9076036	S304P-Z32	2CDS384001R0538		0.496	1
	40	9076012	S304P-Z40	2CDS384001R0558		0.496	1
	50	9075992	S304P-Z50	2CDS384001R0578		0.496	1
	63	9075978	S304P-Z63	2CDS384001R0608		0.496	1

MCBs

S 300 series P-Z characteristic

With disconnecting neutral NA

NEW



S 301 P NA



S 303 P NA

Number of poles	Rated current In A	Bbn 401677 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+NA	0,5	9079679	S301P-Z0,5NA	2CDS381103R0158		0.248	5
	1	9079587	S301P-Z1NA	2CDS381103R0218		0.248	5
	1,6	9079532	S301P-Z1,6NA	2CDS381103R0258		0.248	5
	2	9079518	S301P-Z2NA	2CDS381103R0278		0.248	5
	3	9079495	S301P-Z3NA	2CDS381103R0318		0.248	5
	4	9079440	S301P-Z4NA	2CDS381103R0338		0.248	5
	6	9079426	S301P-Z6NA	2CDS381103R0378		0.248	5
	8	9079372	S301P-Z8NA	2CDS381103R0408		0.248	5
	10	9079358	S301P-Z10NA	2CDS381103R0428		0.248	5
	16	9079327	S301P-Z16NA	2CDS381103R0468		0.248	5
	20	9135672	S301P-Z20NA	2CDS381103R0488		0.248	5
	25	9079259	S301P-Z25NA	2CDS381103R0518		0.248	5
	32	9079235	S301P-Z32NA	2CDS381103R0538		0.248	5
	40	9079211	S301P-Z40NA	2CDS381103R0558		0.248	5
	50	9079198	S301P-Z50NA	2CDS381103R0578		0.248	5
	63	9079174	S301P-Z63NA	2CDS381103R0608		0.248	5
3+NA	0,5	9077279	S303P-Z0,5NA	2CDS383103R0158		0.496	1
	1	9077187	S303P-Z1NA	2CDS383103R0218		0.496	1
	1,6	9077132	S303P-Z1,6NA	2CDS383103R0258		0.496	1
	2	9077118	S303P-Z2NA	2CDS383103R0278		0.496	1
	3	9077095	S303P-Z3NA	2CDS383103R0318		0.496	1
	4	9077040	S303P-Z4NA	2CDS383103R0338		0.496	1
	6	9077026	S303P-Z6NA	2CDS383103R0378		0.496	1
	8	9076975	S303P-Z8NA	2CDS383103R0408		0.496	1
	10	9076951	S303P-Z10NA	2CDS383103R0428		0.496	1
	16	9076920	S303P-Z16NA	2CDS383103R0468		0.496	1
	20	9135610	S303P-Z20NA	2CDS383103R0488		0.496	1
	25	9076852	S303P-Z25NA	2CDS383103R0518		0.496	1
	32	9076838	S303P-Z32NA	2CDS383103R0538		0.496	1
	40	9076814	S303P-Z40NA	2CDS383103R0558		0.496	1
	50	9076791	S303P-Z50NA	2CDS383103R0578		0.496	1
	63	9076777	S303P-Z63NA	2CDS383103R0608		0.496	1

MCBs

S 200 series P-B characteristic



S 201 P



S 202 P



S 203 P

S 200 P-B characteristic
Function: protection and control of the circuits against overloads and short-circuits; protection for people and large length of cables in TN and IT systems.
Applications: commercial and industrial.
Standard: IEC/EN 60898-1, IEC/EN 60947-2
Icn=Icu=25 kA for 0.5 A≤In≤25 A
Icn=Icu=15 kA for 32 A≤In≤63 A

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	6	589574	S201P-B6	2CDS281001R0065		0.14	10
	10	589581	S201P-B10	2CDS281001R0105		0.14	10
	13	589598	S201P-B13	2CDS281001R0135		0.14	10
	16	589260	S201P-B16	2CDS281001R0165		0.14	10
	20	589604	S201P-B20	2CDS281001R0205		0.14	10
	25	589611	S201P-B25	2CDS281001R0255		0.14	10
	32	589628	S201P-B32	2CDS281001R0325		0.14	10
	40	589635	S201P-B40	2CDS281001R0405		0.14	10
	50	589659	S201P-B50	2CDS281001R0505		0.14	10
	63	589666	S201P-B63	2CDS281001R0635		0.14	10
2	6	589673	S202P-B6	2CDS282001R0065		0.28	5
	10	589680	S202P-B10	2CDS282001R0105		0.28	5
	13	589697	S202P-B13	2CDS282001R0135		0.28	5
	16	589703	S202P-B16	2CDS282001R0165		0.28	5
	20	589710	S202P-B20	2CDS282001R0205		0.28	5
	25	589727	S202P-B25	2CDS282001R0255		0.28	5
	32	589734	S202P-B32	2CDS282001R0325		0.28	5
	40	589741	S202P-B40	2CDS282001R0405		0.28	5
	50	589758	S202P-B50	2CDS282001R0505		0.28	5
	63	589765	S202P-B63	2CDS282001R0635		0.28	5
3	6	589772	S203P-B6	2CDS283001R0065		0.42	1
	10	589789	S203P-B10	2CDS283001R0105		0.42	1
	13	589796	S203P-B13	2CDS283001R0135		0.42	1
	16	589802	S203P-B16	2CDS283001R0165		0.42	1
	20	589819	S203P-B20	2CDS283001R0205		0.42	1
	25	589826	S203P-B25	2CDS283001R0255		0.42	1
	32	589833	S203P-B32	2CDS283001R0325		0.42	1
	40	589840	S203P-B40	2CDS283001R0405		0.42	1
	50	589857	S203P-B50	2CDS283001R0505		0.42	1
	63	589864	S203P-B63	2CDS283001R0635		0.42	1

MCBs

S 200 series P-B characteristic



S 204 P

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
4	6	589871	S204P-B6	2CDS284001R0065		0.56	1
	10	589888	S204P-B10	2CDS284001R0105		0.56	1
	13	589895	S204P-B13	2CDS284001R0135		0.56	1
	16	589901	S204P-B16	2CDS284001R0165		0.56	1
	20	589918	S204P-B20	2CDS284001R0205		0.56	1
	25	589925	S204P-B25	2CDS284001R0255		0.56	1
	32	589932	S204P-B32	2CDS284001R0325		0.56	1
	40	589949	S204P-B40	2CDS284001R0405		0.56	1
	50	589956	S204P-B50	2CDS284001R0505		0.56	1
	63	589963	S204P-B63	2CDS284001R0635		0.56	1

With disconnecting neutral NA



S 201 P NA



S 203 P NA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+NA	6	589970	S201P-B6NA	2CDS281103R0065		0.28	5
	10	589987	S201P-B10NA	2CDS281103R0105		0.28	5
	13	589994	S201P-B13NA	2CDS281103R0135		0.28	5
	16	590006	S201P-B16NA	2CDS281103R0165		0.28	5
	20	590013	S201P-B20NA	2CDS281103R0205		0.28	5
	25	590020	S201P-B25NA	2CDS281103R0255		0.28	5
	32	590037	S201P-B32NA	2CDS281103R0325		0.28	5
	40	590044	S201P-B40NA	2CDS281103R0405		0.28	5
	50	590051	S201P-B50NA	2CDS281103R0505		0.28	5
	63	590068	S201P-B63NA	2CDS281103R0635		0.28	5
3+NA	6	590075	S203P-B6NA	2CDS283103R0065		0.56	1
	10	590082	S203P-B10NA	2CDS283103R0105		0.56	1
	13	590099	S203P-B13NA	2CDS283103R0135		0.56	1
	16	590105	S203P-B16NA	2CDS283103R0165		0.56	1
	20	590112	S203P-B20NA	2CDS283103R0205		0.56	1
	25	590129	S203P-B25NA	2CDS283103R0255		0.56	1
	32	590136	S203P-B32NA	2CDS283103R0325		0.56	1
	40	590143	S203P-B40NA	2CDS283103R0405		0.56	1
	50	590150	S203P-B50NA	2CDS283103R0505		0.56	1
	63	590167	S203P-B63NA	2CDS283103R0635		0.56	1

MCBs

S 200 series P-B characteristic



S 201 P



S 202 P

S 200 P-C characteristic
Function: protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current.
Applications: commercial and industrial.
Standard: IEC/EN 60898-1, IEC/EN 60947-2
Icn=Icu=25 kA for 0.5 A≤In≤25 A
Icn=Icu=15 kA for 32 A≤In≤63 A

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0.5	590174	S201P-C0.5	2CDS281001R0984		0.14	10
	1	590181	S201P-C1	2CDS281001R0014		0.14	10
	1.6	590198	S201P-C1.6	2CDS281001R0974		0.14	10
	2	590204	S201P-C2	2CDS281001R0024		0.14	10
	3	590211	S201P-C3	2CDS281001R0034		0.14	10
	4	590228	S201P-C4	2CDS281001R0044		0.14	10
	6	590235	S201P-C6	2CDS281001R0064		0.14	10
	8	590242	S201P-C8	2CDS281001R0084		0.14	10
	10	590259	S201P-C10	2CDS281001R0104		0.14	10
	13	590266	S201P-C13	2CDS281001R0134		0.14	10
	16	590273	S201P-C16	2CDS281001R0164		0.14	10
	20	590280	S201P-C20	2CDS281001R0204		0.14	10
	25	590297	S201P-C25	2CDS281001R0254		0.14	10
	32	590303	S201P-C32	2CDS281001R0324		0.14	10
	40	590310	S201P-C40	2CDS281001R0404		0.14	10
	50	590327	S201P-C50	2CDS281001R0504		0.14	10
	63	590334	S201P-C63	2CDS281001R0634		0.14	10
2	0.5	590341	S202P-C0.5	2CDS282001R0984		0.28	5
	1	590358	S202P-C1	2CDS282001R0014		0.28	5
	1.6	590365	S202P-C1.6	2CDS282001R0974		0.28	5
	2	590372	S202P-C2	2CDS282001R0024		0.28	5
	3	590389	S202P-C3	2CDS282001R0034		0.28	5
	4	590396	S202P-C4	2CDS282001R0044		0.28	5
	6	590402	S202P-C6	2CDS282001R0064		0.28	5
	8	590419	S202P-C8	2CDS282001R0084		0.28	5
	10	590426	S202P-C10	2CDS282001R0104		0.28	5
	13	590433	S202P-C13	2CDS282001R0134		0.28	5
	16	590440	S202P-C16	2CDS282001R0164		0.28	5
	20	590457	S202P-C20	2CDS282001R0204		0.28	5
	25	590464	S202P-C25	2CDS282001R0254		0.28	5
	32	590471	S202P-C32	2CDS282001R0324		0.28	5
	40	590488	S202P-C40	2CDS282001R0404		0.28	5
	50	590495	S202P-C50	2CDS282001R0504		0.28	5
	63	590501	S202P-C63	2CDS282001R0634		0.28	5

MCBs

S 200 series P-C characteristic



S 203 P



S 204 P

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	0.5	590518	S203P-C0.5	2CDS283001R0984		0.42	1
	1	590525	S203P-C1	2CDS283001R0014		0.42	1
	1.6	590532	S203P-C1.6	2CDS283001R0974		0.42	1
	2	590549	S203P-C2	2CDS283001R0024		0.42	1
	3	590556	S203P-C3	2CDS283001R0034		0.42	1
	4	590563	S203P-C4	2CDS283001R0044		0.42	1
	6	590570	S203P-C6	2CDS283001R0064		0.42	1
	8	590587	S203P-C8	2CDS283001R0084		0.42	1
	10	590594	S203P-C10	2CDS283001R0104		0.42	1
	13	590600	S203P-C13	2CDS283001R0134		0.42	1
	16	590617	S203P-C16	2CDS283001R0164		0.42	1
	20	590624	S203P-C20	2CDS283001R0204		0.42	1
	25	590631	S203P-C25	2CDS283001R0254		0.42	1
	32	590648	S203P-C32	2CDS283001R0324		0.42	1
	40	590655	S203P-C40	2CDS283001R0404		0.42	1
	50	590662	S203P-C50	2CDS283001R0504		0.42	1
	63	590679	S203P-C63	2CDS283001R0634		0.42	1
4	0.5	590686	S204P-C0.5	2CDS284001R0984		0.56	1
	1	590693	S204P-C1	2CDS284001R0014		0.56	1
	1.6	590709	S204P-C1.6	2CDS284001R0974		0.56	1
	2	590716	S204P-C2	2CDS284001R0024		0.56	1
	3	590723	S204P-C3	2CDS284001R0034		0.56	1
	4	590730	S204P-C4	2CDS284001R0044		0.56	1
	6	590747	S204P-C6	2CDS284001R0064		0.56	1
	8	590754	S204P-C8	2CDS284001R0084		0.56	1
	10	590761	S204P-C10	2CDS284001R0104		0.56	1
	13	590778	S204P-C13	2CDS284001R0134		0.56	1
	16	590785	S204P-C16	2CDS284001R0164		0.56	1
	20	590792	S204P-C20	2CDS284001R0204		0.56	1
	25	590808	S204P-C25	2CDS284001R0254		0.56	1
	32	590815	S204P-C32	2CDS284001R0324		0.56	1
	40	590822	S204P-C40	2CDS284001R0404		0.56	1
	50	590839	S204P-C50	2CDS284001R0504		0.56	1
	63	590846	S204P-C63	2CDS284001R0634		0.56	1

MCBs

S 200 series P-C characteristic



S 201 P NA



S 203 P NA

With disconnecting neutral NA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+NA	0.5	590853	S201P-C0.5NA	2CDS281103R0984		0.28	5
	1	590860	S201P-C1NA	2CDS281103R0014		0.28	5
	1.6	590877	S201P-C1.6NA	2CDS281103R0974		0.28	5
	2	590884	S201P-C2NA	2CDS281103R0024		0.28	5
	3	590891	S201P-C3NA	2CDS281103R0034		0.28	5
	4	590907	S201P-C4NA	2CDS281103R0044		0.28	5
	6	590914	S201P-C6NA	2CDS281103R0064		0.28	5
	8	590921	S201P-C8NA	2CDS281103R0084		0.28	5
	10	590938	S201P-C10NA	2CDS281103R0104		0.28	5
	13	590945	S201P-C13NA	2CDS281103R0134		0.28	5
	16	590952	S201P-C16NA	2CDS281103R0164		0.28	5
	20	590969	S201P-C20NA	2CDS281103R0204		0.28	5
	25	590976	S201P-C25NA	2CDS281103R0254		0.28	5
	32	590983	S201P-C32NA	2CDS281103R0324		0.28	5
	40	590990	S201P-C40NA	2CDS281103R0404		0.28	5
	50	591003	S201P-C50NA	2CDS281103R0504		0.28	5
	63	591010	S201P-C63NA	2CDS281103R0634		0.28	5
3+NA	0.5	591027	S203P-C0.5NA	2CDS283103R0984		0.56	1
	1	591034	S203P-C1NA	2CDS283103R0014		0.56	1
	1.6	591041	S203P-C1.6NA	2CDS283103R0974		0.56	1
	2	591058	S203P-C2NA	2CDS283103R0024		0.56	1
	3	591065	S203P-C3NA	2CDS283103R0034		0.56	1
	4	591072	S203P-C4NA	2CDS283103R0044		0.56	1
	6	591089	S203P-C6NA	2CDS283103R0064		0.56	1
	8	591096	S203P-C8NA	2CDS283103R0084		0.56	1
	10	591102	S203P-C10NA	2CDS283103R0104		0.56	1
	13	591119	S203P-C13NA	2CDS283103R0134		0.56	1
	16	591126	S203P-C16NA	2CDS283103R0164		0.56	1
	20	591133	S203P-C20NA	2CDS283103R0204		0.56	1
	25	591140	S203P-C25NA	2CDS283103R0254		0.56	1
	32	591157	S203P-C32NA	2CDS283103R0324		0.56	1
	40	591164	S203P-C40NA	2CDS283103R0404		0.56	1
	50	591171	S203P-C50NA	2CDS283103R0504		0.56	1
	63	591188	S203P-C63NA	2CDS283103R0634		0.56	1

MCBs

S 200 series P-D characteristic



S 201 P



S 202 P

S 200 P-D characteristic

Function: protection and control of the circuits against overloads and short-circuits; protection for circuits which supply loads with high inrush current at the circuit closing (LV/LV transformers, breakdown lamps).

Applications: commercial and industrial.

Standard: IEC/EN 60898-1, IEC/EN 60947-2

Icn=Icu=25 kA for 0.5 A≤In≤25 A

Icn=Icu=15 kA for 32 A≤In≤63 A

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0.5	591195	S201P-D0.5	2CDS281001R0981		0.14	10
	1	591201	S201P-D1	2CDS281001R0011		0.14	10
	1.6	591218	S201P-D1.6	2CDS281001R0971		0.14	10
	2	591225	S201P-D2	2CDS281001R0021		0.14	10
	3	591232	S201P-D3	2CDS281001R0031		0.14	10
	4	591249	S201P-D4	2CDS281001R0041		0.14	10
	6	591256	S201P-D6	2CDS281001R0061		0.14	10
	8	591263	S201P-D8	2CDS281001R0081		0.14	10
	10	591270	S201P-D10	2CDS281001R0101		0.14	10
	13	591287	S201P-D13	2CDS281001R0131		0.14	10
	16	591294	S201P-D16	2CDS281001R0161		0.14	10
	20	591300	S201P-D20	2CDS281001R0201		0.14	10
	25	591317	S201P-D25	2CDS281001R0251		0.14	10
	32	591324	S201P-D32	2CDS281001R0321		0.14	10
	40	591331	S201P-D40	2CDS281001R0401		0.14	10
	50	591348	S201P-D50	2CDS281001R0501		0.14	10
	63	591355	S201P-D63	2CDS281001R0631		0.14	10
2	0.5	591362	S202P-D0.5	2CDS282001R0981		0.28	5
	1	591379	S202P-D1	2CDS282001R0011		0.28	5
	1.6	591386	S202P-D1.6	2CDS282001R0971		0.28	5
	2	591393	S202P-D2	2CDS282001R0021		0.28	5
	3	591409	S202P-D3	2CDS282001R0031		0.28	5
	4	591416	S202P-D4	2CDS282001R0041		0.28	5
	6	591423	S202P-D6	2CDS282001R0061		0.28	5
	8	591430	S202P-D8	2CDS282001R0081		0.28	5
	10	591447	S202P-D10	2CDS282001R0101		0.28	5
	13	591454	S202P-D13	2CDS282001R0131		0.28	5
	16	591461	S202P-D16	2CDS282001R0161		0.28	5
	20	591478	S202P-D20	2CDS282001R0201		0.28	5
	25	591485	S202P-D25	2CDS282001R0251		0.28	5
	32	591492	S202P-D32	2CDS282001R0321		0.28	5
	40	591508	S202P-D40	2CDS282001R0401		0.28	5
	50	591515	S202P-D50	2CDS282001R0501		0.28	5
	63	591522	S202P-D63	2CDS282001R0631		0.28	5

MCBs

S 200 series P-D characteristic



S 203 P



S 204 P

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	0.5	591539	S203P-D0.5	2CDS283001R0981		0.42	1
	1	591546	S203P-D1	2CDS283001R0011		0.42	1
	1.6	591553	S203P-D1.6	2CDS283001R0971		0.42	1
	2	591560	S203P-D2	2CDS283001R0021		0.42	1
	3	591577	S203P-D3	2CDS283001R0031		0.42	1
	4	591584	S203P-D4	2CDS283001R0041		0.42	1
	6	591591	S203P-D6	2CDS283001R0061		0.42	1
	8	591607	S203P-D8	2CDS283001R0081		0.42	1
	10	591614	S203P-D10	2CDS283001R0101		0.42	1
	13	591621	S203P-D13	2CDS283001R0131		0.42	1
	16	591638	S203P-D16	2CDS283001R0161		0.42	1
	20	591645	S203P-D20	2CDS283001R0201		0.42	1
	25	591652	S203P-D25	2CDS283001R0251		0.42	1
	32	591669	S203P-D32	2CDS283001R0321		0.42	1
	40	591676	S203P-D40	2CDS283001R0401		0.42	1
	50	591683	S203P-D50	2CDS283001R0501		0.42	1
	63	591690	S203P-D63	2CDS283001R0631		0.42	1
4	0.5	591706	S204P-D0.5	2CDS284001R0981		0.56	1
	1	591713	S204P-D1	2CDS284001R0011		0.56	1
	1.6	591720	S204P-D1.6	2CDS284001R0971		0.56	1
	2	591737	S204P-D2	2CDS284001R0021		0.56	1
	3	591744	S204P-D3	2CDS284001R0031		0.56	1
	4	591751	S204P-D4	2CDS284001R0041		0.56	1
	6	591768	S204P-D6	2CDS284001R0061		0.56	1
	8	591775	S204P-D8	2CDS284001R0081		0.56	1
	10	591782	S204P-D10	2CDS284001R0101		0.56	1
	13	591799	S204P-D13	2CDS284001R0131		0.56	1
	16	591805	S204P-D16	2CDS284001R0161		0.56	1
	20	591812	S204P-D20	2CDS284001R0201		0.56	1
	25	591829	S204P-D25	2CDS284001R0251		0.56	1
	32	591836	S204P-D32	2CDS284001R0321		0.56	1
	40	591843	S204P-D40	2CDS284001R0401		0.56	1
	50	591850	S204P-D50	2CDS284001R0501		0.56	1
	63	591867	S204P-D63	2CDS284001R0631		0.56	1

MCBs

S 200 series P-D characteristic



S 201 P NA



S 203 P NA

With disconnecting neutral NA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+NA	0.5	591874	S201P-D0.5NA	2CDS281103R0981		0.28	5
	1	591881	S201P-D1NA	2CDS281103R0011		0.28	5
	1.6	591898	S201P-D1.6NA	2CDS281103R0971		0.28	5
	2	591904	S201P-D2NA	2CDS281103R0021		0.28	5
	3	591911	S201P-D3NA	2CDS281103R0031		0.28	5
	4	591928	S201P-D4NA	2CDS281103R0041		0.28	5
	6	591935	S201P-D6NA	2CDS281103R0061		0.28	5
	8	591942	S201P-D8NA	2CDS281103R0081		0.28	5
	10	591959	S201P-D10NA	2CDS281103R0101		0.28	5
	13	591966	S201P-D13NA	2CDS281103R0131		0.28	5
	16	591973	S201P-D16NA	2CDS281103R0161		0.28	5
	20	591980	S201P-D20NA	2CDS281103R0201		0.28	5
	25	591997	S201P-D25NA	2CDS281103R0251		0.28	5
	32	592000	S201P-D32NA	2CDS281103R0321		0.28	5
	40	592017	S201P-D40NA	2CDS281103R0401		0.28	5
	50	592024	S201P-D50NA	2CDS281103R0501		0.28	5
	63	592031	S201P-D63NA	2CDS281103R0631		0.28	5
3+NA	0.5	592048	S203P-D0.5NA	2CDS283103R0981		0.56	1
	1	592055	S203P-D1NA	2CDS283103R0011		0.56	1
	1.6	592062	S203P-D1.6NA	2CDS283103R0971		0.56	1
	2	592079	S203P-D2NA	2CDS283103R0021		0.56	1
	3	592086	S203P-D3NA	2CDS283103R0031		0.56	1
	4	592093	S203P-D4NA	2CDS283103R0041		0.56	1
	6	592109	S203P-D6NA	2CDS283103R0061		0.56	1
	8	592116	S203P-D8NA	2CDS283103R0081		0.56	1
	10	592123	S203P-D10NA	2CDS283103R0101		0.56	1
	13	592130	S203P-D13NA	2CDS283103R0131		0.56	1
	16	592147	S203P-D16NA	2CDS283103R0161		0.56	1
	20	592154	S203P-D20NA	2CDS283103R0201		0.56	1
	25	592161	S203P-D25NA	2CDS283103R0251		0.56	1
	32	592178	S203P-D32NA	2CDS283103R0321		0.56	1
	40	592185	S203P-D40NA	2CDS283103R0401		0.56	1
	50	592192	S203P-D50NA	2CDS283103R0501		0.56	1
	63	592208	S203P-D63NA	2CDS283103R0631		0.56	1

MCBs

S 200 series P-K characteristic



S 201 P

S 200 P-K (power) characteristic
Function: protection and control of the circuits like motors, transformers and auxiliary circuits, against overloads and short-circuits.
Advantages: no nuisance tripping in the case of functional peak currents up to 10xIn, depending on the series; through its highly sensitive thermostatic bimetal trip, the K-type characteristic offers protection to damageable elements in the overcurrent range; it also provides the best protection to cables and lines.
Applications: commercial and industrial.
Standard: IEC/EN 60947-2
Icu=25 kA for 0.2 A≤In≤25 A; Icu=15 kA for 32 A≤In≤63 A

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0.2	592215	S201P-K0.2	2CDS281001R0087		0.14	10
	0.3	592222	S201P-K0.3	2CDS281001R0117		0.14	10
	0.5	592239	S201P-K0.5	2CDS281001R0157		0.14	10
	0.75	592246	S201P-K0.75	2CDS281001R0187		0.14	10
	1	592253	S201P-K1	2CDS281001R0217		0.14	10
	1.6	592260	S201P-K1.6	2CDS281001R0257		0.14	10
	2	592277	S201P-K2	2CDS281001R0277		0.14	10
	3	592284	S201P-K3	2CDS281001R0317		0.14	10
	4	592291	S201P-K4	2CDS281001R0337		0.14	10
	6	592307	S201P-K6	2CDS281001R0377		0.14	10
	8	592314	S201P-K8	2CDS281001R0407		0.14	10
	10	592321	S201P-K10	2CDS281001R0427		0.14	10
	13	592338	S201P-K13	2CDS281001R0447		0.14	10
	16	592345	S201P-K16	2CDS281001R0467		0.14	10
	20	592352	S201P-K20	2CDS281001R0487		0.14	10
	25	592369	S201P-K25	2CDS281001R0517		0.14	10
	32	592376	S201P-K32	2CDS281001R0537		0.14	10
	40	592383	S201P-K40	2CDS281001R0557		0.14	10
	50	592390	S201P-K50	2CDS281001R0577		0.14	10
	63	592406	S201P-K63	2CDS281001R0607		0.14	10

MCBs

S 200 series P-K characteristic



S 202 P



S 203 P

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
2	0.2	592413	S202P-K0.2	2CDS282001R0087		0.28	5
	0.3	592420	S202P-K0.3	2CDS282001R0117		0.28	5
	0.5	592437	S202P-K0.5	2CDS282001R0157		0.28	5
	0.75	592444	S202P-K0.75	2CDS282001R0187		0.28	5
	1	592451	S202P-K1	2CDS282001R0217		0.28	5
	1.6	592468	S202P-K1.6	2CDS282001R0257		0.28	5
	2	592475	S202P-K2	2CDS282001R0277		0.28	5
	3	592482	S202P-K3	2CDS282001R0317		0.28	5
	4	592499	S202P-K4	2CDS282001R0337		0.28	5
	6	592505	S202P-K6	2CDS282001R0377		0.28	5
	8	592512	S202P-K8	2CDS282001R0407		0.28	5
	10	592529	S202P-K10	2CDS282001R0427		0.28	5
	13	592536	S202P-K13	2CDS282001R0447		0.28	5
	16	592543	S202P-K16	2CDS282001R0467		0.28	5
	20	592550	S202P-K20	2CDS282001R0487		0.28	5
	25	592567	S202P-K25	2CDS282001R0517		0.28	5
	32	592574	S202P-K32	2CDS282001R0537		0.28	5
	40	592581	S202P-K40	2CDS282001R0557		0.28	5
	50	592598	S202P-K50	2CDS282001R0577		0.28	5
	63	592604	S202P-K63	2CDS282001R0607		0.28	5
3	0.2	592611	S203P-K0.2	2CDS283001R0087		0.42	1
	0.3	592628	S203P-K0.3	2CDS283001R0117		0.42	1
	0.5	592635	S203P-K0.5	2CDS283001R0157		0.42	1
	0.75	592642	S203P-K0.75	2CDS283001R0187		0.42	1
	1	592659	S203P-K1	2CDS283001R0217		0.42	1
	1.6	592666	S203P-K1.6	2CDS283001R0257		0.42	1
	2	592673	S203P-K2	2CDS283001R0277		0.42	1
	3	592680	S203P-K3	2CDS283001R0317		0.42	1
	4	592697	S203P-K4	2CDS283001R0337		0.42	1
	6	592703	S203P-K6	2CDS283001R0377		0.42	1
	8	592710	S203P-K8	2CDS283001R0407		0.42	1
	10	592727	S203P-K10	2CDS283001R0427		0.42	1
	13	592734	S203P-K13	2CDS283001R0447		0.42	1
	16	592741	S203P-K16	2CDS283001R0467		0.42	1
	20	592758	S203P-K20	2CDS283001R0487		0.42	1
	25	592765	S203P-K25	2CDS283001R0517		0.42	1
	32	592772	S203P-K32	2CDS283001R0537		0.42	1
	40	592789	S203P-K40	2CDS283001R0557		0.42	1
	50	592796	S203P-K50	2CDS283001R0577		0.42	1
	63	592802	S203P-K63	2CDS283001R0607		0.42	1

MCBs

S 200 series P-K characteristic



S 204 P

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
4	0.2	592819	S204P-K0.2	2CDS284001R0087		0.56	1
	0.3	592826	S204P-K0.3	2CDS284001R0117		0.56	1
	0.5	592833	S204P-K0.5	2CDS284001R0157		0.56	1
	0.75	592840	S204P-K0.75	2CDS284001R0187		0.56	1
	1	592857	S204P-K1	2CDS284001R0217		0.56	1
	1.6	592864	S204P-K1.6	2CDS284001R0257		0.56	1
	2	592871	S204P-K2	2CDS284001R0277		0.56	1
	3	592888	S204P-K3	2CDS284001R0317		0.56	1
	4	592895	S204P-K4	2CDS284001R0337		0.56	1
	6	592901	S204P-K6	2CDS284001R0377		0.56	1
	8	592918	S204P-K8	2CDS284001R0407		0.56	1
	10	592925	S204P-K10	2CDS284001R0427		0.56	1
	13	592932	S204P-K13	2CDS284001R0447		0.56	1
	16	592949	S204P-K16	2CDS284001R0467		0.56	1
	20	592956	S204P-K20	2CDS284001R0487		0.56	1
	25	592963	S204P-K25	2CDS284001R0517		0.56	1
	32	592970	S204P-K32	2CDS284001R0537		0.56	1
	40	592987	S204P-K40	2CDS284001R0557		0.56	1
	50	592994	S204P-K50	2CDS284001R0577		0.56	1
	63	593007	S204P-K63	2CDS284001R0607		0.56	1

With disconnecting neutral NA



S 201 P NA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+NA	0.2	593014	S201P-K0.2NA	2CDS281103R0087		0.28	5
	0.3	593021	S201P-K0.3NA	2CDS281103R0117		0.28	5
	0.5	593038	S201P-K0.5NA	2CDS281103R0157		0.28	5
	0.75	593045	S201P-K0.75NA	2CDS281103R0187		0.28	5
	1	593052	S201P-K1NA	2CDS281103R0217		0.28	5
	1.6	593069	S201P-K1.6NA	2CDS281103R0257		0.28	5
	2	593076	S201P-K2NA	2CDS281103R0277		0.28	5
	3	593083	S201P-K3NA	2CDS281103R0317		0.28	5
	4	593090	S201P-K4NA	2CDS281103R0337		0.28	5
	6	593106	S201P-K6NA	2CDS281103R0377		0.28	5
	8	593113	S201P-K8NA	2CDS281103R0407		0.28	5
	10	593120	S201P-K10NA	2CDS281103R0427		0.28	5
	13	593137	S201P-K13NA	2CDS281103R0447		0.28	5
	16	593144	S201P-K16NA	2CDS281103R0467		0.28	5
	20	593151	S201P-K20NA	2CDS281103R0487		0.28	5
	25	593168	S201P-K25NA	2CDS281103R0517		0.28	5
	32	593175	S201P-K32NA	2CDS281103R0537		0.28	5
	40	593182	S201P-K40NA	2CDS281103R0557		0.28	5
	50	593199	S201P-K50NA	2CDS281103R0577		0.28	5
	63	593205	S201P-K63NA	2CDS281103R0607		0.28	5

MCBs

S 200 series P-K characteristic



S 203 P NA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3+NA	0.2	593212	S203P-K0.2NA	2CDS283103R0087		0.56	2
	0.3	593229	S203P-K0.3NA	2CDS283103R0117		0.56	2
	0.5	593236	S203P-K0.5NA	2CDS283103R0157		0.56	2
	0.75	593243	S203P-K0.75NA	2CDS283103R0187		0.56	2
	1	593250	S203P-K1NA	2CDS283103R0217		0.56	2
	1.6	593267	S203P-K1.6NA	2CDS283103R0257		0.56	2
	2	593274	S203P-K2NA	2CDS283103R0277		0.56	2
	3	593281	S203P-K3NA	2CDS283103R0317		0.56	2
	4	593298	S203P-K4NA	2CDS283103R0337		0.56	2
	6	593304	S203P-K6NA	2CDS283103R0377		0.56	2
	8	593311	S203P-K8NA	2CDS283103R0407		0.56	2
	10	593328	S203P-K10NA	2CDS283103R0427		0.56	2
	13	593335	S203P-K13NA	2CDS283103R0447		0.56	2
	16	593342	S203P-K16NA	2CDS283103R0467		0.56	2
	20	593359	S203P-K20NA	2CDS283103R0487		0.56	2
	25	593366	S203P-K25NA	2CDS283103R0517		0.56	2
	32	593373	S203P-K32NA	2CDS283103R0537		0.56	2
	40	593380	S203P-K40NA	2CDS283103R0557		0.56	2
	50	593397	S203P-K50NA	2CDS283103R0577		0.56	2
	63	593403	S203P-K63NA	2CDS283103R0607		0.56	2

MCBs

S 200 series P-Z characteristic



S 201 P



S 202 P

S 200 P-Z characteristic
Function: protection and control of the electronic circuits against lower and long duration overloads and short-circuits.
Applications: commercial and industrial.
Standard: IEC/EN 60947-2
Icu=25 kA for 0.5 A≤In≤25 A; Icu=15 kA for 32 A≤In≤63 A

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0.5	593410	S201P-Z0.5	2CDS281001R0158		0.14	10
	1	593427	S201P-Z1	2CDS281001R0218		0.14	10
	1.6	593434	S201P-Z1.6	2CDS281001R0258		0.14	10
	2	593441	S201P-Z2	2CDS281001R0278		0.14	10
	3	593458	S201P-Z3	2CDS281001R0318		0.14	10
	4	593465	S201P-Z4	2CDS281001R0338		0.14	10
	6	593472	S201P-Z6	2CDS281001R0378		0.14	10
	8	593489	S201P-Z8	2CDS281001R0408		0.14	10
	10	593496	S201P-Z10	2CDS281001R0428		0.14	10
	16	593502	S201P-Z16	2CDS281001R0468		0.14	10
	20	593519	S201P-Z20	2CDS281001R0488		0.14	10
	25	593526	S201P-Z25	2CDS281001R0518		0.14	10
	32	593533	S201P-Z32	2CDS281001R0538		0.14	10
	40	593540	S201P-Z40	2CDS281001R0558		0.14	10
	50	593557	S201P-Z50	2CDS281001R0578		0.14	10
	63	593564	S201P-Z63	2CDS281001R0608		0.14	10
2	0.5	593571	S202P-Z0.5	2CDS282001R0158		0.28	5
	1	593588	S202P-Z1	2CDS282001R0218		0.28	5
	1.6	593595	S202P-Z1.6	2CDS282001R0258		0.28	5
	2	593601	S202P-Z2	2CDS282001R0278		0.28	5
	3	593618	S202P-Z3	2CDS282001R0318		0.28	5
	4	593625	S202P-Z4	2CDS282001R0338		0.28	5
	6	593632	S202P-Z6	2CDS282001R0378		0.28	5
	8	593649	S202P-Z8	2CDS282001R0408		0.28	5
	10	593656	S202P-Z10	2CDS282001R0428		0.28	5
	16	593663	S202P-Z16	2CDS282001R0468		0.28	5
	20	593670	S202P-Z20	2CDS282001R0488		0.28	5
	25	593687	S202P-Z25	2CDS282001R0518		0.28	5
	32	593694	S202P-Z32	2CDS282001R0538		0.28	5
	40	593700	S202P-Z40	2CDS282001R0558		0.28	5
	50	593717	S202P-Z50	2CDS282001R0578		0.28	5
	63	593724	S202P-Z63	2CDS282001R0608		0.28	5

MCBs

S 200 series P-Z characteristic



S 203 P



S 204 P

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	0.5	593731	S203P-Z0.5	2CDS283001R0158		0.42	1
	1	593748	S203P-Z1	2CDS283001R0218		0.42	1
	1.6	593755	S203P-Z1.6	2CDS283001R0258		0.42	1
	2	593762	S203P-Z2	2CDS283001R0278		0.42	1
	3	593779	S203P-Z3	2CDS283001R0318		0.42	1
	4	593786	S203P-Z4	2CDS283001R0338		0.42	1
	6	593793	S203P-Z6	2CDS283001R0378		0.42	1
	8	593809	S203P-Z8	2CDS283001R0408		0.42	1
	10	593816	S203P-Z10	2CDS283001R0428		0.42	1
	16	593823	S203P-Z16	2CDS283001R0468		0.42	1
	20	593830	S203P-Z20	2CDS283001R0488		0.42	1
	25	593847	S203P-Z25	2CDS283001R0518		0.42	1
	32	593854	S203P-Z32	2CDS283001R0538		0.42	1
	40	593861	S203P-Z40	2CDS283001R0558		0.42	1
	50	593878	S203P-Z50	2CDS283001R0578		0.42	1
	63	593885	S203P-Z63	2CDS283001R0608		0.42	1
4	0.5	593892	S204P-Z0.5	2CDS284001R0158		0.56	1
	1	593908	S204P-Z1	2CDS284001R0218		0.56	1
	1.6	593915	S204P-Z1.6	2CDS284001R0258		0.56	1
	2	593922	S204P-Z2	2CDS284001R0278		0.56	1
	3	593939	S204P-Z3	2CDS284001R0318		0.56	1
	4	593946	S204P-Z4	2CDS284001R0338		0.56	1
	6	593953	S204P-Z6	2CDS284001R0378		0.56	1
	8	593960	S204P-Z8	2CDS284001R0408		0.56	1
	10	593977	S204P-Z10	2CDS284001R0428		0.56	1
	16	593984	S204P-Z16	2CDS284001R0468		0.56	1
	20	593991	S204P-Z20	2CDS284001R0488		0.56	1
	25	594004	S204P-Z25	2CDS284001R0518		0.56	1
	32	594011	S204P-Z32	2CDS284001R0538		0.56	1
	40	594028	S204P-Z40	2CDS284001R0558		0.56	1
	50	594035	S204P-Z50	2CDS284001R0578		0.56	1
	63	594042	S204P-Z63	2CDS284001R0608		0.56	1

MCBs

S 200 series P-Z characteristic



S 201 P NA



S 203 P NA

With disconnecting neutral NA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+NA	0.5	594059	S201P-Z0.5NA	2CDS281103R0158		0.28	5
	1	594066	S201P-Z1NA	2CDS281103R0218		0.28	5
	1.6	594073	S201P-Z1.6NA	2CDS281103R0258		0.28	5
	2	594080	S201P-Z2NA	2CDS281103R0278		0.28	5
	3	594097	S201P-Z3NA	2CDS281103R0318		0.28	5
	4	594103	S201P-Z4NA	2CDS281103R0338		0.28	5
	6	594110	S201P-Z6NA	2CDS281103R0378		0.28	5
	8	594127	S201P-Z8NA	2CDS281103R0408		0.28	5
	10	594134	S201P-Z10NA	2CDS281103R0428		0.28	5
	16	594141	S201P-Z16NA	2CDS281103R0468		0.28	5
	20	594158	S201P-Z20NA	2CDS281103R0488		0.28	5
	25	594165	S201P-Z25NA	2CDS281103R0518		0.28	5
	32	594172	S201P-Z32NA	2CDS281103R0538		0.28	5
	40	594189	S201P-Z40NA	2CDS281103R0558		0.28	5
	50	594196	S201P-Z50NA	2CDS281103R0578		0.28	5
	63	594202	S201P-Z63NA	2CDS281103R0608		0.28	5
3+NA	0.5	594219	S203P-Z0.5NA	2CDS283103R0158		0.56	1
	1	594226	S203P-Z1NA	2CDS283103R0218		0.56	1
	1.6	594233	S203P-Z1.6NA	2CDS283103R0258		0.56	1
	2	594240	S203P-Z2NA	2CDS283103R0278		0.56	1
	3	594257	S203P-Z3NA	2CDS283103R0318		0.56	1
	4	594264	S203P-Z4NA	2CDS283103R0338		0.56	1
	6	594271	S203P-Z6NA	2CDS283103R0378		0.56	1
	8	594288	S203P-Z8NA	2CDS283103R0408		0.56	1
	10	594295	S203P-Z10NA	2CDS283103R0428		0.56	1
	16	594301	S203P-Z16NA	2CDS283103R0468		0.56	1
	20	594318	S203P-Z20NA	2CDS283103R0488		0.56	1
	25	594325	S203P-Z25NA	2CDS283103R0518		0.56	1
	32	594332	S203P-Z32NA	2CDS283103R0538		0.56	1
	40	594349	S203P-Z40NA	2CDS283103R0558		0.56	1
	50	594356	S203P-Z50NA	2CDS283103R0578		0.56	1
	63	594363	S203P-Z63NA	2CDS283103R0608		0.56	1

MCBs

S 200 series S - screwless range B and C characteristics

S 200 S-B and S 200 S-C characteristic
Function: protection and control of the circuits against overloads and short-circuits.
Applications: residential, commercial and industrial.
Standard: IEC/EN 60898-1
Icn=6 kA



S 201 S



S 203 S

S 200 S-B characteristic

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	6	709385	S201S-B6	2CDS251002R0065		0.100	10
	10	709415	S201S-B10	2CDS251002R0105		0.100	10
	13	709439	S201S-B13	2CDS251002R0135		0.100	10
	16	709453	S201S-B16	2CDS251002R0165		0.100	10
	20	709477	S201S-B20	2CDS251002R0205		0.100	10
3	6	709484	S203S-B6	2CDS253002R0065		0.300	1
	10	709514	S203S-B10	2CDS253002R0105		0.300	1
	13	709538	S203S-B13	2CDS253002R0135		0.300	1
	16	709552	S203S-B16	2CDS253002R0165		0.300	1
	20	709576	S203S-B20	2CDS253002R0205		0.300	1

S 200 S-C characteristic

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	6	756891	S201S-C6	2CDS251002R0064		0.100	10
	8	709392	S201S-C8	2CDS251002R0084		0.100	10
	10	709408	S201S-C10	2CDS251002R0104		0.100	10
	13	709422	S201S-C13	2CDS251002R0134		0.100	10
	16	709446	S201S-C16	2CDS251002R0164		0.100	10
	20	709460	S201S-C20	2CDS251002R0204		0.100	10
3	6	709378	S203S-C6	2CDS253002R0064		0.300	1
	8	709491	S203S-C8	2CDS253002R0084		0.300	1
	10	709507	S203S-C10	2CDS253002R0104		0.300	1
	13	709521	S203S-C13	2CDS253002R0134		0.300	1
	16	709545	S203S-C16	2CDS253002R0164		0.300	1
	20	709569	S203S-C20	2CDS253002R0204		0.300	1

MCBs

SU 200 M series technical characteristic

General Data		
Standards		UL 489, CSA 22.2 No. 5, IEC/EN 60947-2
Poles		1P, 2P, 3P, 4P
Tripping characteristics		C, K, Z
Rated current In		0.2 - 63 A
Rated frequency f		50 / 60 Hz, DC (0 Hz)
Rated insulation voltage Ui acc. to IEC/EN 60664-1		440 V AC (phase to phase)
Overvoltage category		III
Pollution degree		3
IEC/EN 60947-2		
Rated operational voltage Ue		1P: 230 V AC; 2P, 3P, 4P: 400 V AC
Max. power frequency recovery voltage Umax AC		1P: 253 V AC; 2P, 3P, 4P: 440 V AC
Min. operating voltage		12 V AC, 12 V DC
Rated ultimate short-circuit breaking capacity Icu		15 kA
Rated service short-circuit breaking capacity Ics		≤ 40 A: 11.25 kA
		> 40 A: 7.5 kA
Rated impulse withstand voltage Uimp (1.2/50µs)		4 kV (test voltage 6.2 kV at sea level, 5 kV at 2,000 m)
Dielectric test voltage		2 kV (50 / 60Hz, 1 min.)
Reference temperature for tripping characteristics		30 °C
Electrical endurance		In < 30 A: 20,000 ops (AC), In ≥ 30 A: 10,000 ops. (AC);
		1 cycle (2 s - ON, 13 s - OFF, In ≤ 32 A), 1 cycle (2 s - ON, 28 s - OFF, In > 32 A)
UL / CSA		
Rated voltage	AC	1P: 277 V AC up to 40 A for C, Z char.,
	AC	277 V AC up to 35 A for K char., 240 V AC
	AC	2P, 3P, 4P: 480 Y / 277 V AC up to 40 A for C, Z char.,
	AC	480 Y / 277 V AC up to 35 A for K char., 240 V AC
	DC	1P: 48 V DC; 2P: 96 V DC (2p in series)
Rated interrupting capacity acc. to UL 1077		–
Short-circuit current rating acc. to UL 489		10 kA
Application		–
Reference temperature for tripping characteristics		40 °C
Electrical endurance		6,000 ops (AC), 6,000 ops. (DC); 1 cycle (1 s - ON, 9 s - OFF)

MCBs

SU 200 M series technical characteristic

Mechanical data	
Housing	Insulation group II, RAL 7035
Toggle	Insulation group II, black, sealable
Contact position indication	Real CPI (green OFF / red ON)
Protection degree acc. to DIN EN 60529	IP20*, IP40 in enclosure with cover
Mechanical endurance	20,000 ops.
Shock resistance acc. to IEC/EN 60068-2-27	25 g - 2 shocks - 13 ms
Vibration resistance acc. to IEC/EN 60068-2-6	5g - 20 cycles at 5…150…5 Hz with load 0.8 In
Environmental conditions (damp heat cyclic) acc. to IEC/EN 60068-2-30	28 cycles with 55°C/90-96% and 25°C/95-100%
Ambient temperature	-25 … +55°C
Storage temperature	-40 … +70 °C
Installation	
Terminal	Failsafe bi-directional cylinder-lift terminal
Cross-section of conductors (top/bottom)	solid, stranded: 35 mm^2 / 35 mm^2 flexible: 25 mm^2 / 25 mm^2
	18 – 4 AWG
Cross-section of busbars (top/bottom)	10 mm^2 / 10 mm^2
	18 – 8 AWG
Torque	2.8 Nm
	AWG 18-16: 13.3 in-lbs. AWG 14-10: 17.7 in-lbs. AWG 8-4: 39.8 in-lbs.
Screwdriver	No. 2 Pozidrive
Mounting	On DIN rail 35 mm acc. to EN 60715 by fast clip
Mounting position	any
Supply	optional
Dimensions and weight	
Mounting dimensions acc. to DIN 43880	Mounting dimension 3
Pole dimensions (H x D x W)	111 x 69 x 17.5 mm
Pole weight approx.	125 g
Combination with auxiliary elements	
Auxiliary contact	Yes
Signal contact	Yes
Shunt trip	Yes

* Also fulfilling the requirements acc. to the protection degree IPXXB

MCBs

SU 200 M series C characteristic

SU 200 M-C characteristic

Number of poles	Rated current	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	In A	EAN	Type code	Order code		kg	pc.
1	0.5	930741	SU201M-C0,5	2CDS271337R0984		0.125	1
	1	930758	SU201M-C1	2CDS271337R0014		0.125	1
	1.6	930765	SU201M-C1,6	2CDS271337R0974		0.125	1
	2	930772	SU201M-C2	2CDS271337R0024		0.125	1
	3	930789	SU201M-C3	2CDS271337R0034		0.125	1
	4	930796	SU201M-C4	2CDS271337R0044		0.125	1
	5	930802	SU201M-C5	2CDS271337R0054		0.125	1
	6	930819	SU201M-C6	2CDS271337R0064		0.125	1
	8	930833	SU201M-C8	2CDS271337R0084		0.125	1
	10	930840	SU201M-C10	2CDS271337R0104		0.125	1
	13	930857	SU201M-C13	2CDS271337R0134		0.125	1
	15	930864	SU201M-C15	2CDS271337R0154		0.125	1
	16	930871	SU201M-C16	2CDS271337R0164		0.125	1
	20	930888	SU201M-C20	2CDS271337R0204		0.125	1
	25	930895	SU201M-C25	2CDS271337R0254		0.125	1
	30	930901	SU201M-C30	2CDS271337R0304		0.125	1
	32	930918	SU201M-C32	2CDS271337R0324		0.125	1
	35	930925	SU201M-C35	2CDS271337R0354		0.125	1
	40	930932	SU201M-C40	2CDS271337R0404		0.125	1
	50	930949	SU201M-C50	2CDS271337R0504		0.125	1
	60	930956	SU201M-C60	2CDS271337R0604		0.125	1
	63	930963	SU201M-C63	2CDS271337R0634		0.125	1

MCBs

SU 200 M series C characteristic

Number of poles	Rated current	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	In A	EAN	Type code	Order code		kg	pc.
2	0.5	930970	SU202M-C0,5	2CDS272337R0984		0.250	1
	1	930987	SU202M-C1	2CDS272337R0014		0.250	1
	1.6	930994	SU202M-C1,6	2CDS272337R0974		0.250	1
	2	931007	SU202M-C2	2CDS272337R0024		0.250	1
	3	931014	SU202M-C3	2CDS272337R0034		0.250	1
	4	931021	SU202M-C4	2CDS272337R0044		0.250	1
	5	931038	SU202M-C5	2CDS272337R0054		0.250	1
	6	931045	SU202M-C6	2CDS272337R0064		0.250	1
	8	931069	SU202M-C8	2CDS272337R0084		0.250	1
	10	931076	SU202M-C10	2CDS272337R0104		0.250	1
	13	931083	SU202M-C13	2CDS272337R0134		0.250	1
	15	931090	SU202M-C15	2CDS272337R0154		0.250	1
	16	931106	SU202M-C16	2CDS272337R0164		0.250	1
	20	931113	SU202M-C20	2CDS272337R0204		0.250	1
	25	931120	SU202M-C25	2CDS272337R0254		0.250	1
	30	931137	SU202M-C30	2CDS272337R0304		0.250	1
	32	931144	SU202M-C32	2CDS272337R0324		0.250	1
	35	931151	SU202M-C35	2CDS272337R0354		0.250	1
	40	931168	SU202M-C40	2CDS272337R0404		0.250	1
	50	931175	SU202M-C50	2CDS272337R0504		0.250	1
	60	931182	SU202M-C60	2CDS272337R0604		0.250	1
	63	931199	SU202M-C63	2CDS272337R0634		0.250	1
3	0.5	931205	SU203M-C0,5	2CDS273337R0984		0.375	1
	1	931212	SU203M-C1	2CDS273337R0014		0.375	1
	1.6	931229	SU203M-C1,6	2CDS273337R0974		0.375	1
	2	931236	SU203M-C2	2CDS273337R0024		0.375	1
	3	931243	SU203M-C3	2CDS273337R0034		0.375	1
	4	931250	SU203M-C4	2CDS273337R0044		0.375	1
	5	931267	SU203M-C5	2CDS273337R0054		0.375	1
	6	931274	SU203M-C6	2CDS273337R0064		0.375	1
	8	931298	SU203M-C8	2CDS273337R0084		0.375	1
	10	931304	SU203M-C10	2CDS273337R0104		0.375	1
	13	931311	SU203M-C13	2CDS273337R0134		0.375	1
	15	931328	SU203M-C15	2CDS273337R0154		0.375	1
	16	931335	SU203M-C16	2CDS273337R0164		0.375	1
	20	931342	SU203M-C20	2CDS273337R0204		0.375	1
	25	931359	SU203M-C25	2CDS273337R0254		0.375	1
	30	931366	SU203M-C30	2CDS273337R0304		0.375	1
	32	931373	SU203M-C32	2CDS273337R0324		0.375	1
	35	931380	SU203M-C35	2CDS273337R0354		0.375	1
	40	931397	SU203M-C40	2CDS273337R0404		0.375	1
	50	931403	SU203M-C50	2CDS273337R0504		0.375	1
	60	931410	SU203M-C60	2CDS273337R0604		0.375	1
	63	931427	SU203M-C63	2CDS273337R0634		0.375	1

MCBs

SU 200 M series C characteristic

Number of poles	Rated current	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	In A	EAN	Type code	Order code		kg	pc.
4	0.5	931434	SU204M-C0,5	2CDS274337R0984		0.500	1
	1	931441	SU204M-C1	2CDS274337R0014		0.500	1
	1.6	931458	SU204M-C1,6	2CDS274337R0974		0.500	1
	2	931465	SU204M-C2	2CDS274337R0024		0.500	1
	3	931472	SU204M-C3	2CDS274337R0034		0.500	1
	4	931489	SU204M-C4	2CDS274337R0044		0.500	1
	5	931496	SU204M-C5	2CDS274337R0054		0.500	1
	6	931502	SU204M-C6	2CDS274337R0064		0.500	1
	8	931526	SU204M-C8	2CDS274337R0084		0.500	1
	10	931533	SU204M-C10	2CDS274337R0104		0.500	1
	13	931540	SU204M-C13	2CDS274337R0134		0.500	1
	15	931557	SU204M-C15	2CDS274337R0154		0.500	1
	16	931564	SU204M-C16	2CDS274337R0164		0.500	1
	20	931571	SU204M-C20	2CDS274337R0204		0.500	1
	25	931588	SU204M-C25	2CDS274337R0254		0.500	1
	30	931595	SU204M-C30	2CDS274337R0304		0.500	1
	32	931601	SU204M-C32	2CDS274337R0324		0.500	1
	35	931618	SU204M-C35	2CDS274337R0354		0.500	1
	40	931625	SU204M-C40	2CDS274337R0404		0.500	1
	50	931632	SU204M-C50	2CDS274337R0504		0.500	1
	60	931649	SU204M-C60	2CDS274337R0604		0.500	1
	63	931656	SU204M-C63	2CDS274337R0634		0.500	1

MCBs

SU 200 M series K characteristic

SU 200 M-K characteristic

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0.2	929967	SU201M-K0,2	2CDS271337R0087		0.125	1
	0.3	929974	SU201M-K0,3	2CDS271337R0117		0.125	1
	0.5	929981	SU201M-K0,5	2CDS271337R0157		0.125	1
	0.75	929998	SU201M-K0,75	2CDS271337R0187		0.125	1
	1	930000	SU201M-K1	2CDS271337R0217		0.125	1
	1.6	930017	SU201M-K1,6	2CDS271337R0257		0.125	1
	2	930024	SU201M-K2	2CDS271337R0277		0.125	1
	3	930031	SU201M-K3	2CDS271337R0317		0.125	1
	4	930048	SU201M-K4	2CDS271337R0337		0.125	1
	5	930055	SU201M-K5	2CDS271337R0357		0.125	1
	6	930062	SU201M-K6	2CDS271337R0377		0.125	1
	8	930086	SU201M-K8	2CDS271337R0407		0.125	1
	10	930093	SU201M-K10	2CDS271337R0427		0.125	1
	13	930109	SU201M-K13	2CDS271337R0447		0.125	1
	15	930116	SU201M-K15	2CDS271337R0457		0.125	1
	16	930123	SU201M-K16	2CDS271337R0467		0.125	1
	20	930130	SU201M-K20	2CDS271337R0487		0.125	1
	25	930147	SU201M-K25	2CDS271337R0517		0.125	1
	30	930154	SU201M-K30	2CDS271337R0527		0.125	1
	32	930161	SU201M-K32	2CDS271337R0537		0.125	1
	35	930178	SU201M-K35	2CDS271337R0547		0.125	1
	40	930185	SU201M-K40	2CDS271337R0557		0.125	1
	50	930192	SU201M-K50	2CDS271337R0577		0.125	1
	60	930208	SU201M-K60	2CDS271337R0587		0.125	1
	63	930215	SU201M-K63	2CDS271337R0607		0.125	1

MCBs

SU 200 M series K characteristic

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
2	0.2	932585	SU202M-K0,2	2CDS272337R0087		0.250	1
	0.3	932592	SU202M-K0,3	2CDS272337R0117		0.250	1
	0.5	932608	SU202M-K0,5	2CDS272337R0157		0.250	1
	0.75	932615	SU202M-K0,75	2CDS272337R0187		0.250	1
	1	932622	SU202M-K1	2CDS272337R0217		0.250	1
	1.6	932639	SU202M-K1,6	2CDS272337R0257		0.250	1
	2	932646	SU202M-K2	2CDS272337R0277		0.250	1
	3	932653	SU202M-K3	2CDS272337R0317		0.250	1
	4	932660	SU202M-K4	2CDS272337R0337		0.250	1
	5	932677	SU202M-K5	2CDS272337R0357		0.250	1
	6	932684	SU202M-K6	2CDS272337R0377		0.250	1
	8	932707	SU202M-K8	2CDS272337R0407		0.250	1
	10	932714	SU202M-K10	2CDS272337R0427		0.250	1
	13	932721	SU202M-K13	2CDS272337R0447		0.250	1
	15	932738	SU202M-K15	2CDS272337R0457		0.250	1
	16	932745	SU202M-K16	2CDS272337R0467		0.250	1
	20	932752	SU202M-K20	2CDS272337R0487		0.250	1
	25	932769	SU202M-K25	2CDS272337R0517		0.250	1
	30	932776	SU202M-K30	2CDS272337R0527		0.250	1
	32	932783	SU202M-K32	2CDS272337R0537		0.250	1
	35	932790	SU202M-K35	2CDS272337R0547		0.250	1
	40	932806	SU202M-K40	2CDS272337R0557		0.250	1
	50	932813	SU202M-K50	2CDS272337R0577		0.250	1
	60	932820	SU202M-K60	2CDS272337R0587		0.250	1
	63	932837	SU202M-K63	2CDS272337R0607		0.250	1

MCBs

SU 200 M series K characteristic

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	0.2	930222	SU203M-K0,2	2CDS273337R0087		0.375	1
	0.3	930239	SU203M-K0,3	2CDS273337R0117		0.375	1
	0.5	930246	SU203M-K0,5	2CDS273337R0157		0.375	1
	0.75	930253	SU203M-K0,75	2CDS273337R0187		0.375	1
	1	930260	SU203M-K1	2CDS273337R0217		0.375	1
	1.6	930277	SU203M-K1,6	2CDS273337R0257		0.375	1
	2	930284	SU203M-K2	2CDS273337R0277		0.375	1
	3	930291	SU203M-K3	2CDS273337R0317		0.375	1
	4	930307	SU203M-K4	2CDS273337R0337		0.375	1
	5	930314	SU203M-K5	2CDS273337R0357		0.375	1
	6	930321	SU203M-K6	2CDS273337R0377		0.375	1
	8	930345	SU203M-K8	2CDS273337R0407		0.375	1
	10	930352	SU203M-K10	2CDS273337R0427		0.375	1
	13	930369	SU203M-K13	2CDS273337R0447		0.375	1
	15	930376	SU203M-K15	2CDS273337R0457		0.375	1
	16	930383	SU203M-K16	2CDS273337R0467		0.375	1
	20	930390	SU203M-K20	2CDS273337R0487		0.375	1
	25	930406	SU203M-K25	2CDS273337R0517		0.375	1
	30	930413	SU203M-K30	2CDS273337R0527		0.375	1
	32	930420	SU203M-K32	2CDS273337R0537		0.375	1
	35	930437	SU203M-K35	2CDS273337R0547		0.375	1
	40	930444	SU203M-K40	2CDS273337R0557		0.375	1
	50	930451	SU203M-K50	2CDS273337R0577		0.375	1
	60	930468	SU203M-K60	2CDS273337R0587		0.375	1
	63	930475	SU203M-K63	2CDS273337R0607		0.375	1

MCBs

SU 200 M series K characteristic

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
4	0.2	930482	SU204M-K0,2	2CDS274337R0087		0.500	1
	0.3	930499	SU204M-K0,3	2CDS274337R0117		0.500	1
	0.5	930505	SU204M-K0,5	2CDS274337R0157		0.500	1
	0.75	930512	SU204M-K0,75	2CDS274337R0187		0.500	1
	1	930529	SU204M-K1	2CDS274337R0217		0.500	1
	1.6	930536	SU204M-K1,6	2CDS274337R0257		0.500	1
	2	930543	SU204M-K2	2CDS274337R0277		0.500	1
	3	930550	SU204M-K3	2CDS274337R0317		0.500	1
	4	930567	SU204M-K4	2CDS274337R0337		0.500	1
	5	930574	SU204M-K5	2CDS274337R0357		0.500	1
	6	930581	SU204M-K6	2CDS274337R0377		0.500	1
	8	930604	SU204M-K8	2CDS274337R0407		0.500	1
	10	930611	SU204M-K10	2CDS274337R0427		0.500	1
	13	930628	SU204M-K13	2CDS274337R0447		0.500	1
	15	930635	SU204M-K15	2CDS274337R0457		0.500	1
	16	930642	SU204M-K16	2CDS274337R0467		0.500	1
	20	930659	SU204M-K20	2CDS274337R0487		0.500	1
	25	930666	SU204M-K25	2CDS274337R0517		0.500	1
	30	930673	SU204M-K30	2CDS274337R0527		0.500	1
	32	930680	SU204M-K32	2CDS274337R0537		0.500	1
	35	930697	SU204M-K35	2CDS274337R0547		0.500	1
	40	930703	SU204M-K40	2CDS274337R0557		0.500	1
	50	930710	SU204M-K50	2CDS274337R0577		0.500	1
	60	930727	SU204M-K60	2CDS274337R0587		0.500	1
	63	930734	SU204M-K63	2CDS274337R0607		0.500	1

MCBs

SU 200 M series Z characteristic

SU 200 M-Z characteristic

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0.5	932844	SU201M-Z0,5	2CDS271337R0158		0.125	1
	1	932851	SU201M-Z1	2CDS271337R0218		0.125	1
	1.6	932868	SU201M-Z1,6	2CDS271337R0258		0.125	1
	2	932875	SU201M-Z2	2CDS271337R0278		0.125	1
	3	932882	SU201M-Z3	2CDS271337R0318		0.125	1
	4	932899	SU201M-Z4	2CDS271337R0338		0.125	1
	5	932905	SU201M-Z5	2CDS271337R0358		0.125	1
	6	932912	SU201M-Z6	2CDS271337R0378		0.125	1
	8	932936	SU201M-Z8	2CDS271337R0408		0.125	1
	10	932943	SU201M-Z10	2CDS271337R0428		0.125	1
	13	932950	SU201M-Z13	2CDS271337R0448		0.125	1
	15	932967	SU201M-Z15	2CDS271337R0458		0.125	1
	16	932974	SU201M-Z16	2CDS271337R0468		0.125	1
	20	932981	SU201M-Z20	2CDS271337R0488		0.125	1
	25	932998	SU201M-Z25	2CDS271337R0518		0.125	1
	30	933001	SU201M-Z30	2CDS271337R0528		0.125	1
	32	933018	SU201M-Z32	2CDS271337R0538		0.125	1
	35	933025	SU201M-Z35	2CDS271337R0548		0.125	1
	40	933032	SU201M-Z40	2CDS271337R0558		0.125	1
	50	933049	SU201M-Z50	2CDS271337R0578		0.125	1
	60	933056	SU201M-Z60	2CDS271337R0588		0.125	1
	63	933063	SU201M-Z63	2CDS271337R0608		0.125	1

MCBs

SU 200 M series Z characteristic

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
2	0.5	933070	SU202M-Z0,5	2CDS272337R0158		0.250	1
	1	933087	SU202M-Z1	2CDS272337R0218		0.250	1
	1.6	933094	SU202M-Z1,6	2CDS272337R0258		0.250	1
	2	933100	SU202M-Z2	2CDS272337R0278		0.250	1
	3	933117	SU202M-Z3	2CDS272337R0318		0.250	1
	4	933124	SU202M-Z4	2CDS272337R0338		0.250	1
	5	933131	SU202M-Z5	2CDS272337R0358		0.250	1
	6	933148	SU202M-Z6	2CDS272337R0378		0.250	1
	8	933162	SU202M-Z8	2CDS272337R0408		0.250	1
	10	933179	SU202M-Z10	2CDS272337R0428		0.250	1
	13	933186	SU202M-Z13	2CDS272337R0448		0.250	1
	15	933193	SU202M-Z15	2CDS272337R0458		0.250	1
	16	933209	SU202M-Z16	2CDS272337R0468		0.250	1
	20	933216	SU202M-Z20	2CDS272337R0488		0.250	1
	25	933223	SU202M-Z25	2CDS272337R0518		0.250	1
	30	933230	SU202M-Z30	2CDS272337R0528		0.250	1
	32	933247	SU202M-Z32	2CDS272337R0538		0.250	1
	35	933254	SU202M-Z35	2CDS272337R0548		0.250	1
	40	933261	SU202M-Z40	2CDS272337R0558		0.250	1
	50	933278	SU202M-Z50	2CDS272337R0578		0.250	1
	60	933285	SU202M-Z60	2CDS272337R0588		0.250	1
	63	933292	SU202M-Z63	2CDS272337R0608		0.250	1
3	0.5	933308	SU203M-Z0,5	2CDS273337R0158		0.375	1
	1	933315	SU203M-Z1	2CDS273337R0218		0.375	1
	1.6	933322	SU203M-Z1,6	2CDS273337R0258		0.375	1
	2	933339	SU203M-Z2	2CDS273337R0278		0.375	1
	3	933346	SU203M-Z3	2CDS273337R0318		0.375	1
	4	933353	SU203M-Z4	2CDS273337R0338		0.375	1
	5	933360	SU203M-Z5	2CDS273337R0358		0.375	1
	6	933377	SU203M-Z6	2CDS273337R0378		0.375	1
	8	933391	SU203M-Z8	2CDS273337R0408		0.375	1
	10	933407	SU203M-Z10	2CDS273337R0428		0.375	1
	13	933414	SU203M-Z13	2CDS273337R0448		0.375	1
	15	933421	SU203M-Z15	2CDS273337R0458		0.375	1
	16	933438	SU203M-Z16	2CDS273337R0468		0.375	1
	20	933445	SU203M-Z20	2CDS273337R0488		0.375	1
	25	933452	SU203M-Z25	2CDS273337R0518		0.375	1
	30	933469	SU203M-Z30	2CDS273337R0528		0.375	1
	32	933476	SU203M-Z32	2CDS273337R0538		0.375	1
	35	933483	SU203M-Z35	2CDS273337R0548		0.375	1
	40	933490	SU203M-Z40	2CDS273337R0558		0.375	1
	50	933506	SU203M-Z50	2CDS273337R0578		0.375	1
	60	933513	SU203M-Z60	2CDS273337R0588		0.375	1
	63	933520	SU203M-Z63	2CDS273337R0608		0.375	1

MCBs

SU 200 M series Z characteristic

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
4	0.5	933537	SU204M-Z0,5	2CDS274337R0158		0.500	1
	1	933544	SU204M-Z1	2CDS274337R0218		0.500	1
	1.6	933551	SU204M-Z1,6	2CDS274337R0258		0.500	1
	2	933568	SU204M-Z2	2CDS274337R0278		0.500	1
	3	933575	SU204M-Z3	2CDS274337R0318		0.500	1
	4	933582	SU204M-Z4	2CDS274337R0338		0.500	1
	5	933599	SU204M-Z5	2CDS274337R0358		0.500	1
	6	933605	SU204M-Z6	2CDS274337R0378		0.500	1
	8	933629	SU204M-Z8	2CDS274337R0408		0.500	1
	10	933636	SU204M-Z10	2CDS274337R0428		0.500	1
	13	933643	SU204M-Z13	2CDS274337R0448		0.500	1
	15	933650	SU204M-Z15	2CDS274337R0458		0.500	1
	16	933667	SU204M-Z16	2CDS274337R0468		0.500	1
	20	933674	SU204M-Z20	2CDS274337R0488		0.500	1
	25	933681	SU204M-Z25	2CDS274337R0518		0.500	1
	30	933698	SU204M-Z30	2CDS274337R0528		0.500	1
	32	933704	SU204M-Z32	2CDS274337R0538		0.500	1
	35	933711	SU204M-Z35	2CDS274337R0548		0.500	1
	40	933728	SU204M-Z40	2CDS274337R0558		0.500	1
	50	933735	SU204M-Z50	2CDS274337R0578		0.500	1
	60	933742	SU204M-Z60	2CDS274337R0588		0.500	1
	63	933759	SU204M-Z63	2CDS274337R0608		0.500	1

MCBs

Circuit breaker SU 200 MR series, 10kA

The SU200 MR is a high-performance circuit breaker with ring cable lug connections conforming to UL 489; CSA 22.2. No. 5 and IEC/EN 60947-2 standards. The integrated captive connecting screws simplify the connection of electric lines, provides extra protection and saves time.



SU201 MR



SU202 MR

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	0.2	956192	SU201MR-K0.2	2CDS271347R0087		0.140	1
	0.3	956215	SU201MR-K0.3	2CDS271347R0117		0.140	1
	0.5	956239	SU201MR-K0.5	2CDS271347R0157		0.140	1
	0.75	956253	SU201MR-K0.75	2CDS271347R0187		0.140	1
	1	956277	SU201MR-K1	2CDS271347R0217		0.140	1
	1.6	956291	SU201MR-K1.6	2CDS271347R0257		0.140	1
	2	956314	SU201MR-K2	2CDS271347R0277		0.140	1
	3	956338	SU201MR-K3	2CDS271347R0317		0.140	1
	4	956352	SU201MR-K4	2CDS271347R0337		0.140	1
	5	956376	SU201MR-K5	2CDS271347R0357		0.140	1
	6	956390	SU201MR-K6	2CDS271347R0377		0.140	1
	8	956413	SU201MR-K8	2CDS271347R0407		0.140	1
	10	956437	SU201MR-K10	2CDS271347R0427		0.140	1
	13	956451	SU201MR-K13	2CDS271347R0447		0.140	1
	15	956475	SU201MR-K15	2CDS271347R0457		0.140	1
	16	956499	SU201MR-K16	2CDS271347R0467		0.140	1
	20	956512	SU201MR-K20	2CDS271347R0487		0.140	1
	25	956536	SU201MR-K25	2CDS271347R0517		0.140	1
	30	956550	SU201MR-K30	2CDS271347R0527		0.140	1
	32	956574	SU201MR-K32	2CDS271347R0537		0.140	1
	35	956598	SU201MR-K35	2CDS271347R0547		0.140	1
	40	956611	SU201MR-K40	2CDS271347R0557		0.140	1
	50	956635	SU201MR-K50	2CDS271347R0577		0.140	1
	60	956659	SU201MR-K60	2CDS271347R0587		0.140	1
	63	956673	SU201MR-K63	2CDS271347R0607		0.140	1
2	0.2	957175	SU202MR-K0.2	2CDS272347R0087		0.280	1
	0.3	957199	SU202MR-K0.3	2CDS272347R0117		0.280	1
	0.5	957212	SU202MR-K0.5	2CDS272347R0157		0.280	1
	0.75	957236	SU202MR-K0.75	2CDS272347R0187		0.280	1
	1	957250	SU202MR-K1	2CDS272347R0217		0.280	1
	1.6	957274	SU202MR-K1.6	2CDS272347R0257		0.280	1
	2	957298	SU202MR-K2	2CDS272347R0277		0.280	1
	3	957311	SU202MR-K3	2CDS272347R0317		0.280	1
	4	957335	SU202MR-K4	2CDS272347R0337		0.280	1
	5	957359	SU202MR-K5	2CDS272347R0357		0.280	1
	6	957373	SU202MR-K6	2CDS272347R0377		0.280	1
	8	957397	SU202MR-K8	2CDS272347R0407		0.280	1
	10	957410	SU202MR-K10	2CDS272347R0427		0.280	1
	13	957434	SU202MR-K13	2CDS272347R0447		0.280	1
	15	957458	SU202MR-K15	2CDS272347R0457		0.280	1
	16	957472	SU202MR-K16	2CDS272347R0467		0.280	1
	20	957496	SU202MR-K20	2CDS272347R0487		0.280	1
	25	957519	SU202MR-K25	2CDS272347R0517		0.280	1
	30	957533	SU202MR-K30	2CDS272347R0527		0.280	1
	32	957557	SU202MR-K32	2CDS272347R0537		0.280	1
	35	957571	SU202MR-K35	2CDS272347R0547		0.280	1
	40	957595	SU202MR-K40	2CDS272347R0557		0.280	1
	50	957618	SU202MR-K50	2CDS272347R0577		0.280	1
	60	957632	SU202MR-K60	2CDS272347R0587		0.280	1
	63	957656	SU202MR-K63	2CDS272347R0607		0.280	1

MCBs

Circuit breaker SU 200 MR series, 10kA



SU203 MR



SU204 MR

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	0.2	958172	SU203MR-K0.2	2CDS273347R0087		0.420	1
	0.3	958196	SU203MR-K0.3	2CDS273347R0117		0.420	1
	0.5	958219	SU203MR-K0.5	2CDS273347R0157		0.420	1
	0.75	958233	SU203MR-K0.75	2CDS273347R0187		0.420	1
	1	958257	SU203MR-K1	2CDS273347R0217		0.420	1
	1.6	958271	SU203MR-K1.6	2CDS273347R0257		0.420	1
	2	958295	SU203MR-K2	2CDS273347R0277		0.420	1
	3	958318	SU203MR-K3	2CDS273347R0317		0.420	1
	4	958332	SU203MR-K4	2CDS273347R0337		0.420	1
	5	958356	SU203MR-K5	2CDS273347R0357		0.420	1
	6	958370	SU203MR-K6	2CDS273347R0377		0.420	1
	8	958394	SU203MR-K8	2CDS273347R0407		0.420	1
	10	958417	SU203MR-K10	2CDS273347R0427		0.420	1
	13	958431	SU203MR-K13	2CDS273347R0447		0.420	1
	15	958455	SU203MR-K15	2CDS273347R0457		0.420	1
	16	958479	SU203MR-K16	2CDS273347R0467		0.420	1
	20	958493	SU203MR-K20	2CDS273347R0487		0.420	1
	25	958516	SU203MR-K25	2CDS273347R0517		0.420	1
	30	958530	SU203MR-K30	2CDS273347R0527		0.420	1
	32	958554	SU203MR-K32	2CDS273347R0537		0.420	1
	35	958578	SU203MR-K35	2CDS273347R0547		0.420	1
	40	958592	SU203MR-K40	2CDS273347R0557		0.420	1
	50	958615	SU203MR-K50	2CDS273347R0577		0.420	1
	60	958639	SU203MR-K60	2CDS273347R0587		0.420	1
	63	958653	SU203MR-K63	2CDS273347R0607		0.420	1
4	0.2	959179	SU204MR-K0.2	2CDS274347R0087		0.560	1
	0.3	959193	SU204MR-K0.3	2CDS274347R0117		0.560	1
	0.5	959216	SU204MR-K0.5	2CDS274347R0157		0.560	1
	0.75	959230	SU204MR-K0.75	2CDS274347R0187		0.560	1
	1	959254	SU204MR-K1	2CDS274347R0217		0.560	1
	1.6	959278	SU204MR-K1.6	2CDS274347R0257		0.560	1
	2	959292	SU204MR-K2	2CDS274347R0277		0.560	1
	3	959315	SU204MR-K3	2CDS274347R0317		0.560	1
	4	959339	SU204MR-K4	2CDS274347R0337		0.560	1
	5	959353	SU204MR-K5	2CDS274347R0357		0.560	1
	6	959377	SU204MR-K6	2CDS274347R0377		0.560	1
	8	959391	SU204MR-K8	2CDS274347R0407		0.560	1
	10	959414	SU204MR-K10	2CDS274347R0427		0.560	1
	13	959438	SU204MR-K13	2CDS274347R0447		0.560	1
	15	959452	SU204MR-K15	2CDS274347R0457		0.560	1
	16	959476	SU204MR-K16	2CDS274347R0467		0.560	1
	20	959490	SU204MR-K20	2CDS274347R0487		0.560	1
	25	959513	SU204MR-K25	2CDS274347R0517		0.560	1
	30	959537	SU204MR-K30	2CDS274347R0527		0.560	1
	32	959551	SU204MR-K32	2CDS274347R0537		0.560	1
	35	959575	SU204MR-K35	2CDS274347R0547		0.560	1
	40	959599	SU204MR-K40	2CDS274347R0557		0.560	1
	50	959612	SU204MR-K50	2CDS274347R0577		0.560	1
	60	959636	SU204MR-K60	2CDS274347R0587		0.560	1
	63	959650	SU204MR-K63	2CDS274347R0607		0.560	1

MCBs

S 200 series UDC - Universal current range, UL, K characteristic



S 201 UDC

S 200 UDC-K characteristic
Function: protection and control of the circuits like motors, transformers and auxiliary circuits, against overloads and short-circuits.
Advantages: no nuisance tripping in the case of functional peak currents up to 10xIn, depending on the series; through its highly sensitive thermostatic bimetal trip, the K-type characteristic offers protection to damageable elements in the overcurrent range; it also provides the best protection to cables and lines.
Applications: commercial and industrial
Standard: UL 489, CSA 22.2 No. 5
(only DC, please note polarity of device)
Short-circuit current rating (SCCR acc. to UL 489): 14 kA

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	1	825924	S201UDC-K1	2CDS271517R0217		0.150	10
	1,6	825948	S201UDC-K1.6	2CDS271517R0257		0.150	10
	2	825955	S201UDC-K2	2CDS271517R0277		0.150	10
	3	825962	S201UDC-K3	2CDS271517R0317		0.150	10
	4	825979	S201UDC-K4	2CDS271517R0337		0.150	10
	5	825986	S201UDC-K5	2CDS271517R0357		0.150	10
	6	825993	S201UDC-K6	2CDS271517R0377		0.150	10
	8	826006	S201UDC-K8	2CDS271517R0407		0.150	10
	10	826013	S201UDC-K10	2CDS271517R0427		0.150	10
	13	826020	S201UDC-K13	2CDS271517R0447		0.150	10
	15	826037	S201UDC-K15	2CDS271517R0457		0.150	10
	16	826044	S201UDC-K16	2CDS271517R0467		0.150	10
	20	826051	S201UDC-K20	2CDS271517R0487		0.150	10
	25	826068	S201UDC-K25	2CDS271517R0517		0.150	10
	30	826075	S201UDC-K30	2CDS271517R0527		0.150	10
	32	826082	S201UDC-K32	2CDS271517R0537		0.150	10
	40	826099	S201UDC-K40	2CDS271517R0557		0.150	10
	50	826105	S201UDC-K50	2CDS271517R0577		0.150	10
	60	826112	S201UDC-K60	2CDS271517R0587		0.150	10
	63	826129	S201UDC-K63	2CDS271517R0607		0.150	10

MCBs

S 200 series UDC - Universal current range, UL, K characteristic



S 202 UDC

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
2	1	825061	S202UDC-K1	2CDS272517R0217		0.300	5
	1,6	825160	S202UDC-K1.6	2CDS272517R0257		0.300	5
	2	825177	S202UDC-K2	2CDS272517R0277		0.300	5
	3	825184	S202UDC-K3	2CDS272517R0317		0.300	5
	4	825191	S202UDC-K4	2CDS272517R0337		0.300	5
	5	825207	S202UDC-K5	2CDS272517R0357		0.300	5
	6	825214	S202UDC-K6	2CDS272517R0377		0.300	5
	8	825221	S202UDC-K8	2CDS272517R0407		0.300	5
	10	825238	S202UDC-K10	2CDS272517R0427		0.300	5
	13	825245	S202UDC-K13	2CDS272517R0447		0.300	5
	15	825252	S202UDC-K15	2CDS272517R0457		0.300	5
	16	825269	S202UDC-K16	2CDS272517R0467		0.300	5
	20	825276	S202UDC-K20	2CDS272517R0487		0.300	5
	25	825283	S202UDC-K25	2CDS272517R0517		0.300	5
	30	825290	S202UDC-K30	2CDS272517R0527		0.300	5
	32	825306	S202UDC-K32	2CDS272517R0537		0.300	5
	40	825313	S202UDC-K40	2CDS272517R0557		0.300	5
	50	825320	S202UDC-K50	2CDS272517R0577		0.300	5
	60	825337	S202UDC-K60	2CDS272517R0587		0.300	5
	63	825344	S202UDC-K63	2CDS272517R0607		0.300	5

MCBs

S 200 series UDC - Universal current range, UL, Z characteristic

S 200 UDC-Z characteristic
Function: protection and control of the electronic circuits against lower and long duration overloads and short-circuits.
Applications: commercial and industrial.
Standard: UL 489, CSA 22.2 No. 5
(only DC, please note polarity of device)
Short-circuit current rating (SCCR acc. to UL 489): 14 kA


S 201 UDC

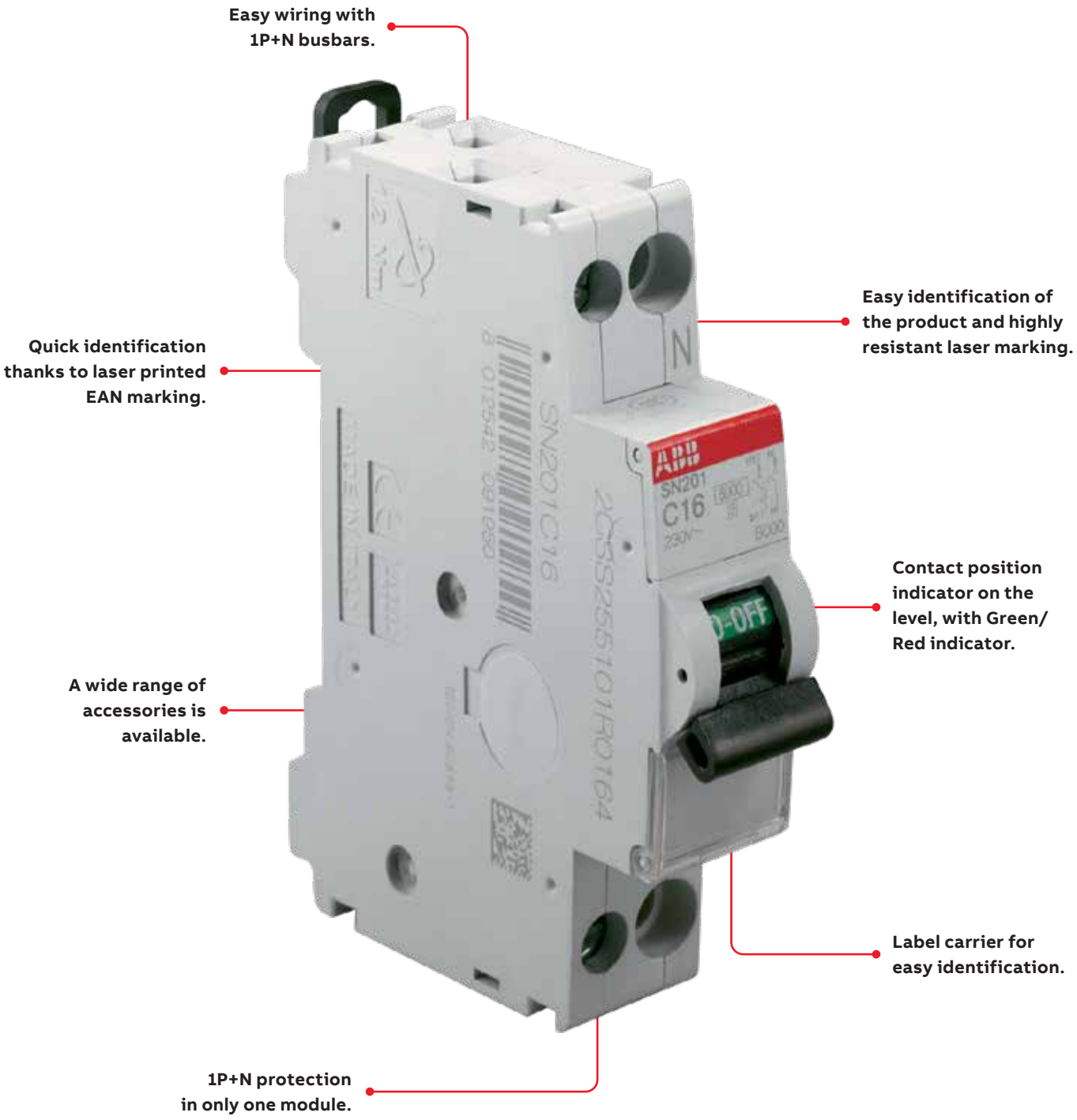

S 202 UDC

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	1	826136	S201UDC-Z1	2CDS271517R0218		0.150	10
	1,6	826143	S201UDC-Z1.6	2CDS271517R0258		0.150	10
	2	826150	S201UDC-Z2	2CDS271517R0278		0.150	10
	3	826167	S201UDC-Z3	2CDS271517R0318		0.150	10
	4	826174	S201UDC-Z4	2CDS271517R0338		0.150	10
	5	826181	S201UDC-Z5	2CDS271517R0358		0.150	10
	6	826198	S201UDC-Z6	2CDS271517R0378		0.150	10
	8	826204	S201UDC-Z8	2CDS271517R0408		0.150	10
	10	826211	S201UDC-Z10	2CDS271517R0428		0.150	10
	15	826228	S201UDC-Z15	2CDS271517R0458		0.150	10
	16	826235	S201UDC-Z16	2CDS271517R0468		0.150	10
	20	826242	S201UDC-Z20	2CDS271517R0488		0.150	10
	25	826259	S201UDC-Z25	2CDS271517R0518		0.150	10
	30	826266	S201UDC-Z30	2CDS271517R0528		0.150	10
	32	826273	S201UDC-Z32	2CDS271517R0538		0.150	10
	40	826280	S201UDC-Z40	2CDS271517R0558		0.150	10
	50	826297	S201UDC-Z50	2CDS271517R0578		0.150	10
	60	826303	S201UDC-Z60	2CDS271517R0588		0.150	10
	63	826310	S201UDC-Z63	2CDS271517R0608		0.150	10
2	1	825351	S202UDC-Z1	2CDS272517R0218		0.300	5
	1,6	825368	S202UDC-Z1.6	2CDS272517R0258		0.300	5
	2	825375	S202UDC-Z2	2CDS272517R0278		0.300	5
	3	825382	S202UDC-Z3	2CDS272517R0318		0.300	5
	4	825399	S202UDC-Z4	2CDS272517R0338		0.300	5
	5	825405	S202UDC-Z5	2CDS272517R0358		0.300	5
	6	825412	S202UDC-Z6	2CDS272517R0378		0.300	5
	8	825429	S202UDC-Z8	2CDS272517R0408		0.300	5
	10	825436	S202UDC-Z10	2CDS272517R0428		0.300	5
	15	825443	S202UDC-Z15	2CDS272517R0458		0.300	5
	16	825450	S202UDC-Z16	2CDS272517R0468		0.300	5
	20	825467	S202UDC-Z20	2CDS272517R0488		0.300	5
	25	825474	S202UDC-Z25	2CDS272517R0518		0.300	5
	30	825481	S202UDC-Z30	2CDS272517R0528		0.300	5
	32	825498	S202UDC-Z32	2CDS272517R0538		0.300	5
	40	825504	S202UDC-Z40	2CDS272517R0558		0.300	5
	50	825511	S202UDC-Z50	2CDS272517R0578		0.300	5
	60	825528	S202UDC-Z60	2CDS272517R0588		0.300	5
	63	825535	S202UDC-Z63	2CDS272517R0608		0.300	5

Notes

MCB SN 201. The details make the difference

A range designed to ensure efficiency and protection





Space for insulated screwdrivers: the larger neutral hole allows the use of an insulated screwdriver to tighten the screws of both wire terminals, ensuring maximum safety of the operation.



Two bistable fixing devices for maximum ease of use: due to larger size of the DIN rail fixing system, made with 2 bistable fixing devices, the same screwdriver used for tightening the terminals can also be used for assembling and disassembling the device.



With the practical label carrier fitted in the SN201 circuit-breakers you can give maximum visibility to the information relating to the protected loads.



The SN201 fully integrates with the range of System pro M compact® miniature circuit-breakers, sharing the wide selection of accessories available through a dedicated interface (half module), which also can be used as auxiliary contact.

Miniature circuit-breakers

SN 201 series - 1P+N in one module housing



SN 201

General Data	Standards	
	Poles	
	Tripping characteristics	
	Rated current I_n	A
	Rated frequency f	Hz
	Rated insulation voltage U_i acc. to DIN EN 60664-1	V
	Overvoltage category	
	Pollution degree	
Data acc. to IEC/EN 60898-1	Rated operational voltage U_n	V
	Max. power frequency recovery voltage (U_{max})	V
	Min. operating voltage	V
	Rated short-circuit capacity I_{cn}	kA
	Rated making and breaking capacity of one individual pole I_{cn1}	kA
	Energy limiting class (B, C up to 40A)	
	Rated impulse withstand voltage $U_{imp.}$ (1.2/50µs)	kV
	Dielectric test voltage	kV
	Reference temperature for tripping characteristics	°C
	Electrical endurance	operations
Data acc. to IEC/EN 60947-2 (Only referring to internal short circuit test)	Rated ultimate short-circuit breaking capacity I_{cu}	kA
	Rated service short-circuit breaking capacity I_{cs}	kA
Mechanical Data	Housing	
	Toggle	
	Contact position indication	
	Protection degree acc. to EN 60529	
	Electrical endurance	operations
	Mechanical endurance	operations
	Shock resistance acc. to IEC/EN 60068-2-27	
	Vibration resistance acc. to IEC/EN 60068-2-6	
	Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30	°C/RH
	Ambient temperature (with daily average ≤ +35°C)	°C
	Storage temperature	°C
Installation	Cross-section of conductors (top/bottom) Stranded / Solid	mm^2
	Cross-section of conductors (top/bottom) Flexible	mm^2
	Stripping length of the cable	mm
	Tightening torque (Top/Bottom)	Nm
	Mounting	
	Mounting Position	
	Supply	
Dimensions and weight	Pole dimensions (H x D x W)	mm
	Pole weight	g
Combination with aux. elements	Auxiliary contact	
	Signal contact/auxiliary switch	
	Shunt trip	
	Undervoltage release	

*1 SN201 and SN201M series in B and D characteristic are available for rated current In ≥ 6 A

Miniature circuit-breakers

SN 201 series - 1P+N in one module housing

SN 201 L	SN 201	SN 201 M
IEC/EN 60898		
1P + N		
B, C	B, C, D	B, C
2…40 A *1		
50 / 60 Hz		
500 V AC		
III		
2		
230 V AC		
254 V AC		
12 V AC		
4.5 kA	6 kA	10 kA
4.5 kA	6 kA	6 kA
3		
4 kV (test voltage 6,2kV at sea level, 5kV at 2000m)		
2.5 kV (50 / 60Hz, 1 min.)		
30°C		
10.000 operations		
6 kA	10 kA	10 kA
4.5 kA	6 kA	7.5 kA
Insulation group II, RAL 7035		
Insulation group IIIA, black, sealable in ON/OFF positions		
Marking on toggle (I ON / 0 OFF)		
Housing: IP4X; Terminals: IP2X		
10000 operations		
20000 operations		
30 g - 2 shocks - 13 ms		
0.35mm or 5g - 20 cycles at 5…150…5 Hz without load		
28 cycles with 55°C/90-96% and 25°C/95-100%		
-25 … +55°C		
-40 … +70°C		
16 mm^2 / 16 mm^2		
10 mm^2 / 10 mm^2		
11 mm		
1.2 Nm		
On DIN rail 35 mm acc. to EN 60715 by fast clip		
any		
optional (supply from top/bottom)		
85 x 68.9 x 17.6 mm		
ca. 110 g		
Yes		
Yes		
Yes (with coupling interface)		
Yes (with coupling interface)		

MCBs

SN 201 L series B and C characteristic



SN 201 L

SN 201 L - B characteristic

Function: overload and short-circuit protection of circuits in final distribution; protection of long cable lengths in TN and IT systems.

Applications: residential.

Standard: IEC/EN 60898

Icn: 4.5 kA

Number of poles	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+N	2	087359	SN201LB2	2CSS245101R0025		0.110	6
	4	087458	SN201LB4	2CSS245101R0045		0.110	6
	6	087557	SN201LB6	2CSS245101R0065		0.110	6
	10	087656	SN201LB10	2CSS245101R0105		0.110	6
	16	087755	SN201LB16	2CSS245101R0165		0.110	6
	20	087854	SN201LB20	2CSS245101R0205		0.110	6
	25	087953	SN201LB25	2CSS245101R0255		0.110	6
	32	088059	SN201LB32	2CSS245101R0325		0.110	6
	40	088158	SN201LB40	2CSS245101R0405		0.110	6



SN 201 L

SN 201 L - C characteristic

Function: overload and short-circuit protection of circuits in final distribution; protection of resistive and inductive loads with low inrush current.

Applications: residential.

Standard: IEC/EN 60898

Icn: 4.5 kA

Number of poles	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+N	2	088257	SN201LC2	2CSS245101R0024		0.110	6
	4	088356	SN201LC4	2CSS245101R0044		0.110	6
	6	088455	SN201LC6	2CSS245101R0064		0.110	6
	10	088554	SN201LC10	2CSS245101R0104		0.110	6
	16	088653	SN201LC16	2CSS245101R0164		0.110	6
	20	088752	SN201LC20	2CSS245101R0204		0.110	6
	25	088851	SN201LC25	2CSS245101R0254		0.110	6
	32	088950	SN201LC32	2CSS245101R0324		0.110	6
	40	089056	SN201LC40	2CSS245101R0404		0.110	6

MCBs

SN 201 series B and C characteristic



SN 201

SN 201 - B characteristic

Function: overload and short-circuits protection of circuits in final distribution; protection of long cable lengths in TN and IT systems.

Applications: residential and commercial.

Standard: IEC/EN 60898

Icn: 6 kA

Number of poles	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+N	6	090755	SN201B6	2CSS255101R0065		0.110	6
	10	090854	SN201B10	2CSS255101R0105		0.110	6
	13	743514	SN201B13	2CSS255101R0135		0.110	6
	16	090953	SN201B16	2CSS255101R0165		0.110	6
	20	091059	SN201B20	2CSS255101R0205		0.110	6
	25	091158	SN201B25	2CSS255101R0255		0.110	6
	32	091257	SN201B32	2CSS255101R0325		0.110	6
	40	091356	SN201B40	2CSS255101R0405		0.110	6



SN 201

SN 201 - C characteristic

Function: overload and short-circuit protection of circuits in final distribution; protection of resistive and inductive loads with low inrush current.

Applications: residential and commercial.

Standard: IEC/EN 60898

Icn: 6 kA

Number of poles	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+N	2	091462	SN201C2	2CSS255101R0024		0.110	6
	3	130260	SN201C3	2CSS255101R0034		0.110	6
	4	091561	SN201C4	2CSS255101R0044		0.110	6
	6	091660	SN201C6	2CSS255101R0064		0.110	6
	10	091769	SN201C10	2CSS255101R0104		0.110	6
	13	091868	SN201C13	2CSS255101R0134		0.110	6
	16	091967	SN201C16	2CSS255101R0164		0.110	6
	20	092063	SN201C20	2CSS255101R0204		0.110	6
	25	092162	SN201C25	2CSS255101R0254		0.110	6
	32	092261	SN201C32	2CSS255101R0324		0.110	6
	40	092360	SN201C40	2CSS255101R0404		0.110	6

MCBs

SN 201 series D characteristic



SN 201

SN 201 - D characteristic

Function: protection and control of the circuits against overloads and short-circuits in final distribution; protection for circuits which supply loads with high inrush current at the circuit closing.

Applications: residential and commercial.

Standard: IEC/EN 60898

Icn: 6 kA

Number of poles	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+N	6	092452	SN201D6	2CSS255101R0061		0.110	6
	10	092551	SN201D10	2CSS255101R0101		0.110	6
	16	092650	SN201D16	2CSS255101R0161		0.110	6
	20	092759	SN201D20	2CSS255101R0201		0.110	6
	25	092858	SN201D25	2CSS255101R0251		0.110	6
	32	092957	SN201D32	2CSS255101R0321		0.110	6
	40	093053	SN201D40	2CSS255101R0401		0.110	6

MCBs

SN 201 M series B and C characteristic



SN 201 M

SN 201 M - B characteristic

Function: overloads and short-circuit protection of circuits in final distribution; protection of long cable lengths in TN and IT systems.

Applications: residential and commercial.

Standard: IEC/EN 60898

Icn: 10 kA

Number of poles	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+N	6	093152	SN201MB6	2CSS275101R0065		0.110	6
	10	093251	SN201MB10	2CSS275101R0105		0.110	6
	16	093350	SN201MB16	2CSS275101R0165		0.110	6
	20	093459	SN201MB20	2CSS275101R0205		0.110	6
	25	093558	SN201MB25	2CSS275101R0255		0.110	6
	32	093657	SN201MB32	2CSS275101R0325		0.110	6
	40	093756	SN201MB40	2CSS275101R0405		0.110	6



SN 201 M

SN 201 M - C characteristic

Function: overload and short-circuit protection of circuits in final distribution; protection of resistive and inductive loads with low inrush current.

Applications: residential and commercial.

Standard: IEC/EN 60898

Icn: 10 kA

Number of poles	Rated current In A	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1+N	2	093855	SN201MC2	2CSS275101R0024		0.110	6
	4	093954	SN201MC4	2CSS275101R0044		0.110	6
	6	094050	SN201MC6	2CSS275101R0064		0.110	6
	10	094159	SN201MC10	2CSS275101R0104		0.110	6
	16	094258	SN201MC16	2CSS275101R0164		0.110	6
	20	094357	SN201MC20	2CSS275101R0204		0.110	6
	25	094456	SN201MC25	2CSS275101R0254		0.110	6
	32	094555	SN201MC32	2CSS275101R0324		0.110	6
	40	094654	SN201MC40	2CSS275101R0404		0.110	6

S200C Compact MCBs

Save up to 50% more of space in the installation

Easy to install

- Supply possible either from top or bottom side, with cables or busbars.
- All screws are on the same level for a fast and easy installation



High performance clips
To facilitate the mounting and dismounting operation, guaranteeing an easy removal from a battery of device supplied with busbars

Laser printed information
Main technical information and product code are laser printed on the front side, visible also when the device is installed

Guaranteed security
Indication of the contacts status with I-0N/0-FF indication in green/red on the toggle

Dedicated space for label
Dedicated space to insert labels in order to clearly identify the protected lines

Combination with accessories
Possibility to mount signal and auxiliary contacts either on right or left side

S200C series
One-sight overview



1P+1P
1 module

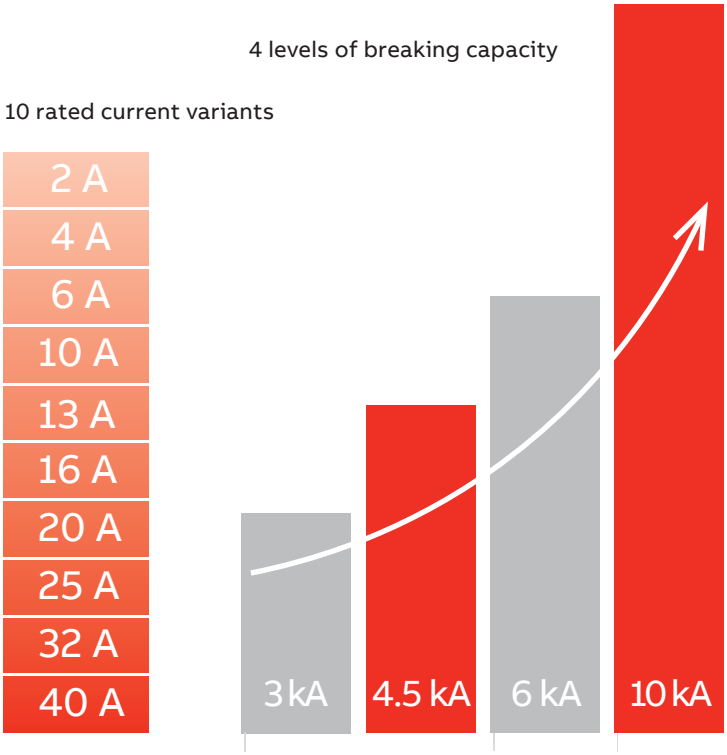
2P
1 module

3P
2 modules

4P
2 modules

Auxiliary G2C
H and S/H

- **S2011C: 1P+1P in 1M** - 6 kA braking capacity, B and C char up to 20 A.
- **S202C: 2P in 1M** - From 3 kA to 10 kA breaking capacity, B and C char up to 40 A. Including a dedicated version for traction.
- **S203C: 3P in 2M** - From 3 kA to 6 kA breaking capacity, B and C char up to 32 A.
- **S204C: 4P in 2M** - From 3 kA to 6 kA breaking capacity, B and C char up to 32 A.
- **G2C auxiliary and signal contact**



MCBs

S2011C - Technical features

			S2011C
Standards			IEC/EN 60898-1
Electrical features			
Number of poles			1P+1P
Number of modules			1M
Tripping Characteristic			B, C
Rated current I_n		A	$1 \le I_n \le 20$
Rated operational voltage U_n		V	230/240
Rated insulation voltage U_i acc. to IEC/EN 60664-1		V	500 V AC
Overvoltage category			III
Pollution degree			2
Rated frequency		Hz	50/60
Min operating voltage		V AC/DC	12
Max operating voltage		V	264
Rated breaking capacity acc. to IEC/EN 60898-1	I_{cn}	A	6000
"Rated breaking capacity acc. to IEC/EN 60947-2 (only referring to internal short circuit test)"	ultimate I_{cu}	kA	6
	service I_{cs}	kA	6
Rated breaking capacity Icn1 acc. to IEC/EN 60898-1	I_{cn1}	A	6000
"Rated breaking capacity acc. to IEC/EN 60947-2 in DC (only referring to internal short circuit test, tc 4ms)"	ultimate I_{cu}	kA	6 kA @ 48 VDC
Rated impulse withstand voltage (1.2/50µs) U_{imp}		kV	4 kV
Dielectric test voltage at ind. freq. for 1 min.		kV	2.5 kV (50 / 60Hz, 1 min.)
Thermomagnetic release - characteristic	B: $3\ I_n \le I_m \le 5$ In		■
	C: $5\ I_n \le I_m \le 10\ I_n$		■
Energy limiting class			3
Mechanical features			
Housing			Insulation group I, RAL 7035
Toggle			Insulation group II, Black RAL 9005, sealable in ON-OFF positions
Electrical life		operations	10000
Mechanical life		operations	20000
Protection degree acc. to EN 60529	housing		IP40
	terminals		IP20
Shock resistance acc. to IEC/EN 60068-2-27			40 g (x,y,z) - 18 shocks - 5ms half sinusoidal
Vibration resistance acc. to IEC/EN 60068-2-6			0.35 mm or 5g - 20 cycles at 5…150…5 Hz
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C/RH	28 cycles with 55 °C/90–96 % and 25 °C/95–100 %
Reference temperature for setting of thermal element		°C	30
Ambient temperature (with daily average ≤ +35 °C)		°C	-25…+55
Storage temperature		°C	-40…+70
Installation			
Terminal type	top / bottom		Fail-safe terminals, bi-directional cylinder-lift terminal (shock protected)
Terminal size for cables	top / bottom	mm^2	10 flexible /16 rigid top & bottom
Terminal size for busbars	top / bottom	mm^2	10/10
Tightening torque	top / bottom	Nm	3
Stripping length of the cable		mm	12
Mounting			on DIN rail EN 60715 (35 mm) by means of mounting clip
Mounting position			Vertical & Horizontal
Supply from			Top/Bottom terminals
Dimensions and weight			
Dimensions (H×D×W)		mm	86×70×17.8 mm
Weight		g	160
Combination with auxiliary elements			
Combinable with accessories and auxiliaries			YES, G2C series

MCBs

S202C - Technical features

			S202C				S202TC
			S202C T	**S202C L**	**S202C**	**S202C M**	**S202TC**
Standards			IEC/EN 60898-1				
Electrical features							
Number of poles			2P	2P	2P	2P	2P
Number of modules			1M	1M	1M	1M	1M
Tripping Characteristic			C	B, C	B, C	B, C	B, C
Rated current I_n		A	$2 \le I_n \le 40$	$2 \le I_n \le 40$	$2 \le I_n \le 40$	$2 \le I_n \le 32$	$2 \le I_n \le 32$
Rated operational voltage U_n		V	400/415	400/415	400/415	230/240	400/415
Rated insulation voltage U_i acc. to IEC/EN 60664-1		V	500 V AC	500 V AC	500 V AC	500 V AC	500 V AC
Overvoltage category			III	III	III	III	III
Pollution degree			2	2	2	2	2
Rated frequency		Hz	50/60	50/60	50/60	50/60	50/60
Min operating voltage		V AC/DC	12	12	12	12	12
Max operating voltage		V	440	440	440	264	440
Rated breaking capacity acc. to IEC/EN 60898-1	I_{cn}	A	3000	4500	6000	10000	6000
"Rated breaking capacity acc. to IEC/EN 60947-2 (only referring to internal short circuit test)"	ultimate I_{cu}	kA	3	6	10	10	6
	service I_{cs}	kA	3	4.5	6	7.5	6
Rated breaking capacity Icn1 acc. to IEC/EN 60898-1	I_{cn1}	A	3000	4500	6000	6000	6000
"Rated breaking capacity acc. to IEC/EN 60947-2 in DC (only referring to internal short circuit test, poles connected in series, tc 4ms)"	ultimate I_{cu}	kA	3 kA @ 110 VDC	4.5 kA @ 110 VDC	6 kA @ 110 VDC	-	6 kA @ 110 VDC
Rated impulse withstand voltage (1.2/50µs) U_{imp}		kV	4 kV	4 kV	4 kV	4 kV	4 kV
Dielectric test voltage at ind. freq. for 1 min.		kV	2.5 kV (50 / 60Hz, 1 min.)	2.5 kV (50 / 60Hz, 1 min.)	2.5 kV (50 / 60Hz, 1 min.)	2.5 kV (50 / 60Hz, 1 min.)	2.5 kV (50 / 60Hz, 1 min.)
Thermomagnetic release - characteristic	B: $3\ I_n \le I_m \le 5\ In$			■	■	■	■
	C: $5\ I_n \le I_m \le 10\ I_n$		■	■	■	■	■
Energy limiting class			3				
Mechanical features							
Housing			Insulation group I, RAL 7035				
Toggle			Insulation group II, Black RAL 9005, sealable in ON-OFF positions				
Electrical life		operations	10000				
Mechanical life		operations	20000				
Protection degree acc. to EN 60529	housing		IP40				
	terminals		IP20				
Shock resistance acc. to IEC/EN 60068-2-27			40 g (x,y,z) - 18 shocks - 5 ms half sinusoidal				
Vibration resistance acc. to IEC/EN 60068-2-6			0.35 mm or 5 g - 20 cycles at 5…150…5 Hz				
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C/RH	28 cycles with 55 °C/90–96 % and 25 °C/95–100 %				
Reference temperature for setting of thermal element		°C	30				
Ambient temperature (with daily average ≤ +35 °C)		°C	-25…+55				
Storage temperature		°C	-40…+70				
Installation							
Terminal type	top / bottom		Fail-safe terminals, bi-directional cylinder-lift terminal (shock protected)				
Terminal size for cables	top / bottom	mm^2	10 flexible /16 rigid top & bottom				
Terminal size for busbars	top / bottom	mm^2	10/10				
Tightening torque	top / bottom	Nm	3				
Stripping length of the cable		mm	12				
Mounting			on DIN rail EN 60715 (35 mm) by means of mounting clip				
Mounting position			Vertical & Horizontal				
Supply from			Top/Bottom terminals				
Dimensions and weight							
Dimensions (H×D×W)		mm	86×70×17.8 mm				
Weight		g	160				
Combination with auxiliary elements							
Combinable with accessories and auxiliaries			YES, G2C series				

MCBs

S203C - Technical features

			S203C		
			S203C T	**S203C L**	**S203C**
Standards			IEC/EN 60898-1		
Electrical features					
Number of poles			3P	3P	3P
Number of modules			2M	2M	2M
Tripping Characteristic			C	B, C	B, C
Rated current I_n		A	$2 \le I_n \le 32$	$2 \le I_n \le 32$	$2 \le I_n \le 32$
Rated operational voltage U_n		V	400/415	400/415	400/415
Rated insulation voltage U_i acc. to IEC/EN 60664-1		V	500 V AC	500 V AC	500 V AC
Overvoltage category			III	III	III
Pollution degree			2	2	2
Rated frequency		Hz	50/60	50/60	50/60
Min operating voltage		V AC/DC	12	12	12
Max operating voltage		V	440	440	440
Rated breaking capacity acc. to IEC/EN 60898-1	I_{cn}	A	3000	4500	6000
"Rated breaking capacity acc. to IEC/EN 60947-2 (only referring to internal short circuit test)"	ultimate I_{cu}	kA	3	6	6
	service I_{cs}	kA	3	4.5	6
Rated breaking capacity Icn1 acc. to IEC/ EN 60898-1	I_{cn1}	A	3000	4500	4500
"Rated breaking capacity acc. to IEC/EN 60947-2 in DC (only referring to internal short circuit test, poles connected in series, tc 4ms)"	ultimate I_{cu}	kA	NA	NA	NA
Rated impulse withstand voltage (1.2/50µs) U_{imp}		kV	4 kV	4 kV	4 kV
Dielectric test voltage at ind. freq. for 1 min.		kV	2.5 kV (50 / 60Hz, 1 min.)	2.5 kV (50 / 60Hz, 1 min.)	2.5 kV (50 / 60Hz, 1 min.)
Thermomagnetic release - characteristic	B: $3\ I_n \le I_m \le 5$ In			■	■
	C: $5\ I_n \le I_m \le 10\ I_n$		■	■	■
Energy limiting class			3		
Mechanical features					
Housing			Insulation group I, RAL 7035		
Toggle			Insulation group II, Black RAL 9005, sealable in ON-OFF positions		
Electrical life		operations	10000		
Mechanical life		operations	20000		
Protection degree acc. to EN 60529	housing		IP40		
	terminals		IP20		
Shock resistance acc. to IEC/EN 60068-2-27			40 g (x,y,z) - 18 shocks - 5 ms half sinusoidal		
Vibration resistance acc. to IEC/EN 60068-2-6			0.35 mm or 5 g - 20 cycles at 5…150…5 Hz		
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C/RH	28 cycles with 55 °C/90–96 % and 25 °C/95–100 %		
Reference temperature for setting of thermal element		°C	30		
Ambient temperature (with daily average ≤ +35 °C)		°C	-25…+55		
Storage temperature		°C	-40…+70		
Installation					
Terminal type	top / bottom		Fail-safe terminals, bi-directional cylinder-lift terminal (shock protected)		
Terminal size for cables	top / bottom	mm^2	10 flexible /16 rigid top & bottom		
Terminal size for busbars	top / bottom	mm^2	10/10		
Tightening torque	top / bottom	Nm	3		
Stripping length of the cable		mm	12		
Mounting			on DIN rail EN 60715 (35 mm) by means of mounting clip		
Mounting position			Vertical & Horizontal		
Supply from			Top/Bottom terminals		
Dimensions and weight					
Dimensions (H×D×W)		mm	86×70×35.6 mm		
Weight		g	320		
Combination with auxiliary elements					
Combinable with accessories and auxiliaries			YES, G2C series		

MCBs

S204C - Technical features

			S204C		
			S204C T	**S204C L**	**S204C**
Standards			IEC/EN 60898-1		
Electrical features					
Number of poles			4P	4P	4P
Number of modules			2M	2M	2M
Tripping Characteristic			C	B, C	B, C
Rated current I_n		A	$2 \le I_n \le 32$	$2 \le I_n \le 32$	$2 \le I_n \le 32$
Rated operational voltage U_n		V	400/415	400/415	400/415
Rated insulation voltage U_i acc. to IEC/EN 60664-1		V	500 V AC	500 V AC	500 V AC
Overvoltage category			III	III	III
Pollution degree			2	2	2
Rated frequency		Hz	50/60	50/60	50/60
Min operating voltage		V AC/DC	12	12	12
Max operating voltage		V	440	440	440
Rated breaking capacity acc. to IEC/EN 60898-1	I_{cn}	A	3000	4500	6000
"Rated breaking capacity acc. to IEC/EN 60947-2 (only referring to internal short circuit test)"	ultimate I_{cu}	kA	3	6	6
	service I_{cs}	kA	3	4.5	6
Rated breaking capacity Icn1 acc. to IEC/EN 60898-1	I_{cn1}	A	3000	4500	4500
"Rated breaking capacity acc. to IEC/EN 60947-2 in DC (only referring to internal short circuit test, poles connected in series, tc 4ms)"	ultimate I_{cu}	kA	3kA @ 220 VDC	4.5kA @ 220 VDC	6kA @ 220 VDC
Rated impulse withstand voltage (1.2/50µs) U_{imp}		kV	4 kV	4 kV	4 kV
Dielectric test voltage at ind. freq. for 1 min.		kV	2.5 kV (50 / 60Hz, 1 min.)	2.5 kV (50 / 60Hz, 1 min.)	2.5 kV (50 / 60Hz, 1 min.)
Thermomagnetic release - characteristic	B: $3 I_n \le I_m \le 5$ In			■	■
	C: $5 I_n \le I_m \le 10 I_n$		■	■	■
Energy limiting class			3		
Mechanical features					
Housing			Insulation group I, RAL 7035		
Toggle			Insulation group II, Black RAL 9005, sealable in ON-OFF positions		
Electrical life		operations	10000		
Mechanical life		operations	20000		
Protection degree acc. to EN 60529	housing		IP40		
	terminals		IP20		
Shock resistance acc. to IEC/EN 60068-2-27			40 g (x,y,z) - 18 shocks - 5 ms half sinusoidal		
Vibration resistance acc. to IEC/EN 60068-2-6			0.35 mm or 5 g - 20 cycles at 5…150…5 Hz		
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C/RH	28 cycles with 55 °C/90–96 % and 25 °C/95–100 %		
Reference temperature for setting of thermal element		°C	30		
Ambient temperature (with daily average ≤ +35 °C)		°C	-25…+55		
Storage temperature		°C	-40…+70		
Installation					
Terminal type	top / bottom		Fail-safe terminals, bi-directional cylinder-lift terminal (shock protected)		
Terminal size for cables	top / bottom	mm^2	10 flexible /16 rigid top & bottom		
Terminal size for busbars	top / bottom	mm^2	10/10		
Tightening torque	top / bottom	Nm	3		
Stripping length of the cable		mm	12		
Mounting			on DIN rail EN 60715 (35 mm) by means of mounting clip		
Mounting position			Vertical & Horizontal		
Supply from			Top/Bottom terminals		
Dimensions and weight					
Dimensions (H×D×W)		mm	86×70×35.6 mm		
Weight		g	320		
Combination with auxiliary elements					
Combinable with accessories and auxiliaries			YES, G2C series		

MCBs

S200C Compact MCBs - Ordering data



S2011C

S2011C: 1P+1P in 1M
Function: protection and control of the circuits against overloads and short-circuits
Applications: residential, commercial
Standard: IEC/EN 60898-1

Number of poles	Breaking capacity	Tripping Char.	Rated Current I_n A	Bbn 4053546 EAN	Order details		Weight 1 piece kg	Pack unit pc.
					Type code	Order code		
1+1	6kA	B	2	044485	S2011C-B2	2CDS251281R0025	0.160	12
			4	044508	S2011C-B4	2CDS251281R0045	0.160	12
			6	044522	S2011C-B6	2CDS251281R0065	0.160	12
			10	044546	S2011C-B10	2CDS251281R0105	0.160	12
			13	044560	S2011C-B13	2CDS251281R0135	0.160	12
			16	044584	S2011C-B16	2CDS251281R0165	0.160	12
			20	044607	S2011C-B20	2CDS251281R0205	0.160	12
		C	1	4022903028987	S2011C-C1	2CDS251281R0014	0.160	12
			2	044478	S2011C-C2	2CDS251281R0024	0.160	12
			4	044492	S2011C-C4	2CDS251281R0044	0.160	12
			6	044515	S2011C-C6	2CDS251281R0064	0.160	12
			10	044539	S2011C-C10	2CDS251281R0104	0.160	12
			13	044553	S2011C-C13	2CDS251281R0134	0.160	12
			16	044577	S2011C-C16	2CDS251281R0164	0.160	12
			20	044591	S2011C-C20	2CDS251281R0204	0.160	12

MCBs

S200C Compact MCBs - Ordering data



S202C

S202C: 2P in 1M

Function: protection and control of the circuits against overloads and short-circuits
Applications: residential, commercial
Standard: IEC/EN 60898-1

Number of poles	Breaking capacity	Tripping Char.	Rated Current I_n A	Bbn 4053546 EAN	Order details		Weight 1 piece kg	Pack unit pc.
					Type code	Order code		
2	3 kA	C	2	042122	S202CT-C2	2CDS232280R0024	0.160	12
			4	043730	S202CT-C4	2CDS232280R0044	0.160	12
			6	043747	S202CT-C6	2CDS232280R0064	0.160	12
			10	043754	S202CT-C10	2CDS232280R0104	0.160	12
			16	043761	S202CT-C16	2CDS232280R0164	0.160	12
			20	043778	S202CT-C20	2CDS232280R0204	0.160	12
			25	043785	S202CT-C25	2CDS232280R0254	0.160	12
			32	043792	S202CT-C32	2CDS232280R0324	0.160	12
			40	043808	S202CT-C40	2CDS232280R0404	0.160	12
2	4.5 kA	B	2	043983	S202CL-B2	2CDS242280R0025	0.160	12
			4	044003	S202CL-B4	2CDS242280R0045	0.160	12
			6	044027	S202CL-B6	2CDS242280R0065	0.160	12
			10	044041	S202CL-B10	2CDS242280R0105	0.160	12
			16	044065	S202CL-B16	2CDS242280R0165	0.160	12
			20	044089	S202CL-B20	2CDS242280R0205	0.160	12
			25	044102	S202CL-B25	2CDS242280R0255	0.160	12
			32	044126	S202CL-B32	2CDS242280R0325	0.160	12
			40	044140	S202CL-B40	2CDS242280R0405	0.160	12
		C	2	043976	S202CL-C2	2CDS242280R0024	0.160	12
			4	043990	S202CL-C4	2CDS242280R0044	0.160	12
			6	044010	S202CL-C6	2CDS242280R0064	0.160	12
			10	044034	S202CL-C10	2CDS242280R0104	0.160	12
			16	044058	S202CL-C16	2CDS242280R0164	0.160	12
			20	044072	S202CL-C20	2CDS242280R0204	0.160	12
			25	044096	S202CL-C25	2CDS242280R0254	0.160	12
			32	044119	S202CL-C32	2CDS242280R0324	0.160	12
			40	044133	S202CL-C40	2CDS242280R0404	0.160	12
2	6 kA	B	2	044621	S202C-B2	2CDS252280R0025	0.160	12
			4	044645	S202C-B4	2CDS252280R0045	0.160	12
			6	044669	S202C-B6	2CDS252280R0065	0.160	12
			10	044683	S202C-B10	2CDS252280R0105	0.160	12
			13	044706	S202C-B13	2CDS252280R0135	0.160	12
			16	044737	S202C-B16	2CDS252280R0165	0.160	12
			20	044751	S202C-B20	2CDS252280R0205	0.160	12
			25	044775	S202C-B25	2CDS252280R0255	0.160	12
			32	044799	S202C-B32	2CDS252280R0325	0.160	12
			40	044812	S202C-B40	2CDS252280R0405	0.160	12
		C	2	044614	S202C-C2	2CDS252280R0024	0.160	12
			4	044638	S202C-C4	2CDS252280R0044	0.160	12
			6	044652	S202C-C6	2CDS252280R0064	0.160	12
			10	044676	S202C-C10	2CDS252280R0104	0.160	12
			13	044690	S202C-C13	2CDS252280R0134	0.160	12
			15	044713	S202C-C15	2CDS252280R0154	0.160	12
			16	044720	S202C-C16	2CDS252280R0164	0.160	12
			20	044744	S202C-C20	2CDS252280R0204	0.160	12
			25	044768	S202C-C25	2CDS252280R0254	0.160	12
			32	044782	S202C-C32	2CDS252280R0324	0.160	12
			40	044805	S202C-C40	2CDS252280R0404	0.160	12

MCBs

S200C Compact MCBs - Ordering data



S202C

S202C: 2P in 1M

Function: protection and control of the circuits against overloads and short-circuits
Applications: residential, commercial
Standard: IEC/EN 60898-1

Number of poles	Breaking capacity	Tripping Char.	Rated Current I_n A	Bbn 4053546 EAN	Order details		Weight 1 piece kg	Pack unit pc.
					Type code	Order code		
2	10kA	B	2	039481	S202CM-B2	2CDS272280R0025	0.160	12
			4	039498	S202CM-B4	2CDS272280R0045	0.160	12
			6	039504	S202CM-B6	2CDS272280R0065	0.160	12
			10	039511	S202CM-B10	2CDS272280R0105	0.160	12
			13	039528	S202CM-B13	2CDS272280R0135	0.160	12
			16	039535	S202CM-B16	2CDS272280R0165	0.160	12
			20	039542	S202CM-B20	2CDS272280R0205	0.160	12
			25	039559	S202CM-B25	2CDS272280R0255	0.160	12
			32	039566	S202CM-B32	2CDS272280R0325	0.160	12
		C	2	039221	S202CM-C2	2CDS272280R0024	0.160	12
			4	039405	S202CM-C4	2CDS272280R0044	0.160	12
			6	039412	S202CM-C6	2CDS272280R0064	0.160	12
			10	039429	S202CM-C10	2CDS272280R0104	0.160	12
			13	039436	S202CM-C13	2CDS272280R0134	0.160	12
			15	045321	S202CM-C15	2CDS272280R0154	0.160	12
			16	039443	S202CM-C16	2CDS272280R0164	0.160	12
			20	039450	S202CM-C20	2CDS272280R0204	0.160	12
			25	039467	S202CM-C25	2CDS272280R0254	0.160	12
			32	039474	S202CM-C32	2CDS272280R0324	0.160	12

MCBs

S200C Compact MCBs - Ordering data



S202TC

S202TC: 2P in 1M for traction
Function: protection and control of the circuits against overloads and short-circuits
Applications: traction
Standard: IEC/EN 60898-1
Plastic material acc. to UL94 and IEC/EN 60695-11: V0
Classification according to EN 45545-1:2013 and EN 45545-2:2013+A1:2015: R26/HL3
Shocks and vibrations according to standard IEC/ EN 61373: Category 1, class B

Number of poles	Breaking capacity	Tripping Char.	Rated Current I_n A	Bbn 4053546 EAN	Order details		Weight 1 piece kg	Pack unit pc.
					Type code	Order code		
2	6kA	B	2	044836	S202TC-B2	2CDS252282R0025	0.160	12
			4	044850	S202TC-B4	2CDS252282R0045	0.160	12
			6	044874	S202TC-B6	2CDS252282R0065	0.160	12
			10	044898	S202TC-B10	2CDS252282R0105	0.160	12
			16	044911	S202TC-B16	2CDS252282R0165	0.160	12
			20	044935	S202TC-B20	2CDS252282R0205	0.160	12
			25	044959	S202TC-B25	2CDS252282R0255	0.160	12
			32	044973	S202TC-B32	2CDS252282R0325	0.160	12
		C	2	044829	S202TC-C2	2CDS252282R0024	0.160	12
			4	044843	S202TC-C4	2CDS252282R0044	0.160	12
			6	044867	S202TC-C6	2CDS252282R0064	0.160	12
			10	044881	S202TC-C10	2CDS252282R0104	0.160	12
			16	044904	S202TC-C16	2CDS252282R0164	0.160	12
			20	044928	S202TC-C20	2CDS252282R0204	0.160	12
			25	044942	S202TC-C25	2CDS252282R0254	0.160	12
			32	044966	S202TC-C32	2CDS252282R0324	0.160	12

MCBs

S200C Compact MCBs - Ordering data



S203C

S203C: 3P in 2M

Function: protection and control of the circuits against overloads and short-circuits
Applications: residential, commercial, industrial
Standard: IEC/EN 60898-1

Number of poles	Breaking capacity	Tripping Char.	Rated Current I_n A	Bbn 4053546 EAN	Order details		Weight 1 piece kg	Pack unit pc.
					Type code	Order code		
3	3 kA	C	2	043815	S203CT-C2	2CDS233280R0024	0.320	6
			4	043822	S203CT-C4	2CDS233280R0044	0.320	6
			6	043839	S203CT-C6	2CDS233280R0064	0.320	6
			10	043846	S203CT-C10	2CDS233280R0104	0.320	6
			16	043853	S203CT-C16	2CDS233280R0164	0.320	6
			20	043860	S203CT-C20	2CDS233280R0204	0.320	6
			25	043877	S203CT-C25	2CDS233280R0254	0.320	6
			32	043884	S203CT-C32	2CDS233280R0324	0.320	6
3	4.5 kA	B	2	044164	S203CL-B2	2CDS243280R0025	0.320	6
			4	044188	S203CL-B4	2CDS243280R0045	0.320	6
			6	044201	S203CL-B6	2CDS243280R0065	0.320	6
			10	044225	S203CL-B10	2CDS243280R0105	0.320	6
			16	044249	S203CL-B16	2CDS243280R0165	0.320	6
			20	044263	S203CL-B20	2CDS243280R0205	0.320	6
			25	044287	S203CL-B25	2CDS243280R0255	0.320	6
			32	044300	S203CL-B32	2CDS243280R0325	0.320	6
		C	2	044157	S203CL-C2	2CDS243280R0024	0.320	6
			4	044171	S203CL-C4	2CDS243280R0044	0.320	6
			6	044195	S203CL-C6	2CDS243280R0064	0.320	6
			10	044218	S203CL-C10	2CDS243280R0104	0.320	6
			16	044232	S203CL-C16	2CDS243280R0164	0.320	6
			20	044256	S203CL-C20	2CDS243280R0204	0.320	6
			25	044270	S203CL-C25	2CDS243280R0254	0.320	6
			32	044294	S203CL-C32	2CDS243280R0324	0.320	6
3	6 kA	B	2	045017	S203C-B2	2CDS253280R0025	0.320	6
			4	045031	S203C-B4	2CDS253280R0045	0.320	6
			6	045055	S203C-B6	2CDS253280R0065	0.320	6
			10	045079	S203C-B10	2CDS253280R0105	0.320	6
			16	045093	S203C-B16	2CDS253280R0165	0.320	6
			20	045116	S203C-B20	2CDS253280R0205	0.320	6
			25	045130	S203C-B25	2CDS253280R0255	0.320	6
			32	045154	S203C-B32	2CDS253280R0325	0.320	6
		C	2	045000	S203C-C2	2CDS253280R0024	0.320	6
			4	045024	S203C-C4	2CDS253280R0044	0.320	6
			6	045048	S203C-C6	2CDS253280R0064	0.320	6
			10	045062	S203C-C10	2CDS253280R0104	0.320	6
			16	045086	S203C-C16	2CDS253280R0164	0.320	6
			20	045109	S203C-C20	2CDS253280R0204	0.320	6
			25	045123	S203C-C25	2CDS253280R0254	0.320	6
			32	045147	S203C-C32	2CDS253280R0324	0.320	6

MCBs

S200C Compact MCBs - Ordering data



S204C

S204C: 4P in 2M

Function: protection and control of the circuits against overloads and short-circuits

Applications: residential, commercial, industrial

Standard: IEC/EN 60898-1

Number of poles	Breaking capacity	Tripping Char.	Rated Current I_n A	Bbn 4053546 EAN	Order details		Weight 1 piece kg	Pack unit pc.
					Type code	Order code		
4	3 kA	C	2	043891	S204CT-C2	2CDS234280R0024	0.320	6
			4	043907	S204CT-C4	2CDS234280R0044	0.320	6
			6	043914	S204CT-C6	2CDS234280R0064	0.320	6
			10	043921	S204CT-C10	2CDS234280R0104	0.320	6
			16	043938	S204CT-C16	2CDS234280R0164	0.320	6
			20	043945	S204CT-C20	2CDS234280R0204	0.320	6
			25	043952	S204CT-C25	2CDS234280R0254	0.320	6
			32	043969	S204CT-C32	2CDS234280R0324	0.320	6
4	4.5 kA	B	2	044324	S204CL-B2	2CDS244280R0025	0.320	6
			4	044348	S204CL-B4	2CDS244280R0045	0.320	6
			6	044362	S204CL-B6	2CDS244280R0065	0.320	6
			10	044386	S204CL-B10	2CDS244280R0105	0.320	6
			16	044409	S204CL-B16	2CDS244280R0165	0.320	6
			20	044423	S204CL-B20	2CDS244280R0205	0.320	6
			25	044447	S204CL-B25	2CDS244280R0255	0.320	6
			32	044461	S204CL-B32	2CDS244280R0325	0.320	6
		C	2	044317	S204CL-C2	2CDS244280R0024	0.320	6
			4	044331	S204CL-C4	2CDS244280R0044	0.320	6
			6	044355	S204CL-C6	2CDS244280R0064	0.320	6
			10	044379	S204CL-C10	2CDS244280R0104	0.320	6
			16	044393	S204CL-C16	2CDS244280R0164	0.320	6
			20	044416	S204CL-C20	2CDS244280R0204	0.320	6
			25	044430	S204CL-C25	2CDS244280R0254	0.320	6
			32	044454	S204CL-C32	2CDS244280R0324	0.320	6
4	6 kA	B	2	045178	S204C-B2	2CDS254280R0025	0.320	6
			4	045192	S204C-B4	2CDS254280R0045	0.320	6
			6	045215	S204C-B6	2CDS254280R0065	0.320	6
			10	045239	S204C-B10	2CDS254280R0105	0.320	6
			16	045253	S204C-B16	2CDS254280R0165	0.320	6
			20	045277	S204C-B20	2CDS254280R0205	0.320	6
			25	045291	S204C-B25	2CDS254280R0255	0.320	6
			32	045314	S204C-B32	2CDS254280R0325	0.320	6
		C	2	045161	S204C-C2	2CDS254280R0024	0.320	6
			4	045185	S204C-C4	2CDS254280R0044	0.320	6
			6	045208	S204C-C6	2CDS254280R0064	0.320	6
			10	045222	S204C-C10	2CDS254280R0104	0.320	6
			16	045246	S204C-C16	2CDS254280R0164	0.320	6
			20	045260	S204C-C20	2CDS254280R0204	0.320	6
			25	045284	S204C-C25	2CDS254280R0254	0.320	6
			32	045307	S204C-C32	2CDS254280R0324	0.320	6

MCBs

S 200 80A-100A series technical features



S 200 80-100A

	S 200 80A-100A
General Data	
Standards	IEC/EN 60898-1, IEC/EN 60947-2
Poles	1P, 2P, 3P, 4P, 1P+N, 3P+N
Tripping characteristics	B, C
Rated current I_n	80 A, 100 A
Rated frequency f	50/60 Hz
Rated insulation voltage Ui acc. to IEC/EN 60664-1 (VDE 0110-1)	440 V AC
Overvoltage category	III
Pollution degree	3
IEC/EN 60898-1	
Rated operational voltage U_n	1P: 230/400 V AC; 1P+N: 230 V AC; 2P, 3P, 4P, 3P+N: 400 V AC
Max. power frequency recovery voltage U_{max}	1P: 253/440 V AC; 1P+N: 253 V AC; 2P, 3P, 4P, 3P+N: 440 V AC
Min. operating voltage	12 V AC
Rated short-circuit capacity I_{cn}	6 kA
Rated impulse withstand voltage U_{imp} (1.2/50µs)	4 kV (test voltage 6.2 kV at sea level, 5 kV at 2,000 m)
Dielectrical test voltage	2 kV (50/60 Hz, 1 min.)
Reference temperature for tripping characteristics	B, C: 30 °C
Electrical endurance	10,000 ops. (AC); one cycle 2 s - ON, 28 s - OFF
IEC/EN 60947-2	
Rated operational voltage U_e	1P, 1P+N: 230 V AC; 2P, 3P, 4P, 3P+N: 400 V AC
Max. power frequency recovery voltage U_{max}	1P, 1P+N: 253 V AC; 2P, 3P, 4P, 3P+N: 440 V AC
Min. operating voltage	12 V AC
Rated ultimate short-circuit breaking capacity I_{cu}	6 kA
Rated service short-circuit breaking capacity I_{cs}	6 kA
Rated impulse withstand voltage U_{imp} (1.2/50 µs)	4 kV (test voltage 6.2 kV at sea level, 5 kV at 2,000 m)
Dielectrical test voltage	2 kV (50/60 Hz, 1 min.)

MCBs

S 200 80A-100A series technical features



S 200 80-100A

Reference temperature for tripping characteristics	B, C: 55 °C
Electrical endurance	10,000 ops. (AC); one cycle 2 s - ON, 28 s - OFF
Mechanical data	
Housing	Insulation group I, RAL 7035
Toggle	Insulation group II, black, sealable
Contact position indication	Real CPI (red ON/green OFF)
Protection degree acc. to DIN EN 60529	IP20[1)], IP40 in enclosure with cover
Mechanical endurance	20,000 ops.
Shock resistance acc. to DIN EN 60068-2-27	25 g, 2 shocks, 13 ms
Vibration resistance acc. to DIN EN 60068-2-6	5 g, 20 cycles at 5…150…5 Hz at 0.8 I_n
Environmental conditions (Damp heat cyclic) acc. to DIN EN 60068-2-30	28 cycles with 55 °C/90-96 % and 25 °C/95-100 %
Ambient temperature	-25 ... +55 °C
Storage temperature	-40 ... +70 °C
	S 200 80A-100A
Installation	
Terminal	Failsafe bi-directional cache clamp
Cross-section of conductors (top/bottom)	solid, stranded: 50 mm^2 / 50 mm^2 flexible: 50 mm^2 / 50 mm^2
Cross-section of busbars (top/bottom)	16 mm^2 / 16 mm^2
Torque	3.0 Nm
Screwdriver	Nr. 2 Pozidriv
Mounting	On DIN rail 35 mm acc. to EN 60715 by fast clip
Mounting position	any
Supply	any
Dimensions and weight	
Mounting dimensions acc. to DIN 43880	Mounting dimension 1
Pole dimensions (H x T x B)	88.8 x 69 x 17.5
Pole weight	approx. 126 g
Combination with auxiliary elements	
Auxiliary contact	Yes
Signal/auxiliary contact	Yes
Shunt trip	Yes
Undervoltage release	Yes
Motor Operating Device	Yes

MCBs

S 200 80A-100A



S 201 80-100A



S 202 80-100A



S 203 80-100A



S 204 80-100A



S 201 80-100A NA



S 203 80-100A NA

The miniature circuit breakers of the System pro M compact® series S 200 provide state-of-the-art safety and comfort. They stand out due to their high performance and the wide range of accessories and approvals.

The additional electrical currents 80 A and 100 A complement the current portfolio of the System pro M compact® and offer maximum performance in a single module width.

- Clear contact position indication in red/green (“real CPI”)
- Unique, patented twin terminal with captive screws and an increased opening for cables up to max. 50 mm², finger-proof (IP20)
- Busbar slot in the back for best visibility during installation
- High performance in building installations and industrial applications up to 6 kA at Ue = 400 V AC acc. to IEC/EN 60947-2 and IEC/EN 60898-1
- Individual product identification code
- Approved acc. to IEC/EN 60898-1 and IEC/EN 60947-2 for global use

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
B characteristic							
1	80	916516	S201-B80	2CDS251001R0805		0.128	10
	100	916530	S201-B100	2CDS251001R0825		0.128	10
2	80	916677	S202-B80	2CDS252001R0805		0.256	5
	100	916691	S202-B100	2CDS252001R0825		0.256	5
3	80	916271	S203-B80	2CDS253001R0805		0.384	1
	100	916295	S203-B100	2CDS253001R0825		0.384	1
4	80	916431	S204-B80	2CDS254001R0805		0.512	1
	100	916455	S204-B100	2CDS254001R0825		0.512	1
1+NA	80	916592	S201-B80NA	2CDS251103R0805		0.256	5
	100	916615	S201-B100NA	2CDS251103R0825		0.256	5
3+NA	80	916356	S203-B80NA	2CDS253103R0805		0.512	1
	100	916370	S203-B100NA	2CDS253103R0825		0.512	1
C characteristic							
1	80	916509	S201-C80	2CDS251001R0804		0.128	10
	100	916523	S201-C100	2CDS251001R0824		0.128	10
2	80	916660	S202-C80	2CDS252001R0804		0.256	5
	100	916684	S202-C100	2CDS252001R0824		0.256	5
3	80	916264	S203-C80	2CDS253001R0804		0.384	1
	100	916288	S203-C100	2CDS253001R0824		0.384	1
4	80	916424	S204-C80	2CDS254001R0804		0.512	1
	100	916448	S204-C100	2CDS254001R0824		0.512	1
1+NA	80	916585	S201-C80NA	2CDS251103R0804		0.256	5
	100	916608	S201-C100NA	2CDS251103R0824		0.256	5
3+NA	80	916349	S203-C80NA	2CDS253103R0804		0.512	1
	100	916363	S203-C100NA	2CDS253103R0824		0.512	1

Selective Main Circuit-Breakers

S 750 DR series acc. to IEC/EN 60947-2



Selective main circuit-breakers (SMCB) of the S 750 DR series are circuit-breakers with particular selectivity functions based on voltage-independent operating principle. This means that they do not rely on a control circuit to make or break contact and are therefore particularly suitable for use in energy distribution-systems with maximum availability requirements. The unique working principle of “current limiting selectivity” offers new approaches for coordination of overcurrent protective devices.

- High short-circuit breaking capability of 25 kA over the complete rated current range
- High energy-limiting capacity by current-limiting selectivity without any configuration
- Suitable for selective overcurrent protection in general purpose electric main distribution boards
- Suitable to disconnect and isolate electric circuits
- Voltage-independent function (no connection to neutral)
- Applicable in installations acc. to: overvoltage category I … IV, pollution degree 1 … 3
- For DIN rail mounting
- Isolation function according to IEC 60364-5-53
- Additional contact position indicator RED = ON ; GREEN = OFF
- Lockable and sealable
- For operation by ordinary people

Fields of application

- As main isolating device in meter boards for downstream customer´s installation
- In main distribution boards or switchgear as a selective group or back-up protection device, especially where a high degree of continuity of supply is required, e.g. for installations related to “Safety Services” (IEC 60346-5-56), “Medical Locations” (IEC 60364-7-710) etc.
- For general applications: tripping characteristic E
- For the protection of circuits where high current peaks occur (e.g. inrush currents): tripping characteristic K

Purpose

- Ensure power supply capability over a large temperature range
- Protect wires and cables in case of operational overload or short-circuit
- Additional limitation of let-through current and let-through energy in case of short-circuit tripping in final circuit and therefore less stress for the installation
- Disconnection and isolation of the system, also by ordinary people
- Special selectivity with respect to downstream circuit breakers and upstream fuses
- Ensure a high availability of the electrical power supply

SMCBs

S 750 DR series technical features



S 750 DR

			S 750 DR
General Data	Standards		IEC/EN 60947-2
	Poles		1P, 2P, 3P, 4P
	Tripping characteristics		$E_{selective}$, $K_{selective}$
	Rated current I_n	A	16…100
	Rated frequency f	Hz	50 / 60
Electrical Data acc. to IEC/ EN 60947-2	Rated operational voltage U_e	V AC	230 (1-pole), 400 (2-, 3-, 4-pole)
	Rated breaking capacity I_{cu}	kA	25
	Rated service breaking capacity I_{cs}	kA	12.5
	Rated insulation voltage U_i	V	690
	Selectivity limit current Is1		rated breaking capacity of downstream breaker (min.) – see selectivity tables
	Overvoltage category		IV
	Pollution degree		3
	Rated impulse withstand voltage $U_{imp.}$	kV	6
	Impulse withstand voltage acc. to IEC 60364-5-53 (at 2000m above sea level)	kV	8
	Impulse withstand test voltage (1.2/50µs)	kV	9.8
	Isolation function acc. to IEC 60364-5-53		yes
	Dielectric test voltage (50/60 Hz, 1 min.)	kV	2 (50 / 60 Hz, 1 min.)
Mechanical Data	Contact position indication		via toggle (I-ON / O-OFF), via trip indicator (red-ON / green-OFF)
	IP protection degree acc. to IEC/EN 60529		IP40 (when protected by cabinet cover)
	Shock resistance acc. to IEC / EN 60068-2-27		25 g, min. 3 shocks, duration 13 ms
	Vibration resistance acc. to IEC/EN 60068-2-6		2 g, 20 cycles 5…150…5 Hz
	Environmental conditions (damp heat cyclic) acc. to IEC/EN 60068-2-30	°C/ RH	28 cycles: 55 / 90…96 – 25 / 95…100
	Ambient temperature	°C	-25 … +55
	Storage temperature	°C	-40 … +70
Installation	Wire connection (Top)		frame terminal to connect solid and rigid stranded conductors incl. flexible conductors 2.5…50 mm²
	Wire connection (Bottom)		frame terminal to connect solid and rigid stranded conductors incl. flexible conductors 2.5…50 mm²
	Max. torque	Nm	2.5 … 3
	Recommended Screwdriver		slotted: 1 x 5.5, Pozidrive: PZ 2
	Mounting		DIN rail 35 mm acc. to EN 60715
	Locking		integrated blocking device, additional locking by 3 mm padlock, 1mm seal wire or cabel binder
	Mounting position		any
	Supply		any
Dimensions and weight	Pole dimensions (H x D x W)	mm	see drawings
	Pole weight	g	see order tables
Accessories			3 mm padlock
			auxiliary contact S750DR-aux
			40mm busbar adapter S750DR-QA

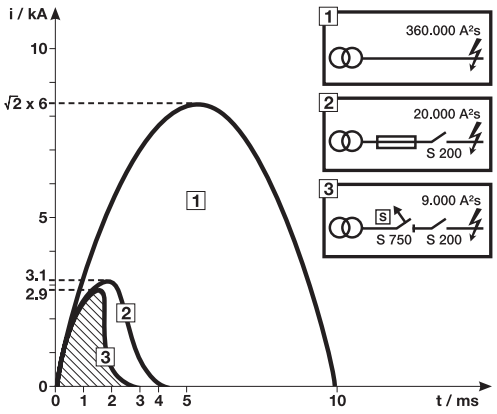
Short-circuit selectivity

Selective Main Circuit-Breaker series S 750 DR

Energy limitation

S 750 DR selective main circuit breakers operate in such a way that they support cascaded downstream mcbs when a short-circuit occurs. Its energy-limiting features preserve the installation and reduce harmful repercussions on the network of the operator to a minimum.

Independant of current rating of S 750 DR, short-circuit selectivity of up to 10,000 A or even higher is available for the downstream miniature circuit-breakers.



Back-up protection

Main circuit breakers of the S 750 DR series are capable of switching off short-circuit currents of up to 25 kA automatically in networks with a rated voltage of 230 / 400 V. Back-up protection is only necessary if the prospective short-circuit current may exceed 25 kA prosp. at the installation point. Further information on back-up protection is available on request.

SMCBs

S 750 DR series - selective main circuit-breakers, $E_{selective}$ characteristic



S 751 DR



S 752 DR



S 753 DR



S 754 DR

S 750 series DR

Selective main circuit-breakers of the S 750 DR series are SMCBs based on DIN VDE 0641-21 with voltage-independent operating principle. This means that they do not rely on a control circuit to make or break contact (SHU) and are therefore particularly suitable for use in energy distributionsystems with maximum availability requirements. They offer total selectivity to downstream MCBs and outstanding selectivity to upstream protective devices due to unique current limiting selectivity.

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	16	878968	S751DR-E16	2CDH781010R0162		0.35	3
	20	878975	S751DR-E20	2CDH781010R0202		0.35	3
	25	878982	S751DR-E25	2CDH781010R0252		0.35	3
	32	878999	S751DR-E32	2CDH781010R0322		0.35	3
	40	879019	S751DR-E40	2CDH781010R0402		0.35	3
	50	879026	S751DR-E50	2CDH781010R0502		0.35	3
	63	879033	S751DR-E63	2CDH781010R0632		0.35	3
	80	879040	S751DR-E80	2CDH781010R0802		0.40	3
	100	879057	S751DR-E100	2CDH781010R0822		0.40	3
2	16	879361	S752DR-E16	2CDH782010R0162		0.70	2
	20	879378	S752DR-E20	2CDH782010R0202		0.70	2
	25	879385	S752DR-E25	2CDH782010R0252		0.70	2
	32	879392	S752DR-E32	2CDH782010R0322		0.70	2
	40	879415	S752DR-E40	2CDH782010R0402		0.70	2
	50	879422	S752DR-E50	2CDH782010R0502		0.70	2
	63	879439	S752DR-E63	2CDH782010R0632		0.70	2
	80	879446	S752DR-E80	2CDH782010R0802		0.75	2
	100	879453	S752DR-E100	2CDH782010R0822		0.75	2
3	16	879569	S753DR-E16	2CDH783010R0162		1.05	1
	20	879576	S753DR-E20	2CDH783010R0202		1.05	1
	25	879583	S753DR-E25	2CDH783010R0252		1.05	1
	32	879590	S753DR-E32	2CDH783010R0322		1.05	1
	40	879613	S753DR-E40	2CDH783010R0402		1.05	1
	50	879620	S753DR-E50	2CDH783010R0502		1.05	1
	63	879637	S753DR-E63	2CDH783010R0632		1.05	1
	80	879644	S753DR-E80	2CDH783010R0802		1.10	1
	100	879651	S753DR-E100	2CDH783010R0822		1.10	1
4	16	879767	S754DR-E16	2CDH784010R0162		1.40	1
	20	879774	S754DR-E20	2CDH784010R0202		1.40	1
	25	879781	S754DR-E25	2CDH784010R0252		1.40	1
	32	879798	S754DR-E32	2CDH784010R0322		1.40	1
	40	879811	S754DR-E40	2CDH784010R0402		1.40	1
	50	879828	S754DR-E50	2CDH784010R0502		1.40	1
	63	879835	S754DR-E63	2CDH784010R0632		1.40	1
	80	879842	S754DR-E80	2CDH784010R0802		1.45	1
	100	879859	S754DR-E100	2CDH784010R0822		1.45	1

Due to the lack of international product standards for SMCB, S750DR products as given in this catalogue are certified acc. to IEC/EN 60947-2. If requested, S750 (for 40mm busbar systems) and S750DR (for DIN rail mounting) are also available with a certification based on a German SMCB standard. Please contact your ABB office for further information.

SMCBs

S 750 DR series - selective main circuit-breakers, $K_{selective}$ characteristic



S 751 DR



S 752 DR



S 753 DR

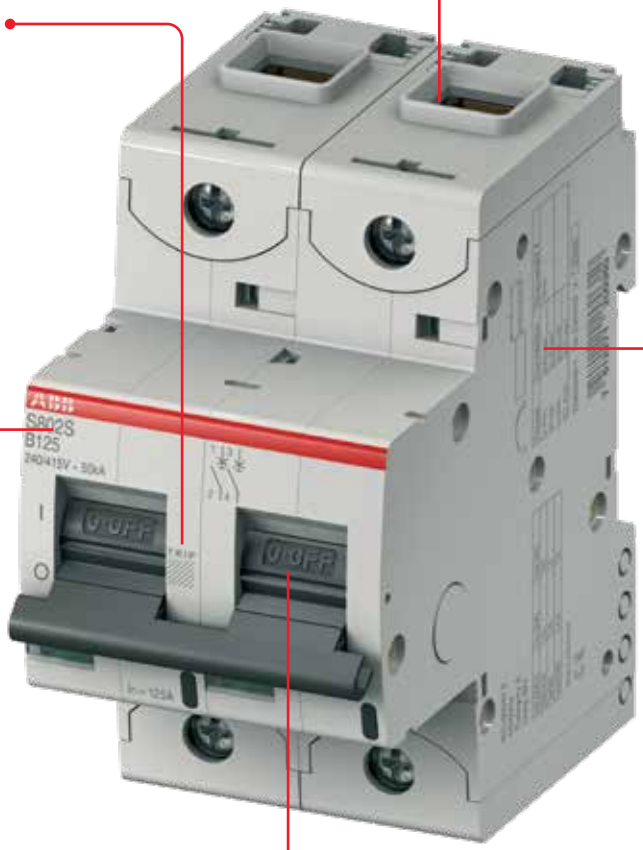


S 754 DR

Number of poles	Rated current In A	Bbn 4016779 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	16	879064	S751DR-K16	2CDH781010R0467		0.35	3
	20	879071	S751DR-K20	2CDH781010R0487		0.35	3
	25	879088	S751DR-K25	2CDH781010R0517		0.35	3
	32	879095	S751DR-K32	2CDH781010R0537		0.35	3
	40	879118	S751DR-K40	2CDH781010R0557		0.35	3
	50	879125	S751DR-K50	2CDH781010R0577		0.35	3
	63	879132	S751DR-K63	2CDH781010R0607		0.35	3
	80	879149	S751DR-K80	2CDH781010R0627		0.40	3
	100	879156	S751DR-K100	2CDH781010R0637		0.40	3
2	16	879460	S752DR-K16	2CDH782010R0467		0.70	2
	20	879477	S752DR-K20	2CDH782010R0487		0.70	2
	25	879484	S752DR-K25	2CDH782010R0517		0.70	2
	32	879491	S752DR-K32	2CDH782010R0537		0.70	2
	40	879514	S752DR-K40	2CDH782010R0557		0.70	2
	50	879521	S752DR-K50	2CDH782010R0577		0.70	2
	63	879538	S752DR-K63	2CDH782010R0607		0.70	2
	80	879545	S752DR-K80	2CDH782010R0627		0.75	2
	100	879552	S752DR-K100	2CDH782010R0637		0.75	2
3	16	879668	S753DR-K16	2CDH783010R0467		1.05	1
	20	879675	S753DR-K20	2CDH783010R0487		1.05	1
	25	879682	S753DR-K25	2CDH783010R0517		1.05	1
	32	879699	S753DR-K32	2CDH783010R0537		1.05	1
	40	879712	S753DR-K40	2CDH783010R0557		1.05	1
	50	879729	S753DR-K50	2CDH783010R0577		1.05	1
	63	879736	S753DR-K63	2CDH783010R0607		1.05	1
	80	879743	S753DR-K80	2CDH783010R0627		1.10	1
	100	879750	S753DR-K100	2CDH783010R0637		1.10	1
4	16	879866	S754DR-K16	2CDH784010R0467		1.40	1
	20	879873	S754DR-K20	2CDH784010R0487		1.40	1
	25	879880	S754DR-K25	2CDH784010R0517		1.40	1
	32	879897	S754DR-K32	2CDH784010R0537		1.40	1
	40	879910	S754DR-K40	2CDH784010R0557		1.40	1
	50	879927	S754DR-K50	2CDH784010R0577		1.40	1
	63	879934	S754DR-K63	2CDH784010R0607		1.40	1
	80	879941	S754DR-K80	2CDH784010R0627		1.45	1
	100	879958	S754DR-K100	2CDH784010R0637		1.45	1

High Performance MCB S800

Incomparable performances



Interchangeable terminal, failsafe cage or ring lug terminal

Clear identification of the reason of cut-off thanks to TRIP position of the toggle

Quick identification of technical characteristics thanks to laser-printing of all data

Easy product name, easy identification, easy life.

Clear identification of the moving contact position thanks to toggle identification ON, OFF and TRIP position



Housing materials
In the S800 range of MCBs for traction, specific materials are used that are classified with an hazard level R26/HL3 according to EN 45545-2. Plastic materials are also classified I2-F3 according the NF F 16-101/102 (“Railway Rolling Stock Fire Behavior-Choice of Materials„ and “Railway Rolling Stock Fire Behavior- Choice of Materials, Application to Electrical Equipment„) thus responding to exigency 3.



Shock and vibration resistance
Additionally to the high quality standards and the flammability requirements, rail applications have specific demands that have to be to fulfi lled like resistance to shocks and vibrations. The resistance to vibrations and shocks of S800 has been positively tested according to: IEC 61373 – 2010 – 05 Edition 2.0 Rolling stock equipment – Shock and vibration tests considering Category 1, Class A and Class B.



Play it safe: display the operational state
The mechanical drive of the S800 high performance MCB is equipped with a trip-free release. The trip position display thereby always reliably displays the exact position of the moving contact. The trip position provides additional trip detection allowing to easily identify the reason for the cut-off. The switch lever moves to the middle position in case of thermal or magnetic tripping.



Cage and ring terminals
The S800 standard equipment with interchangeable terminal adapter for wires, cables and rigid conductors guarantees a high level of flexibility and comfort. Fast and safe connection of the conductors is ensured by the “onboard terminal shutter” integrated into the body of the terminal, thereby preventing incorrect underclamping of the connections.



Reliable: the disconnector properties In OFF position (0 position), the S800 high performance MCB guarantees safe electrical isolation of the circuit compliant to IEC 60947-2.



Wide range of accessories
S800 MCB range is completed with a wide range of accessories that enlarge the functions of the MCB not only as a protection devices, but even for control and monitor remotely the installation. The range of accessories include auxiliary contacts, aux/signal contacts, remote switching unit, short circuit limiter, shunt operation releases, undervoltage releases and busbars.

MCBs

S800S series technical features

		S800S	S803S-KM	S800S-UC
General Data				
Tripping characteristics		B, C, D, K,	KM	UCB, UCK
Standards		IEC/EN 60947-2, EN 60898-1, UL 1077	IEC/EN 60947-2	IEC/EN 60947-2
Poles		1 … 4	3	1 … 4
Rated current I_e	A	0.5 … 125	10 … 80	0.5 … 125
Rated frequency f	Hz	50/60	50/60	50/60
Rated insulation voltage U_i acc. to IEC/EN 60664-1	V	AC 690	AC 690	DC 1500
Rated impulse withstand voltage $U_{imp.}$ (1.2/50µs)	kV	8	8	8
Overvoltage category		IV	IV	III
Pollution degree		3	3	2
Suitability for isolation		yes	yes	yes
Data acc. to IEC/EN 60898-1				
Rated operational voltage U_e	V	AC 230/400	-	-
Min. operating voltage	V	AC 12	-	-
Rated short-circuit capacity I_{cn}	kA	Char. B, C, D: 230/400 V (10 … 80A) = 25 kA	-	-
Reference temperature for tripping characteristics	°C	30°C (Char. B, C, D)		
Electrical and Mechanical Endurance	ops	10...32 A: 10000 electrical / 10000 mechanical 40...80 A: 6000 electrical / 10000 mechanical	-	-
Service short-circuit capacity I_{cs}	kA	Char. B, C, D: 230/400 V (10 … 80 A) = 12.5 kA	-	-
Data acc. to IEC/EN 60947-2				
Rated operational voltage U_e	V	AC 400/690 DC 125 (1-pole) DC 250 (2-pole) DC 375 (3-pole) DC 500 (4-pole)	AC 690	DC 250 (1-pole) DC 500 (2-pole) DC 750 (3-pole) DC 750 (4-pole) (63 … 125 A) DC 1000 (4-pole) (up to 50 A)
Min. operating voltage	V	AC 12	AC 12	–
Rated ultimate short-circuit capacity I_{cu}	kA	AC 240/415 V = 50 kA AC 254/440 V = 30 kA AC 289/500 V (up to 80 A)= 15 kA AC 289/500 V (100 ... 125 A)= 10 kA AC 400/690 V (up to 80 A) = 6 kA AC 400/690 V (100 … 125 A) = 4.5 kA DC 125 V (1-pole) = 30 kA DC 250 V (2-pole) = 30 kA DC 375 V (3-pole) = 30 kA DC 500 V (4-pole) = 30 kA	AC 240/415 V = 50 kA AC 254/440 V = 30 kA AC 400/690 V = 6 kA DC 375 V = 30 kA	DC 250 V (1-pole) =50 kA DC 500 V (2-pole) =50 kA DC 750 V (3-pole) =50 kA DC 750 V (4-pole) (63...125A) =50 kA DC 1000V (4-pole)(up to 50A) = 50 kA
Rated service short-circuit capacity I_{cs}	kA	AC 240/415 V = 40 kA AC 254/440 V (up to 80 A) = 22.5 kA AC 254/440 V (100 … 125 A) = 15 kA AC 289/500 V (up to 80 A) = 11 kA AC 289/500 V (100 … 125 A) = 5 kA AC 400/690 V (up to 80 A) = 4 kA AC 400/690 V (100 … 125 A) = 3 kA DC 125 V (1-pole) = 30 kA DC 250 V (2-pole) = 30 kA DC 375 V (3-pole) = 30 kA DC 500 V (4-pole) = 30 kA	DC 375 V = 30 kA	DC 250 V (1-pole) =50 kA DC 500 V (2-pole) =50 kA DC 750 V (3-pole) =50 kA DC 750 V (4-pole) (63...125A) =50 kA DC 1000V (4-pole)(up to 50A) = 50 kA
Reference temperature for tripping characteristics	°C	B, C, D: 30°C K: 40°C	only magnetic release	UCB: 30°C UCK: 40°C
Electrical and Mechanical Endurance	ops.	0.5...32 A: 10000 electrical / 10000 mechanical 40...100 A: 6000 electrical / 10000 mechanical 125 A: 4000 electrical / 8000 mechanical	10 … 32 A: 10000 electrical/ 10000 mechanical 40 ... 80 A: 6000 electrical/ 4000 mechanical	0.5...100 A: 1500 electrical / 10000 mechanical 125 A: 1000 electrical / 8000 mechanical
Data acc. to UL 1077/ C22.2 No 235, Supplementary Protector				
Alternating current: int. cap.		1 240: 30 (0.5…63A) 277: 14 (0.5…63A) 347: 6 (0.5…63A)		
		2,3,4 240: 30 (0.5...63A) 480 Y/277: 14 (0.5…63A) 600 Y/347: 6 (0.5…63A)		

MCBs

S800S series technical features

		S800S / S803S-KM / S800S-UC
Mechanical Data		
Housing		Material group I, RAL 7035
Toggle		black, lockable
Classification acc. to NF F 126-101, NF F 16-102		I3, F2
Protection degree acc. to EN 60529		IP20; IP40(actuating end only)
Shock resistance acc. to IEC/EN 60068-2-31		IEC 61373 Cat. 1 Class B, 5g / 30 ms acc. to IEC 60068-27 Test Ea
Vibration resistance acc. to IEC/EN 60068-2-6		IEC 60068-2-6 Test Fc; 2 - 13.2Hz /1 mm 13.2 - 100Hz / 0.7g with load 100% x I_e
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30	°C/RH	12 + 12 cycle with 55 °C/90–96 % and 25 °C/95–100 %
Environmental conditions (dry heat) acc. to IEC/EN 60068-2-2 Test B	°C/RH	16 hours 55 °C / 2 hours 70 °C with damp heat 55 %
Ambient temperature	°C	–25 … +60
Storage temperature	°C	–40 … +70
Installation		
Terminal		Failsafe cage or ringlug terminal
Connections (top/bottom) – C_u only	mm^2 AWG (S800S only)	1 … 50 stranded 1 … 70 flexible 10 - 30 A: 14 AWG – 2 AWG 40 - 100 A: 14 AWG – 2 AWG
Tightening torque	Nm	3.5
	in-lbs.	31
Screwdriver		POZI 2
Mounting		EN 60715
Mounting position		any
Supply		any
Dimensions and weight		
Pole dimensions (H x L x W)	mm	82.5 x 95 x 26.5
Pole weight	g	ca. 240

	S800-AUX	S800-AUX/ALT	S800-RSU-H	S800W-RSU	S800S-SCL-SR	S800W-SCL-SR	S800HV-SCL-SR	S800-SOR	S800-UVR	DDA800
Combination with aux. Elements	yes	yes	yes	yes	yes	yes	no	yes	yes	yes

MCBs

S800N series technical features

		S800N
General Data		
Tripping characteristics		B, C, D
Standards		IEC/EN 60947-2, EN 60898-1
Poles		1 … 4
Rated current I_e	A	6 … 125
Rated frequency f	Hz	50/60
Rated insulation voltage U_i acc. to IEC/EN 60664-1	V	AC 690
Rated impulse withstand voltage $U_{imp.}$ (1.2/50 µs)	kV	8
Overvoltage category		IV
Pollution degree		3
Suitability for isolation		yes
Data acc. to IEC/EN 60898-1		
Rated operational voltage U_e	V	AC 230/400
Min. operating voltage	V	AC 12
Rated short-circuit capacity I_{cn}	kA	AC 230/400 V (10 … 80 A) = 20 kA
Reference temperature for tripping characteristics	°C	30°C (Char. B, C, D)
Electrical and Mechanical Endurance	ops	10…32 A: 10000 electrical / 10000 mechanical 40…80 A: 6000 electrical / 10000 mechanical
Service short-circuit capacity I_{cs}	kA	230/400 V (10 … 80 A) = 10 kA
Data acc. to IEC/EN 60947-2		
Rated operational voltage U_e	V	AC 400/690 DC 125 (1-pole) DC 250 (2-pole) DC 375 (3-pole) DC 500 (4-pole)
Min. operating voltage	V	AC 12
Rated ultimate short-circuit capacity I_{cu}	kA	AC 240/415 V = 36 kA AC 254/440 V = 20 kA AC 289/500 V = 10 kA AC 400/690 V = 4.5 kA DC 125 V (1-pole) = 20 kA DC 250 V (2-pole) = 20 kA DC 375 V (3-pole) = 20 kA DC 500 V (4-pole) = 20 kA
Rated service short-circuit capacity I_{cs}	kA	AC 240/415 V = 30 kA AC 254/440 V (up to 63 A) = 15 kA AC 254/440 V (80 … 125 A) = 10 kA AC 289/500 V (up to 80 A) = 8 kA AC 289/500 V (100 … 125) = 5 kA AC 400/690 V = 3 kA DC 125 V (1-pole) = 20 kA DC 250 V (2-pole) = 20 kA DC 375 V (3-pole) = 20 kA DC 500 V (4-pole) = 20 kA
Reference temperature for tripping characteristics	°C	30 °C
Electrical and Mechanical Endurance	ops.	6 … 32 A: 10000 electrical/10000 mechanical 40 … 100 A: 6000 electrical/10000 mechanical 125 A: 4000 electrical/8000 mechanical
Mechanical Data		
Housing		Material group I, RAL 7035
Toggle		black, lockable
Classification acc. To NF F 126-101, NF F 16-102		I3, F2
Protection degree acc. to EN 60529		IP20; IP40 (actuating end only)
Shock resistance acc. to IEC/EN 60068-2-30		IEC 61373 Cat. 1 Class B, 5g / 30ms acc. To IEC 60068-27 Test Ea
Vibration resistance acc. to IEC/EN 60068-2-6		IEC 60068-2-6 Test Fc; 2–13.2 Hz/1 mm 13.2–100 Hz/0.7 g with load 100% x I_e
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30	°C/RH	12 + 12 cycle with 55 °C/90–96 % and 25 °C/95–100 %
Environmental conditions (dry heat) acc. to IEC/EN 60068-2-2 Test B	°C/RH	16 hours 55 °C/2 hours 70 °C with damp heat 55 %
Ambient temperature	°C	– 25 … +60
Storage temperature	°C	– 40 … +70

MCBs

S800N series technical features

		S800N
Installation		
Terminal		Failsafe cage or ringlug terminal
Connections (top/bottom) – C_u only	mm^2	1 … 50 stranded 1 … 70 flexible
Tightening torque	Nm	3.5
	in-lbs.	31
Screwdriver		POZI 2
Mounting		EN 60715
Mounting position		any
Supply		any
Dimensions and weight		
Pole dimensions (H x L x W)	mm	82.5 x 95 x 26.5
Pole weight	g	ca. 240

	S800-AUX	S800-AUX/ALT	S800-RSU-H	S800W-RSU	S800S-SCL-SR	S800W-SCL-SR	S800HV-SCL-SR	S800-SOR	S800-UVR	DDA800
Combination with aux. Elements	yes	yes	yes	yes	no	no	no	yes	yes	yes

MCBs

S800C series technical features

		S800C
General Data		
Tripping characteristics		B, C, D, K
Standards		IEC/EN 60947-2,EN 60898-1, UL 1077
Poles		1 ... 4
Rated current I_e	A	10 ... 125
Rated frequency f	Hz	50/60
Rated insulation voltage U_i acc. to IEC/EN 60664-1	V	AC 500
Rated impulse withstand voltage $U_{imp.}$ (1.2/50µs)	kV	8
Overvoltage category		IV
Pollution degree		3
Suitability for isolation		yes
Data acc. to IEC/EN 60898-1		
Rated operational voltage U_e	V	AC 230/400
Min. operating voltage	V	AC 12
Rated short-circuit capacity I_{cn}	kA	15kA
Reference temperature for tripping characteristics	°C	30°C (Char. B, C, D)
Electrical and Mechanical Endurance	ops	10 ... 32A: 10000 electrical/10000 mechanical 40 ... 100A: 6000 electrical/10000 mechanical 125A: 4000 electrical/8000 mechanical
Service short-circuit capacity I_{cs}	kA	Char. B, C, D: 230/400V = 7.5kA
Data acc. to IEC/EN 60947-2		
Rated operational voltage U_e	V	AC 240/415 DC 125 (1-pole) DC 250 (2-pole) DC 375 (3-pole) DC 500 (4-pole)
Min. operating voltage	V	AC 12
Rated ultimate short-circuit capacity I_{cu}	kA	AC 240/415V = 25kA AC 254/440V = 15kA DC 125V (1-pole) = 10kA DC 250V (2-pole) = 10kA DC 375V (3-pole) = 10kA DC 500V (4-pole) = 10kA
Rated service short-circuit capacity I_{cs}	kA	AC 240/415V = 18kA AC 254/440V = 10kA DC 125V (1-pole) = 10kA DC 250V (2-pole) = 10kA DC 375V (3-pole) = 10kA DC 500V (4-pole) = 10kA
Reference temperature for tripping characteristics	°C	B, C, D: 30°C K: 40 °C
Electrical and Mechanical Endurance	ops.	6 ... 32A: 10000 electrical/10000 mechanical 40 ... 100A: 6000 electrical/10000 mechanical 125 A: 4000 electrical/8000 mechanical
Mechanical Data		
Housing		Material group I, RAL 7035
Toggle		black, lockable
Classification acc. To NF F 126-101, NF F 16-102		I3, F2
Protection degree acc. to EN 60529		IP20; IP40 (actuating end only)
Shock resistance acc. to IEC/EN 60068-2-30		IEC 61373 Cat. 1 Class B, 5g / 30ms acc. To IEC 60068-27 Test Ea
Vibration resistance acc. to IEC/EN 60068-2-6		IEC 60068-2-6 Test Fc; 2–13.2Hz/1mm 13.2–100Hz/0.7g with load 100% x I_e
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30	°C/RH	12 + 12 cycle with 55°C/90–96% and 25°C/95–100%
Environmental conditions (dry heat) acc. to IEC/EN 60068-2-2 Test B	°C/RH	16 hours 55°C/2 hours 70°C with damp heat 55%
Ambient temperature	°C	–25 ... +60
Storage temperature	°C	–40 ... +70
Data acc. to UL 1077/ C22.2 No 235, Supplementary Protector		
Alternating current: int. cap.		1 240: 20(≤ 100A) 277: 10 (≤ 100A)
		2,3,4 240: 20 (≤ 100A) 480 Y/277: 10 (≤ 100A)
Direct current: int. cap.		1 125: 10 (≤ 100A)
		2, 3, 4 250: 10 (2P, ≤ 100A) 375: 10 (3P, ≤ 100A) 500: 10 (4P, ≤ 100A)

MCBs

S800C series technical features

		S800C
Installation		
Terminal		Failsafe cage or ringlug terminal
Connections (top/bottom) – C_u only	mm^2	1 … 50 stranded 1 … 70 flexible
	AWG	10 - 30 A: 14 AWG – 2 AWG 40 - 100 A: 14 AWG – 2 AWG
Tightening torque	Nm	3.5
	in-lbs.	31
Screwdriver		POZI 2
Mounting		EN 60715
Mounting position		any
Supply		any
Dimensions and weight		
Pole dimensions (H x L x W)	mm	82.5 x 95 x 26.5
Pole weight	g	ca. 240

	S800-AUX	S800-AUX/ALT	S800-RSU-H	S800W-RSU	S800S-SCL-SR	S800W-SCL-SR	S800HV-SCL-SR	S800-SOR	S800-UVR	DDA800
Combination with aux. Elements	yes	yes	yes	yes	no	no	no	yes	yes	yes

MCBs

S800B series technical features

		S800B
General Data		
Tripping characteristics		B, C, D, K
Standards		IEC/EN 60947-2,EN 60898-1
Poles		1 … 4
Rated current I_e	A	32 … 125
Rated frequency f	Hz	50/60
Rated insulation voltage U_i acc. to IEC/EN 60664-1	V	AC 500
Rated impulse withstand voltage $U_{imp.}$ (1.2/50µs)	kV	6
Overvoltage category		III
Pollution degree		3
Suitability for isolation		yes
Data acc. to IEC/EN 60898-1		
Rated operational voltage U_e	V	AC 230/400
Min. operating voltage	V	AC 12
Rated short-circuit capacity I_{cn}	kA	AC 230/400 = 10 kA
Reference temperature for tripping characteristics	°C	B, C, D: 30°C
Electrical and Mechanical Endurance	ops.	4000
Service short-circuit capacity I_{cs}	kA	AC 230/400 V = 7.5 kA
Data acc. to IEC/EN 60947-2		
Rated operational voltage U_e	V	AC 230/400
Min. operating voltage	V	AC 12
Rated ultimate short-circuit capacity I_{cu}	kA	AC 230/400 V = 16 kA DC 75 V (1-pole) = 10 kA DC 150 V (2-pole) = 10 kA DC 225 V (3-pole = 10 kA DC 300 V (4-pole) = 10 kA
Rated service short-circuit capacity I_{cs}	kA	10 kA
Reference temperature for tripping characteristics	°C	B, C, D: 30°C K: 40 °C
Electrical and Mechanical Endurance	ops.	32...100 A: 1500 electrical / 10000 mechanical 125 A: 1000 electrical / 8000 mechanical
Mechanical Data		
Housing		Material group I, RAL 7035
Toggle		black, lockable
Classification acc. To NF F 126-101, NF F 16-102		I3, F2
Protection degree acc. to EN 60529		IP20; IP40 (actuating end only)
Shock resistance acc. to IEC/EN 60068-2-30		-
Vibration resistance acc. to IEC/EN 60068-2-6		-
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30	°C/RH	-
Environmental conditions (dry heat) acc. to IEC/EN 60068-2-2 Test B	°C/RH	-
Ambient temperature	°C	–25 … +60
Storage temperature	°C	–40 … +70
Installation		
Terminal		Failsafe cage or ringlug terminal
Connections (top/bottom) – C_u only	mm^2	1 … 50 stranded 1 … 70 flexible
Tightening torque	Nm	3.5
	in-lbs.	31
Screwdriver		POZI 2
Mounting		EN 60715
Mounting position		any
Supply		any
Dimensions and weight		
Pole dimensions (H x L x W)	mm	82.5 x 95 x 26.5
Pole weight	g	ca. 240

	S800-AUX	S800-AUX/ALT	S800-RSU-H	S800W-RSU	S800S-SCL-SR	S800W-SCL-SR	S800HV-SCL-SR	S800-SOR	S800-UVR	DDA800
Combination with aux. Elements	yes	yes	yes	yes	no	no	no	yes	yes	yes

MCBs

S800HV series technical features

		S800HV
General Data		
Tripping characteristics		C, K
Standards		IEC/EN 60947-2, UL 1077
Poles		1 … 3
Rated frequency f	Hz	50/60
Overvoltage category		III
Pollution degree		2
Suitability for isolation		yes
Data acc. to IEC/EN 60947-2		
Rated operational voltage U_e	V	AC 580/1000
Min. operating voltage	V	AC 12
Rated operational current I_n	A	0.5 ... 125
Rated ultimate short-circuit capacity I_{cu}	kA	1.5 (0.5...5 A) 4 (6 … 63 A) 3 (80 … 125 A)
Rated service short-circuit capacity I_{cs}	kA	1.5 (0.5 ... 5 A) 2.5 (6 … 63 A) 2 (80 … 125 A)
Reference temperature for tripping characteristics	°C	40 °C
Electrical and Mechanical Endurance	ops.	0.5 ... 100 A: 1500 electrical/10000 mechanical 125 A: 1000 electrical/8000 mechanical
Data according to UL 1077/ C22.2 No 235, Supplementary Protector		
Alternating current		600 Y/347: 15 (3P, 10…32A)*
Mechanical Data		
Housing		Material group I, RAL 7035
Toggle		black, lockable
Protection degree acc. to EN 60529		IP20; IP40 (actuating end only)
Classification acc. To NF F 126-101, NF F 16-102		I3, F2
Classification acc. to IEC 61373 (shock and vibration)		Cat. 1, Class B
Shock resistance acc. to IEC/EN 60068-2-27		Test Ea: 5 g / 30 ms
Vibration resistance acc. to IEC/EN 60068-2-6		Test Fc: 2–13.2 Hz/1 mm 13.2–100 Hz/0.7 g with load 100 % x I_e
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30	°C/RH	12 + 12 cycle with 55 °C/90–96 % and 25 °C/95–100 %
Environmental conditions (dry heat) acc. to IEC/EN 60068-2-2 Test B	°C/RH	16 hours 55°C / 2 hours 70°C / 55% RH
Ambient temperature	°C	–25 … +60
Storage temperature	°C	–40 … +70
Installation		
Terminal		Failsafe cage terminal
Connections (top/bottom) – C_u only	mm^2	1 … 50 stranded 1 … 70 flexible
Tightening torque	Nm	3.5
Screwdriver		POZI 2
Mounting		EN 60715
Mounting position		any
Supply		any
Dimensions and weight		
Pole dimensions (H x L x W)	mm	142 x 82.5 x 26.5
Pole weight	kg	0.27

* 3P, 10 ... 32 A - only valid with XT2L 125 TMF 35-400

	S800-AUX	S800-AUX/ALT	S800-RSU-H	S800W-RSU	S800S-SCL-SR	S800W-SCL-SR	S800HV-SCL-SR	S800-SOR	S800-UVR	DDA800
Combination with aux. Elements	yes	yes	yes	yes	no	no	yes	yes	yes	no

High performance MCBs

S800S series with cage terminal, B characteristic

S800S-B characteristic

Function: protection and control of the circuits against overloads and short-circuits when a high breaking capacity is required; protection for people and big length cables in TN and IT systems; very useful when selectivity is needed vs an MCCB or back-up vs other MCBs wired downstream.

Applications: commercial and industrial.

Standard: IEC/EN 60898, IEC/EN 60947-2, UL 1077, supplementary protector

Icn=25kA (10 ... 80A)

Icu=50 kA



801S



802S

Number of poles	Rated current [A]	GTIN EAN 7612271	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
1	0.5	498979	S801S-B0,5	2CCF019841R0001	0.24	1
	1	498986	S801S-B1	2CCF019842R0001	0.24	1
	1.6	498993	S801S-B1,6	2CCF019843R0001	0.24	1
	2	499105	S801S-B2	2CCF019844R0001	0.24	1
	2.5	499112	S801S-B2,5	2CCF019845R0001	0.24	1
	3	499129	S801S-B3	2CCF019846R0001	0.24	1
	4	499136	S801S-B4	2CCF019847R0001	0.24	1
	5	499143	S801S-B5	2CCF019848R0001	0.24	1
	6	408107	S801S-B6	2CCS861001R0065	0.24	1
	8	411329	S801S-B8	2CCS861001R0085	0.24	1
	10	200008	S801S-B10	2CCS861001R0105	0.24	1
	13	200015	S801S-B13	2CCS861001R0135	0.24	1
	16	200022	S801S-B16	2CCS861001R0165	0.24	1
	20	200039	S801S-B20	2CCS861001R0205	0.24	1
	25	200046	S801S-B25	2CCS861001R0255	0.24	1
	32	200053	S801S-B32	2CCS861001R0325	0.24	1
	40	200060	S801S-B40	2CCS861001R0405	0.24	1
	50	200077	S801S-B50	2CCS861001R0505	0.24	1
	63	200084	S801S-B63	2CCS861001R0635	0.24	1
	80	200091	S801S-B80	2CCS861001R0805	0.24	1
	100	200107	S801S-B100	2CCS861001R0825	0.24	1
	125	200114	S801S-B125	2CCS861001R0845	0.24	1
2	0.5	499310	S802S-B0,5	2CCF019865R0001	0.49	1
	1	499327	S802S-B1	2CCF019866R0001	0.49	1
	1.6	499334	S802S-B1,6	2CCF019867R0001	0.49	1
	2	499341	S802S-B2	2CCF019868R0001	0.49	1
	2.5	499358	S802S-B2,5	2CCF019869R0001	0.49	1
	3	499365	S802S-B3	2CCF019870R0001	0.49	1
	4	499372	S802S-B4	2CCF019871R0001	0.49	1
	5	499389	S802S-B5	2CCF019872R0001	0.49	1
	6	408114	S802S-B6	2CCS862001R0065	0.49	1
	8	411336	S802S-B8	2CCS862001R0085	0.49	1
	10	200121	S802S-B10	2CCS862001R0105	0.49	1
	13	200138	S802S-B13	2CCS862001R0135	0.49	1
	16	200145	S802S-B16	2CCS862001R0165	0.49	1
	20	200152	S802S-B20	2CCS862001R0205	0.49	1
	25	200169	S802S-B25	2CCS862001R0255	0.49	1
	32	200176	S802S-B32	2CCS862001R0325	0.49	1
	40	200183	S802S-B40	2CCS862001R0405	0.49	1
	50	200190	S802S-B50	2CCS862001R0505	0.49	1
	63	200206	S802S-B63	2CCS862001R0635	0.49	1
	80	200213	S802S-B80	2CCS862001R0805	0.49	1
	100	200220	S802S-B100	2CCS862001R0825	0.49	1
	125	200237	S802S-B125	2CCS862001R0845	0.49	1

High performance MCBs

S800S series with cage terminal, B characteristic



803S



804S

Number of poles	Rated current [A]	GTIN EAN 7612271	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
3	0.5	499556	S803S-B0,5	2CCF019889R0001	0.74	1
	1	499563	S803S-B1	2CCF019890R0001	0.74	1
	1.6	499570	S803S-B1,6	2CCF019891R0001	0.74	1
	2	499587	S803S-B2	2CCF019892R0001	0.74	1
	2.5	499594	S803S-B2,5	2CCF019893R0001	0.74	1
	3	499600	S803S-B3	2CCF019894R0001	0.74	1
	4	499617	S803S-B4	2CCF019895R0001	0.74	1
	5	499624	S803S-B5	2CCF019896R0001	0.74	1
	6	408121	S803S-B6	2CCS863001R0065	0.74	1
	8	411343	S803S-B8	2CCS863001R0085	0.74	1
	10	200244	S803S-B10	2CCS863001R0105	0.74	1
	13	200251	S803S-B13	2CCS863001R0135	0.74	1
	16	200268	S803S-B16	2CCS863001R0165	0.74	1
	20	200275	S803S-B20	2CCS863001R0205	0.74	1
	25	200282	S803S-B25	2CCS863001R0255	0.74	1
	32	200299	S803S-B32	2CCS863001R0325	0.74	1
	40	200305	S803S-B40	2CCS863001R0405	0.74	1
	50	200312	S803S-B50	2CCS863001R0505	0.74	1
	63	200329	S803S-B63	2CCS863001R0635	0.74	1
	80	200336	S803S-B80	2CCS863001R0805	0.74	1
	100	200343	S803S-B100	2CCS863001R0825	0.74	1
	125	200350	S803S-B125	2CCS863001R0845	0.74	1
4	0.5	499792	S804S-B0,5	2CCF019913R0001	0.98	1
	1	499808	S804S-B1	2CCF019914R0001	0.98	1
	1.6	499815	S804S-B1,6	2CCF019915R0001	0.98	1
	2	499822	S804S-B2	2CCF019916R0001	0.98	1
	2.5	499839	S804S-B2,5	2CCF019917R0001	0.98	1
	3	499846	S804S-B3	2CCF019918R0001	0.98	1
	4	499853	S804S-B4	2CCF019919R0001	0.98	1
	5	499860	S804S-B5	2CCF019920R0001	0.98	1
	6	408138	S804S-B6	2CCS864001R0065	0.98	1
	8	411350	S804S-B8	2CCS864001R0085	0.98	1
	10	200367	S804S-B10	2CCS864001R0105	0.98	1
	13	200374	S804S-B13	2CCS864001R0135	0.98	1
	16	200381	S804S-B16	2CCS864001R0165	0.98	1
	20	200398	S804S-B20	2CCS864001R0205	0.98	1
	25	200404	S804S-B25	2CCS864001R0255	0.98	1
	32	200411	S804S-B32	2CCS864001R0325	0.98	1
	40	200428	S804S-B40	2CCS864001R0405	0.98	1
	50	200435	S804S-B50	2CCS864001R0505	0.98	1
	63	200442	S804S-B63	2CCS864001R0635	0.98	1
	80	200459	S804S-B80	2CCS864001R0805	0.98	1
	100	200466	S804S-B100	2CCS864001R0825	0.98	1
	125	200473	S804S-B125	2CCS864001R0845	0.98	1

High performance MCBs

S800S series with ring terminal connection, B characteristic



S801S



S802S

S800S-B characteristic

Function: protection and control of the circuits against overloads and short-circuits when a high breaking capacity is required; protection for people and big length cables in TN and IT systems; very useful when selectivity is needed vs an MCCB or back-up vs other MCBs wired downstream.

Applications: commercial and industrial.

Standard: IEC/EN 60898, IEC/EN 60947-2, UL 1077, supplementary protector

Icn=25kA (10 ... 80A)

Icu=50 kA

Number of poles	Rated current In A	Bbn 7612271 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	6	408268	S801S-B6-R	2CCS861002R0065		0.245	1
	8	411480	S801S-B8-R	2CCS861002R0085		0.245	1
	10	209636	S801S-B10-R	2CCS861002R0105		0.245	1
	13	209643	S801S-B13-R	2CCS861002R0135		0.245	1
	16	209650	S801S-B16-R	2CCS861002R0165		0.245	1
	20	209667	S801S-B20-R	2CCS861002R0205		0.245	1
	25	209674	S801S-B25-R	2CCS861002R0255		0.245	1
	32	209681	S801S-B32-R	2CCS861002R0325		0.245	1
	40	206826	S801S-B40-R	2CCS861002R0405		0.245	1
	50	206833	S801S-B50-R	2CCS861002R0505		0.245	1
	63	206840	S801S-B63-R	2CCS861002R0635		0.245	1
	80	206857	S801S-B80-R	2CCS861002R0805		0.245	1
	100	206864	S801S-B100-R	2CCS861002R0825		0.245	1
	125	206871	S801S-B125-R	2CCS861002R0845		0.245	1
2	6	408275	S802S-B6-R	2CCS862002R0065		0.49	1
	8	411497	S802S-B8-R	2CCS862002R0085		0.49	1
	10	209698	S802S-B10-R	2CCS862002R0105		0.49	1
	13	209704	S802S-B13-R	2CCS862002R0135		0.49	1
	16	209711	S802S-B16-R	2CCS862002R0165		0.49	1
	20	209728	S802S-B20-R	2CCS862002R0205		0.49	1
	25	209735	S802S-B25-R	2CCS862002R0255		0.49	1
	32	209742	S802S-B32-R	2CCS862002R0325		0.49	1
	40	206888	S802S-B40-R	2CCS862002R0405		0.49	1
	50	206895	S802S-B50-R	2CCS862002R0505		0.49	1
	63	206901	S802S-B63-R	2CCS862002R0635		0.49	1
	80	206918	S802S-B80-R	2CCS862002R0805		0.49	1
	100	206925	S802S-B100-R	2CCS862002R0825		0.49	1
	125	206932	S802S-B125-R	2CCS862002R0845		0.49	1

High performance MCBs

S800S series with ring terminal connection, B characteristic



S803S



S804S

Number of poles	Rated current In A	Bbn 7612271 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	6	408282	S803S-B6-R	2CCS863002R0065		0.735	1
	8	411503	S803S-B8-R	2CCS863002R0085		0.735	1
	10	209759	S803S-B10-R	2CCS863002R0105		0.735	1
	13	209766	S803S-B13-R	2CCS863002R0135		0.735	1
	16	209773	S803S-B16-R	2CCS863002R0165		0.735	1
	20	209780	S803S-B20-R	2CCS863002R0205		0.735	1
	25	209797	S803S-B25-R	2CCS863002R0255		0.735	1
	32	209803	S803S-B32-R	2CCS863002R0325		0.735	1
	40	206949	S803S-B40-R	2CCS863002R0405		0.735	1
	50	206956	S803S-B50-R	2CCS863002R0505		0.735	1
	63	206963	S803S-B63-R	2CCS863002R0635		0.735	1
	80	206970	S803S-B80-R	2CCS863002R0805		0.735	1
	100	206987	S803S-B100-R	2CCS863002R0825		0.735	1
	125	206994	S803S-B125-R	2CCS863002R0845		0.735	1
4	6	408299	S804S-B6-R	2CCS864002R0065		0.98	1
	8	411510	S804S-B8-R	2CCS864002R0085		0.98	1
	10	209810	S804S-B10-R	2CCS864002R0105		0.98	1
	13	209827	S804S-B13-R	2CCS864002R0135		0.98	1
	16	209834	S804S-B16-R	2CCS864002R0165		0.98	1
	20	209841	S804S-B20-R	2CCS864002R0205		0.98	1
	25	209858	S804S-B25-R	2CCS864002R0255		0.98	1
	32	209865	S804S-B32-R	2CCS864002R0325		0.98	1
	40	207007	S804S-B40-R	2CCS864002R0405		0.98	1
	50	207014	S804S-B50-R	2CCS864002R0505		0.98	1
	63	207021	S804S-B63-R	2CCS864002R0635		0.98	1
	80	207038	S804S-B80-R	2CCS864002R0805		0.98	1
	100	207045	S804S-B100-R	2CCS864002R0825		0.98	1
	125	207052	S804S-B125-R	2CCS864002R0845		0.98	1

High performance MCBs

S800S series with cage terminal, C characteristic

S800S-C characteristic

Function: protection and control of the circuits against overloads and short-circuits when a high breaking capacity is required; protection for resistive and inductive loads with low inrush current; very useful when selectivity is needed vs an MCCB or back-up vs other MCBs wired downstream.

Applications: commercial and industrial.

Standard: IEC/EN 60898, IEC/EN 60947-2, UL 1077, supplementary protector

Icn=25kA (10 ... 80A)

Icu=50 kA



S801S



802S

Number of poles	Rated current [A]	GTIN EAN 7612271	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
1	0.5	499150	S801S-C0,5	2CCF019849R0001	0.24	1
	1	499167	S801S-C1	2CCF019850R0001	0.24	1
	1.6	499174	S801S-C1,6	2CCF019851R0001	0.24	1
	2	499181	S801S-C2	2CCF019852R0001	0.24	1
	2.5	499198	S801S-C2,5	2CCF019853R0001	0.24	1
	3	499204	S801S-C3	2CCF019854R0001	0.24	1
	4	499211	S801S-C4	2CCF019855R0001	0.24	1
	5	499228	S801S-C5	2CCF019856R0001	0.24	1
	6	408145	S801S-C6	2CCS861001R0064	0.24	1
	8	411367	S801S-C8	2CCS861001R0084	0.24	1
	10	200480	S801S-C10	2CCS861001R0104	0.24	1
	13	200497	S801S-C13	2CCS861001R0134	0.24	1
	16	200503	S801S-C16	2CCS861001R0164	0.24	1
	20	200510	S801S-C20	2CCS861001R0204	0.24	1
	25	200527	S801S-C25	2CCS861001R0254	0.24	1
	32	200534	S801S-C32	2CCS861001R0324	0.24	1
	40	200541	S801S-C40	2CCS861001R0404	0.24	1
	50	200558	S801S-C50	2CCS861001R0504	0.24	1
	63	200565	S801S-C63	2CCS861001R0634	0.24	1
	80	200572	S801S-C80	2CCS861001R0804	0.24	1
	100	200589	S801S-C100	2CCS861001R0824	0.24	1
	125	200596	S801S-C125	2CCS861001R0844	0.24	1
2	0.5	499396	S802S-C0,5	2CCF019873R0001	0.49	1
	1	499402	S802S-C1	2CCF019874R0001	0.49	1
	1.6	499419	S802S-C1,6	2CCF019875R0001	0.49	1
	2	499426	S802S-C2	2CCF019876R0001	0.49	1
	2.5	499433	S802S-C2,5	2CCF019877R0001	0.49	1
	3	499440	S802S-C3	2CCF019878R0001	0.49	1
	4	499457	S802S-C4	2CCF019879R0001	0.49	1
	5	499464	S802S-C5	2CCF019880R0001	0.49	1
	6	408152	S802S-C6	2CCS862001R0064	0.49	1
	8	411374	S802S-C8	2CCS862001R0084	0.49	1
	10	200602	S802S-C10	2CCS862001R0104	0.49	1
	13	200619	S802S-C13	2CCS862001R0134	0.49	1
	16	200626	S802S-C16	2CCS862001R0164	0.49	1
	20	200633	S802S-C20	2CCS862001R0204	0.49	1
	25	200640	S802S-C25	2CCS862001R0254	0.49	1
	32	200657	S802S-C32	2CCS862001R0324	0.49	1
	40	200664	S802S-C40	2CCS862001R0404	0.49	1
	50	200671	S802S-C50	2CCS862001R0504	0.49	1
	63	200688	S802S-C63	2CCS862001R0634	0.49	1
	80	200695	S802S-C80	2CCS862001R0804	0.49	1
	100	200701	S802S-C100	2CCS862001R0824	0.49	1
	125	200718	S802S-C125	2CCS862001R0844	0.49	1

High performance MCBs

S800S series with cage terminal, C characteristic



803S



S804S

Number of poles	Rated current [A]	GTIN EAN 7612271	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
3	0.5	499631	S803S-C0,5	2CCF019897R0001	0.74	1
	1	499648	S803S-C1	2CCF019898R0001	0.74	1
	1.6	499655	S803S-C1,6	2CCF019899R0001	0.74	1
	2	499662	S803S-C2	2CCF019900R0001	0.74	1
	2.5	499679	S803S-C2,5	2CCF019901R0001	0.74	1
	3	499686	S803S-C3	2CCF019902R0001	0.74	1
	4	499693	S803S-C4	2CCF019903R0001	0.74	1
	5	499709	S803S-C5	2CCF019904R0001	0.74	1
	6	408169	S803S-C6	2CCS863001R0064	0.74	1
	8	411381	S803S-C8	2CCS863001R0084	0.74	1
	10	200725	S803S-C10	2CCS863001R0104	0.74	1
	13	200732	S803S-C13	2CCS863001R0134	0.74	1
	16	200749	S803S-C16	2CCS863001R0164	0.74	1
	20	200756	S803S-C20	2CCS863001R0204	0.74	1
	25	200763	S803S-C25	2CCS863001R0254	0.74	1
	32	200770	S803S-C32	2CCS863001R0324	0.74	1
	40	200787	S803S-C40	2CCS863001R0404	0.74	1
	50	200794	S803S-C50	2CCS863001R0504	0.74	1
	63	200800	S803S-C63	2CCS863001R0634	0.74	1
	80	200817	S803S-C80	2CCS863001R0804	0.74	1
	100	200824	S803S-C100	2CCS863001R0824	0.74	1
	125	200831	S803S-C125	2CCS863001R0844	0.74	1
4	0.5	499877	S804S-C0,5	2CCF019921R0001	0.98	1
	1	499884	S804S-C1	2CCF019922R0001	0.98	1
	1.6	499891	S804S-C1,6	2CCF019923R0001	0.98	1
	2	499907	S804S-C2	2CCF019924R0001	0.98	1
	2.5	499914	S804S-C2,5	2CCF019925R0001	0.98	1
	3	499921	S804S-C3	2CCF019926R0001	0.98	1
	4	499938	S804S-C4	2CCF019927R0001	0.98	1
	5	499945	S804S-C5	2CCF019928R0001	0.98	1
	6	408176	S804S-C6	2CCS864001R0064	0.98	1
	8	411398	S804S-C8	2CCS864001R0084	0.98	1
	10	200848	S804S-C10	2CCS864001R0104	0.98	1
	13	200855	S804S-C13	2CCS864001R0134	0.98	1
	16	200862	S804S-C16	2CCS864001R0164	0.98	1
	20	200879	S804S-C20	2CCS864001R0204	0.98	1
	25	200886	S804S-C25	2CCS864001R0254	0.98	1
	32	200893	S804S-C32	2CCS864001R0324	0.98	1
	40	200909	S804S-C40	2CCS864001R0404	0.98	1
	50	200916	S804S-C50	2CCS864001R0504	0.98	1
	63	200923	S804S-C63	2CCS864001R0634	0.98	1
	80	200930	S804S-C80	2CCS864001R0804	0.98	1
	100	200947	S804S-C100	2CCS864001R0824	0.98	1
	125	200954	S804S-C125	2CCS864001R0844	0.98	1

High performance MCBs

S800S series with ring terminal connection, C characteristic



S801S



S802S

S800S-C characteristic

Function: protection and control of the circuits against overloads and short-circuits when a high breaking capacity is required; protection for resistive and inductive loads with low inrush current; very useful when selectivity is needed vs an MCCB or back-up vs other MCBs wired downstream.

Applications: commercial and industrial.

Standard: IEC/EN 60947-2, IEC/EN 60898

Icn=25kA (10 ... 80A)

Icu=50 kA

Number of poles	Rated current In A	Bbn 7612271 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	6	408305	S801S-C6-R	2CCS861002R0064		0.245	1
	8	411527	S801S-C8-R	2CCS861002R0084		0.245	1
	10	209872	S801S-C10-R	2CCS861002R0104		0.245	1
	13	209889	S801S-C13-R	2CCS861002R0134		0.245	1
	16	209896	S801S-C16-R	2CCS861002R0164		0.245	1
	20	209902	S801S-C20-R	2CCS861002R0204		0.245	1
	25	209919	S801S-C25-R	2CCS861002R0254		0.245	1
	32	209926	S801S-C32-R	2CCS861002R0324		0.245	1
	40	207069	S801S-C40-R	2CCS861002R0404		0.245	1
	50	207076	S801S-C50-R	2CCS861002R0504		0.245	1
	63	207083	S801S-C63-R	2CCS861002R0634		0.245	1
	80	207090	S801S-C80-R	2CCS861002R0804		0.245	1
	100	207106	S801S-C100-R	2CCS861002R0824		0.245	1
	125	207113	S801S-C125-R	2CCS861002R0844		0.245	1
2	6	408312	S802S-C6-R	2CCS862002R0064		0.49	1
	8	411534	S802S-C8-R	2CCS862001R0084		0.49	1
	10	209933	S802S-C10-R	2CCS862002R0104		0.49	1
	13	209940	S802S-C13-R	2CCS862002R0134		0.49	1
	16	209957	S802S-C16-R	2CCS862002R0164		0.49	1
	20	209964	S802S-C20-R	2CCS862002R0204		0.49	1
	25	209971	S802S-C25-R	2CCS862002R0254		0.49	1
	32	209988	S802S-C32-R	2CCS862002R0324		0.49	1
	40	207120	S802S-C40-R	2CCS862002R0404		0.49	1
	50	207137	S802S-C50-R	2CCS862002R0504		0.49	1
	63	207144	S802S-C63-R	2CCS862002R0634		0.49	1
	80	207151	S802S-C80-R	2CCS862002R0804		0.49	1
	100	207168	S802S-C100-R	2CCS862002R0824		0.49	1
	125	207175	S802S-C125-R	2CCS862002R0844		0.49	1

High performance MCBs

S800S series with ring terminal connection, C characteristic



S803S



S804S

Number of poles	Rated current In A	Bbn 7612271 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	6	408329	S803S-C6-R	2CCS863002R0064		0.735	1
	8	411541	S803S-C8-R	2CCS863002R0084		0.735	1
	10	209995	S803S-C10-R	2CCS863002R0104		0.735	1
	13	210007	S803S-C13-R	2CCS863002R0134		0.735	1
	16	210014	S803S-C16-R	2CCS863002R0164		0.735	1
	20	210021	S803S-C20-R	2CCS863002R0204		0.735	1
	25	210038	S803S-C25-R	2CCS863002R0254		0.735	1
	32	210045	S803S-C32-R	2CCS863002R0324		0.735	1
	40	207182	S803S-C40-R	2CCS863002R0404		0.735	1
	50	207199	S803S-C50-R	2CCS863002R0504		0.735	1
	63	207205	S803S-C63-R	2CCS863002R0634		0.735	1
	80	207212	S803S-C80-R	2CCS863002R0804		0.735	1
	100	207229	S803S-C100-R	2CCS863002R0824		0.735	1
	125	207236	S803S-C125-R	2CCS863002R0844		0.735	1
4	6	408336	S804S-C6-R	2CCS864002R0064		0.98	1
	8	411558	S804S-C8-R	2CCS864002R0084		0.98	1
	10	210052	S804S-C10-R	2CCS864002R0104		0.98	1
	13	210069	S804S-C13-R	2CCS864002R0134		0.98	1
	16	210076	S804S-C16-R	2CCS864002R0164		0.98	1
	20	210083	S804S-C20-R	2CCS864002R0204		0.98	1
	25	210090	S804S-C25-R	2CCS864002R0254		0.98	1
	32	210106	S804S-C32-R	2CCS864002R0324		0.98	1
	40	207243	S804S-C40-R	2CCS864002R0404		0.98	1
	50	207250	S804S-C50-R	2CCS864002R0504		0.98	1
	63	207267	S804S-C63-R	2CCS864002R0634		0.98	1
	80	207274	S804S-C80-R	2CCS864002R0804		0.98	1
	100	207281	S804S-C100-R	2CCS864002R0824		0.98	1
	125	207298	S804S-C125-R	2CCS864002R0844		0.98	1

High performance MCBs

S800S series with cage terminal, D characteristic

S800S-D characteristic
Function: protection and control of the circuits against overloads and short-circuits when a high breaking capacity is required; protection for circuits which supply loads with high inrush current at the circuit closing (motors, LV / LV transformers, breakdown lamps); very useful when selectivity is needed vs an MCCB or back-up vs other MCBs wired downstream.
Applications: commercial and industrial.
Standard: IEC/EN 60898, IEC/EN 60947-2, UL 1077, supplementary protector
Icn=25kA (10 ... 80A)
Icu=50 kA



S801S



S802S

Number of poles	Rated current [A]	GTIN EAN 7612271	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
1	0.5	499235	S801S-D0,5	2CCF019857R0001	0.24	1
	1	499242	S801S-D1	2CCF019858R0001	0.24	1
	1.6	499259	S801S-D1,6	2CCF019859R0001	0.24	1
	2	499266	S801S-D2	2CCF019860R0001	0.24	1
	2.5	499273	S801S-D2,5	2CCF019861R0001	0.24	1
	3	499280	S801S-D3	2CCF019862R0001	0.24	1
	4	499297	S801S-D4	2CCF019863R0001	0.24	1
	5	499303	S801S-D5	2CCF019864R0001	0.24	1
	6	408183	S801S-D6	2CCS861001R0061	0.24	1
	8	411404	S801S-D8	2CCS861001R0081	0.24	1
	10	200961	S801S-D10	2CCS861001R0101	0.24	1
	13	200978	S801S-D13	2CCS861001R0131	0.24	1
	16	200985	S801S-D16	2CCS861001R0161	0.24	1
	20	200992	S801S-D20	2CCS861001R0201	0.24	1
	25	201005	S801S-D25	2CCS861001R0251	0.24	1
	32	201012	S801S-D32	2CCS861001R0321	0.24	1
	40	201029	S801S-D40	2CCS861001R0401	0.24	1
	50	201036	S801S-D50	2CCS861001R0501	0.24	1
	63	201043	S801S-D63	2CCS861001R0631	0.24	1
	80	201050	S801S-D80	2CCS861001R0801	0.24	1
	100	201067	S801S-D100	2CCS861001R0821	0.24	1
	125	201074	S801S-D125	2CCS861001R0841	0.24	1
2	0.5	499471	S802S-D0,5	2CCF019881R0001	0.49	1
	1	499488	S802S-D1	2CCF019882R0001	0.49	1
	1.6	499495	S802S-D1,6	2CCF019883R0001	0.49	1
	2	499501	S802S-D2	2CCF019884R0001	0.49	1
	2.5	499518	S802S-D2,5	2CCF019885R0001	0.49	1
	3	499525	S802S-D3	2CCF019886R0001	0.49	1
	4	499532	S802S-D4	2CCF019887R0001	0.49	1
	5	499549	S802S-D5	2CCF019888R0001	0.49	1
	6	408190	S802S-D6	2CCS862001R0061	0.49	1
	8	411411	S802S-D8	2CCS862001R0081	0.49	1
	10	201081	S802S-D10	2CCS862001R0101	0.49	1
	13	201098	S802S-D13	2CCS862001R0131	0.49	1
	16	201104	S802S-D16	2CCS862001R0161	0.49	1
	20	201111	S802S-D20	2CCS862001R0201	0.49	1
	25	201128	S802S-D25	2CCS862001R0251	0.49	1
	32	201135	S802S-D32	2CCS862001R0321	0.49	1
	40	201142	S802S-D40	2CCS862001R0401	0.49	1
	50	201159	S802S-D50	2CCS862001R0501	0.49	1
	63	201166	S802S-D63	2CCS862001R0631	0.49	1
	80	201173	S802S-D80	2CCS862001R0801	0.49	1
	100	201180	S802S-D100	2CCS862001R0821	0.49	1
	125	201197	S802S-D125	2CCS862001R0841	0.49	1

High performance MCBs

S800S series with cage terminal, D characteristic



S803S



S804S

Number of poles	Rated current [A]	GTIN EAN 7612271	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
3	0.5	499716	S803S-D0,5	2CCF019905R0001	0.74	1
	1	499723	S803S-D1	2CCF019906R0001	0.74	1
	1.6	499730	S803S-D1,6	2CCF019907R0001	0.74	1
	2	499747	S803S-D2	2CCF019908R0001	0.74	1
	2.5	499754	S803S-D2,5	2CCF019909R0001	0.74	1
	3	499761	S803S-D3	2CCF019910R0001	0.74	1
	4	499778	S803S-D4	2CCF019911R0001	0.74	1
	5	499785	S803S-D5	2CCF019912R0001	0.74	1
	6	408206	S803S-D6	2CCS863001R0061	0.74	1
	8	411428	S803S-D8	2CCS863001R0081	0.74	1
	10	201203	S803S-D10	2CCS863001R0101	0.74	1
	13	201210	S803S-D13	2CCS863001R0131	0.74	1
	16	201227	S803S-D16	2CCS863001R0161	0.74	1
	20	201234	S803S-D20	2CCS863001R0201	0.74	1
	25	201241	S803S-D25	2CCS863001R0251	0.74	1
	32	201258	S803S-D32	2CCS863001R0321	0.74	1
	40	201265	S803S-D40	2CCS863001R0401	0.74	1
	50	201272	S803S-D50	2CCS863001R0501	0.74	1
	63	201289	S803S-D63	2CCS863001R0631	0.74	1
	80	201296	S803S-D80	2CCS863001R0801	0.74	1
	100	201302	S803S-D100	2CCS863001R0821	0.74	1
	125	201319	S803S-D125	2CCS863001R0841	0.74	1
4	0.5	499952	S804S-D0,5	2CCF019929R0001	0.98	1
	1	499969	S804S-D1	2CCF019930R0001	0.98	1
	1.6	499976	S804S-D1,6	2CCF019931R0001	0.98	1
	2	499983	S804S-D2	2CCF019932R0001	0.98	1
	2.5	499990	S804S-D2,5	2CCF019933R0001	0.98	1
	3	500009	S804S-D3	2CCF019934R0001	0.98	1
	4	500016	S804S-D4	2CCF019935R0001	0.98	1
	5	500023	S804S-D5	2CCF019936R0001	0.98	1
	6	408213	S804S-D6	2CCS864001R0061	0.98	1
	8	411435	S804S-D8	2CCS864001R0081	0.98	1
	10	201326	S804S-D10	2CCS864001R0101	0.98	1
	13	201333	S804S-D13	2CCS864001R0131	0.98	1
	16	201340	S804S-D16	2CCS864001R0161	0.98	1
	20	201357	S804S-D20	2CCS864001R0201	0.98	1
	25	201364	S804S-D25	2CCS864001R0251	0.98	1
	32	201371	S804S-D32	2CCS864001R0321	0.98	1
	40	201388	S804S-D40	2CCS864001R0401	0.98	1
	50	201395	S804S-D50	2CCS864001R0501	0.98	1
	63	201401	S804S-D63	2CCS864001R0631	0.98	1
	80	201418	S804S-D80	2CCS864001R0801	0.98	1
	100	201425	S804S-D100	2CCS864001R0821	0.98	1
	125	201432	S804S-D125	2CCS864001R0841	0.98	1

High performance MCBs

S800S series with ring terminal connection, D characteristic



S801S



S802S

S800S-D characteristic

Function: protection and control of the circuits against overloads and short-circuits when a high breaking capacity is required; protection for circuits which supply loads with high inrush current at the circuit closing (motors, LV / LV transformers, breakdown lamps); very useful when selectivity is needed vs an MCCB or back-up vs other MCBs wired downstream.

Applications: commercial and industrial.

Standard: IEC/EN 60947-2, IEC/EN 60898

Icn=25kA (10 ... 80A)

Icu=50 kA

Number of poles	Rated current In A	Bbn 7612271 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	6	408343	S801S-D6-R	2CCS861002R0061		0.245	1
	8	411565	S801S-D8-R	2CCS861002R0081		0.245	1
	10	210113	S801S-D10-R	2CCS861002R0101		0.245	1
	13	210120	S801S-D13-R	2CCS861002R0131		0.245	1
	16	210137	S801S-D16-R	2CCS861002R0161		0.245	1
	20	210144	S801S-D20-R	2CCS861002R0201		0.245	1
	25	210151	S801S-D25-R	2CCS861002R0251		0.245	1
	32	210168	S801S-D32-R	2CCS861002R0321		0.245	1
	40	207304	S801S-D40-R	2CCS861002R0401		0.245	1
	50	207311	S801S-D50-R	2CCS861002R0501		0.245	1
	63	207328	S801S-D63-R	2CCS861002R0631		0.245	1
	80	207335	S801S-D80-R	2CCS861002R0801		0.245	1
	100	207342	S801S-D100-R	2CCS861002R0821		0.245	1
	125	207359	S801S-D125-R	2CCS861002R0841		0.245	1
2	6	408350	S802S-D6-R	2CCS862002R0061		0.49	1
	8	411572	S802S-D8-R	2CCS862002R0081		0.49	1
	10	210175	S802S-D10-R	2CCS862002R0101		0.49	1
	13	210182	S802S-D13-R	2CCS862002R0131		0.49	1
	16	210199	S802S-D16-R	2CCS862002R0161		0.49	1
	20	210205	S802S-D20-R	2CCS862002R0201		0.49	1
	25	210212	S802S-D25-R	2CCS862002R0251		0.49	1
	32	210229	S802S-D32-R	2CCS862002R0321		0.49	1
	40	207366	S802S-D40-R	2CCS862002R0401		0.49	1
	50	207373	S802S-D50-R	2CCS862002R0501		0.49	1
	63	207380	S802S-D63-R	2CCS862002R0631		0.49	1
	80	207397	S802S-D80-R	2CCS862002R0801		0.49	1
	100	207403	S802S-D100-R	2CCS862002R0821		0.49	1
	125	207410	S802S-D125-R	2CCS862002R0841		0.49	1

High performance MCBs

S800S series with ring terminal connection, D characteristic



S803S



S804S

Number of poles	Rated current In A	Bbn 7612271 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	6	408367	S803S-D6-R	2CCS863002R0061		0.735	1
	8	411589	S803S-D8-R	2CCS863002R0081		0.735	1
	10	210236	S803S-D10-R	2CCS863002R0101		0.735	1
	13	210243	S803S-D13-R	2CCS863002R0131		0.735	1
	16	210250	S803S-D16-R	2CCS863002R0161		0.735	1
	20	210267	S803S-D20-R	2CCS863002R0201		0.735	1
	25	210274	S803S-D25-R	2CCS863002R0251		0.735	1
	32	210281	S803S-D32-R	2CCS863002R0321		0.735	1
	40	207427	S803S-D40-R	2CCS863002R0401		0.735	1
	50	207434	S803S-D50-R	2CCS863002R0501		0.735	1
	63	207441	S803S-D63-R	2CCS863002R0631		0.735	1
	80	207458	S803S-D80-R	2CCS863002R0801		0.735	1
	100	207465	S803S-D100-R	2CCS863002R0821		0.735	1
	125	207472	S803S-D125-R	2CCS863002R0841		0.735	1
4	6	408374	S804S-D6-R	2CCS864002R0061		0.98	1
	8	411596	S804S-D8-R	2CCS864002R0081		0.98	1
	10	210298	S804S-D10-R	2CCS864002R0101		0.98	1
	13	210304	S804S-D13-R	2CCS864002R0131		0.98	1
	16	210311	S804S-D16-R	2CCS864002R0161		0.98	1
	20	210328	S804S-D20-R	2CCS864002R0201		0.98	1
	25	210335	S804S-D25-R	2CCS864002R0251		0.98	1
	32	210342	S804S-D32-R	2CCS864002R0321		0.98	1
	40	207489	S804S-D40-R	2CCS864002R0401		0.98	1
	50	207496	S804S-D50-R	2CCS864002R0501		0.98	1
	63	207502	S804S-D63-R	2CCS864002R0631		0.98	1
	80	207519	S804S-D80-R	2CCS864002R0801		0.98	1
	100	207526	S804S-D100-R	2CCS864002R0821		0.98	1
	125	207533	S804S-D125-R	2CCS864002R0841		0.98	1

High performance MCBs

S800S series with cage terminal, K characteristic

S800S-K characteristic
Function: protection and control of the circuits like motors, transformer and auxiliary circuits, against overloads and short-circuits when a high breaking capacity is required; very useful when selectivity is needed vs an MCCB or back-up vs other MCBs wired downstream.
Advantages: no nuisance tripping in the case of functional peak currents up to 10xIn, depending on the series; through its highly sensitive thermostatic bimetal trip, the K-type characteristic offers protection to damageable elements in the overcurrent range; it also provides the best protection to cables and lines.
Applications: commercial and industrial.
Standard: IEC/EN 60947-2, UL 1077, supplementary protector
Icu=50 kA



S801S



S802S

Number of poles	Rated current [A]	GTIN EAN 7612271	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
1	0.5	500030	S801S-K0,5	2CCF019937R0001	0.24	1
	1	500047	S801S-K1	2CCF019938R0001	0.24	1
	1.6	500054	S801S-K1,6	2CCF019939R0001	0.24	1
	2	500061	S801S-K2	2CCF019940R0001	0.24	1
	2.5	500078	S801S-K2,5	2CCF019941R0001	0.24	1
	3	500085	S801S-K3	2CCF019942R0001	0.24	1
	4	500092	S801S-K4	2CCF019943R0001	0.24	1
	5	500108	S801S-K5	2CCF019944R0001	0.24	1
	6	408220	S801S-K6	2CCS861001R0067	0.24	1
	8	411442	S801S-K8	2CCS861001R0407	0.24	1
	10	201449	S801S-K10	2CCS861001R0427	0.24	1
	13	201456	S801S-K13	2CCS861001R0447	0.24	1
	16	201463	S801S-K16	2CCS861001R0467	0.24	1
	20	201470	S801S-K20	2CCS861001R0487	0.24	1
	25	201487	S801S-K25	2CCS861001R0517	0.24	1
	32	201494	S801S-K32	2CCS861001R0537	0.24	1
	40	201500	S801S-K40	2CCS861001R0557	0.24	1
	50	201517	S801S-K50	2CCS861001R0577	0.24	1
	63	201524	S801S-K63	2CCS861001R0597	0.24	1
	80	201531	S801S-K80	2CCS861001R0627	0.24	1
	100	201548	S801S-K100	2CCS861001R0637	0.24	1
	125	201555	S801S-K125	2CCS861001R0647	0.24	1
2	0.5	500115	S802S-K0,5	2CCF019945R0001	0.49	1
	1	500122	S802S-K1	2CCF019946R0001	0.49	1
	1.6	500139	S802S-K1,6	2CCF019947R0001	0.49	1
	2	500146	S802S-K2	2CCF019948R0001	0.49	1
	2.5	500153	S802S-K2,5	2CCF019949R0001	0.49	1
	3	500160	S802S-K3	2CCF019950R0001	0.49	1
	4	500177	S802S-K4	2CCF019951R0001	0.49	1
	5	500184	S802S-K5	2CCF019952R0001	0.49	1
	6	408237	S802S-K6	2CCS862001R0067	0.49	1
	8	411459	S802S-K8	2CCS862001R0407	0.49	1
	10	201562	S802S-K10	2CCS862001R0427	0.49	1
	13	201579	S802S-K13	2CCS862001R0447	0.49	1
	16	201586	S802S-K16	2CCS862001R0467	0.49	1
	20	201593	S802S-K20	2CCS862001R0487	0.49	1
	25	201609	S802S-K25	2CCS862001R0517	0.49	1
	32	201616	S802S-K32	2CCS862001R0537	0.49	1
	40	201623	S802S-K40	2CCS862001R0557	0.49	1
	50	201630	S802S-K50	2CCS862001R0577	0.49	1
	63	201647	S802S-K63	2CCS862001R0597	0.49	1
	80	201654	S802S-K80	2CCS862001R0627	0.49	1
	100	201661	S802S-K100	2CCS862001R0637	0.49	1
	125	201678	S802S-K125	2CCS862001R0647	0.49	1

High performance MCBs

S800S series with cage terminal, K characteristic



S803S



S804S

Number of poles	Rated current [A]	GTIN EAN 7612271	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
3	0.5	500191	S803S-K0,5	2CCF019953R0001	0.74	1
	1	500207	S803S-K1	2CCF019954R0001	0.74	1
	1.6	500214	S803S-K1,6	2CCF019955R0001	0.74	1
	2	500221	S803S-K2	2CCF019956R0001	0.74	1
	2.5	500238	S803S-K2,5	2CCF019957R0001	0.74	1
	3	500245	S803S-K3	2CCF019958R0001	0.74	1
	4	500252	S803S-K4	2CCF019959R0001	0.74	1
	5	500269	S803S-K5	2CCF019960R0001	0.74	1
	6	408244	S803S-K6	2CCS863001R0067	0.74	1
	8	411466	S803S-K8	2CCS863001R0407	0.74	1
	10	201685	S803S-K10	2CCS863001R0427	0.74	1
	13	201692	S803S-K13	2CCS863001R0447	0.74	1
	16	201708	S803S-K16	2CCS863001R0467	0.74	1
	20	201715	S803S-K20	2CCS863001R0487	0.74	1
	25	201722	S803S-K25	2CCS863001R0517	0.74	1
	32	201739	S803S-K32	2CCS863001R0537	0.74	1
	40	201746	S803S-K40	2CCS863001R0557	0.74	1
	50	201753	S803S-K50	2CCS863001R0577	0.74	1
	63	201760	aS803S-K63	2CCS863001R0597	0.74	1
	80	201777	S803S-K80	2CCS863001R0627	0.74	1
	100	201784	S803S-K100	2CCS863001R0637	0.74	1
	125	201791	S803S-K125	2CCS863001R0647	0.74	1
4	0.5	500276	S804S-K0,5	2CCF019961R0001	0.98	1
	1	500283	S804S-K1	2CCF019962R0001	0.98	1
	1.6	500290	S804S-K1,6	2CCF019963R0001	0.98	1
	2	500306	S804S-K2	2CCF019964R0001	0.98	1
	2.5	500313	S804S-K2,5	2CCF019965R0001	0.98	1
	3	500320	S804S-K3	2CCF019966R0001	0.98	1
	4	500337	S804S-K4	2CCF019967R0001	0.98	1
	5	500344	S804S-K5	2CCF019968R0001	0.98	1
	6	408251	S804S-K6	2CCS864001R0067	0.98	1
	8	411473	S804S-K8	2CCS864001R0407	0.98	1
	10	201807	S804S-K10	2CCS864001R0427	0.98	1
	13	201814	S804S-K13	2CCS864001R0447	0.98	1
	16	201821	S804S-K16	2CCS864001R0467	0.98	1
	20	201838	S804S-K20	2CCS864001R0487	0.98	1
	25	201845	S804S-K25	2CCS864001R0517	0.98	1
	32	201852	S804S-K32	2CCS864001R0537	0.98	1
	40	201869	S804S-K40	2CCS864001R0557	0.98	1
	50	201876	S804S-K50	2CCS864001R0577	0.98	1
	63	201883	S804S-K63	2CCS864001R0597	0.98	1
	80	201890	S804S-K80	2CCS864001R0627	0.98	1
	100	201906	S804S-K100	2CCS864001R0637	0.98	1
	125	201913	S804S-K125	2CCS864001R0647	0.98	1

High performance MCBs

S800S series with ring terminal connection, K characteristic

S800S-K characteristic
Function: protection and control of the circuits like motors, transformer and auxiliary circuits, against overloads and short-circuits when a high breaking capacity is required; very useful when selectivity is needed vs an MCCB or back-up vs other MCBs wired downstream.
Advantages: no nuisance tripping in the case of functional peak currents up to 10xIn, depending on the series; through its highly sensitive thermostatic bimetal trip, the K-type characteristic offers protection to damageable elements in the overcurrent range; it also provides the best protection to cables and lines.
Applications: commercial and industrial.
Standard: IEC/EN 60947-2
Icu=50 kA



S801S



S802S

Number of poles	Rated current In A	Bbn 7612271 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	6	408381	S801S-K6-R	2CCS861002R0067		0.245	1
	8	411602	S801S-K8-R	2CCS861002R0407		0.245	1
	10	209391	S801S-K10-R	2CCS861002R0427		0.245	1
	13	209407	S801S-K13-R	2CCS861002R0447		0.245	1
	16	209414	S801S-K16-R	2CCS861002R0467		0.245	1
	20	209421	S801S-K20-R	2CCS861002R0487		0.245	1
	25	209438	S801S-K25-R	2CCS861002R0517		0.245	1
	32	209445	S801S-K32-R	2CCS861002R0537		0.245	1
	40	207540	S801S-K40-R	2CCS861002R0557		0.245	1
	50	207557	S801S-K50-R	2CCS861002R0577		0.245	1
	63	207564	S801S-K63-R	2CCS861002R0597		0.245	1
	80	207571	S801S-K80-R	2CCS861002R0627		0.245	1
	100	207588	S801S-K100-R	2CCS861002R0637		0.245	1
	125	207595	S801S-K125-R	2CCS861002R0647		0.245	1
2	6	408398	S802S-K6-R	2CCS862002R0067		0.49	1
	8	411619	S802S-K8-R	2CCS862002R0407		0.49	1
	10	209452	S802S-K10-R	2CCS862002R0427		0.49	1
	13	209469	S802S-K13-R	2CCS862002R0447		0.49	1
	16	209476	S802S-K16-R	2CCS862002R0467		0.49	1
	20	209483	S802S-K20-R	2CCS862002R0487		0.49	1
	25	209490	S802S-K25-R	2CCS862002R0517		0.49	1
	32	209506	S802S-K32-R	2CCS862002R0537		0.49	1
	40	207601	S802S-K40-R	2CCS862002R0557		0.49	1
	50	207618	S802S-K50-R	2CCS862002R0577		0.49	1
	63	207625	S802S-K63-R	2CCS862002R0597		0.49	1
	80	207632	S802S-K80-R	2CCS862002R0627		0.49	1
	100	207649	S802S-K100-R	2CCS862002R0637		0.49	1
	125	207656	S802S-K125-R	2CCS862002R0647		0.49	1

High performance MCBs

S800S series with ring terminal connection, K characteristic



S803S



S804S

Number of poles	Rated current In A	Bbn 7612271 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	6	408404	S803S-K6-R	2CCS863002R0067		0.735	1
	8	411626	S803S-K8-R	2CCS863002R0407		0.735	1
	10	209513	S803S-K10-R	2CCS863002R0427		0.735	1
	13	209520	S803S-K13-R	2CCS863002R0447		0.735	1
	16	209537	S803S-K16-R	2CCS863002R0467		0.735	1
	20	209544	S803S-K20-R	2CCS863002R0487		0.735	1
	25	209551	S803S-K25-R	2CCS863002R0517		0.735	1
	32	209568	S803S-K32-R	2CCS863002R0537		0.735	1
	40	207663	S803S-K40-R	2CCS863002R0557		0.735	1
	50	207670	S803S-K50-R	2CCS863002R0577		0.735	1
	63	207687	S803S-K63-R	2CCS863002R0597		0.735	1
	80	207694	S803S-K80-R	2CCS863002R0627		0.735	1
	100	207700	S803S-K100-R	2CCS863002R0637		0.735	1
	125	207717	S803S-K125-R	2CCS863002R0647		0.735	1
4	6	408411	S804S-K6-R	2CCS864002R0067		0.98	1
	8	411633	S804S-K8-R	2CCS864002R0407		0.98	1
	10	209575	S804S-K10-R	2CCS864002R0427		0.98	1
	13	209582	S804S-K13-R	2CCS864002R0447		0.98	1
	16	209599	S804S-K16-R	2CCS864002R0467		0.98	1
	20	209605	S804S-K20-R	2CCS864002R0487		0.98	1
	25	209612	S804S-K25-R	2CCS864002R0517		0.98	1
	32	209629	S804S-K32-R	2CCS864002R0537		0.98	1
	40	207724	S804S-K40-R	2CCS864002R0557		0.98	1
	50	207731	S804S-K50-R	2CCS864002R0577		0.98	1
	63	207748	S804S-K63-R	2CCS864002R0597		0.98	1
	80	207755	S804S-K80-R	2CCS864002R0627		0.98	1
	100	207762	S804S-K100-R	2CCS864002R0637		0.98	1
	125	207779	S804S-K125-R	2CCS864002R0647		0.98	1

High performance MCBs

S800S series KM characteristic



S803S

S800S-KM characteristic with cage terminal

Function: protection and control of the circuits against overloads and short-circuits when a high breaking capacity is required; only magnetic version dedicated to protect motors; very useful when selectivity is needed vs an MCCB or back-up vs other MCBs wired downstream; version dedicated to application in direct current circuits.

Applications: commercial and industrial.

Standard: IEC/EN 60947-2

Icu=50 kA

Number of poles	Rated current [A]	GTIN EAN 7612271	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
3	10	441104	S803S-KM10	2CCF019559R0001	0.735	1
	16	441111	S803S-KM16	2CCF019560R0001	0.735	1
	20	202194	S803S-KM20	2CCS863001R0486	0.74	1
	25	202200	S803S-KM25	2CCS863001R0516	0.74	1
	32	202217	S803S-KM32	2CCS863001R0536	0.74	1
	40	202224	S803S-KM40	2CCS863001R0556	0.74	1
	50	202231	S803S-KM50	2CCS863001R0576	0.74	1
	63	202248	S803S-KM63	2CCS863001R0596	0.74	1
	80	202255	S803S-KM80	2CCS863001R0626	0.74	1

*M stands for magnetic tripping only



S803S

S800S-KM-R characteristic with ring terminal connection

Function: protection and control of the circuits against overloads and short-circuits when a high breaking capacity is required; only magnetic version dedicated to protect motors; very useful when selectivity is needed vs an MCCB or back-up vs other MCBs wired downstream; version dedicated to application in direct current circuits.

Applications: commercial and industrial.

Standard: IEC/EN 60947-2

Icu=50 kA

Number of poles	Rated current In A	Bbn 7612271 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	20	210830	S803S-KM20-R	2CCS863002R0486		0.735	1
	25	210847	S803S-KM25-R	2CCS863002R0516		0.735	1
	32	210854	S803S-KM32-R	2CCS863002R0536		0.735	1
	40	207786	S803S-KM40-R	2CCS863002R0556		0.735	1
	50	207793	S803S-KM50-R	2CCS863002R0576		0.735	1
	63	207809	S803S-KM63-R	2CCS863002R0596		0.735	1
	80	207816	S803S-KM80-R	2CCS863002R0626		0.735	1

High performance MCBs

S800S series DC range with cage terminal, UC-B characteristic



S801S



S802S

S800S-UCB characteristic

Function: protection and control of the circuits against overloads and short-circuits when a high breaking capacity is required; protection for people and big length cables in TN and IT systems; very useful when selectivity is needed vs an MCCB or back-up vs other MCBs wired downstream; version dedicated to application in direct current circuits.

Applications: commercial and industrial.

Standard: IEC/EN 60947-2

Icu=50 kA

Number of poles	Rated current [A]	GTIN EAN 761227	Order details		Weight [kg]	Pack. unit
			Type Coade	Order code		
1	0.5	1500351	S801S-UCB0,5	2CCF019969R0001	0.25	1
	1	1500368	S801S-UCB1	2CCF019970R0001	0.25	1
	1.6	1500375	S801S-UCB1,6	2CCF019971R0001	0.25	1
	2	1500382	S801S-UCB2	2CCF019972R0001	0.25	1
	2.5	1500399	S801S-UCB2,5	2CCF019973R0001	0.25	1
	3	1500405	S801S-UCB3	2CCF019974R0001	0.25	1
	4	1500412	S801S-UCB4	2CCF019975R0001	0.25	1
	5	1500429	S801S-UCB5	2CCF019976R0001	0.25	1
	6	1500436	S801S-UCB6	2CCF019977R0001	0.25	1
	8	1500443	S801S-UCB8	2CCF019978R0001	0.25	1
	10	202842	S801S-UCB10	2CCS861001R1105	0.24	1
	13	202859	S801S-UCB13	2CCS861001R1135	0.24	1
	16	202866	S801S-UCB16	2CCS861001R1165	0.24	1
	20	202873	S801S-UCB20	2CCS861001R1205	0.24	1
	25	202880	S801S-UCB25	2CCS861001R1255	0.24	1
	32	202897	S801S-UCB32	2CCS861001R1325	0.24	1
	40	202903	S801S-UCB40	2CCS861001R1405	0.24	1
	50	202910	S801S-UCB50	2CCS861001R1505	0.24	1
	63	202927	S801S-UCB63	2CCS861001R1635	0.24	1
	80	202934	S801S-UCB80	2CCS861001R1805	0.24	1
	100	202941	S801S-UCB100	2CCS861001R1825	0.24	1
	125	202958	S801S-UCB125	2CCS861001R1845	0.24	1
2	0.5	1500559	S802S-UCB0,5	2CCF019989R0001	0.49	1
	1	1500566	S802S-UCB1	2CCF019990R0001	0.49	1
	1.6	1500573	S802S-UCB1,6	2CCF019991R0001	0.49	1
	2	1500580	S802S-UCB2	2CCF019992R0001	0.49	1
	2.5	1500597	S802S-UCB2,5	2CCF019993R0001	0.49	1
	3	1500603	S802S-UCB3	2CCF019994R0001	0.49	1
	4	1500610	S802S-UCB4	2CCF019995R0001	0.49	1
	5	1500627	S802S-UCB5	2CCF019996R0001	0.49	1
	6	1500634	S802S-UCB6	2CCF019997R0001	0.49	1
	8	1500641	S802S-UCB8	2CCF019998R0001	0.49	1
	10	202965	S802S-UCB10	2CCS862001R1105	0.49	1
	13	202972	S802S-UCB13	2CCS862001R1135	0.49	1
	16	202989	S802S-UCB16	2CCS862001R1165	0.49	1
	20	202996	S802S-UCB20	2CCS862001R1205	0.49	1
	25	203009	S802S-UCB25	2CCS862001R1255	0.49	1
	32	203016	S802S-UCB32	2CCS862001R1325	0.49	1
	40	203023	S802S-UCB40	2CCS862001R1405	0.49	1
	50	203030	S802S-UCB50	2CCS862001R1505	0.49	1
	63	203047	S802S-UCB63	2CCS862001R1635	0.49	1
	80	203054	S802S-UCB80	2CCS862001R1805	0.49	1
	100	203061	S802S-UCB100	2CCS862001R1825	0.49	1
	125	203078	S802S-UCB125	2CCS862001R1845	0.49	1

*For DC applications

High performance MCBs

S800S series DC range with cage terminal, UC-B characteristic



S803S



S804S

Number of poles	Rated current [A]	GTIN EAN 7612271	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
3	0.5	502713	S803S-UCB0,5	2CCF030040R0001	0.74	1
	1	502720	S803S-UCB1	2CCF030041R0001	0.74	1
	1.6	502874	S803S-UCB1,6	2CCF030056R0001	0.74	1
	2	502737	S803S-UCB2	2CCF030042R0001	0.74	1
	2.5	502744	S803S-UCB2,5	2CCF030043R0001	0.74	1
	3	502881	S803S-UCB3	2CCF030057R0001	0.74	1
	4	502751	S803S-UCB4	2CCF030044R0001	0.74	1
	5	502768	S803S-UCB5	2CCF030045R0001	0.74	1
	6	502898	S803S-UCB6	2CCF030058R0001	0.74	1
	8	500849	S803S-UCB8	2CCF020018R0001	0.74	1
	10	203085	S803S-UCB10	2CCS863001R1105	0.74	1
	13	203092	S803S-UCB13	2CCS863001R1135	0.74	1
	16	203108	S803S-UCB16	2CCS863001R1165	0.74	1
	20	203115	S803S-UCB20	2CCS863001R1205	0.74	1
	25	203122	S803S-UCB25	2CCS863001R1255	0.74	1
	32	203139	S803S-UCB32	2CCS863001R1325	0.74	1
	40	203146	S803S-UCB40	2CCS863001R1405	0.74	1
	50	203153	S803S-UCB50	2CCS863001R1505	0.74	1
	63	203160	S803S-UCB63	2CCS863001R1635	0.74	1
	80	203177	S803S-UCB80	2CCS863001R1805	0.74	1
	100	203184	S803S-UCB100	2CCS863001R1825	0.74	1
	125	203191	S803S-UCB125	2CCS863001R1845	0.74	1
4	0.5	500955	S804S-UCB0,5	2CCF020029R0001	0.98	1
	1	500962	S804S-UCB1	2CCF020030R0001	0.98	1
	1.6	500979	S804S-UCB1,6	2CCF020031R0001	0.98	1
	2	500986	S804S-UCB2	2CCF020032R0001	0.98	1
	2.5	500993	S804S-UCB2,5	2CCF020033R0001	0.98	1
	3	501006	S804S-UCB3	2CCF020034R0001	0.98	1
	4	501013	S804S-UCB4	2CCF020035R0001	0.98	1
	5	502775	S804S-UCB5	2CCF030046R0001	0.98	1
	6	502782	S804S-UCB6	2CCF030047R0001	0.98	1
	8	502904	S804S-UCB8	2CCF030059R0001	0.98	1
	10	203207	S804S-UCB10	2CCS864001R1105	0.98	1
	13	203214	S804S-UCB13	2CCS864001R1135	0.98	1
	16	203221	S804S-UCB16	2CCS864001R1165	0.98	1
	20	203238	S804S-UCB20	2CCS864001R1205	0.98	1
	25	203245	S804S-UCB25	2CCS864001R1255	0.98	1
	32	203252	S804S-UCB32	2CCS864001R1325	0.98	1
	40	203269	S804S-UCB40	2CCS864001R1405	0.98	1
	50	203276	S804S-UCB50	2CCS864001R1505	0.98	1
	63	203283	S804S-UCB63	2CCS864001R1635	0.98	1
	80	203290	S804S-UCB80	2CCS864001R1805	0.98	1
	100	203306	S804S-UCB100	2CCS864001R1825	0.98	1
	125	203313	S804S-UCB125	2CCS864001R1845	0.98	1

*For DC applications

High performance MCBs

S800S series DC range with ring terminal connection, UC-B characteristic



S801S



S802S

S800S-UCB characteristic

Function: protection and control of the circuits against overloads and short-circuits when a high breaking capacity is required; protection for people and big length cables in TN and IT systems; very useful when selectivity is needed vs an MCCB or back-up vs other MCBs wired downstream; version dedicated to application in direct current circuits.

Applications: commercial and industrial.

Standard: IEC/EN 60947-2

Icu=50 kA

Number of poles	Rated current In A	Bbn 7612271 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	10	210359	S801S-UCB10-R	2CCS861002R1105		0.245	1
	13	210366	S801S-UCB13-R	2CCS861002R1135		0.245	1
	16	210373	S801S-UCB16-R	2CCS861002R1165		0.245	1
	20	210380	S801S-UCB20-R	2CCS861002R1205		0.245	1
	25	210397	S801S-UCB25-R	2CCS861002R1255		0.245	1
	32	210403	S801S-UCB32-R	2CCS861002R1325		0.245	1
	40	208424	S801S-UCB40-R	2CCS861002R1405		0.245	1
	50	208431	S801S-UCB50-R	2CCS861002R1505		0.245	1
	63	208448	S801S-UCB63-R	2CCS861002R1635		0.245	1
	80	208455	S801S-UCB80-R	2CCS861002R1805		0.245	1
	100	208462	S801S-UCB100-R	2CCS861002R1825		0.245	1
	125	208479	S801S-UCB125-R	2CCS861002R1845		0.245	1
2	10	210410	S802S-UCB10-R	2CCS862002R1105		0.49	1
	13	210427	S802S-UCB13-R	2CCS862002R1135		0.49	1
	16	210434	S802S-UCB16-R	2CCS862002R1165		0.49	1
	20	210441	S802S-UCB20-R	2CCS862002R1205		0.49	1
	25	210458	S802S-UCB25-R	2CCS862002R1255		0.49	1
	32	210465	S802S-UCB32-R	2CCS862002R1325		0.49	1
	40	208486	S802S-UCB40-R	2CCS862002R1405		0.49	1
	50	208493	S802S-UCB50-R	2CCS862002R1505		0.49	1
	63	208509	S802S-UCB63-R	2CCS862002R1635		0.49	1
	80	208516	S802S-UCB80-R	2CCS862002R1805		0.49	1
	100	208523	S802S-UCB100-R	2CCS862002R1825		0.49	1
	125	208530	S802S-UCB125-R	2CCS862002R1845		0.49	1

High performance MCBs

S800S series DC range with ring terminal connection, UC-B characteristic



S803S



S804S

Number of poles	Rated current In A	Bbn 7612271 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	10	210472	S803S-UCB10-R	2CCS863002R1105		0.735	1
	13	210489	S803S-UCB13-R	2CCS863002R1135		0.735	1
	16	210496	S803S-UCB16-R	2CCS863002R1165		0.735	1
	20	210502	S803S-UCB20-R	2CCS863002R1205		0.735	1
	25	210519	S803S-UCB25-R	2CCS863002R1255		0.735	1
	32	210526	S803S-UCB32-R	2CCS863002R1325		0.735	1
	40	208547	S803S-UCB40-R	2CCS863002R1405		0.735	1
	50	208554	S803S-UCB50-R	2CCS863002R1505		0.735	1
	63	208561	S803S-UCB63-R	2CCS863002R1635		0.735	1
	80	208578	S803S-UCB80-R	2CCS863002R1805		0.735	1
	100	208585	S803S-UCB100-R	2CCS863002R1825		0.735	1
	125	208592	S803S-UCB125-R	2CCS863002R1845		0.735	1
4	10	210533	S804S-UCB10-R	2CCS864002R1105		0.98	1
	13	210540	S804S-UCB13-R	2CCS864002R1135		0.98	1
	16	210557	S804S-UCB16-R	2CCS864002R1165		0.98	1
	20	210564	S804S-UCB20-R	2CCS864002R1205		0.98	1
	25	210571	S804S-UCB25-R	2CCS864002R1255		0.98	1
	32	210588	S804S-UCB32-R	2CCS864002R1325		0.98	1
	40	208608	S804S-UCB40-R	2CCS864002R1405		0.98	1
	50	208615	S804S-UCB50-R	2CCS864002R1505		0.98	1
	63	208622	S804S-UCB63-R	2CCS864002R1635		0.98	1
	80	208639	S804S-UCB80-R	2CCS864002R1805		0.98	1
	100	208646	S804S-UCB100-R	2CCS864002R1825		0.98	1
	125	208653	S804S-UCB125-R	2CCS864002R1845		0.98	1

High performance MCBs

S800S series DC range with cage terminal, UC-K characteristic



S801S



S802S

S800S-UCK characteristic

Function: protection and control of the circuits like motors, transformer and auxiliary circuits, against overloads and short-circuits when a high breaking capacity is required; very useful when selectivity is needed vs an MCCB or back-up vs other MCBs wired downstream; version dedicated to application in direct current circuits.

Advantages: no nuisance tripping in the case of functional peak currents up to 10xIn, depending on the series; through its highly sensitive thermostatic bimetal trip, the K-type characteristic offers protection to damageable elements in the overcurrent range; it also provides the best protection to cables and lines.

Applications: commercial and industrial.

Standard: IEC/EN 60947-2

Icu=50 kA

Number of poles	Rated current [A]	GTIN EAN 7612271	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
1	0.5	500450	S801S-UCK0,5	2CCF019979R0001	0.25	1
	1	500467	S801S-UCK1	2CCF019980R0001	0.25	1
	1.6	500474	S801S-UCK1,6	2CCF019981R0001	0.25	1
	2	500481	S801S-UCK2	2CCF019982R0001	0.25	1
	2.5	500498	S801S-UCK2,5	2CCF019983R0001	0.25	1
	3	500504	S801S-UCK3	2CCF019984R0001	0.25	1
	4	500511	S801S-UCK4	2CCF019985R0001	0.25	1
	5	500528	S801S-UCK5	2CCF019986R0001	0.25	1
	6	500535	S801S-UCK6	2CCF019987R0001	0.25	1
	8	500542	S801S-UCK8	2CCF019988R0001	0.25	1
	10	203320	S801S-UCK10	2CCS861001R1427	0.24	1
	13	203337	S801S-UCK13	2CCS861001R1447	0.24	1
	16	203344	S801S-UCK16	2CCS861001R1467	0.24	1
	20	203351	S801S-UCK20	2CCS861001R1487	0.24	1
	25	203368	S801S-UCK25	2CCS861001R1517	0.24	1
	32	203375	S801S-UCK32	2CCS861001R1537	0.24	1
	40	203382	S801S-UCK40	2CCS861001R1557	0.24	1
	50	203399	S801S-UCK50	2CCS861001R1577	0.24	1
	63	203405	S801S-UCK63	2CCS861001R1597	0.24	1
	80	203412	S801S-UCK80	2CCS861001R1627	0.24	1
	100	203429	S801S-UCK100	2CCS861001R1637	0.24	1
	125	203436	S801S-UCK125	2CCS861001R1647	0.24	1
2	0.5	500658	S802S-UCK0,5	2CCF019999R0001	0.49	1
	1	502652	S802S-UCK1	2CCF030034R0001	0.49	1
	1.6	502669	S802S-UCK1,6	2CCF030035R0001	0.49	1
	2	502843	S802S-UCK2	2CCF030053R0001	0.49	1
	2.5	502676	S802S-UCK2,5	2CCF030036R0001	0.49	1
	3	502683	S802S-UCK3	2CCF030037R0001	0.49	1
	4	502850	S802S-UCK4	2CCF030054R0001	0.49	1
	5	502690	S802S-UCK5	2CCF030038R0001	0.49	1
	6	502706	S802S-UCK6	2CCF030039R0001	0.49	1
	8	502867	S802S-UCK8	2CCF030055R0001	0.49	1
	10	203443	S802S-UCK10	2CCS862001R1427	0.49	1
	13	203450	S802S-UCK13	2CCS862001R1447	0.49	1
	16	203467	S802S-UCK16	2CCS862001R1467	0.49	1
	20	203474	S802S-UCK20	2CCS862001R1487	0.49	1
	25	203481	S802S-UCK25	2CCS862001R1517	0.49	1
	32	203498	S802S-UCK32	2CCS862001R1537	0.49	1
	40	203504	S802S-UCK40	2CCS862001R1557	0.49	1
	50	203511	S802S-UCK50	2CCS862001R1577	0.49	1
	63	203528	S802S-UCK63	2CCS862001R1597	0.49	1
	80	203535	S802S-UCK80	2CCS862001R1627	0.49	1
	100	203542	S802S-UCK100	2CCS862001R1637	0.49	1
	125	203559	S802S-UCK125	2CCS862001R1647	0.49	1

*For DC applications

High performance MCBs

S800S series DC range with cage terminal, UC-K characteristic



S803S



S804S

Number of poles	Rated current [A]	GTIN EAN 7612271	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
3	0.5	500856	S803S-UCK0,5	2CCF020019R0001	0.74	1
	1	500863	S803S-UCK1	2CCF020020R0001	0.74	1
	1.6	500870	S803S-UCK1,6	2CCF020021R0001	0.74	1
	2	500887	S803S-UCK2	2CCF020022R0001	0.74	1
	2.5	500894	S803S-UCK2,5	2CCF020023R0001	0.74	1
	3	500900	S803S-UCK3	2CCF020024R0001	0.74	1
	4	500917	S803S-UCK4	2CCF020025R0001	0.74	1
	5	500924	S803S-UCK5	2CCF020026R0001	0.74	1
	6	500931	S803S-UCK6	2CCF020027R0001	0.74	1
	8	500948	S803S-UCK8	2CCF020028R0001	0.74	1
	10	203566	S803S-UCK10	2CCS863001R1427	0.74	1
	13	203573	S803S-UCK13	2CCS863001R1447	0.74	1
	16	203580	S803S-UCK16	2CCS863001R1467	0.74	1
	20	203597	S803S-UCK20	2CCS863001R1487	0.74	1
	25	203603	S803S-UCK25	2CCS863001R1517	0.74	1
	32	203610	S803S-UCK32	2CCS863001R1537	0.74	1
	40	203627	S803S-UCK40	2CCS863001R1557	0.74	1
	50	203634	S803S-UCK50	2CCS863001R1577	0.74	1
	63	203641	S803S-UCK63	2CCS863001R1597	0.74	1
	80	203658	S803S-UCK80	2CCS863001R1627	0.74	1
	100	203665	S803S-UCK100	2CCS863001R1637	0.74	1
	125	203672	S803S-UCK125	2CCS863001R1647	0.74	1
4	0.5	502799	S804S-UCK0,5	2CCF030048R0001	0.98	1
	1	502805	S804S-UCK1	2CCF030049R0001	0.98	1
	1.6	502911	S804S-UCK1,6	2CCF030060R0001	0.98	1
	2	502812	S804S-UCK2	2CCF030050R0001	0.98	1
	2.5	502829	S804S-UCK2,5	2CCF030051R0001	0.98	1
	3	502928	S804S-UCK3	2CCF030061R0001	0.98	1
	4	502836	S804S-UCK4	2CCF030052R0001	0.98	1
	5	502416	S804S-UCK5	2CCF030020R0001	0.98	1
	6	502607	S804S-UCK6	2CCF030029R0001	0.98	1
	8	501143	S804S-UCK8	2CCF020048R0001	0.98	1
	10	203689	S804S-UCK10	2CCS864001R1427	0.98	1
	13	203696	S804S-UCK13	2CCS864001R1447	0.98	1
	16	203702	S804S-UCK16	2CCS864001R1467	0.98	1
	20	203719	S804S-UCK20	2CCS864001R1487	0.98	1
	25	203726	S804S-UCK25	2CCS864001R1517	0.98	1
	32	203733	S804S-UCK32	2CCS864001R1537	0.98	1
	40	203740	S804S-UCK40	2CCS864001R1557	0.98	1
	50	203757	S804S-UCK50	2CCS864001R1577	0.98	1
	63	203764	S804S-UCK63	2CCS864001R1597	0.98	1
	80	203771	S804S-UCK80	2CCS864001R1627	0.98	1
	100	203788	S804S-UCK100	2CCS864001R1637	0.98	1
	125	203795	S804S-UCK125	2CCS864001R1647	0.98	1

*For DC applications

High performance MCBs

S800S series DC range with ring terminal connection, UC-K characteristic

S800S-UCK characteristic
Function: protection and control of the circuits like motors, transformer and auxiliary circuits, against overloads and short-circuits when a high breaking capacity is required; very useful when selectivity is needed vs an MCCB or back-up vs other MCBs wired downstream; version dedicated to application in direct current circuits.
Advantages: no nuisance tripping in the case of functional peak currents up to 10xIn, depending on the series; through its highly sensitive thermostatic bimetal trip, the K-type characteristic offers protection to damageable elements in the overcurrent range; it also provides the best protection to cables and lines.
Applications: commercial and industrial.
Standard: IEC/EN 60947-2
Icu=50 kA



S801S



S802S

Number of poles	Rated current In A	Bbn 7612271 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
1	10	210595	S801S-UCK10-R	2CCS861002R1427		0.245	1
	13	210601	S801S-UCK13-R	2CCS861002R1447		0.245	1
	16	210618	S801S-UCK16-R	2CCS861002R1467		0.245	1
	20	210625	S801S-UCK20-R	2CCS861002R1487		0.245	1
	25	210632	S801S-UCK25-R	2CCS861002R1517		0.245	1
	32	210649	S801S-UCK32-R	2CCS861002R1537		0.245	1
	40	208660	S801S-UCK40-R	2CCS861002R1557		0.245	1
	50	208677	S801S-UCK50-R	2CCS861002R1577		0.245	1
	63	208684	S801S-UCK63-R	2CCS861002R1597		0.245	1
	80	208691	S801S-UCK80-R	2CCS861002R1627		0.245	1
	100	208707	S801S-UCK100-R	2CCS861002R1637		0.245	1
	125	208714	S801S-UCK125-R	2CCS861002R1647		0.245	1
2	10	210656	S802S-UCK10-R	2CCS862002R1427		0.490	1
	13	210663	S802S-UCK13-R	2CCS862002R1447		0.490	1
	16	210670	S802S-UCK16-R	2CCS862002R1467		0.490	1
	20	210687	S802S-UCK20-R	2CCS862002R1487		0.490	1
	25	210694	S802S-UCK25-R	2CCS862002R1517		0.490	1
	32	210700	S802S-UCK32-R	2CCS862002R1537		0.490	1
	40	208721	S802S-UCK40-R	2CCS862002R1557		0.490	1
	50	208738	S802S-UCK50-R	2CCS862002R1577		0.490	1
	63	208745	S802S-UCK63-R	2CCS862002R1597		0.490	1
	80	208752	S802S-UCK80-R	2CCS862002R1627		0.490	1
	100	208769	S802S-UCK100-R	2CCS862002R1637		0.490	1
	125	208776	S802S-UCK125-R	2CCS862002R1647		0.490	1

High performance MCBs

S800S series DC range with ring terminal connection, UC-K characteristic



S803S



S804S

Number of poles	Rated current In A	Bbn 7612271 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	10	210717	S803S-UCK10-R	2CCS863002R1427		0.735	1
	13	210724	S803S-UCK13-R	2CCS863002R1447		0.735	1
	16	210731	S803S-UCK16-R	2CCS863002R1467		0.735	1
	20	210748	S803S-UCK20-R	2CCS863002R1487		0.735	1
	25	210755	S803S-UCK25-R	2CCS863002R1517		0.735	1
	32	210762	S803S-UCK32-R	2CCS863002R1537		0.735	1
	40	208783	S803S-UCK40-R	2CCS863002R1557		0.735	1
	50	208790	S803S-UCK50-R	2CCS863002R1577		0.735	1
	63	208806	S803S-UCK63-R	2CCS863002R1597		0.735	1
	80	208813	S803S-UCK80-R	2CCS863002R1627		0.735	1
	100	208820	S803S-UCK100-R	2CCS863002R1637		0.735	1
	125	208837	S803S-UCK125-R	2CCS863002R1647		0.735	1
4	10	210779	S804S-UCK10-R	2CCS864002R1427		0.98	1
	13	210786	S804S-UCK13-R	2CCS864002R1447		0.98	1
	16	210793	S804S-UCK16-R	2CCS864002R1467		0.98	1
	20	210809	S804S-UCK20-R	2CCS864002R1487		0.98	1
	25	210816	S804S-UCK25-R	2CCS864002R1517		0.98	1
	32	210823	S804S-UCK32-R	2CCS864002R1537		0.98	1
	40	208844	S804S-UCK40-R	2CCS864002R1557		0.98	1
	50	208851	S804S-UCK50-R	2CCS864002R1577		0.98	1
	63	208868	S804S-UCK63-R	2CCS864002R1597		0.98	1
	80	208875	S804S-UCK80-R	2CCS864002R1627		0.98	1
	100	208882	S804S-UCK100-R	2CCS864002R1637		0.98	1
	125	208899	S804S-UCK125-R	2CCS864002R1647		0.98	1

High performance MCBs

S800N series with cage terminal, B characteristic

S800N-B characteristic

Function: protection and control of the circuits against overloads and short-circuits when a high breaking capacity is required; protection for people and big length cables in TN and IT systems; very useful when selectivity is needed vs an MCCB or back-up vs other MCBs wired downstream.

Applications: commercial and industrial.

Standard: IEC/EN 60898, IEC/EN 60947-2

Icn=20 kA (10 ... 80 A)

Icu=36 kA



S801N



S802N

Number of poles	Rated current [A]	GTIN EAN 7612271	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
1	6	408428	S801N-B6	2CCS891001R0065	0.24	1
	8	411640	S801N-B8	2CCS891001R0085	0.24	1
	10	203801	S801N-B10	2CCS891001R0105	0.24	1
	13	203818	S801N-B13	2CCS891001R0135	0.24	1
	16	203825	S801N-B16	2CCS891001R0165	0.24	1
	20	203832	S801N-B20	2CCS891001R0205	0.24	1
	25	203849	S801N-B25	2CCS891001R0255	0.24	1
	32	203856	S801N-B32	2CCS891001R0325	0.24	1
	40	203863	S801N-B40	2CCS891001R0405	0.24	1
	50	203870	S801N-B50	2CCS891001R0505	0.24	1
	63	203887	S801N-B63	2CCS891001R0635	0.24	1
	80	203894	S801N-B80	2CCS891001R0805	0.24	1
	100	203900	S801N-B100	2CCS891001R0825	0.24	1
	125	203917	S801N-B125	2CCS891001R0845	0.24	1
2	6	408435	S802N-B6	2CCS892001R0065	0.48	1
	8	411657	S802N-B8	2CCS892001R0085	0.48	1
	10	203924	S802N-B10	2CCS892001R0105	0.48	1
	13	203931	S802N-B13	2CCS892001R0135	0.48	1
	16	203948	S802N-B16	2CCS892001R0165	0.48	1
	20	203955	S802N-B20	2CCS892001R0205	0.48	1
	25	203962	S802N-B25	2CCS892001R0255	0.48	1
	32	203979	S802N-B32	2CCS892001R0325	0.48	1
	40	203986	S802N-B40	2CCS892001R0405	0.48	1
	50	203993	S802N-B50	2CCS892001R0505	0.48	1
	63	204006	S802N-B63	2CCS892001R0635	0.48	1
	80	204013	S802N-B80	2CCS892001R0805	0.48	1
	100	204020	S802N-B100	2CCS892001R0825	0.48	1
	125	204037	S802N-B125	2CCS892001R0845	0.48	1

High performance MCBs

S800N series with cage terminal, B characteristic



S803N



S804N

Number of poles	Rated current [A]	GTIN EAN 7612271	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
3	6	408442	S803N-B6	2CCS893001R0065	0.72	1
	8	411664	S803N-B8	2CCS893001R0085	0.72	1
	10	204044	S803N-B10	2CCS893001R0105	0.72	1
	13	204051	S803N-B13	2CCS893001R0135	0.72	1
	16	204068	S803N-B16	2CCS893001R0165	0.72	1
	20	204075	S803N-B20	2CCS893001R0205	0.72	1
	25	204082	S803N-B25	2CCS893001R0255	0.72	1
	32	204099	S803N-B32	2CCS893001R0325	0.72	1
	40	204105	S803N-B40	2CCS893001R0405	0.72	1
	50	204112	S803N-B50	2CCS893001R0505	0.72	1
	63	204129	S803N-B63	2CCS893001R0635	0.72	1
	80	204136	S803N-B80	2CCS893001R0805	0.72	1
	100	204143	S803N-B100	2CCS893001R0825	0.72	1
	125	204150	S803N-B125	2CCS893001R0845	0.72	1
4	6	408459	S804N-B6	2CCS894001R0065	0.96	1
	8	411671	S804N-B8	2CCS894001R0085	0.96	1
	10	204167	S804N-B10	2CCS894001R0105	0.96	1
	13	204174	S804N-B13	2CCS894001R0135	0.96	1
	16	204181	S804N-B16	2CCS894001R0165	0.96	1
	20	204198	S804N-B20	2CCS894001R0205	0.96	1
	25	204204	S804N-B25	2CCS894001R0255	0.96	1
	32	204211	S804N-B32	2CCS894001R0325	0.96	1
	40	204228	S804N-B40	2CCS894001R0405	0.96	1
	50	204235	S804N-B50	2CCS894001R0505	0.96	1
	63	204242	S804N-B63	2CCS894001R0635	0.96	1
	80	204259	S804N-B80	2CCS894001R0805	0.96	1
	100	204266	S804N-B100	2CCS894001R0825	0.96	1
	125	204273	S804N-B125	2CCS894001R0845	0.96	1

High performance MCBs

S800N series with cage terminal, C characteristic



S801N



S802N

S800N-C characteristic

Function: protection and control of the circuits against overloads and short-circuits when a high breaking capacity is required; protection for resistive and inductive loads with low inrush current; very useful when selectivity is needed vs an MCCB or back-up vs other MCBs wired downstream.

Applications: commercial and industrial.

Standard: IEC/EN 60898, IEC/EN 60947-2

Icn=20 kA (10 ... 80 A)

Icu=36 kA

Number of poles	Rated current [A]	GTIN EAN 7612271	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
1	6	408466	S801N-C6	2CCS891001R0064	0.24	1
	8	411688	S801N-C8	2CCS891001R0084	0.24	1
	10	204280	S801N-C10	2CCS891001R0104	0.24	1
	13	204297	S801N-C13	2CCS891001R0134	0.24	1
	16	204303	S801N-C16	2CCS891001R0164	0.24	1
	20	204310	S801N-C20	2CCS891001R0204	0.24	1
	25	204327	S801N-C25	2CCS891001R0254	0.24	1
	32	204334	S801N-C32	2CCS891001R0324	0.24	1
	40	204341	S801N-C40	2CCS891001R0404	0.24	1
	50	204358	S801N-C50	2CCS891001R0504	0.24	1
	63	204365	S801N-C63	2CCS891001R0634	0.24	1
	80	204372	S801N-C80	2CCS891001R0804	0.24	1
	100	204389	S801N-C100	2CCS891001R0824	0.24	1
	125	204396	S801N-C125	2CCS891001R0844	0.24	1
2	6	408473	S802N-C6	2CCS892001R0064	0.48	1
	8	411695	S802N-C8	2CCS892001R0084	0.48	1
	10	204402	S802N-C10	2CCS892001R0104	0.48	1
	13	204419	S802N-C13	2CCS892001R0134	0.48	1
	16	204426	S802N-C16	2CCS892001R0164	0.48	1
	20	204433	S802N-C20	2CCS892001R0204	0.48	1
	25	204440	S802N-C25	2CCS892001R0254	0.48	1
	32	204457	S802N-C32	2CCS892001R0324	0.48	1
	40	204464	S802N-C40	2CCS892001R0404	0.48	1
	50	204471	S802N-C50	2CCS892001R0504	0.48	1
	63	204488	S802N-C63	2CCS892001R0634	0.48	1
	80	204495	S802N-C80	2CCS892001R0804	0.48	1
	100	204501	S802N-C100	2CCS892001R0824	0.48	1
	125	204518	S802N-C125	2CCS892001R0844	0.48	1

High performance MCBs

S800N series with cage terminal, C characteristic



S803N



S804N

Number of poles	Rated current [A]	GTIN EAN 7612271	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
3	6	408480	S803N-C6	2CCS893001R0064	0.72	1
	8	411701	S803N-C8	2CCS893001R0084	0.72	1
	10	204525	S803N-C10	2CCS893001R0104	0.72	1
	13	204532	S803N-C13	2CCS893001R0134	0.72	1
	16	204549	S803N-C16	2CCS893001R0164	0.72	1
	20	204556	S803N-C20	2CCS893001R0204	0.72	1
	25	204563	S803N-C25	2CCS893001R0254	0.72	1
	32	204570	S803N-C32	2CCS893001R0324	0.72	1
	40	204587	S803N-C40	2CCS893001R0404	0.72	1
	50	204594	S803N-C50	2CCS893001R0504	0.72	1
	63	204600	S803N-C63	2CCS893001R0634	0.72	1
	80	204617	S803N-C80	2CCS893001R0804	0.72	1
	100	204624	S803N-C100	2CCS893001R0824	0.72	1
	125	204631	S803N-C125	2CCS893001R0844	0.72	1
4	6	408497	S804N-C6	2CCS894001R0064	0.96	1
	8	411718	S804N-C8	2CCS894001R0084	0.96	1
	10	204648	S804N-C10	2CCS894001R0104	0.96	1
	13	204655	S804N-C13	2CCS894001R0134	0.96	1
	16	204662	S804N-C16	2CCS894001R0164	0.96	1
	20	204679	S804N-C20	2CCS894001R0204	0.96	1
	25	204686	S804N-C25	2CCS894001R0254	0.96	1
	32	204693	S804N-C32	2CCS894001R0324	0.96	1
	40	204709	S804N-C40	2CCS894001R0404	0.96	1
	50	204716	S804N-C50	2CCS894001R0504	0.96	1
	63	204723	S804N-C63	2CCS894001R0634	0.96	1
	80	204730	S804N-C80	2CCS894001R0804	0.96	1
	100	204747	S804N-C100	2CCS894001R0824	0.96	1
	125	204754	S804N-C125	2CCS894001R0844	0.96	1

High performance MCBs

S800N series with cage terminal, D characteristic



S801N



S802N



S803N

S800N-D characteristic

Function: protection and control of the circuits against overloads and short-circuits when a high breaking capacity is required; protection for circuits which supply loads with high inrush current at the circuit closing (motors, LV / LV transformers, breakdown lamps); very useful when selectivity is needed vs an MCCB or back-up vs other MCBs wired downstream.

Applications: commercial and industrial.

Standard: IEC/EN 60898, IEC/EN 60947-2

Icn=20 kA (10 ... 80 A)

Icu=36 kA

Number of poles	Rated current [A]	GTIN EAN 7612271	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
1	6	408503	S801N-D6	2CCS891001R0061	0.24	1
	8	411725	S801N-D8	2CCS891001R0081	0.24	1
	10	204761	S801N-D10	2CCS891001R0101	0.24	1
	13	204778	S801N-D13	2CCS891001R0131	0.24	1
	16	204785	S801N-D16	2CCS891001R0161	0.24	1
	20	204792	S801N-D20	2CCS891001R0201	0.24	1
	25	204808	S801N-D25	2CCS891001R0251	0.24	1
	32	204815	S801N-D32	2CCS891001R0321	0.24	1
	40	204822	S801N-D40	2CCS891001R0401	0.24	1
	50	204839	S801N-D50	2CCS891001R0501	0.24	1
	63	204846	S801N-D63	2CCS891001R0631	0.24	1
	80	204853	S801N-D80	2CCS891001R0801	0.24	1
	100	204860	S801N-D100	2CCS891001R0821	0.24	1
	125	204877	S801N-D125	2CCS891001R0841	0.24	1
2	6	408510	S802N-D6	2CCS892001R0061	0.49	1
	8	411732	S802N-D8	2CCS892001R0081	0.49	1
	10	204884	S802N-D10	2CCS892001R0101	0.49	1
	13	204891	S802N-D13	2CCS892001R0131	0.49	1
	16	204907	S802N-D16	2CCS892001R0161	0.49	1
	20	204914	S802N-D20	2CCS892001R0201	0.49	1
	25	204921	S802N-D25	2CCS892001R0251	0.49	1
	32	204938	S802N-D32	2CCS892001R0321	0.49	1
	40	204945	S802N-D40	2CCS892001R0401	0.49	1
	50	204952	S802N-D50	2CCS892001R0501	0.49	1
	63	204969	S802N-D63	2CCS892001R0631	0.49	1
	80	204976	S802N-D80	2CCS892001R0801	0.49	1
	100	204983	S802N-D100	2CCS892001R0821	0.49	1
	125	204990	S802N-D125	2CCS892001R0841	0.49	1
3	6	408527	S803N-D6	2CCS893001R0061	0.74	1
	8	411749	S803N-D8	2CCS893001R0081	0.74	1
	10	205003	S803N-D10	2CCS893001R0101	0.74	1
	13	205010	S803N-D13	2CCS893001R0131	0.74	1
	16	205027	S803N-D16	2CCS893001R0161	0.74	1
	20	205034	S803N-D20	2CCS893001R0201	0.74	1
	25	205041	S803N-D25	2CCS893001R0251	0.74	1
	32	205058	S803N-D32	2CCS893001R0321	0.74	1
	40	205065	S803N-D40	2CCS893001R0401	0.74	1
	50	205072	S803N-D50	2CCS893001R0501	0.74	1
	63	205089	S803N-D63	2CCS893001R0631	0.74	1
	80	205096	S803N-D80	2CCS893001R0801	0.74	1
	100	205102	S803N-D100	2CCS893001R0821	0.74	1
	125	205119	S803N-D125	2CCS893001R0841	0.74	1

High performance MCBs

S800N series with cage terminal, D characteristic



S804N

Number of poles	Rated current [A]	GTIN EAN 7612271	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
4	6	408534	S804N-D6	2CCS894001R0061	0.98	1
	8	411756	S804N-D8	2CCS894001R0081	0.98	1
	10	205126	S804N-D10	2CCS894001R0101	0.98	1
	13	205133	S804N-D13	2CCS894001R0131	0.98	1
	16	205140	S804N-D16	2CCS894001R0161	0.98	1
	20	205157	S804N-D20	2CCS894001R0201	0.98	1
	25	205164	S804N-D25	2CCS894001R0251	0.98	1
	32	205171	S804N-D32	2CCS894001R0321	0.98	1
	40	205188	S804N-D40	2CCS894001R0401	0.98	1
	50	205195	S804N-D50	2CCS894001R0501	0.98	1
	63	205201	S804N-D63	2CCS894001R0631	0.98	1
	80	205218	S804N-D80	2CCS894001R0801	0.98	1
	100	205225	S804N-D100	2CCS894001R0821	0.98	1
	125	205232	S804N-D125	2CCS894001R0841	0.98	1

High performance MCBs

S800C series with cage terminal, B characteristic



S801C



S802C



S803C



S804C

S800C-B characteristic

Function: protection and control of the circuits against overloads and short-circuits when a high breaking capacity is required; protection for people and big length cables in TN and IT systems; very useful when selectivity is needed vs an MCCB or back-up vs other MCBs wired downstream.

Applications: commercial and industrial.

Standard: IEC/EN 60947-2, IEC/EN 60898, UL 1077, supplementary protector

Icn=15 kA

Icu=25 kA

Number of poles	Rated current [A]	GTIN EAN 76122712	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
1	10	12087	S801C-B10	2CCS881001R0105	0.25	1
	13	12247	S801C-B13	2CCS881001R0135	0.25	1
	16	12407	S801C-B16	2CCS881001R0165	0.25	1
	20	12568	S801C-B20	2CCS881001R0205	0.25	1
	25	12728	S801C-B25	2CCS881001R0255	0.25	1
	32	12889	S801C-B32	2CCS881001R0325	0.25	1
	40	13046	S801C-B40	2CCS881001R0405	0.25	1
	50	13206	S801C-B50	2CCS881001R0505	0.25	1
	63	13367	S801C-B63	2CCS881001R0635	0.25	1
	80	13527	S801C-B80	2CCS881001R0805	0.25	1
	100	13688	S801C-B100	2CCS881001R0825	0.25	1
	125	13848	S801C-B125	2CCS881001R0845	0.25	1
2	10	12094	S802C-B10	2CCS882001R0105	0.49	1
	13	12254	S802C-B13	2CCS882001R0135	0.49	1
	16	12414	S802C-B16	2CCS882001R0165	0.49	1
	20	12575	S802C-B20	2CCS882001R0205	0.49	1
	25	12735	S802C-B25	2CCS882001R0255	0.49	1
	32	12896	S802C-B32	2CCS882001R0325	0.49	1
	40	13053	S802C-B40	2CCS882001R0405	0.49	1
	50	13213	S802C-B50	2CCS882001R0505	0.49	1
	63	13374	S802C-B63	2CCS882001R0635	0.49	1
	80	13534	S802C-B80	2CCS882001R0805	0.49	1
	100	13695	S802C-B100	2CCS882001R0825	0.49	1
	125	13855	S802C-B125	2CCS882001R0845	0.49	1
3	10	12100	S803C-B10	2CCS883001R0105	0.74	1
	13	12261	S803C-B13	2CCS883001R0135	0.74	1
	16	12421	S803C-B16	2CCS883001R0165	0.74	1
	20	12582	S803C-B20	2CCS883001R0205	0.74	1
	25	12742	S803C-B25	2CCS883001R0255	0.74	1
	32	12902	S803C-B32	2CCS883001R0325	0.74	1
	40	13060	S803C-B40	2CCS883001R0405	0.74	1
	50	13220	S803C-B50	2CCS883001R0505	0.74	1
	63	13381	S803C-B63	2CCS883001R0635	0.74	1
	80	13541	S803C-B80	2CCS883001R0805	0.74	1
	100	13701	S803C-B100	2CCS883001R0825	0.74	1
	125	13862	S803C-B125	2CCS883001R0845	0.74	1
4	10	12117	S804C-B10	2CCS884001R0105	0.98	1
	13	12278	S804C-B13	2CCS884001R0135	0.98	1
	16	12438	S804C-B16	2CCS884001R0165	0.98	1
	20	12599	S804C-B20	2CCS884001R0205	0.98	1
	25	12759	S804C-B25	2CCS884001R0255	0.98	1
	32	12919	S804C-B32	2CCS884001R0325	0.98	1
	40	13077	S804C-B40	2CCS884001R0405	0.98	1
	50	13237	S804C-B50	2CCS884001R0505	0.98	1
	63	13398	S804C-B63	2CCS884001R0635	0.98	1
	80	13558	S804C-B80	2CCS884001R0805	0.98	1
	100	13718	S804C-B100	2CCS884001R0825	0.98	1
	125	13879	S804C-B125	2CCS884001R0845	0.98	1

High performance MCBs

S800C series with cage terminal, C characteristic



S801C



S802C



S803C



S804C

S800C-C characteristic

Function: protection and control of the circuits against overloads and short-circuits when a high breaking capacity is required; protection for people and big length cables in TN and IT systems; very useful when selectivity is needed vs an MCCB or back-up vs other MCBs wired downstream.

Applications: commercial and industrial.

Standard: IEC/EN 60947-2, IEC/EN 60898, UL 1077, supplementary protector

Icn=15 kA

Icu=25 kA

Number of poles	Rated current [A]	GTIN EAN 76122712	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
1	10	12124	S801C-C10	2CCS881001R0104	0.25	1
	13	12285	S801C-C13	2CCS881001R0134	0.25	1
	16	12445	S801C-C16	2CCS881001R0164	0.25	1
	20	12605	S801C-C20	2CCS881001R0204	0.25	1
	25	12766	S801C-C25	2CCS881001R0254	0.25	1
	32	12926	S801C-C32	2CCS881001R0324	0.25	1
	40	13084	S801C-C40	2CCS881001R0404	0.25	1
	50	13244	S801C-C50	2CCS881001R0504	0.25	1
	63	13404	S801C-C63	2CCS881001R0634	0.25	1
	80	13565	S801C-C80	2CCS881001R0804	0.25	1
	100	13725	S801C-C100	2CCS881001R0824	0.25	1
	125	13886	S801C-C125	2CCS881001R0844	0.25	1
2	10	12131	S802C-C10	2CCS882001R0104	0.49	1
	13	12292	S802C-C13	2CCS882001R0134	0.49	1
	16	12452	S802C-C16	2CCS882001R0164	0.49	1
	20	12612	S802C-C20	2CCS882001R0204	0.49	1
	25	12773	S802C-C25	2CCS882001R0254	0.49	1
	32	12933	S802C-C32	2CCS882001R0324	0.49	1
	40	13091	S802C-C40	2CCS882001R0404	0.49	1
	50	13251	S802C-C50	2CCS882001R0504	0.49	1
	63	13411	S802C-C63	2CCS882001R0634	0.49	1
	80	13572	S802C-C80	2CCS882001R0804	0.49	1
	100	13732	S802C-C100	2CCS882001R0824	0.49	1
	125	13893	S802C-C125	2CCS882001R0844	0.49	1
3	10	12148	S803C-C10	2CCS883001R0104	0.74	1
	13	12308	S803C-C13	2CCS883001R0134	0.74	1
	16	12469	S803C-C16	2CCS883001R0164	0.74	1
	20	12629	S803C-C20	2CCS883001R0204	0.74	1
	25	12780	S803C-C25	2CCS883001R0254	0.74	1
	32	12940	S803C-C32	2CCS883001R0324	0.74	1
	40	13107	S803C-C40	2CCS883001R0404	0.74	1
	50	13268	S803C-C50	2CCS883001R0504	0.74	1
	63	13428	S803C-C63	2CCS883001R0634	0.74	1
	80	13589	S803C-C80	2CCS883001R0804	0.74	1
	100	13749	S803C-C100	2CCS883001R0824	0.74	1
	125	13909	S803C-C125	2CCS883001R0844	0.74	1
4	10	12155	S804C-C10	2CCS884001R0104	0.98	1
	13	12315	S804C-C13	2CCS884001R0134	0.98	1
	16	12476	S804C-C16	2CCS884001R0164	0.98	1
	20	12636	S804C-C20	2CCS884001R0204	0.98	1
	25	12797	S804C-C25	2CCS884001R0254	0.98	1
	32	12957	S804C-C32	2CCS884001R0324	0.98	1
	40	13114	S804C-C40	2CCS884001R0404	0.98	1
	50	13275	S804C-C50	2CCS884001R0504	0.98	1
	63	13435	S804C-C63	2CCS884001R0634	0.98	1
	80	13596	S804C-C80	2CCS884001R0804	0.98	1
	100	13756	S804C-C100	2CCS884001R0824	0.98	1
	125	13916	S804C-C125	2CCS884001R0844	0.98	1

High performance MCBs

S800C series with cage terminal, D characteristic



S801C



S802C



S803C



S804C

S800C-D characteristic

Function: protection and control of the circuits against overloads and short-circuits when a high breaking capacity is required; protection for people and big length cables in TN and IT systems; very useful when selectivity is needed vs an MCCB or back-up vs other MCBs wired downstream.

Applications: commercial and industrial.

Standard: IEC/EN 60947-2, IEC/EN 60898, UL 1077, supplementary protector

Icn=15kA

Icu=25 kA

Number of poles	Rated current [A]	GTIN EAN 76122712	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
1	10	12162	S801C-D10	2CCS881001R0101	0.25	1
	13	12322	S801C-D13	2CCS881001R0131	0.25	1
	16	12483	S801C-D16	2CCS881001R0161	0.25	1
	20	12643	S801C-D20	2CCS881001R0201	0.25	1
	25	12803	S801C-D25	2CCS881001R0251	0.25	1
	32	12964	S801C-D32	2CCS881001R0321	0.25	1
	40	13121	S801C-D40	2CCS881001R0401	0.25	1
	50	13282	S801C-D50	2CCS881001R0501	0.25	1
	63	13442	S801C-D63	2CCS881001R0631	0.25	1
	80	13602	S801C-D80	2CCS881001R0801	0.25	1
	100	13763	S801C-D100	2CCS881001R0821	0.25	1
	125	13923	S801C-D125	2CCS881001R0841	0.25	1
2	10	12179	S802C-D10	2CCS882001R0101	0.49	1
	13	12339	S802C-D13	2CCS882001R0131	0.49	1
	16	12490	S802C-D16	2CCS882001R0161	0.49	1
	20	12650	S802C-D20	2CCS882001R0201	0.49	1
	25	12810	S802C-D25	2CCS882001R0251	0.49	1
	32	12971	S802C-D32	2CCS882001R0321	0.49	1
	40	13138	S802C-D40	2CCS882001R0401	0.49	1
	50	13299	S802C-D50	2CCS882001R0501	0.49	1
	63	13459	S802C-D63	2CCS882001R0631	0.49	1
	80	13619	S802C-D80	2CCS882001R0801	0.49	1
	100	13770	S802C-D100	2CCS882001R0821	0.49	1
	125	13930	S802C-D125	2CCS882001R0841	0.49	1
3	10	12186	S803C-D10	2CCS883001R0101	0.74	1
	13	12346	S803C-D13	2CCS883001R0131	0.74	1
	16	12506	S803C-D16	2CCS883001R0161	0.74	1
	20	12667	S803C-D20	2CCS883001R0201	0.74	1
	25	12827	S803C-D25	2CCS883001R0251	0.74	1
	32	12988	S803C-D32	2CCS883001R0321	0.74	1
	40	13145	S803C-D40	2CCS883001R0401	0.74	1
	50	13305	S803C-D50	2CCS883001R0501	0.74	1
	63	13466	S803C-D63	2CCS883001R0631	0.74	1
	80	13626	S803C-D80	2CCS883001R0801	0.74	1
	100	13787	S803C-D100	2CCS883001R0821	0.74	1
	125	13947	S803C-D125	2CCS883001R0841	0.74	1
4	10	12193	S804C-D10	2CCS884001R0101	0.98	1
	13	12353	S804C-D13	2CCS884001R0131	0.98	1
	16	12513	S804C-D16	2CCS884001R0161	0.98	1
	20	12674	S804C-D20	2CCS884001R0201	0.98	1
	25	12834	S804C-D25	2CCS884001R0251	0.98	1
	32	12995	S804C-D32	2CCS884001R0321	0.98	1
	40	13152	S804C-D40	2CCS884001R0401	0.98	1
	50	13312	S804C-D50	2CCS884001R0501	0.98	1
	63	13473	S804C-D63	2CCS884001R0631	0.98	1
	80	13633	S804C-D80	2CCS884001R0801	0.98	1
	100	13794	S804C-D100	2CCS884001R0821	0.98	1
	125	13954	S804C-D125	2CCS884001R0841	0.98	1

High performance MCBs

S800C series with cage terminal, K characteristic



S801C



S802C



S803C



S804C

S800C-K characteristic

Function: protection and control of the circuits against overloads and short-circuits when a high breaking capacity is required; protection for people and big length cables in TN and IT systems; very useful when selectivity is needed vs an MCCB or back-up vs other MCBs wired downstream.

Applications: commercial and industrial.

Standard: IEC/EN 60947-2, UL 1077, supplementary protector

Icu=25 kA

Number of poles	Rated current [A]	GTIN EAN 76122712	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
1	10	12209	S801C-K10	2CCS881001R0427	0.25	1
	13	12360	S801C-K13	2CCS881001R0447	0.25	1
	16	12520	S801C-K16	2CCS881001R0467	0.25	1
	20	12681	S801C-K20	2CCS881001R0487	0.25	1
	25	12841	S801C-K25	2CCS881001R0517	0.25	1
	32	13008	S801C-K32	2CCS881001R0537	0.25	1
	40	13169	S801C-K40	2CCS881001R0557	0.25	1
	50	13329	S801C-K50	2CCS881001R0577	0.25	1
	63	13480	S801C-K63	2CCS881001R0597	0.25	1
	80	13640	S801C-K80	2CCS881001R0627	0.25	1
	100	13800	S801C-K100	2CCS881001R0637	0.25	1
	125	13961	S801C-K125	2CCS881001R0647	0.25	1
2	10	12216	S802C-K10	2CCS882001R0427	0.49	1
	13	12377	S802C-K13	2CCS882001R0447	0.49	1
	16	12537	S802C-K16	2CCS882001R0467	0.49	1
	20	12698	S802C-K20	2CCS882001R0487	0.49	1
	25	12858	S802C-K25	2CCS882001R0517	0.49	1
	32	13015	S802C-K32	2CCS882001R0537	0.49	1
	40	13176	S802C-K40	2CCS882001R0557	0.49	1
	50	13336	S802C-K50	2CCS882001R0577	0.49	1
	63	13497	S802C-K63	2CCS882001R0597	0.49	1
	80	13657	S802C-K80	2CCS882001R0627	0.49	1
	100	13817	S802C-K100	2CCS882001R0637	0.49	1
	125	13978	S802C-K125	2CCS882001R0647	0.49	1
3	10	12223	S803C-K10	2CCS883001R0427	0.74	1
	13	12384	S803C-K13	2CCS883001R0447	0.74	1
	16	12544	S803C-K16	2CCS883001R0467	0.74	1
	20	12704	S803C-K20	2CCS883001R0487	0.74	1
	25	12865	S803C-K25	2CCS883001R0517	0.74	1
	32	13022	S803C-K32	2CCS883001R0537	0.74	1
	40	13183	S803C-K40	2CCS883001R0557	0.74	1
	50	13343	S803C-K50	2CCS883001R0577	0.74	1
	63	13503	S803C-K63	2CCS883001R0597	0.74	1
	80	13664	S803C-K80	2CCS883001R0627	0.74	1
	100	13824	S803C-K100	2CCS883001R0637	0.74	1
	125	13985	S803C-K125	2CCS883001R0647	0.74	1
4	10	12230	S804C-K10	2CCS884001R0427	0.98	1
	13	12391	S804C-K13	2CCS884001R0447	0.98	1
	16	12551	S804C-K16	2CCS884001R0467	0.98	1
	20	12711	S804C-K20	2CCS884001R0487	0.98	1
	25	12872	S804C-K25	2CCS884001R0517	0.98	1
	32	13039	S804C-K32	2CCS884001R0537	0.98	1
	40	13190	S804C-K40	2CCS884001R0557	0.98	1
	50	13350	S804C-K50	2CCS884001R0577	0.98	1
	63	13510	S804C-K63	2CCS884001R0597	0.98	1
	80	13671	S804C-K80	2CCS884001R0627	0.98	1
	100	13831	S804C-K100	2CCS884001R0637	0.98	1
	125	13992	S804C-K125	2CCS884001R0647	0.98	1

High performance MCBs

S800B series with cage terminal, B characteristic



S801B



S802B



S803B



S804B

S800B-B characteristic

Function: protection and control of the circuits against overloads and short-circuits. With its lower breaking capacity it is designed to meet the needs of the sub-distributions.
For motor starter applications ABB recommends to use S800S, S800N or S800C.
Applications: commercial and industrial.
Standard: IEC/EN 60947-2, EN 60898
Icn=10kA
Icu=16 kA

Number of poles	Rated current [A]	GTIN EAN 76122714	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
1	32	15303	S801B-B32	2CCS811001R0325	0.24	1
	40	16539	S801B-B40	2CCS811001R0405	0.24	1
	50	16577	S801B-B50	2CCS811001R0505	0.24	1
	63	16614	S801B-B63	2CCS811001R0635	0.24	1
	80	16652	S801B-B80	2CCS811001R0805	0.24	1
	100	16690	S801B-B100	2CCS811001R0825	0.24	1
	125	16737	S801B-B125	2CCS811001R0845	0.24	1
2	32	16508	S802B-B32	2CCS812001R0325	0.49	1
	40	16546	S802B-B40	2CCS812001R0405	0.49	1
	50	16584	S802B-B50	2CCS812001R0505	0.49	1
	63	16621	S802B-B63	2CCS812001R0635	0.49	1
	80	16669	S802B-B80	2CCS812001R0805	0.49	1
	100	16706	S802B-B100	2CCS812001R0825	0.49	1
	125	16744	S802B-B125	2CCS812001R0845	0.49	1
3	32	16515	S803B-B32	2CCS813001R0325	0.74	1
	40	16553	S803B-B40	2CCS813001R0405	0.74	1
	50	16591	S803B-B50	2CCS813001R0505	0.74	1
	63	16638	S803B-B63	2CCS813001R0635	0.74	1
	80	16676	S803B-B80	2CCS813001R0805	0.74	1
	100	16713	S803B-B100	2CCS813001R0825	0.74	1
	125	16751	S803B-B125	2CCS813001R0845	0.74	1
4	32	16522	S804B-B32	2CCS814001R0325	0.98	1
	40	16560	S804B-B40	2CCS814001R0405	0.98	1
	50	16607	S804B-B50	2CCS814001R0505	0.98	1
	63	16645	S804B-B63	2CCS814001R0635	0.98	1
	80	16683	S804B-B80	2CCS814001R0805	0.98	1
	100	16720	S804B-B100	2CCS814001R0825	0.98	1
	125	16768	S804B-B125	2CCS814001R0845	0.98	1

High performance MCBs

S800B series with cage terminal, C characteristic



S801B



S802B



S803B



S804B

S800B-C characteristic

Function: protection and control of the circuits against overloads and short-circuits. With its lower breaking capacity it is designed to meet the needs of the sub-distributions.
For motor starter applications ABB recommends to use S800S, S800N or S800C.
Applications: commercial and industrial.
Standard: IEC/EN 60947-2, EN 60898
Icn=10kA
Icu=16 kA

Number of poles	Rated current [A]	GTIN EAN 76122714	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
1	32	16225	S801B-C32	2CCS811001R0324	0.24	1
	40	16263	S801B-C40	2CCS811001R0404	0.24	1
	50	16300	S801B-C50	2CCS811001R0504	0.24	1
	63	16348	S801B-C63	2CCS811001R0634	0.24	1
	80	16386	S801B-C80	2CCS811001R0804	0.24	1
	100	16423	S801B-C100	2CCS811001R0824	0.24	1
	125	16461	S801B-C125	2CCS811001R0844	0.24	1
2	32	16232	S802B-C32	2CCS812001R0324	0.49	1
	40	16270	S802B-C40	2CCS812001R0404	0.49	1
	50	16317	S802B-C50	2CCS812001R0504	0.49	1
	63	16355	S802B-C63	2CCS812001R0634	0.49	1
	80	16393	S802B-C80	2CCS812001R0804	0.49	1
	100	16430	S802B-C100	2CCS812001R0824	0.49	1
	125	16478	S802B-C125	2CCS812001R0844	0.49	1
3	32	16249	S803B-C32	2CCS813001R0324	0.74	1
	40	16287	S803B-C40	2CCS813001R0404	0.74	1
	50	16324	S803B-C50	2CCS813001R0504	0.74	1
	63	16362	S803B-C63	2CCS813001R0634	0.74	1
	80	16409	S803B-C80	2CCS813001R0804	0.74	1
	100	16447	S803B-C100	2CCS813001R0824	0.74	1
	125	16485	S803B-C125	2CCS813001R0844	0.74	1
4	32	16256	S804B-C32	2CCS814001R0324	0.98	1
	40	16294	S804B-C40	2CCS814001R0404	0.98	1
	50	16331	S804B-C50	2CCS814001R0504	0.98	1
	63	16379	S804B-C63	2CCS814001R0634	0.98	1
	80	16416	S804B-C80	2CCS814001R0804	0.98	1
	100	16454	S804B-C100	2CCS814001R0824	0.98	1
	125	16492	S804B-C125	2CCS814001R0844	0.98	1

High performance MCBs

S800B series cage terminal, D characteristic



S801B



S802B



S803B



S804B

S800B-D characteristic

Function: protection and control of the circuits against overloads and short-circuits. With its lower breaking capacity it is designed to meet the needs of the sub-distributions.
For motor starter applications ABB recommends to use S800S, S800N or S800C.
Applications: commercial and industrial.
Standard: IEC/EN 60947-2, EN 60898
Icn=10kA
Icu=16 kA

Number of poles	Rated current [A]	GTIN EAN 76122714	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
1	32	15945	S801B-D32	2CCS811001R0321	0.24	1
	40	15983	S801B-D40	2CCS811001R0401	0.24	1
	50	16027	S801B-D50	2CCS811001R0501	0.24	1
	63	16065	S801B-D63	2CCS811001R0631	0.24	1
	80	16102	S801B-D80	2CCS811001R0801	0.24	1
	100	16140	S801B-D100	2CCS811001R0821	0.24	1
	125	16188	S801B-D125	2CCS811001R0841	0.24	1
2	32	15952	S802B-D32	2CCS812001R0321	0.49	1
	40	15990	S802B-D40	2CCS812001R0401	0.49	1
	50	16034	S802B-D50	2CCS812001R0501	0.49	1
	63	16072	S802B-D63	2CCS812001R0631	0.49	1
	80	16119	S802B-D80	2CCS812001R0801	0.49	1
	100	16157	S802B-D100	2CCS812001R0821	0.49	1
	125	16195	S802B-D125	2CCS812001R0841	0.49	1
3	32	15969	S803B-D32	2CCS813001R0321	0.74	1
	40	16003	S803B-D40	2CCS813001R0401	0.74	1
	50	16041	S803B-D50	2CCS813001R0501	0.74	1
	63	16089	S803B-D63	2CCS813001R0631	0.74	1
	80	16126	S803B-D80	2CCS813001R0801	0.74	1
	100	16164	S803B-D100	2CCS813001R0821	0.74	1
	125	16201	S803B-D125	2CCS813001R0841	0.74	1
4	32	15976	S804B-D32	2CCS814001R0321	0.98	1
	40	16010	S804B-D40	2CCS814001R0401	0.98	1
	50	16058	S804B-D50	2CCS814001R0501	0.98	1
	63	16096	S804B-D63	2CCS814001R0631	0.98	1
	80	16133	S804B-D80	2CCS814001R0801	0.98	1
	100	16171	S804B-D100	2CCS814001R0821	0.98	1
	125	16218	S804B-D125	2CCS814001R0841	0.98	1

High performance MCBs

S800B series with cage terminal, K characteristic



S801B



S802B



S803B



S804B

S800B-K characteristic

Function: protection and control of the circuits against overloads and short-circuits. With its lower breaking capacity it is designed to meet the needs of the sub-distributions.
For motor starter applications ABB recommends to use S800S, S800N or S800C.
Applications: commercial and industrial.
Standard: IEC/EN 60947-2, EN 60898
Icn=10kA
Icu=16 kA

Number of poles	Rated current [A]	GTIN EAN 76122714	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
1	32	15600	S801B-K32	2CCS811001R0537	0.24	1
	40	15723	S801B-K40	2CCS811001R0557	0.24	1
	50	15730	S801B-K50	2CCS811001R0577	0.24	1
	63	15778	S801B-K63	2CCS811001R0597	0.24	1
	80	15815	S801B-K80	2CCS811001R0627	0.24	1
	100	15860	S801B-K100	2CCS811001R0637	0.24	1
	125	15907	S801B-K125	2CCS811001R0647	0.24	1
2	32	15709	S802B-K32	2CCS812001R0537	0.49	1
	40	16775	S802B-K40	2CCS812001R0557	0.49	1
	50	15747	S802B-K50	2CCS812001R0577	0.49	1
	63	15785	S802B-K63	2CCS812001R0597	0.49	1
	80	15822	S802B-K80	2CCS812001R0627	0.49	1
	100	15877	S802B-K100	2CCS812001R0637	0.49	1
	125	15914	S802B-K125	2CCS812001R0647	0.49	1
3	32	15716	S803B-K32	2CCS813001R0537	0.74	1
	40	16799	S803B-K40	2CCS813001R0557	0.74	1
	50	15754	S803B-K50	2CCS813001R0577	0.74	1
	63	15792	S803B-K63	2CCS813001R0597	0.74	1
	80	15846	S803B-K80	2CCS813001R0627	0.74	1
	100	15884	S803B-K100	2CCS813001R0637	0.74	1
	125	15921	S803B-K125	2CCS813001R0647	0.74	1
4	32	16805	S804B-K32	2CCS814001R0537	0.98	1
	40	16812	S804B-K40	2CCS814001R0557	0.98	1
	50	15761	S804B-K50	2CCS814001R0577	0.98	1
	63	15808	S804B-K63	2CCS814001R0597	0.98	1
	80	15853	S804B-K80	2CCS814001R0627	0.98	1
	100	15891	S804B-K100	2CCS814001R0637	0.98	1
	125	15938	S804B-K125	2CCS814001R0647	0.98	1

High performance MCBs

S800HV series for application up to 1000V AC



S801HV



S802HV

S800HV-K characteristics

Function: protection and control of the circuits against overloads and short-circuits.
With its Function: S800HV is designed for voltages up to 580/1000 V AC. Due to the high rated operational voltage, the field of application is wide – from underground mining to distributions on high altitudes.

Applications: Industrial

Standard: IEC/EN 60947-2, UL 1077, supplementary protector

Icu 1.5 kA (0.5...5 A) 4 kA (6 ... 63 A); 3 kA (80 ... 125 A)

Number of poles	Rated current [A]	GTIN EAN 7612271	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
1	0.5	501150	S801HV-K0,5	2CCF020049R0001	0.27	1
	1	501167	S801HV-K1	2CCF020050R0001	0.27	1
	1.6	502423	S801HV-K1,6	2CCF030021R0001	0.27	1
	2	502430	S801HV-K2	2CCF030022R0001	0.27	1
	2.5	502614	S801HV-K2,5	2CCF030030R0001	0.27	1
	3	502447	S801HV-K3	2CCF030023R0001	0.27	1
	4	502454	S801HV-K4	2CCF030024R0001	0.27	1
	5	502621	S801HV-K5	2CCF030031R0001	0.27	1
	6	436445	S801HV-K6	2CCF019005R0001	0.27	1
	8	436964	S801HV-K8	2CCF019006R0001	0.27	1
	10	436452	S801HV-K10	2CCF019007R0001	0.27	1
	13	436469	S801HV-K13	2CCF019008R0001	0.27	1
	16	436476	S801HV-K16	2CCF019009R0001	0.27	1
	20	436483	S801HV-K20	2CCF019010R0001	0.27	1
	25	436490	S801HV-K25	2CCF019011R0001	0.27	1
	32	436605	S801HV-K32	2CCF019012R0001	0.27	1
	40	436612	S801HV-K40	2CCF019013R0001	0.27	1
	50	436629	S801HV-K50	2CCF019014R0001	0.27	1
	63	436636	S801HV-K63	2CCF019015R0001	0.27	1
	80	436643	S801HV-K80	2CCF019016R0001	0.27	1
	100	436650	S801HV-K100	2CCF019017R0001	0.27	1
	125	436667	S801HV-K125	2CCF019018R0001	0.27	1
2	0.5	502461	S802HV-K0,5	2CCF030025R0001	0.54	1
	1	502478	S802HV-K1	2CCF030026R0001	0.54	1
	1.6	502638	S802HV-K1,6	2CCF030032R0001	0.54	1
	2	502485	S802HV-K2	2CCF030027R0001	0.54	1
	2.5	502492	S802HV-K2,5	2CCF030028R0001	0.54	1
	3	502645	S802HV-K3	2CCF030033R0001	0.54	1
	4	501297	S802HV-K4	2CCF020063R0001	0.54	1
	5	501303	S802HV-K5	2CCF020064R0001	0.54	1
	6	436674	S802HV-K6	2CCF019019R0001	0.54	1
	8	436681	S802HV-K8	2CCF019020R0001	0.54	1
	10	436698	S802HV-K10	2CCF019021R0001	0.54	1
	13	436704	S802HV-K13	2CCF019022R0001	0.54	1
	16	436711	S802HV-K16	2CCF019023R0001	0.54	1
	20	436728	S802HV-K20	2CCF019024R0001	0.54	1
	25	436742	S802HV-K25	2CCF019025R0001	0.54	1
	32	436759	S802HV-K32	2CCF019026R0001	0.54	1
	40	436766	S802HV-K40	2CCF019027R0001	0.54	1
	50	436773	S802HV-K50	2CCF019028R0001	0.54	1
	63	436780	S802HV-K63	2CCF019029R0001	0.54	1
	80	436797	S802HV-K80	2CCF019030R0001	0.54	1
	100	436803	S802HV-K100	2CCF019031R0001	0.54	1
	125	436810	S802HV-K125	2CCF019032R0001	0.54	1

High performance MCBs

S800HV series for application up to 1000V AC



803HV

Number of poles	Rated current [A]	GTIN EAN 76122714	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
3	0.5	501310	S803HV-K0,5	2CCF020065R0001	0.81	1
	1	501327	S803HV-K1	2CCF020066R0001	0.81	1
	1.6	501334	S803HV-K1,6	2CCF020067R0001	0.81	1
	2	501341	S803HV-K2	2CCF020068R0001	0.81	1
	2.5	501358	S803HV-K2,5	2CCF020069R0001	0.81	1
	3	501365	S803HV-K3	2CCF020070R0001	0.81	1
	4	501372	S803HV-K4	2CCF020071R0001	0.81	1
	5	501389	S803HV-K5	2CCF020072R0001	0.81	1
	6	36827	S803HV-K6	2CCF019033R0001	0.81	1
	8	36834	S803HV-K8	2CCF019034R0001	0.81	1
	10	36841	S803HV-K10	2CCF019035R0001	0.81	1
	13	36858	S803HV-K13	2CCF019036R0001	0.81	1
	16	36865	S803HV-K16	2CCF019037R0001	0.81	1
	20	36872	S803HV-K20	2CCF019038R0001	0.81	1
	25	36889	S803HV-K25	2CCF019039R0001	0.81	1
	32	36896	S803HV-K32	2CCF019040R0001	0.81	1
	40	36902	S803HV-K40	2CCF019041R0001	0.81	1
	50	36919	S803HV-K50	2CCF019042R0001	0.81	1
	63	36926	S803HV-K63	2CCF019043R0001	0.81	1
	80	36933	S803HV-K80	2CCF019044R0001	0.81	1
	100	36940	S803HV-K100	2CCF019045R0001	0.81	1
	125	36957	S803HV-K125	2CCF019046R0001	0.81	1

S800HV-C characteristics

Function: protection and control of the circuits against overloads and short-circuits. With its Function: S800HV is designed for voltages up to 580/1000 V AC. Due to the high rated operational voltage, the field of application is wide – from underground mining to distributions on high altitudes.

Applications: industrial

Standard: IEC/EN 60947-2, UL 1077, supplementary protector

Icu = 4 kA



S803HV

Number of poles	Rated current [A]	Bbn 7612271 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
			Type code	Order code			
3	10	72221	S803HV-C10	2CCF019650R0001		0.81	1
3	32	72245	S803HV-C32	2CCF019651R0001		0.81	1

High performance MCBs

S800U series technical features

		S800U
General Data		
Tripping characteristics		K, Z
Standards		UL489
Poles		1 ... 4
Rated current I_e	A	10...100
Rated frequency f	Hz	50/60
Rated insulation voltage U_i acc. to IEC/EN 60664-1	V	AC 690
Rated impulse withstand voltage $U_{imp.}$ (1.2/50 µs)	kV	8
Overvoltage category		IV
Pollution degree		3
Suitability for isolation		yes
Data acc. to IEC/EN 60947-2		
Rated operational voltage U_e	V	AC 240/415
Min. operating voltage	V	AC 12
Rated ultimate short-circuit capacity I_{cu}	kA	AC 240 V (1-pole) = 30 kA AC 415 V (multipole) = 50 kA
Rated service short-circuit capacity I_{cs}	kA	AC 240 V (1-pole) = 25 kA AC 415 V (multipole) = 40 kA
Reference temperature for tripping characteristics	°C	25 °C
Electrical and Mechanical Endurance	ops.	10...32 A: 10000 electrical / 10000 mechanical 40...100 A: 6000 electrical / 10000 mechanical
Data acc. to UL / CSA		
Rated voltage	V	AC 240
Rated interrupting capacity acc. to UL 1077	kA	
Short-circuit current rating acc. to UL 489	kA	AC 240 V (1-pole) = 30 kA AC 240 V (multipole) = 50 kA
Short-circuit current rating acc. to UL 489B	kA	
Reference temperature for tripping characteristics		25 °C
Electrical and Mechanical endurance	ops.	acc. to UL489 6000 electrical; 4000 mechanical
Mechanical Data		
Protection degree acc. to EN 60529		IP20; IP40 (actuating end only)
Shock resistance acc. to IEC/EN 60068-2-30		IEC 61373 Cat. 1 Class B, 5 g/30 ms acc. To IEC 60068-27 Test Ea
Vibration resistance acc. to IEC/EN 60068-2-6		IEC 60068-2-6 Test Fc; 2 - 13.2 Hz/1 mm 13.2 - 100 Hz/0.7 g with load 100 % x I_e
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30	°C/RH	12 + 12 cycle with 55 °C/90 - 96 % and 25 °C/95 - 100 %
Environmental conditions (dry heat) acc. to IEC/EN 60068-2-2 Test B	°C/RH	16 hours 55 °C/2 hours 70 °C with damp heat 55 %
Ambient temperature	°C	-25 ... +60
Storage temperature	°C	-40 ... +70
Installation		
Terminal		Failsafe cage or ringlug terminal
Connections (top/bottom) – C_u only	mm^2	1 ... 50 stranded 1 ... 70 flexible
	AWG	10 - 30 A: 14 - 2 AWG 40 - 100 A: 1 - 8 AWG
Tightening torque	Nm	3.5
	in-lbs.	31
Screwdriver		POZI 2
Mounting		any
Mounting position		any
Supply		any
Dimensions and weight		
Pole dimensions (H x L x W)	mm	95 x 26.5 x 82.5
Pole weight	g	240

High performance MCBs

S804U-UCZ series technical features

		S804U-UCZ
General Data		
Tripping characteristics		UCZ
Standards		UL489
Poles		4
Rated current I_e	A	10 - 80
Rated frequency f	Hz	-
Rated insulation voltage U_i acc. to IEC/EN 60664-1	V	DC 1500
Rated impulse withstand voltage $U_{imp.}$ (1.2/50 µs)	kV	8
Overvoltage category		IV
Pollution degree		3
Suitability for isolation		yes
Data acc. to IEC/EN 60947-2		
Rated operational voltage U_e	V	-
Min. operating voltage	V	-
Rated ultimate short-circuit capacity I_{cu}	kA	-
Rated service short-circuit capacity I_{cs}	kA	-
Reference temperature for tripping characteristics	°C	-
Electrical and Mechanical Endurance	ops.	-
Data acc. to UL / CSA		
Rated voltage	V	DC 600
Rated interrupting capacity acc. to UL 1077	kA	-
Short-circuit current rating acc. to UL 489	kA	10
Short-circuit current rating acc. to UL 489B	kA	-
Reference temperature for tripping characteristics		25 °C
Electrical and Mechanical endurance	ops.	acc. to UL489 6000 electrical; 4000 mechanical
Mechanical Data		
Protection degree acc. to EN 60529		IP20; IP40 (actuating end only)
Shock resistance acc. to IEC/EN 60068-2-30		-
Vibration resistance acc. to IEC/EN 60068-2-6		-
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30	°C/RH	-
Environmental conditions (dry heat) acc. to IEC/EN 60068-2-2 Test B	°C/RH	-
Ambient temperature	°C	- 25 … +60
Storage temperature	°C	- 40 … +70
Installation		
Terminal		Failsafe cage terminal
Connections C_u (top/bottom)	AWG	10 - 32 A: 14-2 AWG 40 - 80 A: 1-8 AWG
Tightening torque	Nm	3.5
	in-lbs.	31
Screwdriver		POZI 2
Mounting		any
Mounting position		any
Supply		any
Dimensions and weight		
Pole dimensions (H x L x W)	mm	142 x 26.5 x 82.5
Pole weight	g	240

High performance MCBs

S804U-PVS series technical features

		S804U-PVS
General Data		
Tripping characteristics		PVS
Standards		UL489B (Photovoltaic)
Poles		4
Rated current I_e	A	5
Rated frequency f	Hz	-
Rated insulation voltage U_i acc. to IEC/EN 60664-1	V	DC 1500
Rated impulse withstand voltage $U_{imp.}$ (1.2/50 µs)	kV	8
Overvoltage category		III
Pollution degree		2
Suitability for isolation		yes
Data acc. to IEC/EN 60947-2		
Rated operational voltage U_e	V	-
Min. operating voltage	V	-
Rated ultimate short-circuit capacity I_{cu}	kA	-
Rated service short-circuit capacity I_{cs}	kA	-
Reference temperature for tripping characteristics	°C	-
Electrical and Mechanical Endurance	ops.	-
Data acc. to UL / CSA		
Rated voltage	V	DC 1000
Rated interrupting capacity acc. to UL 1077	kA	-
Short-circuit current rating acc. to UL 489	kA	-
Short-circuit current rating acc. to UL 489B	kA	3 kA
Reference temperature for tripping characteristics		50 °C
Electrical and Mechanical endurance	ops.	acc. to UL489 1000 electrical; 1000 mechanical
Mechanical Data		
Protection degree acc. to EN 60529		IP20; IP40 (actuating end only)
Shock resistance acc. to IEC/EN 60068-2-30		-
Vibration resistance acc. to IEC/EN 60068-2-6		-
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30	°C/RH	-
Environmental conditions (dry heat) acc. to IEC/EN 60068-2-2 Test B	°C/RH	-
Ambient temperature	°C	-25 … +60
Storage temperature	°C	-40 … +70
Installation		
Terminal		Failsafe cage terminal
Connections (top/bottom) – C_u only	mm^2	1 … 50 stranded 1 … 70 flexible
	AWG	14 AWG - 2 AWG Single conductor per terminal, 75C wire
Flexible Cross-section of conductors (top/bottom)	mm^2	-
	AWG	14 AWG - 2 AWG Single conductor per terminal - copper only, 75C wire
Tightening torque	Nm	3.5
	in-lbs.	31
Screwdriver		POZI 2
Mounting		any
Mounting position		any
Supply		any
Dimensions and weight		
Pole dimensions (H x L x W)	mm	142 x 26.5 x 82.5
Pole weight	g	240

High performance MCBs

S800U series technical features

		S800U	S804U-UCZ	S804U-PVS
Combination with aux. elements	S800-AUX	yes	yes	yes
	S800-AUX/ALT	yes	yes	yes
	S800W-RSU	yes	yes	yes
	S800-SOR	yes	yes	yes
	S800-UVR	yes	yes	yes

High performance MCBs

S800U series with cage terminal, Z characteristic



S801U



S802U



S803U



S804U

S800U-Z characteristic

Function: protection and control of the circuits against overloads and short-circuits when a high breaking capacity is required; protection for people and big length cables in TN and IT systems; very useful when selectivity is needed vs an MCCB or back-up vs other MCBs wired downstream.

Applications: commercial and industrial.

Standard: UL489, CSA 22.2 NO.5-02, IEC/EN 60947-2

Icu=30 kA (1 pole), 50 kA (2...4 poles)

Number of poles	Rated current [A]	GTIN EAN 76122712	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
1	10	14487	S801U-Z10	2CCS881017R0105	0.25	1
	15	14524	S801U-Z15	2CCS881017R0155	0.25	1
	20	14562	S801U-Z20	2CCS881017R0205	0.25	1
	25	14609	S801U-Z25	2CCS881017R0255	0.25	1
	30	14647	S801U-Z30	2CCS881017R0305	0.25	1
	40	14685	S801U-Z40	2CCS881017R0405	0.25	1
	50	14722	S801U-Z50	2CCS881017R0505	0.25	1
	60	14760	S801U-Z60	2CCS881017R0605	0.25	1
	70	14807	S801U-Z70	2CCS881017R0705	0.25	1
	80	14845	S801U-Z80	2CCS881017R0805	0.25	1
	90	14883	S801U-Z90	2CCS881017R0905	0.25	1
	100	14920	S801U-Z100	2CCS881017R0825	0.25	1
2	10	14494	S802U-Z10	2CCS862017R0105	0.49	1
	15	14531	S802U-Z15	2CCS862017R0155	0.49	1
	20	14579	S802U-Z20	2CCS862017R0205	0.49	1
	25	14616	S802U-Z25	2CCS862017R0255	0.49	1
	30	14654	S802U-Z30	2CCS862017R0305	0.49	1
	40	14692	S802U-Z40	2CCS862017R0405	0.49	1
	50	14739	S802U-Z50	2CCS862017R0505	0.49	1
	60	14777	S802U-Z60	2CCS862017R0605	0.49	1
	70	14814	S802U-Z70	2CCS862017R0705	0.49	1
	80	14852	S802U-Z80	2CCS862017R0805	0.49	1
	90	14890	S802U-Z90	2CCS862017R0905	0.49	1
	100	14937	S802U-Z100	2CCS862017R0825	0.49	1
3	10	14500	S803U-Z10	2CCS863017R0105	0.74	1
	15	14548	S803U-Z15	2CCS863017R0155	0.74	1
	20	14586	S803U-Z20	2CCS863017R0205	0.74	1
	25	14623	S803U-Z25	2CCS863017R0255	0.74	1
	30	14661	S803U-Z30	2CCS863017R0305	0.74	1
	40	14708	S803U-Z40	2CCS863017R0405	0.74	1
	50	14746	S803U-Z50	2CCS863017R0505	0.74	1
	60	14784	S803U-Z60	2CCS863017R0605	0.74	1
	70	14821	S803U-Z70	2CCS863017R0705	0.74	1
	80	14869	S803U-Z80	2CCS863017R0805	0.74	1
	90	14906	S803U-Z90	2CCS863017R0905	0.74	1
	100	14944	S803U-Z100	2CCS863017R0825	0.74	1
4	10	14517	S804U-Z10	2CCS864017R0105	0.98	1
	15	14555	S804U-Z15	2CCS864017R0155	0.98	1
	20	14593	S804U-Z20	2CCS864017R0205	0.98	1
	25	14630	S804U-Z25	2CCS864017R0255	0.98	1
	30	14678	S804U-Z30	2CCS864017R0305	0.98	1
	40	14715	S804U-Z40	2CCS864017R0405	0.98	1
	50	14753	S804U-Z50	2CCS864017R0505	0.98	1
	60	14791	S804U-Z60	2CCS864017R0605	0.98	1
	70	14838	S804U-Z70	2CCS864017R0705	0.98	1
	80	14876	S804U-Z80	2CCS864017R0805	0.98	1
	90	14913	S804U-Z90	2CCS864017R0905	0.98	1
	100	14951	S804U-Z100	2CCS864017R0825	0.98	1

High performance MCBs

S800U series with cage terminal, K characteristic



S801U



S802U



S803U



S804U

S800U-K characteristic

Function: protection and control of the circuits against overloads and short-circuits when a high breaking capacity is required; protection for people and big length cables in TN and IT systems; very useful when selectivity is needed vs an MCCB or back-up vs other MCBs wired downstream.

Applications: commercial and industrial.

Standard: UL489, CSA 22.2 NO.5-02, IEC/EN 60947-2

Icu=30 kA (1-pole), 50 kA (2...4-pole)

Number of poles	Rated current [A]	GTIN EAN 76122712	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
1	10	14005	S801U-K10	2CCS881017R0427	0.25	1
	15	14043	S801U-K15	2CCS881017R0457	0.25	1
	20	14081	S801U-K20	2CCS881017R0487	0.25	1
	25	14128	S801U-K25	2CCS881017R0517	0.25	1
	30	14166	S801U-K30	2CCS881017R0527	0.25	1
	40	14203	S801U-K40	2CCS881017R0557	0.25	1
	50	14241	S801U-K50	2CCS881017R0577	0.25	1
	60	14289	S801U-K60	2CCS881017R0587	0.25	1
	70	14326	S801U-K70	2CCS881017R0707	0.25	1
	80	14364	S801U-K80	2CCS881017R0627	0.25	1
	90	14401	S801U-K90	2CCS881017R0907	0.25	1
	100	14449	S801U-K100	2CCS881017R0637	0.25	1
2	10	14012	S802U-K10	2CCS862017R0427	0.49	1
	15	14050	S802U-K15	2CCS862017R0457	0.49	1
	20	14098	S802U-K20	2CCS862017R0487	0.49	1
	25	14135	S802U-K25	2CCS862017R0517	0.49	1
	30	14173	S802U-K30	2CCS862017R0527	0.49	1
	40	14210	S802U-K40	2CCS862017R0557	0.49	1
	50	14258	S802U-K50	2CCS862017R0577	0.49	1
	60	14296	S802U-K60	2CCS862017R0587	0.49	1
	70	14333	S802U-K70	2CCS862017R0707	0.49	1
	80	14371	S802U-K80	2CCS862017R0627	0.49	1
	90	14418	S802U-K90	2CCS862017R0907	0.49	1
	100	14456	S802U-K100	2CCS862017R0637	0.49	1
3	10	14029	S803U-K10	2CCS863017R0427	0.74	1
	15	14067	S803U-K15	2CCS863017R0457	0.74	1
	20	14104	S803U-K20	2CCS863017R0487	0.74	1
	25	14142	S803U-K25	2CCS863017R0517	0.74	1
	30	14180	S803U-K30	2CCS863017R0527	0.74	1
	40	14227	S803U-K40	2CCS863017R0557	0.74	1
	50	14265	S803U-K50	2CCS863017R0577	0.74	1
	60	14302	S803U-K60	2CCS863017R0587	0.74	1
	70	14340	S803U-K70	2CCS863017R0707	0.74	1
	80	14388	S803U-K80	2CCS863017R0627	0.74	1
	90	14425	S803U-K90	2CCS863017R0907	0.74	1
	100	14463	S803U-K100	2CCS863017R0637	0.74	1
4	10	14036	S804U-K10	2CCS864017R0427	0.98	1
	15	14074	S804U-K15	2CCS864017R0457	0.98	1
	20	14111	S804U-K20	2CCS864017R0487	0.98	1
	25	14159	S804U-K25	2CCS864017R0517	0.98	1
	30	14197	S804U-K30	2CCS864017R0527	0.98	1
	40	14234	S804U-K40	2CCS864017R0557	0.98	1
	50	14272	S804U-K50	2CCS864017R0577	0.98	1
	60	14319	S804U-K60	2CCS864017R0587	0.98	1
	70	14357	S804U-K70	2CCS864017R0707	0.98	1
	80	14395	S804U-K80	2CCS864017R0627	0.98	1
	90	14432	S804U-K90	2CCS864017R0907	0.98	1
	100	14470	S804U-K100	2CCS864017R0637	0.98	1

High performance MCBs

S800U series UCZ characteristic



S804U

S800 UCZ characteristic

Function: this breaker is specially designed for networks up to 600 V d.c., e.g. datacenter. With its short-circuit current rating of 10 kA you will get a good solution regarding safety and reliability. This breaker is tested acc to UL489 (cIUSus).

Number of poles	Rated current [A]	GTIN EAN 7612271	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
4	10	420703	S804U-UCZ10	2CCS248356R0001	0.98	1
	15	420710	S804U-UCZ15	2CCS248357R0001	0.98	1
	20	420727	S804U-UCZ20	2CCS248358R0001	0.98	1
	25	420734	S804U-UCZ25	2CCS248359R0001	0.98	1
	30	420741	S804U-UCZ30	2CCS248360R0001	0.98	1
	40	420758	S804U-UCZ40	2CCS248361R0001	0.98	1
	50	420765	S804U-UCZ50	2CCS248362R0001	0.98	1
	60	420772	S804U-UCZ60	2CCS248363R0001	0.98	1
	70	420789	S804U-UCZ70	2CCS248364R0001	0.98	1
	80	420796	S804U-UCZ80	2CCS248365R0001	0.98	1

High performance MCBs

S800U series PVS characteristic



S804U

S800U PVS characteristic - Ground fault detector interrupter (GFDI)
Function: string protection.
The S804U-PVS5 is for string protection in photovoltaic systems.
In case of reverse currents, the breaker wil trip. Thus the PV generator will not be damaged.
The breaker is tested acc. to UL489B for 1000 V d.c.

Number of poles	I_{cu} [kA]	Rated current [A]	GTIN EAN 7612271	Order details		Weight [kg]	Pack. unit
				Type Code	Order code		
4	3	5	419929	S804U-PVS5	2CCP824017R1159	0.98	1

High performance MCBs

S800PV-SP series technical features

		S800PV-SP
General Data		
Tripping characteristics		SP
Standards		IEC / EN 60947-2 and Annex P
Poles		2 ... 4
Rated frequency I_e	A	5 ... 125
Rated frequency f	Hz	-
Rated insulation voltage U_i acc. to IEC/EN 60664-1	V	DC 1500
Rated impulse withstand voltage $U_{imp.}$ (1.2/50 µs)	kV	8
Overvoltage category		III*
Pollution degree		2
Suitability for isolation		yes
Data acc. to IEC/EN 60947-2		
Rated operational voltage U_e	V	2-pole DC 800 V: 5 ... 125 A 3-pole DC 1200 V: 5 ... 125 A 4-pole DC 1500 V: 5 ... 125 A
Min. operating voltage	V	-
Rated ultimate short-circuit capacity I_{cu}	kA	5 ... 16 A acc. IEC 60947-2 Annex P. I_{cu} = 5 kA 20 ... 125 A, acc. IEC 60947-2, I_{cu} = 5 kA 20 ... 125 A, acc. IEC 60947-2 Annex P. I_{cu} = 3 kA
Rated service short-circuit capacity I_{cs}	kA	$I_{cu} = I_{cs}$
Reference temperature for tripping characteristics	°C	40 °C
Electrical and Mechanical Endurance	ops.	acc. to Annex P: 5 ... 16 A: 300 electrical/9700 mechanical acc. to IEC 60947-2 (general part): 20 ... 100 A: 1500 electrical/8500 mechanical 125 A: 1000 electrical/9000 mechanical
Mechanical Data		
Housing		Material group I, RAL 7035
Toggle		black, lockable
Classification acc. To NF F 126-101, NF F 16-102		-
Protection degree acc. to EN 60529		IP20; IP40 (actuating end only)
Shock resistance acc. to IEC/EN 60068-2-30		IEC 61373 Cat. 1 Class B, 5 g / 30 ms acc. To IEC 60068-27 Test Ea
Vibration resistance acc. to IEC/EN 60068-2-6		IEC 60068-2-6 Test Fc; 2 - 13.2 Hz/1 mm 13.2 - 100 Hz/0.7 g with load 100 % x I_e
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30	°C/RH	12 + 12 cycle with 55 °C/90 - 96 % and 25 °C/95 - 100 %
Environmental conditions (dry heat) acc. to IEC/EN 60068-2-2 Test B	°C/RH	16 hours 55 °C/2 hours 70 °C with damp heat 55 %
Ambient temperature	°C	-25 ... +60
Storage temperature	°C	-40 ... +70
Installation		
Terminal		Failsafe cage or ringlug terminal
Connections (top/bottom) - C_u only	mm^2	1 ... 50 stranded 1 ... 70 flexible
Tightening torque	Nm	3.5
	in-lbs.	31
Screwdriver		POZI 2
Mounting		any
Mounting position		any
Supply		any
Dimensions and weight		
Pole dimensions (H x L x W)	mm	95 x 26.5 x 82.5
Pole weight	g	240

*The pollution degree of the product, as defined in standard IEC 60947-1, is related to its micro environment, to which equipment is exposed. It may be different from that of the macro-environment. According to where the equipment is located, the pollution degree of the macro environment can be considered up to category IV if protection is offered by means of such as an adequate enclosure or internal heating to prevent absorption or condensation of moisture.

High performance MCBs

S802PV-M-H and S800PV-SD technical features

		S802PV-M-H	S800PV-SD
General Data			
Tripping characteristics		none	none
Standards		IEC / EN 60947-3	IEC / EN 60947-3 and Annex D
Poles		2 (polarized)	2 ... 4
Rated current I_e	A	32, 63, 100	32, 63, 125
Rated insulation voltage U_i acc. to IEC/EN 60664-1	V	DC 1500	DC 1500
Rated impulse withstand voltage $U_{imp.}$ (1.2/50 µs)	kV	8	8
Overvoltage category		III*	III*
Pollution degree		2	2
Suitability for isolation		yes	yes
Data acc. to IEC/EN 60947-3			
Rated operational voltage U_e	V	DC 1000V: 2-pole	DC 800V: 2-pole DC 1200V: 3-Pole DC 1500V: 4-pole
Min. operating voltage	V	-	-
Rated short-term withstand current I_{cw}	kA	1.5	1.5
Rated short-circuit making capacity I_{cm}	kA	0.5	0.5
Utilisation category		DC-21A	DC-21A, DC-PV2
Electrical and Mechanical Endurance	ops.	1500 electrical / 10000 mechanical	32, 63 A: 1500 electrical / 10000 mechanical 125 A: 1000 electrical / 8000 mechanical
Mechanical Data			
Housing		Material group I, RAL 7035	Material group I, RAL 7035
Toggle		black, lockable	black, lockable
Classification acc. To NF F 126-101, NF F 16-102		-	-
Protection degree acc. to EN 60529		IP20; IP40 (actuating end only)	IP20; IP40 (actuating end only)
Shock resistance acc. to IEC/EN 60068-2-30		IEC 61373 Cat. 1 Class B, 5g / 30ms acc. To IEC 60068-27 Test Ea	IEC 61373 Cat. 1 Class B, 5g / 30ms acc. To IEC 60068-27 Test Ea
Vibration resistance acc. to IEC/EN 60068-2-6		IEC 60068-2-6 Test Fc; 2 - 13.2Hz/1mm 13.2 - 100Hz/0.7g with load 100% x I_e	IEC 60068-2-6 Test Fc; 2 - 13.2Hz/1mm 13.2 - 100Hz/0.7g with load 100% x I_e
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30	°C/RH	12 + 12 cycle with 55°C/90 - 96% and 25°C/95 - 100%	12 + 12 cycle with 55°C/90 - 96% and 25°C/95 - 100%
Environmental conditions (dry heat) acc. to IEC/EN 60068-2-2 Test B	°C/RH	16 hours 55°C/2 hours 70°C with damp heat 55%	16 hours 55°C/2 hours 70°C with damp heat 55%
Ambient temperature	°C	-25 ... +60	-25 ... +60
Storage temperature	°C	-40 ... +70	-40 ... +70
Installation			
Terminal		Failsafe cage or ringlug terminal	Failsafe cage or ringlug terminal
Connections (top/bottom) - C_u only	mm^2	1 ... 50 stranded 1 ... 70 flexible	1 ... 50 stranded 1 ... 70 flexible
Tightening torque	Nm	3.5	3.5
	in-lbs.	31	31
Screwdriver		POZI 2	POZI 2
Mounting		any	any
Mounting position		any	any
Supply		any (taking into account the polarization)	any (taking into account the polarization)
Dimensions and weight			
Pole dimensions (H x L x W)	mm	95 x 26.5 x 82.5	95 x 26.5 x 82.5
Pole weight	g	240	240

*The pollution degree of the product, as defined in standard IEC 60947-1, is related to its micro environment, to which equipment is exposed. It may be different from that of the macro-environment. According to where the equipment is located, the pollution degree of the macro environment can be considered up to category IV, if protection is offered by means of such as an adequate enclosure or internal heating to prevent absorption or condensation of moisture.

High performance MCBs

S802PV-M-H and S800PV-SD technical features

		S800PV-SP	S800PV-SD	S800PV-M-H
Combination with aux. elements	S800-AUX	yes	yes	yes
	S800-AUX/ALT	yes	no	no
	S800-RSU-H	yes	yes	yes
	S800W-RSU	yes	yes	yes
	S800-SOR	yes	yes	yes
	S800-UVR	yes	yes	yes

High performance MCBs

S800PV series with cage terminal, B characteristic

S800PV-SP

Function: protection and control of photovoltaic strings against overloads, short-circuits and reverse currents. Ideal replacement for fuses due to comfortable string failure identification and signalisation.

Applications: Photovoltaic systems. Standard: IEC 60947-2 and Annex P

5 ... 16A acc. IEC 60947-2 Annex P., I_{cu} 5 kA

20 ... 125A acc. IEC 60947-2, I_{cu} 5 kA

5 ... 125A acc. IEC 60947-2 Annex P., I_{cu} 3 kA



S802PV



S803PV



S804PV

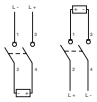
Number of poles	Rated current [A]	GTIN EAN 76122712	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
2	5	71170	S802PV-SP5	2CCF019596R0001	0.49	1
	6	72115	S802PV-SP6	2CCF019643R0001	0.49	1
	8	72139	S802PV-SP8	2CCF019644R0001	0.49	1
	10	71194	S802PV-SP10	2CCF019597R0001	0.49	1
	13	71217	S802PV-SP13	2CCF019598R0001	0.49	1
	16	71231	S802PV-SP16	2CCF019599R0001	0.49	1
	20	71255	S802PV-SP20	2CCF019600R0001	0.49	1
	25	71279	S802PV-SP25	2CCF019601R0001	0.49	1
	32	71293	S802PV-SP32	2CCF019602R0001	0.49	1
	40	71316	S802PV-SP40	2CCF019603R0001	0.49	1
	50	71330	S802PV-SP50	2CCF019604R0001	0.49	1
	63	71354	S802PV-SP63	2CCF019605R0001	0.49	1
	80	71378	S802PV-SP80	2CCF019606R0001	0.49	1
	100	71392	S802PV-SP100	2CCF019607R0001	0.49	1
	125	71415	S802PV-SP125	2CCF019608R0001	0.49	1
3	5	71439	S803PV-SP5	2CCF019609R0001	0.74	1
	6	72153	S803PV-SP6	2CCF019645R0001	0.74	1
	8	72177	S803PV-SP8	2CCF019646R0001	0.74	1
	10	71453	S803PV-SP10	2CCF019610R0001	0.74	1
	13	71477	S803PV-SP13	2CCF019611R0001	0.74	1
	16	71491	S803PV-SP16	2CCF019612R0001	0.74	1
	20	71514	S803PV-SP20	2CCF019613R0001	0.74	1
	25	71538	S803PV-SP25	2CCF019614R0001	0.74	1
	32	71552	S803PV-SP32	2CCF019615R0001	0.74	1
	40	71576	S803PV-SP40	2CCF019616R0001	0.74	1
	50	71590	S803PV-SP50	2CCF019617R0001	0.74	1
	63	71613	S803PV-SP63	2CCF019618R0001	0.74	1
	80	71637	S803PV-SP80	2CCF019619R0001	0.74	1
	100	71651	S803PV-SP100	2CCF019620R0001	0.74	1
	125	71675	S803PV-SP125	2CCF019621R0001	0.74	1
4	5	52124	S804PV-SP5	2CCF019586R0001	0.98	1
	6	72191	S804PV-SP6	2CCF019647R0001	0.98	1
	8	72214	S804PV-SP8	2CCF019648R0001	0.98	1
	10	71699	S804PV-SP10	2CCF019622R0001	0.98	1
	13	71712	S804PV-SP13	2CCF019623R0001	0.98	1
	16	71736	S804PV-SP16	2CCF019624R0001	0.98	1
	20	71750	S804PV-SP20	2CCF019625R0001	0.98	1
	25	71774	S804PV-SP25	2CCF019626R0001	0.98	1
	32	71798	S804PV-SP32	2CCF019627R0001	0.98	1
	40	71811	S804PV-SP40	2CCF019628R0001	0.98	1
	50	71835	S804PV-SP50	2CCF019629R0001	0.98	1
	63	71859	S804PV-SP63	2CCF019630R0001	0.98	1
	80	71873	S804PV-SP80	2CCF019631R0001	0.98	1
	100	71897	S804PV-SP100	2CCF019632R0001	0.98	1
	125	71910	S804PV-SP125	2CCF019633R0001	0.98	1

High performance MCBs

S800PV series with cage terminal, B characteristic



S802PV



S802PV-M-H

Function: this polarized disconnector is designed to meet the requirements for photovoltaic systems. Voltage up to 1000 V d.c. and rated current up to 100 A.

Number of poles	Rated current [A]	GTIN EAN 7612271	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
2	32	419035	S802PV-M32-H	2CCP247204R0001	0.43	1
	63	419042	S802PV-M63-H	2CCP247205R0001	0.43	1
	100	419301	S802PV-M100-H	2CCP247212R0001	0.43	1

S800PV-SD

Function: switch disconnector for DC side isolation of PV systems.
Designed for PV installations of 1500 V DC.
Applications: Photovoltaic systems
Rated short-term withstand current, Icw 1,5 kA



S802PV



S803PV



S804PV

Number of poles	Rated current [A]	GTIN EAN 76122712	Order details		Weight [kg]	Pack. unit
			Type Code	Order code		
2	32	71958	S802PV-SD32	2CCF019635R0001	0.43	1
	63	71934	S802PV-SD63	2CCF019634R0001	0.43	1
	125	71972	S802PV-SD125	2CCF019636R0001	0.43	1
3	32	71996	S803PV-SD32	2CCF019637R0001	0.65	1
	63	72016	S803PV-SD63	2CCF019638R0001	0.65	1
	125	72030	S803PV-SD125	2CCF019639R0001	0.65	1
4	32	72054	S804PV-SD32	2CCF019640R0001	0.86	1
	63	72078	S804PV-SD63	2CCF019641R0001	0.86	1
	125	72092	S804PV-SD125	2CCF019642R0001	0.86	1

Notes

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eRCBOs

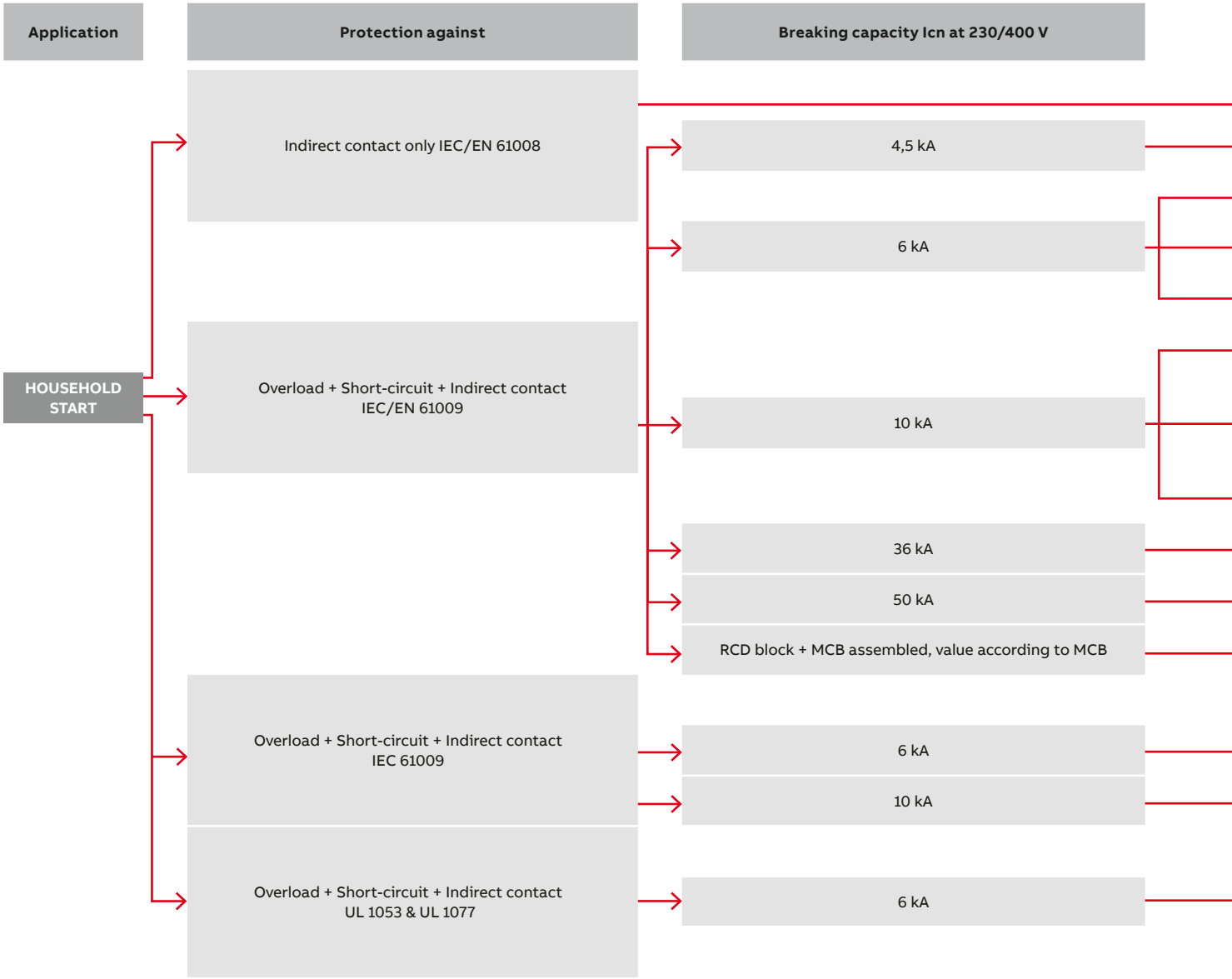
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System pro M compact®
Quick selection of RCDs for household and industrial applications

Easy! Find the right range and the corresponding catalogue page at a glance using this selection chart.



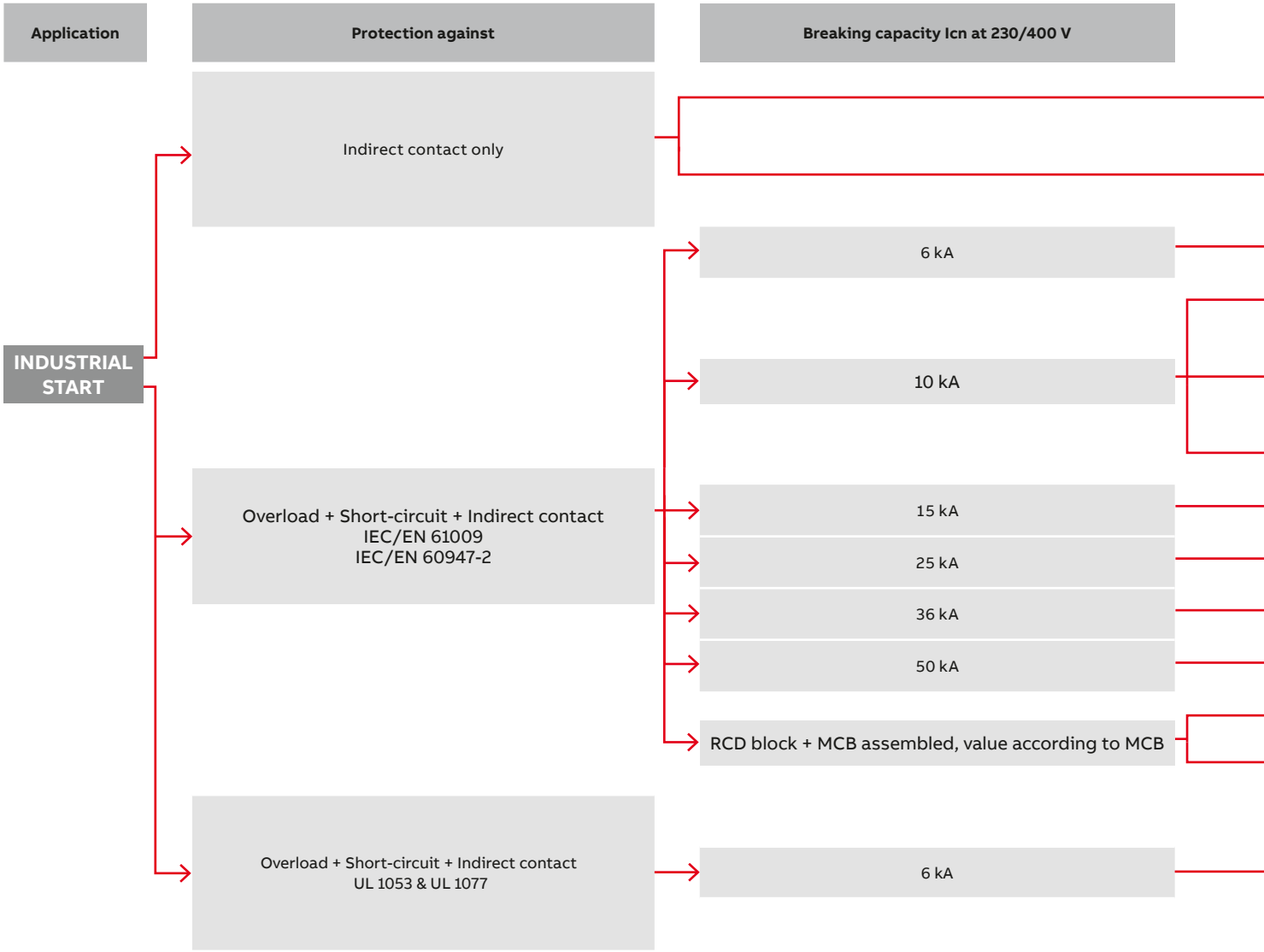
System pro M compact®

Quick selection of RCDs for household and industrial applications

Rated current	Remark	Poles	Solution	Page
Up to 125 A		All poles	F200	2/10
Up to 32 A		1P+N	DS201 L	2/60
Up to 32 A	Reduced size	2P	DS202C	2/84
Up to 40 A	Reduced size	1P+N	DS201	2/62
Up to 63 A	Standard size	All poles	DS 200	2/111
Up to 32 A	Reduced size	2P	DS202C M	2/86
Up to 40 A	Reduced size	1P+N	DS201 M	2/72
Up to 63 A	Standard size	All poles	DS 200 M	2/115
Up to 125 A		All poles	DS800N	2/123
Up to 125 A		All poles	DS800S	2/122
Up to 63 A	RCD: IEC/EN 61009 Ann. G	All poles	DDA 200 + S200	2/36 + 1/32
Up to 50 A	Voltage dependent	1P+N	DSE201	2/132
Up to 50 A	Voltage dependent	1P+N	DSE201 M	2/138
Up to 25 A	Reduced size	1P+N	DS201 UL	2/81

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Quick selection of RCDs for household and industrial applications

Easy! Find the right range and the corresponding catalogue page at a glance using this selection chart.



System pro M compact®

Quick selection of RCDs for household and industrial applications

Rated current	Remark	Poles	Solution	Page
Up to 125 A	IEC/EN 61008	All poles	F200	2/10
According to MCB	IEC/EN 62020	All poles	RD2	2/142
	IEC/EN 60947-2 Ann. M	All poles	RD3	2/143
Up to 32 A		1P+N	DS201 L	2/60
Up to 32 A		2P	DS202C, DS202C M	2/84, 2/86
Up to 40 A		1P+N	DS201, DS201 M	2/62, 2/72
Up to 63 A		All poles	DS 200	2/111
Up to 63 A		All poles	DS 200 M	2/115
Up to 100 A		All poles	DDA 800	2/50
Up to 125 A		All poles	DS800N	2/123
Up to 125 A		All poles	DS800S	2/122
Up to 63 A	RCD: IEC/EN 61009 Ann. G	All poles	DDA 200 + S200	2/36 + 1/32
Up to 100 A	RCD: IEC/EN 60947-2 Ann. B	All poles	DDA 800 + S800	2/50 + 1/114
Up to 25 A	Reduced size	1P+N	DS201 UL	2/81

RCCB F 200.
The details make the difference
A range designed to ensure efficiency and protection



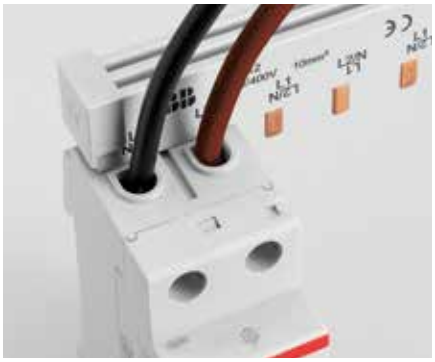
Bi-directional cylindrical terminal ensure higher safety of connecting operations, making them easier.

Test pushbutton to verify the correct functioning of the device.

Contact position indicator (CPI): to always know the status of the contacts (red: closed contacts; green: open contacts) independently on the toggle position.

Information on the device are laser printed to make them clearly visible and long lasting.

Laser-marked order code on the front to make easier future orders.



Two terminals are available, the fore one for cables up to 25 mm^2, the back one for cables up to 10 mm^2 or for busbars.



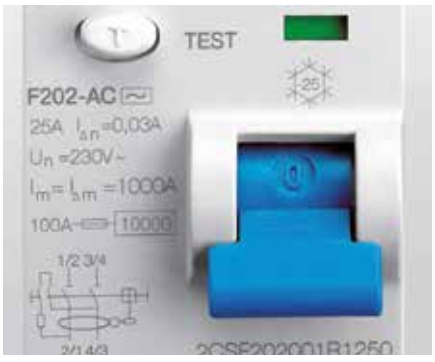
RCCBs F200 can be used in ambient conditions where the temperature of the surrounding atmosphere has values between -25 °C (snowflake laser printed on the front of the device) and +55 °C.



The availability of two terminals offers different connection solutions thanks to the possibility to connect two independent cables in the same device: the second terminal can be used for an auxiliary circuit or for the supply of devices with small section cables without connecting them together with the main circuit.



All the safety ensured by the international marks: approvals' marking in a visible area, even if RCDs is installed and with the panel-door closed.



High performances:

- rated breaking capacity and rated residual breaking capacity laser printed on the device: Im=IΔm= 1000 A
- coordination with a 100 A rated current SCPD (short-circuit protective device) = 10 000 A.



The F 202 can be coupled with the autoreclosing unit F2C-ARH in order to ensure continuity of service for the whole installation of your home avoiding lack of supply.

RCCBs

F200 technical features



Standards			
Electrical features	Type (wave form of the earth leakage sensed)		
	Number of poles		
	Rated current In		A
	Rated sensitivity IΔn		A
	Rated voltage Ue	IEC	V
		UL/CSA	V
	Insulation voltage Ui		V
	Row Operating voltace of circuit test UL/CSA		
	Operating voltage of circuit test Ut	IEC	V
		UL/CSA	V
	Rated frequency		Hz
	Rated conditional short-circuit current Inc=IΔ③	SCPD - fuse gG 100 A	kA
	Rated residual breaking capacity IΔm=Im		kA
	Rated impulse withstand voltage (1.2/50) Uimp		kV
	Dielectric test voltage at ind. freq. for 1 min.		kV
	Overvoltage category		
	Pollution degree		
	Surge current resistance (wave 8/20)		A
Mechanical features	Housing		
	Toggle		
	Contact position indicator (CPI)		
	Electrical life		
	Mechanical life		
	Protection degree	housing	
		terminals	
	Environmental conditions (damp heat) acc. to	IEC/EN 60068-2-30	°C/RH
	Shock resistance acc. to IEC/EN 60068-2-27		
	Vibration resistance acc. to IEC/EN 60068-2-6		
	Ambient temperature (with daily average ≤ +35 °C)	IEC	°C
	Storage temperature		°C
Installation	Terminal type		
	Terminal size top/bottom for cable	IEC	mm^2
		UL/CSA	AWG
	Terminal size top/bottom for busbar	IEC	mm^2
		UL/CSA	AWG
	Tightening torque	IEC	Nm
		UL/CSA	in-lbs.
	Stripping length of the cable		
	Tool		
	Mounting		
	Mounting position		
	Supply from		
	Withdrawal from busbar		
Dimensions and weight	Dimensions (H x D x W)	2P	mm
		4P	mm
	Weight	2P	g
		4P	g
Combination with auxiliary elements	Combinable with:	auxiliary contact	
		signal contact/auxiliary switch	
		shunt trip	
		undervoltage release	

① Ground-fault sensing and relaying equipment-component (up to 63 A)
② prior to connection of aluminium conductors (≥ 4 mm^2) ensure that their contact points are cleaned, brushed and coated with grease
③ S750-E 63A, S750DR-E/K 63A and other SCPD coordination values see Chapter 3 of Solutions for electrical distribution in buildings - technical details
④ F200 left neutral has not the UL certification and the UL mark
⑤ Only for versions with marking according to EN 61008-1; EN 61008-2-1
⑥ Neutral conductor can be wired anywhere for 2P devices

RCCBs

F200 technical features

F200 AC	F200 A	F200 A AP-R	F200 A S	F200 A 110V	F200 A 400 Hz	F200 A 16 2/3 Hz	F200 F
IEC/EN 61008-1; IEC/EN 61008-2-1, UL 1053 ①				IEC 61008-1; IEC 61008-2-1; UL 1053	IEC/EN 61008-1; IEC/EN 61008-2-1	IEC/EN 61008-1; IEC/EN 61008-2-1	IEC/EN 61008, IEC/EN 62423 2nd ed
AC	A	A	A	A	A	A	F
2P ⑥, 4P (for 125 A only 4P)				2P, 4P	4P	2P, 4P	2P, 4P
16, 25, 40, 63, 80, 100, 125		25, 40, 63, 80, 100, 125	40, 63, 80, 100, 125	25, 40, 63, 80, 100	25, 40	63	25, 40, 63
0.01-0.03-0.1-0.3-0.5		0.03	0.1-0.3-0.5-1	0.03	0.03	0.03-0.3-0.5	0.03
230/400 - 240/415							
480Y/277 (up to 100 A)				-	-		-
500							
				110-277			
In ≤ 100; Right neutral: 110 (170 for 30mA) - 254 ⑤; Left neutral: 195 (300 for 30 mA) - 440 ⑤ In = 125 A; Right neutral: 100 (150 for 30 mA) - 250 ⑤; Left neutral: 200 (250 for 30 mA) - 440				110-254	170-254	110 (170 for 30 mA) - 254	170/259
In ≤ 100; Right neutral: 110 - 277; Left neutral: 195 - 480 ④					-		-
50/60					50/400	16 2/3	50/60
10 (for 125 A fuse is gG 125 A)							10
1 (1.25 for 125 A)							1
4							
2.5							
III, disconnector abilities							-
2							
NA		3000	5000	NA	NA	NA	3000
RAL 7035							
RAL 5015							
yes							
10000 (2000 for 125 A)				10000	10000	10000	10000
20000 (5000 for 125 A)				20000	20000	20000	20000
IP4X							
IP2X							
28 cycles with 55°C/90-96% and 25°C/95-100%							
25g - 2 shocks - 13ms							
0,1 mm o 1 g - 20 cicli a 5...150...5 Hz							
-25...+55 (-25...+40 for 125 A)				-25...+55	-25...+55	-25...+55	-25...+55
-40...+70							
failsafe bi-directional cylinder-lift terminal at top and bottom (shock protected) (cage for In > 63 A) ②							
25/25 (35/35 single slot terminal for In > 63 A)					25/25	25/25	25/25
18-4 (up to 63 A)				-	-	-	-
10/10 (not for In = 80-100 A)					10/10	10/10	10/10
18-8 (up to 63 A)				-	-	-	-
2.8 (3 for In = 125 A)				2.8	2.8	2.8	2.8
25 (up to 63 A)				-	-	-	-
12 mm (for In=80-100 A 12,7 mm Top terminals and 14,9 mm Bottom terminals)							
Nr. 2 Pozidriv							
on DIN rail EN 60715 (35 mm) by means of fast clip device							
Any							
from top and bottom							
it is possible without using any tools only from the bottom (not for 125 A)							-
85 x 69 x 35					-	-	85 x 69 x 35
85 x 69 x 70 (85 x 69.5 x 72 for 125 A)					85 x 69 x 70	85 x 69 x 70	85 x 69 x 70
200					-	-	225
360 (380 for In = 80 and 100 A and 500 for In = 125A)					360	360	375
yes (no for 125 A)					yes	yes	yes
yes					yes	yes	yes
yes (no for 125 A)					yes	yes	yes
yes (no for 125 A)					yes	yes	yes

RCCBs

F 200 series AC ⏦ type



F202

F 200 AC type
Function: protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct contacts (with IΔn=30 mA).

Application: residential, commercial, industrial.
Standard: IEC/EN 61008-1; IEC/EN 61008-2-1
Marking: according to EN 61008-1; EN 61008-2-1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	10	16	779902	F202 AC-16/0.01	2CSF202001R0160		0.200	1/6
		25	738022	F202 AC-25/0.01	2CSF202001R0250		0.200	1/6
	30	25	780007	F202 AC-25/0.03	2CSF202001R1250		0.200	1/6
		40	780106	F202 AC-40/0.03	2CSF202001R1400		0.200	1/6
		63	780205	F202 AC-63/0.03	2CSF202001R1630		0.200	1/6
		80	914204	F202 AC-80/0.03	2CSF202001R1800		0.200	1/6
		100	914303	F202 AC-100/0.03	2CSF202001R1900		0.200	1/6
	100	25	780304	F202 AC-25/0.1	2CSF202001R2250		0.200	1/6
		40	780403	F202 AC-40/0.1	2CSF202001R2400		0.200	1/6
		63	780502	F202 AC-63/0.1	2CSF202001R2630		0.200	1/6
		80	914402	F202 AC-80/0.1	2CSF202001R2800		0.200	1/6
		100	914501	F202 AC-100/0.1	2CSF202001R2900		0.200	1/6
	300	25	780601	F202 AC-25/0.3	2CSF202001R3250		0.200	1/6
		40	780700	F202 AC-40/0.3	2CSF202001R3400		0.200	1/6
		63	780809	F202 AC-63/0.3	2CSF202001R3630		0.200	1/6
		80	914600	F202 AC-80/0.3	2CSF202001R3800		0.200	1/6
		100	914709	F202 AC-100/0.3	2CSF202001R3900		0.200	1/6
	500	25	780908	F202 AC-25/0.5	2CSF202001R4250		0.200	1/6
		40	781004	F202 AC-40/0.5	2CSF202001R4400		0.200	1/6
		63	781103	F202 AC-63/0.5	2CSF202001R4630		0.200	1/6
		80	914808	F202 AC-80/0.5	2CSF202001R4800		0.200	1/6
		100	914907	F202 AC-100/0.5	2CSF202001R4900		0.200	1/6

RCCBs

F 200 series AC ∿ type



F204



F204 125 A

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	25	781202	F204 AC-25/0.03	2CSF204001R1250		0.360	1/3
		40	781301	F204 AC-40/0.03	2CSF204001R1400		0.360	1/3
		63	781400	F204 AC-63/0.03	2CSF204001R1630		0.360	1/3
		80	916604	F204 AC-80/0.03	2CSF204001R1800		0.405	1/3
		100	916703	F204 AC-100/0.03	2CSF204001R1900		0.405	1/3
		125	941507	F204 AC-125/0.03	2CSF204001R1950		0.500	1
	100	25	781509	F204 AC-25/0.1	2CSF204001R2250		0.360	1/3
		40	781608	F204 AC-40/0.1	2CSF204001R2400		0.360	1/3
		63	781707	F204 AC-63/0.1	2CSF204001R2630		0.360	1/3
		80	916802	F204 AC-80/0.1	2CSF204001R2800		0.405	1/3
		100	916901	F204 AC-100/0.1	2CSF204001R2900		0.405	1/3
		125	941606	F204 AC-125/0.1	2CSF204001R2950		0.500	1
	300	25	781806	F204 AC-25/0.3	2CSF204001R3250		0.360	1/3
		40	781905	F204 AC-40/0.3	2CSF204001R3400		0.360	1/3
		63	782001	F204 AC-63/0.3	2CSF204001R3630		0.360	1/3
		80	917007	F204 AC-80/0.3	2CSF204001R3800		0.405	1/3
		100	917106	F204 AC-100/0.3	2CSF204001R3900		0.405	1/3
		125	941705	F204 AC-125/0.3	2CSF204001R3950		0.500	1
	500	25	782100	F204 AC-25/0.5	2CSF204001R4250		0.360	1/3
		40	782209	F204 AC-40/0.5	2CSF204001R4400		0.360	1/3
		63	782308	F204 AC-63/0.5	2CSF204001R4630		0.360	1/3
		80	917205	F204 AC-80/0.5	2CSF204001R4800		0.405	1/3
		100	917304	F204 AC-100/0.5	2CSF204001R4900		0.405	1/3
		125	941804	F204 AC-125/0.5	2CSF204001R4950		0.500	1

RCCBs

F 200 series AC ⏦ type, for overseas markets



F202

F 200 AC type (for overseas markets)
Function: protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct contacts (with IΔn=30 mA).

Application: residential, commercial, industrial.
Standard: IEC 61008-1; IEC 61008-2-1
Marking: according to IEC 61008-1; IEC 61008-2-1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	10	16	814603	F202 AC-16/0.01	2CSF202005R0160		0.200	1/6
	30	25	814702	F202 AC-25/0.03	2CSF202005R1250		0.200	1/6
		40	814801	F202 AC-40/0.03	2CSF202005R1400		0.200	1/6
		63	814900	F202 AC-63/0.03	2CSF202005R1630		0.200	1/6
		80	935902	F202 AC-80/0.03	2CSF202005R1800		0.200	1/6
		100	936008	F202 AC-100/0.03	2CSF202005R1900		0.200	1/6
	100	25	815006	F202 AC-25/0.1	2CSF202005R2250		0.200	1/6
		40	815105	F202 AC-40/0.1	2CSF202005R2400		0.200	1/6
		63	815204	F202 AC-63/0.1	2CSF202005R2630		0.200	1/6
		80	936107	F202 AC-80/0.1	2CSF202005R2800		0.200	1/6
		100	936206	F202 AC-100/0.1	2CSF202005R2900		0.200	1/6
	300	25	815303	F202 AC-25/0.3	2CSF202005R3250		0.200	1/6
		40	815402	F202 AC-40/0.3	2CSF202005R3400		0.200	1/6
		63	815501	F202 AC-63/0.3	2CSF202005R3630		0.200	1/6
		80	936305	F202 AC-80/0.3	2CSF202005R3800		0.200	1/6
		100	936404	F202 AC-100/0.3	2CSF202005R3900		0.200	1/6
	500	25	883302	F202 AC-25/0.5	2CSF202005R4250		0.200	1/6
		40	883401	F202 AC-40/0.5	2CSF202005R4400		0.200	1/6
		63	883500	F202 AC-63/0.5	2CSF202005R4630		0.200	1/6
		80	936503	F202 AC-80/0.5	2CSF202005R4800		0.200	1/6
		100	936602	F202 AC-100/0.5	2CSF202005R4900		0.200	1/6

RCCBs

F 200 series AC ⊡ type, for overseas markets



F204

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	25	817109	F204 AC-25/0.03	2CSF204005R1250		0.360	1/3
		40	817208	F204 AC-40/0.03	2CSF204005R1400		0.360	1/3
		63	817307	F204 AC-63/0.03	2CSF204005R1630		0.360	1/3
		80	936701	F204 AC-80/0.03	2CSF204005R1800		0.405	1/3
		100	936800	F204 AC-100/0.03	2CSF204005R1900		0.405	1/3
	100	25	817406	F204 AC-25/0.1	2CSF204005R2250		0.360	1/3
		40	817505	F204 AC-40/0.1	2CSF204005R2400		0.360	1/3
		63	817604	F204 AC-63/0.1	2CSF204005R2630		0.360	1/3
		80	936909	F204 AC-80/0.1	2CSF204005R2800		0.405	1/3
		100	937005	F204 AC-100/0.1	2CSF204005R2900		0.405	1/3
	300	25	817703	F204 AC-25/0.3	2CSF204005R3250		0.360	1/3
		40	817802	F204 AC-40/0.3	2CSF204005R3400		0.360	1/3
		63	817901	F204 AC-63/0.3	2CSF204005R3630		0.360	1/3
		80	937104	F204 AC-80/0.3	2CSF204005R3800		0.405	1/3
		100	937203	F204 AC-100/0.3	2CSF204005R3900		0.405	1/3
	500	25	883609	F204 AC-25/0.5	2CSF204005R4250		0.360	1/3
		40	883609	F204 AC-40/0.5	2CSF204005R4400		0.360	1/3
		63	883807	F204 AC-63/0.5	2CSF204005R4630		0.360	1/3
		80	937302	F204 AC-80/0.5	2CSF204005R4800		0.405	1/3
		100	937401	F204 AC-100/0.5	2CSF204005R4900		0.405	1/3

RCCBs

F 200 series AC ⏦ type left neutral



F204 left neutral



F204 left neutral 125 A

F 200 AC type with neutral pole on the left
Function: protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct contacts (with In=30 mA). Product helpful where for installation habits, for wiring with busbars or cables, for special needs neutral on the left is needed.

Application: residential, commercial, industrial.
Standard: IEC/EN 61008-1; IEC/EN 61008-2-1
Marking: according to EN 61008-1; EN 61008-2-1

Number of poles	Rated residual current In mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	25	815907	F204 AC-25/0.03	2CSF204023R1250		0.360	1/3
		40	816003	F204 AC-40/0.03	2CSF204023R1400		0.360	1/3
		63	816102	F204 AC-63/0.03	2CSF204023R1630		0.360	1/3
		80	917403	F204 AC-80/0.03	2CSF204023R1800		0.405	1/3
		100	917502	F204 AC-100/0.03	2CSF204023R1900		0.405	1/3
		125	975106	F204 AC-125/0.03	2CSF204023R1950		0.500	1
	100	25	816201	F204 AC-25/0.1	2CSF204023R2250		0.360	1/3
		40	816300	F204 AC-40/0.1	2CSF204023R2400		0.360	1/3
		63	816409	F204 AC-63/0.1	2CSF204023R2630		0.360	1/3
	300	25	816508	F204 AC-25/0.3	2CSF204023R3250		0.360	1/3
		40	816607	F204 AC-40/0.3	2CSF204023R3400		0.360	1/3
		63	816706	F204 AC-63/0.3	2CSF204023R3630		0.360	1/3
		80	917601	F204 AC-80/0.3	2CSF204023R3800		0.405	1/3
		100	917700	F204 AC-100/0.3	2CSF204023R3900		0.405	1/3
		125	975304	F204 AC-125/0.3	2CSF204023R3950		0.500	1
	500	25	816805	F204 AC-25/0.5	2CSF204023R4250		0.360	1/3
		40	816904	F204 AC-40/0.5	2CSF204023R4400		0.360	1/3
		63	817000	F204 AC-63/0.5	2CSF204023R4630		0.360	1/3

RCCBs

F 200 series A type



F202

F 200 A type

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts (with IΔn=30 mA).

Application: residential, commercial, industrial.
Standard: IEC/EN 61008-1; IEC/EN 61008-2-1
Marking: according to EN 61008-1; EN 61008-2-1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	10	16	782407	F202 A-16/0.01	2CSF202101R0160		0.200	1/6
	30	25	782506	F202 A-25/0.03	2CSF202101R1250		0.200	1/6
		40	782605	F202 A-40/0.03	2CSF202101R1400		0.200	1/6
		63	782704	F202 A-63/0.03	2CSF202101R1630		0.200	1/6
		80	915201	F202 A-80/0.03	2CSF202101R1800		0.200	1/6
		100	915300	F202 A-100/0.03	2CSF202101R1900		0.200	1/6
	100	25	786900	F202 A-25/0.1	2CSF202101R2250		0.200	1/6
		40	787006	F202 A-40/0.1	2CSF202101R2400		0.200	1/6
		63	787105	F202 A-63/0.1	2CSF202101R2630		0.200	1/6
		80	915409	F202 A-80/0.1	2CSF202101R2800		0.200	1/6
		100	915508	F202 A-100/0.1	2CSF202101R2900		0.200	1/6
	300	25	782803	F202 A-25/0.3	2CSF202101R3250		0.200	1/6
		40	782902	F202 A-40/0.3	2CSF202101R3400		0.200	1/6
		63	783008	F202 A-63/0.3	2CSF202101R3630		0.200	1/6
		80	915607	F202 A-80/0.3	2CSF202101R3800		0.200	1/6
		100	915706	F202 A-100/0.3	2CSF202101R3900		0.200	1/6
	500	25	783107	F202 A-25/0.5	2CSF202101R4250		0.200	1/6
		40	783206	F202 A-40/0.5	2CSF202101R4400		0.200	1/6
		63	783305	F202 A-63/0.5	2CSF202101R4630		0.200	1/6
		80	915805	F202 A-80/0.5	2CSF202101R4800		0.200	1/6
		100	915904	F202 A-100/0.5	2CSF202101R4900		0.200	1/6

RCCBs

F 200 series A type



F204



F204 125 A

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	25	783404	F204 A-25/0.03	2CSF204101R1250		0.360	1/3
		40	783503	F204 A-40/0.03	2CSF204101R1400		0.360	1/3
		63	783602	F204 A-63/0.03	2CSF204101R1630		0.360	1/3
		80	917809	F204 A-80/0.03	2CSF204101R1800		0.405	1/3
		100	917908	F204 A-100/0.03	2CSF204101R1900		0.405	1/3
		125	941903	F204 A-125/0.03	2CSF204101R1950		0.500	1
	100	25	787204	F204 A-25/0.1	2CSF204101R2250		0.360	1/3
		40	787303	F204 A-40/0.1	2CSF204101R2400		0.360	1/3
		63	787402	F204 A-63/0.1	2CSF204101R2630		0.360	1/3
		80	918004	F204 A-80/0.1	2CSF204101R2800		0.405	1/3
		100	918103	F204 A-100/0.1	2CSF204101R2900		0.405	1/3
		125	942009	F204 A-125/0.1	2CSF204101R2950		0.500	1
	300	25	783701	F204 A-25/0.3	2CSF204101R3250		0.360	1/3
		40	783800	F204 A-40/0.3	2CSF204101R3400		0.360	1/3
		63	783909	F204 A-63/0.3	2CSF204101R3630		0.360	1/3
		80	918202	F204 A-80/0.3	2CSF204101R3800		0.405	1/3
		100	918301	F204 A-100/0.3	2CSF204101R3900		0.405	1/3
		125	942108	F204 A-125/0.3	2CSF204101R3950		0.500	1
	500	25	784005	F204 A-25/0.5	2CSF204101R4250		0.360	1/3
		40	784104	F204 A-40/0.5	2CSF204101R4400		0.360	1/3
		63	784203	F204 A-63/0.5	2CSF204101R4630		0.360	1/3
		80	918400	F204 A-80/0.5	2CSF204101R4800		0.405	1/3
		100	918509	F204 A-100/0.5	2CSF204101R4900		0.405	1/3
		125	942207	F204 A-125/0.5	2CSF204101R4950		0.500	1

RCCBs

F 200 series A type left neutral



F204 left neutral



F204 left neutral 125 A

F 200 A type with neutral pole on the left
Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts (with IΔn=30 mA). Product helpful where for installation habits, for wiring with bus-bars or cables, for special needs neutral on the left is needed.

Application: residential, commercial, industrial.
Standard: IEC/EN 61008-1; IEC/EN 61008-2-1
Marking: according to EN 61008-1; EN 61008-2-1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	25	820109	F204 A-25/0.03	2CSF204123R1250		0.360	1/3
		40	820208	F204 A-40/0.03	2CSF204123R1400		0.360	1/3
		63	820307	F204 A-63/0.03	2CSF204123R1630		0.360	1/3
		80	918608	F204 A-80/0.03	2CSF204123R1800		0.405	1/3
		100	918707	F204 A-100/0.03	2CSF204123R1900		0.405	1/3
		125	967705	F204 A-125/0.03	2CSF204123R1950		0.500	1
	100	25	820406	F204 A-25/0.1	2CSF204123R2250		0.360	1/3
		40	820505	F204 A-40/0.1	2CSF204123R2400		0.360	1/3
		63	820604	F204 A-63/0.1	2CSF204123R2630		0.360	1/3
	300	25	820703	F204 A-25/0.3	2CSF204123R3250		0.360	1/3
		40	820802	F204 A-40/0.3	2CSF204123R3400		0.360	1/3
		63	820901	F204 A-63/0.3	2CSF204123R3630		0.360	1/3
		80	918806	F204 A-80/0.3	2CSF204123R3800		0.405	1/3
		100	918905	F204 A-100/0.3	2CSF204123R3900		0.405	1/3
		125	967804	F204 A-125/0.3	2CSF204123R3950		0.500	1
	500	25	821007	F204 A-25/0.5	2CSF204123R4250		0.360	1/3
		40	821106	F204 A-40/0.5	2CSF204123R4400		0.360	1/3
		63	821205	F204 A-63/0.5	2CSF204123R4630		0.360	1/3

RCCBs

F 200 series A type, AP-R (high immunity)



F202

F 200 AP-R, A type
Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing the best compromise between safety and continuity in the service thanks to the resistance to unwanted trippings; protection against indirect contacts and additional protection against direct contacts (IΔn=30 mA).

Application: residential, commercial, industrial.
Standard: IEC/EN 61008-1; IEC/EN 61008-2-1
Surge current resistance (wave 8/20)=3000 A
Marking: according to EN 61008-1; EN 61008-2-1



F204

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	25	785101	F202 A-25/0.03 AP-R	2CSF202401R1250		0.200	1/6
		40	785200	F202 A-40/0.03 AP-R	2CSF202401R1400		0.200	1/6
		63	785309	F202 A-63/0.03 AP-R	2CSF202401R1630		0.200	1/6
		80	916406	F202 A-80/0.03 AP-R	2CSF202401R1800		0.200	1/6
		100	916505	F202 A-100/0.03 AP-R	2CSF202401R1900		0.200	1/6



F204 125 A

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	25	785408	F204 A-25/0.03 AP-R	2CSF204401R1250		0.360	1/3
		40	785507	F204 A-40/0.03 AP-R	2CSF204401R1400		0.360	1/3
		63	785606	F204 A-63/0.03 AP-R	2CSF204401R1630		0.360	1/3
		80	919407	F204 A-80/0.03 AP-R	2CSF204401R1800		0.405	1/3
		100	919506	F204 A-100/0.03 AP-R	2CSF204401R1900		0.405	1/3
		125	967903	F204 A-125/0.03 AP-R	2CSF204401R1950		0.500	1

RCCBs

F 200 series A type, selective



F202



F204



F204 125 A

F 200 A selective type
Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents with an intentional tripping delay, which permits to realize the selectivity with downstream instantaneous devices (for more information about selectivity see the technical guide); protection against indirect contacts.

Application: commercial, industrial.
Standard: IEC/EN 61008-1; IEC/EN 61008-2-1
Surge current resistance (wave 8/20)=5000 A
Marking: according to EN 61008-1; EN 61008-2-1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	100	40	822905	F202 A S-40/0.1	2CSF202201R2400		0.200	1/6
		63	823001	F202 A S-63/0.1	2CSF202201R2630		0.200	1/6
		100	916000	F202 A S-100/0.1	2CSF202201R2900		0.200	1/6
	300	40	784302	F202 A S-40/0.3	2CSF202201R3400		0.200	1/6
		63	784401	F202 A S-63/0.3	2CSF202201R3630		0.200	1/6
		100	916109	F202 A S-100/0.3	2CSF202201R3900		0.200	1/6
	500	40	784500	F202 A S-40/0.5	2CSF202201R4400		0.200	1/6
		63	784609	F202 A S-63/0.5	2CSF202201R4630		0.200	1/6
		100	916208	F202 A S-100/0.5	2CSF202201R4900		0.200	1/6
	1000	40	823100	F202 A S-40/1	2CSF202201R5400		0.200	1/6
		63	823209	F202 A S-63/1	2CSF202201R5630		0.200	1/6
		100	916307	F202 A S-100/1	2CSF202201R5900		0.200	1/6

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	100	40	823308	F204 A S-40/0.1	2CSF204201R2400		0.360	1/3
		63	823407	F204 A S-63/0.1	2CSF204201R2630		0.360	1/3
		100	919001	F204 A S-100/0.1	2CSF204201R2900		0.405	1/3
	300	40	784708	F204 A S-40/0.3	2CSF204201R3400		0.360	1/3
		63	784807	F204 A S-63/0.3	2CSF204201R3630		0.360	1/3
		100	919100	F204 A S-100/0.3	2CSF204201R3900		0.405	1/3
		125	968207	F204 A S-125/0.3	2CSF204201R3950		0.500	1
	500	40	784906	F204 A S-40/0.5	2CSF204201R4400		0.360	1/3
		63	785002	F204 A S-63/0.5	2CSF204201R4630		0.360	1/3
		100	919209	F204 A S-100/0.5	2CSF204201R4900		0.405	1/3
		125	968405	F204 A S-125/0.5	2CSF204201R4950		0.500	1
	1000	40	823506	F204 A S-40/1	2CSF204201R5400		0.360	1/3
		63	823605	F204 A S-63/1	2CSF204201R5630		0.360	1/3
		100	919308	F204 A S-100/1	2CSF204201R5900		0.405	1/3

RCCBs

F 200 110V series A type



F202 110V



F204 110V

F 200 110V A type

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts (with IΔn=30 mA). This particular series of devices has the minimum operating voltage of test button of 110V and it is suitable for 230 V applications. This range is UL approved.

Application: residential, commercial, industrial.
Standard: IEC 61008-1; IEC 61008-2-1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	25	343332	F202 A-25/0.03 110V	2CSF202199R1250		0.200	1/6
		40	343233	F202 A-40/0.03 110V	2CSF202199R1400		0.200	1/6
		63	343134	F202 A-63/0.03 110V	2CSF202199R1630		0.200	1/6
		80	343035	F202 A-80/0.03 110V	2CSF202199R1800		0.200	1/6
		100	342939	F202 A-100/0.03 110V	2CSF202199R1100		0.200	1/6

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	25	776734	F204 A-25/0.03 110V	2CSF204199R1250		0.360	1/3
		40	342830	F204 A-40/0.03 110V	2CSF204199R1400		0.360	1/3
		63	342731	F204 A-63/0.03 110V	2CSF204199R1630		0.360	1/3
		80	358435	F204 A-80/0.03 110V	2CSF204199R1800		0.405	1/3
		100	079132	F204 A-100/0.03 110V	2CSF204199R1100		0.405	1/3

RCCBs

F 200 series A type for high frequency and railways applications



F202



F204

F 200 A type for high frequency (400 Hz)
Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct (with IΔn=30 mA) contacts.
Advantages: increasing the frequency generates an increase of the magnetic reluctance of the toroidal transformer of standard RCCB and what follows is the value of the increasing operating residual current at 400 Hz reaching values 3 or more times higher than those of the residual current at 50 Hz. The RCCB F 200 400 Hz guarantees protection against indirect contacts and additional protection against direct contacts (with IΔn=30 mA) considering that the operating residual current doesn't increase with the increase of the network frequency.

Application: commercial, industrial.
Standard: IEC/EN 61008-1; IEC/EN 61008-2-1
Marking: according to EN 61008-1; EN 61008-2-1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	25	968603	F204 A-25/0.03 400Hz	2CSF204197R1250		0.360	1/3
		40	968702	F204 A-40/0.03 400Hz	2CSF204197R1400		0.360	1/3

F200 A type 16 2/3 Hz
Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts (with IΔn=30 mA).
The RCCB F200 16 2/3 Hz can work at rated frequency of 16 2/3 Hz which is common in railways applications

Application: railways
Standard: IEC/EN 61008-1; IEC/EN 61008-2-1
Marking: according to EN 61008-1; EN 61008-2-1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	63	734536	F202 A-63/0.03 16-2/3Hz	2CSF202196R1630		0.200	1/6
	300	63	733638	F202 A-63/0.3 16-2/3Hz	2CSF202196R3630		0.200	1/6
	500	63	734437	F202 A-63/0.5 16-2/3Hz	2CSF202196R4630		0.200	1/6

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	63	733539	F204 A-63/0.03 16-2/3Hz	2CSF204196R1630		0.360	1/3
	300	63	734338	F204 A-63/0.3 16-2/3Hz	2CSF204196R3630		0.360	1/3
	500	63	733430	F204 A-63/0.5 16-2/3Hz	2CSF204196R4630		0.360	1/3

RCCBs

F 200 series F type



F202 F

F 200 series F type

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA). Specifically suitable for the protection of lines supplying single phase inverters.

Application: residential, commercial, industrial.
Standard: IEC/EN 61008-1; IEC/EN 61008-2-1
Surge current resistance (wave 8/20)=3000 A
Marking: according to EN 61008-1; EN 61008-2-1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	25	992738	F202 F-25/0.03	2CSF202325R1250		0.225	1/6
		40	992837	F202 F-40/0.03	2CSF202325R1400		0.225	1/6
		63	992936	F202 F-63/0.03	2CSF202325R1630		0.225	1/6
4	30	25	993032	F204 F-25/0.03	2CSF204325R1250		0.375	1/3
		40	993131	F204 F-40/0.03	2CSF204325R1400		0.375	1/3
		63	993230	F204 F-63/0.03	2CSF204325R1630		0.375	1/3

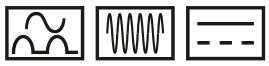
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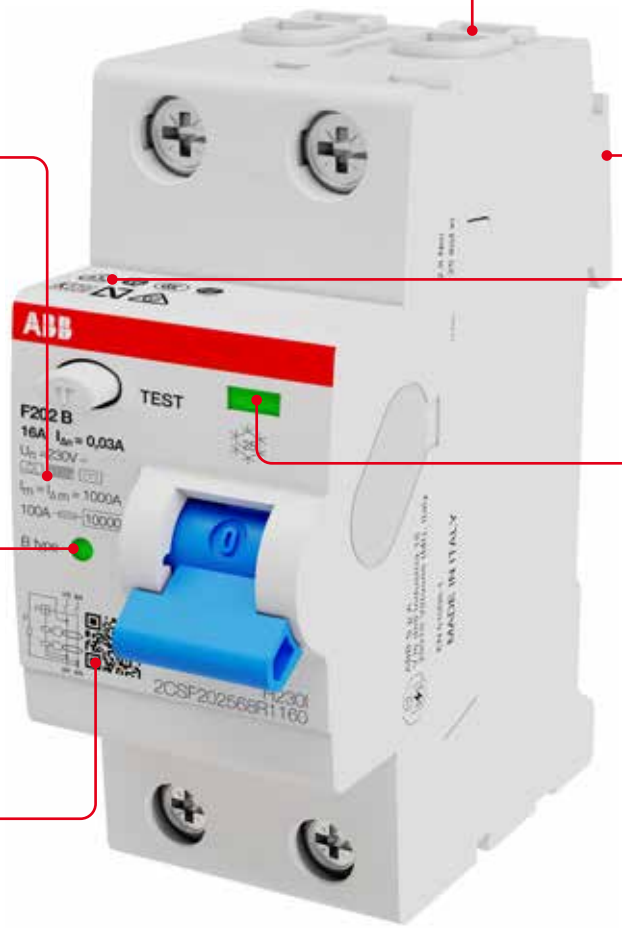
New F 200 series - B

Details that make the difference

Easy to connect thanks to the availability of two terminals slot and compatible with busbars thanks to the System pro M compact clamps

Type B residual current devices are marked according to EN 62423. The marking indicates the different current types that Type B residual current devices are sensitive to





Two-pole device in only two modules

VDE approved

Indication of the position of the contacts

Frontal LED for device status monitoring

QR code to product webpage

F 200 series - B

Details that make the difference

Compatibility
Compatible with all System Pro M compact accessories of F200 series. Higher operational continuity thanks to auto-reclosing units and motor operating devices.

Robustness to operating environment
Operating temperature from -25 °C to +70 °C (for system up to 32 A). High immunity against unwanted tripping.

Self-diagnostics feature
Pushing the TEST button it is possible to check the proper functionality of the device regarding AC fault currents. Together with it, the F200 B range is introducing a SELF-DIAGNOSTICS feature. Thanks to this, the device is able to continuously verify the status of the DC fault currents detection functionality: each few seconds, an internal micro-controller is able to check the status of the main electronic components as well as the firmware integrity of the Voltage Dependent PCBA.

Low power consumption and pollution degree 3
Extreme low stand by power consumption and pollution degree 3 features (for 16–63 A devices 30–300 mA) ensure great performance during the time.



Test push-button

Internal Self-Diagnostics

RCCBs

F 200 series - B type technical features

Standards			
Electrical features	Type (wave form of the earth leakage sensed)		
	Number of poles		
	Rated current I_n		A
	Rated sensitivity $I_{\Delta n}$		A
	Rated voltage U_e		V AC
	Insulation voltage U_i		V
	Operating voltage of circuit test U_t	IEC/EN	V
	Min. operating voltage for detecting Type A/AC residual currents		V AC
	Min. operating voltage for detecting Type B residual currents		V AC
	Rated frequency		Hz
	Frequency range of residual current		kHz
	Rated conditional short-circuit current Inc=I_Δ [3]	SCPD - fuse gG 100 A	kA
	Rated residual breaking capacity $I_{\Delta m}$=Im		kA
	Rated impulse withstand voltage (1.2/50) U_{imp}		kV
	Dielectric test voltage at ind. freq. for 1 min.		kV
	Overvoltage category		
	Pollution degree		
	Surge current resistance (wave 8/20)		A
	Maximum electronic consumption		W
Mechanical features	Housing		
	Toggle		
	Contact position indicator (CPI)		
	Electrical life		
	Mechanical life		
	Protection degree	housing	
		terminals	
	Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C/RH
	Shock resistance acc. to IEC/EN 60068-2-27		
	Vibration resistance acc. to IEC/EN 60068-2-6		
	Ambient temperature	IEC	°C
	Storage temperature		°C
Standards			
Installation	Terminal Type		
	Min/Max Terminal size top/bottom for cable	IEC	mm^2
	Terminal size top/bottom for busbar	IEC	mm^2
	Stripping length of the cable		
	Tightening torque	IEC	Nm
	Tool		
	Mounting		
	Supply from		
	Withdrawal from busbar		
Dimensions and weight	Dimensions (H × D × W)	2P	mm
	Weight	2P	g
Combination with auxiliary elements	Combinable with:		
	auxiliary contact		
	signal contact/auxiliary switch		
	motor operating device		
	shunt trip		
	undervoltage release		

[1] 500 mA devices
[2] Prior to connection of aluminium conductors (≥ 4 mm^2) ensure that their contact points are cleaned, brushed and coated with grease
[3] for S750-E 63A, S750DR-E/K 63A and other SCPD coordination values are available.
[4] Constant temperature

F200 B Type		**F200 B Type high ratings**
F202 B 16-63 A	**F204 B 25-63 A**	**F204 B 80-125 A**
IEC/EN 61008-1, IEC/EN 61008-2-1, EN 62423		
B	B, B-S	B
2P	4P	4P
16, 25, 40, 63	25, 40, 63	80, 125
0,03 - 0,3	0,03 - 0,3 - 0,5	0,03 - 0,3 - 0,5
230	230/400	230/400
440	440 - 500 [1]	400
110 - 253 V AC 170 - 253 V AC (30 mA)	110 - 253 V AC 170 - 253 V AC (30 mA)	150 - 250 V AC (80 A) 200 - 250 V AC (80 A, 30 mA) 200 - 440 V AC (125 A) 250 - 440 V AC (125A, 30 mA)
0	0	0
50	50	50
50/60	50/60	50
2	2	100
10	10	10 (fuse gG 125 A)
1	1	125 A: 1,25 80 A: 1
4	4	4
2,5	2,5	2,5
III, disconnector abilities	III, disconnector abilities	III, disconnector abilities
2		
3.000	3.000 - 5.000 (B S)	3.000 - 5.000 (B S)
0,3	1,2 (3,5[1])	
Insulation group I-II; RAL 7035		
Insulation group I-II; RAL 5015		
yes	yes	yes
10.000	10.000	2.000
20.000	20.000	5.000
IP4X	IP4X	IP4X
IP2X	IP2X	IP2X
28 cycles with 55°C/90-96% and 25°C/95-100%		
25g - 2 shocks - 13ms		
0.1 mm or 1 g - 20 cycles at 5…150…5 Hz		
-25…+70 (for system current <= 32 A[4]) -25…+65 for system current = 40 A[4] -25…+50 for system current = 63 A[4] For other system current see derating table		-25…+40
-40…+70	-40…+70	-40…+70
IEC/EN 61008-1, IEC/EN 61008-2-1, EN 62423		
Failsafe bi-directional cylinder-lift terminal at top and bottom (shock protected) (cage for I_n > 63 A) [2]		
1 - 25	1 - 25	50
10/10	10/10	
12 mm (for In=80-100 A 12,7 mm Top terminals and 14,9 mm Bottom terminals)		
2,8	2,8	3
Flat tip PZ2		
Any position on DIN rail EN 60715 (35 mm) by means of fast clip device		
Top/bottom		
It is possible without using any tools only from the bottom		no
85 × 69 × 35	85 × 69 × 70	85 × 69,5 × 72
220	380	500
yes	yes	no
yes	yes	yes
yes	yes	no
yes	yes	no
yes	yes	no

RCCBs

F 200 series - B type

F200 B Type from 16 to 63 A



F202 B



F204 B

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	16	341154	F202 B-16/0,03	2CSF202568R1160		0,220	1
		25	341253	F202 B-25/0,03	2CSF202568R1250		0,220	1
		40	341352	F202 B-40/0,03	2CSF202568R1400		0,220	1
		63	341154	F202 B-63/0,03	2CSF202568R1630		0,220	1
	300	16	341451	F202 B-16/0,3	2CSF202568R3160		0,220	1
		25	341550	F202 B-25/0,3	2CSF202568R3250		0,220	1
		40	341659	F202 B-40/0,3	2CSF202568R3400		0,220	1
		63	341758	F202 B-63/0,3	2CSF202568R3630		0,220	1
4	30	25	341857	F204 B-25/0,03	2CSF204568R1250		0,380	1
		40	341956	F204 B-40/0,03	2CSF204568R1400		0,380	1
		63	342052	F204 B-63/0,03	2CSF204568R1630		0,380	1
	300	25	342151	F204 B-25/0,3	2CSF204568R3250		0,380	1
		40	342250	F204 B-40/0,3	2CSF204568R3400		0,380	1
		63	342359	F204 B-63/0,3	2CSF204568R3630		0,380	1
	300 S	40	342458	F204 B S-40/0,3	2CSF204868R3400		0,380	1
		63	342557	F204 B S-63/0,3	2CSF204868R3630		0,380	1
	500	40	776932	F204 B-40/0,5[2]	2CSF204592R4400		0,380	1
		63	347637	F204 B-63/0,5[2]	2CSF204592R4630		0,380	1
	500 S	40	357834	F204 B S-40/0,5[2]	2CSF204892R4400		0,380	1
		63	347538	F204 B S-63/0,5[2]	2CSF204892R4630		0,380	1
2	30	25	356356	F202 B-25/0,03 U	2CSF202568U1250		0,220	48
4	30	25	356158	F204 B-25/0,03 U	2CSF204568U1250		0,380	24
		40	355953	F204 B-40/0,03 U	2CSF204568U1400		0,380	24
		63	356059	F204 B-63/0,03 U	2CSF204568U1630		0,380	24
	300	63	356257	F204 B-63/0,3 U	2CSF204568U3630		0,380	24

F200 B Type high ratings



F204 B 80, 125 A

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	80	988601	F204B-80/0,03[2]	2CSF204501R1800		0,460	1
		125	988700	F204B-125/0,03L[1,2]	2CSF204523R1950		0,460	1
	300	80	989103	F204B-80/0,3[2]	2CSF204501R3800		0,460	1
		125	989202	F204B-125/0,3L[1,2]	2CSF204523R3950		0,460	1
	300 S	125	989509	F204BS-125/0,3L[1,2]	2CSF204823R3950		0,460	1
	500	125	730439	F204B-125/0,5L[1,2]	2CSF204523R4950		0,460	1
	500 S	125	731238	F204BS-125/0,5L[1,2]	2CSF204823R4950		0,460	1

[1] Left-sided neutral pole
[2] No-self-diagnostics

Notes

RCCBs
F-ATI and F-ARI



F-ATI and F-ARI Test are RCCBs equipped with automatic test features. RCCBs are supposed to be checked every six months in order to make sure that the contacts are working properly and the device is able to trip in case of a leakage to earth. This swift operation affects the operational continuity of the circuits downstream and required a lot of man power. F-ATI and F-ARI test ranges push the periodic test to another level as this is run automatically and with no interruption at all of the service. Therefore, also the operations carried out by maintenance personnel are reduced to the very minimum.
In addition to the automatic test, F-ARI Range features a reclosing unit that tries to reclose the RCCB as it trips. The reclosing operations are based on an insulation check to make sure that no permanent fault is present. The insulation check is done with a very low current with no danger for human at any time. Once the insulation check is positive the reclosing unit
recloses the RCCB again. Moreover, the results coming from each and every circuit are
collected at once thanks to ARBus interface.

- Saving: maintenance costs are cut down as the device runs automatically the test monthly in accordance with EN 61008 provisions.
- Uptime: while running the test, no disconnection of the supply occurs like in the traditional RCCB units.
- Time saving: a full array of maximum 99 devices can be commanded and read by remote by the means of the ARBus interface.
- Easy installation: the unit is factory fitted and it needs no coupling
- Quality: F-ATI Test range is approved by VDE while F-ARI Test is approved by IMQ CSV.
- Smart: complete monitoring over the application thanks to a fault check system and a programmable aux contact
- Reliability: Suitable for demanding environments up to 60 °C
- High immunity: RCCBs Type A APR offer the adequate solution according to the type of loads to be protected , the level of safety and the continuity of service.

RCCBs

F-ATI and F-ARI technical features

			F-ATI Test	F-ARI Test
Reference Standards	EN61008-1 , VDE V 0664-120 (annex M)		EN61008-1 , CPT054, EN50557	
Electrical features	Distribution system		TN, TT, IT	TN, TT
	Rated voltage Ue		230-400 V a.c. -15% ÷ 10%	
	Rated frequency		50 Hz	
	Rated current In	A	25, 40, 63	
	Rated sensitivity IΔn	mA	30, 300	
	Type		A AP-R	
	Poles		2P, 4P	
	Insulation voltage Ui	V d.c.	500	
	Minimum test voltage Utmin	V a.c.	195	
	Rated non-operating resistance between live parts and earth Rdo		8 kΩ (30 mA), 2,5 kΩ(300 mA)	
	Rated operating resistance between live parts and earth Rd		16 kΩ (30 mA), 5 kΩ (300 mA)	
	Rated conditional short-circuit Inc		10 kA (SCPD – gL fuse 63 A for In 25, 40 A; gL fuse 80 A for In 63 A)	
	Dielectric test voltage at ind. freq. for 1 min	kV	2,5	
	Rated impulse withstand voltage (1,2/50) Uimp	kV	4	
	Power loss		2P: 2.2 W (25 A); 5.4 W (40 A); 6.2 W (63 A) 4P: 3.5 W (25 A); 6 W (40 A); 12 W (63 A)	
	Power consumption during operation	VA	41	
Other features	Test cycle time	s	< 7	
	Reclosing time	s	< 10 (6 s check, 3 s reclosing)	
Mechanical features	Protection degree		IP20 (terminals), IP40 (housing)	
	Contact position indicator CPI		yes	
	Mechanical life		4000	
Installation	Tightening torque	Nm	2	
	Ambient temperature with daily average <= 35 °C	°C	-25...+60 °C	
	Storage temperature	°C	-40...+70 °C	
Auxiliary contact	Type		NO-NC-NO+pulse (100 ms)	
	Operating features		5 ÷ 230 V a.c./d.c. Imax 100 mA	
	Terminals cross section	mm^2	2,5	
	Tightening torque	Nm	0,4	
Dimensions	DIN modules		5, 7	
	Weight	g	550, 900	

			ARBus
Electrical features	Rated voltage Ue	V	230 V a.c. -15% ÷ 10%
	Rated frequency	Hz	50
	Insulation voltage Ui	V	500 V d.c.
	Rated conditional short-circuit Inc	kA	10 kA (SCPD – gL fuse 63 A for In 25, 40 A; gL fuse 80 A for In 63 A)
	Rated impulse withstand voltage (1,2/50) Uimp	kV	4
	Power consumption	W	1
Installation	Terminals	mm2	2,5
	Tightening torque	Nm	0,4
	Ambient temperature with daily average <= 35°C	°C	-25...+60 °C
	Storage temperature	°C	-40...+70 °C
Communication	Protocol		Modbus RS485
	Baud rate		38400
	Addresses		1...99
Dimensions and weight	DIN modules		1
	Weight	GR	180

RCCBs

F-ATI and F-ARI



F-ATI 2 Test



F-ARI 4 Test

F-ATI

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1P+N	30	25	288855	F-ATI2Test A-25/0.03	2CSF302130R1250		0.550	5
		40	288954	F-ATI2Test A-40/0.03	2CSF302130R1400		0.550	5
		63	289050	F-ATI2Test A-63/0.03	2CSF302130R1630		0.550	5
3P+N	30	25	289159	F-ATI4Test A-25/0.03	2CSF304130R1250		0.900	7
		40	289258	F-ATI4Test A-40/0.03	2CSF304130R1400		0.900	7
		63	289357	F-ATI4Test A-63/0.03	2CSF304130R1630		0.900	7
	300	25	289456	F-ATI4Test A-25/0.3	2CSF304130R3250		0.900	7
		40	289555	F-ATI4Test A-40/0.3	2CSF304130R3400		0.900	7
		63	289654	F-ATI4Test A-63/0.3	2CSF304130R3630		0.900	7

F-ARI Test

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1P+N	30	25	289753	F-ARI2Test A-25/0.03	2CSF302131R1250		0.550	5
		40	289852	F-ARI2Test A-40/0.03	2CSF302131R1400		0.550	5
		63	293453	F-ARI2Test A-63/0.03	2CSF302131R1630		0.550	5
3P+N	30	25	289951	F-ARI4Test A-25/0.03	2CSF304131R1250		0.900	7
		40	290056	F-ARI4Test A-40/0.03	2CSF304131R1400		0.900	7
		63	290155	F-ARI4Test A-63/0.03	2CSF304131R1630		0.900	7
	300	25	290254	F-ARI4Test A-25/0.3	2CSF304131R3250		0.900	7
		40	290353	F-ARI4Test A-40/0.3	2CSF304131R3400		0.900	7
		63	290452	F-ARI4Test A-63/0.3	2CSF304131R3630		0.900	7

RCCBs

F-ATI and F-ARI

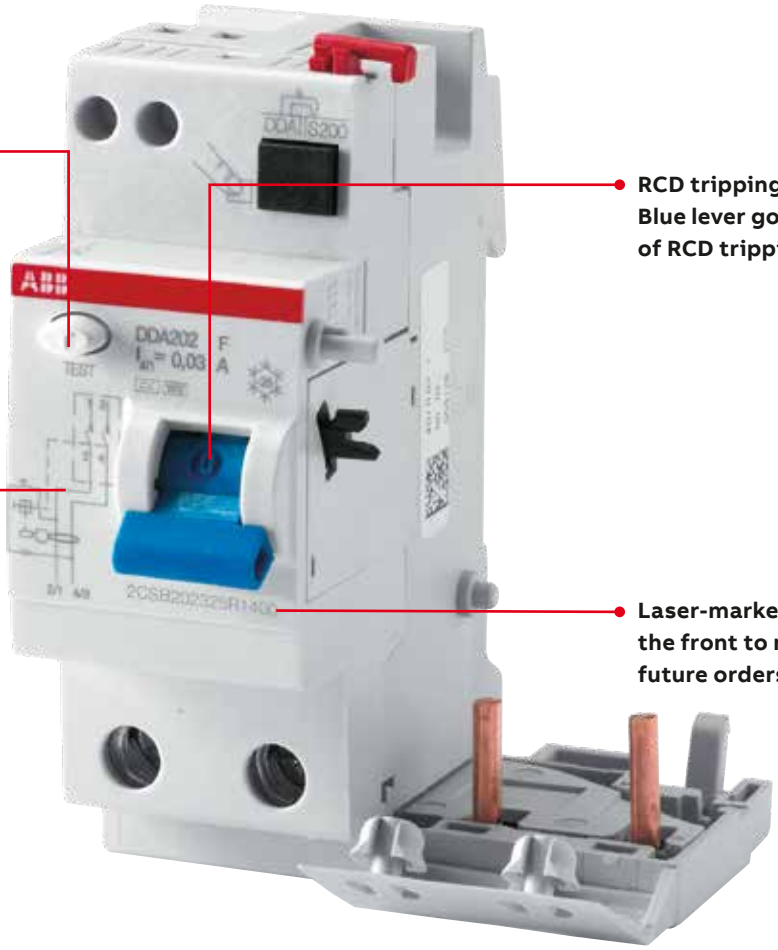


ARBus

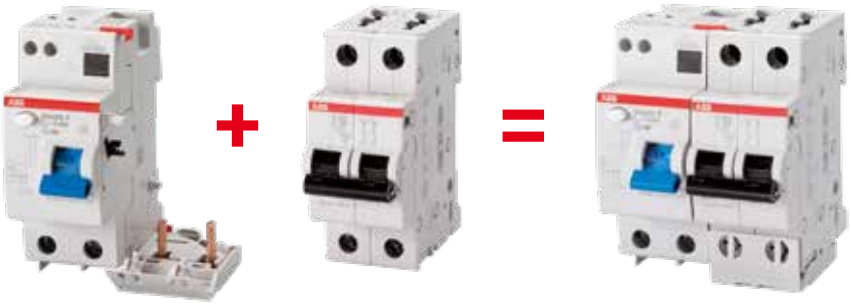
Gamma ARBus

	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
ARBus	293354		2CSF300130R1989		0.180	1

DDA 200
The details make the difference
A range designed to ensure efficiency and protection



DDA200 RCD block mounted with S200 MCB.



DDA200 RCD block

S200 MCB

RCBO



Flexibility
DDA200 is suitable for mounting with S200 extensive range of MCBs, covering applications up to 63A with breaking capacity up to 25kA.



RCD block DDA200 can be used in ambient conditions where the temperature of the surrounding atmosphere has values between -25 °C (snowflake laser printed on the front of the device) and +55 °C.



Possibility to connect a remote test button for 63A versions.



No misuse
Mistakes in assembling the MCB on the DDA200 are avoided thanks to a mechanical key that avoids mounting an MCB with higher rated current than the RCD block.

RCD-blocks

DDA 200 technical features



DDA 200

Standards		
Type (wave form of the earth leakage sensed)		
Rated current I_n		[A]
Number of poles		
Rated voltage U_e	2P	[V]
	3P	
	4P	
Insulation voltage U_i		[V]
Pollution degree		
Operating voltage of circuit test U_t	2P	[V]
	3P	
	4P	
Rated frequency		[Hz]
Rated breaking capacity according to	IEC EN 61009	[A]
Rated breaking capacity according to	IEC EN 60947-2	[A]
Rated residual breaking capacity $I_{\Delta m}$		[kA]
Rated inpulse withstand capacity (1,2/50) U_{imp}		[kV]
Dielectric test voltage at ind. freq. for 1 min.		[kV]
Surge current resistance (wave 8/20)		[A]
Rated sensitivity $I_{\Delta n}$		[A]
Housing		
Toggle		
Electrical life		
Mechanical life		
Protection degree	housing	
	terminals	
Environmental conditions (damp heat) acc. to	IEC/EN 60068-2-30	[°C/RH]
Shock resistance acc. to	IEC/EN 60068-2-27	
Vibration resistance acc. to	IEC/EN 60068-2-6	
Ambient temperature (with daily average ≤ +35 °C)		[°C]
Storage temperature		[°C]
Terminal type	2P	
	3P/4P I_n=25 and 40 A	
	3P/4P I_n=63 A	
Terminal size	2P	[mm²]
	3P/4P I_n=25 and 40 A	[mm²]
	3P/4P I_n=63 A	[mm²]
Tightening torque	2P	[Nm]
	3P/4P I_n=25 and 40 A	[Nm]
	3P/4P I_n=63 A	[Nm]
Stripping length of the cable		
Mounting		
Mounting position		
Dimensions	2P	[mm]
H x P x L	3P/4P I_n=25 and 40 A	[mm]
	3P/4P I_n=63 A	[mm]
Weight	2P	[g]
	3P/4P I_n=25 and 40 A	[g]
	3P/4P I_n=63 A	[g]
Combinable with	S 200 L	
	S 200	
	S 200 M	
	S 200 P	

① All RCD-blocks DDA 200 with rated current 63 A are provided with two additional terminals for remote tripping.
② DDA200 A AE is provided with two additional terminals for remote release in positive safety.
A remote control circuit should be connected to those terminals where circuit breakers or push buttons with normally closed contacts should be inserted.

RCD-blocks

DDA 200 technical features

DDA 200 AC	DDA 200 A	DDA 200 A AP-R	DDA 200 A AE	DDA 200 A S	DDA 200 F	DDA 200 B
IEC/EN 61009-1 Ann. G; IEC/EN 61009-2-1					IEC/EN 61009 App.G, IEC/EN 62423 2nd ed	IEC/EN 61009-1 Ann. G; IEC/EN 61009-2-1, IEC EN 62423
AC	A	A	A	A	F	B
25, 40, 63 ①		25, 40, 63 ①	63 ②	63 ①	40, 63 A1 (to mount with MCB with In = 0,5…63A)	25-40-63
2P, 3P, 4P					2P	2P, 3P, 4P
230 (400 for special execution @400 V)			230	230	230	230
230/400			400	400	-	400
230/400			230/400	230/400	-	230/400
500						
2						
110-254 for special execution @110V; 195-254 (170-254 for 30 mA; 400 for special execution @400 V)			184-264	195-254 (170-254 for 30 mA)	254/170	195-254 (170-254 for 30 mA)
195-440 (300-440 for 30 mA; 110-254 for special execution @110 V)			310-440	195-440 (300-440 for 30 mA)	-	310-440 (300-440 for 30 mA)
195-440 (300-440 for 30 mA; 110-254 for special execution @110 V)			184-264	195-440 (300-440 for 30 mA)	-	195-254 (300-440 for 30 mA)
50/60						
same of the coupled MCB						
same of the coupled MCB						
same of the coupled MCB						
4						
2,5						
NA		3000	NA	5000	3000	3000 (5000 for selective types)
0.01-0.03-0.1-0.3-0.5-1		0.03	0.03-0.3-0.5-1	0.1-0.3-0.5-1	-	0.03 - 0.3 - 0.5
RAL 7035						
RAL 7035						
10000						
20000						
IP4X						
IP2X						
28 cycles with 55°C/90-96% and 25°C/95-100%						
25g - 2 shocks - 13ms						
0.1 mm or 1 g - 20 cycles at 5…150…5 Hz						
-25…+55						
-40…+70						
bi-directional cylinder-lift					Top: failsafe bi-directional cylinder-lift terminal (shock protected) Bottom: failsafe cylinder-lift terminal (shock protected)	bi-directional cylinder-lift
cage type					-	-
bi-directional cylinder-lift					-	bi-directional cylinder-lift
(rigid or flexible) up to 25						
(rigid or flexible) up to 16					-	-
(rigid or flexible) up to 25					-	(rigid or flexible) up to 25
2.8						
1.2					-	-
2.8					-	2.8
12,5 mm (10,2 mm for the additional terminals for remote tripping, only for In=63A)						
on DIN rail EN 60715 (35 mm) by means of fast clip device						
Any						
85 x 69 x 35					93 x 69 x 69,5	85 x 69 x 70
85 x 69 x 35					-	85 x 69 x 70
85 x 69 x 70					-	85 x 69 x 70
175					180	350
175					-	375
325					-	395
yes					-	yes
yes					-	yes
yes					-	yes
yes					-	yes

RCD-blocks

DDA 200 series AC ⏦ type



DDA 202



DDA 203

DDA 200 AC type

Function: RCD-block for assembly on site with MCBs S 200 series. Protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct contacts (with IΔn=30 mA).

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1 Ann. G; IEC/EN 61009-2-1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	10	25	791003	DDA202 AC-25/0.01	2CSB202001R0250		0.180	1
	30	25	791102	DDA202 AC-25/0.03	2CSB202001R1250		0.180	1
		40	791201	DDA202 AC-40/0.03	2CSB202001R1400		0.180	1
		63 ②	791300	DDA202 AC-63/0.03	2CSB202001R1630		0.180	1
	100	25	791409	DDA202 AC-25/0.1	2CSB202001R2250		0.180	1
		40	791508	DDA202 AC-40/0.1	2CSB202001R2400		0.180	1
		63 ②	791607	DDA202 AC-63/0.1	2CSB202001R2630		0.180	1
	300	25	791706	DDA202 AC-25/0.3	2CSB202001R3250		0.180	1
		40	791805	DDA202 AC-40/0.3	2CSB202001R3400		0.180	1
		63 ②	791904	DDA202 AC-63/0.3	2CSB202001R3630		0.180	1
	500	25	792000	DDA202 AC-25/0.5	2CSB202001R4250		0.180	1
		40	792109	DDA202 AC-40/0.5	2CSB202001R4400		0.180	1
		63 ②	792208	DDA202 AC-63/0.5	2CSB202001R4630		0.180	1
	1000	25	808305	DDA202 AC-25/1	2CSB202001R5250		0.180	1
		40	808404	DDA202 AC-40/1	2CSB202001R5400		0.180	1
		63 ②	792307	DDA202 AC-63/1	2CSB202001R5630		0.180	1
	2000	63	792406	DDA202 AC-63/2	2CSB202001R6630		0.180	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3	30	25	792505	DDA203 AC-25/0.03	2CSB203001R1250		0.220	1
		40	792604	DDA203 AC-40/0.03	2CSB203001R1400		0.220	1
		63 ②	792703	DDA203 AC-63/0.03	2CSB203001R1630		0.260	1
	100	25	792802	DDA203 AC-25/0.1	2CSB203001R2250		0.220	1
		40	792901	DDA203 AC-40/0.1	2CSB203001R2400		0.220	1
		63 ②	793007	DDA203 AC-63/0.1	2CSB203001R2630		0.260	1
	300	25	793106	DDA203 AC-25/0.3	2CSB203001R3250		0.220	1
		40	793205	DDA203 AC-40/0.3	2CSB203001R3400		0.220	1
		63 ②	793304	DDA203 AC-63/0.3	2CSB203001R3630		0.260	1
	500	25	793403	DDA203 AC-25/0.5	2CSB203001R4250		0.220	1
		40	793502	DDA203 AC-40/0.5	2CSB203001R4400		0.220	1
		63 ②	793601	DDA203 AC-63/0.5	2CSB203001R4630		0.260	1
	1000	25	808503	DDA203 AC-25/1	2CSB203001R5250		0.220	1
		40	808602	DDA203 AC-40/1	2CSB203001R5400		0.220	1
		63 ①②	793700	DDA203 AC-63/1	2CSB203001R5630		0.260	1
	2000	63	793809	DDA203 AC-63/2	2CSB203001R6630		0.260	1

① version with test button working at 110VAC - 254VAC is available. For selection tables refer to special version paragraph.
② provided with additional terminals for remote tripping.

RCD-blocks

DDA 200 series AC type



DDA 204

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	25	793908	DDA204 AC-25/0.03	2CSB204001R1250		0.260	1
		40	794004	DDA204 AC-40/0.03	2CSB204001R1400		0.260	1
		63 ①②	794103	DDA204 AC-63/0.03	2CSB204001R1630		0.305	1
	100	25	794202	DDA204 AC-25/0.1	2CSB204001R2250		0.260	1
		40	794301	DDA204 AC-40/0.1	2CSB204001R2400		0.260	1
		63 ②	794400	DDA204 AC-63/0.1	2CSB204001R2630		0.305	1
	300	25	794509	DDA204 AC-25/0.3	2CSB204001R3250		0.260	1
		40	794608	DDA204 AC-40/0.3	2CSB204001R3400		0.260	1
		63 ②	794707	DDA204 AC-63/0.3	2CSB204001R3630		0.305	1
	500	25	794806	DDA204 AC-25/0.5	2CSB204001R4250		0.260	1
		40	794905	DDA204 AC-40/0.5	2CSB204001R4400		0.260	1
		63 ②	795001	DDA204 AC-63/0.5	2CSB204001R4630		0.305	1
	1000	25	808701	DDA204 AC-25/1	2CSB204001R5250		0.260	1
		40	808800	DDA204 AC-40/1	2CSB204001R5400		0.260	1
		63 ②	795100	DDA204 AC-63/1	2CSB204001R5630		0.305	1
	2000	63	795209	DDA204 AC-63/2	2CSB204001R6630		0.305	1

① version with test button working at 110VAC - 254VAC is available. For selection tables refer to special version paragraph.
② provided with additional terminals for remote tripping.

RCD-blocks

DDA 200 series A type



DDA 202



DDA 203

DDA 200 A type

Function: RCD-block for assembly on site with MCBs S 200 series. Protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts (with IΔn=30 mA).

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1 Ann. G; IEC/EN 61009-2-1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	10	25	795308	DDA202 A-25/0.01	2CSB202101R0250		0.180	1
	30	25	795407	DDA202 A-25/0.03	2CSB202101R1250		0.180	1
		40	795506	DDA202 A-40/0.03	2CSB202101R1400		0.180	1
		63 ②	795605	DDA202 A-63/0.03	2CSB202101R1630		0.180	1
	100	25	795704	DDA202 A-25/0.1	2CSB202101R2250		0.180	1
		40	795803	DDA202 A-40/0.1	2CSB202101R2400		0.180	1
		63 ②	795902	DDA202 A-63/0.1	2CSB202101R2630		0.180	1
	300	25	796008	DDA202 A-25/0.3	2CSB202101R3250		0.180	1
		40	796107	DDA202 A-40/0.3	2CSB202101R3400		0.180	1
		63 ②	796206	DDA202 A-63/0.3	2CSB202101R3630		0.180	1
	500	25	796305	DDA202 A-25/0.5	2CSB202101R4250		0.180	1
		40	796404	DDA202 A-40/0.5	2CSB202101R4400		0.180	1
		63 ②	796503	DDA202 A-63/0.5	2CSB202101R4630		0.180	1
	1000	25	808909	DDA202 A-25/1	2CSB202101R5250		0.180	1
		40	809005	DDA202 A-40/1	2CSB202101R5400		0.180	1
		63 ②	796602	DDA202 A-63/1	2CSB202101R5630		0.180	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3	30	25	796701	DDA203 A-25/0.03	2CSB203101R1250		0.220	1
		40 ①	796800	DDA203 A-40/0.03	2CSB203101R1400		0.220	1
		63 ①②	796909	DDA203 A-63/0.03	2CSB203101R1630		0.260	1
	100	25	797005	DDA203 A-25/0.1	2CSB203101R2250		0.220	1
		40	797104	DDA203 A-40/0.1	2CSB203101R2400		0.220	1
		63 ②	797203	DDA203 A-63/0.1	2CSB203101R2630		0.260	1
	300	25	797302	DDA203 A-25/0.3	2CSB203101R3250		0.220	1
		40	797401	DDA203 A-40/0.3	2CSB203101R3400		0.220	1
		63 ②	797500	DDA203 A-63/0.3	2CSB203101R3630		0.260	1
	500	25	797609	DDA203 A-25/0.5	2CSB203101R4250		0.220	1
		40	797708	DDA203 A-40/0.5	2CSB203101R4400		0.220	1
		63 ②	797807	DDA203 A-63/0.5	2CSB203101R4630		0.260	1
	1000	25	809104	DDA203 A-25/1	2CSB203101R5250		0.220	1
		40	809203	DDA203 A-40/1	2CSB203101R5400		0.220	1
		63 ②	797906	DDA203 A-63/1	2CSB203101R5630		0.260	1

① version with test button working at 110VAC - 254VAC is available. For selection tables refer to special version paragraph.
② provided with additional terminals for remote tripping.

RCD-blocks

DDA 200 series A type



DDA 204

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	25	798002	DDA204 A-25/0.03	2CSB204101R1250		0.260	1
		40	798101	DDA204 A-40/0.03	2CSB204101R1400		0.260	1
		63 ①②	798200	DDA204 A-63/0.03	2CSB204101R1630		0.305	1
	100	25	798309	DDA204 A-25/0.1	2CSB204101R2250		0.260	1
		40	798408	DDA204 A-40/0.1	2CSB204101R2400		0.260	1
		63 ②	798507	DDA204 A-63/0.1	2CSB204101R2630		0.305	1
	300	25	798606	DDA204 A-25/0.3	2CSB204101R3250		0.260	1
		40	798705	DDA204 A-40/0.3	2CSB204101R3400		0.260	1
		63 ②	798804	DDA204 A-63/0.3	2CSB204101R3630		0.305	1
	500	25	798903	DDA204 A-25/0.5	2CSB204101R4250		0.260	1
		40	799009	DDA204 A-40/0.5	2CSB204101R4400		0.260	1
		63 ②	799108	DDA204 A-63/0.5	2CSB204101R4630		0.305	1
	1000	25	809302	DDA204 A-25/1	2CSB204101R5250		0.260	1
		40	809401	DDA204 A-40/1	2CSB204101R5400		0.260	1
		63 ②	799207	DDA204 A-63/1	2CSB204101R5630		0.305	1

① version with test button working at 110VAC - 254VAC is available. For selection tables refer to special version paragraph.
② provided with additional terminals for remote tripping.

RCD-blocks

DDA 200 special version 110 V and 400 V



DDA 202



DDA 203



DDA 204

DDA 200 special version 110 V and 400 V
Function: special version of RCD-blocks to assembly on site with MCBs S 200 series. Special version are available with protection against the effects of sinusoidal alternating and/or direct pulsating earth fault currents, protection against indirect contacts and additional protection against direct contacts (with IΔn=30 mA).
DDA200 110 V is a particular RCD-block with voltage range for test button Ut = 110-254 V. RCD- blocks work for naval applications where the IT system is typically used and the voltage between the phase and the neutral conductor is 115 - 125 V. DDA200 110 V (Ut = 110-254 V) are suitable for naval applications.
Special version is also available for 400 V in the two poles version working in two-phase industrial systems where voltage between phases is 400 V.

Applications: naval, industrial.
Standards: IEC 61009-1 Ann. G; IEC 61009-2-1

110 V version

AC type

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order details Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	63 ①	929901	DDA 204 AC-63/0.03 110V	2CSB204099R1630		0.350	1

A type

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order details Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	25	079033	DDA202 A-25/0.03 110V	2CSB202199R1250		0.180	1
		40	078937	DDA202 A-40/0.03 110V	2CSB202199R1400		0.180	1
		63 ①	078838	DDA202 A-63/0.03 110V	2CSB202199R1630		0.180	1
3	30	40	811701	DDA 203 A-40/0.03 110V	2CSB203199R1400		0.350	1
		63 ①	811800	DDA 203 A-63/0.03 110V	2CSB203199R1630		0.350	1
4	30	63 ①	812104	DDA 204 A-63/0.03 110V	2CSB204199R1630		0.350	1

400 V version

A type

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order details Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	63 ①	954934	DDA 202 A-63/0.03 400V	2CSB202192R1630		0.200	1

① provided with additional terminals for remote tripping.

RCD-blocks

DDA 200 series A type, AP-R (high immunity)



DDA 202



DDA 203



DDA 204

DDA 200 AP-R, A type
Function: RCD-block for assembly on site with MCBs S 200 series. Protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing the best compromise between safety and continuity in the service thanks to the resistance to unwanted trippings; protection against indirect contacts and additional protection against direct contacts (with IΔn=30 mA).

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1 Ann. G; IEC/EN 61009-2-1
Surge current resistance (wave 8/20)=3000 A

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	25	801108	DDA202 A-25/0.03 AP-R	2CSB202401R1250		0.180	1
		40	801207	DDA202 A-40/0.03 AP-R	2CSB202401R1400		0.180	1
		63 ①	801306	DDA202 A-63/0.03 AP-R	2CSB202401R1630		0.180	1
	300	63	961932	DDA202 A-63/0,3 AP-R	2CSB202401R3630		0,260	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3	30	25	811008	DDA203 A-25/0.03 AP-R	2CSB203401R1250		0.220	1
		40	811107	DDA203 A-40/0.03 AP-R	2CSB203401R1400		0.220	1
		63 ①	811206	DDA203 A-63/0.03 AP-R	2CSB203401R1630		0.260	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	25	801405	DDA204 A-25/0.03 AP-R	2CSB204401R1250		0.260	1
		40	801504	DDA204 A-40/0.03 AP-R	2CSB204401R1400		0.260	1
		63 ①	801603	DDA204 A-63/0.03 AP-R	2CSB204401R1630		0.305	1

① provided with additional terminals for remote tripping

RCD-blocks

DDA 200 series A type, AE (for emergency stop)



DDA 202



DDA 203



DDA 204

DDA 200 AE, A type
Function: RCD-block for assembly on site with MCBs S 200 series. Protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts (with In=30 mA).
The RCD-block is provided with two additional terminals to be used in emergency circuits for remote opening in positive safety. A remote control circuit should be connected to those terminals where NC push buttons should be inserted in series.
ATTENTION!
It's allowed to use multiple NC buttons to control one DDA200 AE but it's not permitted to use one button in a control circuit for more RCD-blocks DDA200 AE. DDA200 AE must be supplied by the top side.

Application: commercial, industrial.
Standard: IEC/EN 61009-1 Ann. G; IEC/EN 61009-2-1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	63	801702	DDA202 A-63/0.03 AE	2CSB202701R1630		0.180	1
	300	63	801801	DDA202 A-63/0.3 AE	2CSB202701R3630		0.180	1
	500	63	801900	DDA202 A-63/0.5 AE	2CSB202701R4630		0.180	1
	1000	63	802006	DDA202 A-63/1 AE	2CSB202701R5630		0.180	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3	30	63	802105	DDA203 A-63/0.03 AE	2CSB203701R1630		0.260	1
	300	63	802204	DDA203 A-63/0.3 AE	2CSB203701R3630		0.260	1
	500	63	802303	DDA203 A-63/0.5 AE	2CSB203701R4630		0.260	1
	1000	63	802402	DDA203 A-63/1 AE	2CSB203701R5630		0.260	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	63	802501	DDA204 A-63/0.03 AE	2CSB204701R1630		0.305	1
	300	63	802600	DDA204 A-63/0.3 AE	2CSB204701R3630		0.305	1
	500	63	802709	DDA204 A-63/0.5 AE	2CSB204701R4630		0.305	1
	1000	63	802808	DDA204 A-63/1 AE	2CSB204701R5630		0.305	1

RCD-blocks

DDA 200 series A type, selective



DDA 202



DDA 203



DDA 204

DDA 200 A selective type

Function: RCD-block for assembly on site with MCBs S 200 series. Protection against the effects of sinusoidal alternating and direct pulsating earth fault currents with an intentional tripping delay, which permits to realize the selectivity with downstream instantaneous devices (for more information about selectivity see the technical guide).

Application: commercial, industrial.
Standard: IEC/EN 61009-1 Ann. G; IEC/EN 61009-2-1
Surge current resistance (wave 8/20)=5000 A

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	100	63	799306	DDA202 A S-63/0.1	2CSB202201R2630		0.180	1
	300	63	799405	DDA202 A S-63/0.3	2CSB202201R3630		0.180	1
	500	63	799504	DDA202 A S-63/0.5	2CSB202201R4630		0.180	1
	1000	63	799603	DDA202 A S-63/1	2CSB202201R5630		0.180	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3	100	63	799702	DDA203 A S-63/0.1	2CSB203201R2630		0.260	1
	300	63	799801	DDA203 A S-63/0.3	2CSB203201R3630		0.260	1
	500	63	799900	DDA203 A S-63/0.5	2CSB203201R4630		0.260	1
	1000	63	800002	DDA203 A S-63/1	2CSB203201R5630		0.260	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	100	63	800101	DDA204 A S-63/0.1	2CSB204201R2630		0.305	1
	300	63	800200	DDA204 A S-63/0.3	2CSB204201R3630		0.305	1
	500	63	800309	DDA204 A S-63/0.5	2CSB204201R4630		0.305	1
	1000	63	800408	DDA204 A S-63/1	2CSB204201R5630		0.305	1

Attention: All DDA 200 A S are provided with additional terminals for remote tripping

RCD-blocks

DDA 200 series F type



DDA 202

DDA 200 series F type
Function: RCD-block for assembly on site with MCBs S 200 series. Protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts (with IΔn=30 mA). Specifically suitable for the protection of lines supplying single phase inverters.

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1 Ann. G; IEC/EN 61009-2-1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	40	801221	DDA 202 F-40/0.03	2CSB202325R1400		0.180	1
		63	801122	DDA 202 F-63/0.03	2CSB202325R1630		0.180	1

Notes

RCD-blocks

DDA 200 series B type



DDA 202



DDA 203



DDA 204

DDA 200 type B for continuous type fault currents
RCD-blocks type B are also sensitive to continuous or mainly continuous (continuous with weak ondulation) current pulsating earth fault currents. They are also sensitive to alternate sinusoidal and direct pulsating earth fault currents as with type A circuit breakers.
They satisfy the requirements of type A devices and thus the requirements for type AC devices which can be considered an extension. For this reason the differential blocks type B are sometimes referred as “universal type”, as sensitive to “all” kind of residual current shape.
DDA 200 type B can be coupled with all the S 200 series MCBs.
They are used for protection in installations with electronic equipments according to EN 50178.

Applications: tertiary and industrial.
Standards: IEC/EN 61009-1 Ann. G; IEC/EN 61009-2-1; IEC 62423 ed.2
Surge current resistance (8/20 wave): 3000 A

Number of poles	Rated residual current IΔn mA	Rated current	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
		In A	EAN	Type code	Order code		kg	pc.
2	30	25	748021	DDA202 B APR-25/0,03	2CSB202592R1250		0.350	1
		40	515128	DDA202 B APR-40/0,03	2CSB202592R1400		0.350	1
		63	610922	DDA202 B APR-63/0,03	2CSB202592R1630		0.350	1
	300	25	733324	DDA202 B APR-25/0,3	2CSB202592R3250		0.350	1
		63	732426	DDA202 B APR-63/0,3	2CSB202592R3630		0.350	1

Number of poles	Rated residual current IΔn mA	Rated current	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
		In A	EAN	Type code	Order code		kg	pc.
3	30	63	733225	DDA203 B APR-63/0,03	2CSB203592R1630		0.375	1
	300	63	732327	DDA203 B APR-63/0,3	2CSB203592R3630		0.375	1

Number of poles	Rated residual current IΔn mA	Rated current	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
		In A	EAN	Type code	Order code		kg	pc.
4	30	25	732228	DDA204 B APR-25/0,03	2CSB204592R1250		0.395	1
		40	020325	DDA204 B APR-40/0,03	2CSB204592R1400		0.395	1
		63	733027	DDA204 B APR-63/0,03	2CSB204592R1630		0.395	1
	300	25	732129	DDA204 B APR-25/0,3	2CSB204592R3250		0.395	1
		63	732921	DDA204 B APR-63/0,3	2CSB204592R3630		0.395	1
	500	63	732020	DDA204 B APR-63/0,5	2CSB204592R4630		0.395	1

RCD-blocks

DDA 200 series B type



DDA 203

DDA 200 type B for selective continuous type fault currents
Function: protection against the effects of alternate sinusoidal, direct pulsating, continuous current and continuous current pulsating earth fault currents with an intentional trip delay that permits selectivity with instantaneous type devices placed downstream (for further information on selectivity, see Chapter 3 of Electrical installation solutions for buildings - technical details).
DDA 200 type B can be coupled with all the S 200 series MCBs.
They are used for protection in installations with electronic equipments according to EN 50178.

Applications: tertiary and industrial.
Standards: IEC/EN 61009-1 Ann. G; IEC/EN 61009-2-1; IEC 62423 ed.2
Surge current resistance (8/20 wave): 5000 A



DDA 204

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3	300	63	733126	DDA203 B S-63/0,3	2CSB203892R3630		0.375	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	300	63	732822	DDA204 B S-63/0,3	2CSB204892R3630		0.395	1

RCD-blocks

DDA 800 technical features



DDA 800

	Standards		
Electrical features	Type (wave form of the earth leakage sensed)		
	Poles		
	Rated current In		A
	Rated sensitivity IΔn		A
	Rated voltage Ue		V
	Insulation voltage Ui		V
	Operating voltage of circuit test Ut		V
	Rated frequency		Hz
	Rated breaking capacity (Icn) acc. to IEC /EN 60947-2		A
	Rated residual breaking capacity IΔm	with S 800 C	kA
		with S 800 N	kA
		with S 800 S	kA
	Rated impulse withstand voltage (1.2/50) Uimp		kV
	Dielectric test voltage at ind. freq. for 1 min.		kV
	Surge current resistance (wave 8/20)		A
Mechanical features	Toggle		
	Electrical life		
	Mechanical life		
	Protection degree	housing	
		terminals	
	Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C/RH
	Ambient temperature (with daily average ≤ +35 °C)		°C
	Storage temperature		°C
	Terminal size for cables	flexible	mm^2
		rigid	mm^2
	Tightening torque		Nm
	Mounting		
Dimensions and weight	Dimensions (H x D x W)	2P	mm
		3P	mm
		4P	mm
	Weight	2P	g
		3P	g
		4P	g
Combination with MCBs	Combinable with:	S 800 N	
		S 800 S	

* only on 3P and 4P versions.

RCD-blocks

DDA 800 technical features

DDA 800 AC	DDA 800 A		DDA 800 A AP-R	DDA 800 A S	
IEC/EN 60947-2 Ann. B					
AC	A		A	A	
2P, 3P, 4P					
63	63	100	63-100	63	100
0.03-0.3	0.03-0.3-0.5	0.3-0.5	0.03	0.3-1	0.3-0.5*-1
230/400 - 240/415 - 400/690					
690					
195-690					
50...60					
according to the breaking capacity of the associated MCB					
according to the Icu of the associated MCB					
according to the Icu of the associated MCB					
according to the Icu of the associated MCB					
6					
2.5					
NA			3000	5000	
blue operating just from OFF position					
10000					
20000					
IP4X					
IP2X					
28 cycles with 55°C/90-96% and 25°C/95-100%					
-25...+60					
-40...+70					
6...50					
6...70					
min. 3 / max. 4					
on DIN rail EN 60715 (35 mm) by means of rapid fixing device					
108.2 x 82.3 x 81					
108.2 x 82.3 x 117					
108.2 x 82.3 x 117					
300 for 63 A - 415 for 100 A					
400 for 63 A - 640 for 100 A					
460 for 63 A - 765 for 100 A					
yes					
yes					

RCD-blocks

DDA 800 AC ⊡ type for MCBs S800



DDA 802



DDA 803



DDA 804

DDA 800 AC type for MCBs S800
Function: RCD-block for assembly on site with MCBs S800 series up to 63 A. Protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct contacts (with IΔn = 30 mA).

Application: commercial, industrial.
Standard: IEC/EN 60947-2 Ann. B

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	63	919704	DDA802AC-63/0.03	2CSB802001R1630		0.300	1
	300	63	919902	DDA802AC-63/0.3	2CSB802001R3630		0.300	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3	30	63	922001	DDA803AC-63/0.03	2CSB803001R1630		0.400	1
	300	63	922209	DDA803AC-63/0.3	2CSB803001R3630		0.400	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	63	924401	DDA804AC-63/0.03	2CSB804001R1630		0.460	1
	300	63	924609	DDA804AC-63/0.3	2CSB804001R3630		0.460	1

RCD-blocks

DDA 800 A type for MCBs S800



DDA 802



DDA 803



DDA 804

DDA 800 A type for MCBs S800
Function: RCD-block for assembly on site with MCBs S800 up to 100 A. Protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts (with IΔn = 30 mA).

Application: commercial, industrial.
Standard: IEC/EN 60947-2 Ann. B

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	63	920007	DDA802 A-63/0.03	2CSB802101R1630		0.300	1
	300	63	920205	DDA802 A-63/0.3	2CSB802101R3630		0.300	1
		100	545033	DDA802 A-100/0.3	2CSB802101R3000		0.415	1
	500	63	920403	DDA802 A-63/0.5	2CSB802101R4630		0.300	1
		100	542636	DDA802 A-100/0.5	2CSB802101R4000		0.415	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3	30	63	922308	DDA803 A-63/0.03	2CSB803101R1630		0.400	1
	300	63	922506	DDA803 A-63/0.3	2CSB803101R3630		0.400	1
		100	544135	DDA803 A-100/0.3	2CSB803101R3000		0.640	1
	500	63	922704	DDA803 A-63/0.5	2CSB803101R4630		0.400	1
		100	541738	DDA803 A-100/0.5	2CSB803101R4000		0.640	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	63	924807	DDA804 A-63/0.03	2CSB804101R1630		0.460	1
	300	63	925002	DDA804 A-63/0.3	2CSB804101R3630		0.460	1
		100	547532	DDA804 A-100/0.3	2CSB804101R3000		0.765	1
	500	63	925200	DDA804 A-63/0.5	2CSB804101R4630		0.460	1
		100	544937	DDA804 A-100/0.5	2CSB804101R4000		0.765	1

RCD-blocks

DDA 800 A type AP-R (high immunity) for MCBs S800



DDA 802



DDA 803



DDA 804

DDA 800 A AP-R type for MCBs S800
Function: RCD-block for assembly on site with MCBs S800 up to 100 A. Protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing the best compromise between safety and continuity in the service thanks to the resistance to unwanted trippings; protection against indirect contacts and additional protection against direct contacts (with IΔn = 30 mA).

Application: commercial, industrial.
Standard: IEC/EN 60947-2 Ann. B

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	63	921400	DDA802 A-63/0.03 AP-R	2CSB802401R1630		0.300	1
		100	544630	DDA802 A-100/0.03 AP-R	2CSB802401R1000		0.415	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3	30	63	923800	DDA803 A-63/0.03 AP-R	2CSB803401R1630		0.400	1
		100	542230	DDA803 A-100/0.03 AP-R	2CSB803401R1000		0.640	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	63	927709	DDA804 A-63/0.03 AP-R	2CSB804401R1630		0.460	1
		100	547136	DDA804 A-100/0.03 AP-R	2CSB804401R1000		0.765	1

RCD-blocks

DDA 800 A type selective for MCBs S800



DDA 802

DDA 800 A selective type for MCBs S800
Function: RCD-block for assembly on site with MCBs S800 series up to 100 A. Protection against the effects of sinusoidal alternating and direct pulsating earth fault currents with an intentional tripping delay, which permits to realize the selectivity with downstream instantaneous devices (for more information about selectivity see the technical guide).

Application: commercial, industrial.
Standard: IEC/EN 60947-2 Ann. B



DDA 803

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	300	63	920601	DDA802 A S-63/0.3	2CSB802201R3630		0.300	1
		100	542537	DDA802 A S-100/0.3	2CSB802201R3000		0.415	1
	1000	63	920809	DDA802 A S-63/1	2CSB802201R5630		0.300	1
		100	547433	DDA802 A S-100/1	2CSB802201R5000		0.415	1



DDA 804

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3	300	63	922902	DDA803 A S-63/0.3	2CSB803201R3630		0.400	1
		100	544838	DDA803 A S-100/0.3	2CSB803201R3000		0.640	1
	500	100	542438	DDA803 A S-100/0.5	2CSB803201R4000		0.640	1
	1000	63	923206	DDA803 A S-63/1	2CSB803201R5630		0.400	1
		100	547334	DDA803 A S-100/1	2CSB803201R5000		0.640	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	300	63	926207	DDA804 A S-63/0.3	2CSB804201R3630		0.460	1
		100	544739	DDA804 A S-100/0.3	2CSB804201R3000		0.765	1
	500	100	542339	DDA804 A S-100/0.5	2CSB804201R4000		0.765	1
	1000	63	926504	DDA804 A S-63/1	2CSB804201R5630		0.460	1
		100	547235	DDA804 A S-100/1	2CSB804201R5000		0.765	1

RCBO DS201

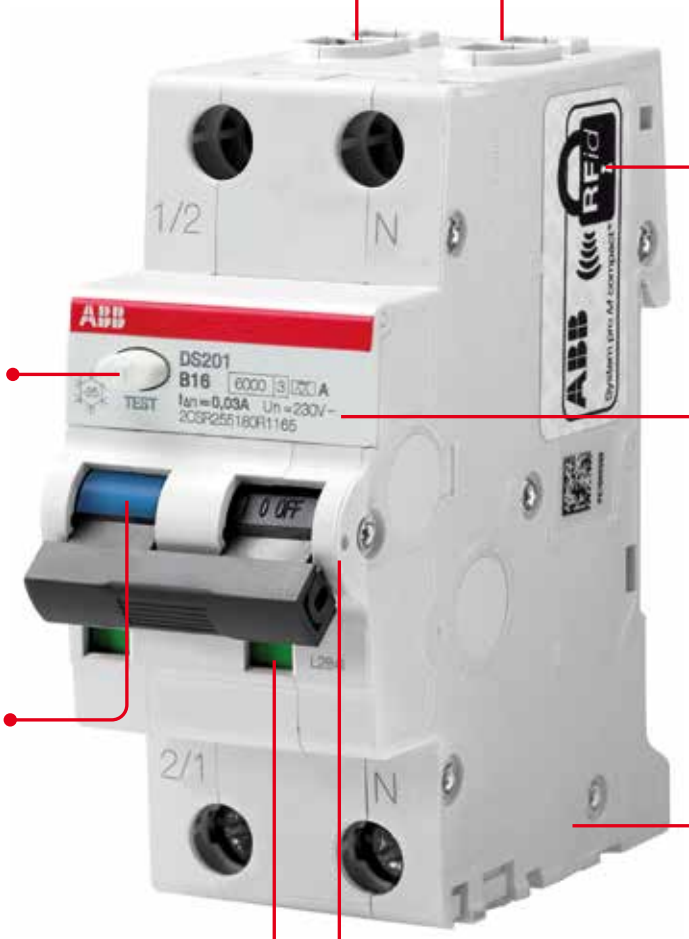
Compact solutions for a complete protection

Easy to install
Bi-directional cylindrical terminal ensure higher safety of connecting operations, making them easier.

Test pushbutton
Test pushbutton to verify the correct functioning of the device.

Earth fault indicator
Blue flag on the toggle to identify earth fault trips. I 0N – 0 0FF indication molded on the toggle.

Contact position indicator (CPI)
To indicate the status of the contacts independently from the toggle position: green (open), red (closed).

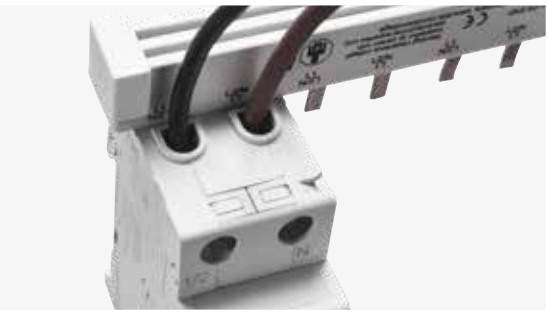


Anti counterfeiting
DS201 is equipped with a tag RFid in order to authenticate the product.

Laser printed information
Information on the device are laser printed to ensure readability over time.

Combination with accessories
Improved combination with System pro M compact® accessories, including also the auxiliary contact for bottom fitting and motor operating device.

Dedicated space for label
Dedicated space to insert labels in order to clearly identify the protected lines.



Easy installation
The terminals available on DS201 make easier the supply operation in parallel with cables and busbars as they are composed by two different seats: a front seat for 25 mm² cables and a back seat for 10 mm² busbars. Supply is possible either from top or bottom side.



Mounting clip
Stable fixing on DIN rail, easy and fast mounting and dismounting operations thanks to the standard mounting clip.



Display the operational status
Easy troubleshooting and reduced downtime for maintenance operations thanks to both the blue indicator, that signals the differential tripping to immediately identify any earth fault (it cannot be activated in case of manual operation on the toggle) and the contact position indicator (CPI) that helps to always know the status of the contacts (red: closed contacts; green: open contacts).



Reliable in extreme conditions
RCBO DS201 can be used in ambient conditions where the temperature of the surrounding atmosphere has values between -25 °C (snowflake laser printed on the front of the device) and +55°C.



Additional laser printing
Additional information are laser printed on the lateral side of the device, including also the wiring diagram and the EAN code respectively for an easier installation and for an easier stock management.



RFid
Product Made in Italy, with RFid tag on the product side containing a unique serial number assigned to ABB according to the standard ISO/IEC FCD 15693-3 in order to authenticate the product.

RCBOs

DS201 technical features





				DS201 L	DS201
	Standards			IEC/EN 61009-1; IEC/EN 61009-2-1	IEC/EN 61009-1; IEC/EN 61009-2-1
Electrical features	Type (wave form of the earth leakage sensed)			A - AC - APR	A - AC - APR
	Number of poles			1P + N	1P + N
	Rated current In		A	6 ≤ In ≤ 32	1 ≤ In ≤ 40
	Rated sensitivity IΔn		A	0.01 - 0.03 - 0.3	0.01 - 0.03 - 0.1 - 0.3
	Rated voltage Ue		V	230-240	230-240
	Insulation voltage Ui		V	500 V AC	500 V AC
	Overvoltage category			III	III
	Pollution degree			2	2
	Operating voltage of circuit test Ut		V	110 (170 for 30mA) - 264	110 (170 for 30mA) - 264
	Rated frequency		Hz	50/60	50/60
	Rated breaking capacity acc. to IEC/EN 61009-1	Icn	A	4500	6000
	Rated breaking capacity acc. to IEC/EN 60947-2 (only referring to short circuit test)	ultimate Icu	kA	6	10
		service Ics	kA	4.5	7.5
	Rated residual breaking capacity IΔm according to EN 61009-1	IΔm	A	4500	6000
	Rated residual breaking capacity IΔm according to IEC 61009-1	IΔm	A	4500	6000 up to 25 A; 4500 for 32A and 40A
	Rated impulse withstand voltage (1.2/50) Uimp		kV	4 kV	4 kV
	Dielectric test voltage at ind. freq. for 1 min.		kV	2 kV (50 / 60Hz, 1 min.)	2 kV (50 / 60Hz, 1 min.)
	Thermomagnetic release - characteristic	B: 3 In ≤ In ≤ 5 In			■
		C: 5 In ≤ In ≤ 10 In		■	■
		K: 10 In ≤ In ≤ 14 In			■
	Energy limiting class acc. to EN 61009-1			3	3
	Surge current resistance (wave 8/20)		A	NA for A, AC versions; 3000 for APR version	NA for A, AC versions; 3000 for APR version
Mechanical features	Housing			Insulation group I - II, RAL 7035	Insulation group I - II, RAL 7035
	Toggle			Insulation group II, Black RAL 9005, sealable in ON-OFF positions	Insulation group II, Black RAL 9005, sealable in ON-OFF positions
	Contact position indication			Green/Red Window	Green/Red Window
	Earth fault trip indication			Blue flag on toggle	Blue flag on toggle
	Electrical life		operations	10000	10000
	Mechanical life		operations	20000	20000
	Protection degree acc. to EN 60529	housing		IP4X	IP4X
		terminals		IP2X	IP2X
	Shock resistance acc. to IEC/EN 60068-2-27			25g - 2 shocks - 13ms	25g - 2 shocks - 13ms
	Vibration resistance acc. to IEC/EN 60068-2-6			0.1 mm or 1 g - 20 cycles at 5…150…5 Hz	0.1 mm or 1 g - 20 cycles at 5…150…5 Hz
	Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C/RH	28 cycles with 55°C/90-96% and 25°C/95-100%	28 cycles with 55°C/90-96% and 25°C/95-100%
	Reference temperature for setting of thermal element		°C	30	30 (20 for K tripping char)
	Ambient temperature (with daily average ≤ +35 °C)		°C	-25…+55	-25…+55
	Storage temperature		°C	-40…+70	-40…+70

RCBOs

DS201 technical features

		
DS201 M	**DS201 M 110V**	**DS201 T**
IEC/EN 61009-1; IEC/EN 61009-2-1	IEC 61009-1; IEC 61009-2-1	IEC/EN 61009-1; IEC/EN 61009-2-1
A - AC - APR - F	A	A - APR
1P + N	1P + N	1P + N
4 ≤ In ≤ 40	6 ≤ In ≤ 40	6 ≤ In ≤ 40
0.01 - 0.03 - 0.1 - 0.3	0.03	0.03
230-240	230-240	230-240
500 V AC	500 V AC	500 V AC
III	III	III
2	2	2
110 (170 for 30mA) - 264	110 - 264	170 - 264
50/60	50/60	50/60
10000	10000	6000
15	15	10
11.2	11.2	7.5
6000	6000	6000
6000 up to 25 A; 4500 for 32A and 40A	6000 up to 25 A; 4500 for 32A and 40A	6000 up to 25 A; 4500 for 32A and 40A
4 kV	4 kV	4 kV
2 kV (50 / 60Hz, 1 min.)	2 kV (50 / 60Hz, 1 min.)	2 kV (50 / 60Hz, 1 min.)
■	■	
■	■	■
■		
3	NA	3
NA for A, AC versions; 3000 for APR and F version	NA	NA for A; 3000 for APR version
Insulation group I - II, RAL 7035	Insulation group I - II, RAL 7035	Insulation group I - II, RAL 7035
Insulation group II, Black RAL 9005, sealable in ON-OFF positions	Insulation group II, Black RAL 9005, sealable in ON-OFF positions	Insulation group II, Black RAL 9005, sealable in ON-OFF positions
Green/Red Window	Green/Red Window	Green/Red Window
Blue flag on toggle	Blue flag on toggle	Blue flag on toggle
10000	10000	10000
20000	20000	20000
IP4X	IP4X	IP4X
IP2X	IP2X	IP2X
25g - 2 shocks - 13ms	25g - 2 shocks - 13ms	25g - 2 shocks - 13ms
0.1 mm or 1 g - 20 cycles at 5…150…5 Hz	0.1 mm or 1 g - 20 cycles at 5…150…5 Hz	0.1 mm or 1 g - 20 cycles at 5…150…5 Hz
28 cycles with 55°C/90-96% and 25°C/95-100%	28 cycles with 55°C/90-96% and 25°C/95-100%	28 cycles with 55°C/90-96% and 25°C/95-100%
30 (20 for K tripping char)	30	30
-25…+55	-25…+55	-25…+55
-40…+70	-40…+70	-40…+70

RCBOs

DS201 technical features





					DS201 L	DS201
Installation	Terminal type		top / bottom		failsafe bi-directional cylinder-lift terminal (shock protected)	failsafe bi-directional cylinder-lift terminal (shock protected)
	Terminal size for cables		top / bottom	mm^2	25/25	25/25
	Terminal size for busbars		top / bottom	mm^2	10/10	10/10
	Tightening torque		top / bottom	Nm	2.8	2.8
	Stripping length of the cable			mm	12	12
	Mounting				on DIN rail EN 60715 (35mm) by means of mounting clip	on DIN rail EN 60715 (35mm) by means of mounting clip
	Mounting position				Any	Any
	Supply from				Top/Bottom terminals	Top/Bottom terminals
Dimensions and weight	Dimensions (H x D x W)			mm	85 x 69 x 35	85 x 69 x 35
	Weight			g	200	200
Combination with auxiliary elements	Combinable with accessories and auxiliaries	Auxiliary contact			yes	yes
		Signal contact / auxiliary contact			yes	yes
		Shunt trip			yes	yes
		Auxiliary contact for bottom fitting			yes	yes
		Undervoltage release			yes	yes
		Overvoltage release			yes	yes
		Motor operating device			yes	yes

RCBOs

DS201 technical features

		
DS201 M	**DS201 M 110V**	**DS201 T**
failsafe bi-directional cylinder-lift terminal (shock protected)	failsafe bi-directional cylinder-lift terminal (shock protected)	failsafe bi-directional cylinder-lift terminal (shock protected)
25/25	25/25	25/25
10/10	10/10	10.X
2.8	2.8	02.VIII
12	12	12
on DIN rail EN 60715 (35mm) by means of mounting clip	on DIN rail EN 60715 (35mm) by means of mounting clip	on DIN rail EN 60715 (35mm) by means of mounting clip
Any	Any	Any
Top/Bottom terminals	Top/Bottom terminals	Top/Bottom terminals
85 x 69 x 35	85 x 69 x 35	85 x 69 x 35
200	200	200
yes	yes	yes
yes	yes	yes
yes	yes	yes
yes	yes	yes
yes	yes	yes
yes	yes	yes
yes	yes	yes

RCBOs

DS201 L series 4500 A type, C characteristic



DS201 L

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA).

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 4500 A

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1+N	10	6	637318	DS201 L C6 A10	2CSR245180R0064		0.2	1
		10	637011	DS201 L C10 A10	2CSR245180R0104		0.2	1
		16	637110	DS201 L C16 A10	2CSR245180R0164		0.2	1
	30	6	636717	DS201 L C6 A30	2CSR245180R1064		0.2	1
		10	636816	DS201 L C10 A30	2CSR245180R1104		0.2	1
		16	636915	DS201 L C16 A30	2CSR245180R1164		0.2	1
		20	638216	DS201 L C20 A30	2CSR245180R1204		0.2	1
		25	638315	DS201 L C25 A30	2CSR245180R1254		0.2	1
		32	638018	DS201 L C32 A30	2CSR245180R1324		0.2	1
	300	6	638117	DS201 L C6 A300	2CSR245180R3064		0.2	1
		10	638919	DS201 L C10 A300	2CSR245180R3104		0.2	1
		16	639114	DS201 L C16 A300	2CSR245180R3164		0.2	1
		20	638810	DS201 L C20 A300	2CSR245180R3204		0.2	1
		25	638612	DS201 L C25 A300	2CSR245180R3254		0.2	1
		32	639312	DS201 L C32 A300	2CSR245180R3324		0.2	1

RCBOs

DS201 L 4500 AC type, C characteristic



DS201 L

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA).

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 4500 A

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1+N	30	6	043515	DS201 L C6 AC30	2CSR245080R1064		0.2	1
		10	043416	DS201 L C10 AC30	2CSR245080R1104		0.2	1
		16	030218	DS201 L C16 AC30	2CSR245080R1164		0.2	1
		20	030010	DS201 L C20 AC30	2CSR245080R1204		0.2	1
		25	030119	DS201 L C25 AC30	2CSR245080R1254		0.2	1
		32	637615	DS201 L C32 AC30	2CSR245080R1324		0.2	1
	300	6	637714	DS201 L C6 AC300	2CSR245080R3064		0.2	1
		10	637417	DS201 L C10 AC300	2CSR245080R3104		0.2	1
		16	637516	DS201 L C16 AC300	2CSR245080R3164		0.2	1
		20	637813	DS201 L C20 AC300	2CSR245080R3204		0.2	1
		25	637912	DS201 L C25 AC300	2CSR245080R3254		0.2	1
		32	637219	DS201 L C32 AC300	2CSR245080R3324		0.2	1

DS201 L 4500 APR type, C characteristic



DS201 L

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing an optimal trade-off between safety and continuity of service, thanks to the resistance to unwanted tripping; protection against indirect contact and additional protection against direct contact (IΔn=30mA); protection and isolation of resistive and inductive loads.

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 4500 A

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1+N	30	6	639411	DS201 L C6 APR30	2CSR245480R1064		0.2	1
		10	638711	DS201 L C10 APR30	2CSR245480R1104		0.2	1
		16	639619	DS201 L C16 APR30	2CSR245480R1164		0.2	1
		20	639213	DS201 L C20 APR30	2CSR245480R1204		0.2	1
		25	639510	DS201 L C25 APR30	2CSR245480R1254		0.2	1
		32	639015	DS201 L C32 APR30	2CSR245480R1324		0.2	1

RCBOs

DS201 6000 A A type, B characteristic



DS201

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA).

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 6000 A

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1+N	10	10	065913	DS201 B10 A10	2CSR255180R0105		0.2	1
		13	065814	DS201 B13 A10	2CSR255180R0135		0.2	1
		16	066316	DS201 B16 A10	2CSR255180R0165		0.2	1
	30	6	066217	DS201 B6 A30	2CSR255180R1065		0.2	1
		10	066118	DS201 B10 A30	2CSR255180R1105		0.2	1
		13	058113	DS201 B13 A30	2CSR255180R1135		0.2	1
		16	058519	DS201 B16 A30	2CSR255180R1165		0.2	1
		20	969815	DS201 B20 A30	2CSR255180R1205		0.2	1
		25	969716	DS201 B25 A30	2CSR255180R1255		0.2	1
		32	970019	DS201 B32 A30	2CSR255180R1325		0.2	1
		40	969914	DS201 B40 A30	2CSR255180R1405		0.2	1
	100	6	779414	DS201 B6 A100	2CSR255180R2065		0.2	1
		10	790211	DS201 B10 A100	2CSR255180R2105		0.2	1
		13	779810	DS201 B13 A100	2CSR255180R2135		0.2	1
		16	779711	DS201 B16 A100	2CSR255180R2165		0.2	1
		20	779612	DS201 B20 A100	2CSR255180R2205		0.2	1
		25	779513	DS201 B25 A100	2CSR255180R2255		0.2	1
		32	372011	DS201 B32 A100	2CSR255180R2325		0.2	1
		40	023913	DS201 B40 A100	2CSR255180R2405		0.2	1
	300	6	070313	DS201 B6 A300	2CSR255180R3065		0.2	1
		10	643616	DS201 B10 A300	2CSR255180R3105		0.2	1
		13	643418	DS201 B13 A300	2CSR255180R3135		0.2	1
		16	643517	DS201 B16 A300	2CSR255180R3165		0.2	1
		20	643814	DS201 B20 A300	2CSR255180R3205		0.2	1
		25	643715	DS201 B25 A300	2CSR255180R3255		0.2	1
		32	643319	DS201 B32 A300	2CSR255180R3325		0.2	1
		40	965312	DS201 B40 A300	2CSR255180R3405		0.2	1

RCBOs

DS201 6000 A type, C characteristic



DS201

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA).

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 6000 A

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1+N	10	10	738817	DS201 C10 A10	2CSR255180R0104		0.2	1
		13	738015	DS201 C13 A10	2CSR255180R0134		0.2	1
		16	739418	DS201 C16 A10	2CSR255180R0164		0.2	1
	30	2	738718	DS201 C2 A30	2CSR255180R1024		0.2	1
		4	737919	DS201 C4 A30	2CSR255180R1044		0.2	1
		6	737117	DS201 C6 A30	2CSR255180R1064		0.2	1
		8	738619	DS201 C8 A30	2CSR255180R1084		0.2	1
		10	737810	DS201 C10 A30	2CSR255180R1104		0.2	1
		13	737018	DS201 C13 A30	2CSR255180R1134		0.2	1
		16	739319	DS201 C16 A30	2CSR255180R1164		0.2	1
		20	738510	DS201 C20 A30	2CSR255180R1204		0.2	1
		25	737711	DS201 C25 A30	2CSR255180R1254		0.2	1
		32	737612	DS201 C32 A30	2CSR255180R1324		0.2	1
		40	738411	DS201 C40 A30	2CSR255180R1404		0.2	1
	100	6	739012	DS201 C6 A100	2CSR255180R2064		0.2	1
		10	738213	DS201 C10 A100	2CSR255180R2104		0.2	1
		13	737315	DS201 C13 A100	2CSR255180R2134		0.2	1
		16	738916	DS201 C16 A100	2CSR255180R2164		0.2	1
		20	738114	DS201 C20 A100	2CSR255180R2204		0.2	1
		25	737216	DS201 C25 A100	2CSR255180R2254		0.2	1
		32	747215	DS201 C32 A100	2CSR255180R2324		0.2	1
		40	747116	DS201 C40 A100	2CSR255180R2404		0.2	1
	300	2	739210	DS201 C2 A300	2CSR255180R3024		0.2	1
		4	062714	DS201 C4 A300	2CSR255180R3044		0.2	1
		6	007814	DS201 C6 A300	2CSR255180R3064		0.2	1
		8	007715	DS201 C8 A300	2CSR255180R3084		0.2	1
		10	062615	DS201 C10 A300	2CSR255180R3104		0.2	1
		13	886716	DS201 C13 A300	2CSR255180R3134		0.2	1
		16	886815	DS201 C16 A300	2CSR255180R3164		0.2	1
		20	886617	DS201 C20 A300	2CSR255180R3204		0.2	1
		25	886310	DS201 C25 A300	2CSR255180R3254		0.2	1
		32	886211	DS201 C32 A300	2CSR255180R3324		0.2	1
		40	326311	DS201 C40 A300	2CSR255180R3404		0.2	1

RCBOs

DS201 6000 A type, K characteristic



DS201

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA).

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 6000 A

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1+N	10	10	647515	DS201 K10 A10	2CSR255180R0107		0.2	1
		13	061717	DS201 K13 A10	2CSR255180R0137		0.2	1
		16	295419	DS201 K16 A10	2CSR255180R0167		0.2	1
	30	1	295310	DS201 K1 A30	2CSR255180R1017		0.2	1
		2	498513	DS201 K2 A30	2CSR255180R1027		0.2	1
		4	305415	DS201 K4 A30	2CSR255180R1047		0.2	1
		6	647614	DS201 K6 A30	2CSR255180R1067		0.2	1
		8	643913	DS201 K8 A30	2CSR255180R1087		0.2	1
		10	587712	DS201 K10 A30	2CSR255180R1107		0.2	1
		13	575917	DS201 K13 A30	2CSR255180R1137		0.2	1
		16	564119	DS201 K16 A30	2CSR255180R1167		0.2	1
		20	586814	DS201 K20 A30	2CSR255180R1207		0.2	1
		25	575016	DS201 K25 A30	2CSR255180R1257		0.2	1
		32	563211	DS201 K32 A30	2CSR255180R1327		0.2	1
		40	775911	DS201 K40 A30	2CSR255180R1407		0.2	1
	300	1	773719	DS201 K1 A300	2CSR255180R3017		0.2	1
		2	771517	DS201 K2 A300	2CSR255180R3027		0.2	1
		4	587613	DS201 K4 A300	2CSR255180R3047		0.2	1
		6	575818	DS201 K6 A300	2CSR255180R3067		0.2	1
		8	564010	DS201 K8 A300	2CSR255180R3087		0.2	1
		10	586715	DS201 K10 A300	2CSR255180R3107		0.2	1
		13	574910	DS201 K13 A300	2CSR255180R3137		0.2	1
		16	563112	DS201 K16 A300	2CSR255180R3167		0.2	1
		20	775812	DS201 K20 A300	2CSR255180R3207		0.2	1
		25	773610	DS201 K25 A300	2CSR255180R3257		0.2	1
		32	771418	DS201 K32 A300	2CSR255180R3327		0.2	1
		40	587514	DS201 K40 A300	2CSR255180R3407		0.2	1

RCBOs

DS201 6000 AC type, B characteristic



DS201

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA).

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 6000 A

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1+N	30	6	274315	DS201 B6 AC30	2CSR255080R1065		0.2	1
		10	333913	DS201 B10 AC30	2CSR255080R1105		0.2	1
		13	508014	DS201 B13 AC30	2CSR255080R1135		0.2	1
		16	295815	DS201 B16 AC30	2CSR255080R1165		0.2	1
		20	295617	DS201 B20 AC30	2CSR255080R1205		0.2	1
		25	965213	DS201 B25 AC30	2CSR255080R1255		0.2	1
		32	963011	DS201 B32 AC30	2CSR255080R1325		0.2	1
		40	964919	DS201 B40 AC30	2CSR255080R1405		0.2	1
	100	6	965114	DS201 B6 AC100	2CSR255080R2065		0.2	1
		10	295716	DS201 B10 AC100	2CSR255080R2105		0.2	1
		13	649410	DS201 B13 AC100	2CSR255080R2135		0.2	1
		16	649311	DS201 B16 AC100	2CSR255080R2165		0.2	1
		20	649212	DS201 B20 AC100	2CSR255080R2205		0.2	1
		25	649113	DS201 B25 AC100	2CSR255080R2255		0.2	1
		32	649519	DS201 B32 AC100	2CSR255080R2325		0.2	1
		40	027911	DS201 B40 AC100	2CSR255080R2405		0.2	1
	300	6	027812	DS201 B6 AC300	2CSR255080R3065		0.2	1
		10	007210	DS201 B10 AC300	2CSR255080R3105		0.2	1
		13	007111	DS201 B13 AC300	2CSR255080R3135		0.2	1
		16	644118	DS201 B16 AC300	2CSR255080R3165		0.2	1
		20	644019	DS201 B20 AC300	2CSR255080R3205		0.2	1
		25	644316	DS201 B25 AC300	2CSR255080R3255		0.2	1
		32	644217	DS201 B32 AC300	2CSR255080R3325		0.2	1
		40	066019	DS201 B40 AC300	2CSR255080R3405		0.2	1

RCBOs

DS201 6000 AC type, C characteristic



DS201

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA).

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 6000 A

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1+N	30	6	896319	DS201 C6 AC30	2CSR255080R1064		0.2	1
		10	049418	DS201 C10 AC30	2CSR255080R1104		0.2	1
		13	049319	DS201 C13 AC30	2CSR255080R1134		0.2	1
		16	049210	DS201 C16 AC30	2CSR255080R1164		0.2	1
		20	049111	DS201 C20 AC30	2CSR255080R1204		0.2	1
		25	049012	DS201 C25 AC30	2CSR255080R1254		0.2	1
		32	048916	DS201 C32 AC30	2CSR255080R1324		0.2	1
		40	048817	DS201 C40 AC30	2CSR255080R1404		0.2	1
	100	6	048718	DS201 C6 AC100	2CSR255080R2064		0.2	1
		10	048619	DS201 C10 AC100	2CSR255080R2104		0.2	1
		13	048510	DS201 C13 AC100	2CSR255080R2134		0.2	1
		16	048411	DS201 C16 AC100	2CSR255080R2164		0.2	1
		20	048312	DS201 C20 AC100	2CSR255080R2204		0.2	1
		25	048213	DS201 C25 AC100	2CSR255080R2254		0.2	1
		32	048114	DS201 C32 AC100	2CSR255080R2324		0.2	1
		40	048015	DS201 C40 AC100	2CSR255080R2404		0.2	1
	300	6	047919	DS201 C6 AC300	2CSR255080R3064		0.2	1
		10	047810	DS201 C10 AC300	2CSR255080R3104		0.2	1
		13	047711	DS201 C13 AC300	2CSR255080R3134		0.2	1
		16	047612	DS201 C16 AC300	2CSR255080R3164		0.2	1
		20	049814	DS201 C20 AC300	2CSR255080R3204		0.2	1
		25	049715	DS201 C25 AC300	2CSR255080R3254		0.2	1
		32	049616	DS201 C32 AC300	2CSR255080R3324		0.2	1
		40	049517	DS201 C40 AC300	2CSR255080R3404		0.2	1

RCBOs

DS201 6000 APR type, C characteristic



DS201

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing an optimal trade-off between safety and continuity of service thanks to the resistance to unwanted tripping; protection against indirect contact and additional protection against direct contact (IΔn=30 mA); protection and isolation of resistive and inductive loads.

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 6000 A

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1+N	30	6	326212	DS201 C6 APR30	2CSR255480R1064		0.2	1
		10	399612	DS201 C10 APR30	2CSR255480R1104		0.2	1
		13	399711	DS201 C13 APR30	2CSR255480R1134		0.2	1
		16	658917	DS201 C16 APR30	2CSR255480R1164		0.2	1
		20	658412	DS201 C20 APR30	2CSR255480R1204		0.2	1
		25	659914	DS201 C25 APR30	2CSR255480R1254		0.2	1
		32	659419	DS201 C32 APR30	2CSR255480R1324		0.2	1
		40	658610	DS201 C40 APR30	2CSR255480R1404		0.2	1
	100	6	658115	DS201 C6 APR100	2CSR255480R2064		0.2	1
		10	659617	DS201 C10 APR100	2CSR255480R2104		0.2	1
		13	910916	DS201 C13 APR100	2CSR255480R2134		0.2	1
		16	659112	DS201 C16 APR100	2CSR255480R2164		0.2	1
		20	658719	DS201 C20 APR100	2CSR255480R2204		0.2	1
		25	658214	DS201 C25 APR100	2CSR255480R2254		0.2	1
		32	659716	DS201 C32 APR100	2CSR255480R2324		0.2	1
		40	659211	DS201 C40 APR100	2CSR255480R2404		0.2	1
	300	6	658818	DS201 C6 APR300	2CSR255480R3064		0.2	1
		10	658313	DS201 C10 APR300	2CSR255480R3104		0.2	1
		13	659815	DS201 C13 APR300	2CSR255480R3134		0.2	1
		16	659310	DS201 C16 APR300	2CSR255480R3164		0.2	1
		20	658511	DS201 C20 APR300	2CSR255480R3204		0.2	1
		25	658016	DS201 C25 APR300	2CSR255480R3254		0.2	1
		32	659518	DS201 C32 APR300	2CSR255480R3324		0.2	1
		40	910817	DS201 C40 APR300	2CSR255480R3404		0.2	1

RCBOs

DS201 M 10000 A type, B characteristic



DS201 M

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA).

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 10000 A

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1+N	10	10	574613	DS201 M B10 A10	2CSR275180R0105		0.2	1
		16	562818	DS201 M B16 A10	2CSR275180R0165		0.2	1
	30	6	775515	DS201 M B6 A30	2CSR275180R1065		0.2	1
		10	773313	DS201 M B10 A30	2CSR275180R1105		0.2	1
		13	771111	DS201 M B13 A30	2CSR275180R1135		0.2	1
		16	587217	DS201 M B16 A30	2CSR275180R1165		0.2	1
		20	575412	DS201 M B20 A30	2CSR275180R1205		0.2	1
		25	563617	DS201 M B25 A30	2CSR275180R1255		0.2	1
		32	586319	DS201 M B32 A30	2CSR275180R1325		0.2	1
		40	574514	DS201 M B40 A30	2CSR275180R1405		0.2	1
	100	6	562719	DS201 M B6 A100	2CSR275180R2065		0.2	1
		10	775416	DS201 M B10 A100	2CSR275180R2105		0.2	1
		13	773214	DS201 M B13 A100	2CSR275180R2135		0.2	1
		16	771012	DS201 M B16 A100	2CSR275180R2165		0.2	1
		20	587118	DS201 M B20 A100	2CSR275180R2205		0.2	1
		25	575313	DS201 M B25 A100	2CSR275180R2255		0.2	1
		32	563518	DS201 M B32 A100	2CSR275180R2325		0.2	1
		40	586210	DS201 M B40 A100	2CSR275180R2405		0.2	1
	300	6	574415	DS201 M B6 A300	2CSR275180R3065		0.2	1
		10	562610	DS201 M B10 A300	2CSR275180R3105		0.2	1
		13	775317	DS201 M B13 A300	2CSR275180R3135		0.2	1
		16	773115	DS201 M B16 A300	2CSR275180R3165		0.2	1
		20	770916	DS201 M B20 A300	2CSR275180R3205		0.2	1
		25	587019	DS201 M B25 A300	2CSR275180R3255		0.2	1
		32	575214	DS201 M B32 A300	2CSR275180R3325		0.2	1
		40	563419	DS201 M B40 A300	2CSR275180R3405		0.2	1

RCBOs

DS201 M 10000 A type, C characteristic



DS201 M

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA).

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 10000 A

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1+N	10	10	594116	DS201 M C10 A10	2CSR275180R0104		0.2	1
		16	582311	DS201 M C16 A10	2CSR275180R0164		0.2	1
	30	4	570516	DS201 M C4 A30	2CSR275180R1044		0.2	1
		6	595410	DS201 M C6 A30	2CSR275180R1064		0.2	1
		10	583615	DS201 M C10 A30	2CSR275180R1104		0.2	1
		13	571810	DS201 M C13 A30	2CSR275180R1134		0.2	1
		16	592815	DS201 M C16 A30	2CSR275180R1164		0.2	1
		20	581017	DS201 M C20 A30	2CSR275180R1204		0.2	1
		25	569213	DS201 M C25 A30	2CSR275180R1254		0.2	1
		32	594017	DS201 M C32 A30	2CSR275180R1324		0.2	1
		40	582212	DS201 M C40 A30	2CSR275180R1404		0.2	1
	100	6	570417	DS201 M C6 A100	2CSR275180R2064		0.2	1
		10	595311	DS201 M C10 A100	2CSR275180R2104		0.2	1
		16	583516	DS201 M C16 A100	2CSR275180R2164		0.2	1
		20	571711	DS201 M C20 A100	2CSR275180R2204		0.2	1
		25	593911	DS201 M C25 A100	2CSR275180R2254		0.2	1
		32	582113	DS201 M C32 A100	2CSR275180R2324		0.2	1
		40	570318	DS201 M C40 A100	2CSR275180R2404		0.2	1
	300	6	595212	DS201 M C6 A300	2CSR275180R3064		0.2	1
		10	583417	DS201 M C10 A300	2CSR275180R3104		0.2	1
		13	571612	DS201 M C13 A300	2CSR275180R3134		0.2	1
		16	592716	DS201 M C16 A300	2CSR275180R3164		0.2	1
		20	580911	DS201 M C20 A300	2CSR275180R3204		0.2	1
		25	569114	DS201 M C25 A300	2CSR275180R3254		0.2	1
		32	593812	DS201 M C32 A300	2CSR275180R3324		0.2	1
		40	582014	DS201 M C40 A300	2CSR275180R3404		0.2	1

RCBOs

DS201 M 10000 A type, K characteristic



DS201 M

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents.

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 10000 A

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1+N	100	6	568919	DS201 M K6 A100	2CSR275180R2067		0.2	1
		10	593515	DS201 M K10 A100	2CSR275180R2107		0.2	1
		13	581710	DS201 M K13 A100	2CSR275180R2137		0.2	1
		16	569916	DS201 M K16 A100	2CSR275180R2167		0.2	1
		20	594819	DS201 M K20 A100	2CSR275180R2207		0.2	1
		25	583011	DS201 M K25 A100	2CSR275180R2257		0.2	1
		32	571216	DS201 M K32 A100	2CSR275180R2327		0.2	1
		40	593416	DS201 M K40 A100	2CSR275180R2407		0.2	1

RCBOs

DS201 M 10000 AC type, B characteristic



DS201 M

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA).

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 10000 A

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1+N	30	6	575719	DS201 M B6 AC30	2CSR275080R1065		0.2	1
		10	563914	DS201 M B10 AC30	2CSR275080R1105		0.2	1
		13	586616	DS201 M B13 AC30	2CSR275080R1135		0.2	1
		16	574811	DS201 M B16 AC30	2CSR275080R1165		0.2	1
		20	563013	DS201 M B20 AC30	2CSR275080R1205		0.2	1
		25	775713	DS201 M B25 AC30	2CSR275080R1255		0.2	1
		32	773511	DS201 M B32 AC30	2CSR275080R1325		0.2	1
		40	771319	DS201 M B40 AC30	2CSR275080R1405		0.2	1
	100	6	775010	DS201 M B6 AC100	2CSR275080R2065		0.2	1
		10	772811	DS201 M B10 AC100	2CSR275080R2105		0.2	1
		13	770619	DS201 M B13 AC100	2CSR275080R2135		0.2	1
		16	587415	DS201 M B16 AC100	2CSR275080R2165		0.2	1
		20	575610	DS201 M B20 AC100	2CSR275080R2205		0.2	1
		25	563815	DS201 M B25 AC100	2CSR275080R2255		0.2	1
		32	586517	DS201 M B32 AC100	2CSR275080R2325		0.2	1
		40	574712	DS201 M B40 AC100	2CSR275080R2405		0.2	1
	300	6	562917	DS201 M B6 AC300	2CSR275080R3065		0.2	1
		10	775614	DS201 M B10 AC300	2CSR275080R3105		0.2	1
		13	773412	DS201 M B13 AC300	2CSR275080R3135		0.2	1
		16	771210	DS201 M B16 AC300	2CSR275080R3165		0.2	1
		20	587316	DS201 M B20 AC300	2CSR275080R3205		0.2	1
		25	575511	DS201 M B25 AC300	2CSR275080R3255		0.2	1
		32	563716	DS201 M B32 AC300	2CSR275080R3325		0.2	1
		40	586418	DS201 M B40 AC300	2CSR275080R3405		0.2	1

RCBOs

DS201 M 10000 AC type, C characteristic



DS201 M

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA).

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 10000 A

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1+N	30	6	586111	DS201 M C6 AC30	2CSR275080R1064		0.2	1
		10	574316	DS201 M C10 AC30	2CSR275080R1104		0.2	1
		13	562511	DS201 M C13 AC30	2CSR275080R1134		0.2	1
		16	775218	DS201 M C16 AC30	2CSR275080R1164		0.2	1
		20	773016	DS201 M C20 AC30	2CSR275080R1204		0.2	1
		25	770817	DS201 M C25 AC30	2CSR275080R1254		0.2	1
		32	910015	DS201 M C32 AC30	2CSR275080R1324		0.2	1
		40	909811	DS201 M C40 AC30	2CSR275080R1404		0.2	1
	100	6	909613	DS201 M C6 AC100	2CSR275080R2064		0.2	1
		10	587811	DS201 M C10 AC100	2CSR275080R2104		0.2	1
		13	576013	DS201 M C13 AC100	2CSR275080R2134		0.2	1
		16	564218	DS201 M C16 AC100	2CSR275080R2164		0.2	1
		20	586913	DS201 M C20 AC100	2CSR275080R2204		0.2	1
		25	575115	DS201 M C25 AC100	2CSR275080R2254		0.2	1
		32	563310	DS201 M C32 AC100	2CSR275080R2324		0.2	1
		40	586012	DS201 M C40 AC100	2CSR275080R2404		0.2	1
	300	6	574217	DS201 M C6 AC300	2CSR275080R3064		0.2	1
		10	562412	DS201 M C10 AC300	2CSR275080R3104		0.2	1
		13	775119	DS201 M C13 AC300	2CSR275080R3134		0.2	1
		16	772910	DS201 M C16 AC300	2CSR275080R3164		0.2	1
		20	770718	DS201 M C20 AC300	2CSR275080R3204		0.2	1
		25	774914	DS201 M C25 AC300	2CSR275080R3254		0.2	1
		32	772712	DS201 M C32 AC300	2CSR275080R3324		0.2	1
		40	770510	DS201 M C40 AC300	2CSR275080R3404		0.2	1

RCBOs

DS201 M 10000 APR type, C characteristic



DS201 M

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing an optimal compromise between safety and continuity of service, thanks to the resistance to unwanted tripping; protection against indirect contact and additional protection against direct contact (IΔn=30 mA); protection and isolation of resistive and inductive loads.

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 10000 A

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1+N	30	6	570219	DS201 M C6 APR30	2CSR275480R1064		0.2	1
		10	591917	DS201 M C10 APR30	2CSR275480R1104		0.2	1
		13	580119	DS201 M C13 APR30	2CSR275480R1134		0.2	1
		16	568315	DS201 M C16 APR30	2CSR275480R1164		0.2	1
		20	595113	DS201 M C20 APR30	2CSR275480R1204		0.2	1
		25	583318	DS201 M C25 APR30	2CSR275480R1254		0.2	1
		32	571513	DS201 M C32 APR30	2CSR275480R1324		0.2	1
		40	592617	DS201 M C40 APR30	2CSR275480R1404		0.2	1
	100	6	580812	DS201 M C6 APR100	2CSR275480R2064		0.2	1
		10	569015	DS201 M C10 APR100	2CSR275480R2104		0.2	1
		13	593713	DS201 M C13 APR100	2CSR275480R2134		0.2	1
		16	581918	DS201 M C16 APR100	2CSR275480R2164		0.2	1
		20	570110	DS201 M C20 APR100	2CSR275480R2204		0.2	1
		25	595014	DS201 M C25 APR100	2CSR275480R2254		0.2	1
		32	583219	DS201 M C32 APR100	2CSR275480R2324		0.2	1
		40	571414	DS201 M C40 APR100	2CSR275480R2404		0.2	1
	300	6	593614	DS201 M C6 APR300	2CSR275480R3064		0.2	1
		10	581819	DS201 M C10 APR300	2CSR275480R3104		0.2	1
		13	570011	DS201 M C13 APR300	2CSR275480R3134		0.2	1
		16	594918	DS201 M C16 APR300	2CSR275480R3164		0.2	1
		20	583110	DS201 M C20 APR300	2CSR275480R3204		0.2	1
		25	571315	DS201 M C25 APR300	2CSR275480R3254		0.2	1
		32	592518	DS201 M C32 APR300	2CSR275480R3324		0.2	1
		40	580713	DS201 M C40 APR300	2CSR275480R3404		0.2	1

RCBOs

DS201 M 10000 F type, B characteristic



DS201 M

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA). Specifically suitable for the protection of lines supplying single phase inverters.

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1; IEC/EN 62423
Icn = 10000 A

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1+N	10	10	569411	DS201 M B10 F10	2CSR275580R0105		0.2	1
		13	594314	DS201 M B13 F10	2CSR275580R0135		0.2	1
		16	582519	DS201 M B16 F10	2CSR275580R0165		0.2	1
	30	6	594413	DS201 M B6 F30	2CSR275580R1065		0.2	1
		10	582618	DS201 M B10 F30	2CSR275580R1105		0.2	1
		13	570813	DS201 M B13 F30	2CSR275580R1135		0.2	1
		16	595717	DS201 M B16 F30	2CSR275580R1165		0.2	1
		20	583912	DS201 M B20 F30	2CSR275580R1205		0.2	1
		25	572114	DS201 M B25 F30	2CSR275580R1255		0.2	1
		32	592112	DS201 M B32 F30	2CSR275580R1325		0.2	1
		40	580317	DS201 M B40 F30	2CSR275580R1405		0.2	1

DS201 M 10000 F type, C characteristic



DS201 M

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA). Specifically suitable for the protection of lines supplying single phase inverters.

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1; IEC/EN 62423
Icn = 10000 A

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1+N	10	10	568513	DS201 M C10 F10	2CSR275580R0104		0.2	1
		13	593010	DS201 M C13 F10	2CSR275580R0134		0.2	1
		16	581215	DS201 M C16 F10	2CSR275580R0164		0.2	1
	30	6	580416	DS201 M C6 F30	2CSR275580R1064		0.2	1
		10	568612	DS201 M C10 F30	2CSR275580R1104		0.2	1
		13	595816	DS201 M C13 F30	2CSR275580R1134		0.2	1
		16	584018	DS201 M C16 F30	2CSR275580R1164		0.2	1
		20	572213	DS201 M C20 F30	2CSR275580R1204		0.2	1
		25	593119	DS201 M C25 F30	2CSR275580R1254		0.2	1
		32	581314	DS201 M C32 F30	2CSR275580R1324		0.2	1
		40	569510	DS201 M C40 F30	2CSR275580R1404		0.2	1

RCBOs

DS201 M 110V 10000 A type, B characteristic



DS201 M 110V

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn = 30 mA).
This particular series of devices has the minimum operating voltage of test button of 110 V and it is suitable for 230 V applications.

Application: residential, commercial, industrial.
Standard: IEC 61009-1; IEC 61009-2-1
Icn = 10000 A

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1+N	30	6	582410	DS201 M B6 A30 110V	2CSR275189R1065		0.2	1
		10	570615	DS201 M B10 A30 110V	2CSR275189R1105		0.2	1
		13	592013	DS201 M B13 A30 110V	2CSR275189R1135		0.2	1
		16	580218	DS201 M B16 A30 110V	2CSR275189R1165		0.2	1
		20	568414	DS201 M B20 A30 110V	2CSR275189R1205		0.2	1
		25	595519	DS201 M B25 A30 110V	2CSR275189R1255		0.2	1
		32	583714	DS201 M B32 A30 110V	2CSR275189R1325		0.2	1
		40	571919	DS201 M B40 A30 110V	2CSR275189R1405		0.2	1

DS201 M 110V 10000 A type, C characteristic



DS201 M 110V

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn = 30 mA).
This particular series of devices has the minimum operating voltage of test button of 110 V and it is suitable for 230 V applications.

Application: residential, commercial, industrial.
Standard: IEC 61009-1; IEC 61009-2-1
Icn = 10000 A

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1+N	30	6	570714	DS201 M C6 A30 110V	2CSR275189R1064		0.2	1
		10	595618	DS201 M C10 A30 110V	2CSR275189R1104		0.2	1
		13	583813	DS201 M C13 A30 110V	2CSR275189R1134		0.2	1
		15	427957	DS201 M C15 A30 110V	2CSR275189R1154		0.2	1
		16	572015	DS201 M C16 A30 110V	2CSR275189R1164		0.2	1
		20	592914	DS201 M C20 A30 110V	2CSR275189R1204		0.2	1
		25	581116	DS201 M C25 A30 110V	2CSR275189R1254		0.2	1
		32	569312	DS201 M C32 A30 110V	2CSR275189R1324		0.2	1
		40	594215	DS201 M C40 A30 110V	2CSR275189R1404		0.2	1

RCBOs

DS201 T 6000 A type, C characteristic



DS201 T

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA).

Application: railway, rolling stock, traction.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 6000 A

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1P+N	30	6	565215	DS201T C6 A30	2CSR255188R1064		0.2	1
		10	590019	DS201T C10 A30	2CSR255188R1104		0.2	1
		13	578215	DS201T C13 A30	2CSR255188R1134		0.2	1
		16	566410	DS201T C16 A30	2CSR255188R1164		0.2	1
		20	591313	DS201T C20 A30	2CSR255188R1204		0.2	1
		25	579519	DS201T C25 A30	2CSR255188R1254		0.2	1
		32	567714	DS201T C32 A30	2CSR255188R1324		0.2	1
		40	589914	DS201T C40 A30	2CSR255188R1404		0.2	1

RCBOs

DS201 T 6000 A type, K characteristics



DS201 T

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA).

Application: railway, rolling stock, traction.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 6000 A

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1P+N	30	6	589815	DS201T K6 A30	2CSR255188R1067		0.2	1
		10	578017	DS201T K10 A30	2CSR255188R1107		0.2	1
		13	566212	DS201T K13 A30	2CSR255188R1137		0.2	1
		16	587910	DS201T K16 A30	2CSR255188R1167		0.2	1
		20	576112	DS201T K20 A30	2CSR255188R1207		0.2	1
		25	564317	DS201T K25 A30	2CSR255188R1257		0.2	1
		32	591115	DS201T K32 A30	2CSR255188R1327		0.2	1
		40	579311	DS201T K40 A30	2CSR255188R1407		0.2	1

RCBOs

DS201 T 6000 APR type, C characteristic



DS201 T

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing an optimal trade-off between safety and continuity of service thanks to the resistance to unwanted tripping; protection against indirect contact and additional protection against direct contact (IΔn=30 mA); protection and isolation of resistive and inductive loads.

Application: railway, rolling stock, traction.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 6000 A

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1P+N	30	6	567516	DS201T C6 APR30	2CSR255488R1064		0.2	1
		10	588610	DS201T C10 APR30	2CSR255488R1104		0.2	1
		13	576815	DS201T C13 APR30	2CSR255488R1134		0.2	1
		16	565017	DS201T C16 APR30	2CSR255488R1164		0.2	1
		20	589716	DS201T C20 APR30	2CSR255488R1204		0.2	1
		25	577911	DS201T C25 APR30	2CSR255488R1254		0.2	1
		32	566113	DS201T C32 APR30	2CSR255488R1324		0.2	1
		40	591016	DS201T C40 APR30	2CSR255488R1404		0.2	1

RCBOs

DS201 T 6000 APR type, B characteristic



DS201 T

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing an optimal compromise between safety and continuity of service, thanks to the resistance to unwanted tripping; protection against indirect contact and additional protection against direct contact (IΔn=30 mA); protection and isolation of resistive and inductive loads.

Application: railway, rolling stock, traction.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 6000 A

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1P+N	30	6	579212	DS201T B6 APR30	2CSR255488R1065		0.2	1
		10	567417	DS201T B10 APR30	2CSR255488R1105		0.2	1
		13	589617	DS201T B13 APR30	2CSR255488R1135		0.2	1
		16	577812	DS201T B16 APR30	2CSR255488R1165		0.2	1
		20	566014	DS201T B20 APR30	2CSR255488R1205		0.2	1
		25	590910	DS201T B25 APR30	2CSR255488R1255		0.2	1
		32	579113	DS201T B32 APR30	2CSR255488R1325		0.2	1
		40	567318	DS201T B40 APR30	2CSR255488R1405		0.2	1

RCBOs

DS201 T 6000 A type, B characteristic



DS201 T

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA).

Application: railway, rolling stock, traction.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 6000 A

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1P+N	30	6	578116	DS201T B6 A30	2CSR255188R1065		0.2	1
		10	566311	DS201T B10 A30	2CSR255188R1105		0.2	1
		13	591214	DS201T B13 A30	2CSR255188R1135		0.2	1
		16	579410	DS201T B16 A30	2CSR255188R1165		0.2	1
		20	567615	DS201T B20 A30	2CSR255188R1205		0.2	1
		25	588719	DS201T B25 A30	2CSR255188R1255		0.2	1
		32	576914	DS201T B32 A30	2CSR255188R1325		0.2	1
		40	565116	DS201T B40 A30	2CSR255188R1405		0.2	1

RCBOs

DS201 UL technical features

				DS201 UL
	Standards			UL 1053, UL 1077,IEC 61009-1, IEC 61009-2-1
Electrical features	Type (wave form of the earth leakage sensed)			A
	Number of poles			1P + N
	Rated current In		A	6 ≤ In ≤ 20
	Rated sensitivity IΔn		A	0.03
	Rated voltage Ue		V	230-240
	Insulation voltage Ui		V	500 V AC
	Overvoltage category			III
	Pollution degree			2
	Operating voltage of circuit test Ut		V	110 – 264
	Rated frequency		Hz	50/60
	Rated breaking capacity acc. to To UL 1053, IEC 61009-1, IEC 61009-2-1	Icn	A	6 000
	Rated breaking capacity acc. to IEC 60947-2	ultimate Icu	kA	10
		service Ics	kA	7.5
	Rated residual breaking capacity IΔm according to IEC 61009-1	IΔm	A	6 000
	Rated impulse withstand voltage (1.2/50) Uimp		kV	4 kV
	Dielectric test voltage at ind. freq. for 1 min.		kV	2 kV (50 / 60Hz, 1 min.)
	Thermomagnetic release - characteristic	B: 3 In ≤ In ≤ 5 In		■
		C: 5 In ≤ In ≤ 10 In		■
	Rated residual breaking capacity IΔm		A	6 000
	Surge current resistance (wave 8/20 µs)			NA
Mechanical features	Housing			Insulation group I - II, RAL 7035
	Toggle			Insulation group II, Black RAL 9005, sealable in ON-OFF positions
	Contact position indication			Green/Red Window
	Earth fault trip indication			Blue flag on toggle
	Electrical life		operations	10000
	Mechanical life		operations	20000
	Protection degree acc. to EN 60529	housing		IP4X
		terminals		IP2X
	Shock resistance acc. to IEC/EN 60068-2-27			25g - 2 shocks - 13ms
	Vibration resistance acc. to IEC/EN 60068-2-6			0.1 mm or 1 g - 20 cycles at 5…150…5 Hz
	Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C / RH	28 cycles with 55°C/90-96% and 25°C/95-100%
	Reference temperature for setting of thermal element		°C / °F	30 / 86
	Ambient temperature (with daily average ≤ +35 °C)		°C / °F	-25…+55 / -13…+131
	Storage temperature		°C / °F	-40…+70 / -40…+158
Installation	Terminal type	top / bottom		Failsafe bi-directional cylinder-lift terminal (shock protected)
	Terminal size for solid cables	top / bottom	mm^2 / AWG	25/25 / 10/10
	Terminal size for stranded cables	top / bottom	mm^2 / AWG	16/16 / 6/6
	These terminals are not suitable for copper compact stranded conductors			
	Terminal size for busbars	top / bottom	mm^2 / AWG	10/8
	Tightening torque	top / bottom	Nm / in.lb	2.8 / 24.5
	Stripping length of the cable		mm / in	12 / 0.5
	Mounting			on DIN rail EN 60715 (35mm) by means of mounting clip
	Mounting position			Any
	Supply from			Top/Bottom terminals
Dimensions and weight	Dimensions (H x D x W)		mm / in	85 x 69 x 35 / 3.34 x 2.71 x 1.37
	Weight		g / lb	200 / 0.44
Combination with auxiliary elements	Combinable with accessories and auxiliaries	Auxiliary contact		yes
		Signal contact / auxiliary contact		yes
		Shunt trip		yes
		Auxiliary contact for bottom fitting		yes
		Undervoltage release		yes
		Overvoltage release		yes
		Motor operating device		yes

N.B The combination is mechanically compatible with but no UL approved.

RCBOs

DS201 UL technical features



DS201 UL

DS201 UL 6000 A type, B characteristic
Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA).

This particular series of devices is UL & CSA approved and is a supplementary protector.

Application: residential, commercial, industrial.
Standard: UL 1053 & 1077, CSA C22.2 N0. 144, CSA C22.2 N0. 235

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1+N	30	6	577614	DS201 B6 A30 UL	2CSR255187R1065		0.2	1
		10	565819	DS201 B10 A30 UL	2CSR255187R1105		0.2	1
		13	590712	DS201 B13 A30 UL	2CSR255187R1135		0.2	1
		16	578918	DS201 B16 A30 UL	2CSR255187R1165		0.2	1
		20	567170	DS201 B20 A30 UL	2CSR255187R1205		0.2	1



DS201 UL

DS201 UL 6000 A type, C characteristic
Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA).

This particular series of devices is UL & CSA approved and is a supplementary protector.

Application: residential, commercial, industrial.
Standard: UL 1053 & 1077, CSA C22.2 N0. 144, CSA C22.2 N0. 235

No. of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1+N	30	6	588511	DS201 C6 A30 UL	2CSR255187R1064		0.2	1
		10	576716	DS201 C10 A30 UL	2CSR255187R1104		0.2	1
		13	564911	DS201 C13 A30 UL	2CSR255187R1134		0.2	1
		16	589518	DS201 C16 A30 UL	2CSR255187R1164		0.2	1
		20	577713	DS201 C20 A30 UL	2CSR255187R1204		0.2	1

RCBOs

DS202C technical features

				DS202C	DS202C M	DS202C M	DS202C M 110V
	Standards			IEC/EN 61009-1; IEC/EN 61009-2-1			IEC 61009-1; IEC 61009-2-1
Electrical features	Type (wave form of the earth leakage sensed)			A	A	APR	A
	Poles			2P	2P	2P	2P
	Rated current In		A	6 ≤ In ≤ 32	6 ≤ In ≤ 32	6 ≤ In ≤ 32	6 ≤ In ≤ 32
	Rated sensitivity IΔn		A	0.03-0.3	0.01-0.03-0.3	0.03-0.3	0.03
	Rated voltage Ue		V	230-240	230-240	230-240	230-240
	Insulation voltage Ui		V	500	500	500	500
	Operating voltage of circuit test Ut		V	110 (170 for 30 mA) - 254	110 (170 for 30 mA) - 254	110 (170 for 30 mA) - 254	110-254
	Rated frequency		Hz	50…60	50…60	50…60	50…60
	Rated breaking capacity acc. to IEC/EN 61009	ultimate Icn	A	6000	10000	10000	10000
	Rated breaking capacity acc. to IEC/EN 60947-2	ultimate Icu	kA	10	10	10	10
	2P @230 VAC	service Ics	kA	6	7.5	7.5	7.5
	Rated residual breaking capacity IΔm		kA	6	6	6	6
	Rated impulse withstand voltage (1.2/50) Uimp		kV	4	4	4	4
	Dielectric test voltage at ind. freq. for 1 min.		kV	2.5	2.5	2.5	2.5
	Thermomagnetic release characteristic	B: 3 In ≤ Im ≤ 5 In		■	■	■	
		C: 5 In ≤ Im ≤ 10 In		■	■	■	■
	Surge current resistance (wave 8/20)		A	NA for A, AC versions; 3000 for APR version			
Mechanical features	Toggle			black sealable in ON-OFF position			
	Flag indicators			differential trip indicator (blue)			
				contact position indicator (green/red)			
	Electrical life			10000	10000	10000	10000
	Mechanical life			20000	20000	20000	20000
	Protection degree	housing		IP4X	IP4X	IP4X	IP4X
		terminals		IP2X	IP2X	IP2X	IP2X
	Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C/RH	28 cycles with 55°C/90-96% and 25°C/95-100%			
	Reference temperature for setting of thermal element		°C	30	30	30	30
	Ambient temperature (with daily average ≤ +35 °C)		°C	-25…+55	-25…+55	-25…+55	-25…+55
	Storage temperature		°C	-40…+70	-40…+70	-40…+70	-40…+70
Installation	Terminal type	top		failsafe bi-directional cylinder-lift terminal at top and bottom (shock protected)			
		bottom		failsafe bi-directional cylinder-lift terminal at top and bottom (shock protected)			
	Terminal size top/bottom for cables		mm^2	25/25	25/25	25/25	25/25
	Terminal size top/bottom for busabar		mm^2	10/10	10/10	10/10	10/10
	Tightening torque top/bottom		Nm	2.8	2.8	2.8	2.8
	Mounting			on DIN rail EN 60715 (35 mm) by means of fast clip device			
	Mounting position			Any	Any	Any	Any
	Connection			from top and bottom	from top and bottom	from top and bottom	from top and bottom
Dimensions and weight	Dimensions (H x D x W)		mm	85 x 69 x 35	85 x 69 x 35	85 x 69 x 35	85 x 69 x 35
	Weight		g	239	239	239	239
Combination with auxiliary elements	Combinable with:	auxiliary contact		yes	yes	yes	yes
		signal contact		yes	yes	yes	yes
		shunt trip		yes	yes	yes	yes
		undervoltage release		yes	yes	yes	yes

RCBOs

DS202C series 6000 A type, B characteristic



DS202C

DS202C A type, B characteristic
Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA).

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 6 000 A

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	6	132257	DS202C B6 A30	2CSR252140R1065		0.240	1
		10	132356	DS202C B10 A30	2CSR252140R1105		0.240	1
		13	132455	DS202C B13 A30	2CSR252140R1135		0.240	1
		16	132554	DS202C B16 A30	2CSR252140R1165		0.240	1
		20	132653	DS202C B20 A30	2CSR252140R1205		0.240	1
		25	132752	DS202C B25 A30	2CSR252140R1255		0.240	1
		32	132851	DS202C B32 A30	2CSR252140R1325		0.240	1
	300	6	132950	DS202C B6 A300	2CSR252140R3065		0.240	1
		10	133056	DS202C B10 A300	2CSR252140R3105		0.240	1
		13	133155	DS202C B13 A300	2CSR252140R3135		0.240	1
		16	133254	DS202C B16 A300	2CSR252140R3165		0.240	1
		20	133353	DS202C B20 A300	2CSR252140R3205		0.240	1
		25	133452	DS202C B25 A300	2CSR252140R3255		0.240	1
		32	133551	DS202C B32 A300	2CSR252140R3325		0.240	1

RCBOs

DS202C series 6000 A type, C characteristic



DS202C

DS202C A type, C characteristic
Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA).

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 6 000 A

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	6	122357	DS202C C6 A30	2CSR252140R1064		0.240	1
		10	122456	DS202C C10 A30	2CSR252140R1104		0.240	1
		13	122555	DS202C C13 A30	2CSR252140R1134		0.240	1
		16	122654	DS202C C16 A30	2CSR252140R1164		0.240	1
		20	122753	DS202C C20 A30	2CSR252140R1204		0.240	1
		25	122852	DS202C C25 A30	2CSR252140R1254		0.240	1
		32	122951	DS202C C32 A30	2CSR252140R1324		0.240	1
	300	6	123057	DS202C C6 A300	2CSR252140R3064		0.240	1
		10	123156	DS202C C10 A300	2CSR252140R3104		0.240	1
		13	123255	DS202C C13 A300	2CSR252140R3134		0.240	1
		16	123354	DS202C C16 A300	2CSR252140R3164		0.240	1
		20	123453	DS202C C20 A300	2CSR252140R3204		0.240	1
		25	123552	DS202C C25 A300	2CSR252140R3254		0.240	1
		32	123651	DS202C C32 A300	2CSR252140R3324		0.240	1

RCBOs

DS202C M series 10000 A type, B characteristic



DS202C M

DS202C M A type, B characteristic
Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA).

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 10 000 A

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	10	10	124856	DS202C M B10 A10	2CSR272140R0105		0.240	1
		13	117759	DS202C M B13 A10	2CSR272140R0135		0.240	1
		16	117858	DS202C M B16 A10	2CSR272140R0165		0.240	1
	30	6	118152	DS202C M B6 A30	2CSR272140R1065		0.240	1
		10	118251	DS202C M B10 A30	2CSR272140R1105		0.240	1
		13	118350	DS202C M B13 A30	2CSR272140R1135		0.240	1
		16	118459	DS202C M B16 A30	2CSR272140R1165		0.240	1
		20	118558	DS202C M B20 A30	2CSR272140R1205		0.240	1
		25	118657	DS202C M B25 A30	2CSR272140R1255		0.240	1
		32	118756	DS202C M B32 A30	2CSR272140R1325		0.240	1
	300	6	119555	DS202C M B6 A300	2CSR272140R3065		0.240	1
		10	119654	DS202C M B10 A300	2CSR272140R3105		0.240	1
		13	119753	DS202C M B13 A300	2CSR272140R3135		0.240	1
		16	119852	DS202C M B16 A300	2CSR272140R3165		0.240	1
		20	119951	DS202C M B20 A300	2CSR272140R3205		0.240	1
		25	120056	DS202C M B25 A300	2CSR272140R3255		0.240	1
		32	120155	DS202C M B32 A300	2CSR272140R3325		0.240	1

RCBOs

DS202C M series 10000 A type, C characteristic



DS202C M

DS202C M A type, C characteristic
Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA).

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 10 000 A

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	10	13	117957	DS202C M C13 A10	2CSR272140R0134		0.240	1
		16	118053	DS202C M C16 A10	2CSR272140R0164		0.240	1
	30	6	118855	DS202C M C6 A30	2CSR272140R1064		0.240	1
		10	118954	DS202C M C10 A30	2CSR272140R1104		0.240	1
		13	119050	DS202C M C13 A30	2CSR272140R1134		0.240	1
		16	119159	DS202C M C16 A30	2CSR272140R1164		0.240	1
		20	119258	DS202C M C20 A30	2CSR272140R1204		0.240	1
		25	119357	DS202C M C25 A30	2CSR272140R1254		0.240	1
		32	119456	DS202C M C32 A30	2CSR272140R1324		0.240	1
	300	6	120254	DS202C M C6 A300	2CSR272140R3064		0.240	1
		10	120353	DS202C M C10 A300	2CSR272140R3104		0.240	1
		13	120452	DS202C M C13 A300	2CSR272140R3134		0.240	1
		16	120551	DS202C M C16 A300	2CSR272140R3164		0.240	1
		20	120650	DS202C M C20 A300	2CSR272140R3204		0.240	1
		25	120759	DS202C M C25 A300	2CSR272140R3254		0.240	1
		32	120858	DS202C M C32 A300	2CSR272140R3324		0.240	1

RCBOs

DS202C M series 10000 A APR type, B characteristic



DS202C M

DS202C M APR type, B characteristic
Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA).

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 10 000 A

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	6	120957	DS202C M B6 APR30	2CSR272440R1065		0.240	1
		10	121053	DS202C M B10 APR30	2CSR272440R1105		0.240	1
		13	121152	DS202C M B13 APR30	2CSR272440R1135		0.240	1
		16	121251	DS202C M B16 APR30	2CSR272440R1165		0.240	1
		20	121350	DS202C M B20 APR30	2CSR272440R1205		0.240	1
		25	121459	DS202C M B25 APR30	2CSR272440R1255		0.240	1
		32	121558	DS202C M B32 APR30	2CSR272440R1325		0.240	1
	300	6	124955	DS202C M B6 APR300	2CSR272440R3065		0.240	1
		10	125051	DS202C M B10 APR300	2CSR272440R3105		0.240	1
		13	125150	DS202C M B13 APR300	2CSR272440R3135		0.240	1
		16	125259	DS202C M B16 APR300	2CSR272440R3165		0.240	1
		20	125358	DS202C M B20 APR300	2CSR272440R3205		0.240	1
		25	125457	DS202C M B25 APR300	2CSR272440R3255		0.240	1
		32	125556	DS202C M B32 APR300	2CSR272440R3325		0.240	1

RCBOs

DS202C M series 10000 APR type, C characteristic



DS202C M

DS202C M APR type, C characteristic
Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA).

Application: residential, commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 10 000 A

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	6	121657	DS202C M C6 APR30	2CSR272440R1064		0.240	1
		10	121756	DS202C M C10 APR30	2CSR272440R1104		0.240	1
		13	121855	DS202C M C13 APR30	2CSR272440R1134		0.240	1
		16	121954	DS202C M C16 APR30	2CSR272440R1164		0.240	1
		20	122050	DS202C M C20 APR30	2CSR272440R1204		0.240	1
		25	122159	DS202C M C25 APR30	2CSR272440R1254		0.240	1
		32	122258	DS202C M C32 APR30	2CSR272440R1324		0.240	1

RCBOs

DS202C M 110V series 10000 A type, C characteristic



DS202C M 110V

DS202C M 110V A type, C characteristic
Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn = 30 mA). This particular series of devices has the minimum operating voltage of test button of 110V and it is suitable for 230 V applications.

Application: residential, commercial, industrial.
Standard: IEC 61009-1; IEC 61009-2-1
Icn = 10 000 A

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	6	079934	DS202C M C6 A30 110V	2CSR272199R1064		0.240	1
		10	079835	DS202C M C10 A30 110V	2CSR272199R1104		0.240	1
		13	079330	DS202C M C13 A30 110V	2CSR272199R1134		0.240	1
		15		431459 DS202C M C15 A30 110V	2CSR272199R1154		0.240	1
		16	079736	DS202C M C16 A30 110V	2CSR272199R1164		0.240	1
		20	079637	DS202C M C20 A30 110V	2CSR272199R1204		0.240	1
		25	079538	DS202C M C25 A30 110V	2CSR272199R1254		0.240	1
		32	079439	DS202C M C32 A30 110V	2CSR272199R1324		0.240	1

Notes

RCBO DS203NC. The effective choice

The benefits of a product with the highest quality standards

Compact size for easy installation in small spaces and retrofitting of already existing facilities.

Terminals designed to ease the installation.



Test pushbutton to verify the correct functioning of the device.

Operating toggle can be sealed into on/off position to ensure maintenance in complete safety.

The indication of the status of the contacts is done with a mechanical connection to the mobile contacts and independently from the toggle position.
The contacts position indicator (CPI) allows to exactly know the status of the contacts of the device (green: open contacts, red: closed contacts).

Space for identification labels of the protected line.

Same profile as the System pro M compact® range.



Use with cables and with busbars
Terminals with two slots allow to use different types of conductors: one housing is designed for cables up to 25 mm², the other for busbars or cables up to 10 mm².



RFid
Radio frequency tracking via a radio frequency tag to facilitate logistics and to be assured of the originality of the product.



Differential trip indicator
In case of tripping due to earth fault, a blue flag appears on the toggle thus immediate showing the cause of trip of the device. This feature helps in troubleshooting on the network and reduces the downtime for maintenance.



Laser print information
All the necessary technical and installation information are laser printed on the front and side of units ensuring visibility along the time, including order code on front of device for future orders.



Mounting clip
The mounting clip eases the installation and removal from the DIN rail, even when used in a battery of devices with busbars on bottom terminals (without need of remove other devices).



Approval stamps
DS203NC residual current circuit breakers with overcurrent protection can meet the different installation habits in the various countries and are approved by the most important certification bodies like IMQ, VDE, EAC, KEMA.

RCBOs

DS203NC technical features

			DS203NC L	DS203NC
Standards			IEC/EN 61009-1; IEC/EN 61009-2-1	IEC/EN 61009-1; IEC/EN 61009-2-1
Electrical features				
Type (wave form of the earth leakage sensed)			AC, A, APR	AC, A, APR, S
Number of poles			3P+N	3P+N
Rated current In		A	6≤ In ≤ 32A	6≤ In ≤ 32A
Rated sensitivity IΔn		mA	30-300	30-100-300
Rated voltage Ue		V	400-415V	400-415V
Insulation voltage Ui		V	500 V AC	500 V AC
Overvoltage category			III	III
Pollution degree			2	2
Operating voltage of circuit test Ut		V	195 (300 for 30 mA) - 440	
Rated frequency		Hz	50/60	50/60
Rated breaking capacity acc. to IEC/ EN 61009	ultimate Icn	A	4500	6000
Rated breaking capacity acc. to IEC/EN 60947-2	ultimate Icu	kA	6	10
	service Ics	kA	4.5	5
Rated residual breaking capacity IΔm acc. To EN 61009		kA	4.5	6
Rated residual breaking capacity IΔm acc. to IEC 61009		kA	4.5	4.5
Rated impulse withstand voltage (1.2/50) Uimp		kV	4	4
Dielectric test voltage at ind. freq. for 1 min.		kV	2.5	2.5
Thermomagnetic release - characteristic	B: 3 In ≤ Im ≤ 5 In			■
	C: 5 In ≤ Im ≤ 10 In		■	■
	K: 10 In ≤ Im ≤ 14 In			■
Surge current resistance (wave 8/20)		A	NA for A, AC versions; 3000 for APR version	NA for A, AC versions; 3000 for APR version; 5000 for S version
Mechanical features				
Housing			Insulation group II, RAL 7035	Insulation group II, RAL 7035
Toggle			black, sealable in ON-OFF positions	black, sealable in ON-OFF positions
Flag indicator			Differential trip indicator: blue on toggle	Differential trip indicator: blue on toggle
Contact position indication			CPI on window	CPI on window
Electrical life		operations	10000	10000
Mechanical life		operations	20000	20000
Protection degree	housing		IP4X	IP4X
	terminals		IP2X	IP2X
Shock resistance acc. to IEC/EN 60068-2-27			30g - 2 shocks - 13ms	30g - 2 shocks - 13ms
Vibration resistance acc. to IEC/ EN 60068-2-6			0,35mm or 5g - 20 cycles at 5…150…5 Hz without load	0,35mm or 5g - 20 cycles at 5…150…5 Hz without load
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C/RH	28 cycles with 55°C/90-96% and 25°C/95-100%	28 cycles with 55°C/90-96% and 25°C/95-100%
Reference temperature for setting of thermal element		°C	30	30
Ambient temperature (with daily average ≤ +35 °C)		°C	-25…+55	-25…+55
Storage temperature		°C	-40…+70	-40…+70

RCBOs

DS203NC technical features

			DS203NC L	DS203NC
Installation				
Terminal type	top/ bottom		failsafe bi-directional cylinder-lift terminal (shock protected)	failsafe bi-directional cylinder-lift terminal (shock protected)
Terminal size for cables	top/ bottom	mm^2	25/25	25/25
Terminal size for busbars	top/ bottom	mm^2	10/10	10/10
Tightening torque	top/ bottom	Nm	2.8	2.8
Mounting			on DIN rail EN 60715 (35 mm) by means of mounting clip	on DIN rail EN 60715 (35 mm) by means of mounting clip
Supply from			Top/bottom terminals	Top/bottom terminals
Dimensions and weight				
Dimensions (H x D x W)		mm	85 x 69 x 70.4	85 x 69 x 70.4
Weight		g	480	480
Combination with auxiliary elements				
Combinable with accessories and auxiliaries, by means of interface contact SN201-IH	Auxiliary contact		yes	yes
	Signal contact		yes	yes
	Shunt trip		yes	yes
	Undervoltage release		yes	yes
	Overvoltage release		yes	yes

RCBOs

DS203NC L AC



DS203NC L - AC

DS203NC L - AC type - C curve
Function: protection of end user three-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn = 30 mA).

Application: commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 4 500 A

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3P+N	30	6	353928	DS203NC L C6 AC30	2CSR246040R1064		0.480	1
		8	343622	DS203NC L C8 AC30	2CSR246040R1084		0.480	1
		10	353829	DS203NC L C10 AC30	2CSR246040R1104		0.480	1
		13	343523	DS203NC L C13 AC30	2CSR246040R1134		0.480	1
		16	353720	DS203NC L C16 AC30	2CSR246040R1164		0.480	1
		20	343424	DS203NC L C20 AC30	2CSR246040R1204		0.480	1
		25	353621	DS203NC L C25 AC30	2CSR246040R1254		0.480	1
		32	343325	DS203NC L C32 AC30	2CSR246040R1324		0.480	1
	300	6	343226	DS203NC L C6 AC300	2CSR246040R3064		0.480	1
		8	343127	DS203NC L C8 AC300	2CSR246040R3084		0.480	1
		10	343028	DS203NC L C10 AC300	2CSR246040R3104		0.480	1
		13	342922	DS203NC L C13 AC300	2CSR246040R3134		0.480	1
		16	776727	DS203NC L C16 AC300	2CSR246040R3164		0.480	1
		20	342823	DS203NC L C20 AC300	2CSR246040R3204		0.480	1
		25	342724	DS203NC L C25 AC300	2CSR246040R3254		0.480	1
		32	358428	DS203NC L C32 AC300	2CSR246040R3324		0.480	1

RCBOs

DS203NC L A type



DS203NC L - A

DS203NC L - A type - C curve
Function: protection of end user three-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn = 30 mA).

Application: commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 4 500 A

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3P+N	30	6	354628	DS203NC L C6 A30	2CSR246140R1064		0.480	1
		8	344322	DS203NC L C8 A30	2CSR246140R1084		0.480	1
		10	354529	DS203NC L C10 A30	2CSR246140R1104		0.480	1
		13	344223	DS203NC L C13 A30	2CSR246140R1134		0.480	1
		16	354420	DS203NC L C16 A30	2CSR246140R1164		0.480	1
		20	344124	DS203NC L C20 A30	2CSR246140R1204		0.480	1
		25	354321	DS203NC L C25 A30	2CSR246140R1254		0.480	1
		32	498025	DS203NC L C32 A30	2CSR246140R1324		0.480	1
	300	6	499220	DS203NC L C6 A300	2CSR246140R3064		0.480	1
		8	344025	DS203NC L C8 A300	2CSR246140R3084		0.480	1
		10	354222	DS203NC L C10 A300	2CSR246140R3104		0.480	1
		13	343929	DS203NC L C13 A300	2CSR246140R3134		0.480	1
		16	354123	DS203NC L C16 A300	2CSR246140R3164		0.480	1
		20	343820	DS203NC L C20 A300	2CSR246140R3204		0.480	1
		25	354024	DS203NC L C25 A300	2CSR246140R3254		0.480	1
		32	343721	DS203NC L C32 A300	2CSR246140R3324		0.480	1

RCBOs

DS203NC L APR type



DS203NC L - APR

DS203NC L - APR type - C curve
Function: protection of end user three-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing an optimal compromise between safety and continuity of service, thanks to the resistance to unwanted tripping; protection against indirect contact and additional protection against direct contact (IΔn = 30 mA); protection and isolation of resistive and inductive loads.

Application: commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 4 500 A

Number of poles	Rated residual current IΔn mA	Rated current	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
		In A	EAN	Type code	Order code		kg	pc.
3P+N	30	6	079125	DS203NC L C6 APR30	2CSR246440R1064		0.480	1
		8	079026	DS203NC L C8 APR30	2CSR246440R1084		0.480	1
		10	078920	DS203NC L C10 APR30	2CSR246440R1104		0.480	1
		13	078821	DS203NC L C13 APR30	2CSR246440R1134		0.480	1
		16	078722	DS203NC L C16 APR30	2CSR246440R1164		0.480	1
		20	078623	DS203NC L C20 APR30	2CSR246440R1204		0.480	1
		25	078524	DS203NC L C25 APR30	2CSR246440R1254		0.480	1
		32	078425	DS203NC L C32 APR30	2CSR246440R1324		0.480	1

RCBOs

DS203NC AC ∿ type



DS203NC - AC

DS203NC - AC type - B curve
Function: protection of end user three-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn = 30 mA).

Application: commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 6 000 A

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3P+N	30	6	077428	DS203NC B6 AC30	2CSR256040R1065		0.480	1
		8	077329	DS203NC B8 AC30	2CSR256040R1085		0.480	1
		10	077220	DS203NC B10 AC30	2CSR256040R1105		0.480	1
		13	077121	DS203NC B13 AC30	2CSR256040R1135		0.480	1
		16	077022	DS203NC B16 AC30	2CSR256040R1165		0.480	1
		20	076926	DS203NC B20 AC30	2CSR256040R1205		0.480	1
		25	790525	DS203NC B25 AC30	2CSR256040R1255		0.480	1
		32	076827	DS203NC B32 AC30	2CSR256040R1325		0.480	1
	100	6	076728	DS203NC B6 AC100	2CSR256040R2065		0.480	1
		8	076629	DS203NC B8 AC100	2CSR256040R2085		0.480	1
		10	076520	DS203NC B10 AC100	2CSR256040R2105		0.480	1
		13	076421	DS203NC B13 AC100	2CSR256040R2135		0.480	1
		16	076322	DS203NC B16 AC100	2CSR256040R2165		0.480	1
		20	076223	DS203NC B20 AC100	2CSR256040R2205		0.480	1
		25	076124	DS203NC B25 AC100	2CSR256040R2255		0.480	1
		32	076025	DS203NC B32 AC100	2CSR256040R2325		0.480	1
	300	6	353423	DS203NC B6 AC300	2CSR256040R3065		0.480	1
		8	353324	DS203NC B8 AC300	2CSR256040R3085		0.480	1
		10	266327	DS203NC B10 AC300	2CSR256040R3105		0.480	1
		13	266228	DS203NC B13 AC300	2CSR256040R3135		0.480	1
		16	266129	DS203NC B16 AC300	2CSR256040R3165		0.480	1
		20	266020	DS203NC B20 AC300	2CSR256040R3205		0.480	1
		25	265924	DS203NC B25 AC300	2CSR256040R3255		0.480	1
		32	790822	DS203NC B32 AC300	2CSR256040R3325		0.480	1

RCBOs

DS203NC AC ∿ type



DS203NC - AC

DS203NC - AC type - C curve
Function: protection of end user three-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn = 30 mA).

Application: commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 6 000 A

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3P+N	30	6	265825	DS203NC C6 AC30	2CSR256040R1064		0.480	1
		8	353225	DS203NC C8 AC30	2CSR256040R1084		0.480	1
		10	518228	DS203NC C10 AC30	2CSR256040R1104		0.480	1
		13	186823	DS203NC C13 AC30	2CSR256040R1134		0.480	1
		16	352228	DS203NC C16 AC30	2CSR256040R1164		0.480	1
		20	186724	DS203NC C20 AC30	2CSR256040R1204		0.480	1
		25	352129	DS203NC C25 AC30	2CSR256040R1254		0.480	1
		32	263920	DS203NC C32 AC30	2CSR256040R1324		0.480	1
	100	6	263821	DS203NC C6 AC100	2CSR256040R2064		0.480	1
		8	263722	DS203NC C8 AC100	2CSR256040R2084		0.480	1
		10	263623	DS203NC C10 AC100	2CSR256040R2104		0.480	1
		13	263524	DS203NC C13 AC100	2CSR256040R2134		0.480	1
		16	518327	DS203NC C16 AC100	2CSR256040R2164		0.480	1
		20	263425	DS203NC C20 AC100	2CSR256040R2204		0.480	1
		25	186021	DS203NC C25 AC100	2CSR256040R2254		0.480	1
		32	352020	DS203NC C32 AC100	2CSR256040R2324		0.480	1
	300	6	185925	DS203NC C6 AC300	2CSR256040R3064		0.480	1
		8	185826	DS203NC C8 AC300	2CSR256040R3084		0.480	1
		10	185727	DS203NC C10 AC300	2CSR256040R3104		0.480	1
		13	185628	DS203NC C13 AC300	2CSR256040R3134		0.480	1
		16	185529	DS203NC C16 AC300	2CSR256040R3164		0.480	1
		20	185420	DS203NC C20 AC300	2CSR256040R3204		0.480	1
		25	517825	DS203NC C25 AC300	2CSR256040R3254		0.480	1
		32	180821	DS203NC C32 AC300	2CSR256040R3324		0.480	1

RCBOs

DS203NC A type



DS203NC - A

DS203NC - A type - B curve
Function: protection of end user three-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn = 30 mA).

Application: commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 6 000 A

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3P+N	30	6	078326	DS203NC B6 A30	2CSR256140R1065		0.480	1
		8	078227	DS203NC B8 A30	2CSR256140R1085		0.480	1
		10	078128	DS203NC B10 A30	2CSR256140R1105		0.480	1
		13	078029	DS203NC B13 A30	2CSR256140R1135		0.480	1
		16	077923	DS203NC B16 A30	2CSR256140R1165		0.480	1
		20	077824	DS203NC B20 A30	2CSR256140R1205		0.480	1
		25	077725	DS203NC B25 A30	2CSR256140R1255		0.480	1
		32	077626	DS203NC B32 A30	2CSR256140R1325		0.480	1
	100	6	080329	DS203NC B6 A100	2CSR256140R2065		0.480	1
		8	080220	DS203NC B8 A100	2CSR256140R2085		0.480	1
		10	080121	DS203NC B10 A100	2CSR256140R2105		0.480	1
		13	080022	DS203NC B13 A100	2CSR256140R2135		0.480	1
		16	079927	DS203NC B16 A100	2CSR256140R2165		0.480	1
		20	079828	DS203NC B20 A100	2CSR256140R2205		0.480	1
		25	079729	DS203NC B25 A100	2CSR256140R2255		0.480	1
		32	079620	DS203NC B32 A100	2CSR256140R2325		0.480	1
	300	6	079521	DS203NC B6 A300	2CSR256140R3065		0.480	1
		8	079422	DS203NC B8 A300	2CSR256140R3085		0.480	1
		10	079323	DS203NC B10 A300	2CSR256140R3105		0.480	1
		13	079224	DS203NC B13 A300	2CSR256140R3135		0.480	1
		16	305026	DS203NC B16 A300	2CSR256140R3165		0.480	1
		20	305125	DS203NC B20 A300	2CSR256140R3205		0.480	1
		25	400226	DS203NC B25 A300	2CSR256140R3255		0.480	1
		32	400028	DS203NC B32 A300	2CSR256140R3325		0.480	1

RCBOs

DS203NC A type



DS203NC - A

DS203NC - A type - C curve
Function: protection of end user three-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn = 30 mA).

Application: commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 6 000 A

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3P+N	30	6	400127	DS203NC C6 A30	2CSR256140R1064		0.480	1
		8	058823	DS203NC C8 A30	2CSR256140R1084		0.480	1
		10	896524	DS203NC C10 A30	2CSR256140R1104		0.480	1
		13	768227	DS203NC C13 A30	2CSR256140R1134		0.480	1
		16	830924	DS203NC C16 A30	2CSR256140R1164		0.480	1
		20	839927	DS203NC C20 A30	2CSR256140R1204		0.480	1
		25	768524	DS203NC C25 A30	2CSR256140R1254		0.480	1
		32	831228	DS203NC C32 A30	2CSR256140R1324		0.480	1
	100	6	840220	DS203NC C6 A100	2CSR256140R2064		0.480	1
		8	896425	DS203NC C8 A100	2CSR256140R2084		0.480	1
		10	768128	DS203NC C10 A100	2CSR256140R2104		0.480	1
		13	830825	DS203NC C13 A100	2CSR256140R2134		0.480	1
		16	839828	DS203NC C16 A100	2CSR256140R2164		0.480	1
		20	896722	DS203NC C20 A100	2CSR256140R2204		0.480	1
		25	768425	DS203NC C25 A100	2CSR256140R2254		0.480	1
		32	831129	DS203NC C32 A100	2CSR256140R2324		0.480	1
	300	6	840121	DS203NC C6 A300	2CSR256140R3064		0.480	1
		8	830726	DS203NC C8 A300	2CSR256140R3084		0.480	1
		10	839729	DS203NC C10 A300	2CSR256140R3104		0.480	1
		13	896623	DS203NC C13 A300	2CSR256140R3134		0.480	1
		16	768326	DS203NC C16 A300	2CSR256140R3164		0.480	1
		20	831020	DS203NC C20 A300	2CSR256140R3204		0.480	1
		25	840022	DS203NC C25 A300	2CSR256140R3254		0.480	1
		32	631620	DS203NC C32 A300	2CSR256140R3324		0.480	1

RCBOs

DS203NC A type



DS203NC - A

DS203NC - A type - K curve
Function: protection of end user three-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn = 30 mA).

Application: commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 6 000 A

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3P+N	30	6	376026	DS203NC K6 A30	2CSR256140R1067		0.480	1
		8	629726	DS203NC K8 A30	2CSR256140R1087		0.480	1
		10	375920	DS203NC K10 A30	2CSR256140R1107		0.480	1
		13	779322	DS203NC K13 A30	2CSR256140R1137		0.480	1
		16	769323	DS203NC K16 A30	2CSR256140R1167		0.480	1
		20	631521	DS203NC K20 A30	2CSR256140R1207		0.480	1
		25	375821	DS203NC K25 A30	2CSR256140R1257		0.480	1
		32	779223	DS203NC K32 A30	2CSR256140R1327		0.480	1
	100	6	593423	DS203NC K6 A100	2CSR256140R2067		0.480	1
		8	581628	DS203NC K8 A100	2CSR256140R2087		0.480	1
		10	569824	DS203NC K10 A100	2CSR256140R2107		0.480	1
		13	594727	DS203NC K13 A100	2CSR256140R2137		0.480	1
		16	582922	DS203NC K16 A100	2CSR256140R2167		0.480	1
		20	571124	DS203NC K20 A100	2CSR256140R2207		0.480	1
		25	592426	DS203NC K25 A100	2CSR256140R2257		0.480	1
		32	580621	DS203NC K32 A100	2CSR256140R2327		0.480	1

RCBOs

DS203NC APR type



DS203NC - APR

DS203NC - APR type - C curve
Function: protection of end user three-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing an optimal compromise between safety and continuity of service, thanks to the resistance to unwanted tripping; protection against indirect contact and additional protection against direct contact (IΔn = 30 mA); protection and isolation of resistive and inductive loads.

Application: commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 6000 A

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3P+N	30	6	349822	DS203NC C6 APR30	2CSR256440R1064		0.480	1
		8	180722	DS203NC C8 APR30	2CSR256440R1084		0.480	1
		10	349723	DS203NC C10 APR30	2CSR256440R1104		0.480	1
		13	261520	DS203NC C13 APR30	2CSR256440R1134		0.480	1
		16	261421	DS203NC C16 APR30	2CSR256440R1164		0.480	1
		20	261322	DS203NC C20 APR30	2CSR256440R1204		0.480	1
		25	261223	DS203NC C25 APR30	2CSR256440R1254		0.480	1
		32	261124	DS203NC C32 APR30	2CSR256440R1324		0.480	1
	100	6	274223	DS203NC C6 APR100	2CSR256440R2064		0.480	1
		8	517924	DS203NC C8 APR100	2CSR256440R2084		0.480	1
		10	261025	DS203NC C10 APR100	2CSR256440R2104		0.480	1
		13	180029	DS203NC C13 APR100	2CSR256440R2134		0.480	1
		16	349624	DS203NC C16 APR100	2CSR256440R2164		0.480	1
		20	179924	DS203NC C20 APR100	2CSR256440R2204		0.480	1
		25	179825	DS203NC C25 APR100	2CSR256440R2254		0.480	1
		32	179726	DS203NC C32 APR100	2CSR256440R2324		0.480	1
	300	6	179627	DS203NC C6 APR300	2CSR256440R3064		0.480	1
		8	179528	DS203NC C8 APR300	2CSR256440R3084		0.480	1
		10	179429	DS203NC C10 APR300	2CSR256440R3104		0.480	1
		13	518020	DS203NC C13 APR300	2CSR256440R3134		0.480	1
		16	176329	DS203NC C16 APR300	2CSR256440R3164		0.480	1
		20	351023	DS203NC C20 APR300	2CSR256440R3204		0.480	1
		25	176220	DS203NC C25 APR300	2CSR256440R3254		0.480	1
		32	350927	DS203NC C32 APR300	2CSR256440R3324		0.480	1

RCBOs

DS203NC A S type



DS203NC - A S

DS203NC - A S type - C curve
Function: protection of end user three-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn = 30 mA). Selective type.

Application: commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 6 000 A

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3P+N	100	16	021827	DS203NC C16 A S100	2CSR256240R2164		0.480	1
		20	021728	DS203NC C20 A S100	2CSR256240R2204		0.480	1
		25	021629	DS203NC C25 A S100	2CSR256240R2254		0.480	1
		32	021520	DS203NC C32 A S100	2CSR256240R2324		0.480	1
	300	16	297727	DS203NC C16 A S300	2CSR256240R3164		0.480	1
		20	373223	DS203NC C20 A S300	2CSR256240R3204		0.480	1
		25	373124	DS203NC C25 A S300	2CSR256240R3254		0.480	1
		32	077527	DS203NC C32 A S300	2CSR256240R3324		0.480	1

RCBOs

DS 200 technical features



DS 200

	Standards		
Electrical features	Operating characteristic: type (wave form of the earth leakage sensed)		
	Poles		
	Rated sensitivity IΔn		A
	Rated current In		A
	Rated voltage Ue	2P	V
		3P, 4P	V
	Insulation voltage Ui		V
	Operating voltage of circuit test Ut	2P	V
		3P	V
		4P	V
	Rated frequency		Hz
	Rated breaking capacity acc. to IEC/EN 61009	ultimate Icn	A
	Rated breaking capacity acc. to IEC/EN 60947-2 1P+N @230 VAC, 2P, 3P, 4P @400 VAC	ultimate Icu	kA
		service Ics	kA
	Rated residual breaking capacity IΔm		kA
	Rated impulse withstand voltage (1.2/50) Uimp		kV
	Dielectric test voltage at ind. freq. for 1 min.		kV
	Overvoltage category		
	Thermomagnetic release characteristic	B: 3 In ≤ Im ≤ 5 In	
		C: 5 In ≤ Im ≤ 10 In	
		K: 10 In ≤ Im ≤ 14 In	
	Surge current resistance (wave 8/20)		A
Mechanical features	Toggle	2P, 3P, 4P	
	Contact position indication		
	Electrical life		
	Mechanical life		
	Protection degree	housing	
		terminals	
	Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C/RH
	Shock resistance acc. to IEC/EN 60068-2-27		
	Vibration resistance acc. to IEC/EN 60068-2-6		
	Reference temperature for setting of thermal element		°C
	Ambient temperature (with daily average ≤ +35 °C)		°C
	Storage temperature		°C
Installation	Terminal type	top	
		bottom 2P	
		3P/4P In ≤ 40 A	
		3P/4P 50 A ≤ In ≤ 63 A	
	Terminal size top/bottom per cable	2P	mm^2
		3P/4P In ≤ 40 A	mm^2
		3P/4P 50 A ≤ In ≤ 63 A	mm^2
	Tightening torque top/bottom	2P	Nm
		3P/4P In ≤ 40 A	Nm
		3P/4P 50 A ≤ In ≤ 63 A	Nm
	Mounting		
	Mounting position		
	Connection		

① Available depending on type and characteristic curve. For 2P RCBOs A type B-C curves up to 32 A, refer to DS202C 2 protected poles RCBOs in only two modules.

② Prior to connection of aluminium conductors (≥ 4 mm^2) ensure that their contact points are cleaned, brushed and coated with grease.

RCBOs

DS 200 technical features

DS 200 AC	DS 200 A	DS 200 M AC	DS 200 M A
IEC/EN 61009-1; IEC/EN 61009-2-1; IEC/EN 60947-2			
AC	A	AC	A
2P, 3P, 4P			
0.03			
6 ≤In ≤ 63 ①			
230-240			
230/400 - 240/415			
500			
110 (170 for 30 mA) - 254			
195 (300 for 30 mA) - 440			
195 (300 for 30 mA) - 440			
50…60			
6000	6000	10000	10000
10	10	15	15
7.5	7.5	11.2	11.2
6	6	10	10
6			
2.5			
III, disconnector abilities			
■	■	■	■
■	■	■	■
	■		
NA			
black (MCB) sealable in ON-OFF position + blue (RCD)			
CPI on window			
10000			
20000			
IP4X			
IP2X			
28 cycles with 55°C/90-96% and 25°C/95-100%			
25g - 2 shocks - 13ms			
0.1 mm or 1 g - 20 cycles at 5…150…5 Hz			
30			
-25…+55			
-40…+70			
failsafe bidirectional cylinder-lift terminal (shock protected) ②			
failsafe bidirectional cylinder-lift terminal (shock protected) ②			
cage (shock protected)			
failsafe bidirectional cylinder-lift terminal (shock protected) ②			
rigid: 35/25 flexible: 25/25			
rigid: 35/25 flexible: 25/16			
rigid : 35/25 flexible : 25/25			
2.8/2.8			
2.8/1.2			
2.8/2.8			
on DIN rail EN 60715 (35 mm) by means of fast clip device			
Any			
715 (35 mm) by means of fast clip devicefrom top and bottom			

RCBOs

DS 200 technical features



DS 200

Dimensions and weight	Dimensions (H x D x W)	2P	mm
		3P In ≤ 40 A	mm
		4P In ≤ 40 A	mm
		3P 50 A ≤ In ≤ 63 A	mm
		4P 50 A ≤ In ≤ 63 A	mm
	Weight	2P	g
		3P In ≤ 40 A	g
		4P In ≤ 40 A	g
		3P 50 A ≤ In ≤ 63 A	g
		4P 50 A ≤ In ≤ 63 A	g
Combination with auxiliary elements	Combinable with:	auxiliary contact	
		signal contact/auxiliary switch	
		shunt trip	
		undervoltage release	

RCBOs

DS 200 technical features

DS 200 AC	DS 200 A	DS 200M AC	DS 200M A
85 x 69 x 70			
85 x 69 x 87.5			
85 x 69 x 105			
85 x 69 x 122.5			
85 x 69 x 140			
475			
625			
775			
775			
925			
yes			
yes			
yes			
yes			

RCBOs

DS 200 series 6000 - AC type, B characteristic



DS 202



DS 203



DS 204

DS 200 AC type, B characteristic
Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct contacts.

Application: commercial, industrial, residential.
Standard: IEC/EN 61009-1, IEC/EN 61009-2-1 and IEC/EN 60947-2
Icn = 6 kA

Number of poles	Rated residual current IΔn mA	Rated current	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
		In A	EAN	Type code	Order code		kg	pc.
2	30	6	863502	DS202 AC-B6/0.03	2CSR252001R1065		0.440	1
		10	863601	DS202 AC-B10/0.03	2CSR252001R1105		0.440	1
		13	863700	DS202 AC-B13/0.03	2CSR252001R1135		0.440	1
		16	863809	DS202 AC-B16/0.03	2CSR252001R1165		0.440	1
		20	863908	DS202 AC-B20/0.03	2CSR252001R1205		0.440	1
		25	864004	DS202 AC-B25/0.03	2CSR252001R1255		0.440	1
		32	864103	DS202 AC-B32/0.03	2CSR252001R1325		0.440	1
		40	864202	DS202 AC-B40/0.03	2CSR252001R1405		0.440	1
		50 ①	864301	DS202 AC-B50/0.03	2CSR252001R1505		0.440	1
		63 ①	864400	DS202 AC-B63/0.03	2CSR252001R1635		0.440	1

Number of poles	Rated residual current IΔn mA	Rated current	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
		In A	EAN	Type code	Order code		kg	pc.
3	30	6	865506	DS203 AC-B6/0.03	2CSR253001R1065		0.610	1
		10	865605	DS203 AC-B10/0.03	2CSR253001R1105		0.610	1
		13	865704	DS203 AC-B13/0.03	2CSR253001R1135		0.610	1
		16	865803	DS203 AC-B16/0.03	2CSR253001R1165		0.610	1
		20	865902	DS203 AC-B20/0.03	2CSR253001R1205		0.610	1
		25	866008	DS203 AC-B25/0.03	2CSR253001R1255		0.610	1
		32	866107	DS203 AC-B32/0.03	2CSR253001R1325		0.610	1
		40	866206	DS203 AC-B40/0.03	2CSR253001R1405		0.610	1
		50 ①	866305	DS203 AC-B50/0.03	2CSR253001R1505		0.650	1
		63 ①	866404	DS203 AC-B63/0.03	2CSR253001R1635		0.650	1

Number of poles	Rated residual current IΔn mA	Rated current	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
		In A	EAN	Type code	Order code		kg	pc.
4	30	6	867500	DS204 AC-B6/0.03	2CSR254001R1065		0.780	1
		10	867609	DS204 AC-B10/0.03	2CSR254001R1105		0.780	1
		13	867708	DS204 AC-B13/0.03	2CSR254001R1135		0.780	1
		16	867807	DS204 AC-B16/0.03	2CSR254001R1165		0.780	1
		20	867906	DS204 AC-B20/0.03	2CSR254001R1205		0.780	1
		25	868002	DS204 AC-B25/0.03	2CSR254001R1255		0.780	1
		32	868101	DS204 AC-B32/0.03	2CSR254001R1325		0.780	1
		40	868200	DS204 AC-B40/0.03	2CSR254001R1405		0.780	1
		50 ①	868309	DS204 AC-B50/0.03	2CSR254001R1505		0.825	1
		63 ①	868408	DS204 AC-B63/0.03	2CSR254001R1635		0.825	1

① provided with additional terminals for remote tripping.

RCBOs

DS 200 series 6000 - AC type, C characteristic



DS 202



DS 203



DS 204

DS 200 AC type, C characteristic
Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct contacts.

Application: commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1 and IEC/EN 60947-2
Icn = 6 kA

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	6	869504	DS202 AC-C6/0.03	2CSR252001R1064		0.440	1
		10	869603	DS202 AC-C10/0.03	2CSR252001R1104		0.440	1
		13	869702	DS202 AC-C13/0.03	2CSR252001R1134		0.440	1
		16	869801	DS202 AC-C16/0.03	2CSR252001R1164		0.440	1
		20	869900	DS202 AC-C20/0.03	2CSR252001R1204		0.440	1
		25	870005	DS202 AC-C25/0.03	2CSR252001R1254		0.440	1
		32	870104	DS202 AC-C32/0.03	2CSR252001R1324		0.440	1
		40	870203	DS202 AC-C40/0.03	2CSR252001R1404		0.440	1
		50 ①	870302	DS202 AC-C50/0.03	2CSR252001R1504		0.440	1
		63 ①	870401	DS202 AC-C63/0.03	2CSR252001R1634		0.440	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3	30	6	871507	DS203 AC-C6/0.03	2CSR253001R1064		0.610	1
		10	871606	DS203 AC-C10/0.03	2CSR253001R1104		0.610	1
		13	871705	DS203 AC-C13/0.03	2CSR253001R1134		0.610	1
		16	871804	DS203 AC-C16/0.03	2CSR253001R1164		0.610	1
		20	871903	DS203 AC-C20/0.03	2CSR253001R1204		0.610	1
		25	872009	DS203 AC-C25/0.03	2CSR253001R1254		0.610	1
		32	872108	DS203 AC-C32/0.03	2CSR253001R1324		0.610	1
		40	872207	DS203 AC-C40/0.03	2CSR253001R1404		0.610	1
		50 ①	872306	DS203 AC-C50/0.03	2CSR253001R1504		0.650	1
		63 ①	872405	DS203 AC-C63/0.03	2CSR253001R1634		0.650	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	6	873501	DS204 AC-C6/0.03	2CSR254001R1064		0.780	1
		10	873600	DS204 AC-C10/0.03	2CSR254001R1104		0.780	1
		13	873709	DS204 AC-C13/0.03	2CSR254001R1134		0.780	1
		16	873808	DS204 AC-C16/0.03	2CSR254001R1164		0.780	1
		20	873907	DS204 AC-C20/0.03	2CSR254001R1204		0.780	1
		25	874003	DS204 AC-C25/0.03	2CSR254001R1254		0.780	1
		32	874102	DS204 AC-C32/0.03	2CSR254001R1324		0.780	1
		40	874201	DS204 AC-C40/0.03	2CSR254001R1404		0.780	1
		50 ①	874300	DS204 AC-C50/0.03	2CSR254001R1504		0.825	1
		63 ①	874409	DS204 AC-C63/0.03	2CSR254001R1634		0.825	1

① provided with additional terminals for remote tripping.

RCBOs

DS 200 series 6000 - A type, B characteristic



DS 202



DS 203



DS 204

DS 200 A type, B characteristic
Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts.

Application: commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1 and IEC/EN 60947-2
Icn = 6 kA

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	40	858201	DS202 A-B40/0.03	2CSR252101R1405		0.440	1
		50 ①	858300	DS202 A-B50/0.03	2CSR252101R1505		0.440	1
		63 ①	858409	DS202 A-B63/0.03	2CSR252101R1635		0.440	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3	30	6	858508	DS203 A-B6/0.03	2CSR253101R1065		0.610	1
		10	858607	DS203 A-B10/0.03	2CSR253101R1105		0.610	1
		13	858706	DS203 A-B13/0.03	2CSR253101R1135		0.610	1
		16	858805	DS203 A-B16/0.03	2CSR253101R1165		0.610	1
		20	858904	DS203 A-B20/0.03	2CSR253101R1205		0.610	1
		25	859000	DS203 A-B25/0.03	2CSR253101R1255		0.610	1
		32	859109	DS203 A-B32/0.03	2CSR253101R1325		0.610	1
		40	859208	DS203 A-B40/0.03	2CSR253101R1405		0.610	1
		50 ①	859307	DS203 A-B50/0.03	2CSR253101R1505		0.650	1
		63 ①	859406	DS203 A-B63/0.03	2CSR253101R1635		0.650	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	6	859505	DS204 A-B6/0.03	2CSR254101R1065		0.780	1
		10	859604	DS204 A-B10/0.03	2CSR254101R1105		0.780	1
		13	859703	DS204 A-B13/0.03	2CSR254101R1135		0.780	1
		16	859802	DS204 A-B16/0.03	2CSR254101R1165		0.780	1
		20	859901	DS204 A-B20/0.03	2CSR254101R1205		0.780	1
		25	860006	DS204 A-B25/0.03	2CSR254101R1255		0.780	1
		32	860105	DS204 A-B32/0.03	2CSR254101R1325		0.780	1
		40	860204	DS204 A-B40/0.03	2CSR254101R1405		0.780	1
		50 ①	860303	DS204 A-B50/0.03	2CSR254101R1505		0.825	1
		63 ①	860402	DS204 A-B63/0.03	2CSR254101R1635		0.825	1

① provided with additional terminals for remote tripping.

RCBOs

DS 200 series 6000 - A type, C characteristic



DS 202



DS 203



DS 204

DS 200 A type, C characteristic
Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts.

Application: commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1 and IEC/EN 60947-2
Icn = 6 kA

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	40	861201	DS202 A-C40/0.03	2CSR252101R1404		0.440	1
		50 ①	861300	DS202 A-C50/0.03	2CSR252101R1504		0.440	1
		63 ①	861409	DS202 A-C63/0.03	2CSR252101R1634		0.440	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3	30	6	861508	DS203 A-C6/0.03	2CSR253101R1064		0.610	1
		10	861607	DS203 A-C10/0.03	2CSR253101R1104		0.610	1
		13	861706	DS203 A-C13/0.03	2CSR253101R1134		0.610	1
		16	861805	DS203 A-C16/0.03	2CSR253101R1164		0.610	1
		20	861904	DS203 A-C20/0.03	2CSR253101R1204		0.610	1
		25	862000	DS203 A-C25/0.03	2CSR253101R1254		0.610	1
		32	862109	DS203 A-C32/0.03	2CSR253101R1324		0.610	1
		40	862208	DS203 A-C40/0.03	2CSR253101R1404		0.610	1
		50 ①	862307	DS203 A-C50/0.03	2CSR253101R1504		0.650	1
		63 ①	862406	DS203 A-C63/0.03	2CSR253101R1634		0.650	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	6	862505	DS204 A-C6/0.03	2CSR254101R1064		0.780	1
		10	862604	DS204 A-C10/0.03	2CSR254101R1104		0.780	1
		13	862703	DS204 A-C13/0.03	2CSR254101R1134		0.780	1
		16	862802	DS204 A-C16/0.03	2CSR254101R1164		0.780	1
		20	862901	DS204 A-C20/0.03	2CSR254101R1204		0.780	1
		25	863007	DS204 A-C25/0.03	2CSR254101R1254		0.780	1
		32	863106	DS204 A-C32/0.03	2CSR254101R1324		0.780	1
		40	863205	DS204 A-C40/0.03	2CSR254101R1404		0.780	1
		50 ①	863304	DS204 A-C50/0.03	2CSR254101R1504		0.825	1
		63 ①	863403	DS204 A-C63/0.03	2CSR254101R1634		0.825	1

① provided with additional terminals for remote tripping.

RCBOs

DS 200 series 6000 - A type, K characteristic



DS 202

DS 200 A type, K characteristic
Function: protection and control against overloads and short-circuit in systems where motors, transformers and auxiliary circuits are present. Advantages: no unwanted release in case of currents peak up to 8 x In, according to the series; thanks to the high sensibility bimetal, the K curve switches offer protection of the sensible elements from overcurrents; they also allow the best protection of cables and lines.

Application: commercial, industrial.
Standard: IEC/EN 60947-2
Icn = 6 kA



DS 203

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	6	930303	DS202 A-K6/0.03	2CSR252101R1067		0.475	1
		10	900702	DS202 A-K10/0.03	2CSR252101R1107		0.475	1
		13	930402	DS202 A-K13/0.03	2CSR252101R1137		0.475	1
		16	930501	DS202 A-K16/0.03	2CSR252101R1167		0.475	1
		20	930600	DS202 A-K20/0.03	2CSR252101R1207		0.475	1
		25	930709	DS202 A-K25/0.03	2CSR252101R1257		0.475	1
		32	930808	DS202 A-K32/0.03	2CSR252101R1327		0.475	1
		40	930907	DS202 A-K40/0.03	2CSR252101R1407		0.475	1
		50 ①	931003	DS202 A-K50/0.03	2CSR252101R1507		0.475	1
		63 ①	931102	DS202 A-K63/0.03	2CSR252101R1637		0.475	1



DS 204

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	6	931201	DS204 A-K6/0.03	2CSR254101R1067		0.775	1
		10	931300	DS204 A-K10/0.03	2CSR254101R1107		0.775	1
		13	931409	DS204 A-K13/0.03	2CSR254101R1137		0.775	1
		16	931508	DS204 A-K16/0.03	2CSR254101R1167		0.775	1
		20	931607	DS204 A-K20/0.03	2CSR254101R1207		0.775	1
		25	931706	DS204 A-K25/0.03	2CSR254101R1257		0.775	1
		32	931805	DS204 A-K32/0.03	2CSR254101R1327		0.775	1
		40	931904	DS204 A-K40/0.03	2CSR254101R1407		0.775	1
		50 ①	932000	DS204 A-K50/0.03	2CSR254101R1507		0.775	1
		63 ①	932109	DS204 A-K63/0.03	2CSR254101R1637		0.775	1

① provided with additional terminals for remote tripping.

RCBOs

DS 200 M series 10000 - AC type, B characteristic



DS 202



DS 203



DS 204

DS 200 M AC type, B characteristic
Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct contacts.

Application: commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 10 kA

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	6	932208	DS202 M AC-B6/0.03	2CSR272001R1065		0.440	1
		10	932307	DS202 M AC-B10/0.03	2CSR272001R1105		0.440	1
		13	932406	DS202 M AC-B13/0.03	2CSR272001R1135		0.440	1
		16	932505	DS202 M AC-B16/0.03	2CSR272001R1165		0.440	1
		20	932604	DS202 M AC-B20/0.03	2CSR272001R1205		0.440	1
		25	932703	DS202 M AC-B25/0.03	2CSR272001R1255		0.440	1
		32	932802	DS202 M AC-B32/0.03	2CSR272001R1325		0.440	1
		40	932901	DS202 M AC-B40/0.03	2CSR272001R1405		0.440	1
		50 ①	933007	DS202 M AC-B50/0.03	2CSR272001R1505		0.440	1
		63 ①	933106	DS202 M AC-B63/0.03	2CSR272001R1635		0.440	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3	30	6	933205	DS203 M AC-B6/0.03	2CSR273001R1065		0.610	1
		10	933304	DS203 M AC-B10/0.03	2CSR273001R1105		0.610	1
		13	933403	DS203 M AC-B13/0.03	2CSR273001R1135		0.610	1
		16	933502	DS203 M AC-B16/0.03	2CSR273001R1165		0.610	1
		20	933601	DS203 M AC-B20/0.03	2CSR273001R1205		0.610	1
		25	933700	DS203 M AC-B25/0.03	2CSR273001R1255		0.610	1
		32	933809	DS203 M AC-B32/0.03	2CSR273001R1325		0.610	1
		40	933908	DS203 M AC-B40/0.03	2CSR273001R1405		0.610	1
		50 ①	934004	DS203 M AC-B50/0.03	2CSR273001R1505		0.650	1
		63 ①	934103	DS203 M AC-B63/0.03	2CSR273001R1635		0.650	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	6	934202	DS204 M AC-B6/0.03	2CSR274001R1065		0.780	1
		10	934301	DS204 M AC-B10/0.03	2CSR274001R1105		0.780	1
		13	934400	DS204 M AC-B13/0.03	2CSR274001R1135		0.780	1
		16	934509	DS204 M AC-B16/0.03	2CSR274001R1165		0.780	1
		20	934608	DS204 M AC-B20/0.03	2CSR274001R1205		0.780	1
		25	934707	DS204 M AC-B25/0.03	2CSR274001R1255		0.780	1
		32	934806	DS204 M AC-B32/0.03	2CSR274001R1325		0.780	1
		40	934905	DS204 M AC-B40/0.03	2CSR274001R1405		0.780	1
		50 ①	935001	DS204 M AC-B50/0.03	2CSR274001R1505		0.825	1
		63 ①	935100	DS204 M AC-B63/0.03	2CSR274001R1635		0.825	1

① provided with additional terminals for remote tripping.

RCBOs

DS 200 M series 10000 - AC ~ type, C characteristic



DS 202



DS 203



DS 204

DS 200 M AC type, C characteristic
Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct contacts.

Application: commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 10 kA

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	6	851509	DS202 M AC-C6/0.03	2CSR272001R1064		0.440	1
		10	851608	DS202 M AC-C10/0.03	2CSR272001R1104		0.440	1
		13	851707	DS202 M AC-C13/0.03	2CSR272001R1134		0.440	1
		16	851806	DS202 M AC-C16/0.03	2CSR272001R1164		0.440	1
		20	851905	DS202 M AC-C20/0.03	2CSR272001R1204		0.440	1
		25	852001	DS202 M AC-C25/0.03	2CSR272001R1254		0.440	1
		32	852100	DS202 M AC-C32/0.03	2CSR272001R1324		0.440	1
		40	852209	DS202 M AC-C40/0.03	2CSR272001R1404		0.440	1
		50 ①	852308	DS202 M AC-C50/0.03	2CSR272001R1504		0.440	1
		63 ①	852407	DS202 M AC-C63/0.03	2CSR272001R1634		0.440	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3	30	6	852506	DS203 M AC-C6/0.03	2CSR273001R1064		0.610	1
		10	852605	DS203 M AC-C10/0.03	2CSR273001R1104		0.610	1
		13	852704	DS203 M AC-C13/0.03	2CSR273001R1134		0.610	1
		16	852803	DS203 M AC-C16/0.03	2CSR273001R1164		0.610	1
		20	852902	DS203 M AC-C20/0.03	2CSR273001R1204		0.610	1
		25	853008	DS203 M AC-C25/0.03	2CSR273001R1254		0.610	1
		32	853107	DS203 M AC-C32/0.03	2CSR273001R1324		0.610	1
		40	853206	DS203 M AC-C40/0.03	2CSR273001R1404		0.610	1
		50 ①	853305	DS203 M AC-C50/0.03	2CSR273001R1504		0.650	1
		63 ①	853404	DS203 M AC-C63/0.03	2CSR273001R1634		0.650	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	6	853503	DS204 M AC-C6/0.03	2CSR274001R1064		0.780	1
		10	853602	DS204 M AC-C10/0.03	2CSR274001R1104		0.780	1
		13	853701	DS204 M AC-C13/0.03	2CSR274001R1134		0.780	1
		16	853800	DS204 M AC-C16/0.03	2CSR274001R1164		0.780	1
		20	853909	DS204 M AC-C20/0.03	2CSR274001R1204		0.780	1
		25	854005	DS204 M AC-C25/0.03	2CSR274001R1254		0.780	1
		32	854104	DS204 M AC-C32/0.03	2CSR274001R1324		0.780	1
		40	854203	DS204 M AC-C40/0.03	2CSR274001R1404		0.780	1
		50 ①	854302	DS204 M AC-C50/0.03	2CSR274001R1504		0.825	1
		63 ①	854401	DS204 M AC-C63/0.03	2CSR274001R1634		0.825	1

① provided with additional terminals for remote tripping.

RCBOs

DS 200 M series 10000 - A type, B characteristic



DS 202



DS 203



DS 204

DS 200 M A type, B characteristic
Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts.

Application: commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 10 kA

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	40	846208	DS202 M A-B40/0.03	2CSR272101R1405		0.440	1
		50 ①	846307	DS202 M A-B50/0.03	2CSR272101R1505		0.440	1
		63 ①	846406	DS202 M A-B63/0.03	2CSR272101R1635		0.440	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3	30	6	846505	DS203 M A-B6/0.03	2CSR273101R1065		0.610	1
		10	846604	DS203 M A-B10/0.03	2CSR273101R1105		0.610	1
		13	846703	DS203 M A-B13/0.03	2CSR273101R1135		0.610	1
		16	846802	DS203 M A-B16/0.03	2CSR273101R1165		0.610	1
		20	846901	DS203 M A-B20/0.03	2CSR273101R1205		0.610	1
		25	847007	DS203 M A-B25/0.03	2CSR273101R1255		0.610	1
		32	847106	DS203 M A-B32/0.03	2CSR273101R1325		0.610	1
		40	847205	DS203 M A-B40/0.03	2CSR273101R1405		0.610	1
		50 ①	847304	DS203 M A-B50/0.03	2CSR273101R1505		0.650	1
		63 ①	847403	DS203 M A-B63/0.03	2CSR273101R1635		0.650	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	6	847502	DS204 M A-B6/0.03	2CSR274101R1065		0.780	1
		10	847601	DS204 M A-B10/0.03	2CSR274101R1105		0.780	1
		13	847700	DS204 M A-B13/0.03	2CSR274101R1135		0.780	1
		16	847809	DS204 M A-B16/0.03	2CSR274101R1165		0.780	1
		20	847908	DS204 M A-B20/0.03	2CSR274101R1205		0.780	1
		25	848004	DS204 M A-B25/0.03	2CSR274101R1255		0.780	1
		32	848103	DS204 M A-B32/0.03	2CSR274101R1325		0.780	1
		40	848202	DS204 M A-B40/0.03	2CSR274101R1405		0.780	1
		50 ①	848301	DS204 M A-B50/0.03	2CSR274101R1505		0.825	1
		63 ①	848400	DS204 M A-B63/0.03	2CSR274101R1635		0.825	1

① provided with additional terminals for remote tripping.

RCBOs

DS 200 M series 10000 - A type, C characteristic



DS 202



DS 203

DS 200 M A type, C characteristic
Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct contacts.

Application: commercial, industrial.
Standard: IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 10 kA

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	40	849209	DS202 M A-C40/0.03	2CSR272101R1404		0.440	1
		50 ①	849308	DS202 M A-C50/0.03	2CSR272101R1504		0.440	1
		63 ①	849407	DS202 M A-C63/0.03	2CSR272101R1634		0.440	1

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3	30	6	849506	DS203 M A-C6/0.03	2CSR273101R1064		0.610	1
		10	849605	DS203 M A-C10/0.03	2CSR273101R1104		0.610	1
		13	849704	DS203 M A-C13/0.03	2CSR273101R1134		0.610	1
		16	849803	DS203 M A-C16/0.03	2CSR273101R1164		0.610	1
		20	849902	DS203 M A-C20/0.03	2CSR273101R1204		0.610	1
		25	850007	DS203 M A-C25/0.03	2CSR273101R1254		0.610	1
		32	850106	DS203 M A-C32/0.03	2CSR273101R1324		0.610	1
		40	850205	DS203 M A-C40/0.03	2CSR273101R1404		0.610	1
		50 ①	850304	DS203 M A-C50/0.03	2CSR273101R1504		0.650	1
		63 ①	850403	DS203 M A-C63/0.03	2CSR273101R1634		0.650	1

① provided with additional terminals for remote tripping.

RCBOs

DS 200 M series 10000 - A type, C characteristic



DS 204

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	6	850502	DS204 M A-C6/0.03	2CSR274101R1064		0.780	1
		10	850601	DS204 M A-C10/0.03	2CSR274101R1104		0.780	1
		13	850700	DS204 M A-C13/0.03	2CSR274101R1134		0.780	1
		16	850809	DS204 M A-C16/0.03	2CSR274101R1164		0.780	1
		20	850908	DS204 M A-C20/0.03	2CSR274101R1204		0.780	1
		25	851004	DS204 M A-C25/0.03	2CSR274101R1254		0.780	1
		32	851103	DS204 M A-C32/0.03	2CSR274101R1324		0.780	1
		40	851202	DS204 M A-C40/0.03	2CSR274101R1404		0.780	1
		50 ①	851301	DS204 M A-C50/0.03	2CSR274101R1504		0.825	1
		63 ①	851400	DS204 M A-C63/0.03	2CSR274101R1634		0.825	1

① provided with additional terminals for remote tripping.

RCBOs

DS800 technical features



DS800S

	Standards		
Electrical features	Operating characteristic: type (wave form of the earth leakage sensed)		
	Poles		
	Rated sensitivity IΔn		A
	Rated current In		A
	Rated voltage Ue		V
	Insulation voltage Ui		V
	Operating voltage of circuit test Ut		V
	Rated frequency		Hz
	Rated ultimate short-circuit breaking capacity Icu	240/415 V AC	kA
		254/440 V AC	kA
		289/500 V AC	kA
		400/690 V AC	kA
	Rated service short-circuit breaking capacity Ics	240/415 V AC	kA
		254/440 V AC	kA
		289/500 V AC	kA
		400/690 V AC	kA
	Rated impulse withstand voltage (1.2/50) Uimp		kV
	Dielectric test voltage at ind. freq. for 1 min.		kV
	Thermomagnetic release characteristic	B: 3 In ≤ Im ≤ 5 In	
		C: 5 In ≤ Im ≤ 10 In	
		D**: 10 In ≤ Im ≤ 20 In	
		K**: 8 In ≤ Im ≤ 14 In	
	Surge current resistance acc. to VDE 0432 Part 2 (wave 8/20)		A
Mechanical features	Toggle		
	Electrical life		
	Mechanical life		
	Protection degree	housing	
		terminals	
	Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C/RH
	Ambient temperature (with daily average ≤ + 35 °C)		°C
	Storage temperature		°C
Installation	Terminal size for cables	flexible	mm^2
		rigid	mm^2
	Tightening torque		Nm
	Mounting		
Dimensions and weight	Dimensions (H x D x W)	2P	mm
		3P	mm
		4P	mm
	Weight	2P	g
		3P	g
		4P	g
Combination with auxiliary elements	Combinable with:	auxiliary contact	
		signal contact/auxiliary switch	
		shunt trip	
		undervoltage release	

* 1A on 2P and 4P versions, while 0.3A only on 4P ones.
** as specified in standard IEC/EN 60947-2 the device withstands Im ≤ 6 In with guaranteed non intervention.

RCBOs

DS800 technical features

DS800S A	DS800N A	DS800S A S	DS800N A S	DS800S A AP-R	DS800N A AP-R
IEC/EN 60947-2					
A		A		A	
2P, 3P, 4P		2P,4P		2P, 3P, 4P	
0.3		0.3-1(*)		0.03	
125					
230/400-240/415-400/690					
690					
195-690					
50…60					
50	36	50	36	50	36
30	20	30	20	30	20
10	10	10	10	10	10
4.5	4.5	4.5	4.5	4.5	4.5
40	30	40	30	40	30
15	10	15	10	15	10
5	5	5	5	5	5
3	3	3	3	3	3
6					
2.5					
■	■	■	■	■	■
■	■	■	■	■	■
■	■	■	■	■	■
■		■		■	
NA	NA	5000	5000	3000	3000
black (MCB) sealable in ON-OFF position + blue (RCD) operating just from OFF position					
10000					
20000					
IP4X					
IP2X					
28 cycles with 55°C/90-96% and 25°C/95-100%					
-25…+60					
-40…+70					
6…50					
6…70					
min. 3 / max. 4					
on DIN rail EN 60715 (35 mm) by means of rapid fixing device					
108,2 x 82,3 x 133.5					
108,2 x 82,3 x 196					
108,2 x 82,3 x 223					
790					
1140					
1440					
yes					
yes					
yes					
yes					

RCBOs

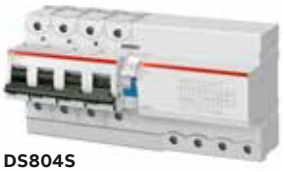
DS800S series 50000 A type B, C, D and K characteristic



DS802S



DS803S



DS804S

DS800S, A type
Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts; command and isolation of resistive and inductive loads.

Application: industrial.
Standard: IEC/EN 60947-2
Icu = 50 kA

Number of poles	Curve	Rated residual current IΔn mA	Rated current In A	Bbn 7612271 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	B	300	125	211721	DS802S-B125/0.3A	2CCA862005R0845		0.790	1
	C	300	125	211738	DS802S-C125/0.3A	2CCA862005R0844		0.790	1
	D	300	125	211745	DS802S-D125/0.3A	2CCA862005R0841		0.790	1
	K	300	125	211752	DS802S-K125/0.3A	2CCA862005R0647		0.790	1

Number of poles	Curve	Rated residual current IΔn mA	Rated current In A	Bbn 7612271 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3	B	300	125	211769	DS803S-B125/0.3A	2CCA863005R0845		1.14	1
	C	300	125	211776	DS803S-C125/0.3A	2CCA863005R0844		1.14	1
	D	300	125	211783	DS803S-D125/0.3A	2CCA863005R0841		1.14	1
	K	300	125	211790	DS803S-K125/0.3A	2CCA863005R0647		1.14	1

Number of poles	Curve	Rated residual current IΔn mA	Rated current In A	Bbn 7612271 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	B	300	125	211806	DS804S-B125/0.3A	2CCA864005R0845		1.44	1
	C	300	125	211813	DS804S-C125/0.3A	2CCA864005R0844		1.44	1
	D	300	125	211820	DS804S-D125/0.3A	2CCA864005R0841		1.44	1
	K	300	125	211837	DS804S-K125/0.3A	2CCA864005R0647		1.44	1

RCBOs

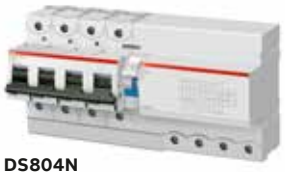
DS800N series 36000 A type B, C and D characteristics



DS802N



DS803N



DS804N

DS800N, A type
Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts; command and isolation of resistive and inductive loads.

Application: industrial.
Standard: IEC/EN 60947-2
Icu = 36 kA

Number of poles	Curve	Rated residual current IΔn mA	Rated current In A	Bbn 7612271 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	B	300	125	211844	DS802N-B125/0.3A	2CCA892005R0845		0.790	1
	C	300	125	211851	DS802N-C125/0.3A	2CCA892005R0844		0.790	1
	D	300	125	211868	DS802N-D125/0.3A	2CCA892005R0841		0.790	1

Number of poles	Curve	Rated residual current IΔn mA	Rated current In A	Bbn 7612271 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3	B	300	125	211875	DS803N-B125/0.3A	2CCA893005R0845		1.14	1
	C	300	125	211882	DS803N-C125/0.3A	2CCA893005R0844		1.14	1
	D	300	125	211899	DS803N-D125/0.3A	2CCA893005R0841		1.14	1

Number of poles	Curve	Rated residual current IΔn mA	Rated current In A	Bbn 7612271 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	B	300	125	211905	DS804N-B125/0.3A	2CCA894005R0845		1.44	1
	C	300	125	211912	DS804N-C125/0.3A	2CCA894005R0844		1.44	1
	D	300	125	211929	DS804N-D125/0.3A	2CCA894005R0841		1.44	1

RCBOs

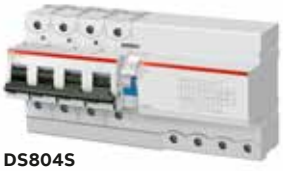
DS800S series 50000 A type selective B, C, D and K characteristics



DS802S



DS803S



DS804S

DS800S, A selective type

Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents with an intentional tripping delay, which allows to realize the selectivity with downstream instantaneous devices (for more information about selectivity see the technical guide); protection against indirect contacts; command and isolation of resistive and inductive loads.

Application: industrial.
Standard: IEC/EN 60947-2
Icu = 50 kA

Number of poles	Curve	Rated residual current IΔn mA	Rated current In A	Bbn 7612271 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	B	1000	125	211516	DS802S-B125/1AS	2CCC862006R0845		0.790	1
	C	1000	125	211523	DS802S-C125/1AS	2CCC862006R0844		0.790	1
	D	1000	125	211530	DS802S-D125/1AS	2CCC862006R0841		0.790	1
	K	1000	125	211547	DS802S-K125/1AS	2CCC862006R0647		0.790	1

Number of poles	Curve	Rated residual current IΔn mA	Rated current In A	Bbn 7612271 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	B	300	125	211554	DS804S-B125/0.3AS	2CCC864005R0845		1.44	1
		1000	125	211592	DS804S-B125/1AS	2CCC864006R0845		1.44	1
	C	300	125	211561	DS804S-C125/0.3AS	2CCC864005R0844		1.44	1
		1000	125	211608	DS804S-C125/1AS	2CCC864006R0844		1.44	1
	D	300	125	211578	DS804S-D125/0.3AS	2CCC864005R0841		1.44	1
		1000	125	211615	DS804S-D125/1AS	2CCC864006R0841		1.44	1
	K	300	125	211685	DS804S-K125/0.3AS	2CCC864005R0647		1.44	1
		1000	125	211622	DS804S-K125/1AS	2CCC864006R0647		1:44	1

RCBOs

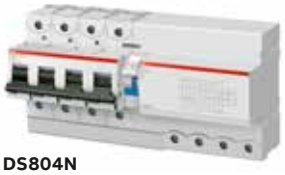
DS800N series 36000 A type selective B, C and D characteristics



DS802N



DS803N



DS804N

DS800N, A selective type
Function: protection against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents with an intentional tripping delay, which allows to realize the selectivity with downstream instantaneous devices (for more information about selectivity see the technical guide); protection against indirect contacts; command and isolation of resistive and inductive loads.

Application: industrial.
Standard: IEC/EN 60947-2
Icu = 36 kA

Number of poles	Curve	Rated residual current IΔn mA	Rated current In A	Bbn 7612271 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	B	1000	125	211639	DS802N-B125/1AS	2CCC892006R0845		0.790	1
	C	1000	125	211646	DS802N-C125/1AS	2CCC892006R0844		0.790	1
	D	1000	125	211653	DS802N-D125/1AS	2CCC892006R0841		0.790	1

Number of poles	Curve	Rated residual current IΔn mA	Rated current In A	Bbn 7612271 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	B	300	125	211660	DS804N-B125/0.3AS	2CCC894005R0845		1.44	1
		1000	125	211691	DS804N-B125/1AS	2CCC894006R0845		1.44	1
	C	300	125	211677	DS804N-C125/0.3AS	2CCC894005R0844		1.44	1
		1000	125	211707	DS804N-C125/1AS	2CCC894006R0844		1.44	1
	D	300	125	211684	DS804N-D125/0.3AS	2CCC894005R0841		1.44	1
		1000	125	211714	DS804N-D125/1AS	2CCC894006R0841		1.44	1

RCBOs

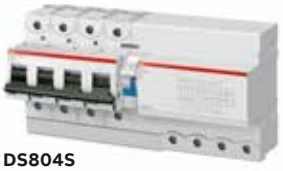
DS800S series 50000 A type, AP-R (high immunity) B, C, D and K characteristics



DS802S



DS803S



DS804S

DS800S AP-R, A type
Function: protection against the effects of sinusoidal alternating earth fault currents, providing the best compromise between safety and continuity in the service thanks to the resistance to unwanted trippings; protection against indirect contacts and additional protection against direct contacts (IΔn=30 mA); protection and isolation of resistive and inductive loads.

Application: industrial.
Standard: IEC/EN 60947-2
Icu = 50 kA

Number of poles	Curve	Rated residual current IΔn mA	Rated current In A	Bbn 7612271 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	B	30	125	211301	DS802SB125 /.03AP-R	2CCB862004R0845		0.790	1
	C	30	125	211318	DS802SC125 /.03AP-R	2CCB862004R0844		0.790	1
	D	30	125	211325	DS802SD125 /.03AP-R	2CCB862004R0841		0.790	1
	K	30	125	211332	DS802SK125 /.03AP-R	2CCB862004R0647		0.790	1

Number of poles	Curve	Rated residual current IΔn mA	Rated current In A	Bbn 7612271 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3	B	30	125	211349	DS803SB125 /.03AP-R	2CCB863004R0845		1.14	1
	C	30	125	211356	DS803SC125 /.03AP-R	2CCB863004R0844		1.14	1
	D	30	125	211363	DS803SD125 /.03AP-R	2CCB863004R0841		1.14	1
	K	30	125	211370	DS803SK125 /.03AP-R	2CCB863004R0647		1.14	1

Number of poles	Curve	Rated residual current IΔn mA	Rated current In A	Bbn 7612271 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	B	30	125	211387	DS804SB125 /.03AP-R	2CCB864004R0845		1.44	1
	C	30	125	211394	DS804SC125 /.03AP-R	2CCB864004R0844		1.44	1
	D	30	125	211400	DS804SD125 /.03AP-R	2CCB864004R0841		1.44	1
	K	30	125	211417	DS804SK125 /.03AP-R	2CCB864004R0647		1,44	1

RCBOs

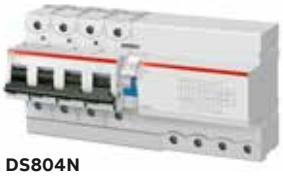
DS800N series 36000 A type, AP-R (high immunity) B, C and D characteristics



DS802N



DS803N



DS804N

DS800N AP-R, A type
Function: protection against the effects of sinusoidal alternating earth fault currents, providing the best compromise between safety and continuity in the service thanks to the resistance to unwanted trippings; protection against indirect contacts and additional protection against direct contacts (IΔn=30 mA); protection and isolation of resistive and inductive loads.

Application: industrial.
Standard: IEC/EN 60947-2
Icu = 36 kA

Number of poles	Curve	Rated residual current IΔn mA	Rated current In A	Bbn 7612271 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	B	30	125	211424	DS802NB125 /.03AP-R	2CCB892004R0845		0.790	1
	C	30	125	211431	DS802NC125 /.03AP-R	2CCB892004R0844		0.790	1
	D	30	125	211448	DS802ND125 /.03AP-R	2CCB892004R0841		0.790	1

Number of poles	Curve	Rated residual current IΔn mA	Rated current In A	Bbn 7612271 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
3	B	30	125	211455	DS803NB125 /.03AP-R	2CCB893004R0845		1.14	1
	C	30	125	211462	DS803NC125 /.03AP-R	2CCB893004R0844		1.14	1
	D	30	125	211479	DS803ND125 /.03AP-R	2CCB893004R0841		1.14	1

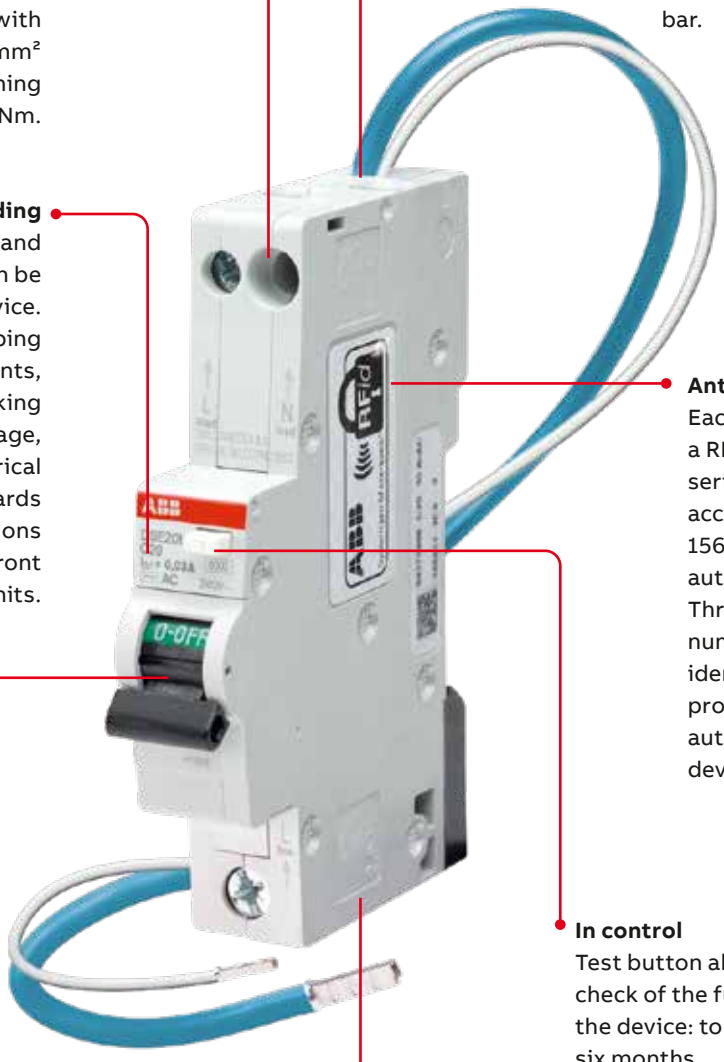
Number of poles	Curve	Rated residual current IΔn mA	Rated current In A	Bbn 7612271 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	B	30	125	211486	DS804NB125 /.03AP-R	2CCB894004R0845		1.44	1
	C	30	125	211493	DS804NC125 /.03AP-R	2CCB894004R0844		1.44	1
	D	30	125	211509	DS804ND125 /.03AP-R	2CCB894004R0841		1.44	1

eRCBO, the value of quality
Made with attention to details

Space for insulated screwdrivers
The larger neutral hole allows the use of an insulated screwdriver to tighten the screw of neutral terminals, ensuring maximum operation safety. All versions are equipped with cage type terminals (16mm² load side), with tightening torque of 1.2 Nm.

Product coding
All the necessary technical and installation information can be found directly on the device. Product range, tripping characteristics, rated currents, sensitivity, type, breaking capacity, rated voltage, order code, EAN code, electrical scheme, reference standards and many other specifications are laser printed on the front and side of units.

Real contact position indicator on toggle
Directly connected to the moving contact of the device, it indicates the exact position of the contacts at all times (red: closed contacts, green: open contacts).



Easy to install
Fast installation is supported by the two flying leads for neutral cable and functional earth, each integrated in the device, which can be directly connected to the main neutral bar and main earth bar.

Anti counterfeiting
Each DSE201 is equipped with a RFID tag containing a unique serial number assigned by ABB according to ISO/IEC FCD 15693-3 standard in order to authenticate the product. Through this unique serial number, ABB can easily identify counterfeited products and verify the authenticity of each single device.

In control
Test button allows the regular check of the functionality of the device: to be pushed every six months.

Reduced height
Thanks to its reduced height, only 100 mm, DSE201 makes easier wiring operation inside the consumer unit or the distribution board.

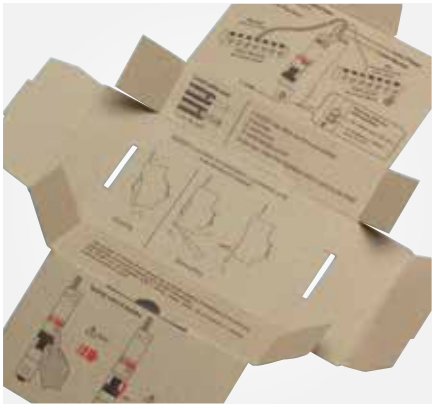
With its breaking capacity of 6kA in only one module width and 100mm height, the DSE201 series is the perfect solution for a complete protection in residential and light commercial applications. At home, in the office or in a shop, these devices are essential for the safety of people, utilities and equipment, protecting not only against earth fault residual currents - due to loss of isolation or accidental contact with live parts - but also against overcurrents.



Double slot terminal
On the line side, the availability of a terminal with two slots allows to use different types of conductors: one housing is designed for cables up to 25 mm², the other for busbars or cables up to 10 mm².



Easy and flexible
The double clip eases dismounting even when the unit is installed in a high density system. A single device can be removed from the cluster without disconnecting other units. The same screwdriver used to tighten terminals can also be used to unlock the DIN rail fixing device of the unit.



Environmentally friendly
The user manual is an integral part of the package. The information have been printed inside the box to make easy the reading and to reduce consumption of paper.

DSE201

Technical features and overall dimensions

Electrical features			
Standards			IEC 61009-1; IEC 61009-2-2; AS/NZS 61009
Type (wave form of the earth leakage sensed)			AC, A
Number of poles			1P+N
Rated current I_n		A	6≤ In ≤ 50
Rated sensitivity $I_{\Delta n}$		mA	30
Rated voltage U_e		V	230-240
Insulation voltage U_i		V	500 V AC
Overvoltage category			III
Pollution degree			2
Max. operating voltage		V	264
Min. operating voltage for protection against IΔn residual sinusoidal alternating currents		V	85
Operating voltage of circuit test		V	195 - 264
Rated frequency		Hz	50/60
Rated breaking capacity acc. to IEC 61009	ultimate I_{cn}	A	6000
Rated residual breaking capacity $I_{\Delta m}$		kA	6
Rated impulse withstand voltage (1.2/50) U_{imp}		kV	4 kV (test voltage 6.2kV at sea level, 5kV at 2000m)
Dielectric test voltage at ind. freq. for 1 min.		kV	2.5 kV (50 / 60Hz, 1 min.)
Thermomagnetic release - characteristic	B: 3 $I_n \le I_m \le 5\ I_n$		■
	C: 5 $I_n \le I_m \le 10\ I_n$		■
Mechanical data			
Housing			insulation group II, RAL 7035
Toggle			insulation group IIIA, black, sealable in ON-OFF positions
Contact position indication			CPI on toggle (I ON / 0 OFF)
Electrical life		operations	10000
Mechanical life		operations	20000
Protection degree	housing		IP4X
	terminals		IP2X
Shock resistance acc. to IEC/EN 60068-2-27			30g - 2 shocks - 13ms
Vibration resistance acc. to IEC/EN 60068-2-6			0.35mm or 5g - 20 cycles at 5...150...5 Hz without load
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C/RH	28 cycles with 55°C/90-96% and 25°C/95-100%
Reference temperature for setting of thermal element		°C	30
Ambient temperature (with daily average ≤ +35 °C)		°C	-25...+55
Storage temperature		°C	-40...+70

DSE201

Technical features and overall dimensions

Installation			
Terminal type	top (load side)		failsafe cage (shock protected)
	bottom (line side)		failsafe bi-directional cylinder-lift terminal (shock protected)
Terminal size for cables	load side (top)	mm^2	16
	line side (bottom)	mm^2	25
Terminal size for busbars	load side (top)		only for wire connection
	line side (bottom)	mm^2	10 (Standard ABB busbar / distribution board system)
Tightening torque	top (load side)	Nm	1.2
	bottom (line side)	Nm	2.8
Stripping length of the cable	top (load side)	mm	11
	bottom (line side)	mm	12.5
Neutral load cable	Type		low smoke halogen free
	Lenght	mm	750
	Section	mm^2	2.5 mm^2 up to 20 A; 4 mm^2 up to 50 A
	Color		blue (available also black)
Functional earth cable	Type		low smoke halogen free
	Lenght	mm	750
	Section	mm^2	0.75
	Color		white
Mounting			on DIN rail EN 60715 (35 mm) by means of fast clip device in consumer unit Type A according to IEC 61439-1&3, BS EN 61439-1&3, in distribution board Type B according to IEC 61439-1&3, BS EN 61439-1&3.
Supply from			bottom terminal
Dimensions and weight			
Dimensions (H x D x W)		mm	100 x 68.9 x 17.6
Weight		g	180
Combination with auxiliary elements			
Combinable with accessories and auxiliaries	no		

eRCBOs

DSE201 series 6000 A type, B and C characteristic



DSE201 ... A30

DSE201 A type, B and C characteristic
Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn = 30 mA). The neutral is unswitched. Voltage dependent RCBO.

Application: residential, light commercial
Standard: AS/NZS 61009.1; IEC 61009-2-2; AS/NZS 61009.1
Icn = 6 000 A

N. of poles	Rated residual current IΔn	Rated Current	Bbn 8012542 EAN		Order details	Weight 1 piece [kg]	Pack unit pc.
	[mA]	In [A]		Type code	Order code		
B characteristic							
1P+N	30	6	399629	DSE201 B6 A30	2CSR255151R1065	0.180	1
		10	399728	DSE201 B10 A30	2CSR255151R1105	0.180	1
		16	658924	DSE201 B16 A30	2CSR255151R1165	0.180	1
		20	658429	DSE201 B20 A30	2CSR255151R1205	0.180	1
		25	659921	DSE201 B25 A30	2CSR255151R1255	0.180	1
		32	659426	DSE201 B32 A30	2CSR255151R1325	0.180	1
		40	658627	DSE201 B40 A30	2CSR255151R1405	0.180	1
		50	179337	DSE201 B50 A30	2CSR255151R1505	0.200	1
C characteristic							
1P+N	30	6	658122	DSE201 C6 A30	2CSR255151R1064	0.180	1
		10	659624	DSE201 C10 A30	2CSR255151R1104	0.180	1
		16	910923	DSE201 C16 A30	2CSR255151R1164	0.180	1
		20	659129	DSE201 C20 A30	2CSR255151R1204	0.180	1
		25	658726	DSE201 C25 A30	2CSR255151R1254	0.180	1
		32	658221	DSE201 C32 A30	2CSR255151R1324	0.180	1
		40	659723	DSE201 C40 A30	2CSR255151R1404	0.180	1
		50	349532	DSE201 C50 A30	2CSR255151R1504	0.200	1

eRCBOs

DSE201 series 6000 AC type, B and C characteristic



DSE201 ... A30

DSE201 AC type, B and C characteristic
Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn = 30 mA). The neutral is unswitched. Voltage dependent RCBO.

Application: residential, light commercial
Standard: AS/NZS 61009.1; IEC 61009-2-2; AS/NZS 61009.1
Icn = 6 000 A

N. of poles	Rated residual current IΔn	Rated Current	Bbn 8012542 EAN		Order details	Weight 1 piece [kg]	Pack unit pc.
	[mA]	In [A]		Type code	Order code		
B characteristic							
1P+N	30	6	659228	DSE201 B6 AC30	2CSR255051R1065	0.180	1
		10	658825	DSE201 B10 AC30	2CSR255051R1105	0.180	1
		16	658320	DSE201 B16 AC30	2CSR255051R1165	0.180	1
		20	659822	DSE201 B20 AC30	2CSR255051R1205	0.180	1
		25	659327	DSE201 B25 AC30	2CSR255051R1255	0.180	1
		32	658528	DSE201 B32 AC30	2CSR255051R1325	0.180	1
		40	658023	DSE201 B40 AC30	2CSR255051R1405	0.180	1
		50	179238	DSE201 B50 AC30	2CSR255051R1505	0.200	1
C characteristic							
1P+N	30	6	659525	DSE201 C6 AC30	2CSR255051R1064	0.180	1
		10	910824	DSE201 C10 AC30	2CSR255051R1104	0.180	1
		16	659020	DSE201 C16 AC30	2CSR255051R1164	0.180	1
		20	660125	DSE201 C20 AC30	2CSR255051R1204	0.180	1
		25	660521	DSE201 C25 AC30	2CSR255051R1254	0.180	1
		32	660026	DSE201 C32 AC30	2CSR255051R1324	0.180	1
		40	660422	DSE201 C40 AC30	2CSR255051R1404	0.180	1
		50	349433	DSE201 C50 AC30	2CSR255051R1504	0.200	1

DSE201 M, unique solution

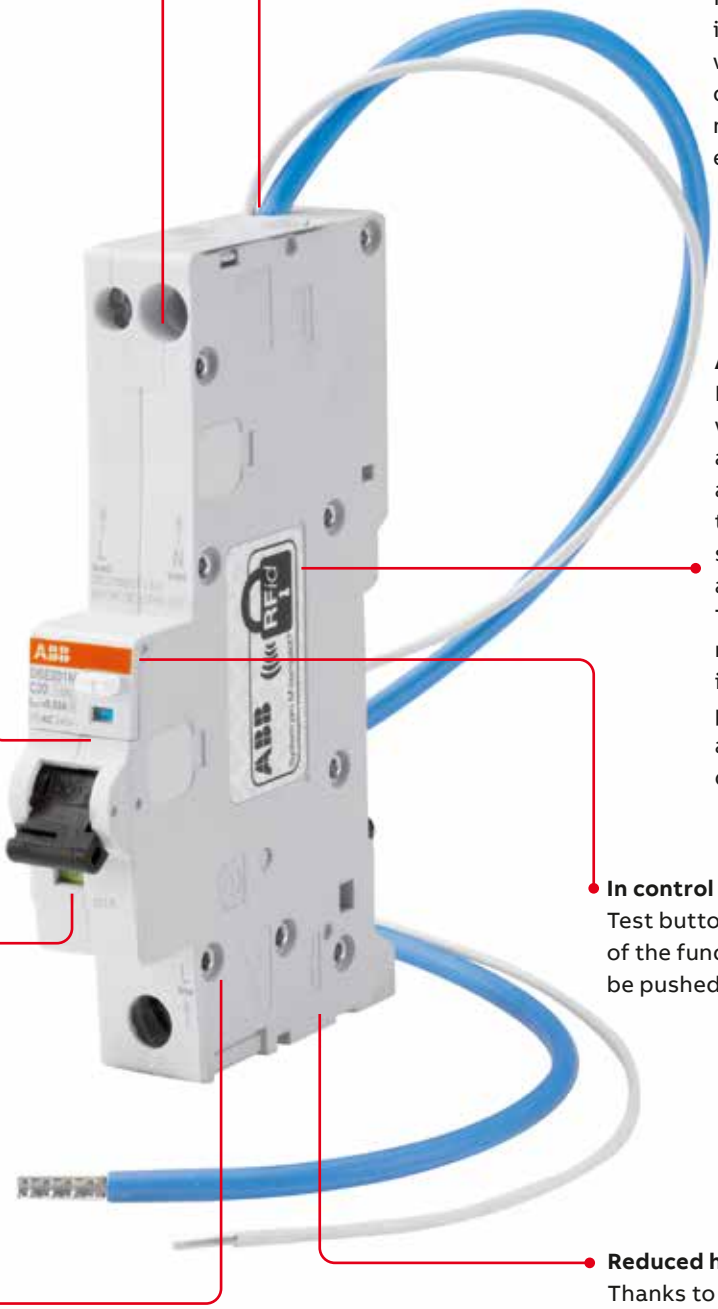
Features, which make operations friendly

Space for insulated screwdrivers
The larger neutral hole allows the use of an insulated screwdriver to tighten the screw of neutral terminals, ensuring maximum operation safety. All versions are equipped with cage type terminals (16mm² load side), with tightening torque of 1.2 Nm.

Earth fault indicator
Blue window in the front of the device to detect any earth fault trip: the cause of trip of the device can be identified in a short time, reducing the downtime for maintenance. DSE201 M is the only device equipped with an earth fault indicator between one module width electronic RCBOs.

Real contact position indicator below the toggle
Directly linked to the moving contact of the device, the green/red window in the front of the device can identify the current position of the contacts (open/closed) independently on the toggle position.

Combination with auxiliary elements
A platform suitable for quick installation in combination with the standard auxiliary elements that can be mounted with RCDs and MCBs.



Easy to install
Fast installation is supported by the two flying leads for neutral cable and functional earth, each integrated in the device, which can be directly connected to the main neutral bar and main earth bar.

Anti counterfeiting
Each DSE201 is equipped with a RFID tag containing a unique serial number assigned by ABB according to ISO/IEC FCD 15693-3 standard in order to authenticate the product. Through this unique serial number, ABB can easily identify counterfeited products and verify the authenticity of each single device.

In control
Test button allows the regular check of the functionality of the device: to be pushed every six months.

Reduced height
Thanks to its reduced height, only 115 mm, DSE201 M makes easier wiring operation inside the consumer unit or the distribution board.

DSE201 M, unique solution
Distinctive features

With its breaking capacity of 10kA in only one module width and 115mm height, DSE201 M series is the perfect solution for a complete protection in commercial and industrial applications, where space optimization is particularly required. The unique earth fault indicator window identifies any earth fault trip, making easier the troubleshooting on the network and reducing the downtime for maintenance.



Device status at a glance
Earth fault indicator: blue window above the toggle to immediately detect and identify any earth fault trip, reducing downtime for maintenance. Contact position indicator (CPI): green/red window below the toggle to identify the real position of the contacts independently on the toggle position.



Double slot terminal
Easy to install. Fail-safe line side terminal to avoid improper connection. Two slots of different dimensions (35 mm^2 and 10 mm^2) available to allow the connection both with cables and busbars.



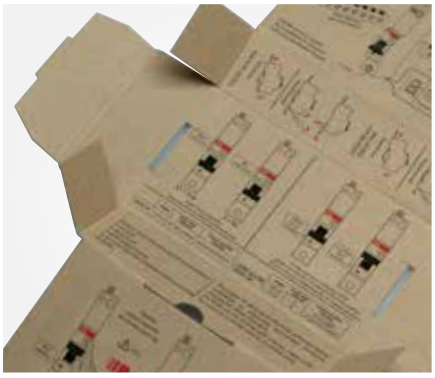
Load side
Load side terminal accepts cables, both rigid and flexible up to 16 mm^2. Flying leads are straight instead of pigtail ones to reduce the space required for wiring operations.



Easy and flexible
Double and bistable clips with a design for a secure fixing in any type of consumer unit or distribution board. Easy removal from a cluster of RCBOs/ MCBs supplied with Busbars.



Smart case
Main technical information are laser-printed on the front and left side of product to ensure long readability. On the right side, the tightening torque and the stripping length of the cable for a correct and safety installation of the unit are molded.



Smart package
Instruction manual printed inside the box with no additional paper wasted. Packaging is glue-less and takes advantage of the adhesive label containing the order information.

DSE201 M

Technical features and overall dimensions

Electrical features			
Standards			IEC 61009-1 ; IEC 61009-2-2; BS EN 61009-1; AS/NZS 61009
Type (wave form of the earth leakage sensed)			AC, A
Number of poles			1P+N
Rated current I_n		A	6≤ In ≤ 50
Rated sensitivity $I_{\Delta n}$		mA	10-30-100-300
Rated voltage U_e		V	230-240
Insulation voltage U_i		V	500 V AC
Overvoltage category			III
Pollution degree			2
Max. operating voltage		V	264
Min. operating voltage for protection against IΔn residual sinusoidal alternating currents		V	85
Operating voltage of circuit test		V	195-264
Rated frequency		Hz	50/60
Rated breaking capacity acc. to IEC 61009	ultimate I_{cn}	A	10000
Rated breaking capacity acc. to IEC 60947-2 (only referring to internal short circuit test)	ultimate I_{cu}	kA	15 (for 6A ≤ In ≤ 40A)
		kA	10 (for In = 50A)
	service I_{cs}	kA	7.5
Rated residual breaking capacity $I_{\Delta m}$		kA	10
Rated impulse withstand voltage (1.2/50) U_{imp}		kV	4 kV (test voltage 6.2kV at sea level, 5kV at 2000m)
Dielectric test voltage at ind. freq. for 1 min.		kV	2.5 kV (50 / 60Hz, 1 min.)
Thermomagnetic release - characteristic	B: 3 $I_n \le I_m \le 5\ I_n$		■
	C: 5 $I_n \le I_m \le 10\ I_n$		■
Mechanical data			
Housing			insulation group II, RAL 7035
Toggle			insulation group II, black, sealable in ON-OFF positions
Earth fault indicator			blue window
Contact position indication			green/red Window
Electrical life		operations	10000
Mechanical life		operations	20000
Protection degree	in enclosure with cover		IP40
	terminals		IP20
Shock resistance acc. to IEC/EN 60068-2-27			30g - 2 shocks - 13ms
Vibration resistance acc. to IEC/EN 60068-2-6			0.35mm or 5g - 20 cycles at 5...150...5 Hz without load
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C/RH	28 cycles with 55°C/90-96% and 25°C/95-100%
Reference temperature for setting of thermal element		°C	30
Ambient temperature (with daily average ≤ +35 °C)		°C	-25...+55
Storage temperature		°C	-40...+70

DSE201 M

Technical features and overall dimensions

Installation			
Terminal type	top (load side)		failsafe cage (shock protected)
	bottom (line side)		failsafe bi-directional cylinder-lift terminal (shock protected)
Terminal size for cables	load side	mm²	16
	line side (solid/ flexible)	mm²	35/25
Terminal size for busbars	load side		only for wire connection
	line side	mm²	10 (Standard ABB busbar / distribution board system)
Tightening torque	top (load side)	Nm	1.2
	bottom (line side)	Nm	2.8
Stripping length of the cable	top (load side)	mm	11
	bottom (line side)	mm	12.5
Neutral load cable	Type		low smoke halogen free
	Lenght	mm	750
	Section	mm²	2.5 mm² up to 20 A; 4 mm² up to 50 A
	Color		blue (available also black)
Functional earth cable	Type		low smoke halogen free
	Lenght	mm	750
	Section	mm²	0.75
	Color		white
Mounting			on DIN rail EN 60715 (35 mm) by means of fast clip device in consumer unit Type A according to IEC 61439-1&3, BS EN 61439-1&3 in distribution board Type B according to IEC 61439-1&3, BS EN 61439-1&3
Supply from			bottom terminal
Dimensions and weight			
Dimensions (H x D x W)		mm	115 x 68.9 x 17.6
Weight		g	200
Combination with auxiliary elements			
Auxiliary contact	yes		
Signal contact / auxiliary switch	yes		
Shunt trip	yes		
Undervoltage release	yes		
Overvoltage release	yes		
Auxiliary contact for MCBs bottom fitting	yes		

eRCBOs

DSE201 M series 10000 A type, B characteristic



DSE201 M ... A30

DSE201 M A type, B characteristic
Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn = 30 mA). The neutral is unswitched. Voltage dependent RCBO.

Application: commercial, industrial
Standard: AS/NZS 61009-1; IEC 61009-2-2; BS EN 61009-1; AS/NZS 61009.1
Icn = 10 000 A

N. of poles	Rated residual current IΔn	Rated Current	Bbn 8012542 EAN	Order details		Weight 1 piece [kg]	Pack unit pc.
	[mA]	In [A]		Type code	Order code		
B characteristic							
1P+N	10	6	079231	DSE201 M B6 A10	2CSR275151R0065	0.200	1
		10	305033	DSE201 M B10 A10	2CSR275151R0105	0.200	1
		16	305132	DSE201 M B16 A10	2CSR275151R0165	0.200	1
		20	400233	DSE201 M B20 A10	2CSR275151R0205	0.200	1
		25	400035	DSE201 M B25 A10	2CSR275151R0255	0.200	1
		32	400134	DSE201 M B32 A10	2CSR275151R0325	0.200	1
		40	058830	DSE201 M B40 A10	2CSR275151R0405	0.200	1
		50	896531	DSE201 M B50 A10	2CSR275151R0505	0.200	1
1P+N	30	6	830832	DSE201 M B6 A30	2CSR275151R1065	0.200	1
		10	839835	DSE201 M B10 A30	2CSR275151R1105	0.200	1
		16	896739	DSE201 M B16 A30	2CSR275151R1165	0.200	1
		20	768432	DSE201 M B20 A30	2CSR275151R1205	0.200	1
		25	831136	DSE201 M B25 A30	2CSR275151R1255	0.200	1
		32	840138	DSE201 M B32 A30	2CSR275151R1325	0.200	1
		40	830733	DSE201 M B40 A30	2CSR275151R1405	0.200	1
		50	839736	DSE201 M B50 A30	2CSR275151R1505	0.200	1

eRCBOs

DSE201 M series 10000 A type, C characteristic



DSE201 M ... A300

DSE201 M A type, C characteristic
Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn = 30 mA). The neutral is unswitched. Voltage dependent RCBO.

Application: commercial, industrial
Standard: AS/NZS 61009-1; IEC 61009-2-2; BS EN 61009-1; AS/NZS 61009.1
Icn = 10 000 A

N. of poles	Rated residual current IΔn	Rated Current	Bbn 8012542 EAN	Order details		Weight 1 piece [kg]	Pack unit pc.
	[mA]	In [A]		Type code	Order code		
C characteristic							
1P+N	10	6	768234	DSE201 M C6 A10	2CSR275151R0064	0.200	1
		10	830931	DSE201 M C10 A10	2CSR275151R0104	0.200	1
		16	839934	DSE201 M C16 A10	2CSR275151R0164	0.200	1
		20	768531	DSE201 M C20 A10	2CSR275151R0204	0.200	1
		25	831235	DSE201 M C25 A10	2CSR275151R0254	0.200	1
		32	840237	DSE201 M C32 A10	2CSR275151R0324	0.200	1
		40	896432	DSE201 M C40 A10	2CSR275151R0404	0.200	1
		50	768135	DSE201 M C50 A10	2CSR275151R0504	0.200	1
1P+N	30	6	896630	DSE201 M C6 A30	2CSR275151R1064	0.200	1
		10	768333	DSE201 M C10 A30	2CSR275151R1104	0.200	1
		16	831037	DSE201 M C16 A30	2CSR275151R1164	0.200	1
		20	840039	DSE201 M C20 A30	2CSR275151R1204	0.200	1
		25	631637	DSE201 M C25 A30	2CSR275151R1254	0.200	1
		32	376033	DSE201 M C32 A30	2CSR275151R1324	0.200	1
		40	629733	DSE201 M C40 A30	2CSR275151R1404	0.200	1
		50	375937	DSE201 M C50 A30	2CSR275151R1504	0.200	1
1P+N	100	6	779339	DSE201 M C6 A100	2CSR275151R2064	0.200	1
		10	769330	DSE201 M C10 A100	2CSR275151R2104	0.200	1
		16	631538	DSE201 M C16 A100	2CSR275151R2164	0.200	1
		20	375838	DSE201 M C20 A100	2CSR275151R2204	0.200	1
		25	779230	DSE201 M C25 A100	2CSR275151R2254	0.200	1
		32	631439	DSE201 M C32 A100	2CSR275151R2324	0.200	1
		40	940739	DSE201 M C40 A100	2CSR275151R2404	0.200	1
		50	941330	DSE201 M C50 A100	2CSR275151R2504	0.200	1
1P+N	300	6	620235	DSE201 M C6 A300	2CSR275151R3064	0.200	1
		10	021834	DSE201 M C10 A300	2CSR275151R3104	0.200	1
		16	021735	DSE201 M C16 A300	2CSR275151R3164	0.200	1
		20	021636	DSE201 M C20 A300	2CSR275151R3204	0.200	1
		25	021537	DSE201 M C25 A300	2CSR275151R3254	0.200	1
		32	021438	DSE201 M C32 A300	2CSR275151R3324	0.200	1
		40	021339	DSE201 M C40 A300	2CSR275151R3404	0.200	1
		50	021230	DSE201 M C50 A300	2CSR275151R3504	0.200	1

eRCBOs

DSE201 M series 10000 AC type, B characteristic



DSE201 M ... A30

DSE201 M AC type, B characteristic
Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn = 30 mA). The neutral is unswitched. Voltage dependent RCBO.

Application: commercial, industrial
Standard: AS/NZS 61009-1; IEC 61009-2-2; BS EN 61009-1; AS/NZS 61009.1
Icn = 10 000 A

N. of poles	Rated residual current IΔn	Rated Current	Bbn 8012542 EAN	Order details		Weight 1 piece [kg]	Pack unit pc.
	[mA]	In [A]		Type code	Order code		
B characteristic							
1P+N	10	6	938132	DSE201 M B6 AC10	2CSR275051R0065	0.200	1
		10	297734	DSE201 M B10 AC10	2CSR275051R0105	0.200	1
		16	373230	DSE201 M B16 AC10	2CSR275051R0165	0.200	1
		20	373131	DSE201 M B20 AC10	2CSR275051R0205	0.200	1
		25	077534	DSE201 M B25 AC10	2CSR275051R0255	0.200	1
		32	077435	DSE201 M B32 AC10	2CSR275051R0325	0.200	1
		40	077336	DSE201 M B40 AC10	2CSR275051R0405	0.200	1
		50	077237	DSE201 M B50 AC10	2CSR275051R0505	0.200	1
1P+N	30	6	076438	DSE201 M B6 AC30	2CSR275051R1065	0.200	1
		10	076339	DSE201 M B10 AC30	2CSR275051R1105	0.200	1
		16	076230	DSE201 M B16 AC30	2CSR275051R1165	0.200	1
		20	076131	DSE201 M B20 AC30	2CSR275051R1205	0.200	1
		25	076032	DSE201 M B25 AC30	2CSR275051R1255	0.200	1
		32	353430	DSE201 M B32 AC30	2CSR275051R1325	0.200	1
		40	353331	DSE201 M B40 AC30	2CSR275051R1405	0.200	1
		50	266334	DSE201 M B50 AC30	2CSR275051R1505	0.200	1

eRCBOs

DSE201 M series 10000 AC type, C characteristic



DSE201 M ... A300

DSE201 M AC type, C characteristic
Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn = 30 mA). The neutral is unswitched. Voltage dependent RCBO.

Application: commercial, industrial
Standard: AS/NZS 61009-1; IEC 61009-2-2; BS EN 61009-1; AS/NZS 61009.1
Icn = 10 000 A

N. of poles	Rated residual current IΔn	Rated Current	Bbn 8012542 EAN	Order details		Weight 1 piece [kg]	Pack unit pc.
	[mA]	In [A]		Type code	Order code		
C characteristic							
1P+N	10	6	077138	DSE201 M C6 AC10	2CSR275051R0064	0.200	1
		10	077039	DSE201 M C10 AC10	2CSR275051R0104	0.200	1
		16	076933	DSE201 M C16 AC10	2CSR275051R0164	0.200	1
		20	790532	DSE201 M C20 AC10	2CSR275051R0204	0.200	1
		25	076834	DSE201 M C25 AC10	2CSR275051R0254	0.200	1
		32	076735	DSE201 M C32 AC10	2CSR275051R0324	0.200	1
		40	076636	DSE201 M C40 AC10	2CSR275051R0404	0.200	1
		50	076537	DSE201 M C50 AC10	2CSR275051R0504	0.200	1
1P+N	30	6	266235	DSE201 M C6 AC30	2CSR275051R1064	0.200	1
		10	266136	DSE201 M C10 AC30	2CSR275051R1104	0.200	1
		16	266037	DSE201 M C16 AC30	2CSR275051R1164	0.200	1
		20	265931	DSE201 M C20 AC30	2CSR275051R1204	0.200	1
		25	790839	DSE201 M C25 AC30	2CSR275051R1254	0.200	1
		32	265832	DSE201 M C32 AC30	2CSR275051R1324	0.200	1
		40	353232	DSE201 M C40 AC30	2CSR275051R1404	0.200	1
		50	518235	DSE201 M C50 AC30	2CSR275051R1504	0.200	1
1P+N	100	6	186830	DSE201 M C6 AC100	2CSR275051R2064	0.200	1
		10	352235	DSE201 M C10 AC100	2CSR275051R2104	0.200	1
		16	186731	DSE201 M C16 AC100	2CSR275051R2164	0.200	1
		20	352136	DSE201 M C20 AC100	2CSR275051R2204	0.200	1
		25	263937	DSE201 M C25 AC100	2CSR275051R2254	0.200	1
		32	263838	DSE201 M C32 AC100	2CSR275051R2324	0.200	1
		40	263739	DSE201 M C40 AC100	2CSR275051R2404	0.200	1
		50	263630	DSE201 M C50 AC100	2CSR275051R2504	0.200	1
1P+N	300	6	263531	DSE201 M C6 AC300	2CSR275051R3064	0.200	1
		10	518334	DSE201 M C10 AC300	2CSR275051R3104	0.200	1
		16	263432	DSE201 M C16 AC300	2CSR275051R3164	0.200	1
		20	186038	DSE201 M C20 AC300	2CSR275051R3204	0.200	1
		25	352037	DSE201 M C25 AC300	2CSR275051R3254	0.200	1
		32	185932	DSE201 M C32 AC300	2CSR275051R3324	0.200	1
		40	185833	DSE201 M C40 AC300	2CSR275051R3404	0.200	1
		50	185734	DSE201 M C50 AC300	2CSR275051R3504	0.200	1

DSE203N M eRCBO 3P+N 3M
Product at a glance

Load connection
Load from the top. Neutral is Unswitched and on the left.

All screws are on the same level for a fast and easy installation.

Printed information
Main technical information are printed on the front side, visible also when the device is installed.

Easy to install
Supply from the bottom, for a quick installation in chassis distribution board and DIN-Rail.



Neutral Flying lead
The neutral is supplied from the top via solid cable. Black or blue color depending by the different country installation habits.

Guaranteed security
Contact position indicator (CPI) to show the contact status independently from the toggle position. Green: open / Red: closed.

Stable fixing
Two clips on bottom side ensure a good stability on chassis and DIN-Rail.

DSE203N M Datasheet

Technical features

			DSE203N M
Standards			IEC 61009-1; IEC 61009-2-2; AS/NZS 61009.1
Electrical features			
Type (wave form of the earth leakage sensed)			A
Number of poles			3P+N
Number od modules			3M
Rated sensitivity $I_{\Delta n}$		mA	10, 30, 100, 300
Tripping Characteristic			B, C
Rated current I_n		A	$6 \le I_n \le 63$
Rated voltage U_e		V AC	400/415
Insulation voltage U_i		V	500
Overvoltage category			III
Pollution degree			2
Rated frequency		Hz	50/60
Min. operating voltage for protection against $I_{\Delta n}$ residual sinusoidal alternating currents		V AC	150
Max operating voltage		V AC	457
Operating voltage of circuit test		V AC	204 - 457
Rated breaking capacity acc. to IEC 61009-1	I_{cn}	A	10000
Rated residual breaking capacity $I_{\Delta m}$ to IEC 61009-1	$I_{\Delta m}$	A	6000
Rated impulse withstand voltage (1.2/50) U_{imp}		kV	4 kV (test voltage 6.2 kV at sea level, 5 kV at 2,000 m)
Dielectric test voltage at ind. freq. for 1 min.		kV	2 kV (50 / 60 Hz, 1 min.)
Thermomagnetic release - characteristic	B: $3\ I_n \le I_m \le 5\ I_n$		▪
	C: $5\ I_n \le I_m \le 10\ I_n$		▪
Mechanical features			
Housing			Insulation group I, RAL 7035
Toggle			Insulation group II, black: Pantone black c
Contact position indicator			Green/Red window
Electrical life		operations	10000
Mechanical life		operations	20000
Protection degree acc. to EN 60529	housing		IP40
	terminals		IP20
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C/RH	28 cycles with 55°C/90-96% and 25°C/95-100%
Reference temperature for setting of thermal element		°C	30
Ambient temperature (with daily average ≤ +35 °C)		°C	-5...+40
Storage temperature		°C	-25...+70
Installation			
Terminal type	top / bottom		pillar terminals
Terminal size for cables	top / bottom	mm^2	16/16 flexible; 25/25 rigid
Tightening torque	top / bottom	Nm	2.5
Stripping length of the cable	top / bottom	mm	11.5/15
Mounting			on DIN rail EN 60715 (35 mm) by means of mounting clip
Neutral Cable	Lenght	mm	1000
	Section	mm^2	6...25 A: 2.5 mm; 32, 40 A: 4 mm^2; 50, 63 A: 6 mm^2
	Color		Black: Pantone black c
Mounting position			Vertical & Horizontal
Supply from			Bottom terminals
Dimensions and weight			
Dimensions (H x D x W)		mm	117.5 x 71.6 x 53.4
Weight		g	549

DSE203N M

Ordering data



DSE203N M: 3P+N eRCBO
Function: protection and control of the circuits against overloads and short-circuits; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact ($I_{\Delta n}$ = 30 mA). The neutral is switched. Voltage dependent RCBO.

Applications: residential, commercial, industrial
Standard: IEC 61009-1; IEC 61009-2-2; AS/NZS 61009.1

N. Poles	Breaking capacity	Type	Sensitivity $I_{\Delta n}$ mA	Tripping Char.	Rated Current I_n A	EAN	Order details		Weight 1 piece kg	Pack unit pc.
							Type code	Order code		
3+N	10 kA	A	10	B	6	6941593441662	DSE203N M B6 A10	2TAZ233414R1065	0.549	1
					10	6941593441679	DSE203N M B10 A10	2TAZ233414R1105	0.549	1
					13	6941593441686	DSE203N M B13 A10	2TAZ233414R1135	0.549	1
					16	6941593441693	DSE203N M B16 A10	2TAZ233414R1165	0.549	1
					20	6941593441709	DSE203N M B20 A10	2TAZ233414R1205	0.549	1
					25	6941593441716	DSE203N M B25 A10	2TAZ233414R1255	0.549	1
					32	6941593441723	DSE203N M B32 A10	2TAZ233414R1325	0.549	1
					40	6941593441730	DSE203N M B40 A10	2TAZ233414R1405	0.549	1
					50	6941593441747	DSE203N M B50 A10	2TAZ233414R1505	0.549	1
					63	6941593441754	DSE203N M B63 A10	2TAZ233414R1635	0.549	1
				C	6	6941593441761	DSE203N M C6 A10	2TAZ233414R1064	0.549	1
					10	6941593441778	DSE203N M C10 A10	2TAZ233414R1104	0.549	1
					13	6941593441785	DSE203N M C13 A10	2TAZ233414R1134	0.549	1
					16	6941593441792	DSE203N M C16 A10	2TAZ233414R1164	0.549	1
					20	6941593441808	DSE203N M C20 A10	2TAZ233414R1204	0.549	1
					25	6941593441815	DSE203N M C25 A10	2TAZ233414R1254	0.549	1
					32	6941593441822	DSE203N M C32 A10	2TAZ233414R1324	0.549	1
					40	6941593441839	DSE203N M C40 A10	2TAZ233414R1404	0.549	1
					50	6941593441846	DSE203N M C50 A10	2TAZ233414R1504	0.549	1
					63	6941593441853	DSE203N M C63 A10	2TAZ233414R1634	0.549	1

N. Poles	Breaking capacity	Type	Sensitivity $I_{\Delta n}$ mA	Tripping Char.	Rated Current I_n A	EAN	Order details		Weight 1 piece kg	Pack unit pc.
							Type code	Order code		
3+N	10 kA	A	30	B	6	6941593441969	DSE203N M B6 A30	2TAZ233414R2065	0.549	1
					10	6941593441976	DSE203N M B10 A30	2TAZ233414R2105	0.549	1
					13	6941593441983	DSE203N M B13 A30	2TAZ233414R2135	0.549	1
					16	6941593441990	DSE203N M B16 A30	2TAZ233414R2165	0.549	1
					20	6941593442003	DSE203N M B20 A30	2TAZ233414R2205	0.549	1
					25	6941593442010	DSE203N M B25 A30	2TAZ233414R2255	0.549	1
					32	6941593442027	DSE203N M B32 A30	2TAZ233414R2325	0.549	1
					40	6941593442034	DSE203N M B40 A30	2TAZ233414R2405	0.549	1
					50	6941593442041	DSE203N M B50 A30	2TAZ233414R2505	0.549	1
					63	6941593442058	DSE203N M B63 A30	2TAZ233414R2635	0.549	1
				C	6	6941593442065	DSE203N M C6 A30	2TAZ233414R2064	0.549	1
					10	6941593442072	DSE203N M C10 A30	2TAZ233414R2104	0.549	1
					13	6941593442089	DSE203N M C13 A30	2TAZ233414R2134	0.549	1
					16	6941593442096	DSE203N M C16 A30	2TAZ233414R2164	0.549	1
					20	6941593442102	DSE203N M C20 A30	2TAZ233414R2204	0.549	1
					25	6941593442119	DSE203N M C25 A30	2TAZ233414R2254	0.549	1
					32	6941593442126	DSE203N M C32 A30	2TAZ233414R2324	0.549	1
					40	6941593442133	DSE203N M C40 A30	2TAZ233414R2404	0.549	1
					50	6941593442140	DSE203N M C50 A30	2TAZ233414R2504	0.549	1
					63	6941593442157	DSE203N M C63 A30	2TAZ233414R2634	0.549	1

N. Poles	Breaking capacity	Type	Sensitivity $I_{\Delta n}$ mA	Tripping Char.	Rated Current I_n A	EAN	Order details		Weight 1 piece kg	Pack unit pc.
							Type code	Order code		
3+N	10 kA	A	100	B	6	6941593442263	DSE203N M B6 A100	2TAZ233414R3065	0.549	1
					10	6941593442270	DSE203N M B10 A100	2TAZ233414R3105	0.549	1
					13	6941593442287	DSE203N M B13 A100	2TAZ233414R3135	0.549	1
					16	6941593442294	DSE203N M B16 A100	2TAZ233414R3165	0.549	1
					20	6941593442300	DSE203N M B20 A100	2TAZ233414R3205	0.549	1
					25	6941593442317	DSE203N M B25 A100	2TAZ233414R3255	0.549	1
					32	6941593442324	DSE203N M B32 A100	2TAZ233414R3325	0.549	1
					40	6941593442331	DSE203N M B40 A100	2TAZ233414R3405	0.549	1
					50	6941593442348	DSE203N M B50 A100	2TAZ233414R3505	0.549	1
					63	6941593442355	DSE203N M B63 A100	2TAZ233414R3635	0.549	1
				C	6	6941593442362	DSE203N M C6 A100	2TAZ233414R3064	0.549	1
					10	6941593442379	DSE203N M C10 A100	2TAZ233414R3104	0.549	1
					13	6941593442386	DSE203N M C13 A100	2TAZ233414R3134	0.549	1
					16	6941593442393	DSE203N M C16 A100	2TAZ233414R3164	0.549	1
					20	6941593442409	DSE203N M C20 A100	2TAZ233414R3204	0.549	1
					25	6941593442416	DSE203N M C25 A100	2TAZ233414R3254	0.549	1
					32	6941593442423	DSE203N M C32 A100	2TAZ233414R3324	0.549	1
					40	6941593442430	DSE203N M C40 A100	2TAZ233414R3404	0.549	1
					50	6941593442447	DSE203N M C50 A100	2TAZ233414R3504	0.549	1
					63	6941593442454	DSE203N M C63 A100	2TAZ233414R3634	0.549	1

N. Poles	Breaking capacity	Type	Sensitivity $I_{\Delta n}$ mA	Tripping Char.	Rated Current I_n A	EAN	Order details		Weight 1 piece kg	Pack unit pc.
							Type code	Order code		
3+N	10 kA	A	300	B	6	6941593442560	DSE203N M B6 A300	2TAZ233414R4065	0.549	1
					10	6941593442577	DSE203N M B10 A300	2TAZ233414R4105	0.549	1
					13	6941593442584	DSE203N M B13 A300	2TAZ233414R4135	0.549	1
					16	6941593442591	DSE203N M B16 A300	2TAZ233414R4165	0.549	1
					20	6941593442607	DSE203N M B20 A300	2TAZ233414R4205	0.549	1
					25	6941593442614	DSE203N M B25 A300	2TAZ233414R4255	0.549	1
					32	6941593442621	DSE203N M B32 A300	2TAZ233414R4325	0.549	1
					40	6941593442638	DSE203N M B40 A300	2TAZ233414R4405	0.549	1
					50	6941593442645	DSE203N M B50 A300	2TAZ233414R4505	0.549	1
					63	6941593442652	DSE203N M B63 A300	2TAZ233414R4635	0.549	1
				C	6	6941593442669	DSE203N M C6 A300	2TAZ233414R4064	0.549	1
					10	6941593442676	DSE203N M C10 A300	2TAZ233414R4104	0.549	1
					13	6941593442683	DSE203N M C13 A300	2TAZ233414R4134	0.549	1
					16	6941593442690	DSE203N M C16 A300	2TAZ233414R4164	0.549	1
					20	6941593442706	DSE203N M C20 A300	2TAZ233414R4204	0.549	1
					25	6941593442713	DSE203N M C25 A300	2TAZ233414R4254	0.549	1
					32	6941593442720	DSE203N M C32 A300	2TAZ233414R4324	0.549	1
					40	6941593442737	DSE203N M C40 A300	2TAZ233414R4404	0.549	1
					50	6941593442744	DSE203N M C50 A300	2TAZ233414R4504	0.549	1
					63	6941593442751	DSE203N M C63 A300	2TAZ233414R4634	0.549	1

Residual current relays

RD2



RD2

Technical features		
Operating voltage	[V]	230÷400 a.c. (RD2) and 48÷150 a.c./d.c. (RD2-48)
Frequency	[Hz]	50÷60
Type		A
Operating temperature	[°C]	-5...+40
Power consumption	[W]	<3.4, 230 V a.c.
Sensitivity settings IΔn	[A]	0.03; 0.1; 0.3; 0.5; 1; 2
Tripping time settings	[s]	Fast (instantaneous); 0.3; 0.5; 1; 2; 5
Contact capacity	[A]	10 at 250 V a.c. (ohmic)
Contact type		NC-C-NO
Modules	[No.]	2
Protection degree		IP20
Standards		IEC/EN 62020

RD2 residual current relays

Residual current relays with external toroidal transformer can detect leakage currents. Through minidip it is possible to set sensitivity and intervention time. RD2 residual current relays are designed to be used with external toroid belonging to TR family – see the dedicated section in page 2/153.

Operating voltage	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
[V]	EAN	Type code	Order code		[kg]	pc.
230...400 a.c.	058007	RD2	2CSM142120R1201		0.125	1
48...150 a.c./d.c.	537809	RD2-48	2CSM242120R1201		0.125	1

Residual current relays

RD3



RD3



RD3M



RD3P

Technical features	RD3/RD3-48	RD3M/RD3M-48	RD3P/RD3P-48
Operating voltage	RD3: 230-400 Vac +10% / -15%	RD3M: 230-400 Vac +10% / -15%	RD3P: 230-400 Vac +10% / -15%
	RD3-48: 12-48 Vac/ Vdc +10% / -15%	RD3M-48: 12-48 Vac/ Vdc +10% / -15%	RD3P-48: 12-48 Vac/ Vdc +10% / -15%
Auxiliary supply frequency	50-60 Hz		
Frequency filter	-	Yes	Yes
Type	A (up to IΔn=5 A) AC (for higher current)		
Operating temperature	-25....+70 °C		
Power consumption	<3.6 W (RD3, RD3M, RD3P), <600 mW RD3-48, RD3M-48, RD3P-48)		
Sensitivity settings IΔn	0.03-0.1-0.3-0.5-1-2-3-5-10-30 A		
Tripping time settings Δt	0-0.06-0.2-0.3-0.5-1-2-3-5-10 s		
Pre-alarm threshold	-	60%	60%
Max. resistance connection between toroidal transformer and relay	3 Ω		
Max. length connection of remote reset button	15 m		
Output Contact capacity (7-8-9); (10-11-12)	8 A, 250 V a.c.		
Led bar indicator	-	-	Yes
Max. cable terminals section	2.5 mm²		
Modules	3		
Dimensions	52.8 × 85 × 64.7 mm		
Protection degree	IP20		
Standards	IEC/EN 60947-2 annex. M; IEC/EN 62020		

RD3 residual current relays

The RD3 family of electronic residual current relays provides residual current protection and monitoring functions according to IEC/EN 60947-2:2006 annex M when used in conjunction with external toroids belonging to TR family, all S 200 miniature circuit breakers and Tmax/XT range moulded case devices up to T5/XT4, for industrial installations. The RD3 residual current relays can provide status indications through two output contacts.

Operating voltage	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
[V]	EAN	Type code	Order code		[kg]	pc.
12-48 a.c./d.c.	748236	RD3-48	2CSJ201001R0001		0.13	1
230-400 a.c.	734833	RD3	2CSJ201001R0002		0.25	1
12-48 a.c./d.c.	733935	RD3M-48	2CSJ202001R0001		0.13	1
230-400 a.c.	747031	RD3M	2CSJ202001R0002		0.25	1
12-48 a.c./d.c.	734734	RD3P-48	2CSJ203001R0001		0.13	1
230-400 a.c.	733836	RD3P	2CSJ203001R0002		0.25	1

Front panel residual current relays

ELR

Technical features		ELR48P	ELR72	ELR72P	ELR96	ELR96P	ELR96PF	ELR96PD
Operating voltage	[V]	24, 48, 110, 230 a.c./ 24, 48, 115 d.c.	24, 48, 110, 230 a.c./ 24, 48, 110 d.c.	24, 48, 110 230, 400 a.c./ 24, 48 d.c.	24, 48, 110, 230, 400 a.c./ 24, 48, 110 d.c.	24, 48, 110, 230, 400 a.c./ 24, 48 d.c.	110, 230, 400 a.c.	110, 230, 400 a.c.
Frequency	[Hz]	50 – 60						
Frequency filter		-	-	-	-	-	Yes	Yes
Type		A						
Operating temperature	[°C]	-10...+60						
Power consumption	[W]	<7						
Sensitivity setting IΔn	[A]	from 0,03 to 30						
Tripping time setting Dt	[s]	from 0 to 5						
Contacts	[no.]	2	1	2	1	2	2	2
Contact capacity	[A]	5 (250 V a.c.)						
Dimensions	[mm]	48 x 48	72 x 72	72 x 72	96 x 96	96 x 96	96x96	96 x 96
Digital display		-	-	-	-	-	-	Yes
Protection degree (with cover)		IP52						
Protection degree (without cover)		IP40						
Protection degree (terminals)		IP20						
Standards		IEC EN 60947-2 Annex M						

Front panel residual current relays

ELR



ELR48P



ELR72



ELR96



ELR96PD

ELR front panel residual current relay

Front panel residual current relays are electronic devices used in combination with an external toroidal transformer. ELR devices are according to the protection standard IEC/EN 60947-2 Annex-M when used in conjunction with external toroids belonging to TR family, all S200 miniature circuit breakers and Tmax/XT range moulded case devices up to T5/XT4, for industrial installations.

The sensitivity can be set from 0.03 A to 30 A, while the tripping time from 0 to 5 seconds. Residual current relays are available in versions 48x48 mm, 72x72 mm, and 96x96 mm. The Fail Safe function is available for the whole ELR range (ELR 48, ELR 72, and ELR96 versions).

The ELR96PF version is equipped with Fail Safe function, fault memory LED, and a frequency filter, that ensure continuity of service in the presence of harmonics.

ELR96PD has (in addition to these functions) a digital display for an instantaneous view of the residual current IΔn.

Operating voltage	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
[V]	EAN	Type code	Order code		[kg]	pc.
110 V a.c./d.c. - 230 V a.c.	748229	ELR48P	2CSG252211R1202		0.112	1
24-48 V a.c./d.c.	734826	ELR48V24P	2CSG452211R1202		0.112	1
110 V a.c./d.c. - 230 V a.c.	733928	ELR72	2CSG252120R1202		0.322	1
24-48 V a.c./d.c.	747024	ELR72V24	2CSG452120R1202		0.322	1
110-230-400 V a.c.	734727	ELR72P	2CSG152424R1202		0.322	1
24-48 V a.c./d.c.	733829	ELR72V24P	2CSG452424R1202		0.322	1
110 V. a.c./d.c.-230-400 V a.c.	734628	ELR96	2CSG152130R1202		0.383	1
24-48 V a.c./d.c.	733720	ELR96V24	2CSG452130R1202		0.383	1
110-230-400 V a.c.	734529	ELR96P	2CSG152434R1202		0.383	1
24-48 V a.c./d.c.	733621	ELR96V24P	2CSG452434R1202		0.383	1
110-230-400 V a.c.	734420	ELR96PF	2CSG152435R1202		0.383	1
110-230-400 V a.c.	733522	ELR96PD	2CSG152436R1202		0.383	1

Toroidal transformers

TR



TR

Toroidal transformers

Technical features		TRM	TR1	TR2	TR3	TR4	TR4A	TR160	TR160A	TR5	TR5A	TR6	TR6A
Core		closed	closed	closed	closed	closed	open	closed	open	closed	open	closed	open
Available internal diameter	[mm]	29	35	60	80	110	110	160	160	210	210	300	300
Weight	[kg]	0.17	0.22	0.28	0.45	0.52	0.6	1.35	1.6	1.45	1.85	2.1	2.3
Minimum measurable current	[mA]	30	30	30	100	100	300	300	500	300	500	500	1000
Installation position		Any											
Operating temperature	[°C]	-10...+70											
Storage temperature	[°C]	-20...+80											
Transformation ratio		500/1											
Dielectric test voltage at industrial freq. for 1 min.	[kV]	2.5											
Max. insulating voltage	[V a.c.]	1000											
Max. thermal overload	[kA]	40/1 sec.											
Connections		Screw terminal boards, max. section 2.5 mm²											
Protection degree		IP20											

Dimension Ø	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
[mm]	EAN	Type code	Order code		[kg]	pc.
29 (modular version)	020707	TRM	2CSM029000R1211		0.170	1
35	020301	TR1	2CSG035100R1211		0.212	1
60	020400	TR2	2CSG060100R1211		0.274	1
80	020509	TR3	2CSG080100R1211		0.454	1
110	020608	TR4	2CSG110100R1211		0.530	1
110 (openable version)	743408	TR4/A	2CSG110200R1211		0.600	1
160	743507	TR160	2CSG160100R1211		1.350	1
160 (openable version)	743606	TR160A	2CSG160200R1211		1.600	1
210	024804	TR5	2CSG210100R1211		1.534	1
210 (openable version)	065708	TR5/A	2CSG210200R1211		1.856	1
300	185413	TR6	2CSG300100R1211		2.100	1
300 (openable version)	180715	TR6/A	2CSG300200R1211		2.300	1

Notes

Electrical installation solutions for buildings

Arc Fault Detection Devices

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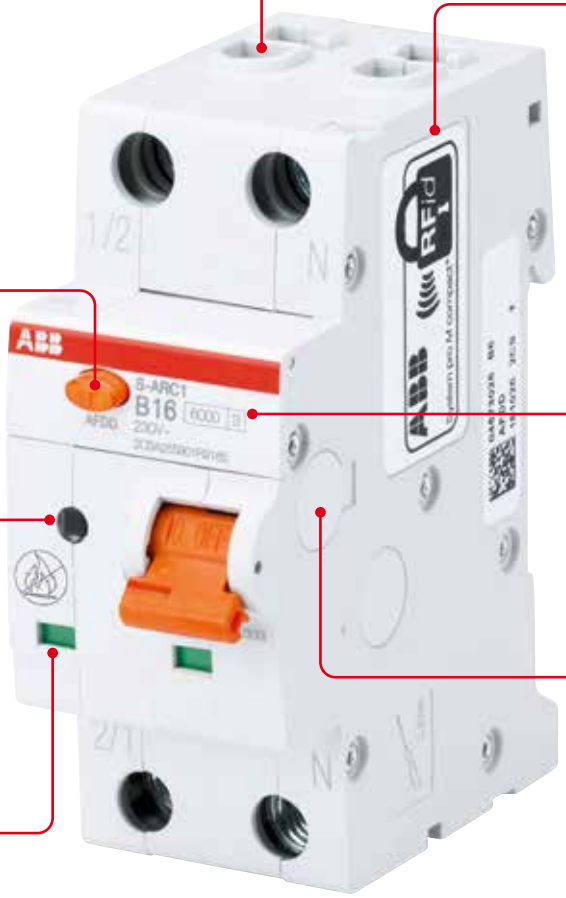
AFDD S-ARC1:
Arc Fault Detection Device Integrated with MCB

Easy to install
Twin terminals for separate feeding with busbar and cables. Connection possible both from top and bottom side.

Test pushbutton and self test
Test pushbutton to verify the correct functioning of the arc fault detection device. Internal self test is also continuously running in order to check the arc detection circuit.

LED for troubleshooting
LED troubleshooting indicator to monitor the operation of the AFDD and give indication of the cause of the trip. Possibility to recall in memory the last tripping due to arc fault and overvoltage.

Contact position indicator (CPI)
To always know the status of the contacts (red: closed; green: open) Independent from the toggle position



Anti counterfeiting
RFid tag containing a unique serial number assigned to ABB in order to authenticate the product.

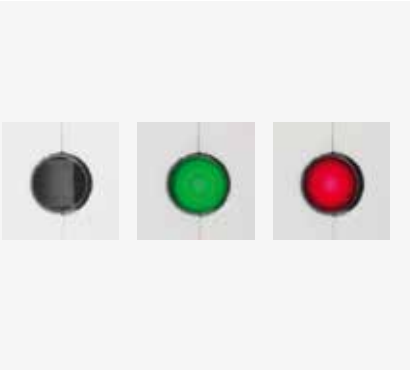
Laser printed information
Information on the device are laser printed to ensure readability over time.

Combination with auxiliary elements
Platform suitable for combination with System pro M compact® accessories.

The S-ARC1 is the new 1P+N Arc Fault Detection Device (AFDD) with an integrated Miniature Circuit Breaker (MCB) in only two module width. Besides the overcurrent protection of the MCB, the S-ARC1 provides additional protection against series, parallel and earth arc faults. The series is perfectly integrated with ABB's System pro M compact® range. Combined with a Residual Current Circuit Breaker (RCCB) as upstream device, the S-ARC1 provides the best solution for complete protection of electrical installations in buildings.

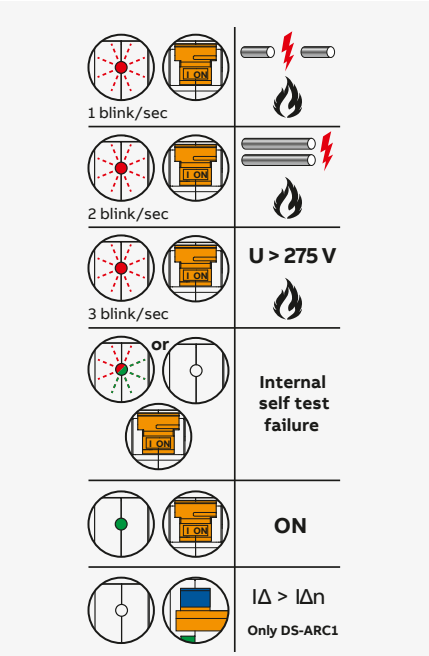


LED for easy troubleshooting
LED to monitor the correct working conditions of the device and have an easier troubleshooting in case of trip. Consequently the downtime for maintenance can be reduced.
– Toggle ON: GREEN LED
– Toggle OFF: LED OFF
– Different indications after the trip, after reclosing the toggle
– Possibility to recall in memory the last tripping due to arc fault and overvoltage



LED color	Blink/ sec	Signalling duration	Cause of trip
Green		Permanent	Manual trip, manual test , overcurrent
Red blinking	1	5 sec	Series arc
Red blinking	2	5 sec	Parallel arc
Red blinking	3	5 sec	Over voltage

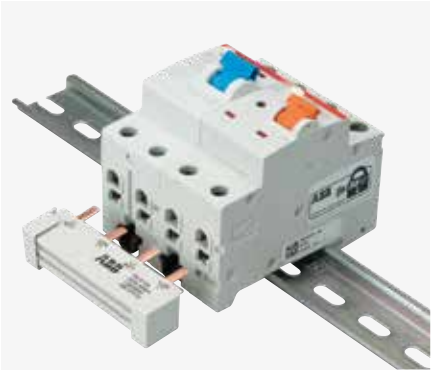
In case of internal self test failure, the led can switch off or start blinking green/red alternatively.



Dedicated sticker for LED
Dedicated sticker that summarizes the LED function is present in addition to the instructions sheet.



Double slot terminals
Fail-safe terminals to avoid improper connection. Two slots of different dimensions (25 mm² and 10 mm²) available to allow the connection both with cables and busbars. Connection possible both from top and bottom side. Standard System pro M compact® clip ensures a stable fixing on DIN rail and easy and fast mounting and dismounting operations.



Compatibility with busbars
A quick and easy installation is possible in one step using a standard ABB System pro M compact® busbar: no additional cables required for the wiring.



All information on the device
Main technical information are laser-printed on the front and left side of product to ensure long readability.

AFDD

Technical features and overall dimensions

				S-ARC1	S-ARC1 M
	Standards			IEC/EN 62606; IEC/EN 60898-1	
Electrical Functions	Number of poles			1P + N	
	Rated current I_n		A	6 ≤ In ≤ 40	
	Rated voltage U_e		V	230 – 240	
	Insulation voltage U_i		V	500 V AC	
	Overvoltage category			III	
	Pollution degree			2	
	Min. operating voltage		V	170	
	Threshold for protection against overvoltage		V	275	
	Rated frequency		Hz	50/60	
	Rated breaking capacity acc. to IEC/EN 60898-1	ultimate I_{cn}	A	6000	10000
	Rated breaking capacity acc. to IEC/EN 60947-2 (only referring to short circuit test)	ultimate I_{cu}	kA	7.5	10
		service I_{cs}	kA	6	7.5
	Rated making and breaking capacity of one individual pole I_{cn1}		A	6000	
	Rated impulse withstand voltage (1.2/50) U_{imp}		kV	4	
	Dielectric test voltage at ind. freq. for 1 min.		kV	2.5 (50/60 Hz, 1 min.)	
	Thermomagnetic release – characteristic	B: 3 I_n ≤ I_m ≤ 5 I_n		■	
		C: 5 I_n ≤ I_m ≤ 10 I_n		■	
	Energy limiting class			3	
Mechanical main features	Housing			Insulation group I, RAL 7035	
	Toggle			Insulation group II, Orange RAL 2004, sealable in ON-OFF-positions	
	Contact position indication			Green/red window	
	Electrical life			10000 operations	
	Mechanical life			20000 operations	
	Protection degree acc. to EN 60529	housing		IP4X	
		terminals		IP2X	
	Shock resistance acc. to IEC/EN 60068-2-27			25 g – 2 shocks – 13 ms	
	Vibration resistance acc. to IEC/EN 60068-2-6			0.2 mm or 5 g – 20 cycles at 5 … 150 … 5 Hz	
	Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C/ RH	28 cycles with 55°C/90 – 96 % and 25°C/95 – 100 %	
	Reference temperature for setting of thermal element		°C	30	
	Ambient temperature (with daily average ≤ +35 °C)		°C	-25 … +55	
	Storage temperature		°C	-40 … +70	
Assembly	Terminal type	top/bottom		failsafe bi-directional cylinder-lift terminal (shock-protected)	
	Terminal size for cables	top/bottom	mm²	25/25	
	Terminal size for busbars	top/bottom	mm²	10/10	
	Tightening torque	top/bottom	Nm	2.8	
	Stripping length of the cable		mm	12	
	Mounting			on DIN rail EN 60715 (35 mm) by means of mounting clip	
	Mounting position			any	
	Supply from			Top/bottom terminals	
Dimensions and weight	Dimensions (H x D x W)		mm	85 × 69 × 35	
	Weight		g	180	

AFDD

Technical features and overall dimensions

Installation				
Terminal type	top / bottom		failsafe bi-directional cylinder-lift terminal (shock protected)	failsafe bi-directional cylinder-lift terminal (shock protected)
Terminal size for cables	top / bottom	mm^2	25/25	25/25
Terminal size for busbars	top / bottom	mm^2	10/10	10/10
Tightening torque	top / bottom	Nm	2.8	2.8
Stripping length of the cable		mm	12,5	12,5
Mounting			on DIN rail EN 60715 (35mm) by means of mounting clip	on DIN rail EN 60715 (35mm) by means of mounting clip
Mounting position			Any	Any
Supply from			Top/Bottom terminals	Top/Bottom terminals
Dimensions and weight				
Dimensions (H x D x W)		mm	85 x 69 x 35 mm	85 x 69 x 35 mm
Weight		g	180	180
Combinable with accessories and auxiliaries	Auxiliary contact, signal contact/auxiliary switch, shunt trip, undervoltage release, overvoltage release			

AFDD

S-ARC1, B and C characteristic



S-ARC1, B and C characteristics
Function: protection of end user single-phase circuits against short-circuit currents, overload, earth arc faults, parallel arc faults and series arc faults.

Application: residential, commercial
Standard: IEC 62606; EN 62606; IEC 60898-1; EN 60898-1
Icn = 6 000 A

B-Characteristic

No. of poles	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1+N	6	750130	S-ARC1 B6	2CSA255901R9065		0.18	1
	10	178132	S-ARC1 B10	2CSA255901R9105		0.18	1
	13	750031	S-ARC1 B13	2CSA255901R9135		0.18	1
	16	178033	S-ARC1 B16	2CSA255901R9165		0.18	1
	20	749936	S-ARC1 B20	2CSA255901R9205		0.18	1
	25	341116	S-ARC1 B25	2CSA255901R9255		0.18	1
	32	341017	S-ARC1 B32	2CSA255901R9325		0.18	1
	40	340812	S-ARC1 B40	2CSA255901R9405		0.18	1

C-Characteristic

No. of poles	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1+N	6	177937	S-ARC1 C6	2CSA255901R9064		0.18	1
	10	749837	S-ARC1 C10	2CSA255901R9104		0.18	1
	13	500735	S-ARC1 C13	2CSA255901R9134		0.18	1
	16	886136	S-ARC1 C16	2CSA255901R9164		0.18	1
	20	175438	S-ARC1 C20	2CSA255901R9204		0.18	1
	25	374114	S-ARC1 C25	2CSA255901R9254		0.18	1
	32	374015	S-ARC1 C32	2CSA255901R9324		0.18	1
	40	373919	S-ARC1 C40	2CSA255901R9404		0.18	1

AFDD

S-ARC1 M, B and C characteristic



S-ARC1 M, B and C characteristics
Function: protection of end user single-phase circuits against short-circuit currents, overload, earth arc faults, parallel arc faults and series arc faults.

Application: residential, commercial
Standard: IEC 62606; EN 62606; IEC 60898-1; EN 60898-1
Icn = 10 000 A

S-ARC1 M - B characteristics

No. of poles	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1P+N	6	374312	S-ARC1 M B6	2CSA275901R9065		0.18	1
	10	342113	S-ARC1 M B10	2CSA275901R9105		0.18	1
	13	342014	S-ARC1 M B13	2CSA275901R9135		0.18	1
	16	342212	S-ARC1 M B16	2CSA275901R9165		0.18	1
	20	341215	S-ARC1 M B20	2CSA275901R9205		0.18	1
	25	341413	S-ARC1 M B25	2CSA275901R9255		0.18	1
	32	341314	S-ARC1 M B32	2CSA275901R9325		0.18	1
	40	339915	S-ARC1 M B40	2CSA275901R9405		0.18	1

S-ARC1 M - C characteristics

No. of poles	Rated current In A	Bbn 8012542 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
1P+N	6	339816	S-ARC1 M C6	2CSA275901R9064		0.18	1
	10	339717	S-ARC1 M C10	2CSA275901R9104		0.18	1
	13	339618	S-ARC1 M C13	2CSA275901R9134		0.18	1
	16	340416	S-ARC1 M C16	2CSA275901R9164		0.18	1
	20	340317	S-ARC1 M C20	2CSA275901R9204		0.18	1
	25	340218	S-ARC1 M C25	2CSA275901R9254		0.18	1
	32	340119	S-ARC1 M C32	2CSA275901R9324		0.18	1
	40	340010	S-ARC1 M C40	2CSA275901R9404		0.18	1

AFDD DS-ARC1:
Arc Fault Detection Device Integrated with RCBO

Easy to install
Twin terminals for separate feeding with busbar and cables. Connection possible both from top and bottom side.

Test pushbutton and self test
White test pushbutton to verify the correct functioning of RCD. Orange test pushbutton to verify the correct functioning of AFDD. Internal self test is also continuously running in order to check the arc detection circuit.

LED for troubleshooting
LED troubleshooting indicator to monitor the operation of the AFDD and give indication of the cause of the trip. Possibility to recall in memory the last tripping due to arc fault and overvoltage.

Contact position indicator (CPI)
To always know the status of the contacts (red: closed; green: open) Independent from the toggle position



Anti counterfeiting
RFid tag containing a unique serial number assigned to ABB in order to authenticate the product.

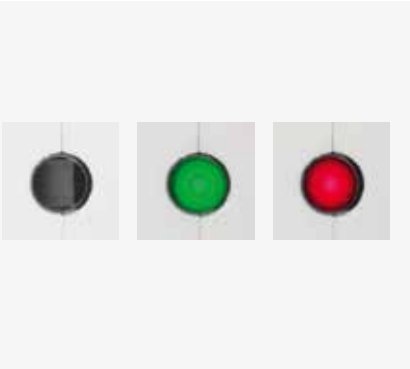
Laser printed information
Information on the device are laser printed to ensure readability over time.

Combination with auxiliary elements
Platform suitable for combination with System pro M compact® accessories. Combination possible also with auxiliary for bottom fitting.

The DS-ARC1 is the new 1P+N Arc Fault Detection Device (AFDD) with an integrated residual current circuit breaker with overcurrent protection (RCBO) in only three module width.
The series offers a complete protection against arc faults and overvoltage, reducing the risk of fire.
The integrated RCBO is adding protection against overcurrent and earth fault currents: compact solution for a complete protection of people and valuable assets.

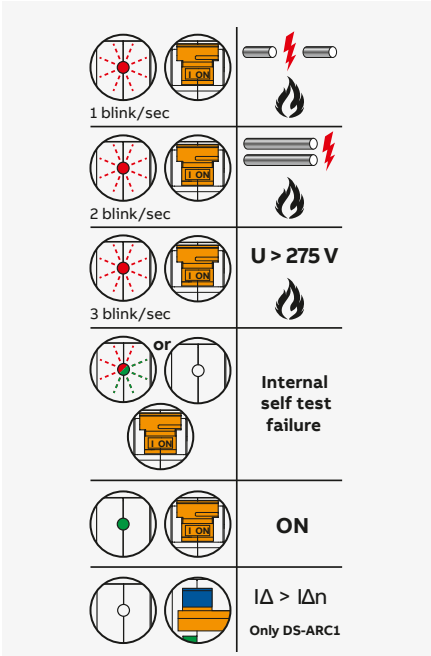


LED for easy troubleshooting
LED to monitor the correct working conditions of the device and have an easier troubleshooting in case of trip. Consequently the downtime for maintenance can be reduced.
– Toggle ON: GREEN LED
– Toggle OFF: LED OFF
– Different indications after the trip, after reclosing the toggle
– Possibility to recall in memory the last tripping due to arc fault and overvoltage



LED color	Blink/ sec	Signalling duration	Cause of trip
Green		Permanent	Manual trip, manual test , overcurrent
Red blinking	1	5 sec	Series arc
Red blinking	2	5 sec	Parallel arc
Red blinking	3	5 sec	Over voltage

In case of internal self test failure, the led can switch off or start blinking green/red alternatively.



Dedicated sticker for LED
Dedicated sticker that summarizes the LED function is present in addition to the instructions sheet.



Double slot terminals
Fail-safe terminals to avoid improper connection. Two slots of different dimensions (25 mm² and 10 mm²) available to allow the connection both with cables and busbars. Connection possible both from top and bottom side.Standard System pro M compact® clip ensures a stable fixing on DIN rail and easy and fast mounting and dismounting operations.



Compatibility with busbars
A quick and easy installation is possible in one step using dedicated busbars for DS-ARC1 installation no additional cables required for the wiring.



Earth fault indicator
Blue flag on the toggle to identify earth fault trips, making the troubleshooting easier while reducing the downtime for maintenance operations. In case of earth fault trip, after reclosing the toggle, the LED becomes green.

AFDD

DS-ARC1 arc fault detection device with integrated RCBO – technical data

				DS-ARC1	DS-ARC1 M
	Standards			IEC/EN 62606; IEC/EN 61009-1; IEC/EN 61009-2-1	
Electrical Functions	Type (wave form of the earth leakage sensed)			A	
	Number of poles			1P + N	
	Rated current I_n		A	6 ≤ In ≤ 20	
	Rated sensitivity IΔn		A	0.03	
	Rated voltage U_e		V	230 – 240	
	Insulation voltage U_i		V	500 V AC	
	Overvoltage category			III	
	Pollution degree			2	
	Operating voltage of RCD circuit test U_t		V	170 – 264	
	Threshold for protection against overvoltage		V	275	
	Rated frequency		Hz	50/60	
	Rated breaking capacity acc. to IEC/EN 61009-1	ultimate I_{cn}	A	6000	10000
	Rated breaking capacity acc. to IEC/EN 60947-2 (only referring to short circuit test)	ultimate I_{cu}	kA	7.5	10
		service I_{cs}	kA	6	7.5
	Rated residual breaking capacity $I_{\Delta m}$		A	6000	
	Rated impulse withstand voltage (1.2/50) U_{imp}		kV	4	
	Dielectric test voltage at ind. freq. for 1 min.		kV	2.5 (50/60 Hz, 1 min.)	
	Thermomagnetic release – characteristic	B: 3 I_n ≤ I_m ≤ 5 I_n		■	
		C: 5 I_n ≤ I_m ≤ 10 I_n		■	
	Energy limiting class			3	
Mechanical Main features	Housing			Insulation group I, RAL 7035	
	Toggle			Insulation group II, Orange RAL 2004, sealable in ON-OFF-positions	
	Contact position indication			Green/red window	
	Earth fault trip indication			Blue flag on toggle	
	Electrical life			10000 operations	
	Mechanical life			20000 operations	
	Protection degree acc. to EN 60529	housing		IP4X	
		terminals		IP2X	
	Shock resistance acc. to IEC/EN 60068-2-27			25 g – 2 shocks – 13 ms	
	Vibration resistance acc. to IEC/EN 60068-2-6			0.2 mm or 5 g – 20 cycles at 5 … 150 … 5 Hz	
	Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30		°C/ RH	28 cycles with 55°C/90 – 96 % and 25°C/95 – 100 %	
	Reference temperature for setting of thermal element		°C	30	
	Ambient temperature (with daily average ≤ +35 °C)		°C	-25 … +55	
	Storage temperature		°C	-40 … +70	
Assembly	Terminal type	top/bottom		failsafe bi-directional cylinder-lift terminal (shock-protected)	
	Terminal size for cables	top/bottom	mm^2	25/25	
	Terminal size for busbars	top/bottom	mm^2	10/10	
	Tightening torque	top/bottom	Nm	2.8	
	Stripping length of the cable		mm	12	
	Mounting			on DIN rail EN 60715 (35 mm) by means of mounting clip	
	Mounting position			any	
	Supply from			Top/bottom terminals	
Dimensions and weight	Dimensions (H x D x W)		mm	85 × 69 × 52.5	
	Weight		g	240	

AFDD

DS-ARC1 and DS-ARC1 M



DS-ARC1, 6 kA, B and C characteristics
Function: protection of end user single-phase circuits against short-circuit currents, overload, earth arc faults, parallel arc faults, series arc faults, earth faults currents.

Application: residential, commercial
Standard: IEC/EN 62606; IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 6 000 A

Number of poles	Rated residual currrent IΔm mA	Charac-teristics	Rated current I_n A	Bbn 8012542 EAN	Ordering details Type code	Order code	Weight 1 pcs kg	Pkg qty pce
1P+N	30	B	6	736516	DS-ARC1 B6 A30	2CSA255103R1065	0.240	1
			10	735618	DS-ARC1 B10 A30	2CSA255103R1105	0.240	1
			13	736417	DS-ARC1 B13 A30	2CSA255103R1135	0.240	1
			16	735519	DS-ARC1 B16 A30	2CSA255103R1165	0.240	1
			20	736318	DS-ARC1 B20 A30	2CSA255103R1205	0.240	1
1P+N	30	C	6	736110	DS-ARC1 C6 A30	2CSA255103R1064	0.240	1
			10	735212	DS-ARC1 C10 A30	2CSA255103R1104	0.240	1
			13	748311	DS-ARC1 C13 A30	2CSA255103R1134	0.240	1
			16	611110	DS-ARC1 C16 A30	2CSA255103R1164	0.240	1
			20	735113	DS-ARC1 C20 A30	2CSA255103R1204	0.240	1



DS-ARC1 M, 10 kA, B and C characteristics
Function: protection of end user single-phase circuits against short-circuit currents, overload, earth arc faults, parallel arc faults, series arc faults, earth faults currents.

Application: residential, commercial
Standard: IEC/EN 62606; IEC/EN 61009-1; IEC/EN 61009-2-1
Icn = 10 000 A

Number of poles	Rated residual currrent IΔm mA	Charac-teristics	Rated current I_n A	Bbn 8012542 EAN	Ordering details Type code	Order code	Weight 1 pcs kg	Pkg qty pce
1P+N	30	B	6	734710	DS-ARC1 M B6 A30	2CSA275103R1065	0.240	1
			10	733812	DS-ARC1 M B10 A30	2CSA275103R1105	0.240	1
			13	734611	DS-ARC1 M B13 A30	2CSA275103R1135	0.240	1
			16	733713	DS-ARC1 M B16 A30	2CSA275103R1165	0.240	1
			20	734512	DS-ARC1 M B20 A30	2CSA275103R1205	0.240	1
1P+N	30	C	6	734314	DS-ARC1 M C6 A30	2CSA275103R1064	0.240	1
			10	733416	DS-ARC1 M C10 A30	2CSA275103R1104	0.240	1
			13	748113	DS-ARC1 M C13 A30	2CSA275103R1134	0.240	1
			16	611011	DS-ARC1 M C16 A30	2CSA275103R1164	0.240	1
			20	748014	DS-ARC1 M C20 A30	2CSA275103R1204	0.240	1

Notes

Electrical installation solutions for buildings
Accessories for MCBs and RCDs

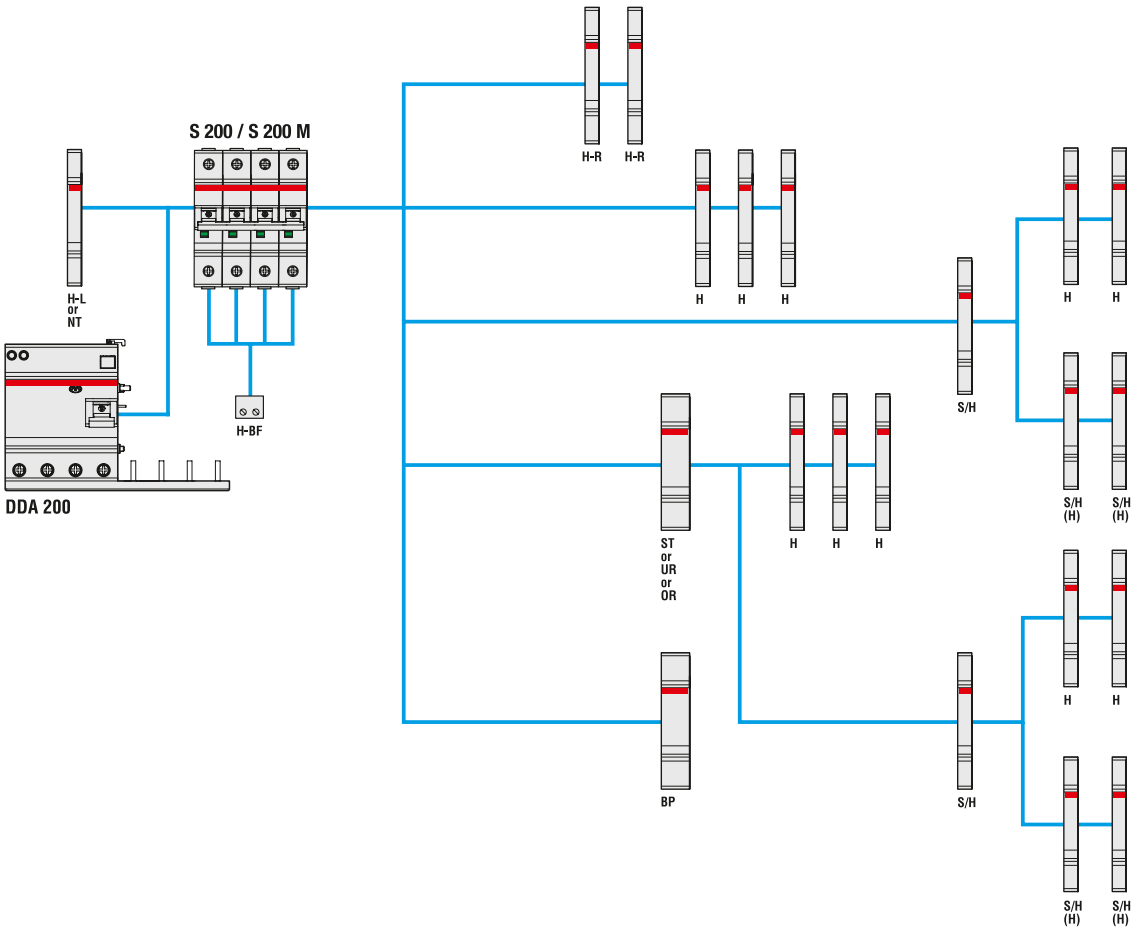
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Auxiliary elements and accessories for MCBs and RCDs

Selection tables

Combination of auxiliary elements with S200, S200M, S200P, S 300 P, DDA200 + S200 or DS200 (for S200 80-100A no combination with DDA)



H	Auxiliary contact	S2C-H6R
H-R	Auxiliary contact	S2C-H6-...R
S/H	Signal/Auxiliary contact	S2C-S/H6R
S/H (H)	Signal/Auxiliary contact used as auxiliary contact	S2C-S/H6R
ST	Shunt trip for S 200 MCB	S2C-A...
UR	Undervoltage release	S2C-UA
OR	Overvoltage release	S2C-OVP
H-L *	Auxiliary contact for S 200 MCBs to be mounted on the left	S2C-H...L
H-BF	Auxiliary contact for MCBs bottom fitting (1 for each pole of MCB)	S2C-H01/S2C-H10
BP	Mechanical tripping device	S2C-BP
NT	Switched neutral	S2C-Nt

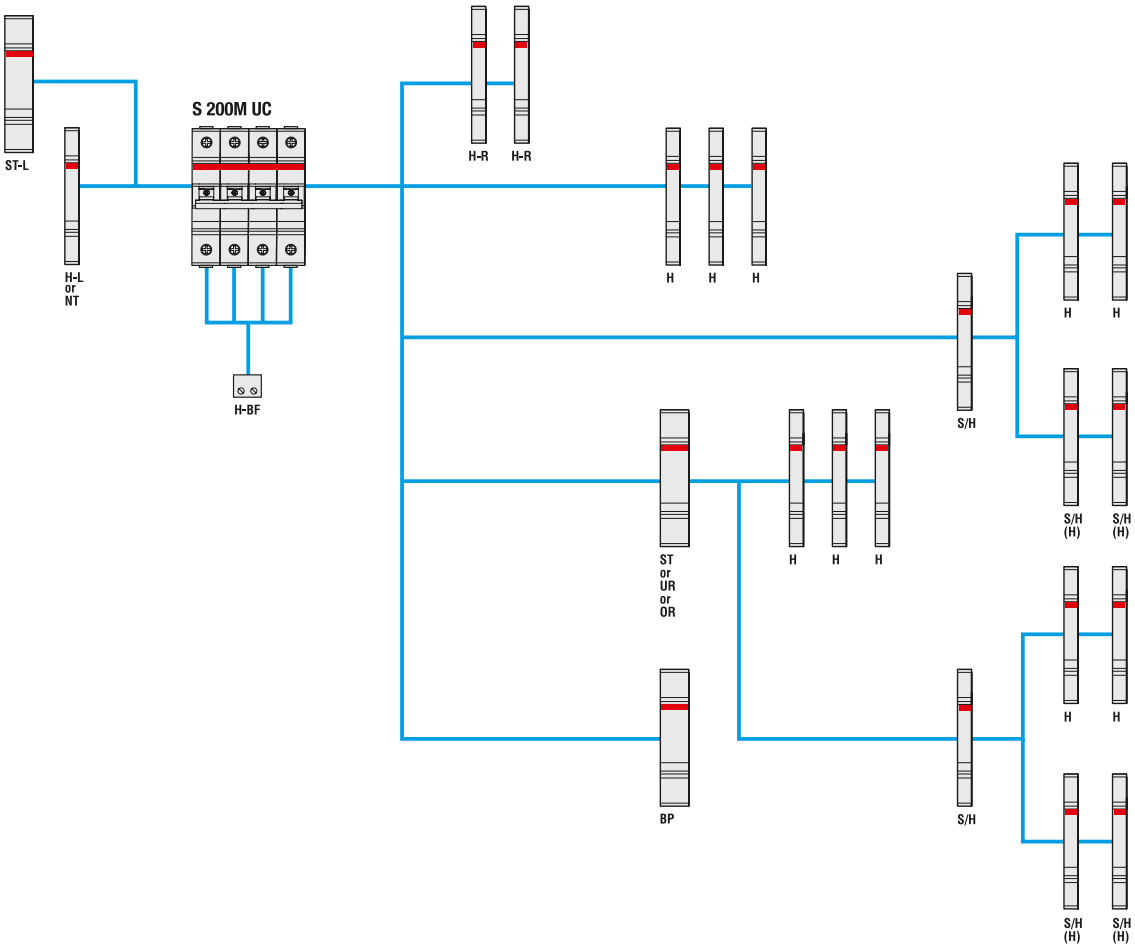
In case of using rotary operating mechanism S2C-DH (only right side mountable) the auxiliary devices left side and bottom fitting auxiliary contact could be used.

* H-L and H-BF cannot be coupled with DS200.

Auxiliary elements and accessories for MCBs and RCDs

Selection tables

Combination of auxiliary elements with S200MUC

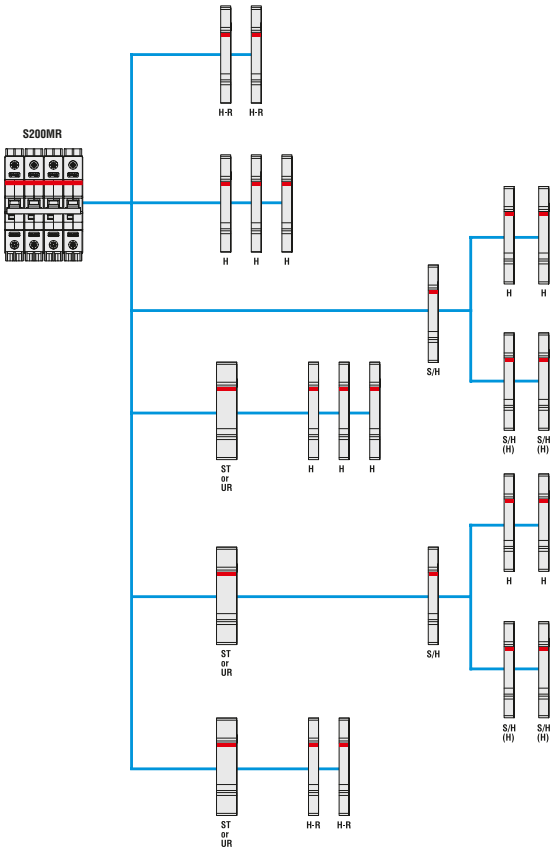


H	Auxiliary contact	S2C-H6R
H-R	Auxiliary contact	S2C-H6-...R
S/H	Signal/Auxiliary contact	S2C-S/H6R
S/H (H)	Signal/Auxiliary contact used as auxiliary contact	S2C-S/H6R
ST	Shunt trip for S 200 MCB	S2C-A...
ST-L	Shunt trip to be mounted on the left	S2C-A..L
UR	Undervoltage release	S2C-UA
OR	Overvoltage release	S2C-OVP
H-L	Auxiliary contact for S 200 MCBs to be mounted on the left	S2C-H...L
H-BF	Auxiliary contact for MCBs bottom fitting (1 for each pole of MCB)	S2C-H01/S2C-H10
BP	Mechanical tripping device	S2C-BP
NT	Switched neutral	S2C-Nt

Auxiliary elements and accessories for MCBs and RCDs

Selection tables

Combination of auxiliary elements with S200MR

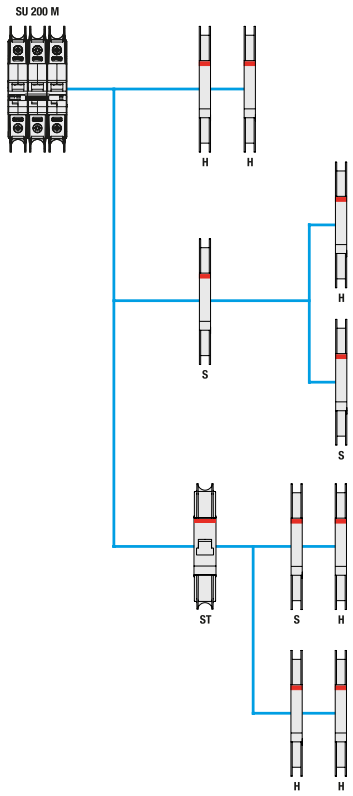


H	Auxiliary contact	S2C-H6R
H-R	Auxiliary contact	S2C-H6-...R
S/H	Signal/Auxiliary contact	S2C-S/H6R
S/H (H)	Signal/Auxiliary contact used as auxiliary contact	S2C-S/H6R
ST	Shunt trip	S2C-A...
UR	Undervoltage release	S2C-UA

Auxiliary elements and accessories for MCBs and RCDs

Selection tables

Combination of auxiliary elements with SU200M, S200UDC and SU200MR

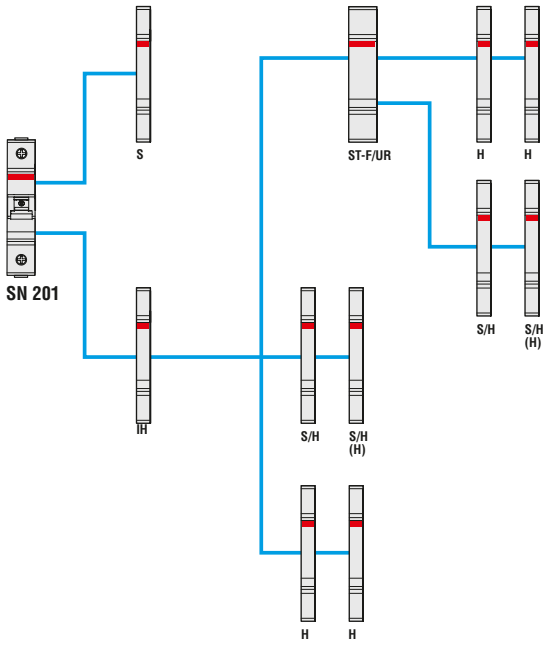


H	Auxiliary contact	S2C-H6RU
S	Signal contact	S2C-S6RU
ST	Shunt trip	S2C-A...U

Auxiliary elements and accessories for MCBs and RCDs

Selection tables

Combination of auxiliary elements with SN201

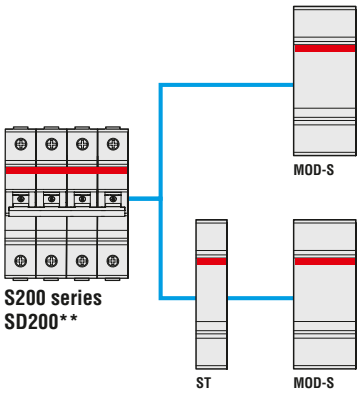


IH	Coupling interface/ auxiliary contact	SN201-IH
S	Signal contact	SN201-S
H	Auxiliary contact	S2C-H6R
S/H	Signal/auxiliary contact	S2C-S/H6R
S/H (H)	Signal/auxiliary contact used as auxiliary contact	S2C-S/H6R
ST-F	Shunt trip of F200 RCD	F2C-A
UR	Undervoltage release	S2C-UA

Auxiliary elements and accessories for MCBs and RCDs

Selection tables

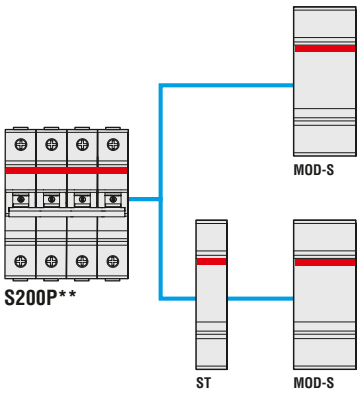
Combination of S200/SD200 with motor operating device



ST	Shunt trip for S 200 MCB	S2C-A...
MOD-S*	Motor operating device	S2C-CM...

* in case of using S 200 coupled with DDA 200, MOD-S doesn't operate in case of earth-leakage fault
** S200 series MCBs and SD200 switch disconnectors up to 3P or 2P+ST can be coupled with MOD-S

Combination of S200P, S 300 P with motor operating device



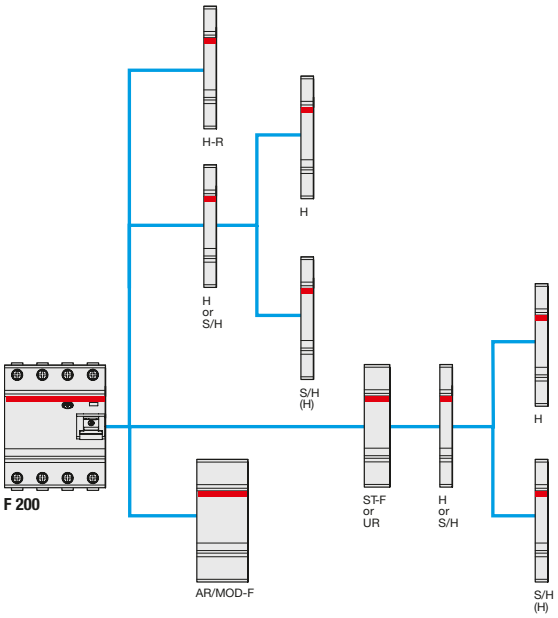
ST	Shunt trip for S 200 MCB S	S2C-A...
MOD-S*	Motor operating device	S2C-CM...

* in case of using S 200 coupled with DDA 200, MOD-S doesn't operate in case of earth-leakage fault
** S200P, S 300 P MCBs in all poles variants can be coupled with MOD-S and ST+MOD-S

Auxiliary elements and accessories for MCBs and RCDs

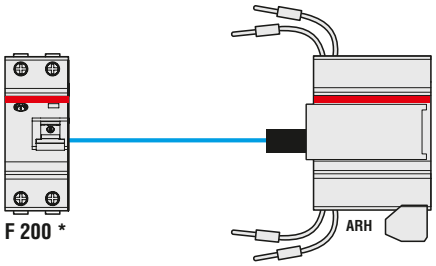
Selection tables

Combination of auxiliary elements with F200



H	Auxiliary contact	S2C-H6R
S/H	Signal/Auxiliary contact	S2C-S/H6R
S/H (H)	Signal/Auxiliary contact used as auxiliary contact	S2C-S/H6R
H-R	Auxiliary contact	S2C-H6-...R
UR	Undervoltage release	S2C-UA
OR	Overvoltage release	S2C-OVP
AR	Auto reclosing unit	F2C-ARI
MOD-F	Motor operating device	F2C-CM
ST-F	Shunt trip for F 200 RCCB	F2C-A

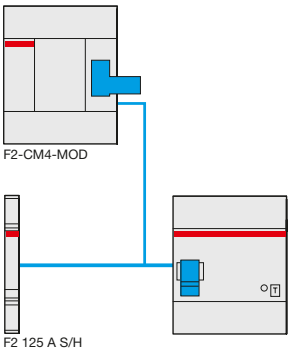
Combination of home automatic resetting unit with F200



ARH	Home automatic resetting unit	F2C-ARH

* F 202 30 mA or 100 mA (depending on ARH model), max 63 A

Combination of auxiliary elements with F204 125 A, F200 B high ratings

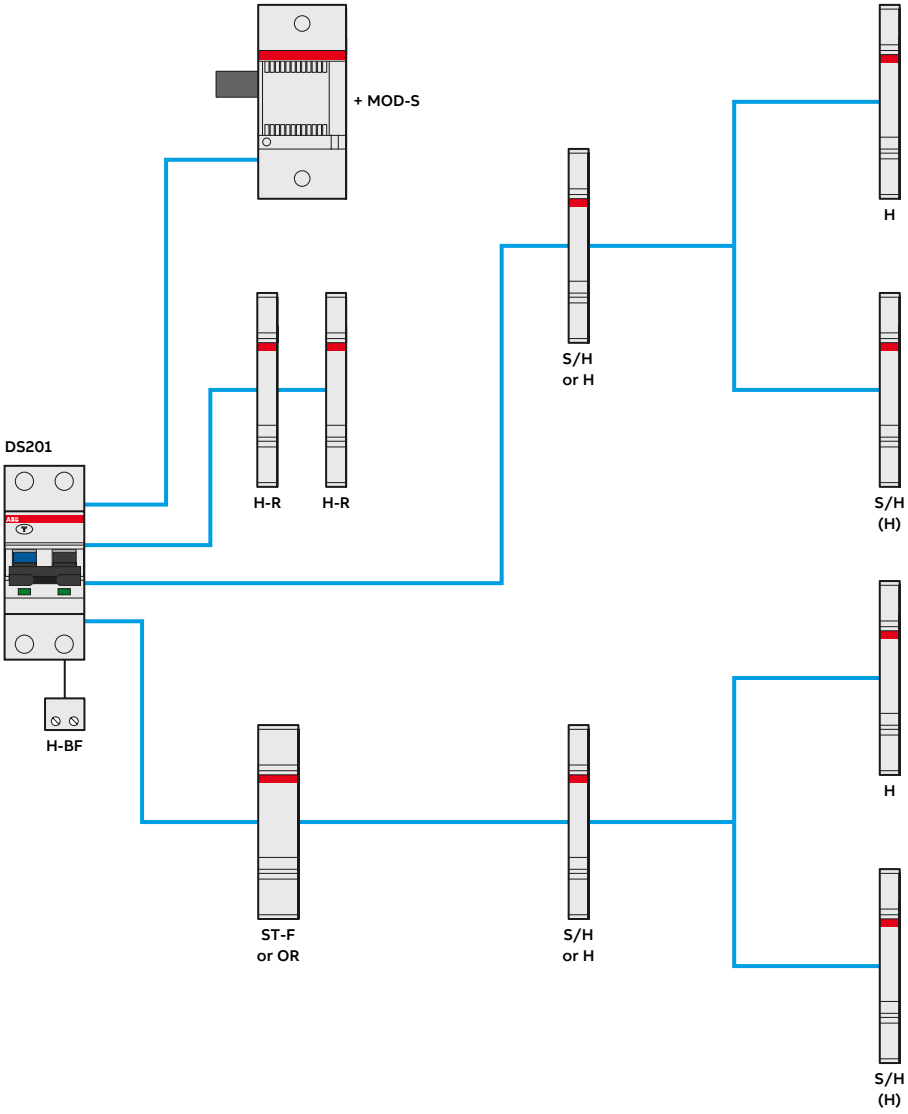


F2-125A-B-S/H	Signal/Auxiliary contact
F2-CM4-MOD	Motor operating device

Auxiliary elements and accessories for MCBs and RCDs

Selection tables

Combination of auxiliary elements with DS201, DS202C

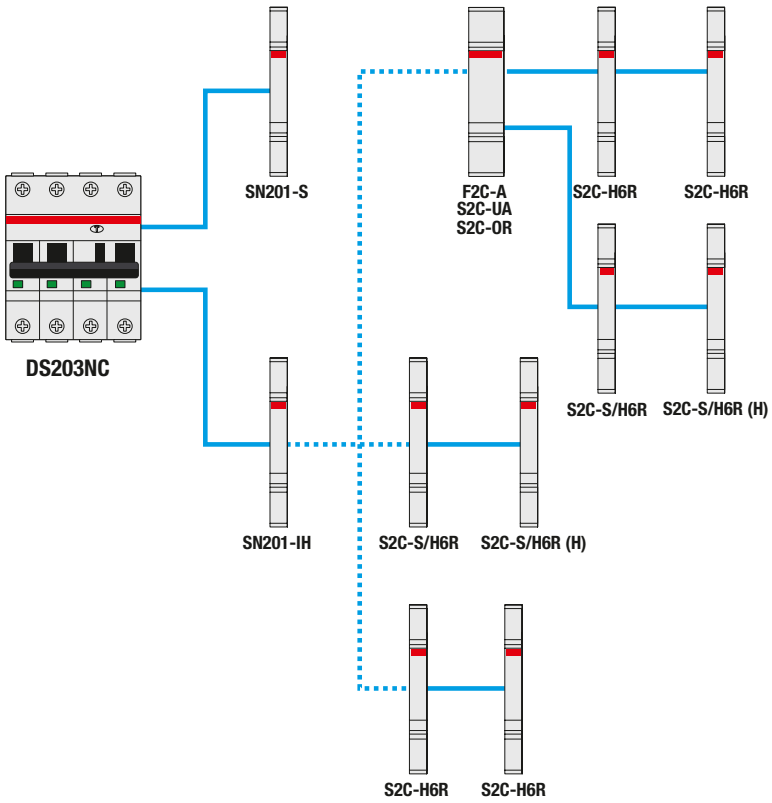


H	Auxiliary contact	S2C-H6R
H-R	Auxiliary contact	S2C-H6-xxR
S/H	Signal / auxiliary contact	S2C-S/H6R
S/H (H)	Signal / auxiliary contact used as auxiliary contact	S2C-S/H6R
ST-F	Shunt Trip	F2C-A
OR	Overvoltage release	S2C-OVP
H-BF	Auxiliary contact for bottom fitting (only DS201 (2019))	S2C-H01 / S2C-H10
MOD-S	Motor operating device (for DS201)	S2C-CM2/3
MOD-S	Motor operating device (for DS202C)	DS2C-CM

Auxiliary elements and accessories for MCBs and RCDs

Selection tables

Combination of auxiliary elements with DS203NC

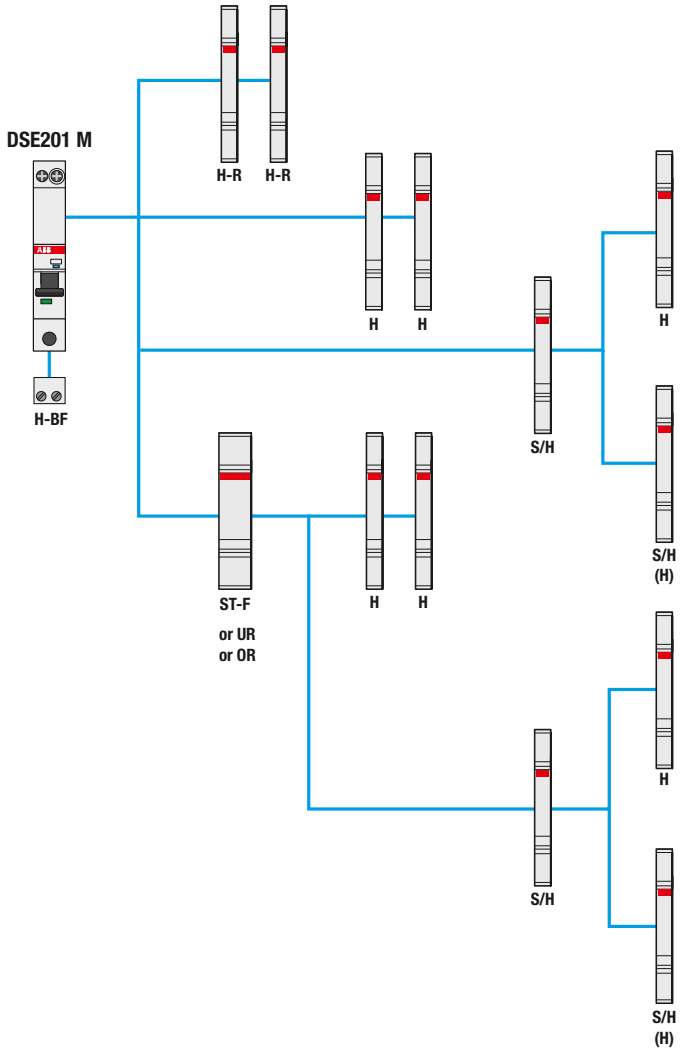


IH	coupling interface / auxiliary contact	SN201-IH
S	signal contact	SN201-S
H	auxiliary contact	S2C-H6R
S/H	signal/ auxiliary contact	S2C-S/H6R
S/H (H)	signal/ auxiliary contact used as auxiliary contact	S2C-S/H6R (H)
ST-F	shunt trip	F2C-A
UR	undervoltage release	S2C-UA
OR	overvoltage release	S2C-OR

Auxiliary elements and accessories for MCBs and RCDs

Selection tables

Combination of auxiliary elements with DSE201M

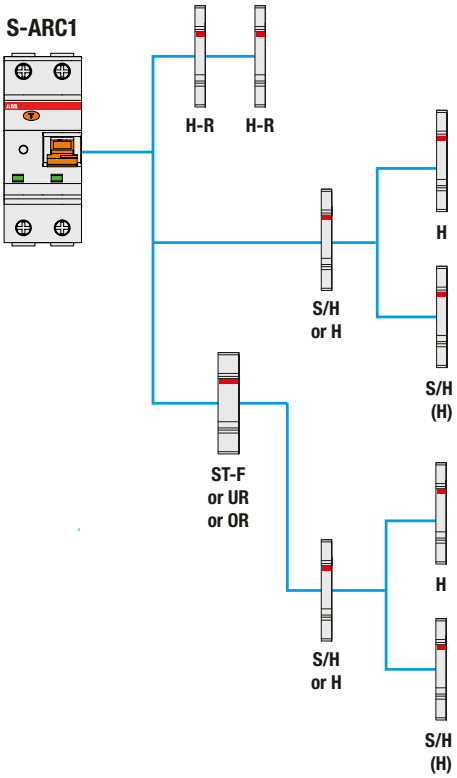


H	Auxiliary contact	S2C-H6R
H-R	Auxiliary contact	S2C-H6R / S2C-H6-xxR
S/H	Signal/Auxiliary contact	S2C-S/H6R
S/H (H)	Signal/Auxiliary contact used as auxiliary contact	S2C-S/H6R
ST-F	Shunt trip for RCD	F2C-A
UR	Undervoltage release	S2C-UA
OR	Overvoltage release	S2C-OVP
H-BF	Auxiliary contact for bottom fitting	S2C-H01 / S2C-H10

Auxiliary elements and accessories for AFDD

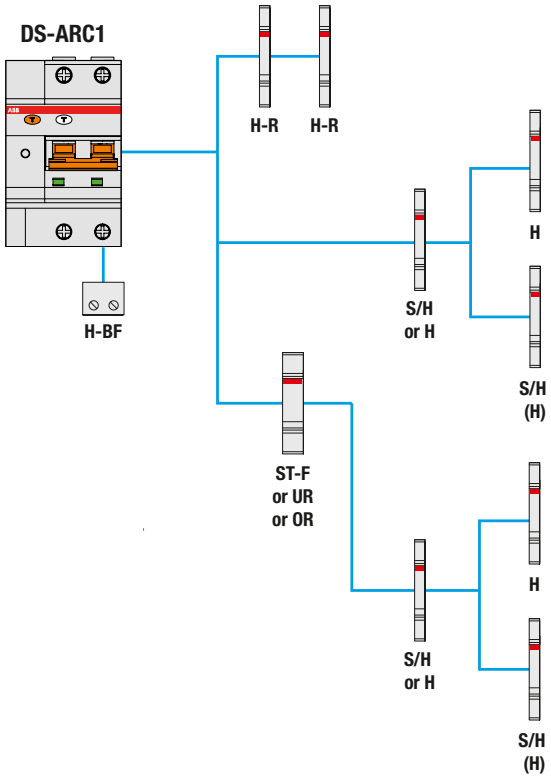
Selection tables

Combination of auxiliary elements with S-ARC1 and S-ARC1 M



H	Auxiliary contact	S2C-H6R
H-R	Auxiliary contact	S2C-H6R / S2C-H6-xxR
S/H	Signal/Auxiliary contact	S2C-S/H6R
S/H (H)	Signal/Auxiliary contact used as auxiliary contact	S2C-S/H6R
ST-F	Shunt trip for RCD	F2C-A
UR	Undervoltage release	S2C-UA
OR	Overvoltage release	S2C-OVP

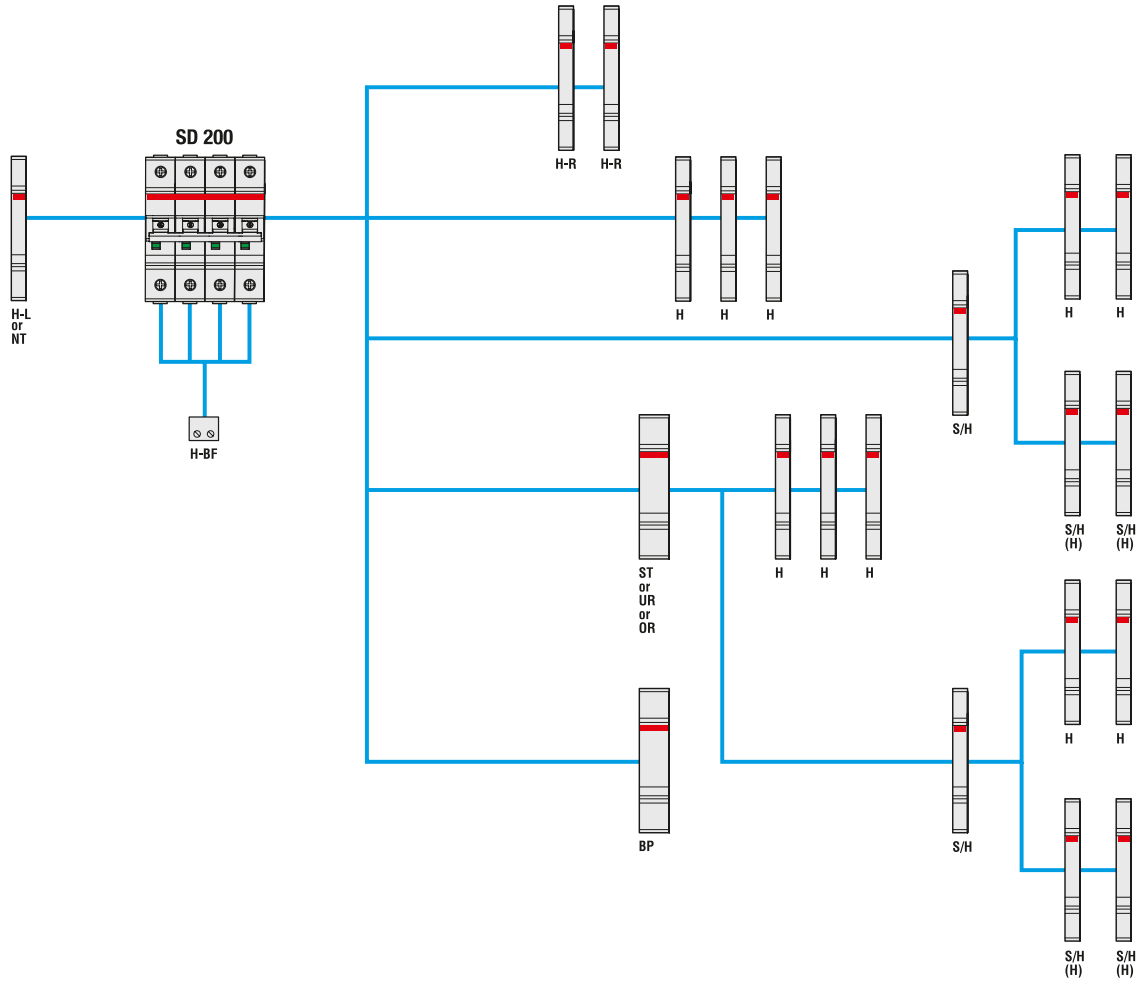
Combination of auxiliary elements with DS-ARC1



H	Auxiliary contact	S2C-H6R
H-R	Auxiliary contact	S2C-H6R / S2C-H6-xxR
S/H	Signal/Auxiliary contact	S2C-S/H6R
S/H (H)	Signal/Auxiliary contact used as auxiliary contact	S2C-S/H6R
ST-F	Shunt trip for RCD	F2C-A
UR	Undervoltage release	S2C-UA
OR	Overvoltage release	S2C-OVP
H-BF	Auxiliary contact for bottom fitting	S2C-H01/ S2C-H10

Auxiliary elements and accessories for Switch Disconnectors SD 200

Selection tables



H	Auxiliary contact	S2C-H6R
H-R	Auxiliary contact	S2C-H6-...R
S/H	Signal/Auxiliary contact	S2C-S/H6R
S/H (H)	Signal/Auxiliary contact used as auxiliary contact	S2C-S/H6R
NT	Switched neutral	S2C-Nt
OR	Overvoltage release	S2C-OVP
BP	Mechanical tripping device	S2C-BP
ST	Shunt trip	S2C-A...
UR	Undervoltage release	S2C-UA

Auxiliary elements for

MCBs S 200, S 300 P, SN 201, RCDs F 200, DS 200, DS201-DS202C, DS203NC, DSE201 M, AFDD S-ARC1 and Switch disconnectors SD 200 series



Auxiliary elements

Auxiliary contact and signal/auxiliary contact		
		S2C-S/H6R, S2C-H6R, S2C-H11L, S2C-H20L and S2C-H02L
Utilization category		AC14 1A/400V, 2A/230V - DC12 1A/220V, 1,5A/110V - DC13 2A/60V, 4A/24V
Conventional free air thermal current	A	10
Min. operational current/voltage*		10 mA at 12 V; 5 mA at 24 V
Rated conditional short-circuit current	V	230 V AC 1,000 A with S201 K4
Overvoltage category		III
Rated impuls withstand voltage (1.2/50µs)	kV	4
Cross-section of conductors	mm^2	0.75…2.5 (up to 2 x 1.5 mm2 for S2C-H11L, S2C-H20L and S2C-H02L)
Tightening torque	Nm	1.2 (max. 0.8 for S2C-H11L, S2C-H20L and S2C-H02L)
Contact stability in vibration test according to IEC/EN 60 068-2-6		5g, 20 sweep cycles 5…150…5 Hz at 24 V AC/DC, 5 mA automatic reclosing < 10 ms
Mechanical service life		10000 operations
Dimensions (H x D x W)	mm	85 x 69 x 8.8

Auxiliary contact and signal/auxiliary contact		
		S2C-H6-11R, S2C-H6-20R, S2C-H6-02R
Utilization category		AC14: 1A/400V, 2A/230V DC12/DC13: 1A/50V, 2A/30V
Conventional free air thermal current	A	10
Min. rated operational current/ voltage*		10 mA at 12 V; 5 mA at 24 V
Rated conditional short-circuit current	V	230 V AC 1,000 A with S201 K4
Overvoltage category		III
Rated impuls withstand voltage (1.2/50µs)	kV	4
Cross-section of conductors	mm^2	0.75…2.5
Tightening torque	Nm	1.2
Contact stability in vibration test according to IEC/EN 60068-2-6		5g. 20 sweep cycles 5…150…5 Hz at 24 V AC/DC. 5mA automatic reclosing < 10 ms
Mechanical service life		10000 operations
Dimensions (H x D x W)	mm	85 x 69 x 8.8

* ensures safe contacting without current interruption by pollution layer

Auxiliary elements for

MCBs S 200, S 300 P, SN 201, RCDs F 200, DS 200, DS201-DS202C, DS203NC, DSE201 M, AFDD S-ARC1 and Switch disconnectors SD 200 series



S2C-S/H6R



S2C-H6-...

Signal/auxiliary contacts
Signal contacts indicate if a device tripped due to a failure (overcurrent/short-circuit for MCBs and RCBOs; earth fault for RCCBs and RCBOs). Auxiliary contacts indicate the position of the contacts, independent if a failure occurred or the device was operated manually.

S2C-S/H6R: choice through a selector between signal and auxiliary contact.

S2C-H6R and S2C-HxxR: Auxiliary contacts with contact configuration according the following table. All right-side mounted contacts are suitable for MCBs, RCDs, AFDD and switch disconnectors SD200 according the “Selection tables” which are displayed in the beginning of chapter 4.

S2C-HxxL: Auxiliary contacts with contact configuration according the following table. These contacts are left-side mounted and fit to S200 MCBs and switch disconnertors SD200 according the “Selection tables” which are displayed in the beginning of chapter 4. Especially when using a motor operating device this is a possibility to add a contact as the right side mounted ones do not fit within this combination.

S2C-Hxx: Unique bottom-fitting contact for the S200 compact range, DS201 (2019), DSE201 M and SD200 switch disconnectors. Simple and space-saving solution. Also intended for retrofitting.

Description	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Signal contact/ auxiliary switch 1CO	563819	S2C-S/H6R	2CDS200922R0001		0.04	1
Auxiliary contact 1CO	563826	S2C-H6R	2CDS200912R0001		0.04	1
Auxiliary contact 1NO/1NC	697941	S2C-H6-11R	2CDS200946R0001		0.04	1
Auxiliary contact 2NO	697958	S2C-H6-20R	2CDS200946R0002		0.04	1
Auxiliary contact 2NC	697965	S2C-H6-02R	2CDS200946R0003		0.04	1

Auxiliary contacts mounting on the left side

Description	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Auxiliary contact 1 NO/1NC	648820	S2C-H11L	2CDS200936R0001		0.04	1
Auxiliary contact 2 NO	648837	S2C-H20L	2CDS200936R0002		0.04	1
Auxiliary contact 2 NC	648844	S2C-H02L	2CDS200936R0003		0.04	1

Auxiliary elements for

MCBs S 200, S 300 P, SN 201, RCDs F 200, DS 200, DS201-DS202C, DS203NC, DSE201M, AFDD S-ARC1 and Switch disconnectors SD 200 series



S 2C-H01

Bottom-fitting auxiliary contact		
		S2C-H10 and S2C-H01
Conventional free air thermal current	A	7.5
Utilization category		AC14 2A/230V - DC 12 identical DC13 1A /50V, 2A/30V
Min. operational current/voltage*	V	10 mA at 12 V AC/DC
Rated conditional short-circuit current		230 VAC 1000 A, fault protection with S 201-K2 or Z2
Tightening torque	Nm	0.5
Cross-section of conductors	mm^2	0.75 to 2.5
Mechanical service life		4 000 operations
Dimensions (HxDxW)		19 x 17 x 17.5

* ensures safe contacting without current interruption by pollution layer

Bottom-fitting auxiliary contacts for S 200, S 200M, S 200 P, S 200 S, SD 200, DS201 (2019), DSE201M, DS-ARC1

Description	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
1 NC	065108	22C-H01	2CDS200970R0031		0.01	1
1 NO	065139	S 2C-H10	2CDS200970R0032		0.01	1

packing unit 15 parts						
Description	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
1 NC	065160	S 2C-H01 15x	2CDS200970R0041		0.01	15
1 NO	065191	S 2C-H10 15x	2CDS200970R0042		0.01	15



HKB

Auxiliary contact bridge for bottom-fitting auxiliary contacts

Wire jumper for integrated auxiliary contact S2C-H01/S2C-H10 for series connections (HKB) or parallel connections (HKB1).

Description	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
1/2 mod.	523134	HKB	GHV0360504R0100		0.001	1000
1 mod.	524209	HKB 1	GHV0360504R0101		0.001	1000

Signal and auxiliary contacts			
		SN201-S	SN201-IH
Terminals	mm^2	2x1,5	
Tightening torque	N	1.2	
Dimensions	mm	H: 85 x D: 68 x W: 8.9	H: 85 x D: 68,7 x W: 8.9
Rated voltage	V	230	
Rated current	A	2	

Auxiliary elements for

MCBs S 200, SN 201, RCDs F 200, DS 200, DS201-DS202C, DS203NC, DSE201 M, AFDD S-ARC1 and Switch disconnectors SD 200 series



SN201-S

Utilization category / contact capacity				
	SN201-S, SN201-IH			
AC14	Ue	V	400	230
	Ie	A	1	2
DC12	Ue	V	220	110
	Ie	A	1	1,5
DC13	Ue	V	60	24
	Ie	A	2	4

Signal contact for SN201 MCBs and DS203NC RCBOs

Function: indication of the device contact positions only after the automatic release of the MCBs/RCBOs due to overcurrent.



SN201-IH

Description	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Signal contact 1CO	104957	SN201-S	2CSS200924R0001		0.040	1

Auxiliary contact / interface module for SN201 MCBs and DS203NC RCBOs

Function: indication of the device contact positions. The auxiliary contact can be used as an interface module between SN201, DS203NC and other compact auxiliary elements.

Description	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Interface module/Aux. Contact 1CO	104858	SN201-IH	2CSS200923R0001		0.050	1

Signal and auxiliary contacts for F 200 125A and F 200 B			
			F2 125A-S/H
Rated current	AC	A	6
	DC	A	1
Min. rated voltage Ub min	AC	V	230
	DC	V	110
Connection cross section		mm^2	1...1.5
Tightening torque		Nm	0.8
Dimensions (H x D x W)		mm	85 x 69 x 8.8

Auxiliary/Signal contact for F 200 125A and F 200 B

Function: choice through a selector between indication of the position of the device's contacts and signalling of the earth fault. Suitable for RCCBs F 200 125A and F 200 B series



F2-125A-B-S/H

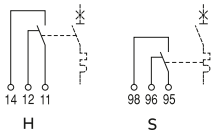
Description	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Auxiliary/Signal contact 1CO+1NC	600527	F2-125A-B-S/H	2CSF200922R0001		0.04	1

Clamping cover for F200 125A-F200 B type

Description	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	999638	CPV B	2CSF200988R0001			1

Auxiliary elements for
S200C Compact MCB





G2C: Auxiliary and signal contact
Auxiliary (H):
Provides the status of the protection device, OPEN/CLOSED.

Auxiliary or signal (S/H):
This device can act as an auxiliary contact (function H) or as a signal contact (function S).
The user can change the function at the moment of installation.
Used as signal contact (function S) it provides the information about the automatic tripping of the protection devices: overload or short-circuit for MCBs, earth leakage tripping for RCDs.

- Test button on the front to simulate the function (acting as a function H or S)
- Reset button for the contacts (function S)
- Tripping signal on the front (function S)
- Version with golden contacts, available for low current as well as low voltage applications.

Mounting:
on the left or right, up to 4 G2C units (On S203C accepted only on the left)

Performances

Product standard	IEC/EN 62019
Change-over contacts	1
Rated current I_n (A)	5
Rated voltage AC U_n (V)	240
Minimum application voltage	24 V AC/DC; 12 V AC/DC for version with golden contacts
Minimum application current	10 mA AC; 200 mA DC -- 2 mA AC; 25 mA DC for version with golden contacts
Electrical endurance (operations)	10000
Terminal capacity flexible/rigid cable (mm^2)	0.75...2.5 / 1...2.5
Terminal capacity for two rigid cables (mm^2)	2 × 1.5
Dimension [D×W×H] (mm)	69 × 8.7 × 92
Net weight (g)	70
Tightening torque (Nm)	0.5

Ordering code

Type	Bbn 4053546 EAN	Order details Type code	Order code	Weight 1 piece kg	Pack unit pc.
Auxiliary (H)	046427	G2C-H6 L+R	2CDS200931R0001	0.07	1
Auxiliary or signal (S/H)	046434	G2C-S/H6 L+R	2CDS200932R0001	0.07	1
Auxiliary or signal golden contact (S/H G)	046441	G2C-S/H6 L+R KL	2CDS200932R0011	0.07	1

Auxiliary elements for

MCBs S 200, S 300 P, SN 201, RCDs F 200, DS 200, DS201-DS202C, DS203NC, DSE201M, AFDD S-ARC1 and Switch disconnectors SD 200 series



S2C-A

Shunt trip for S 200 MCBs								
			S2C-A1					
Rated voltage	AC	V	12…60					
	DC	V	12…60					
Max release duration		ms	<10 @ Rated voltage					
Min. release voltage	AC	V	8.4					
	DC	V	10					
Power consumption	Ub	V	12 VDC	12 VAC	24 VDC	24 VAC	60 VDC	60 VAC
	Ib_{max}/A	A	3.4	3.4	6.5	6.5	16.5	16.5
Coil resistance		Ω	3.7					
Terminals			Fale-safe bi-directional cylinder-lift-terminal					
Tightening torque		Nm	2.8					
Dimensions (H x D x W)		mm	85 x 69 x 17.5					
			S2C-A2					
Rated voltage	AC	V	110…415					
	DC	V	110…250					
Max release duration		ms	<10 @ Rated voltage					
Min. release voltage	AC	V	8.4					
	DC	V	10.0					
Power consumption	Ub	V	110 VDC	110 VAC	220 VDC	230 VAC	415 VAC	
	Ib_{max}/A	A	0.5	0.5	1.1	1.1	2.1	
Coil resistance		Ω	225					
Terminals			Fale-safe bi-directional cylinder-lift-terminal					
Tightening torque		Nm	2.8					
Dimensions (H x D x W)		mm	85 x 69 x 17.5					

Shunt trips

Function: remote opening of the device when a voltage is applied. Suitable for MCBs S 200 series, RCBOs DS 200 series, SD 200 switch disconnectors series.

Shunt trips use a coil like MCBs for tripping. To trip a shunt it is necessary to choose the right voltage and make sure the corresponding Ibmax (as mentioned in the table above) is provided by the power supply used. If the power supply can provide higher currents the shunt trip will reduce the current to Ibmax due to its internal resistance.

As soon as the shunt tripped, the contact inside is open – the electrical circuit is disconnected even if the shunt trip is still powered on. The free-tripping mechanism of the shunt trip allows a restart of the MCB only after the shunt trip gets no external release signal anymore.

Rated voltage	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
AC/DC 12…60 V	570992	S2C-A1	2CDS200909R0001		0.15	1
AC 110…415 V/DC110…250 V	571005	S2C-A2	2CDS200909R0002		0.15	1

Auxiliary elements for

MCBs S 200, SN 201, RCDs F 200, DS 200, DS201-DS202C, DS203NC, DSE201 M, AFDD S-ARC1 and Switch disconnectors SD 200 series



F2C-A

Shunt trip for F 200 RCCBs							
			F2C-A1				
Rated voltage	AC	V	12...60				
	DC	V	12...60				
Max release duration		ms	10				
Min. release voltage	AC	V	6				
	DC	V	4.5				
Consumption on release	Ub	V	12 DC	12 AC	24 DC	60 DC	60 AC
	Ib max	A	0.88	0.65	1.58	5.8	5
Coil resistance		Ω	5.5				
Terminals		mm^2	2x1.5				
Tightening torque		Nm	0.2				
Dimensions (H x D x W)		mm	85 x 69 x 17.5				
			F2C-A2				
Rated voltage	AC	V	110...415				
	DC	V	110...250				
Max release duration		ms	10				
Min. release voltage	AC	V	75				
	DC	V	55				
Consumption on release	Ub	V	110 DC	110 AC	250 DC	415 AC	
	Ib max	A	0.05	0.03	0.1	0.16	
Coil resistance		Ω	1355				
Terminals		mm^2	2x1.5				
Tightening torque		Nm	0.2				
Dimensions (H x D x W)		mm	85 x 69 x 17.5				

Function: remote opening of the device when a voltage is applied. Suitable for RCCBs F 200 series and RCBOs DS201, DS201 (2019), DS202C, DSE201 M, AFDD S-ARC1.
It can be used with MCBs SN201 and RCBOs DS203NC series by means of SN201-IH interface module.

Rated voltage	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
AC/DC 12...60V	974901	F2C-A1	2CSS200933R0011		0.15	1
AC 110...415V / DC 110...250V	975007	F2C-A2	2CSS200933R0012		0.15	1

Auxiliary elements for

MCBs S 200, S 300 P, SN 201, RCDs F 200, DS 200, DS201-DS202C, DS203NC, DSE201 M, AFDD S-ARC1 and Switch disconnectors SD 200 series



S2C-UA

Undervoltage release							
			S2C-UA 12 DC	S2C-UA 24 AC	S2C-UA 24 DC	S2C-UA 48 AC	S2C-UA 48 DC
Standards			IEC/EN 60947-1				
Rated voltage	AC	V		24		48	
	DC	V	12		24		48
Frequency		Hz	50…60				
Release trip		V	0.35 Un ≥ V ≥ 0.7 Un				
Terminals		mm²	2x1.5				
Consumption		VA	2.2	3.6	2	3.6	2.1
Resistance to corrosion		°C/RH	constant atmosphere: 23/83 - 40/93 - 55/20; variable atmosphere: 25/95 - 40/93				
Protection degree			IPXXB/IP2X				
Tightening torque		Nm	0.4				
Dimensions (H x D x W)		mm	85 x 69 x 17.5				
			S2C-UA 110 AC	S2C-UA 110 DC	S2C-UA 230 AC	S2C-UA 230 DC	S2C-UA 400 AC
Standards			IEC/EN 60947-1				
Rated voltage	AC	V	110		230		400
	DC	V		110		230	
Frequency		Hz	50…60				
Release trip		V	0.35 Un M V M 0.7 Un				
Terminals		mm²	2x1.5				
Consumption		VA	3.5	2.2	3.7	2.3	2.4
Resistance to corrosion		°C/RH	constant atmosphere: 23/83 - 40/93 - 55/20; variable atmosphere: 25/95 - 40/93				
Protection degree			IPXXB/IP2X				
Tightening torque		Nm	0.4				
Dimensions (H x D x W)		mm	85 x 69 x 17.5				

Undervoltage releases

Function: protection of the load in the event of a voltage drop (between 70% and 35% of its rated value); positive safety (device's tripping when the voltage is disconnected) emergency stop by means of a button. Suitable for MCBs S 200 series, RCCBs F200 series and RCBOs DS202C, DSE201 M, AFDD S-ARC1 series, DS 200 series, SD 200 switch disconnectors series. It can be used with MCBs SN201 and RCBOs DS203NC series by means of SN201-IH interface module.

Rated voltage	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
12VDC	839705	S2C-UA 12 DC	2CSS200911R0001		0.09	1
24VAC	839804	S2C-UA 24 AC	2CSS200911R0002		0.09	1
24VDC	896401	S2C-UA 24 DC	2CSS200911R0007		0.09	1
48VAC	839903	S2C-UA 48 AC	2CSS200911R0003		0.09	1
48VDC	896500	S2C-UA 48 DC	2CSS200911R0008		0.09	1
110VAC	840008	S2C-UA 110 AC	2CSS200911R0004		0.09	1
110VDC	896609	S2C-UA 110 DC	2CSS200911R0009		0.09	1
230VAC	840107	S2C-UA 230 AC	2CSS200911R0005		0.09	1
230VDC	896708	S2C-UA 230 DC	2CSS200911R0010		0.09	1
400VAC	840206	S2C-UA 400 AC	2CSS200911R0006		0.09	1

Auxiliary elements for

MCBs S 200, S 300 P, SN 201, RCDs F 200, DS 200, DS201-DS202C, DS203NC, DSE201M, AFDD S-ARC1 and Switch disconnectors SD 200 series



S2C-OVP

Overvoltage release				
			S2C - OVP2	S2C - OVP1
Rated voltage		VAC	230	
Rated frequency		Hz	50	
Max non-tripping voltage AC		V	253	
Max tripping voltage AC		V	290	275
Tripping time	@ 290V AC	s	t<1	
	@ 380V AC	s	t<0.1	
Peak current	@ 315V AC	A	1	
	@ 440V AC	A	1.8	
Max duration of impulse command		ms	7	
Operating temperature		°C	-5....+40	

Overvoltage release

Function: monitoring voltage between the neutral and phase; when an overvoltage reaches the threshold value, the OVP device causes the tripping of the associated MCB or RCCB. Suitable for MCBs of the S200 series up to 63 A, and RCCBs of the F200 series up to 100 A and RCBOs DS201, DS201 (2019), DS202C, DSE201M, AFDD S-ARC1 series, Suitable for SD 200 switch disconnectors series. It can be used with MCBs SN201 and RCBOs DS203NC series by means of SN201-IH interface module.

Description	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Overvoltage release (max tripping voltage AC: 275V)	748137	S2C-OVP1	2CSS200910R0005		0.100	1/5
Overvoltage release (max tripping voltage AC: 290V)	952039	S2C-OVP2	2CSS200993R0005		0.100	1/5



S2C-Nt

Hand operated neutral left side mounted		
		S2C-Nt
Rated current	A	max. 40
Terminal	mm^2	10; cage terminal
Tightening torque	Nm	1.2
Dimensions (H x D x W)	mm	85 x 69 x 8.8

Hand operated neutral

The hand operated neutral has to be mounted to the left side of the MCB and be snaped on the DIN rail. It is used for measuring duties where the neutral conductor must be in the open position. Due to the special design of the handle - when switching ON the MCB – the neutral will make before the MCB is closed. Suitable for SD 200 switch disconnectors series.
The S2C - Nt is not to switch with a tool (screw driver).

Description	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Max 40A	647625	S2C-Nt	2CDS200918R0001		0.06	1

Auxiliary elements for

MCBs S 200, SN 201, RCDs F 200, DS 200, DS201-DS202C, DS203NC, DSE201 M, AFDD S-ARC1 and Switch disconnectors SD 200 series



S 2C-S6R U



S 2C-H6R U

Auxiliary contact and signal contact		
		S2C-H6R U, S2C-S6RU
Rating according UL 489 / CSA22-2 No.5		1A / 480 VAC 2A / 277 VAC 1.5 A / 125 VDC 2A / 60 VDC 4 A / 24 VDC
Conventional free air thermal current	A	10
Min. operational current/voltage*		10 mA at 12 V; 5 mA at 24 V
Rated conditional short-circuit current	V	230 V AC 1,000 A with S201 K4
Overvoltage category		III
Rated impuls withstand voltage (1.2/50µs)	kV	4
Cross section of conductors	mm^2	0.75…2.5
Tightening torque	Nm	1.2
Contact stability in vibration test according to IEC/EN60068-2-6		5g, 20 sweep cycles 5…150…5 Hz according to DIN IEC 68-2-6 at 24 V AC/DC, 5 mA automatic reclosing < 10 ms
Mechanical service life		10000 operations
Dimensions (H x D x W)	mm	100 x 69 x 8.8

* ensures safe contacting without current interruption by pollution layer.

Accessories for S 200 U/S 200 UP/S 200 UDC

Auxiliary contact (switch)						
Description	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
only for range U/UP/UDC	615617	S 2C-H6R U	2CDS200914R0001		0.035	1

Signal contact (bell alarm)						
Description	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
only for range U/UP/UDC	615624	S 2C-S6R U	2CDS200924R0001		0.035	1

Auxiliary elements for

MCBs S 200, SN 201, RCDs F 200, DS 200, DS201-DS202C, DS203NC, DSE201 M, AFDD S-ARC1 and Switch disconnectors SD 200 series



S 2C-A1 U

Shunt trip								
			S2C-A1 U					
Rated voltage	AC	V	12…60					
	DC	V	12…60					
Max release duration		ms	<10					
Min. release voltage	AC	V	8.4					
	DC	V	10					
Power consumption	Ub	V	12 VDC	12 VAC	24 VDC	24 VAC	60 VDC	60 VAC
	Ib_{max}/A	A	3.4	3.4	6.5	6.5	16.5	16.5
Coil resistance		Ω	3.7					
Terminals			Fale-safe bi-directional cylinder-lift-terminal					
Tightening torque		Nm	2.8					
Dimensions (H x D x W)		mm	100 x 69 x 17.5					
			S2C-A2 U					
Rated voltage	AC	V	110…415					
	DC	V	110…250					
Max release duration		ms	<10					
Min. release voltage	AC	V	8.4					
	DC	V	10.0					
Power consumption	Ub	V	110 VDC	110 VAC	220 VDC	230 VAC	415 VAC	
	Ib_{max}/A	A	0.5	0.5	1.1	1.1	2.1	
Coil resistance		Ω	225					
Terminals			Fale-safe bi-directional cylinder-lift-terminal					
Tightening torque		Nm	2.8					
Dimensions (H x D x W)		mm	111 x 69 x 17.5					

Shunt trip only for range U/UP/UDC

Description	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
12 - 60 V AC/DC	64472 3	S 2C-A1 U	2CDS200908R0001		0.15	1
110-415 V AC,110-250V DC	64473 0	S 2C-A2 U	2CDS200908R0002		0.15	1

Auxiliary elements for
MCBs, RCDs and Switch Disconnectors



S 2C-TC20 U

IP20 Terminal cover						
Description	**Bbn 4016779**	**Order details**		**Price 1 piece**	**Weight 1 piece**	**Pack unit**
	EAN	**Type code**	**Order code**		**kg**	**pc.**
Only for range U/UP/UDC	877565	S 2C-TC20 U	2CDS200917R0001		0.0002	20

Mechanical tripping device

Function: it causes the automatic tripping of the circuit-breakers which it is associated to, when the panel or the door of the electrical switchboard are opened or removed.
Suitable for MCBs S 200 series (on both sides of the devices) and for DS 200 (only on the right side, because on the left side there's RCD-block DDA 200). Suitable for SD 200 switch disconnectors series.



S 2C-BP

Description	**Bbn 8012542**	**Order details**		**Price 1 piece**	**Weight 1 piece**	**Pack unit**
	EAN	**Type code**	**Order code**		**kg**	**pc.**
Mechanical tripping device	941309	S2C-BP	2CSS200998R0001		0.048	1

Plug-in base

Function: it is possible to transform a standard circuit-breaker of the S 200 and F 200 range in a plug-in device which can be pulled out of the circuit where it is installed in one operation. Suitable for MCBs S 200 series and for RCCBs F 200 series up to 63 A and RCBOs DS201, DS202C and AFDD S-ARC1 series.



S 2C-EST

Description	**Bbn 8012542**	**Order details**		**Price 1 piece**	**Weight 1 piece**	**Pack unit**
	EAN	**Type code**	**Order code**		**kg**	**pc.**
Plug-in base	940708	S2C-EST	2CSS200999R0001		0.115	1

Motor operating and autoreclosing devices for
MCBs, RCDs and Switch Disconnectors



S2C-CM

Motor operating devices				
			S2C-CM1, F2C-CM	CM2/3, CM4
Supply		V	12 ... 30 V a.c. +10% - 15% (50-60Hz); 12 ... 48 V d.c. +10% - 15%	
Power consumption during the operation	12 V a.c.	VA	< 15	< 16
	24 V a.c.	VA	< 22	< 27
	30 V a.c.	VA	< 25	< 28
	12 ... 48 Vd.c.	VA	< 20	< 22
Power consumption at rest		VA	< 1.5	
Make-time at ambient temperature		sec	< 1	
Opening time at ambient temperature		sec	< 0.5	
Number of operations			< 20.000	
Operating temperature		°C	- 25 ... + 55	
Cables length of control circuit		m	< 1500	
Cables cross-section		mm^2	< 2.5	
Signal contact (terminals 3 – 4 – 5) Current carrying capacity			1NA + 1NC (change-over contact) 5 A (250 V AC) (inductive-ohmic load)	
Auxiliary contact (terminals 6 – 7 – 8) Current carrying capacity			1NA + 1NC (change-over contact) 3 A (250 V AC) (inductive-ohmic load)	
Remote control*			By means of dry contacts	
Remote control terminals			Terminal 9 = make contact; Terminal 10 = opening contact Terminal 11 = common reference for control contacts, +5V d.c. (supplied by the motor operating device)	

* Note: In case of the device opening due to a fault, please wait 8 seconds before attempting to reclose the motor operator.

Motor operating and autoreclosing devices for
MCBs, RCDs and Switch Disconnectors



S2C-CM

Motor operating devices			
			DS2C-CM
Supply		V	12 ... 30 V a.c. +10% - 15% (50-60Hz); 12 ... 48 V d.c. +10% - 15%
Insulation voltage		V	2500 for 1 minute
Power consumption during the operation	12 V a.c.	VA	< 15
	24 V a.c.	VA	< 22
	30 V a.c.	VA	< 25
	12 ... 48 V d.c.	VA	< 20
Power consumption at rest		VA	< 1.5
Remote control *			by means of dry contacts
Make-time at ambient temperature		sec	< 1
Opening time at ambient temperature		sec	< 0.5
Time before attempting to reclose the motor operator		sec	8
Number of operations			< 20.000
Operating temperature		°C	- 25 ... + 55
Storage temperature		°C	- 40 ... + 70
Mounting			on DIN rail EN 60715 by means of fast clip device
Protection degree (EN 60529)			terminals: IP2X
			enclosure: IP4X
Cables length of control circuit		m	< 1500
Cables cross-section		mm^2	< 2.5
Signal contact (terminals 3 – 4 – 5)			1NO + 1NC (change-over contact)
Current carrying capacity			5 A (250 V AC) (resistive load)
Auxiliary contact (terminals 6 – 7 – 8)			1NO + 1NC (change-over contact)
Current carrying capacity			3 A (250 V AC) (resistive load)
Remote control terminals			Terminal 9 = make contact; Terminal 10 = opening contact Terminal 11 = common reference for control contacts, +5 V d.c. (supplied by the motor operating device)

* Note: In case of the device opening due to a fault, please wait 8 seconds before attempting to reclose the motor operator.

Motor operating devices

Function: S2C-CM, F2C-CM and DS2C-CM allow the remote control (opening or closing) of the coupled device. Suitable for S200 series MCBs, SD200 switch disconnectors, F200 RCCBs, RCBOs DS201, DS201 (2019), DS202C.

Description	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Motor operating device for 1P S200 series MCBs and SD200 switch disconnectors	026259	S2C-CM1	2CSS201997R0013		0.166	1
Motor operating device for 2P and 3P S200 series MCBs , 2P DS201 (2019) RCBOs and SD200 switch disconnectors	026358	S2C-CM2/3	2CSS203997R0013		0.166	1
Motor operating device for 4P S200P MCBs	026457	S2C-CM4	2CSS204997R0013		0.166	1
Motor operating device for 2P and 4P F200 RCCBs	026556	F2C-CM	2CSF200997R0013		0.166	1
Motor operating device for 1P+N and 2P DS201, DS202C RCBOs	135951	DS2C-CM	2CSR201997R0013		0.166	1
Motor operating device for F200 125A RCCB	020721	F2-125A-24V-CM4	2CSF200997R1214		0,36	1
Motor operating device for F200 125A RCCB	600626	F2-125A-230V-CM4	2CSF200997R1205		0,36	1

Motor operating and autoreclosing devices for
MCBs, RCDs and Switch Disconnectors



F2C-ARI

Auto-reclosing unit				
			F2C-ARI	F2C-ARI30
Supply		V	12 ... 30 V a.c. +10% - 15% (50-60Hz); 12 ... 48 V d.c. +10% - 15%	
Number of automatic reset attempts			3	
Time of reset of the auto-reset meter		sec	12	45
Power consumption during the operation	12 V a.c.	VA	< 15	
	24 V a.c.	VA	< 22	
	30 V a.c.	VA	< 25	
	12...48 V d.c.	VA	< 20	
Power consumption at rest		VA	< 1.5	
Waiting time between auto-reset attempts		sec	3	30
Closing time at ambient temperature		sec	< 1	
Opening time at ambient temperature		sec	< 0.5	
Number of operations			< 20.000	
Operating temperature		°C	- 25 ... + 55	
Cables length of control circuit		m	< 1500	
Cables cross-section		mm^2	< 2.5	
Signaling contact to signal a locked state following three auto-reset attempts (terminals 3–4–5)			1NA + 1NC (change-over contact)	
Current carrying capacity			5 A (250 V AC) (ohmic load)	
Auxiliary contact (terminals 6–7–8)			1NA + 1NC (change-over contact)	
Current carrying capacity			3 A (250 V AC) (ohmic load)	
Remote control			By means of dry contacts	
Remote control terminals			Terminal 9 = closing and remote reset contact for locked state; Terminal 10 = opening contact	
			Terminal 11 = common reference for control contacts, +5V d.c. (supplied by the motor operating device)	

Auto-reclosing units

Function: F2C-ARI and F2C-ARI30 allow the auto-reclosing of the coupled device in case of unwanted tripping. Suitable for F 200 RCCBs up to 100 A.

Description	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Auto-reclosing unit for 2P and 4P F200 RCCBs	026655	F2C-ARI	2CSF200996R0013		0.166	1
Auto-reclosing unit for 2P and 4P F200 RCCBs (30")	064350	F2C-ARI30	2CSF200995R0013		0.166	1

Motor operating and autoreclosing devices for
MCBs, RCDs and Switch Disconnectors



F2C-ARH



F2C-ARH-T

Home automatic resetting unit		
		F2C-ARH /F2C-ARH-T
Power supply	VAC	230
Number of automatic reclosing attempts		1
Reset time for counter of automatic reclosing attempts	sec	12
Power absorbed during the operation	VA	(t<0.5s) 20 max
Power consumption in stand-by	W	0.4 max
Number of operations		≤ 10.000
Operating temperature	°C	-25 ... + 55
Signal contact cable section	mm^2	≤ 2.5
Signal contact for the locked state (terminals 1-2)		1NA (change-over contact)
Signal contact rated current	A	3 (250V AC)

Home automatic resetting unit (for domestic and similar applications)
Function: it recloses the associated residual current device, only after having checked that there are no effective faults in the system protected by the RCCB.
Suitable for 2-pole RCCB series with 30 mA or 100 mA sensitivities, max 63 A

Description	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Home automatic resetting unit (30 mA)	732433	F2C-ARH	2CSF200992R0005		0.200	1
Home automatic resetting unit (100 mA)	658535	F2C-ARH100	2CSF200990R0005		0.200	1

Home automatic resetting unit with autotest (for domestic and similar applications)
Function: it recloses the associated residual current device, only after having checked that there are no effective faults in the system protected by RCCB.
Suitable for 2-pole RCCB series with 30 mA or 100 mA sensitivities, max 63 A.
F2C-ARH-T allows the RCCB automatic test every six months.

Description	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Home automatic resetting unit (30 mA) with RCCB autotest	733232	F2C-ARH-T	2CSF200991R0005		0.200	1
Home automatic resetting unit (100 mA) with RCCB autotest	593836	F2C-ARH-T100	2CSF200989R0005		0.200	1

Busbars and accessories for
MCBs S 200, RCDs F 200 and DS 200 series

			Busbars PS				Busbars PS...CB		
Suitable for			MCB: S200, S200M, S200P RCD: F200, DDA-blocks				MCB: S200, S200M, S200P, S200MUC, S200MTUC		
Electrical Data	Standards		for IEC applications IEC/EN 60947-1				for IEC / UL applications IEC/EN 60947-1 UL1077		
	Approvals		—				UL508		
	Rated voltage Ue		1P, 2P, 3P, 4P: 690 V AC, 690 V DC				1P: 1000 V AC/DC 2P, 3P: 600 V AC/DC		
	Rated frequency	Hz	50 / 60 Hz, DC				50 / 60 Hz		
	Current carrying capacity / Phase (35°C ambient temperature)	A		10 mm²	16 mm²	30 mm²		18 mm²	25 mm²
			End feeding ①	63 A	80 A	120 A	End feeding ①	80 A	100 A
			Non-end feeding ①	100 A	130 A	160 A	Non-end feeding ①	160 A	200 A
	Short-circuit withstand capacity	kA	25 kA in series with fuse NH3 355 A gG 500 V				10 kA 3 cycles @ 480 V / 100 kA Fuse Class J 175 A / 18 mm² – 200 A / 25 mm²		
Mechanical Data	Housing		light grey, RAL 7035						
	Enviromental conditions acc. to		DIN EN 60068						
	Overvoltage category		III						
	Pollution degree		2						
Installation	Cross-Section Busbar		10 mm², 16 mm², 30 mm²				18 mm², 25 mm²		
	Mounting position		optional						
	Supply		Feed on terminal of the device (supply side optional) or use of feeder terminal range AST; SZ-ESK				Feed on terminal of the device (supply side optional) or use of feeder terminals AST 35/... CB; SZ-ESK SP		
Accessories	Shock-protection caps		BSK, SZ-BSK				BSK CB		
	Feeder terminals		range AST, SZ-ESK				AST 35/15.. CB; AST 35/38.. CB SZ-ESK SP		
	End caps		range END, PS-END, PSB-END				PS-END SP; PS-END1 SP		
			Feeder Terminals AST , SZ-ESK				**Feeder Terminals AST... CB and SZ-ESK SP**		
Electrical Data	Max. operating voltage	V	690 V AC, 690 V DC				AST.. CB 1000 V AC/DC; SZ-ESK SP 690 V AC/DC		
	Current carrying capacity / phase	A	see below ①				115 A ①		
	Cross-Section	mm²	SZ-ESK	6 - 35 mm²	100 A		SZ-ESK SP	35 mm² / 2AWG flexible with ferrules	
				6 - 50 mm²	125 A			50 mm² / 1AWG solid / stranded	
		mm²	AST	6 - 25 mm²	80 A		AST.. CB	35 mm² / 2AWG flexible with ferrules	
				6 - 50 mm²	125 A			50 mm² / 1AWG solid / stranded	
Instruction of installation			When cutting the busbar, ensure that the insulation profile exceeds the copper bar by approx. 10 mm on each side. Shock protection only with mounted end caps ensured. For DC applications the required increased clearence and creepage distances needs to be ensured.				When cutting the busbar, ensure that the installation profile exceeds the copper bar by approx. 10 mm on each side. Shock protection only with mounted end caps ensured.		

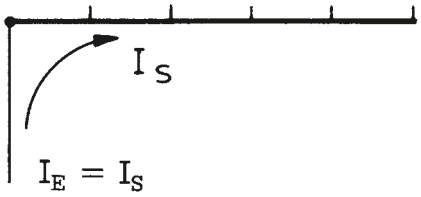
① In case of feed in from the middle of the busbar it needs to be ensured, that the sum of junction currents per side must not exceed the max busbar current Is/phase. Irrespective of the current carrying capacity (Is) of the busbar, the max. rated current of the devices terminal may not be exceeded.

Busbars and accessories for
MCBs S 200, RCDs F 200 and DS 200 series

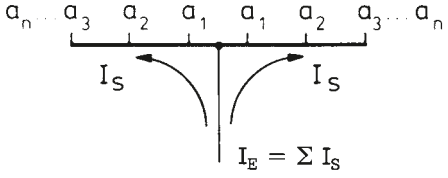
Busbars PS...BP	Busbars PS...BP-C	Busbars PS..DC
MCB: SU200M, S200UDC, S200U, S200UP	MCB: SU200M, S200UDC, S200U, S200UP	MCBs, Fuseholders E90
for IEC / UL applications IEC/EN 60947-1 UL489	for IEC / UL applications IEC/EN 60947-1 UL508	for IEC applications IEC/EN 60947-1
UL489	UL 489	-
1P, 2P, 3P: 480 V AC	600 V AC/DC	690 V AC / 1000 V DC
50 / 60 Hz	50 Hz (IEC) / 60 Hz (UL)	50 / 60 Hz, DC
16 mm²		
80 A (115A for cubicle size ≥ 30"x30"x10")	End feeding ① 100 A Non-end feeding ① 200 A	End feeding ① 100 A Non-end feeding ① 160 A
10 kA in series with fuse NH3 355 A gG 500 V	10 kA 3 cycles @ 600 V / 140 kA Fuse Class J 200 A	25 kA/0,1 s, 100 kA in series with fuse NH3 355 A gG
16 mm²	25 mm²	30 mm²
Feed on terminal of the device (supply side optional) or use of feeder terminals AST 35/15 BP; SZ-ESK BP	Feed on terminal of the device (supply side optional) or use of feeder terminal AST 35/58 BP-C	Feed on terminal of the device (supply side optional) or use of feeder terminal AST 35/18 DC or AST 35/45 DC
BSK BP	BSK BP-C	
AST 35/15 BP SZ-ESK BP	AST 35/58 BP-C	AST 35/18 DC (for use with 1-phase busbar) AST 35/45 DC (for use with 2-phase busbar)
-	PS-END 3 BP-C	PS-END0, PS-END3

Feeder Terminals AST 35/15 BP and SZ-ESK BP		Feeder Terminals AST 35/58 BP-C	
480 V AC		1000 V AC/DC	
115 A ①		115 A use 75° wire 95 A use 60° wire	
SZ-ESK BP	35 mm² / 2AWG flexible with ferrules	AST 35/58 BP-C	28mm² / 2AWG
	50 mm² / 1AWG solid / stranded		
AST 35/15 BP	25 mm² / 3AWG flexible with ferrules		
	35 mm² / 2AWG solid / stranded		

Cutting of busbar is not permitted.	Shock protection only with mounted end caps ensured. For DC applications the required increased clearence and creepage distances needs to be ensured.	The copper bus has to be cut to a length that is app. 10 mm less than the corresponding length of the plastic busbar housing. Toch-safe only when used with the required end caps. Independant from the rated voltage of the devices like busbars or feeder terminals the creepage distances and distances over the air needs to be considered. This is depending on the particular application as well as on the complete assembling.



Feed in from the end of the busbar

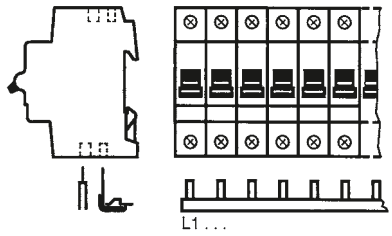


Feed in from the middle of the busbar

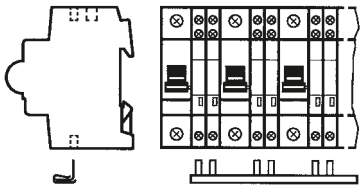
Accessories for MCBs and RCDs

Busbars

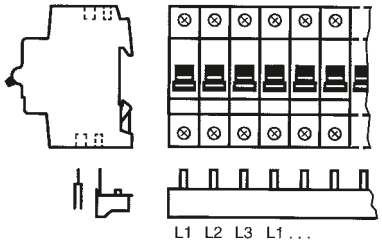
PS 1/...
PS 1/.../16
PS 1/.../30



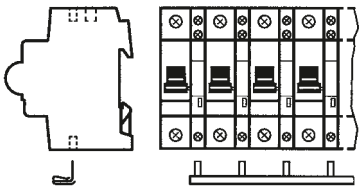
PS 1/29/6



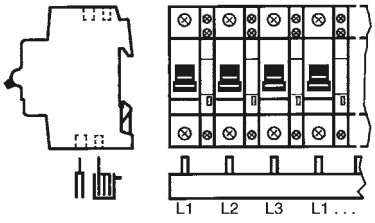
PS 3/...
(2CDL231 ...)



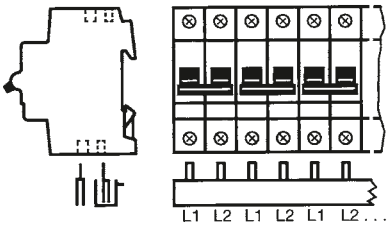
PS 1/38/6



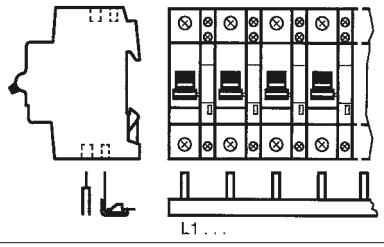
PS 3/39 H
PS 3/39/16 H



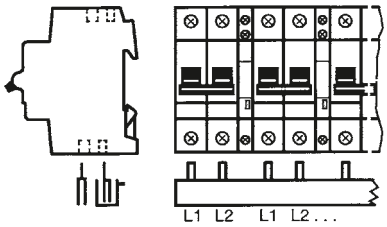
PS 2/12
PS 2/58
PS 2/58/16
PS 2/12 A
PS 2/58/16 A
PS 2/58 SP
PS 2/58/16 SP



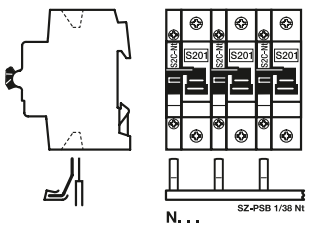
PS 1/38 H
PS 1/38/16 H



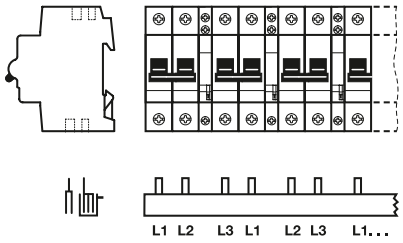
PS 2/48 H
PS 2/48/16 H
PS 2/48/16 HA
PS 2/48/16 SP



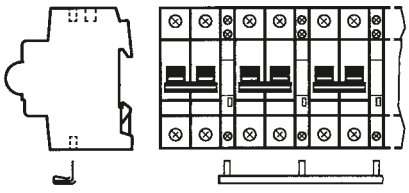
PS 1/38 NT



PS 3/46/16 H-IT



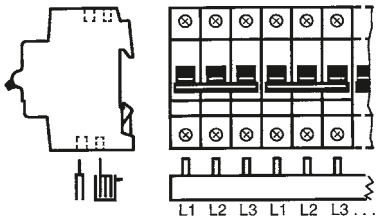
PS
1/23/6



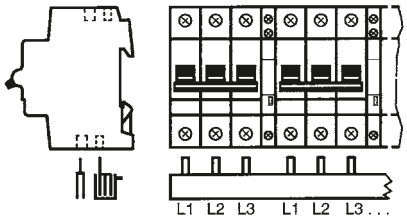
Accessories for MCBs and RCDs

Busbars

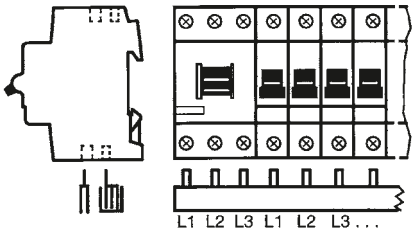
PS 3/12
PS 3/12 A
PS 3/12/16
PS 3/60
PS 3/60/16
PS 3/60/30
PS 3/60 A
PS 3/60/16 A
PS 3/60 SP
PS 3/60/16 SP



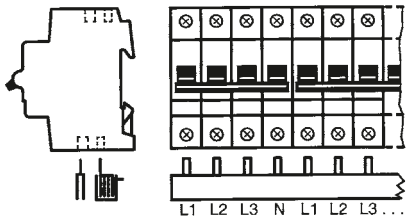
PS 3/48 H
PS 3/48/16 H
PS 3/48/16 HA
PS 3/48/16 SP



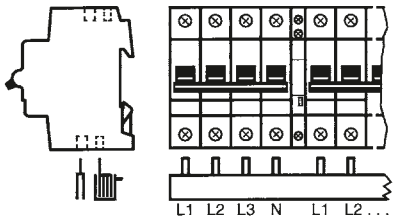
PS 3/12 E 463



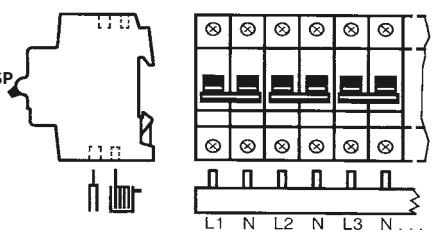
PS 4/12
PS 4/12/16
PS 4/60
PS 4/60/16
PS 4/12 A
PS 4/60/16 A
PS 4/60/16 SP



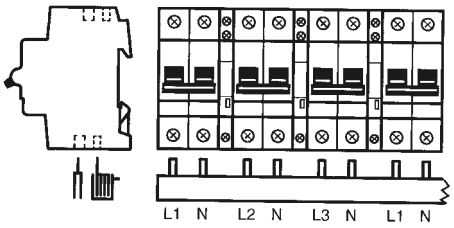
PS 4/52/16 H
PS 4/52/16 HA
PS 4/52/16 SP



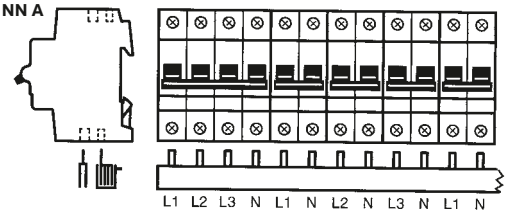
PS 4/12 NA
PS 4/58 N
PS 4/58/16 N
PS 4/58/16 NA
PS 4/58/16 N SP



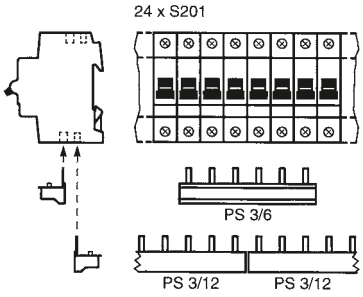
PS 4/48/16
NH A



PS 4/58/ NN A
PS 4/58/16 NN A



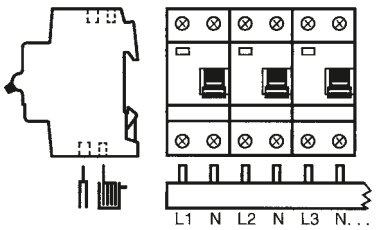
Example for overlap



Accessories for MCBs and RCDs

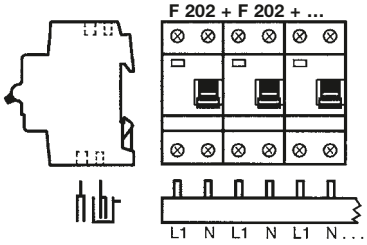
Busbars

PS 4/12 NA
PS 4/58 N
PS 4/58/16 N
PS 4/58/16 NA



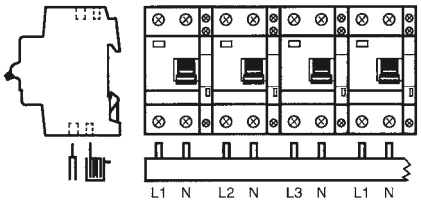
PS 2/12
PS 2/12/16
PS 2/58
PS 2/58/16
PS 2/12 A
PS 2758/16 A

F 202 + F 202 + ...



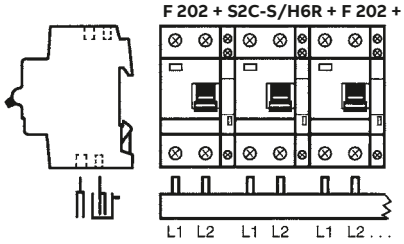
PS 4748/16 NH A

F 202 + S2C-S/H6R + F 202 + S



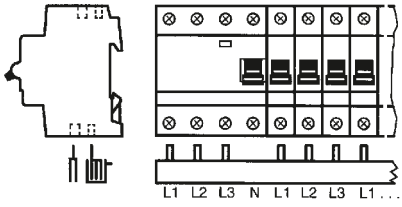
PS 2/48 H
PS 2/48/16 H
PS 2/48/16 HA

F 202 + S2C-S/H6R + F 202 + ...



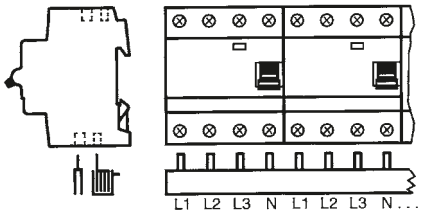
PS 3/12 FI
(2CDL230 ...)
PS 3/9 FI
PS 3/10 FI
PS 3/57 FI

F 204 + S 200 + S 200 + ...



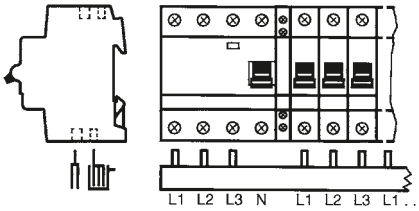
PS 4/12
PS 4/12/16
PS 4/60
PS 4/60/16
PS 4/12 A
PS 4/60/16 A

F 204 + F 204 + ...



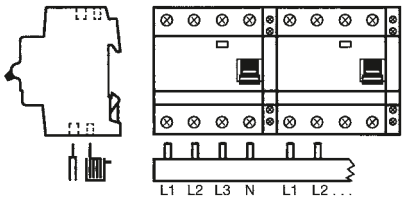
PS 3/12 FI H

F 204 + S2C-S/H6R + S 200 + S 200 ...



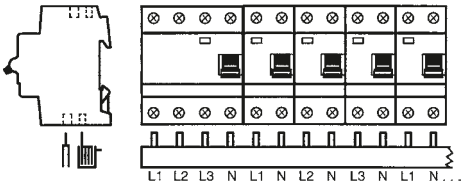
PS 4/52/16 H
PS 4/52/16 HA

F 204 + S2C-S/H6R + ...



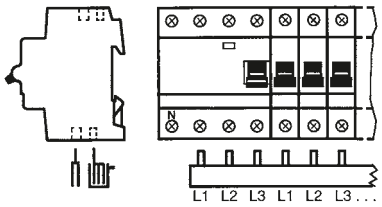
PS 4/58 NN A
PS 4/58/16 NN A

F 204 + F 202 + F 202 + ...



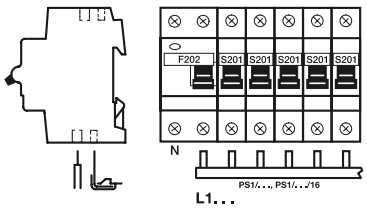
PS 3/11
PS 3/12
PS 3/12 A
PS 3/12/16
PS 3/60
PS 3/60/16
PS 3/60 A
PS 3/60/16 A

F 204 (N links) + S 200 + S 200 ...



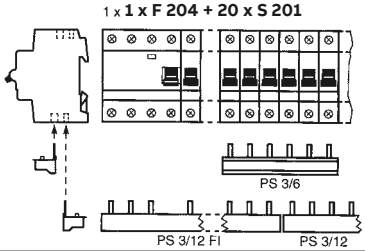
PS 1/3
PS 1/6
PS 1/9
PS 1/60
PS 1/60/16

F 202 + S 201 + S 201 + ...



Example for overlapping

1 x 1 x F 204 + 20 x S 201

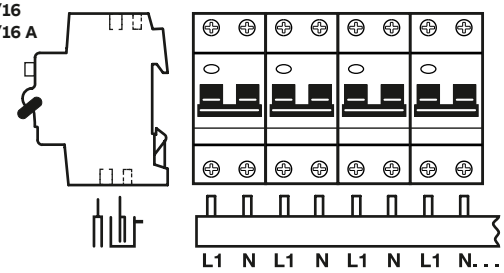


Accessories for MCBs and RCDs

Busbars

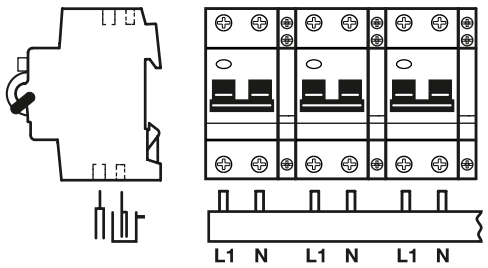
PS 2/12
PS 2/12 A
PS 2/58
PS 2/58/16
PS 2/58/16 A

DS 201 **DS 201 ...**
DS 202 C **DC 202 C ...**



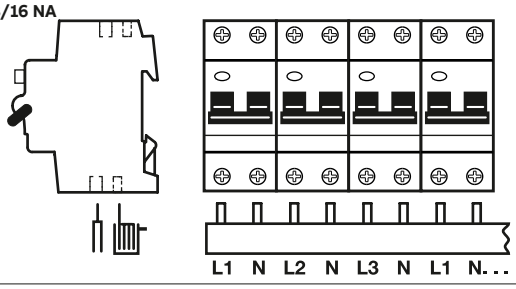
PS 2/48 H
PS 2/48/16 H
PS 2/48/16 HA

DS201 + S2C-S/H6R + DS201 ...
DS202C + S2C-S/H6R + DS202C ...



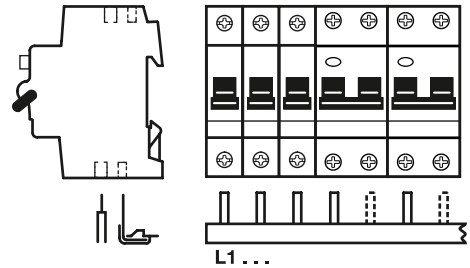
PS 4/12 NA
PS 4/58 N
PS 4/58/16 N
PS 4/58/16 NA

DS 201 **DS 201** **...**
DS 202 C **DC 202 C** **...**



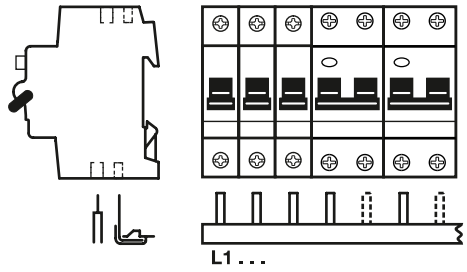
PS 2/48 H
PS 2/48/16 H
PS 2/48/16 HA

DS 201 + S2C-S/H6R + DS 201...
DS 202 + S2C-S/H6R + DS 202 C...



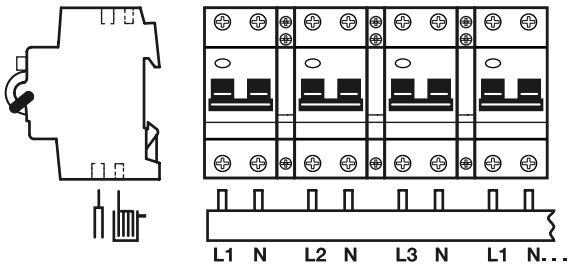
PS 1/12 A
PS 1/60 A
PS 1/60/16 A

S 201 S 201 S 201 DS 201 ...
DS 202 C ...



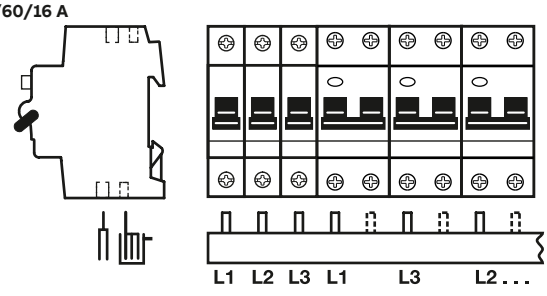
PS 4/48 NHA
PS 4/48/16 NHA

DS 201 + S2C-S/H6R + DS 201 ...
DS 202 + S2C-S/H6R + DS 202 ...



PS 3/12 A
PS 3/60 A
PS 3/60/16 A

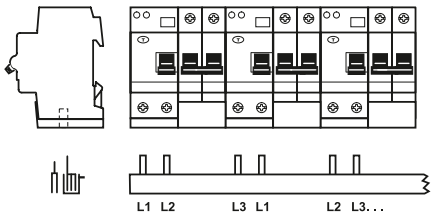
S 201 S 201 S 201 DS 201 DS 201
DS 202 C DS 202 C



Accessories for MCBs and RCDs

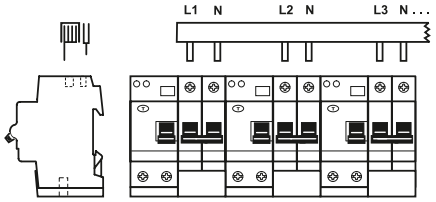
Busbars

PS 3/30-DDA 202
PS 3/30/16-DDA 202 DS 202 + DS 202 + (DDA 202 + S 202) + (DDA 202 + S 202) ...



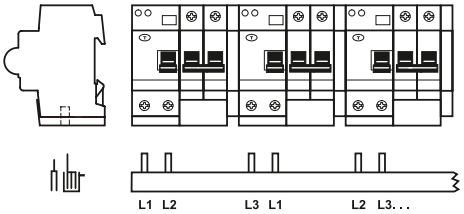
PS 4/30/16N-DDA 202 T

DS 202 + DS 202 + (DDA 202 + S 202) ...



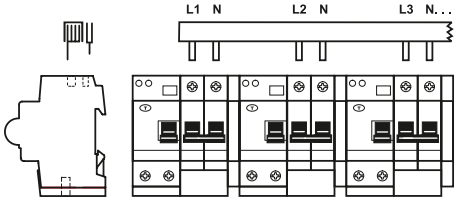
PS 3/26/16H-DDA 202

DS 202 + S2C-S/H6R + DS 202 + S2C-S/H6R + DDA 202 + S 202 + S2C-S/H6R + DDA 202 + S 202 + S2C-S/H6R ...



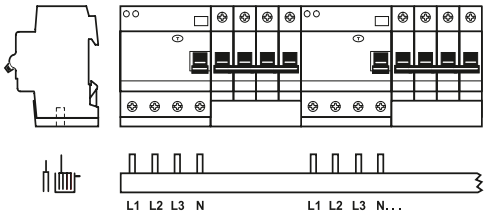
PS 4/30/16NH-DDA 202 T

DS 202 + S2C-S/H6R + DS 202 + S2C-S/H6R + (DDA 202 + S 202) + S2C-S/H6R + (DDA 202 + S 202) + S2C-S/H6R ...



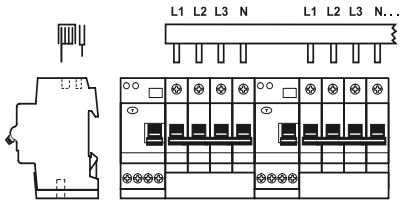
PS 4/32-DDA 204 **PS 4/32/16-DDA 204**

DS 204 (50/63 A) + (DDA 204 (63 A) + S 204) ...



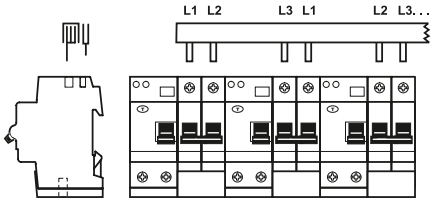
PS 4/40/16-DDA 204 T

DS 204 (m 40 A) + DS 204 (m 40 A) + DDA 204 (m 40 A) + S 204 + DDA 204 (m 40 A) + S 204 ...



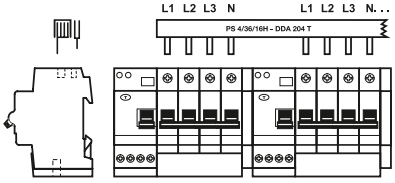
PS 3/30/16-DDA 202 T

DS 202 + DS 202 + DA 202 + S 202 + DDA 202 + S 202 ...



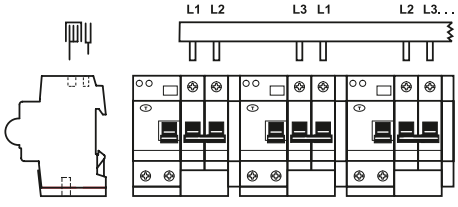
PS 4/36/16 H-DDA 204 T

DS 204 (m 40 A) + S2C-S/H6R + DS 204 (m 40 A) + S2C-S/H6R + DDA 204 (m 40 A) + S 204 + S2C-S/H6R + DDA 204 (m 40 A) + S 204 + S2C-S/H6R



PS 3/28/16 H-DDA 202 T

DS 202 + S2C-S/H6R + (DDA 202 + S 202) + S2C-S/H6R ...

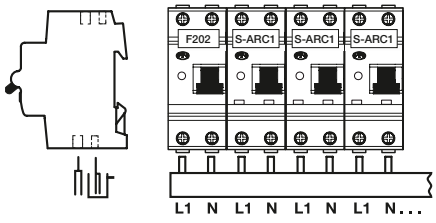


Accessories for AFDD 1P+N, S-ARC1

Busbars

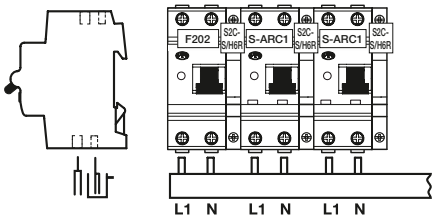
PS 2/12
PS 2/12 A
PS 2/12/16
PS 2/58
PS 2/58/16
PS 2/58/16 A

F202 S-ARC1 ...



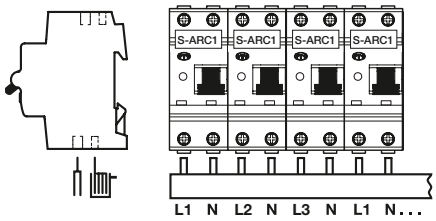
PS 2/48 H
PS 2/48/16 H
PS 2/48/16 HA

F202 + S2C-S/H6R + S-ARC1 ...



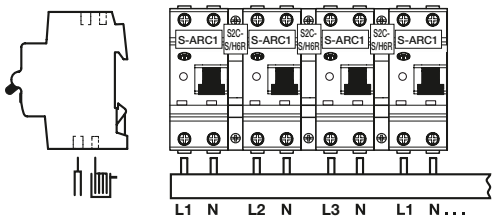
PS 4/12 NA
PS 4/58 N
PS 4/58/16 N
PS 4/58/16 NA

S-ARC1 S-ARC1 ...



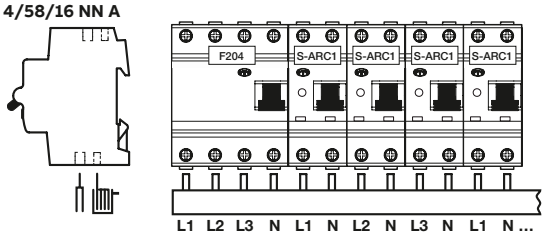
PS 4/48 NHA
PS 4/48/16 NHA

S-ARC1 + S2C-S/H6R + S-ARC1 ...



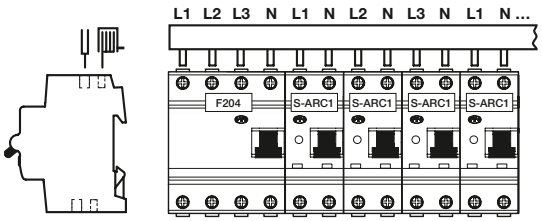
PS 4/12 NN A
PS 4/12/16 NN A
PS 4/58 NN A
PS 4/58/16 NN A

F204 + S-ARC1 + S-ARC1 + S-ARC1 + S-ARC1 + ...



PS 4/12 NNT
PS 4/12/16 NNT

F204 + S-ARC1 + S-ARC1 + S-ARC1 + S-ARC1 + ...



Busbar systems

Selection table

Short description
ABB busbar systems enable the safe and economic cross connection of MCBs, RCCBs and RCBOs.

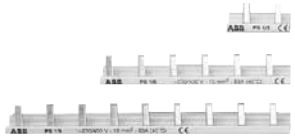
For a correct busbar selection the following points need to be considered:
MCB terminal type (Twin terminal or cage terminal)
Number of poles (1, 2, 3, 4, 1+N or 3+N)
Device type (MCB, RCCB or RCBO)
Combinations (e.g. RCCB + MCB or RCCB 3+N + RCCB 1+N)
Use of side mounted auxiliary elements on MCB *)
Busbar diameter (for current carrying capacity calculation)
Number of modules (choice of standard busbar or busbar for cutting)

PS	[ ]	/	[ ][ ]	/	[ ][ ]		[ ][ ][ ]	
	1		2	3	4	5	6	7 7
Phases								
1 phase	1							
2 phases	2							
3 phases	3							
4 phases	4							
Number of pins								
Diameter								
10 mm²					-	-		
6 mm²					6	-		
16 mm²					1	6		
30 mm²					3	0		
Application								
Cross connection of RCCB and MCB (4th pin removed for RCCB 3+N)							F	I
Use of neutral conductor (phase sequence e.g. L1-N-L2-N-L3-N-L1...)						N		
Space for 1 side mounted auxiliary contact						H		
Pins for breaking off								A
Cross connection of devices 3P+N + 1P+N (phase sequence L1-L2-L3-N-L1-N-L2-N-L1-N-...)							N	N
Busbars for IT networks							I	T
Busbars acc. to UL 489 (Branch Protection)							B	P
Busbars acc. to UL 1077 (Supplementary Protection)							C	B
Busbars for direct current applications							D	C

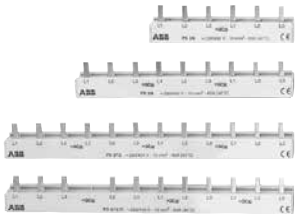
Note: Combinations of above applications are possible

*) only right side mounted auxiliary elements and bottom fixed auxiliary contacts can be considered for busbar connection

Busbar systems
Selection table



PS 1/2 - PS 1/12



PS 3/6 - PS 3/12

Pre-assembled busbars (not to be cut)

1-phase busbars, pin distance 17.6 mm, end caps PS-END 0

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code		kg	pc.
2	1	10	0.01	463003	PS1/2	2CDL210001R1002		0.01	180
3	1	10	0.03	514651	PS1/3	2CDL210001R1003		0.03	120
4	1	10	0.03	648233	PS1/4	2CDL210001R1004		0.03	100
6	1	10	0.03	463102	PS1/6	2CDL210001R1006		0.03	60
9	1	10	0.04	463201	PS1/9	2CDL210001R1009		0.04	30
12	1	10	0.05	463300	PS1/12	2CDL210001R1012		0.05	30
12	1	10	0.05	682985	PS1/12A ②	2CDL210010R1012		0.05	30

3-phase busbars, pin distance 17.6 mm

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code		kg	pc.
6	3	10	0.04	463409	PS3/6	2CDL231001R1006		0.04	60
9	3	10	0.07	463508	PS3/9	2CDL231001R1009		0.07	30
12	3	10	0.10	463607	PS3/12	2CDL231001R1012		0.10	30
12	3	10	0.10	463706	PS3/12FI *	2CDL231002R1012		0.09	50

* phase sequence: L1, L2, L3, free, L2, L3, L1, ...

Busbars suitable for cutting

1-phase busbars, pin distance 17.6 mm, end caps PS-END 0

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code		kg	pc.
60	1	10	0.26	514668	PS1/60	2CDL210001R1060		0.26	20
60	1	10	0.26	682992	PS1/60A ②	2CDL210010R1060		0.28	50
60	1	16	0.41	516655	PS1/60/16	2CDL210001R1660		0.41	20
60	1	16	0.41	683005	PS1/60/16A ②	2CDL210010R1660		0.39	50
5	1	30	0.04	653244	PS1/5/30 ①	2CDL210001R3005		0.04	100
10	1	30	0.09	653268	PS1/10/30 ①	2CDL210001R3010		0.09	100
11	1	30	0.09	653275	PS1/11/30 ①	2CDL210001R3011		0.10	100
14	1	30	0.120	653282	PS1/14/30 ①	2CDL210001R3014		0.120	50
15	1	30	0.130	653299	PS1/15/30 ①	2CDL210001R3015		0.130	50
18	1	30	0.150	653305	PS1/18/30 ①	2CDL210001R3018		0.150	50
19	1	30	0.160	653312	PS1/19/30 ①	2CDL210001R3019		0.160	50
60	1	30	0.520	653596	PS1/60/30	2CDL210001R3060		0.520	20

1-phase busbars, connection of 1-pole devices with auxiliary, end caps PS-END 0

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code		kg	pc.
38	1	10	0.27	586139	PS1/38H	2CDL210001R1038		0.27	30
38	1	16	0.45	586146	PS1/38/16H	2CDL210001R1638		0.45	30

① inclusive of end caps
② pre-cutted pins

Busbars and accessories for

MCBs S 200, RCDs F 200 and DS 200 series



PS 1/2 - PS 1/...

1-phase busbars, connection of neutral (blue insulation), end caps END 1.1

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
28	1	10	0.24	629546	PS1/28N	2CDL210001R1028		0.14	50
28	1	16	0.32	629560	PS1/28/16N	2CDL210001R1628		0.20	50
57	1	10	0.24	579728	PS1/57NA ②	2CDL210011R1057		0.14	50
57	1	10	0.24	629539	PS1/57N	2CDL210001R1057		0.14	50
57	1	16	0.32	579735	PS1/57/16NA ②	2CDL210011R1657		0.20	50
57	1	16	0.32	629553	PS1/57/16N	2CDL210001R1657		0.20	50

1-phase busbars, connection of auxiliaries, end caps END 1.1 except PS 1/57/6

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
23	1	6	0.16	584739	PS1/23/6	2CDL210005R0623		0.09	50
29	1	6	0.14	580823	PS1/29/6	2CDL210005R0629		0.10	50
38	1	6	0.14	580816	PS1/38/6	2CDL210005R0638		0.09	50
57	1	6	0.11	585309	PS1/57/6	2CDL210005R0657		0.08	50

1-phase busbars, connection of hand operated neutral S2C-Nt (blue insulation),end caps END 1.1

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
38	1	10	0.410	655361	PS1/38 NT	2CDL210002R1038			10



PS 2/12 - PS 2/...

2-phase busbars, pin distance 17.6 mm, end caps PS-END

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
12	2	10	0.07	556521	PS2/12 ①	2CDL220001R1012		0.08	50
12	2	10	0.07	584616	PS2/12A ①②	2CDL220010R1012		0.08	50
12	2	16	0.11	646918	PS2/12/16	2CDL220001R1612		0.09	50
58	2	10	0.32	556552	PS2/58	2CDL220001R1058		0.36	10
58	2	16	0.55	556569	PS2/58/16	2CDL220001R1658		0.49	10
58	2	16	0.55	584746	PS2/58/16A ②	2CDL220010R1658		0.49	10
58	2	30	1.81	654272	PS2/58/30 ③④	2CDL220001R3058		1.81	10

Note: PS...A is a busbar with removable pin

2-phase busbars, connection of 2-pole devices with auxiliary, end caps PS-END

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
48	2	10	0.47	556538	PS2/48H	2CDL220001R1048		0.35	10
48	2	16	0.68	556545	PS2/48/16H	2CDL220001R1648		0.48	10
48	2	16	0.68	584630	PS2/48/16HA ②	2CDL220012R1648		0.48	10

① inclusive of end caps
② pre-cutted pins
③ use end cap PS-END 3
④ removal of installed MCB not possible

Busbars and accessories for
MCBs S 200, RCDs F 200 and DS 200 series



PS 3/11 - PS 3/...

3-phase busbars, pin distance 17.6 mm, end caps PS-END

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
11	3	10	0.10	649926	PS3/11 ①	2CDL230001R1011		0.08	50
12	3	10	0.09	576116	PS3/12 ①	2CDL230001R1012		0.09	50
12	3	10	0.09	584647	PS3/12A ①②	2CDL230010R1012		0.09	50
12	3	16	0.16	562805	PS3/12/16 ①	2CDL230001R1612		0.12	50
60	3	10	0.51	514699	PS3/60	2CDL230001R1060		0.47	10
60	3	10	0.51	563758	PS3/60A ②	2CDL230010R1060		0.47	10
60	3	16	0.76	514705	PS3/60/16	2CDL230001R1660		0.65	10
60	3	16	0.76	563765	PS3/60/16A ②	2CDL230010R1660		0.65	10
60	3	30	2.65	654289	PS3/60/30 ③⑤	2CDL230001R3060		2.65	10

3-phase busbars, connection of 1-pole devices with auxiliary, end caps PS-END

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
39	3	10	0.51	556590	PS3/39H	2CDL230001R1039		0.43	10
39	3	16	0.76	556606	PS3/39/16H	2CDL230001R1639		0.60	10

3-phase busbars, connection of 2-pole devices (Phase+N) with auxiliary, end caps PS-END

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
24	3	10	0.80	556576	PS3/24H	2CDL230001R1024		0.41	10

3-phase busbars, connection of 2-pole devices (Phase+Phase) with auxiliary, end caps PS-END

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
46	3	16	0.98	662109	PS3/46/16H-IT	2CDL230006R1646		0.98	10

3-phase busbars, connection of 3-pole devices with auxiliary, end caps PS-END

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
48	3	10	0.51	556613	PS3/48H	2CDL230001R1048		0.43	10
48	3	16	0.76	556644	PS3/48/16H	2CDL230001R1648		0.60	10
48	3	16	0.76	584654	PS3/48/16HA ②	2CDL230012R1648		0.60	10

3-phase busbars, connection of 1+N or RCBOs, end caps PS-END

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
30	3	10	0.50	556583	PS3/30	2CDL230001R1030		0.42	10

① inclusive of end caps
② pre-cutted pins
③ use end cap PS-END 3
④ use end cap PS-END 3.1
⑤ removal of installed MCB not possible

Busbars and accessories for
MCBs S200, RCDs F200, DS200 and AFDD



PS 3/9 - PS 3/...

3-phase busbars, N of the RCD omitted, end caps PS-END

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
9	3	10	0.10	517515	PS3/9FI ①	2CDL230002R1009		0.06	50
10	3	10	0.10	517522	PS3/10FI ①	2CDL230002R1010		0.07	50
12	3	10	0.11	571074	PS3/12FI ①	2CDL230002R1012		0.09	50
57	3	10	0.55	556651	PS3/57FI	2CDL230002R1057		0.46	10

3-phase busbars, N of the RCD omitted, with auxilary at RCD end caps PS-END

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
12	3	10	0.11	571081	PS3/12FIH ①	2CDL230003R1012		0.09	50

4-phase busbars, pin distance 17.6 mm, end caps PS-END 1

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
12	4	10	0.12	656054	PS4/12 ①	2CDL240101R1012		0.11	30
12	4	10	0.12	656061	PS4/12A ①②	2CDL240110R1012		0.11	30
12	4	16	0.24	656078	PS4/12/16 ①	2CDL240101R1612		0.16	30
60	4	10	0.80	656085	PS4/60	2CDL240101R1060		0.64	10
60	4	16	1.21	656092	PS4/60/16	2CDL240101R1660		0.89	10
60	4	16	1.21	656108	PS4/60/16A ②	2CDL240110R1660		0.89	10
60	4	30	3.37	654296	PS4/60/30 ④⑤	2CDL240001R3060		3.37	10

Note: PS...A is a busbar with removable pin

① inclusive of end caps
② pre-cutted pins
③ use end cap PS-END 3
④ use end cap PS-END 3.1
⑤ removal of installed MCB not possible

Busbars and accessories for
MCBs S200, RCDs F200, DS200 and AFDD



PS 4/12 - PS 4/...

4-phase busbars, connection of 4-pole devices with auxiliary, end caps PS-END 1

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
52	4	16	1.30	656115	PS4/52/16H	2CDL240101R1652		0.78	10
52	4	16	1.30	656122	PS4/52/16HA ②	2CDL240212R1652		0.78	10

4-phase busbars, connection of 1+N or RCBOs, end caps PS-END 1

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
12	4	10	0.14	656139	PS4/12NA ①②	2CDL240213R1012		0.10	30
58	4	10	0.80	656146	PS4/58N	2CDL240101R1058		0.59	10
58	4	16	1.21	656153	PS4/58/16N	2CDL240101R1658		0.77	10
58	4	16	1.21	656221	PS4/58/16NA ②	2CDL240213R1658		0.77	10

4-phase busbars, connection of 1+N or RCBOs with auxiliary, end caps PS-END 1

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
48	4	16	1.48	656160	PS4/48/16NHA ②	2CDL240114R1648		0.76	10

4-phase busbars, connection of 4-pole RCD with 1+N , end caps PS-END 1

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
58	4	10	0.80	656177	PS4/58NNA ②	2CDL240110R1058		0.58	10
58	4	16	1.21	656184	PS4/58/16NNA ②	2CDL240110R1658		0.80	10

① inclusive of end caps
② pre-cutted pins
③ use end cap PS-END 3
④ use end cap PS-END 3.1
⑤ removal of installed MCB not possible

Busbars and accessories for
RCD-blocks DDA 200



PS 3/16 - PS 3/...

Busbars (suitable for cutting) for DDA 200 and DS 200 – bottom mounting (RCD)

3-phase busbars, connection of DDA 202 and DS 202, end caps PSB-END 3 (phase sequence L1-L2-free-free-L3-L1.....without N)

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
30	3	10	0.97	647472	PS 3/ 30-DDA 202	2CDL230202R1030		0.41	10
30	3	16	1.46	647502	PS 3/30/ 16-DDA 202	2CDL230202R1630		0.55	10

3-phase busbars, connection of DDA 202 and DS 202 with auxiliary, end caps PSB-END 3 (phase sequence L1-L2-aux.(free)-free-free-L3-L1-aux.(free).....without N)

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
26	3	16		648912	PS 3/26/ 16H-DDA 202	2CDL230202R1626			

4-phase busbars, connection of DDA 204 63 A and DS 204 50 A and 63 A, end caps PSB-END 4 (phase sequence L1-L2-L3-N-free-free-free-free-L1.....)

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
32	4	10	1.41	647458	PS 4/ 32-DDA 204	2CDL240204R1032		0.56	10
32	4	16	2.12	647465	PS 4/32/ 16-DDA 204	2CDL240204R1632		0.77	10

Busbars (suitable for cutting) for DDA 200 and DS 200 – top side mounting (MCB)

2-phase busbars, connection of DDA 202 and DS 202, end caps PSB-END 3 (phase sequence L1-L2/N-free-free-.....)

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
30	2	16	0.512	697675	PS 2/30/ 16N-DDA 202T	2CDL020202R1630			10

3-phase busbars, connection of DDA 202 and DS 202, end caps PSB-END 3 (phase sequence L1-L2-free-free-L3-L1.....without N)

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
30	3	16	1.25	652629	PS 3/30/ 16-DDA 202T	2CDL033202R1630			10

3-phase busbars, connection of DDA 202 and DS 202 with auxiliary, end caps PSB-END 3 (phase sequence L1-L2-aux.(free)-free-free-L3-L1-aux.(free).....without N)

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
28	3	16	1.31	652636	PS 3/28/ 16H-DDA 202T	2CDL034202R1628			10

Busbars and accessories for
RCD-blocks DDA 200



PS 4/36 - PS 4/...

4-phase busbars, connection of DDA 202 and DS 202, end caps PSB-END 4 (phase sequence L1-N-free-free-L2-N...)

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
30	4	16	1.67	652852	PS 4/30/ 16N-DDA 202T	2CDL040202R1630			10

4-phase busbars, connection of DDA 202 and DS 202 with auxiliary, end caps PSB-END 4 (phase sequence L1-N-aux.(free)-free-free-L2-N-aux.(free)...)

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
30	4	16	1.72	652599	PS 4/30/ 16NH-DDA 202T	2CDL041202R1630			10

4-phase busbars, connection of DDA 204 25 A and 40 A and DS 204 up to 40 A, end caps PSB-END 4 (phase sequence L1-L2-L3-N-free-free-L1.....)

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
40	4	16	1.79	652605	PS 4/40/ 16-DDA 204T	2CDL040204R1640			10

4-phase busbars, connection of DDA 204 25 A and 40 A and DS 204 up to 40 A with auxiliary, end caps PSB-END 4 (phase sequence L1-L2-L3-N-aux.(free)-free-free-free-free-L1)

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
36	4	16	1.73	652612	PS 4/36/ 16H-DDA 204T	2CDL041204R1636			10

Busbars and accessories for
AFDD S-ARC1 and DS-ARC1

Busbars for S-ARC1 installation

No. of pins	Phases	mm²	Cu-No kg	Bbn 4016779 EAN	Ordering details Type code	Ordering details Order code	Weight 1 pcs kg	Pkg qty pce
2-phase busbars, connection of 2-pole devices, end caps PS-END								
12	2	10	0.070	556521	PS2/12 1)	2CDL220001R1012	0.075	50
2-phase busbars, connection of 2-pole devices with auxiliary, end caps PS-END								
48	2	10	0.470	556538	PS2/48H	2CDL220001R1048	0.354	10,000
48	2	16	0.680	556545	PS2/48/16H	2CDL220001R1648	0.580	10,000
4-phase busbars, connection of 4-pole F204 with 1+N S-ARC1, end caps PS-END 1, Bottom side installation								
12	4	10	0.105	060301	PS4/12NN 1)	2CDL240102R1012	0.110	30
12	4	16	0.149	060332	PS4/12/16NN 1)	2CDL240102R1612	0.145	30
58	4	10	0.803	656177	PS4/58NNA	2CDL240110R1058	0.568	10
58	4	16	1.205	656184	PS4/58/16NNA	2CDL240110R1658	0.774	10
4-phase busbars, connection of 4-pole F204 with 1+N S-ARC1, end caps PS-END 1, Top side installation								
12	4	10	0.105	060356	PS4/12NNT 1)	2CDL240103R1012	0.110	30
12	4	16	0.149	060370	PS4/12/16NNT 1)	2CDL240103R1612	0.145	30

Busbars for DS-ARC1 installation

No. of pins	Phases	mm²	Cu-No kg	Bbn 40 16779 EAN	Ordering details Type code	Ordering details Order code	Weight 1 pcs kg	Pkg qty pce
2-phase busbar, end caps PS-END; both top and bottom side mounting								
8	2	16	0.105	063104	PS 2/8/16 AFDD	2CDL220102R1608	0.095	50
40	2	16	0.495	063111	PS 2/40/16 AFDD	2CDL220102R1640	0.51	10
4-phase busbar, end caps PS-END 1; first one: top side mounting; second one: bottom side mounting								
36	4	16	0.985	063128	PS 4/36/16 AFDD T	2CDL240103R1636	0.67	10
36	4	16	0.985	063135	PS 4/36/16 AFDD	2CDL240102R1636	0.67	10
4-phase busbar, connection with auxiliary, end caps PS-END 1; first one: top side mounting; second one: bottom side mounting								
30	4	16	0.915	063142	PS 4/30/16 H AFDD T	2CDL240103R1630	0.62	10
30	4	16	0.915	063159	PS 4/30/16 H AFDD	2CDL240102R1630	0.62	10

End caps PS-END and PS-END 1 for S-ARC1 and DS-ARC1 busbars

	Type code	Order code	Bbn 40 16779 EAN	Weight 1 pcs kg	Pkg qty pce
	PS-END	2CDL200001R0001	514729	0.001	50
	PS-END 1	2CDL200001R0002	570114	0.001	50

Busbars and accessories

Accessories for busbars PS...



PS-END

Accessories for busbars PS ...
End caps

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
				638913	END 1.1	2CDL200011R0011		0.001	50
				652261	PS-END 0	2CDL200001R0004		0.001	50
				514729	PS-END	2CDL200001R0001		0.001	50
				570114	PS-END 1	2CDL200001R0002		0.001	50
				646505	PS-END SP	2CDL200110R0001		0.001	50
				646512	PS-END 1 SP	2CDL200110R0002		0.001	50
				654302	PS-END 3	2CDL200001R3001		0.001	50
				654319	PS-END 3.1	2CDL200001R3002		0.001	50
				556304①	PSB-END 3	GHV0361325R0001		0.001	50
				556403①	PSB-END 4	GHV0361325R0002		0.001	50
				950060	PS-END 3 BP-C	2CDL200489R0003		0.001	50

① bbn-No. 4012233



SZ-BSK

Shock-protection caps for busbars PS...

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
	5 parts			420006	SZ-BSK	2CDL200001R0011		0.003	10
	5 parts			649834	BSK*	2CDL200001R0012		0.003	10

* closed version



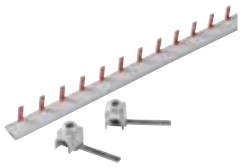
BSK

Shock-protection caps for busbars

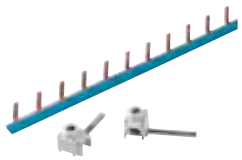
PS...BP - see on related busbar pages
PS...SP - see on related busbar pages

Busbars and accessories for

MCBs SN 201 and F200/S200 + SN 201



BS9+FEED-IN



BS9 NA+FEED-IN

Busbars for SN 201 range (Maximum rated current 63 A)

No. pins	Phases	Cross section	Bbn 8012542	Order details		Price 1	Weight 1 piece	Pack unit
		mm²	EAN	Type code	Order code	piece	kg	pc.
12	1	10	047650	BS9 1/12	2CSL910001R1012		0.050	10
12	1	10	047759	BS9 1/12 NA	2CSL910011R1012		0.050	10
56	1	10	047353	BS9 1/56	2CSL910001R1056		0.140	10
56	1	10	047452	BS9 1/56 NA	2CSL910011R1056		0.140	10
12	3	10	047551	BS9 3/12	2CSL930001R1012		0.090	5
57	3	10	047858	BS9 3/57	2CSL930001R1057		0.470	5

Busbars for F200/S200 and SN 201 range (Maximum rated current 63 A)

No. pins	Phases	Cross section	Bbn 8012542	Order details		Price 1	Weight 1 piece	Pack unit
		mm²	EAN	Type code	Order code	piece	kg	pc.
2 + 10 x 1+N	2	10	046950	BF2-S9 UP 1N/12	2CSL920009R1012		0.110	5
4 + 8 x 1+N	4	10	047056	BF2-S9 UP 3N/12	2CSL940009R1012		0.110	5
2 + 10 x 1+N	2	10	047155	BF2-S9 DOWN 1N/12	2CSL920002R1012		0.110	5
4 + 8 x 1+N	4	10	047254	BF2-S9 DOWN 3N/12	2CSL940002R1012		0.110	5

Terminals, insulated

Conn. capacity	Type of connec-tion	Terminal lug L	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
mm²		mm	EAN	Type code	Order code		kg	pc.
25	pin	15	047957	FEED-IN 25/15 1P	2CSL980001R2515		0.010	5
25	pin	30	048053	FEED-IN 25/30 3P	2CSL980001R2530		0.010	5

End caps

	Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	064251	BS9-END 3P ①	2CSL980001R0001		0.001	20

① In combination with BS9 3/57

Busbars and accessories for
S200C Compact MCBs



BB-SU 1/13/10 GREY

Busbars available for the connection with S200C sereis

No. Pins	Phases Supply	Distribution	mm²	Bbn 4053546 EAN	Order details Type code	Order code	Weight 1 piece kg	Pack unit pc.
13	1P	1P+N MCBs	10	046830	BB-SU 1/13/10 GREY (1)	2CDL801141R1013	0.044	15
13	1P	1P+N MCBs	10	046847	BB-S 1/13/10 BLUE (2)	2CDL801145R1013	0.044	15
36	2P	2P or 1P +N MCBs	10	046755	BB-SU 2/36/10	2CDL802141R1018	0.112	20
112	2P	2P or 1P +N MCBs	10	046816	BB-SU 2/112/10	2CDL802141R1055	0.336	20
24	3P	2P MCBs	10	046762	BB-SU 3/24/10	2CDL803141R1024	0.125	15
112	3P	2P MCBs	10	046779	BB-SU 3/112/10	2CDL803141R1111	0.579	15
108	3P+N	2P MCBs	10	046809	BB-SU 4/108/10 N	2CDL804142R1110	0.752	10
112	3P+N	4P or 3P +N MCBs	10	046786	BB-SU 4/112/10 Kit*	2CDL804141R1055	0.640	5

* incl. 4 end caps and 4 connection clamps
(1) Phase connection
(2) Neutral connection



BB-END

End Caps

mm²	Bbn 4053546 EAN	Order details Type code	Order code	Weight 1 piece kg	Pack unit pc.
10/16	046717	BB-END 2.1	2CDL800001R0021	0.001	10
16	046731	BB-END 3.2	2CDL800001R0030	0.001	10
10/16	046823	BB-END 4.1	2CDL800001R0040	0.001	10



BB-SU 1/13/10 GREY

Feeder Terminal

mm²	Bbn 4053546 EAN	Order details Type code	Order code	Weight 1 piece kg	Pack unit pc.
25	046748	BB-FS 25/27 Q	2CDL800001R2527	0.015	30

Busbars and accessories for

MCBs acc. UL 489: SU200 M, S200 UDC, S200 U and S200 UP



PS2/6/16 BP



BSK BP



AST35/15BP



SZ-ESK BP

Pre-assembled busbars (not to be cut) acc. to UL 489, suitable for SU200 M, S200 UDC, S200 U and S200 UP

1-phase busbars, pin distance 17.6 mm, UL 489

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code		kg	pc.
6	1	16	0.04	644969	PS 1/6/16 BP	2CDL210489R1606		0.05	1
12	1	16	0.07	644976	PS 1/12/16 BP	2CDL210489R1612		0.11	1
18	1	16	0.11	644983	PS 1/18/16 BP	2CDL210489R1618		0.16	1

2-phase busbars, pin distance 17.6 mm, UL489

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code		kg	pc.
6	2	16	0.07	644990	PS 2/6/16 BP	2CDL220489R1606		0.06	1
12	2	16	0.14	645003	PS 2/12/16 BP	2CDL220489R1612		0.13	1
18	2	16	0.21	645010	PS 2/18/16 BP	2CDL220489R1618		0.20	1

3-phase busbars. pin distance 17.6 mm. UL 489

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code		kg	pc.
6	3	16	0.11	645027	PS 3/6/16 BP	2CDL230489R1606		0.07	1
12	3	16	0.22	645034	PS 3/12/16 BP	2CDL230489R1612		0.15	1
18	3	16	0.33	645041	PS 3/18/16 BP	2CDL230489R1618		0.24	1

Accessories for busbars PS...BP

Shock-protection caps for PS...BP (UL 489)

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code		kg	pc.
	3 parts			656368	BSK BP	2CDL200489R0001		0.001	10

Feeder Terminals for PS...BP (UL 489)

Conn. capacity	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
mm²	kg	EAN	Type code	Order code		kg	pc.
35	0.035	710350	AST 35/15 BP	2CDL201489R3515		0.035	25
Single-pole terminal, can be mounted side by side, feed on the pin of the busba							
50		710367	SZ-ESK BP	2CDL201489R5001		0.038	50

Technical features

	Feeder terminals SZ-ESK BP, AST 35/15 BP	
Max. operating voltage	480 V AC	
Max. current	80 A (115 A for cubicle size ≥ 30" x 30" x 10") ①	
Protection degree	IP 20	
Wire range	SZ-ESK PB:	35 mm² / 2AWG flexible with ferrule
		50 mm² / 1AWG solid/stranded
	AST 35/15 BP:	25 mm² / 3AWG flexible with ferrule
		35 mm² / 2AWG solid/stranded

① inclusive of end caps
② pre-cutted pins
③ use end cap PS-END 3
④ use end cap PS-END 3.1
⑤ removal of installed MCB not possible

① regardless of the rated current of the feeder terminal the maximum current rating of the device terminal may not be exceeded

Busbars and accessories for
MCBs acc. UL 489: SU200 M, S200 UDC, S200 U and S200 UP



PS1/57/25BP-C

Busbars PS....BP-C (suitable for cutting) for MCBs acc. to UL489: SU200 M, S200 UDC, S200 U and S200 UP

1-phase busbars, pin distance 17.6 mm, end caps PS-END 3 BP-C

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code		kg	pc.
57	1	25	0.47	949910	PS1/57/25BP-C	2CDL210489R5725		0.775	10

1-phase busbars, connection of 1-pole devices with auxiliary, end caps PS-END 3 BP-C

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code		kg	pc.
37	1	25	0.5	949934	PS1/37/25HBP-C	2CDL210489R3725		0.661	10

2-phase busbars, pin distance 17.6 mm, end caps PS-END 3 BP-C

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code		kg	pc.
56	2	25	0.888	949941	PS2/56/25BP-C	2CDL220489R5625		0.969	10

2-phase busbars, connection of 2-pole devices with auxiliary, end caps PS-END 3 BP-C

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code		kg	pc.
46	2	25	0.87	949958	PS2/46/25HBP-C	2CDL220489R4625		0.943	10

3-phase busbars, pin distance 17.6 mm, end caps PS-END 3 BP-C

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code		kg	pc.
57	3	25	1,31	949965	PS3/57/25BP-C	2CDL230489R5725		1.198	10

3-phase busbars, connection of 3-pole devices with auxiliary, end caps PS-END 3 BP-C

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code		kg	pc.
48	3	25	1,28	949972	PS3/48/25HBP-C	2CDL230489R4825		1.129	10
39	3	25	1,305	949989	PS3/39/25HBP-C	2CDL230489R3925		1.115	10

Accessories for busbars PS....BP-C

Shock-protection caps for PS....BP-C

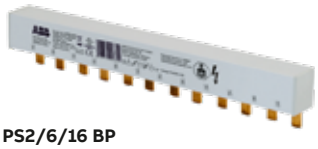
No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code		kg	pc.
	3 parts			950077	BS BP-C	2CDL200489R0002		0.005	10

Terminal insulated with pin contact

Conn. capacity mm²	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	kg	EAN	Type code	Order code		kg	pc.
25	0.038	950060	AST 35/58 BP-C	2CDL201489R3558		0.045	10

Busbars and accessories for

MCBs acc. UL 1077: S200, S200 M, S200 P, S200 MUC, S200 MTUC, ST200 M and Fuse Disconnectors E90



PS2/6/16 BP

Busbars suitable for cutting

			Bbn 4016779	Order details		Weight 1 piece	Pack unit
No. of pins	Phases	mm²	EAN	Type code	Order code	kg	pc.
1-phase busbars, pin distance 17.6 mm, end caps PS-END 1 CB							
57	1	18	906760	PS 1/57/18 CB	2CDL210508R5718	0.289	10
57	1	25	906913	PS 1/57/25 CB	2CDL210508R5725	0.360	10
1-phase busbars, connection of 1-pole devices with auxiliary, end caps PS-END 1 CB							
37	1	18	906784	PS 1/37/18 H CB	2CDL210508R3718	0.254	10
37	1	25	906937	PS 1/37/25 H CB	2CDL210508R3725	0.310	10
2-phase busbars, pin distance 17.6 mm, end caps PS-END 3 CB							
56	2	18	906807	PS 2/56/18 CB	2CDL220508R5618	0.639	10
56	2	25	906951	PS 2/56/25 CB	2CDL220508R5625	0.795	10
2-phase busbars, connection of 2-pole devices with auxiliary, end caps PS-END 3 CB							
46	2	18	906821	PS 2/46/18 H CB	2CDL220508R4618	0.672	10
46	2	25	906975	PS 2/46/25 H CB	2CDL220508R4625	0.782	10
3-phase busbars, pin distance 17.6 mm, end caps PS-END 3 CB							
57	3	18	906852	PS 3/57/18 CB	2CDL230508R5718	0.929	10
57	3	25	906999	PS 3/57/25 CB	2CDL230508R5725	1.026	10
3-phase busbars, connection of 3-pole devices with auxiliary, end caps PS-END 3 CB							
48	3	18	906876	PS 3/48/18 H CB	2CDL230508R4818	0.788	10
48	3	25	907019	PS 3/48/25 H CB	2CDL230508R4825	0.974	10
3-phase busbars, connection of 1-pole devices with auxiliary, end caps PS-END 3 CB							
39	3	18	906890	PS 3/39/18 H CB	2CDL230508R3918	0.794	10
39	3	25	907033	PS 3/39/25 H CB	2CDL230508R3925	0.974	10

Accessories

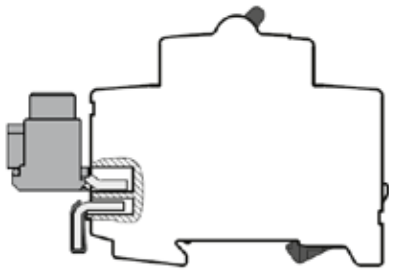
	Bbn 4016779	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
Electric shock-protection cap					
	907095	BSK CB	2CDL200508R0011	0.008	10
Feeder terminals with pin contact					
for use with MCB and 1-phase busbar	907156	AST 35/15-2 CB	2CDL202508R3515	0.025	25
for use with MCB and 2-/3-phase busbar	067904	AST 35/38-2 CB	2CDL202508R3538	0.032	10
for use with E90 and 2-/3-phase busbar	907132	AST 35/38-1 CB	2CDL201508R3538	0.032	10
for use with E90 and 1-phase busbar	907118	AST 35/15-1 CB	2CDL201508R3515	0.025	25
Single-pole terminal, can be mounted side by side, feed to the busbar pin					
	710381	SZ ESK SP	2CDL200111R5001	0.032	50
End caps					
for use with PS 1…CB	907057	PS-END 1 CB	2CDL200508R0001	0.001	50
for use with PS 2…CB and PS3…CB	907071	PS-END 3 CB	2CDL200508R0003	0.002	50

Busbars and accessories for

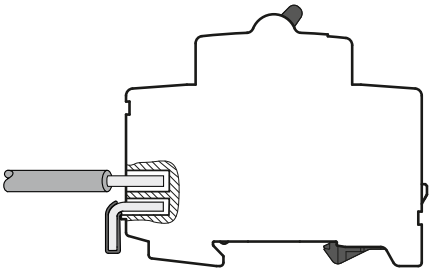
MCBs acc. UL 1077: S200, S200 M, S200 P, S200 MUC, S200 MTUC, ST200 M and Fuse Disconnectors E90

Installation of busbars and use of feeder terminals/cables for feed

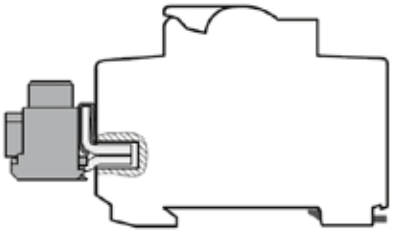
MCB with 1-phase busbar
Feeder terminal AST 35/15-2 CB



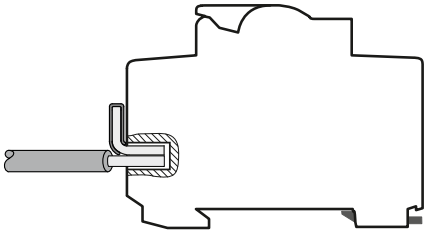
MCB with 1-phase busbar
Feed using cable



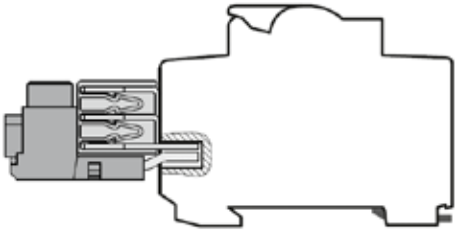
E90 with 1-phase busbar
Feeder terminal AST 35/15-1 CB



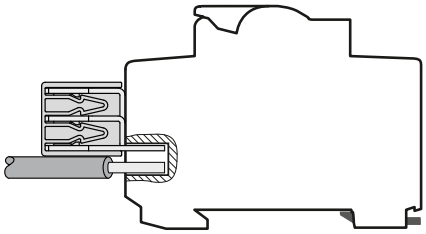
E90 with 1-phase busbar
Feed using cable



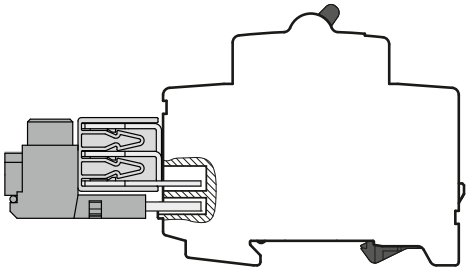
E90 with 2-/3-phase busbar
Feeder terminal AST 35/38-1 CB



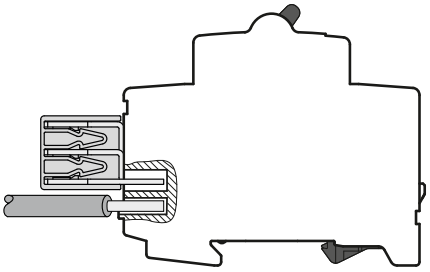
E90 with 2-/3-phase busbar
Feed using cable



MCB with 2-/3-phase busbar
Feeder terminal AST 35/38-2 CB



MCB with 2-/3-phase busbar
Feed using cable



Busbars and accessories for

MCBs and Fuseholder E90, for use in applications up to 1 000 V DC



PS2/6/16 BP

Busbars PS...DC (cuttable) for use with end caps PS-END0 and PS-END3

No. of phases	Phase secquence	Bbn 4016779 EAN	Type	Order code	Pack unit pcs.	Weight 1 pc. kg
1	L1-L1-L1...	960168	PS1/60/30DC	2CDL210130R6030	10	0.485
	L1-Aux (free)-L1-Aux (free)... 1)	960175	PS1/39/30HDC	2CDL210130R3930	10	0.435
2	L1-L2-L1-L2...	960199	PS2/60/30DC	2CDL220130R6030	10	0.94
	L1-Aux (free)-L2-Aux (free)... 1)	960212	PS2/38/30HDC	2CDL220130R3830	10	0.85

1) for devices with auxiliary contact (half module) after each phase sequence or for devices with 27 mm module width

Accessories

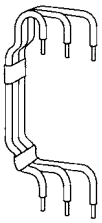
Description	bbn 4016779 EAN	Type	Order code	Pack unit pcs.	Weight 1 pc. kg
Tooth covers, for 5 pins (pin distance 17.6 mm)	420006	SZ-BSK	2CDL200001R0011	10	0,003
End caps 1-phase busbar	652261	PS-END0 2)	2CDL200001R0004	25	0.001
End caps 2-phase busbar	654302	PS-END3	2CDL200001R3001	50	0.001
Feeder terminal in combination with 1-phase busbar	962483	AST35/18DC	2CDL200130R3518	10	0.025
Feeder terminal in combination with 2-phase busbar	962490	AST35/45DC	2CDL200130R3545	10	0.032

2) 1 pair (= left and right end cap)

Notes

Accessories

for S 200, SN 201, F 200, DS 200 and other series

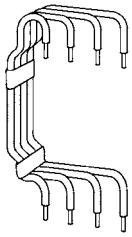


RV 3

Rail connectors

For wiring of component rails in the consumer unit, rail-to-rail clearance 125 mm. In the case of the 4-pole connector, the color of the N conductor is blue.

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
	3-pole	10		512381	RV 3	GHV0360504R0023		0.080	25
	4-pole	10		512244	RV 4	GHV0360504R0024		0.114	25



RV 4

Auxiliary contact bridge for bottom-fitting auxiliary contacts

Wire jumper for integrated auxiliary contact (MCB S200 H or auxiliary contacts S2C-H01/ S2C-H10) for series connections (HKB) or parallel connections (HKB1).

No. of pins	Phases	mm²	Cu-No.	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
			kg	EAN	Type code	Order code	piece	kg	pc.
	1/2 mod.				523134	GHV0360504R0100		0.001	1000
	1 mod.				524209	GHV0360504R0101		0.001	1000



identification label

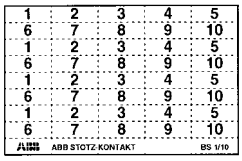
Labelling system

Package comes with 40 labels, marked or blank. Blank labels can be labeled by hand with an indelible, waterproof pen or using a computerised labelling system (plotter).

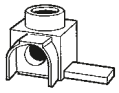
Description	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
	EAN	Type code	Order code	piece	kg	pc.
identification labels blank	478106	BS	GHS2001946R0001		0.004	30
identification labels with pictograms	478205	BS Pikto	GHS2001946R0002		0.004	30
identification labels marked 4 x 1 – 10	478304	BS 1/10	GHS2001946R0003		0.004	30
identification labels marked 2 x 1 – 20	478403	BS 1/20	GHS2001946R0004		0.004	30
identification labels marked 1 – 40	478502	BS 1/40	GHS2001946R0005		0.004	30
identification labels marked 41 – 80	585910	BS 41 – 80	GHS2001946R0006		0.004	30
identification labels marked 81 – 120	585927	BS 81 – 120	GHS2001946R0007		0.004	30
identification labels marked 121 – 160	585934	BS 121/160	GHS2001946R0008		0.004	30

Accessories

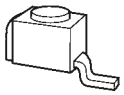
for S 200, SN 201, F 200, DS 200 and other series



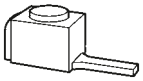
BS 1/10



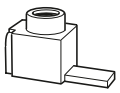
Ast 25/15 QS
Ast 25/15 Q
Ast 25/30 QS
Ast 25/30 Q
Ast 50/15 QS
Ast 50/15 Q
Ast 50/18 Q
Ast 50/32 Q



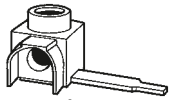
SZ-Ast 95 gk



SZ-Ast 95



Ast 25/15 S
Ast 50/15 S
Ast 50/15
Ast 50/18



Ast 50/32 Q

Identification system ILS

The ILS individual identification sytem for labels is a DIN A5 polyester film for ink jet and laser printers with high temperature resistance. (If laser printers are used, please check whether self-adhesive film with thickness of 250 µm can be fed.) Adhesive coating 3MTM9471 LE has obtained UL approval (file No. MH 11410). There are two types of sheet: uncut for making individual labels or precut with 23 stripes (6 x 191 mm each) for labelling 11 devices (1-module width) per stripe. Word template can be downloaded from www.abb.de/stotz-kontakt. Can also be used as write-on labels (ink, ballpoint pen, pencil, marker).

Description	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
1 sheet DIN A5 uncut for laser printer	663076	ILS-L	2CDL200002R0003		0.011	1
1 sheet DIN A5 precut in 23 stripes (6 x 191 mm) for laser printer	663083	ILS-LS	2CDL200002R0004		0.011	1
1 sheet DIN A5 uncut for inkjet printer	663090	ILS-I	2CDL200002R0005		0.011	1
1 sheet DIN A5 precut in 23 stripes (6 x 191 mm) for inkjet printer	663106	IILS-IS	2CDL200002R0006		0.011	1

Terminals, insulated with pin contact

Technical features			
Connection capacity	6-25 mm²	6-50 mm²	25-95 mm²
Max. electrical load	63 A	100 A	225 A
Max. operating voltage	600 V AC	600 V AC	690 V AC
Max. tightening torque	2 Nm	3 Nm	19 Nm

The terminals are single-phase. When combined in a multi-phase installation the required clearance and creepage distances needs to be considered!

Conn. capacity	Terminal lug	Type of connection	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
mm²	LxW mm		kg	EAN	Type code	Order code		kg	pc.
6-25	14/6	90°	0.012	656535	Ast 25/15 QS	2CDL200010R2515			50
6-25	15/4	straight	0.012	656542	Ast 25/15 S	2CDL200011R2515			50
6-25	13.5/7	90°	0.012	656474	Ast 25/15 Q	2CDL200000R2515			50
6-25	22/4	90°	0.012	669436	Ast 25/22 QS	2CDL200010R2522			50
6-25	30/4	90°	0.012	656481	Ast 25/30 QS	2CDL200010R2530			50
6-25	30/6	90°	0.014	656498	Ast 25/30 Q	2CDL200000R2530			50
6-50	13.5/4	90°	0.014	656504	Ast 50/15 QS	2CDL200000R5015			50
6-50	14/4	straight	0.014	656566	Ast 50/15 S	2CDL200011R5015			50
6-50	15/7	90°	0.014	656559	Ast 50/15 Q	2CDL200010R5015			50
6-50	15/7	straight	0.014	656511	Ast 50/15	2CDL200001R5015			50
5-50	17.5/7	90°	0.019	656580	Ast 50/18 Q	2CDL200100R5018			50
6-50	17.5/7	straight	0.019	656573	Ast 50/18	2CDL200101R5018			50
6-50	32/6	90°	0.017	656528	Ast 50/32 Q	2CDL200000R5032			50
25-95	21/6.5	straight	0.06	522618	SZ-Ast 95 gk*	GHV0360501R0012		0.067	50
25-95	21/6.5	straight	0.06	522625	SZ-Ast 95*	GHV0360501R0013		0.067	50

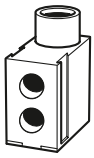
Abbreviations: Q terminal 90° * not for pro M compact S narrow connection pin

Accessories

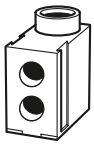
for S 200, SN 201, F 200, DS 200 and other series



SZ-ESK 2



SZ-ESK 3



SZ-ESK 3 S

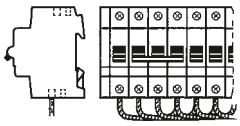


SZ-DB 121



SZ-DB 232 N

SZ-DB 125 N



example 1
wiring of devices
consisting of modules
with different lengths
with SZ-DB 125 N or 312

Feeder terminals

Single-pole terminals can be mounted side by side with multipole terminals.

Conn. capacity	Terminal lug	Type of connection	Cu-No.	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
mm²	LxW mm		kg	EAN	Type code	Order code		kg	pc.
6-35				646765	SZ-ESK 2	2CDL200001R3501		0.024	10
6-50				652575	SZ-ESK 3	2CDL200003R5001		0.025	10
6-50				652889	SZ-ESK 3 S	2CDL200003R5003		0.024	10

Flexible connecting wires

Advantages: smaller dimensions for the same cross-section (more space in terminal)
nearly no transition resistances
more reliability; conductor sleeves could be loosen under specific conditions

with fork-type cable lug (black)

Conn. capacity	Lenght		Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
mm²			EAN	Type code	Order code		kg	pc.
6	125	0.006	556502	SZ-DB 121	GHV0361425R0001		0.025	1000/50
10	135	0.010	556700	SZ-DB 122 N	GHV0361425R0031		0.02	500/25
6	260	0.014	556809	SZ-DB 231 N	GHV0361425R0032		0.02	500/25
10		0.022	556908	SZ-DB 232 N	GHV0361425R0033		0.04	250/25
10	330	0.029	557004	SZ-DB 311	GHV0361425R0034		0.05	100/25

with fork-type cable lug and ultrasonic compacted cable ends (black)

Conn. capacity	Lenght		Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
mm²			EAN	Type code	Order code		kg	pc.
6	125	0.007	556601	SZ-DB 123	GHV0361425R0006		0.01	1000/50
10	135	0.012	557103	SZ-DB 124 N	GHV0361425R0035		0.02	500/25
6	260	0.014	557202	SZ-DB 235	GHV0361425R0036		0.02	500/25
10		0.024	557301	SZ-DB 236	GHV0361425R0037		0.04	250/25

with ultrasonic compacted cable ends (black)

Conn. capacity	Lenght		Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
mm²			EAN	Type code	Order code		kg	pc.
6	125	0.007	557400	SZ-DB 125 N	GHV0361425R0038		0.01	1000/50
6	260	0.015	557509	SZ-DB 233 N	GHV0361425R0039		0.02	500/25
10	135	0.013	557608	SZ-DB 126 N	GHV0361425R0040		0.02	500/25
10	260	0.025	557707	SZ-DB 234 N	GHV0361425R0041		0.04	250/25
10	330	0.032	557806	SZ-DB 312	GHV0361425R0042		0.05	100/25

with ultrasonic compacted cable ends (blue)

Conn. capacity	Lenght		Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
mm²			EAN	Type code	Order code		kg	pc.
10	135	0.013	663526	SZ-DB 10/135 N	2CDL200301R0135		0.02	25
10	260	0.025	663533	SZ-DB 10/260 N	2CDL200301R0260		0.04	25
10	330	0.032	663540	SZ-DB 10/330 N	2CDL200301R0330		0.05	25

Accessories

for S 200, SN 201, F 200, DS 200 and other series



SZ-6/3



SZ-KLB 8, 12, 16, 24



SZ-Ktr



SZ-Ktr with KLB



SZ-N6/3



SZ-N11/3

Neutral and protective-conductor terminals with insulation holder for quick fastening onto DIN rails EN 50 022

Input	Output	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
mm²	mm²	EAN	Type code	Order code	piece	kg	pc.
1 x 16	6 x to 16	50592 5a	SZ-6/3	GHV0360876R0003		0.022	10
1 x 16	2 x to 16 6 x to 10	59660 7	SZ-KLB 8	GJI2320131R0001		0.025	30
1 x 16	2 x to 16 10 x to 10	59530 3	SZ-KLB 12	GJI2320071R0013		0.035	30
1 x 35	4 x to 16 12 x to 10	59540 2	SZ-KLB 16	GJI2320072R0017		0.077	30
1 x 35	4 x to 16 20 x to 10	59550 1	SZ-KLB 24	GJI2320073R0016		0.100	30

Holders for SZ-KLB terminals

Screw-fixing

SZ-KLB 8 and 12 each 1 piece required

SZ-KLB 16 and 24 each 2 pieces required

Conn. capacity	Lenght	Bbn 4012233	Order details		Price 1	Weight 1 piece	Pack unit
mm²		EAN	Type code	Order code	piece	kg	pc.
		59450 4	SZ-Ktr	GJI2024027R0001		0.003	100

Neutral and protective-conductor terminals with insulation holder for quick fastening onto DIN rails EN 50 022

Neutral with blue insulation holder; type C finger safe, conductor opening closed on one side

Input	Output	Bbn 4012233	Order details		Price 1	Weight 1 piece	Pack unit
mm²	mm²	EAN	Type code	Order code	piece	kg	pc.
1 x 16	6 x 16	55570 3	SZ-N 6/3	GHV0360876R0001		0.027	20
1 x 16	11 x 16	55580 2	SZ-N 11/3	GHV0360876R0002		0.043	20
1 x 16	6 x 16	57095 4 ①	SZ-N 6/3 C	GHV0360876R0011		0.028	20
1 x 16	6 x 16	57096 1 ①	SZ-N 11/3 C	GHV0360876R0012		0.046	20

Protective conductor with green/yellow insulation holder; type C finger safe, conductor opening closed on one side

Conn. capacity	Lenght	Bbn 4012233	Order details		Price 1	Weight 1 piece	Pack unit
mm²		EAN	Type code	Order code	piece	kg	pc.
1 x 16	6 x 16	55600 7	SZ-PE 6/3	GHV0360876R0004		0.027	20
1 x 16	11 x 16	55610 6	SZ-PE 11/3	GHV0360876R0005		0.043	20
1 x 16	6 x 16	57097 8 ①	SZ-PE 6/3 C	GHV0360876R0014		0.028	20
1 x 16	11 x 16	57098 5 ①	SZ-PE 11/3 C	GHV0360876R0015		0.046	20

① bbn-No. 4016779

Accessories

for S 200, SN 201, F 200, DS 200 and other series



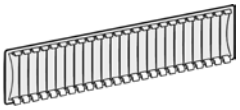
SZ-BP 1



SZ-B



SZ-BP 2



SZ-BP 12 G



SZ-BP R



SZ-VP 1500



END



SZ-FDT 2

Blanking plates

For device covers with materials of a thickness of 1 to 3 mm, width: 1 module = 17.5 mm; color: grey RAL 7035, white RAL 9001

Input	Output	Bbn 4012233	Order details		Price 1	Weight 1 piece	Pack unit
mm²	mm²	EAN	Type code	Order code	piece	kg	pc.
46/grey	213	06050 4	SZ-BP 1	GHL5301904R0001		0.028	100
46/white	17.5	12857 4 a	SZ-BP	GHS2701913R0001		0.005	
46/grey	17.5	12861 1 a	SZ-BP 2	GHS2701913R0002		0.005	
46/grey	220	65227 8 a	SZ-BP 12 G	2CDL000001R1220		0.022	50
46/white	220	66355 7 b	SZ-BP 12 W	2CDL000001R2220		0.020	50

	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Locking devices for SZ-BP 12 G	652285 a	SZ-BP R	2CDL000001R1001		0.001	30

Sealing plate

Seal-proof locking of stamped-out device covers.
Detachable only from the inside of the device cover.
Can be used for device covers with 1.5 to 3 mm material thickness.

Height of cutout/color	Width	Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
mm	mm	EAN	Type code	Order code		kg	pc.
46/grey	1500	60290 2	SZ-VP 1500	GJI9959038R0001		0.366	10

End bracket

Prevents lateral shifting of built-in devices mounted on DIN rails according to DIN EN 60 715, 35 x 7.5 mm.

	Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	59090 2	END	GJI1001814R0001		0.02	50

Filling piece

e.g. for heat dissipation of closely mounted devices that generate much heat. Width 8.75 mm, as spacer, two different heights, breakable, for DIN rails according to DIN EN 60 715, 35 x 7.5 mm.

	Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
8.75	06070 2	SZ-FST 2	GHL5301908R0002		0.01	25

Spring piece

Holder for device covers, various heights available (in connection with FST 2 filling piece)

	Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	06080 1	SZ-FDT 2	GHL5301908R0005		0.002	25

Accessories

for S 200, SN 201, F 200, DS 200 and other series



SZ-FST 2 + SZ-FDT 2

Filling piece

Two different heights, breakable, for DIN rails according to DIN EN 60 715, 35 x 7.5 mm
for MCBs S 220 (3 different heights)

	Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
8.75	59410 8	SZ-FST	GJI1480003R0001		0.01	25

① bbn-Nr. 4016779



SZ-FST

Spring catch for mounting devices onto DIN rails (DIN EN 60 715, 35 x 7.5)

	Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
for screw type M4	64560 2	SZ-FB 45.53-3	GJI1842013P0003		0.03	50
for screw type M5	64580 0	SZ-FB 45.53-1	GJI1842013P0004		0.03	50



SZ-FB 45.53-1

SZ-FB 45.53-3

False poles

	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
False pole - 1 module	061304	FP1	16021765		0.01	100
False pole - 2 modules	061403	FP2	16021773		0.014	50
False pole - 4 modules	061502	FP4	16021781		0.022	30
False pole - 6 modules	061601	FP6	16021799		0.031	20
Support for false pole	061700	SFP	16021831		0.012	10





FP

Accessories

for S 200, SN 201, F 200, DS 200 and other series





SKV-GTS 1



SZ-SI 45.460



SZ-TS 7.5 L2



SZ-SI 45.472



SZ-TS 15 L2

DIN rails

DIN rails (DIN EN 60 715 – 35 x 7.5) for individual installation with 2 screws on an even surface (1 module = 17.5 mm)

	Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
for 1 module	13580 6	DSW 1	GHS2101926R0001		0.060	10
for 2 modules	13590 5	DSW 2	GHS2101926R0002		0.012	10
for 3 modules	13600 1	DSW 3	GHS2101926R0003		0.018	10
for 4 modules	13610 0	DSW 4	GHS2101926R0004		0.024	10
for 6 modules	13620 9	DSW 6	GHS2101926R0006		0.036	10

DIN rail DIN EN 60 715, 35 x 7.5, material thickness 1 mm, surface protected, galvanised.

	Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
241	04090 2	SKV-GTS 1	GHL1101915R0001		0.09	40

DIN rails DIN EN 60 715, 35 x 7.5, material thickness 1 mm, surface galvanised.

	Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
1000	59730 7	SZ-SI 45.460	GJI2322218R0001		0.35	10
2000	59760 4	SZ-TS 7.5 L2	GJI2322218R0007		0.70	20

DIN rails DIN EN 60 715, 35 x 15, material thickness 1.5 mm, surface galvanised

	Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
2000	59780 2	SZ-SI 45.472	GJI2322218R0010		1.30	10
2000	59770 3	SZ-TS 15 L2	GJI2322218R0009		0.78	10

Accessories

for S 200, SN 201, F 200, DS 200 and other series



S2C-DH

Rotary operating mechanism (usable just with S200 devices)

For the actuation of 2-, 3- or 4pole miniature circuit-breakers in closed distribution boards for driveaxles of 5 or 6 mm²

	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	57960 5	S2C-DH	GHS2001901R0003		0.175	1

Note: S2C-DH cannot be used on DS200

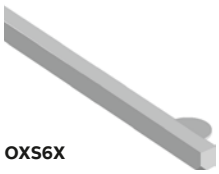


OH

Handles

Handle IP 65, 65 x 65 mm, padlockable with max. 3 padlocks (bail diameter 5 - 8 mm), door interlock in ON-position, adjustable*

Color	Suitable for switches	Bbn 6417019	Order details		Price 1 piece	Weight 1 piece	Pack unit
		EAN	Type code	Order code		kg	pc.
Black	OT16...40F	40978 8	OHBS2AJ	1SCA105213R1001			1
Yellow-red	OT16...40F	41226 9	OHYS2AJ	1SCA105296R1001			1
Silver	OT16...40F	41199 6	OHSS2AJ	1SCA105278R1001			1
Grey	OT16...40F	41186 6	OHGS2AJ	1SCA105265R1001			1



OXS6X

Handle IP 65, 65 x 65 mm, padlockable with max. 3 padlocks (bail diameter 5 - 8 mm), door interlock in ON-position

Color	Suitable for switches	Bbn 6417019	Order details		Price 1 piece	Weight 1 piece	Pack unit
		EAN	Type code	Order code		kg	pc.
Black	OT16...40F	41140 8	OHBS2AJ1	1SCA105215R1001			1
Yellow-red	OT16...40F	41227 6	OHYS2AJ1	1SCA105297R1001			1
Silver	OT16...40F	41210 8	OHSS2AJ1	1SCA105279R1001			1
Grey	OT16...40F	41187 3	OHGS2AJ1	1SCA105266R1001			1

* OH_2_J enables selection of MCB behavior when opening panel door (remain switched on or switch off).
OH_2_J1 will cause MCB to switch off when opening panel door.

Axle extension

Type and order numbers are for one piece. For selector type handles. Shaft diameter 6 mm.

Lenght	Suitable for switches	Bbn 6417019	Order details		Price 1 piece	Weight 1 piece	Pack unit
		EAN	Type code	Order code		kg	pc.
85	OT16...40F	36571 8	OXS6X85	1SCA101647R1001		0.02	10
105	OT16...40F	42411 8	OXS6X105	1SCA108043R1001		0.02	10
120	OT16...40F	36578 7	OXS6X120	1SCA101654R1001		0.03	10
130	OT16...40F	36577 0	OXS6X130	1SCA101655R1001		0.03	10
160	OT16...40F	36580 0	OXS6X160	1SCA101656R1001		0.04	10
180	OT16...40F	36583 1	OXS6X180	1SCA101659R1001		0.04	10
250	OT16...40F	36584 8	OXS6X250	1SCA101660R1001		0.05	10
330	OT16...40F	36585 5	OXS6X330	1SCA101661R1001		0.05	10

Accessories

for S 200, SN 201, F 200, DS 200 and other series



SZ-ES 68/83

Elevation piece

Compensates for different size of built-in devices with a mounting height of 68 mm and power MCBs of series S500 (83 mm)

	Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	53390 9	SZ-ES 68/83	GHV0211425R0001		0.003	100



SA 1



SA 3



SA 2

Locking devices for MCBs, RCDs and switches

The locking devices prevent unauthorized or dangerous operation of circuit breakers' switching lever. An adaptor (SA 1) makes it possible to block the circuit breaker lever with a padlock having cross bar section or either 3 or 6 mm max. For multipole configuration it is sufficient to apply a single lock.
To purchase multiple padlocks that all have the same key use SA 2 i.
To purchase padlocks that each have a different key use SA 2.
The lock adaptor can be used for all MCBs of the S 200, S 280 series, SN201 and DSN201 series, RCCBs F200, RCBOs DS201-DS202C as well as for switches E 200.

		Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
		EAN	Type code	Order code		kg	pc.
locking devices adaptor for padlock bar	3 mm	58760 5	SA 1	GJF1101903R0001		0.004	10
	6 mm	58790 2	SA 1E	GJF1101903R0004		0.004	10
padlock with 2 keys		58770 4	SA 2	GJF1101903R0002		0.02	10
padlock, with 2 identical keys		96940 1	SA 2 i	GJF1109999R0001		0.02	10
trasparent box incl. adaptor and padlock with 3 keys		58780 3	SA 3	GJF1101903R0003		0.05	10



KA 27 H + KA 27 S

Terminal cover KA 27

Provides overall touch protection of live parts. Suitable for installations acc. to DIN EN 50274 (DIN VDE 0660 Part 514) and BGV A2.
End parts can be snapped onto mounting rails EN 60 715, 35 mm. Covers are 486 mm = 27 modules (18 mm each) long. Knockouts for each half module for individualised use.

	Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
cover, 1 piece	13630 8	KA 27 H	GHS2101933R0001		0.104	10
end part, 1 piece	13640 7	KA 27 S	GHS2101934R0001		0.027	10



PCD 2 N



PCD 4 N

Terminal covers with base plate, protection IP 40

Material: high-impact and flame-retardant (UL 94 V-0),
color: white (RAL 9016), glow-wire test 960 °C according to IEC 695-2-1
The base plate has an integrated top-hat rail for snap-on fixing of MCBs, RCDs, modular built-in devices, etc.

	Bbn 8000126	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
for 2 modules	118698	PCD 2 N	GHS2701921R0002		0.09	1
for 4 modules	118728	PCD 4 N	GHS2701921R0004		0.15	1
for 6 modules	118773	PCD 6 N	GHS2701921R0006		0.2	1

Accessories

for S 200, SN 201, F 200, DS 200 and other series



ME

Flanges

	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Flange for rear board fixing 1 module - IP40	304401	ME 1	16219300		0.040	1
Flange for rear board fixing 2 modules - IP40	304500	ME 2	16219318		0.045	1
Flange for rear board fixing 3 modules - IP40	304609	ME 3	16219326		0.055	1
Flange for rear board fixing 4 modules - IP40	304708	ME 4	16219334		0.060	1
Flange for rear board fixing 6 modules - IP40	304807	ME 6	16219342		0.070	1
Flange for rear board fixing 8 modules - IP40	304906	ME 8	16219359		0.080	1

Auxiliary elements for
S750 DR series



S750DR-AUX

S750DR-AUX

Electrical data									
Standards		DIN EN 62019 (VDE 0640), IEC/EN 62019							
		DIN EN 60947-5-1 (VDE 0660-200), IEC/EN 60947-5-1							
Conventional free air thermal current Ith		6 A							
Utilisation categories		AC14		AC15		DC12		DC13	
	Ue	400 V	230 V	400 V	230 V	250 V	125 V	60 V	24 V
	Ie (max)	2 A	6 A	2 A	6 A	0.5 A	1.5 A	2 A	4 A
Rated insulation voltage U acc. to IEC/EN 60664-1		690 V AC							
Overvoltage category		IV							
Pollution Degree		3							
Protection degree acc. to IEC/EN 60529		IP20							
Min. switching power DC		5V DC/5 mA, 12V DC/5 mA							
Rated impuls withstand voltage Uimp (1.2/50 µs)		6 kV							
Installation									
Cross-section of	1 conductor	0.75 - 2.5 mm² solid, flexibel with and without insulated ferrule conductors							
	2 conductor	2 x 0.75 - 2 x 2.5 mm² solid, flexibel with and without insulated ferrule							
Tightening torque		0.8 Nm							
Mechanical data									
Vibration resistance according to IEC/ EN 60 068-2-6		5 g, 20 cycles at 5 ...150...5 Hz with 24 V AC/DC, 5 mA, without switching operation							
Mechanical endurance		10,000 ops.							
Pole dimensions (H x D x W)		128 x 77 x 8.7							
Mounting									
		Only 1 auxiliary contact mountable on the right site							
		Not mountable to S751DR/3							



S750DR-AUX

Auxiliary contact S750DR-AUX

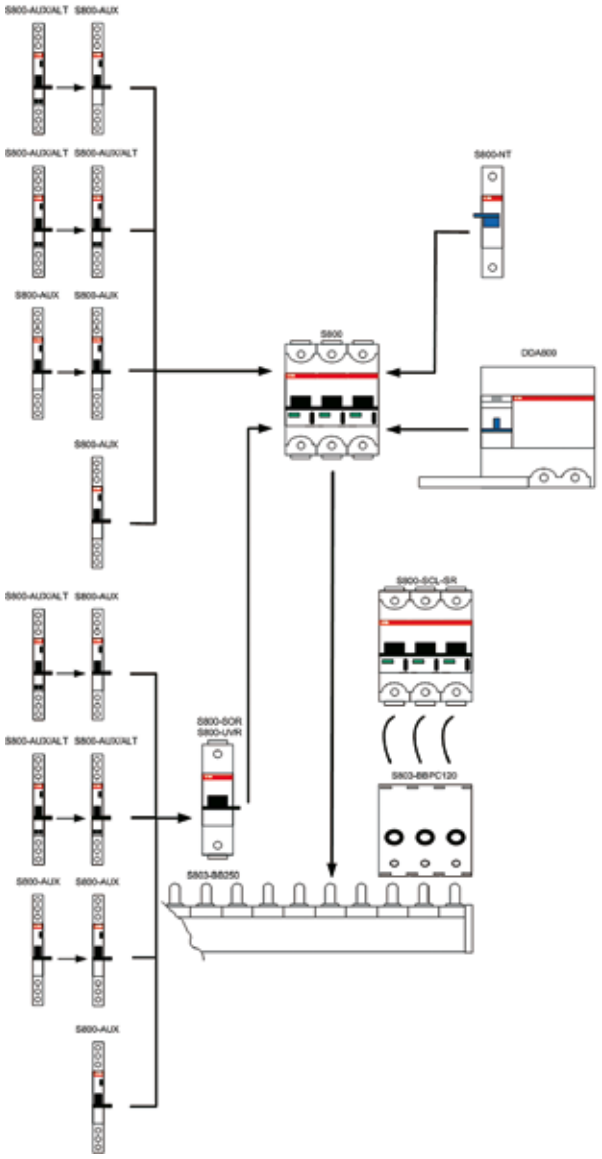
Two change-over contacts indicate the contact position of the S750 DR pole(s) independently and potential-free. A test button can be used to verify the correct indication of the contact position without switching the pole(s).
The change-over contacts fulfill the requirements of electrical separation of the main circuit connected to the pole(s).
The S750DR-AUX can be mounted on S750 DR 1-4 pole-devices without tools.

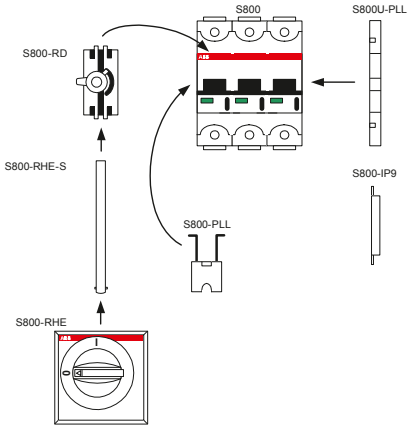
	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Auxiliary contact	941891	S750DR-AUX	2CDH700901R0001		0.07	1

Auxiliary elements for MCBs S800 series

Selection table

Combination between auxiliary elements and S800





S800-AUX	Auxiliary contact for external display
S800-AUX/ALT	Combined auxiliary and signal contact for the external display
S800-NT	Disconnectable neutral conductor 63A
S800-SOR	Shunt opening release
DDA800	RCD block
S803-BB	Busbar system
S800RD	Rotary drive
S800-RHE	Rotary handle
S800-IP	Intermediate piece
S800-PLL/S800U-PLL	Padlock device/Locking device for American market
S800-UVR	Undervoltage release
S800-SCL-SR	Short-circuit current limiter self resetting

Auxiliary elements for S800

S800-AUX



S800-AUX

S800-AUX

Auxiliary contact for external display

The S800-AUX auxiliary contact is for electrical display of the operating state of the high performance MCB. Both changeover contacts always switch simultaneously with the live conductor contact and detect the following operating states:

- Manual tripping
- Tripping due to thermal overload
- Tripping due to magnetic overload (short-circuit)

Mode of function of the test button

The test button is operated by a tool and allows the user to simulate the mode of function of the auxiliary contact when switched on without tripping the high performance MCB itself.

Mode of function of the two changeover contacts

- Off position of the high performance MCB — contacts 11–12 and 21–22 closed
- On position of the high performance MCB — contacts 11–14 and 21–24 closed

Mounting ability of the auxiliary contact

- Two S800-AUX auxiliary contacts can be mounted by the user at the left on the high performance MCB.

Auxiliary contact S800-AUX		
Utilisation categories compliant to IEC 60947-5-1		AC15 400/2 A, AC15 240/6 A, DC13 250/0.55 A, DC13 125 V/1.1 A, DC13 60 V/2 A, DC13 24 V/4 A
Rated values compliant to UL 489		125 VAC/6 A, 250 VAC/5 A, 24 V DC/4 A, 125 V DC/0.3 A, 250 V DC/0.15 A
Conventional free air thermal current I_{th}	A	6
Minimum operational current I_{min}	mA	3
Minimum operational voltage U_{min}	V	24
Rated insulation voltage U_i	V	690
Number of contacts		2
Rated impulse withstand voltage U_{imp}	kV	6
Pollution degree		3
Standard		IEC 60947-5-1 / UL 489
Contact function		Changeover contact
Connection C_u	mm^2	1 x 2.5 2 x 1.5 14 AWG
Tightening torque	Nm	1
AC/DC feed		any
Mounting on DIN top hat rail		EN 60715
Protection category		IP20
Permissible operating ambient temperature	°C	-25 ... +60
Storage temperature	°C	- 40 ... +70
Mech. lifetime of device		6000 switching cycles
I_{cu}	A	1000
Vibration resistance		IEC 60068-2-6; EN 61373 Cat.1/Class B 5 g, 20 frequency cycle 5 ... 150 ... 5 Hz at 24 V AC/DC, 5 mA short-term interruption <10 ms

	GTIN 761227	Order details		Price 1	Weight 1 piece	Pack unit
Article	**EAN**	**Type code**	**Order code**	**piece**	**kg**	**pc.**
Auxiliary contact	1206802	S800-AUX	2CCS800900R0011		0.05	1

Auxiliary elements for S800

S800-AUX/ALT



S800-AUX/ALT

S800-AUX/ALT
Combined auxiliary and signal contact for the external display
The S800-AUX/ALT combined auxiliary and signal contact is used for electrical signaling of the operating state of the high performance MCB.
The AUX auxiliary contact always switches simultaneously with the live conductor contact and detect the following forms of tripping:
- Manual switch on/off
- Tripping due to thermal overload
- Tripping due to magnetic overload (short-circuit)
- Tripping by S800-SOR or S800-UVR

The ALT signal contact detects the following forms of tripping of the high performance MCB:
- Tripping due to thermal overload
- Tripping due to magnetic overload (short-circuit)
- Tripping by S800-SOR or S800-UVR

Mode of function of the test button
The test button is operated by a tool and allows the user to simulate the mode of function of the combined auxiliary and signal contact when switched on without tripping the high performance MCB itself.

Mode of function of the ALT reset button
The reset button, which can be used at will, resets the ALT signal contact after a tripping.
The high performance MCB is switched on independent of the state of the ALT signal contact.

Mode of function of the AUX changeover contact

• Off position of the high performance MCB	Contact 11–12 closed
• On position of the high performance MCB	Contact 11–14 closed

Mode of function of the ALT changeover contact

• No ALT tripping	Contact 95–96 closed
• ALT tripping	Contact 95–98 closed

Auxiliary elements for S800

S800-AUX/ALT



S800-AUX/ALT

Technical data

Combined auxiliary and signal contact S800-AUX/ALT		
Utilisation categories compliant to IEC 60947-5-1		AC15 400/2 A, AC15 240/6 A DC13 250/0.55 A DC13 125 V/1.1 A DC13 60 V/2 A DC13 24 V/4 A
Rated values compliant to UL 489		125 VAC/6 A 250 VAC/5 A 24 V DC/4 A 125 V DC/0.3 A 250 V DC/0.15 A
Conventional free air thermal current I_{th}	A	6
Minimum operational I_{min}	mA	3
Minimum operational voltage U_{min}	V	24
Rated insulation voltage U_i	A	690
Number of contacts		2 (1x AUX, 1x AUX/ALT)
Rated impulse withstand voltage U_{imp}	kV	6
Pollution degree		3
Standard		IEC 60947-5-1 / UL 489
Contact function		Changeover contact
Connection C_u	mm^2	1 x 2.5 2 x 1.5 14 AWG
Tightening torque	Nm	1
AC/DC feed.		any
Mounting on DIN top hat rail		EN 60715
Protection category		IP20
Permissible operating ambient temperature	°C	-25 ... +60
Storage temperature	°C	-40 ... +70
Mech. lifetime of device		6000 switching cycles
I_{cu} with S450E	A	1000
Vibration resistance		IEC 60068-2-6; EN 61373 Cat.1/Class B 5 g, 20 frequency cycle 5 ... 150 ... 5 Hz at 24 V AC/DC, 5 mA short-term interruption <10 ms

	GTIN 761227	Order details		Price 1	Weight 1 piece	Pack unit
Article	EAN	Type code	Order code	piece	kg	pc.
Auxiliary/signal contact	1206819	S800-AUX/ALT	2CCS800900R0021		0.05	1

Auxiliary elements for S800

S800-NT



S800-NT

S800-NT
Disconnectable neutral conductor 63 A
The S800 high performance MCB is force-opened before actuating the disconnectable neutral conductor S800-NT.

Mounting ability of the S800-NT neutral conductor
The neutral conductor can be mounted by the user at the right on the high performance MCB.

	GTIN 761227	Order details		Price 1	Weight 1 piece	Pack unit
Article	**EAN**	**Type code**	**Order code**	**piece**	**kg**	**pc.**
Disconnectable neutral conductor 63 A	1208196	S800-NT	2CCS800900R0061		0.12	1

Auxiliary elements for S800

S800-RSU system



S800-RSU-H

S800-RSU-H IEC version
S800W-RSU World version
Remote Switching Units for High Performance MCB
The S800-RSU makes the use of S800 even more convenient. Driven by a brushless high precision DC motor, S800-RSU ensures fast remote-controlled operation.

Mounting ability
The S800-RSU is mountable on any multipole S800 High Performance MCB. Wiring and operation is feasible on field. The connection has to be done by a 10-pole Micro Fit 3.0 (not included in delivery). S800-RSU operated with standard MDRC pushbuttons and indicator lights or can be done via programmable logic controllers (PLCs).

Switching times

OFF –> ON from signal to contact closing	<<500 ms
ON –> OFF from signal to contact opening	<<250 ms
TRIP –> OFF –> ON from signal to contact closing	<<1500 ms

For differing requirements, please contact your local ABB partner

Safety Intelligence
- When detecting manual use, inputs are deactivated for 10 seconds
- If the spindle is rotated more than 360°, all outputs become active
- Manual switch off via lever is possible (S803, S804)
- Manual switch on via lever is not possible (S802)
- RSU is locked for five minutes after three switching attempts leading to a trip
- Mechanical fixation via lock slider blocking the spindle



S800-RSU-H-CP

S800-RSU-CP
S800-RSU cable incl. 10-pole Micro Fit 3.0 plug

Length of cable:	3 m
Cross section:	10 x 0.5 m^2

Temperature range

moving state:	–5 ºC ... +70 ºC
fixed state:	–30 ºC ... +80 ºC
Rated voltage:	300 V
Conductor resistance:	39.0 Ω/km
Approvals:	S+, UL

Auxiliary elements for S800

S800-RSU system



S800-RSU-H

Technical data

S800-RSU-H IEC version S800W-RSU World version Remote Switching Units for High Performance MCB		
Operating Voltage		24 V DC
Current Consumption I_{rms}	A	2.5
Stand-by Current	mA	< 50
Switching Time OFF-ON	ms	< 500
Switching Time ON-OFF	ms	< 250
Ambient Operation Temperature	°C	-25 ... 70
Switching Cycles over Lifetime		10.000
Standard		S800-RSU-H IEC60947-2 Annex N S800W-RSU UL489
Protection		IP20
Weight	g	300
Connection		10 pole Micro Fit 3.0

	GTIN 761227	**Order details**		**Price 1**	**Weight 1 piece**	**Pack unit**
Article	**EAN**	**Type code**	**Order code**	**piece**	**kg**	**pc.**
Remote Switching Unit* S800-RSU-H	1411244	S800-RSU-H	2CCS800900R0501		0.30	1
Remote Switching Unit* S800W-RSU	1411169	S800W-RSU	2CCS800900R0511		0.30	1
S800-RSU cable incl. plug 3 meters cable 0,5 mm² (AWG20) incl. 10-pole Micro Fit 3.0 plug	1412869	S800-RSU-CP	2CCS800900R0541		0.35	1
10-pole Micro Fit 3.0 plug	1412845	S800-RSU-P	2CCS800900R0551		0.00	1

* High performance circuit breaker is not included in delivery

Auxiliary elements for S800

S800-SOR



S800-SOR

S800-SOR

Shunt opening release

The S800-SOR shunt opening release is for remote release of the S800- high performance MCB using an electrical impulse. Operation of the trigger is guaranteed at a voltage between 70 % and 110 % of the rated mains voltage Un both for AC and DC.

Mounting ability of the S800-SOR operating current release

The S800-SOR can be mounted by the user at the left side of the high performance MCB.

Shunt release S800-SOR

		S800-SOR12	S800-SOR24	S800-SOR130	S800-SOR250	S800-SOR400
Rated operational voltage U_e	VAC/DC	12	24	48 ... 130	110 ... 250	220 ... 400
Operating range	% U_e	70 ... 110	70 ... 110	70 ... 110	70 ... 110	70 ... 110
Rated insulation voltage U_i	V	690	690	690	690	690
Coil pull in consumption	W/VA	15.5	16.6/17*	41.9 ... 307.3 42 ... 310*	23 ... 119 20 ... 105*	45 ... 148.1
Rated frequency	Hz	DC; 50/60	DC; 50/60	DC; 50/60	DC; 50/60	DC; 50/60
Pollution degree		3	3	3	3	3
Standard		IEC 60947-2/ UL 489	IEC 60947-2/ UL 489	IEC 60947-2/ UL 489	IEC 60947-2/ UL 489	IEC 60947-2/ UL 489
Connection C_u	mm^2	1 ... 25 (14-2 AWG) strand 1 ... 35 (14-3 AWG) cable	1 ... 25 (14-2 AWG) strand 1 ... 35 (14-3 AWG) cable	1 ... 25 (14-2 AWG) strand 1 ... 35 (14-3 AWG) cable	1 ... 25 (14-2 AWG) strand 1 ... 35 (14-3 AWG) cable	1 ... 25 (14-2 AWG) strand 1 ... 35 (14-3 AWG) cable
Tightening torque	Nm	3.5	3.5	3.5	3.5	3.5
AC/DC supply		any	any	any	any	any
Mounting on DIN top hat rail		EN 60715	EN 60715	EN 60715	EN 60715	EN 60715
Protection category		IP20 IP40 (actuating end only)	IP20 IP40 (actuating end only)	IP20 IP40 (actuating end only)	IP20 IP40 (actuating end only)	IP20 IP40 (actuating end only)
Permissible operating ambient temperature	°C	-25 ... +60	-25 ... +60	-25 ... +60	-25 ... +60	-25 ... +60
Storage temperature	°C	-40 ... +70	-40 ... +70	-40 ... +70	-40 ... +70	-40 ... +70
Vibration resistance		IEC 60068-2-6; EN 61373 Cat.1/ Class B	IEC 60068-2-6; EN 61373 Cat.1/ Class B	IEC 60068-2-6; EN 61373 Cat.1/ Class B	IEC 60068-2-6; EN 61373 Cat.1/ Class B	IEC 60068-2-6; EN 61373 Cat.1/ Class B

	GTIN 761227	Order details		Price 1	Weight 1 piece	Pack unit
Shunt operation release	EAN	Type code	Order code	piece	kg	pc.
12 VAC/DC	1212070	S800-SOR12	2CCS800900R0201		0,15	1
24 VAC/DC	1208318	S800-SOR24	2CCS800900R0191		0.15	1
48...130 VAC/DC	1208349	S800-SOR130	2CCS800900R0221		0.15	1
110...250 VAC/DC	1208332	S800-SOR250	2CCS800900R0211		0.15	1
220...400 VAC/DC	1208356	S800-SOR400	2CCS800900R0231		0.15	1

Auxiliary elements for S800

S800-UVR



S800-UVR

S800-UVR

Undervoltage release

The S800-UVR undervoltage release can be used as an emergency-stop cut-as by use of suitable emergency stop buttons. The undervoltage release switches the power supply to the high performance MCB off in case of a failure or if the value falls below 0.7 x Un. After tripping, the high performance MCB can be switched back on as soon as the voltage is over 0.85 x U_n.

Mounting ability of the S800-UVR undervoltage release

The S800-UVR can be mounted by the user at the left side of the high performance MCB.

Undervoltage release S800-UVR

		S800-UVR36	S800-UVR60	S800-UVR130	S800-UVR250
Rated operational voltage U_e	VAC/DC	24 ... 36	48 ... 60	110 ... 130	220 ... 250
Operating range					
open	% U_e	35 ... 70	35 ... 70	35 ... 70	35 ... 70
closed	% U_e	85	85	85	85
Rated insulation voltage U_i	V	690	690	690	690
Power loss of coil when attracted	W/VA	1.11 ... 1.14/1.2*	1.14 ... 1.25/1.3*	1.3 ... 1.41/1.4*	1.71 ... 1.91/1.9*
Rated frequency	Hz	DC; 50/60	DC; 50/60	DC; 50/60	DC; 50/60
Pollution degree		3	3	3	3
Standard		IEC 60947-2 / UL 489	IEC 60947-2 / UL 489	IEC 60947-2 / UL 489	IEC 60947-2 / UL 489
Connection C_u	mm^2	1 ... 25 (14-2 AWG) strand 1 ... 35 (14-3 AWG) cable	1 ... 25 (14-2 AWG) strand 1 ... 35 (14-3 AWG) cable	1 ... 25 (14-2 AWG) strand 1 ... 35 (14-3 AWG) cable	1 ... 25 (14-2 AWG) strand 1 ... 35 (14-3 AWG) cable
Tightening torque	Nm	3.5	3.5	3.5	3.5
AC/DC supply		any	any	any	any
Mounting on DIN top hat rail		EN 60715	EN 60715	EN 60715	EN 60715
Protection category		IP20 IP40 (actuating end only)	IP20 IP40 (actuating end only)	IP20 IP40 (actuating end only)	IP20 IP40 (actuating end only)
Permissible operating ambient temperature	°C	-25 ... +60	-25 ... +60	-25 ... +60	-25 ... +60
Storage temperature	°C	-40 ... +70	-40 ... +70	-40 ... +70	-40 ... +70
Vibration resistance		IEC 60068-2-6; EN 61373 Cat.1/Class B	IEC 60068-2-6; EN 61373 Cat.1/Class B	IEC 60068-2-6; EN 61373 Cat.1/Class B	IEC 60068-2-6; EN 61373 Cat.1/Class B

	GTIN 761227	Order details		Price 1	Weight 1 piece	Pack unit
Undervoltage release	EAN	Type code	Order code	piece	kg	pc.
24...36 VAC/DC	1208363	S800-UVR36	2CCS800900R0241		0,15	1
48...60 VAC/DC	1208370	S800-UVR60	2CCS800900R0251		0.15	1
110...130 VAC/DC	1208387	S800-UVR130	2CCS800900R0261		0.15	1
220...250 VAC/DC	1208394	S800-UVR250	2CCS800900R0271		0.15	1

Auxiliary elements for S800

S800-SCL-SR



S800S-SCL-SR

S800-SCL-SR
Self-resetting short-circuit limiter
The S800-SCL-SR can be used together with S800S High Performance MCB or Manual Motor Starters. It limits the short-circuit current until the downstream means of protection trips. Its current continuity makes it as the ideal solution for group protection. All parallel branches remain operative.
S800-SCL-SR is available at rated voltages 400/690 Vac and 580/100 Vac acc.to the type.

Self-resetting short-circuit current limiter			S800S-SCL-SR	S803W-SCL-SR
Rated operational current I_e		A	32, 63, 100	
Pole			1, 2, 3	3
Rated operational voltage U_e (AC) according to IEC 60947-2	50/60 Hz	V	400/690	690
(AC) according to UL 508	50/60 Hz	V		600
Rated insulation voltage U_i		V	690	690
Rated impulse withstand voltage U_{imp}		kV	8	8
Rated ultimate short-circuit breaking capacity				
$I_{cu} = I_{cs}$ according to IEC 60947-2 *				
(AC) 50/60 Hz 240/415 V		kA	100	100
(AC) 50/60 Hz 254/440 V		kA	100	100
(AC) 50/60 Hz 289/500 V		kA	65	65
(AC) 50/60 Hz 400/690 V		kA	50	50
Short-circuit rating according to UL 508 *				
(AC) 50/60 Hz 480 V		kA	65	65
(AC) 50/60 Hz 600 V		kA	65	65
Rated frequency		Hz	50/60	50/60
Mounting position			any	any
Connections C_u		mm^2	1 … 50 rigid (solid/ stranded)	1 … 50 rigid (solid/ stranded)
		mm^2	1 … 70 flexible	1 … 70 flexible
		AWG		14–1
Tightening torque		Nm	3.5	3.5
		in. lbs.		31
Feeding			optional	optional
Mouting on DIN top hat rail			EN 60715	EN 60715
Ambient air temperature		°C	-40 … +70	-40 … +70
		°C	-40 … +85	-40 … +85
Degree of protection			IP20	IP20
Classification acc. to NF F 16-101, NF F 16-102			I3, F2	I3, F2
Damp Heat			IEC 60068-2-30, 55 °C / 95 % r.h.	IEC 60068-2-30, 55 °C / 95 % r.h.
Vibration			IEC 60068-2-6, 5–10 Hz / 3 mm and 10–500 Hz / 2 g at 0.5 x I_e	IEC 60068-2-6, 5–10 Hz / 3 mm and 10–500 Hz / 2 g at 0.5 x I_e
Random Vibration			IEC 60068-2-64, 5–500 Hz / 2 g at 0.5 x I_e	IEC 60068-2-64, 5–500 Hz / 2 g at 0.5 x I_e
Resistance to climatic conditions			IEC 60068-2-1 /-2-2 /-2-30	IEC 60068-2-1 /-2-2 /-2-30
Standard			IEC 60947-2 IEC 60947-4-1	IEC 60947-2 IEC 60947-4-1 UL 508, CSA 22.2 No. 14

* Valid only for approved combinations

Please refer to section B of the catalogue

Auxiliary elements for S800

S800-SCL-SR



S800S-SCL-SR

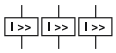
S803HV-SCL-SR in combination with S803HV-K		
General data		
Standard		IEC 60947-2
Poles		3
Rated frequency f	Hz	50/60
Data acc. to IEC 60947-2		
Rated operational voltage U_e	V	AC 580/1000
Rated operational current I_n	A	32, 63, 100
Rated ultimate short-circuit breaking capacity I_{cu}	kA	15
Rated service short-circuit capacity I_{cs}	kA	10
Rated insulation voltage U_i	V	AC 1000
Rated impulse withstand voltage U_{imp}	kV	8
Mechanical data		
Housing		Material group I, RAL 7035
Toggle		black, lockable
Protection degree acc. to IEC / EN 60529		IP20; IP40 (actuating side only)
Classification acc. to NF F16-101, NF F 16-102		I3, F2
Classification acc. to IEC 61373 (shock and vibration)		Cat. 1, Class B
Shock resistance acc. to IEC / EN 60068-2-27		Test Ea: 5 g / 30 ms
Vibration resistance acc. to IEC / EN 60068-2-6		Test Fc: 2–13.2 Hz / 1 mm 13.2–100 Hz / 0.7 g with load 100 % x I_e
Environmental conditions (damp heat) acc. to IEC / EN 60068-2-30		12+12 cycle with 55 °C / 90 - 96 % RH and 25 °C / 95 - 100 % RH
Environmental conditions (dry heat) acc. to IEC / EN 60068-2-2		16 hours 55 °C / 2 hours 70 °C / 55 % RH
Ambient temperature	°C	-25 ... +60
Storage temperature	°C	-40 ... +70
Installation		
Terminal		Failsafe cage terminal
Connection (top/bottom) – C_u only	mm^2	1 ... 50 solid / stranded 1 ... 70 flexible
Tightening torque	Nm	3.5
Screwdriver		POZI 2
Mounting		EN 60715
Mounting position		any
Supply side		any
Dimension and weight		
Pole dimension (H x L x W)	mm	142 x 76.5 x 26.5
Pole weight	kg	0.25

Auxiliary elements for S800

S800-SCL-SR



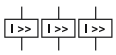
S803S-SCL100-SR



Self-resetting short-circuit limiter IEC version [A]	GTIN 7612271 EAN	Order details Type code	Order details Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
32	412012	S801S-SCL32-SR	2CCS801901R0539		0.25	1
63	412036	S801S-SCL63-SR	2CCS801901R0599		0.25	1
100	411992	S801S-SCL100-SR	2CCS801901R0639		0.25	1
32	412074	S802S-SCL32-SR	2CCS802901R0539		0.5	1
63	412098	S802S-SCL63-SR	2CCS802901R0599		0.5	1
100	412050	S802S-SCL100-SR	2CCS802901R0639		0.5	1
32	411930	S803S-SCL32-SR	2CCS803901R0539		0.75	1
63	411947	S803S-SCL63-SR	2CCS803901R0599		0.75	1
100	411954	S803S-SCL100-SR	2CCS803901R0639		0.75	1



S803W-SCL100-SR



Self-resetting short-circuit limiter World version (IEC/UL) [A]	GTIN 7612271 EAN	Order details Type code	Order details Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
32	412319	S803W-SCL32-SR	2CCS803917R0539		0.75	1
63	412326	S803W-SCL63-SR	2CCS803917R0599		0.75	1
100	412302	S803W-SCL100-SR	2CCS803917R0639		0.75	1



S803HV-SCL100-SR

Self-resetting short-circuit limiter [A]	GTIN 7612271 EAN	Order details Type code	Order details Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
32	37008	S803HV-SCL32-SR	2CCF019047R0001		0.75	1
63	37107	S803HV-SCL63-SR	2CCF019048R0001		0.75	1
100	37114	S803HV-SCL100-SR	2CCF019049R0001		0.75	1

Auxiliary elements for S800

S800-RD



S800-RD

S800-RD
Rotary drive
The rotary drive for 2–4 pole devices can be delivered for assembly on the switching field door. Switching is effortless due to the ergonomic design of the swivel lever. It is equipped with a lock for the OFF position that prevents switching on of the S800 high performance MCB.
The slot hole of the lock can accept up to 3 padlocks with lug diameters of 7 mm (not included in delivery). Operation of the trigger and a view of the characteristics are not prevented Additionally, a rotary drive can also be supplied to switch machines; it has a red grip on a yellow background.
The rotary drive on the switching field door is comprised of the following three components:

- Rotary handle S800-RHE-H, -EM
- Axle (500 mm) S800-RHE-S



S800-RD

Rotary drive adapter for 2- to 4-pole high performance MCB	GTIN 76122712 EAN	Order details Type code	Order details Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
Rotary drive	08172	S800-RD	2CCS800900R0041		0.08	1



S800-RHE-H

Anthracite/Standard rotary handle for door assembly	GTIN 80156446 EAN	Order details Type code	Order details Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
Anthracite rotary handle	25571	S800-RHE-H	1SDA060150R0001		0.02	1



S800-RHE-EM

Red/Emergency rotary handle for door assembly	GTIN 80156446 EAN	Order details Type code	Order details Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
Red rotary handle	25771	S800-RHE-EM	1SDA060151R0001		0.02	1



S800-RHE-S

Axle extension Rotary drive-rotary handle 6x6mm	GTIN 80156446 EAN	Order details Type code	Order details Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
Axial extension 500mm	26242	S800-RHE-S	1SDA060179R0001		0.2	1

IP54 kit for door mounting	GTIN 80156446 EAN	Order details Type code	Order details Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
IP54 Kit	26259	S800-RHE-IP54	1SDA060180R0001		0.08	1

Auxiliary elements for S800

S800-IP9, S800-PLL, S800U-PLL



S800-IP9

S800-IP9

Intermediate piece

The S800-IP9 intermediate piece fits the profile of the high performance MCB and is used to fill in empty device slots. Thanks to its width of just 9mm, the slots of all devices of the S800 range can be expanded using this intermediate piece.

	GTIN 76122712	Order details		Price 1	Weight 1 piece	Pack unit
Intermediate piece 9 mm	**EAN**	**Type code**	**Order code**	**piece**	**kg**	**pc.**
Intermediate piece 9 mm	08202	S800-IP9	2CCS800900R0031		0.01	1



S800-PLL

S800-PLL

Padlock device

The S800-PLL padlock device safely prevents unintentional switching on and off. Simply insert the lug of the padlock device through the borehole on the high performance MCB and lock with a padlock with lug diameter Ø 4 mm (not included in delivery). Even when the high performance MCB is secured with an padlock device against unintentional switching off, tripping remains possible in case of overload or short-circuit by the S800-SOR, S800-UVR and DDA800.

	GTIN 76122712	Order details		Price 1	Weight 1 piece	Pack unit
Padlock lever lock with hasp	**EAN**	**Type code**	**Order code**	**piece**	**kg**	**pc.**
Padlock lever lock with hasp 4 mm	08189	S800-PLL	2CCS800900R0051		0.12	10



S800U-PLL

S800U-PLL

Locking device – for the American market

The S800U-PLL locking device prevents unintentional switch-on or off of the S800U high performance MCB, or switch on/off by third parties. It is mounted at the side of the high performance MCB and can only be removed using a special tool. A standardised American padlock (not included in delivery) is hung onto the round recess on the locking device, which can be secured by max six locks. Of course, tripping is possible by the S800-SOR or S800-UVR in case of overload or short-circuit.

	GTIN 76122712	Order details		Price 1	Weight 1 piece	Pack unit
UL locking device*	**EAN**	**Type code**	**Order code**	**piece**	**kg**	**pc.**
UL locking device	15057	S800U-PLL	2CCS800017R0001		0.02	1

*High performance circuit breaker and lockout tag are not included in delivery

Auxiliary elements for S800

S800-CT, -RT, S800-ILS



S800-CT



S800-RT

S800-CT, -RT

Interchangeable adapter kit

The S800 interchangeable adapter kit allows the cable clamp – ring terminal connections to be exchanged. Ring terminal connection -> Cage Terminal connection

The following is included in the S800-CT replaceable interchangeable adapter kit:

- Cage terminal
- Insulator

Cage Terminal connection -> ring terminal connection

The following is included in the S800-RT replaceable interchangeable adapter kit:

- Nut, insulation nut – cable lug, Allen screw
- Insulator with 25 mm insulation walls

Interchangeable adapter kit	GTIN 76122712 EAN	Order details Type code	Order details Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
Cage terminal	08264	S800-CT2125	2CCS800900R0181		0.03	2
Cage terminal	08233	S800-CT4125	2CCS800900R0151		0.06	4
Ring terminal connection	08240	S800-RT2125	2CCS800900R0161		0.03	2
Ring terminal connection	08219	S800-RT4125	2CCS800900R0131		0.06	4

S800-ILS

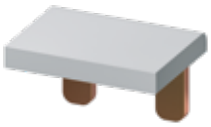
Identification labelling system

The individual identification labelling system for ILS legend plates is a DIN A5 polyester foil for inkjet and laser printers with high temperature resistance (if a laser printer is used please check whether self-sticking foils with a thickness of 250 µm can be printed with it). The 3M™9471 LE adhesive backing is UL-approved with Appl. No. MH 11410. The single plates are butt-cut on one side. Can be manually labelled with ink, pen, pencil and felt pen.

S800-ILS	GTIN 76122712 EAN	Order details Type code	Order details Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
Identification labeling system 168 x 6 x 11.5 mm	08271	S800-ILS	2CCS800900R0121		0.01	1

Auxiliary elements for S800

S802-LINK



S802-LINK50

S802-LINK50

Pole connector up to 50 A

The pole connector S802-LINK50 can be used up to 50 A.



S802-LINK125

S802-LINK125

Pole connector up to 125 A

The pole connector S802-LINK125 can be used up to 125 A.

Pole connector S802-LINK125

Rated insulation voltage U_i	V	DC 1200
Protection category	Nm	3.5
Tightening torque	in. lbs.	31

Combination S800PV-SP with S802-LINK50 / -LINK125 (devices mounted separately)

I_e [A]	10°C	15°C	20°C	25°C	30°C	35°	40°C	45°C	50°C	55°C	60°C
10	11.6	11.4	11.2	11.0	10.7	10.4	**10.0**	9.6	9.3	9.0	8.7
13	15.1	14.9	14.6	14.3	13.9	13.5	**13.0**	12.5	12.1	11.7	11.3
16	18.6	18.2	17.9	16.6	17.1	16.6	**16.0**	15.4	14..9	14.4	13.9
20	23.2	22.8	22.4	22.0	21.4	20.8	**20.0**	19.2	18.6	18.0	17.4
25	29.0	28.5	28.0	27.5	26.8	26.0	**25.0**	24.0	23.3	22.5	21.8
32	37.1	36.5	35.8	35.2	34.2	33.3	**32.0**	30.7	29.8	28.8	27.8
40	46.5	45.6	44.8	44.0	42.8	41.6	**40.0**	38.4	37.2	36.0	34.8
50	58.1	57.0	56.0	55.0	53.5	52.0	**50.0**	48.0	46.5	44.6	42.9
63	69.9	68.8	67.6	66.5	65.3	64.2	**63.0**	60.5	58.1	55.7	53.5
80	88.8	87.3	86.0	84.4	82.9	81.5	**80.0**	76.8	73.7	70.8	67.9
100	111.0	109.2	107.3	105.6	103.7	101.8	**100.0**	96.0	92.2	88.5	84.9
125	138.8	136.5	134.2	131.9	129.6	127.3	**125.0**	116.3	108.1	100.5	93.5

These values are valid for the combination with S802-LINK50

Combination S800PV-SD with S802-LINK50 / -LINK125 (devices mounted separately)

I_e [A]	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C
32	32	32	32	32	32	32	32	32	32	32	32
63	63	63	63	63	63	63	63	63	63	63	63
125	125	125	125	125	125	125	110	110	100	100	100

The tables are based on measurements using cable as stated in IEC 60947-2. Any derivation from these cable diameters and lengths might lead to higher temperatures.

Therefore ABB recommends to perform temperature measurements to verify the real maximum temperature in the application.

	GTIN 7612271	Order details		Price 1	Weight 1 piece	Pack unit
Pole connector	**EAN**	**Type code**	**Order code**	**piece**	**kg**	**pc.**
Pole connector 50 A	211295	S802-LINK50	2CCS800900R0411		0.03	10
Pole connector 125 A	419103	S802-LINK125	2CCS800900R0562		0.15	2

Auxiliary elements for S800

S800 Busbar system



S800 Busbar system

S800 Busbar system

The S800 busbar system is comprised of:

S804-BBPC120	120 mm² feed block, 4-pole
S804-BB250	250 A busbar, 4-pole and neutral with 24 contacts pins
S804-BB6	250 A busbar, 4-pole with 6 contacts pins
S803-BB250	250 A busbar, 3-pole with 24 terminal lugs and 2 end caps
S803-BBPC120	120 mm² feed block, 3-pole
S800-BBIC	Optional contact-protection cap for exposed terminal lugs
S800-END	Optional end cap

The busbar, which can be shortened in length by the user, ensures the safe and rational connection of the S800 high performance MCB. A cable cross-section of up to 120 mm² can be connected at the feed block.

Busbar S803-BB250/S804-BB250

Max. rated current I_n		
Side feed	A	125
Middle feed	A	250
Conditional rated short-circuit current	kA eff	100 with T_{max} connected upstream
Poles		3/4
Rated operational voltage U_e		
(AC) 50/60 Hz	V	400/690
Rated insulation voltage U_i	V	690
Rated impulse withstand voltage U_{imp}	kV	8
Rated frequency	Hz	50
Standard		EN/IEC 60439-2
Material of rails		E-C_u 58 half-standard, rolled F25
Material of insulation profile		Material group I; UL94 V-0
Material of end caps		Material group I; UL94 V-0 Free of halogen and phosphate
Busbar cross sections	mm²	60
Overvoltage category		III
Pollution degree		2

Feed block S803-BBPC120/S804-BBPC120

Max. rated current I_n	A	250
Poles		3/4
Rated operational voltage U_e	V	400/690
Rated frequency	Hz	50
Standard		EN/IEC 60439-2
Material of terminals		Material group I
Housing material		Material group I; UL94 V-0, Free of halogen and phosphate
Tightening torque		-
on feed side	Nm	19
on busbar side	Nm	3
Connection cross-section	mm²	1.6…120
Pollution degree		2

Auxiliary elements for S800

S800 Busbar system



S803-BB250

Busbar	GTIN 76122712 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
Busbar 250 A with 24 contacts pins, 3P	08288	S803-BB250	2CCS800900R0071		1.05	1



S804-BB250

Busbar	GTIN 76122714 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
Busbar 250 A with 24 contacts pins, 3P+N	41807	S804-BB250	2CCF019568R0001		2	1
Busbar 250 A with 6 contacts pins, 3P	41302	S803-BB6	2CCF019562R0001		0.375	1



S804-BBPC120

Feed block	GTIN 7612271 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
Feed block 4p 120 mm²	441807	S804-BBPC120	2CCF019569R0001		0.58	1
Feed block 3P 120 mm²	1208301	S803-BBPC120	2CCS800900R0101		0.46	1



S800-END

Contact-protection cover	GTIN 76122712 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
Contact-protection cover	08967	S800-BBIC	2CCS800900R0081		0.02	12

End cap	GTIN 76122712 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
End cap	08295	S800-END	2CCS800900R0091		0.04	10

Auxiliary elements for S800

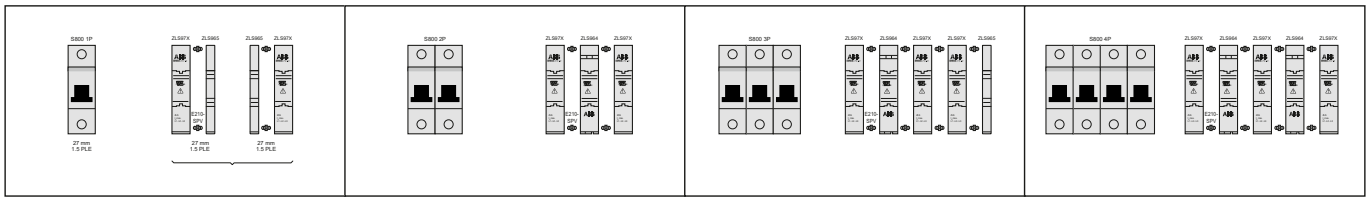
27mm wide universal adapter S800



27mm wide universal adapter S800

27mm wide universal adapter to mount S800 MCB on SMISSLINE TP system
The universal adapter with the new 9mm dummy housing is specially designed for the High performance breaker S800. This allows to have a 27mm adapter on the SMISSLINE TP busbar system. The S800 High performance MCB can be easily mounted and wired on the universal adapter. The complete unit can be clicked on to the plug-in socket system quickly and safely. The input wiring is then already finished.

- Max. Incoming 400A (T5/XT5) rated conditional short-circuit current I_{cc} 40kA (415V) with S800S
- Time-saving mounting of S800 MCB units up to 30% faster than conventional DIN rail mounting
- Input wiring is already integrated in the SMISSLINE plug-in socket system



Smissline adapter for S800 (up to 50 A)	GTIN 761227 EAN	Order details Type code	Order details Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
L1 or L2 or L3 wire bottom	1444716	ZLS973	2CCA180556R0001		0.024	10
L1 or L2 or L3 wire bottom	1444716	ZLS973	2CCA180556R0001		0.024	10
N wire top	1444723	ZLS972N	2CCA180557R0001		0.024	10
N wire bottom	1444730	ZLS973N	2CCA180558R0001		0.024	10
Dummy housing						
9mm dummy housing	1501440	ZLS965	2CCA180545R1001			5
18mm dummy housing	1444556		2CCA180550R0001		0.011	10
Connection piece (2 connectors are needed to connect)	1414801	E210-SPV	2CCC703715R0001		0.050	30

Auxiliary elements for S800

27mm wide universal adapter S800



27mm wide universal adapter S800

Unifix H

The Unifix H System with feed module up to 400 A provides the user a high standardised design of energy distribution. The wide range of assembly and adapter combinations which are also available for the S800 range increase flexibility allowing for compact and cost-effective design of the electrical distribution network. See dedicated System pro E power offering

The following adapters are available for the S800 range:

- ED2557 L1 ≤32 A
- ED2558 L2 ≤32 A
- ED2559 L3 ≤32 A
- ED2560 N ≤32 A
- ED2551 L1 125 A
- ED2552 L2 125 A
- ED2553 L3 125 A
- ED2554 N 125 A
- ED2550 filler

Plug-in systems

UNIFIX rapid wiring system

UNIFIX – Rapid Wiring System
UNIFIX makes bench pre-cabling possible, with installation in the switchboard only carried out at a later time, without any limit to the types or combination of apparatus you may need to install…and this becomes even easier, thanks to the rigid coupled connectors, standardized for the different types of apparatus.
Unifix H allows modular and moulded-case circuit-breakers up to 250A to be mounted on an apparatus frame, which can be connected directly to the rear busbar system. This means many fewer conductors circulating inside the switchboard with considerable advantages in terms of space taken up, connections needed to be checked, and cabling times, with consequent cost savings.
Unifix L means traditional wire cabling on the supply side of the circuit-breakers can be replaced. It is thanks to the characteristics of its connections that cabling can be done rapidly and without any possibility of error, obtaining a more essential switchboard without conductors and cabling ducts around. Flexibility is its strong point: several independent circuits can be realized on the same DIN rail, and circuit-breakers of different types, with different polarity and characteristics can be mounted.

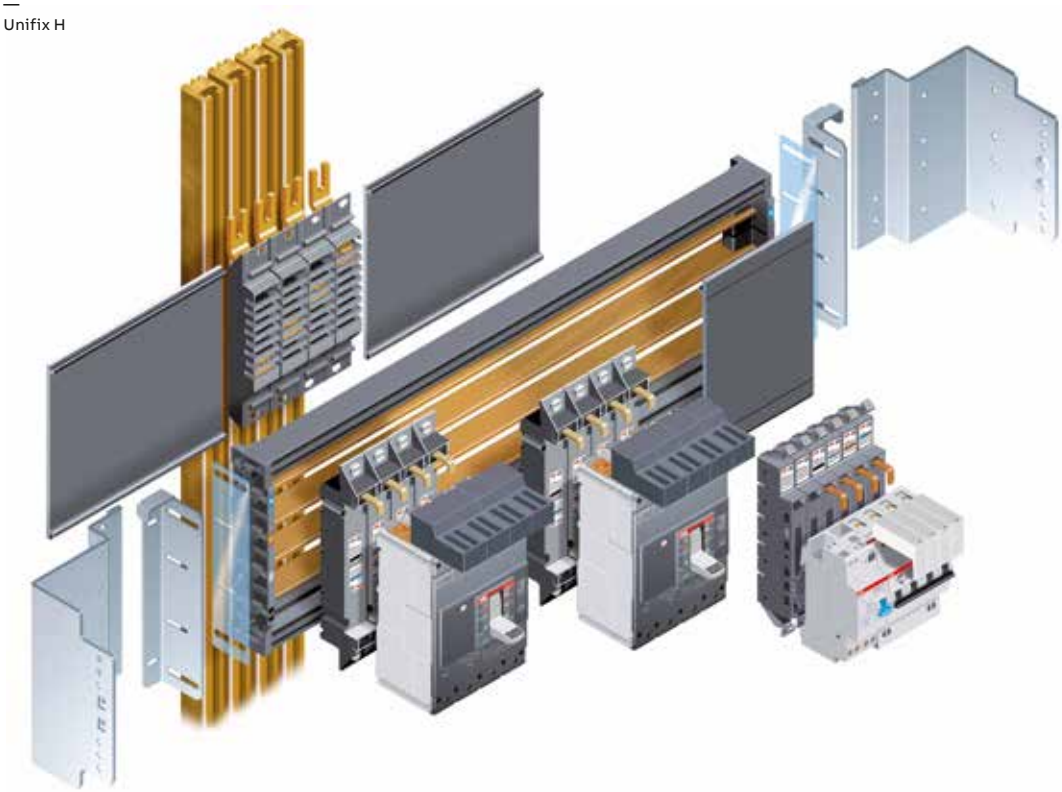
Customer Benefits with UNIFIX
Wiring Time The use of Unifix reduces considerably wiring time.
Use of Standard Devices Unifix can be applied to all standard versions of ABB Sace modular devices, Tmax T1 - T2 - T3 - XT1 - XT3 moulded-case circuit breakers
Flexible Unifix has variable modular capacity, it is possible to place both circuit-breakers with different polarities side by side on the same line and auxiliary elements.
Reduce Space Space taken up by Unifix is extremely low

For order codes and technical details please check the Distribution Switchgear Catalogue 1STC008001D0203, pages 3/19-20, 4/18-19-20, 5/50-51-52

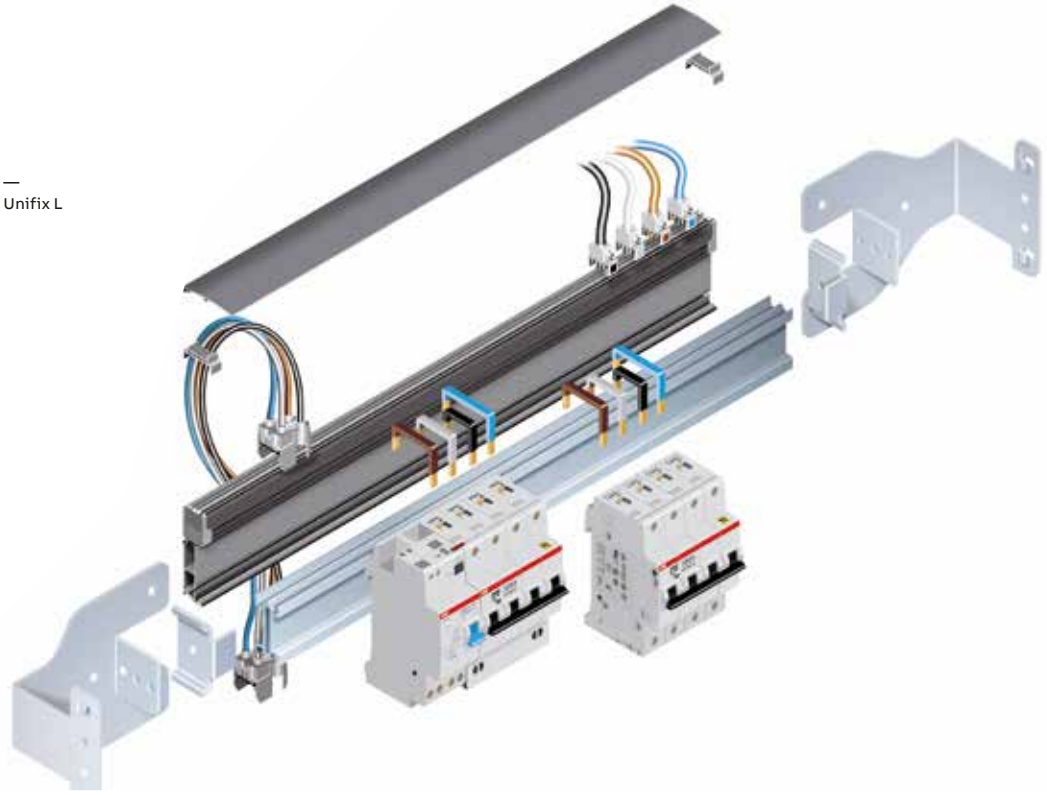
Plug-in systems

UNIFIX rapid wiring system

—
Unifix H



—
Unifix L



Electrical installation solutions for buildings
Protection and safety

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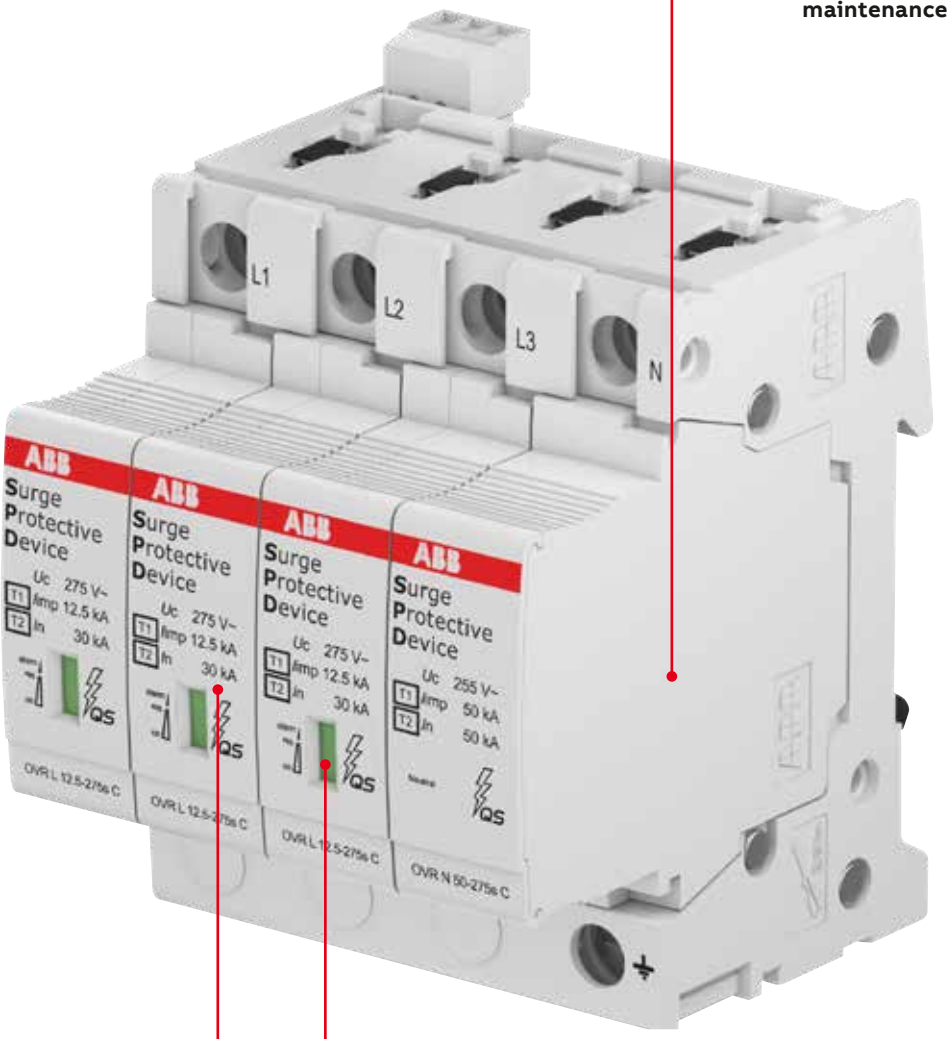
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OVR T1-T2, T2 and T2-T3 ranges. The details make the difference

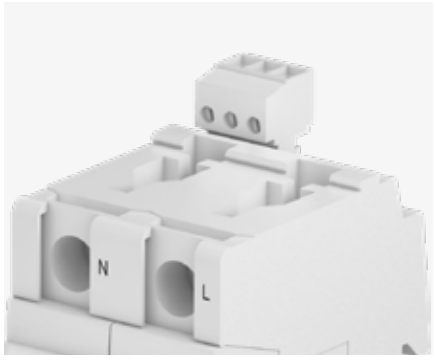
A complete range for your surge protection



Pluggable cartridge for easy replacement during maintenance operations.

Clear information on the front of the product indicating the technical characteristics of the OVR.

Safety Reserve system with two varistors per line to extend protection lifetime.



OVR T1-T2 12.5, T2 and T2-T3 ranges are using same terminal as Pro M compact devices to guarantee a complete coordination and time saving in wiring operation.



The pluggable feature of ABB **OVR T1-T2, T2 and T2-T3** surge protective devices (SPDs) facilitates maintenance. Should one or more worn cartridges need to be replaced, the wires do not have to be removed.



The end-of-life indicator of the SPD signals the status of the device.
A mechanical indicator turns from green to red when the SPD reaches the end of its life, when the end-of-life indicator is fitted.



A safety reserve system for an extended protection. T1-T2s and T2s. These Surge Protective Devices are equipped with two varistors per pole. If one varistor is damaged, the SPD gives advanced warning that it is approaching the end of its life while the other varistor continues to protect the equipment, allowing to perform Preventive Maintenance.



QuickSafe MOV technology extended to SPD dedicated to D.C photovoltaic applications, bringing seft-protected feature (no back-up needed) up to 10 kA PV short circuit current.

Protection and safety

OVR surge protective devices selection tables

Protected lines	Impulse current	Max. discharge current	Nominal current	Follow current interrupting rating	Voltage protection level	Nominal voltage	Max. cont. operating voltage	Order details	
	Iimp 10/350	Imax 8/20	In	Ifi	Up	Un	Uc		
	kA	kA	kA	kA	kV	V	V	Type code	Order code
Type T1-T2 OVR pluggable									
Uc275 V									
1	12.5	80	20	-	1.4	230	275	OVR T1-T2 12.5-275s P TS QS	2CTB815710R0000
1+1	12.5	80	20	-	1.4	230	275	OVR T1-T2 1N 12.5-275s P TS QS	2CTB815710R0100
3	12.5	80	20	-	1.4	230/400	275	OVR T1-T2 3L 12.5-275s P TS QS	2CTB815710R0600
3+1	12.5	80	20	-	1.4	230/400	275	OVR T1-T2 3N 12.5-275s P TS QS	2CTB815710R0700
4	12.5	80	20	-	1.4	230/400	275	OVR T1-T2 4L 12.5-275s P TS QS	2CTB815710R1100
1	12.5	80	20	-	1.4	230	275	OVR T1-T2 12.5-275s P QS	2CTB815710R1200
1+1	12.5	80	20	-	1.4	230	275	OVR T1-T2 1N 12.5-275s P QS	2CTB815710R1300
3	12.5	80	20	-	1.4	230/400	275	OVR T1-T2 3L 12.5-275s P QS	2CTB815710R1800
3+1	12.5	80	20	-	1.4	230/400	275	OVR T1-T2 3N 12.5-275s P QS	2CTB815710R1900
4	12.5	80	20	-	1.4	230/400	275	OVR T1-T2 4L 12.5-275s P QS	2CTB815710R2300
Uc 440 V									
1	12.5	80	20	-	1.9	400	440	OVR T1-T2 12.5-440s P TS QS	2CTB815710R2900
1+1	12.5	80	20	-	1.9	400	440	OVR T1-T2 1N 12.5-440s P TS QS	2CTB815710R3000
3	12.5	80	20	-	1.9	400/690	440	OVR T1-T2 3L 12.5-440s P TS QS	2CTB815710R3500
3+1	12.5	80	20	-	1.9	400/690	440	OVR T1-T2 3N 12.5-440s P TS QS	2CTB815710R3600
4	12.5	80	20	-	1.9	400/690	440	OVR T1-T2 4L 12.5-440s P TS QS	2CTB815710R4000
1	12.5	80	20	-	1.9	400	440	OVR T1-T2 12.5-440s P QS	2CTB815710R4100
1+1	12.5	80	20	-	1.9	400	440	OVR T1-T2 1N 12.5-440s P QS	2CTB815710R4200
3	12.5	80	20	-	1.9	400/690	440	OVR T1-T2 3L 12.5-440s P QS	2CTB815710R4700
3+1	12.5	80	20	-	1.9	400/690	440	OVR T1-T2 3N 12.5-440s P QS	2CTB815710R4800
4	12.5	80	20	-	1.9	400/690	440	OVR T1-T2 4L 12.5-440s P QS	2CTB815710R5200
Neutral									
1	50	100	50	0.1	1.4	230	275	OVR T1-T2 N 50-275s P QS	2CTB815710R5300
1	50	100	50	0.1	1.9	400	440	OVR T1-T2 N 50-440s P QS	2CTB815710R5300
Cartridges									
1	12.5	80	20	-	1.4	230	275	OVR T1-T2 12.5-275s C QS	2CTB815710R2600
1	12.5	80	20	-	1.9	400	440	OVR T1-T2 12.5-440s C QS	2CTB815710R5500
1	50	100	50	-	1.4	230	275	OVR T1-T2 N 50-275s C QS	2CTB815710R2700
1	50	100	50	-	1.9	400	440	OVR T1-T2 N 50-440s C QS	2CTB815710R5600

Protection and safety

OVR surge protective devices selection tables

Protected lines	Impulse current	Max. discharge current	Nominal current	Follow current interrupting rating	Voltage protection level	Nominal voltage	Max. cont. operating voltage	Order details	
	Iimp 10/350	Imax 8/20	In	Ifi	Up	Un	Uc		
	kA	kA	kA	kA	kV	V	V	Type code	Order code
Type 2 OVR pluggable									
Uc 275 V									
1	2	40	20	-	1.25	230	275	OVR T2 40-275 P TS QS	2CTB803871R1700
1+1	2	40	20	-	1.25	230	275	OVR T2 1N 40-275 P TS QS	2CTB803972R0500
3	2	40	20	-	1.25	230/400	275	OVR T2 3L 40-275 P TS QS	2CTB803873R2500
4	2	40	20	-	1.25	230/400	275	OVR T2 4L 40-275 P TS QS	2CTB803873R5200
1	2	40	20	-	1.25	230	275	OVR T2 40-275 P QS	2CTB803871R2300
1+1	2	40	20	-	1.25	230	275	OVR T2 1N 40-275 P QS	2CTB803972R1100
3	2	40	20	-	1.25	230/400	275	OVR T2 3L 40-275 P QS	2CTB803873R2400
4	2	40	20	-	1.25	230/400	275	OVR T2 4L 40-275 P QS	2CTB803873R5600
1	2	40	20	-	1.4	230	275	OVR T2 40-275s P TS QS	2CTB815704R0000
1+1	2	40	20	-	1.4	230	275	OVR T2 1N 40-275s P TS QS	2CTB815704R0200
3	2	40	20	-	1.4	230/400	275	OVR T2 3L 40-275s P TS QS	2CTB815704R0600
4	2	40	20	-	1.4	230/400	275	OVR T2 4L 40-275s P TS QS	2CTB815704R1100
1	2	40	20	-	1.4	230	275	OVR T2 40-275s P QS	2CTB815704R1200
1+1	2	40	20	-	1.4	230	275	OVR T2 1N 40-275s P QS	2CTB815704R1400
3	2	40	20	-	1.4	230/400	275	OVR T2 3L 40-275s P QS	2CTB815704R1800
4	2	40	20	-	1.4	230/400	275	OVR T2 4L 40-275s P QS	2CTB815704R2300
1	6.25	80	20	-	1.4	230	275	OVR T2 80-275s P TS QS	2CTB815708R0000
1+1	6.25	80	20	-	1.4	230	275	OVR T2 1N 80-275s P TS QS	2CTB815708R0200
3	6.25	80	20	-	1.4	230/400	275	OVR T2 3L 80-275s P TS QS	2CTB815708R0600
4	6.25	80	20	-	1.4	230/400	275	OVR T2 4L 80-275s P TS QS	2CTB815708R1100
1	6.25	80	20	-	1.4	230	275	OVR T2 80-275s P QS	2CTB815708R1200
1+1	6.25	80	20	-	1.4	230	275	OVR T2 1N 80-275s P QS	2CTB815708R1400
3	6.25	80	20	-	1.4	230/400	275	OVR T2 3L 80-275s P QS	2CTB815708R1800
4	6.25	80	20	-	1.4	230/400	275	OVR T2 4L 80-275s P QS	2CTB815708R2300

Protection and safety

OVR surge protective devices selection tables

Protected lines	Impulse current	Max. discharge current	Nominal current	Follow current interrupting rating	Voltage protection level	Nominal voltage	Max. cont. operating voltage	Order details	
	Iimp 10/350	Imax 8/20	In	Ifi	Up	Un	Uc		
	kA	kA	kA	kA	kV	V	V	Type code	Order code
Neutral									
1	2	80	30	0.1	1.4	230	275	OVR T2-T3 N 80-275 P QS	2CTB803973R1900
1	6.25	80	30	0.1	1.4	230	275	OVR T2 N 80-275s P QS	2CTB815708R2500
Cartridges									
1	2	80	30	-	1.4	230	275	OVR T2-T3 N 80-275 C QS	2CTB803876R0000
1	2	40	20	-	1.25	230	275	OVR T2 40-275 C QS	2CTB803876R1000
1	6.25	40	20	-	1.4	230	275	OVR T2 40-275s C QS	2CTB815704R2600
1	6.25	80	20	-	1.4	230	275	OVR T2 80-275s C QS	2CTB815708R2600
1	6.25	80	30	-	1.4	230	275	OVR T2 N 80-275s C QS	2CTB815708R2800
Uc 350V									
1	2	40	20	-	1.5	230	350	OVR T2 40-350 P QS	2CTB803881R2300
1	2	40	20	-	1.5	230	350	OVR T2 40-350 P TS QS	2CTB803881R1700
1+1	2	40	20	-	1.7	230	350	OVR T2 1N 40-350 P QS	2CTB803982R1100
1+1	2	40	20	-	1.7	230	350	OVR T2 1N 40-350 P TS QS	2CTB803982R0500
3	2	40	20	-	1.5	230/400	350	OVR T2 3L 40-350 P QS	2CTB803883R2400
3	2	40	20	-	1.5	230/400	350	OVR T2 3L 40-350 P TS QS	2CTB803883R2500
3+1	2	40	20	-	1.7	230/400	350	OVR T2 3N 40-350 P QS	2CTB803983R1100
3+1	2	40	20	-	1.7	230/400	350	OVR T2 3N 40-350 P TS QS	2CTB803983R0500
Neutral									
1	2	80	30	0.1	1.4	230	350	OVR T2 N 80-350 P QS	2CTB803983R1900
Cartridges									
1	2	80	30	0.1	1.4	230	350	OVR T2 N 80-350 C QS	2CTB803886R0000
1	2	40	20	-	1.5	230	350	OVR T2 40-350 C QS	2CTB803886R1000
Uc 440V									
1	2	40	20	-	1.8	400	440	OVR T2 40-440 P QS	2CTB803871R1200
1	2	40	20	-	1.8	400	440	OVR T2 40-440 P TS QS	2CTB803871R0500
3	2	40	20	-	1.8	400/690	440	OVR T2 3L 40-440 P TS QS	2CTB803873R2700
4	2	40	20	-	1.8	400/690	440	OVR T2 4L 40-440 P QS	2CTB803873R5100
4	2	40	20	-	1.8	400/690	440	OVR T2 4L 40-440 P TS QS	2CTB803873R5300
3+1	2	40	20	-	2.1	400/690	440	OVR T2 3N 40-440 P QS	2CTB803973R1400
3+1	2	40	20	-	2.1	400/690	440	OVR T2 3N 40-440 P TS QS	2CTB803973R1500
3	2	40	20	-	1.8	400/690	440	OVR T2 3L 40-440 P QS	2CTB803873R2800
1	2	40	20	-	1.8	400	440	OVR T2 40-440s P TS QS	2CTB815704R2900
3+1	2	40	20	-	1.8	400/690	440	OVR T2 3N 40-440s P TS QS	2CTB815704R3700
1	2	40	20	-	1.8	400	440	OVR T2 40-440s P QS	2CTB815704R4100
1	6.25	80	20	-	1.8	400	440	OVR T2 80-440s P TS QS	2CTB815708R2900
3	6.25	80	20	-	1.8	400/690	440	OVR T2 3L 80-440s P TS QS	2CTB815708R3500
3+1	6.25	80	20	-	1.8	400/690	440	OVR T2 3N 80-440s P TS QS	2CTB815708R3700
4	6.25	80	20	-	1.8	400/690	440	OVR T2 4L 80-440s P TS QS	2CTB815708R4000
1	6.25	80	20	-	1.8	400	440	OVR T2 80-440s P QS	2CTB815708R4100
3	6.25	80	20	-	1.8	400/690	440	OVR T2 3L 80-440s P QS	2CTB815708R4700
3+1	6.25	80	20	-	1.8	400/690	440	OVR T2 3N 80-440s P QS	2CTB815708R4900
4	6.25	80	20	-	1.8	400/690	440	OVR T2 4L 80-440s P QS	2CTB815708R5200
1+1	2	40	20	-	1.9	400	440	OVR T2 1N 40-440 P TS QS	2CTB803972R1400

Protection and safety

OVR surge protective devices selection tables

Protected lines	Impulse current	Max. discharge current	Nominal current	Follow current interrupting rating	Voltage protection level	Nominal voltage	Max. cont. operating voltage	Order details	
	Iimp 10/350	Imax 8/20	In	Ifi	Up	Un	Uc		
	kA	kA	kA	kA	kV	V	V	Type code	Order code
Neutral									
1	6.25	80	30	0.1	2	400	440	OVR T2 N 80-440s P QS	2CTB815708R5400
1	2	80	30	0.1	1.4	400	440	OVR T2-T3 N 80-440 P QS	2CTB803973R2000
Cartridges									
1	2	80	20	-	1.8	400	440	OVR T2 40-440 C QS	2CTB803876R0400
1	2	40	20	-	1.8	400	440	OVR T2-T3 40-440s C QS	2CTB815704R5500
1	6.25	80	20	-	1.8	400	440	OVR T2 80-440s C QS	2CTB815708R5500
1	6.25	80	30	-	1.4	400	440	OVR T2-T3 N 80-440 C QS	2CTB803886R0100
1	6.25	80	30	-	2	400	440	OVR T2 N 80-440s C QS	2CTB815708R5700
Type T2-T3 OVR Pluggable									
Uc 275V									
1	2	20	5	-	0.9	230	275	OVR T2-T3 20-275 P QS	2CTB803871R2400
1	2	20	5	-	0.9	230	275	OVR T2-T3 20-275 P TS QS	2CTB803871R2500
1+1	2	20	5	-	1.4	230	275	OVR T2-T3 1N 20-275 P QS	2CTB803972R1200
1+1	2	20	5	-	1.4	230	275	OVR T2-T3 1N 20-275 P TS QS	2CTB803972R1300
3	2	20	5	-	0.85	230/400	275	OVR T2-T3 3L 20-275 P QS	2CTB803873R3400
3	2	20	5	-	0.85	230/400	275	OVR T2-T3 3L 20-275 P TS QS	2CTB803873R3500
3+1	2	20	5	-	1.4	230/400	275	OVR T2-T3 3N 20-275 P QS	2CTB803973R1200
3+1	2	20	5	-	1.4	230/400	275	OVR T2-T3 3N 20-275 P TS QS	2CTB803973R1600
Neutral									
1	-	80	30	0.1	1.4	230	275	OVR T2-T3 N 80-275 P QS	2CTB803973R1900
Cartridges									
1	-	20	5	-	1.4	230	275	OVR T2 20-275 C QS	2CTB803876R1200
1	-	80	30	-	1.4	230	275	OVR T2-T3 N 80-275 C QS	2CTB803876R0000
Uc 440V									
1	2	20	5	-	1.4	400	440	OVR T2-T3 20-440 P QS	2CTB803871R1100
1	2	20	5	-	1.4	400	440	OVR T2-T3 20-440 P TS QS	2CTB803871R1300
3+1	2	20	5	-	1.4	400/690	440	OVR T2-T3 3N 20-440 P QS	2CTB803973R1300
Neutral									
1		80	30	0.1	1.4	400	440	OVR T2-T3 N 80-440 P QS	2CTB803973R2000
Cartridges									
1	-	80	5	-	1.4	400	440	OVR T2 20-440 C QS	2CTB803876R0600
1	-	80	30	-	1.4	400	440	OVR T2-T3 N 80-440 C QS	2CTB803886R0100

Protection and safety

OVR surge protective devices selection tables

Protected lines	Total Discharge Current	Impulse current	Max. discharge current	Nominal current	Short-circuit current rating	Voltage protection level	Nominal voltage	Max. cont. operating voltage	Order details	
	Itotal 10/350	Iimp 10/350	Imax 8/20	In	Iscpv	Up	Un	Uc		
	kA	kA	kA	kA	A	kV	V	V	Type code	Order code
Type T1-T2 OVR pluggable PV application										
Uc 1100 V DC										
1+1 DC	5	5	40	20	11.000	3.8	1000	1100	OVR PV T1-T2 5-1000 P QS	2CTB812050R1000
1+1 DC	5	5	40	20	11.000	3.8	1000	1100	OVR PV T1-T2 5-1000 P TS QS	2CTB812051R1000
1+1 DC	6,25	12.5	40	20	11.000	3.8	1000	1100	OVR PV T1-T2 12.5-1000 P QS	2CTB812120R1000
1+1 DC	6,25	12.5	40	20	11.000	3.8	1000	1100	OVR PV T1-T2 12.5-1000 P TS QS	2CTB812121R1000
Cartridges										
1+1 DC	5	5	40	20	11.000	-	1000	1100	OVR PV T1-T2 5-1000 C QS	2CTB812052R1000
1+1 DC	6,25	6,25	40	20	11.000	-	1000	1100	OVR PV T1-T2 12.5-1000 C QS	2CTB812122R1000
1+1 DC	6,25	6,25	40	20	11.000	-	1000	1100	OVR PV T1-T2 12.5-1000 M C QS	2CTB812122R1001
Uc 1500 V DC										
1+1 DC	5	5	30	20	11.000	5	1500	1500	OVR PV T1-T2 5-1500 P QS	2CTB812050R1500
1+1 DC	5	5	30	20	11.000	5	1500	1500	OVR PV T1-T2 5-1500 P TS QS	2CTB812051R1500
1+1 DC	5	10	30	20	11.000	5	1500	1500	OVR PV T1-T2 10-1500 P QS	2CTB812100R1500
1+1 DC	5	10	30	20	11.000	5	1500	1500	OVR PV T1-T2 10-1500 P TS QS	2CTB812101R1500
Cartridges										
1+1 DC	5	5	30	20	11.000	-	1500	1500	OVR PV T1-T2 5-1500 C QS	2CTB812052R1500
1+1 DC	5	5	30	20	11.000	-	1500	1500	OVR PV T1-T2 10-1500 C QS	2CTB812102R1500
1+1 DC	5	5	30	20	11.000	-	1500	1500	OVR PV T1-T2 10-1500 M C QS	2CTB812102R1501

Protection and safety

OVR surge protective devices selection tables

Protected lines	Impulse current	Max. discharge current	Nominal current	Short-circuit current rating	Voltage protec-tion level	Nominal voltage	Max. cont. operating voltage	Order details	
	Iimp 10/350	Imax 8/20	In	Iscpv	Up	Un	Uc		
	kA	kA	kA	A	kV	V	V	Type code	Order code
Type 2 OVR pluggable PV applications									
Uc 1000 V DC									
1+1 DC	-	40	20	10.000	4	1000	1000	OVR PV T2 40-1000 P	2CTB802400R1000
1+1 DC	-	40	20	10.000	4	1000	1000	OVR PV T2 40-1000 P TS	2CTB802401R1000
Cartridges									
1+1 DC	-	40	20	10.000	-	1000	1000	OVR PV T2 40-1000 C	2CTB802402R1000
Uc 1500 V DC									
1+1 DC	-	40	15	10.000	5	1500	1500	OVR PV T2 40-1500 P	2CTB802400R1500
1+1 DC	-	40	10	10.000	5	1500	1500	OVR PV T2 40-1500 P TS	2CTB802401R1500
Cartridges									
1+1 DC	2	40	10	10.000	-	1500	1500	OVR PV T2 40-1500 C	2CTB802402R1500



OVR PV T2 40-1000 P TS

Protection and safety

OVR Type 1+2 surge protective devices Single pole



OVR T1-T2 12.5-275s P QS

Technical features

Types			**OVR T1-T2 12.5-275s P QS**
with auxiliary contact (TS)			**OVR T1-T2 12.5-275s P TS QS**
Technology			Varistor
Electrical features			
Standard			IEC 61643-11/EN 61643-11:2012/A11:2018
Type/test class			T1-T2/I - II
Protected lines			1
System network			TT (L-N) - TNS - TNC
Type of current			AC 47-63 Hz
Voltage regulation of the system network			± 20 %
Nominal system voltage Un		[V]	230
Max. cont. operating voltage Uc		[V]	275
Maximum impulse current Iimp (10/350)		[kA]	12.5
Nominal discharge current In 8/20)		[kA]	20
Maximum discharge current Imax (8/20)		[kA]	80
Follow current interrupting rating Ifi		[kA]	-
Voltage protection level Up at In (L-N/N-PE/L-PE)		[kV]	1.4/-/1.4
Voltage protection level Ures at 3 kA		[kV]	0.5
TOV (Temporary overvoltage) withstand Ut (L-N: 5s./N-PE: 200ms)		[V]	337/
Response time		[ns]	< 25
Short-circuit withstand capability Isccr		[kA]	100
Backup protection maximum rating	fuse (gG)	[A]	≤ 160
	circuit breaker (B or C curve)	[A]	≤ 125
Pluggable cartridge			Yes
Integrated thermal disconnector			Yes
State indicator			Yes
Safety reserve			Yes
Auxiliary contact			Yes (TS option)
Installation			
Wire range (L, N, PE)	solid wire	[mm²]	2.5 ... 35
	stranded wire	[mm²]	2.5 ... 25
Stripping length (L, N, PE)		[mm]	12.5
Tightening torque (L, N, PE)		[Nm]	2.8
Auxiliary contact (TS)			
Contacts information			1 NO - 1 NC
Min. load			12 V DC - 10 mA
Max. load			250 V AC - 1A
Connection cross-section		[mm²]	6.5
Miscellanous characteristics			
Stocking and operating temperature		[°C]	-40 to +80
Maximal Altitude		[m]	5000
Degree of protection			IP 20 - Indoor
Fire resistance according to UL 94			V-0
Dimensions			
height x width x depth		[mm]	88 x 17.8 x 76.7
		[inches]	3.46 x 0.70 x 3.02
Dimensions with auxilary contact (TS)			
height x width x depth		[mm]	95.8 x 17.8 x 76.7
		[inches]	3.77 x 0.70 x 3.02
Replacement Cartridges			
Phase Product ID			OVR T1-T2 12.5-275s C QS 2CTB815710R2600
Neutral Product ID			-

Protection and safety

OVR Type 1+2 surge protective devices Single pole

OVR T1-T2 12.5-440s P QS	OVR T1-T2 N 50-275s P QS	OVR T1-T2 N 50-440s P QS
OVR T1-T2 12.5-440s P TS QS		
Varistor	GDT	GDT
IEC 61643-11/EN 61643-11:2012/A11:2018	IEC 61643-11/EN 61643-11:2012/A11:2018	IEC 61643-11/EN 61643-11:2012/A11:2018
T1-T2/I - II	T1-T2/I - II	T1-T2/I - II
1	N	N
TT (L-N) - TNS - TNC	TT (N-PE) - TNS (N-PE)	TT (N-PE) - TNS (N-PE)
AC 47-63 Hz	AC 47-63 Hz	AC 47-63 Hz
± 10%	± 20%	± 10%
400	230	400
440	275	440
12.5	50	50
20	50	50
80	100	100
-	-	-
1.9/-/1.9	-/1.4/-	-/1.9/-
0.5	-	-
581/	-/1200	-/1200
< 25	≤10	≤10
100	≤100	≤100
≤ 160	-	-
≤ 125	-	-
Yes	Yes	Yes
Yes	No	No
Yes	No	No
Yes	No	No
Yes (TS option)	No	No
2.5 ... 35	2.5 ... 50	2.5 ... 50
2.5 ... 25	2.5 ... 35	2.5 ... 35
12.5	12.5	12.5
2.8	3.5	3.5
1 NO - 1 NC		
12 V DC - 10 mA		
250 V AC - 1A		
6.5		
-40 to +80	-40 to +80	-40 to +80
5000	5000	5000
IP 20 - Indoor	IP 20 - Indoor	IP 20 - Indoor
V-0	V0	V0
88 x 35.6 x 76.7	88 x 17.8 x 76.7	88 x 17.8 x 76.7
3.46 x 1.4 x 3.02	3.46 x 0.7 x 3.02	3.46 x 0.7 x 3.02
95.8 x 35.6 x 76.7		
3.77 x 1.4 x 3.02		
OVR T1-T2 12.5-440s C QS 2CTB815710R5500		
-	OVR T1-T2 N 50-275s C QS 2CTB815710R2700	OVR T1-T2 N 50-440s C QS 2CTB815710R5600

Protection and safety

OVR Type 1+2 surge protective devices Single pole

Type 1+2 surge protective devices are designed to discharge high current surges without any destruction of the installation. These surge protective devices are characterized by their capacity to withstand impulse current with 10/350 µs wave form which simulate natural lightning current.
Type 1+2 ABB surge protective devices have a high impulse current withstand capacity with ensuring a low protection level (Up).
Type 1+2 SPDs can be installed at the entrance in the main switch board for a global protection of the electrical installation.

Poles	Impulse current Iimp 10/350	Max. discharge current Imax 8/20	Follow current interrupting rating Ifi	Voltage protection level Up	Nominal voltage Un	Max. cont. operating voltage Uc	Bbn 3660308	Order details		Weight 1 piece
							EAN			kg
	kA	kA	kA	kV	V	V		Type code	Order code	
1	12.5	80	-	1.4	230	275	524881	OVR T1-T2 12.5-275s P TS QS	2CTB815710R0000	0.15
1	12.5	80	-	1.4	230	275	524959	OVR T1-T2 12.5-275s P QS	2CTB815710R1200	0.15
1	12.5	80	-	1.9	400	440	525055	OVR T1-T2 12.5-440s P TS QS	2CTB815710R2900	0.30
1	12.5	80	-	1.9	400	440	525123	OVR T1-T2 12.5-440s P QS	2CTB815710R4100	0.30
1	50	100	-	1.4	230	275	525024	OVR T1-T2 N 50-275s P QS	2CTB815710R2400	0.15
1	50	100	-	1.9	400	440	525192	OVR T1-T2 N 50-440s P QS	2CTB815710R5300	0.14

Notes

Protection and safety

OVR Type 1+2 surge protective devices TNC 230 and 400 V networks

Technical features

Types			OVR T1-T2 3L 12.5-275s P QS	OVR T1-T2 3L 12.5-440s P QS
with auxiliary contact (TS)			**OVR T1-T2 3L 12.5-275s P TS QS**	**OVR T1-T2 3L 12.5-440s P TS QS**
Technology			Varistor	Varistor
Electrical features				
Standard			IEC 61643-11/EN 61643-11:2012/ A11:2018	IEC 61643-11/EN 61643-11:2012/ A11:2018
Type/test class			T1-T2/I - II	T1-T2/I - II
Protected lines			3	3
System network			TNC	TNC
Type of current			AC 47-63 Hz	AC 47-63 Hz
Voltage regulation of the system network			± 20%	± 10%
Nominal system voltage Un		[V]	230/400	400/690
Max. cont. operating voltage Uc		[V]	275	440
Maximum impulse current Iimp (10/350)		[kA]	12.5	12.5
Max.Imp current Tot Iimp (10/350)		[kA]	37.5	37.5
Nominal discharge current In (8/20)		[kA]	20	20
Maximum discharge current Imax (8/20)		[kA]	80	80
Follow current interrupting rating Ifi		[kA]	-	-
Voltage protection level Up at In (L-N/N-PE/L-PE)		[kV]	-/-/1.4	-/-/2
Voltage protection level Ures at 3 kA		[kV]	0.5	0.8
TOV (Temporary overvoltage) withstand Ut (L-N: 5s./N-PE: 200ms)		[V]	337/–	581/–
Response time		[ns]	≤ 25	≤ 25
Short-circuit withstand capability Isccr		[kA]	100	100
Backup protection maximum rating	fuse (gG)	[A]	≤ 160	≤ 160
	circuit breaker (B or C)	[A]	≤ 125	≤ 125
Pluggable cartridge			Yes	Yes
Integrated thermal disconnector			Yes	Yes
State indicator			Yes	Yes
Safety reserve			Yes	Yes
Auxiliary contact			Yes (TS option)	Yes (TS option)
Installation				
Wire range (L, N, PE)	solid wire	[mm²]	2.5 … 35	2.5 … 35
	stranded wire	[mm²]	2.5 … 25	2.5 … 25
Stripping length (L, N, PE)		[mm]	12.5	12.5
Tightening torque (L, N, PE)		[Nm]	2.8	2.8
Auxiliary contact (TS)				
Contacts information			1 NO - 1 NC	1 NO - 1 NC
Min. load			12 DC - 10 mA	12 DC - 10 mA
Max. load			250 V AC - 1A	250 V AC - 1A
Connection cross-section		[mm²]	1.5	1.5
Miscellanous characteristics				
Stocking and operating temperature		[°C]	-40 to +80	-40 to +80
Maximal Altitude		[m]	5000	5000
Degree of protection			IP 20 - Indoor	IP 20 - Indoor
Fire resistance according to UL 94			V-0	V-0
Dimensions				
height x width x depth		[mm]	88 x 53.4 x 76.7	88 x 106.8 x 76.7
		[inches]	3.46 x 2.1 x 3.02	3.46 x 4.2 x 3.02
Dimensions with auxilary contact (TS)				
height x width x depth		[mm]	95.8 x 53.4 x 76.7	95.8 x 106.8 x 76.7
		[inches]	3.77 x 2.1 x 3.02	3.77 x 4.2 x 3.02
Replacement Cartridges				
Phase Product ID			OVR T1-T2 12.5-275s C QS 2CTB815710R2600	OVR T1-T2 12.5-440s C QS 2CTB815710R5500

Protection and safety

OVR Type 1+2 surge protective devices TNC networks



Type 1+2 surge protective devices are designed to discharge high current surges without any destruction of the installation. These surge protective devices are characterized by their capacity to withstand impulse current with 10/350 µs wave form which simulate natural lightning current.
Type 1+2 ABB surge protective devices have a high impulse current withstand capacity with ensuring a low protection level (Up).
Type 1+2 SPDs can be installed at the entrance in the main switch board for a global protection of the electrical installation.

Poles	Impulse current Iimp 10/350	Max discharge current Imax 8/20	Voltage protection level Up	Nominal voltage Un	Max. cont. operating voltage Uc	Bbn 3660308	Order details		Weight 1 piece
	kA	kA	kV	V	V	EAN	Type code	Order code	kg
3	12.5	80	1.4	230/400	275	524911	OVR T1-T2 3L 12.5-275s P TS QS	2CTB815710R0600	0.45
3	12.5	80	1.4	230/400	275	524980	OVR T1-T2 3L 12.5-275s P QS	2CTB815710R1800	0.45
3	12.5	80	1.9	400/690	440	525086	OVR T1-T2 3L 12.5-440s P TS QS	2CTB815710R3500	0.90
3	12.5	80	2	400/690	440	525154	OVR T1-T2 3L 12.5-440s P QS	2CTB815710R4700	0.90

Protection and safety

OVR Type 1+2 surge protective devices TNS/TT 230 1Ph+N and 3Ph+N networks

Technical features

Types			**OVR T1-T2 1N 12.5-275s P QS**
with auxiliary contact (TS)			**OVR T1-T2 1N 12.5-275s P TS QS**
Technology			Varistor + GDT
Electrical features			
Standard			IEC 61643-11/EN 61643-11:2012/A11:2018
Type/test class			T1-T2/I - II
Protected lines			1+1
System network			TT - TNS
Type of current			AC 47-63 Hz
Voltage regulation of the system network			± 20 %
Nominal system voltage Un		[V]	230
Max. cont. operating voltage Uc		[V]	275
Maximum impulse current Iimp (10/350)		[kA]	12.5
Max.Imp current Tot Iimp (10/350)		[kA]	25
Nominal discharge current In (8/20)		[kA]	20
Maximal discharge current Imax (8/20) kA		[kA]	80
Follow current interrupting rating Ifi		[kA]	
Voltage protection level Up at In (L-N/N-PE/L-PE)		[kV]	1.4/1.4/1.5
Voltage protection level Ures at 3 kA		[kV]	0.5
TOV (Temporary overvoltage) withstand Ut (L-N: 5s./N-PE: 200ms)		[V]	337/1200
Response time		[ns]	≤ 25
Short-circuit withstand capability Isccr		[kA]	100
Backup protection maximum rating	fuse (gG)	[A]	≤ 160
	circuit breaker (B or C curve)	[A]	≤ 125
Pluggable cartridge			Yes
Integrated thermal disconnector			Yes
State indicator			Yes
Safety reserve			Yes
Auxiliary contact			Yes (TS option)
Installation			
Wire range (L, N, PE)	solid wire	[mm²]	2.5 ... 35
	stranded wire	[mm²]	2.5 ... 25
Stripping length (L, N, PE)		[mm]	12.5
Tightening torque (L, N, PE)		[Nm]	2.8
Auxiliary contact (TS)			
Contacts information			1 NO - 1 NC
Min. load			12 V DC - 10 mA
Max. load			250 V AC - 1A
Connection cross-section		[mm²]	1.5
Miscellanous characteristics			
Stocking and operating temperature		[°C]	-40 to +80
Maximal Altitude		[m]	5000
Degree of protection			IP 20 - Indoor
Fire resistance according to UL 94			V-0
Dimensions			
height x width x depth		[mm]	88 x 35.6 x 76.7
		[in]	3.46 x 1.4 x 3.02
Dimensions with auxilary contact (TS)			
height x width x depth		[mm]	95.8 x 35.6 x 76.7
		[in]	3.46 x 1.4 x 3.02
Replacement Cartridges			
Phase Product ID			OVR T1-T2 12.5-275s C QS 2CTB815710R2600
Neutral Product ID			OVR T1-T2 N 50-275s C QS 2CTB815710R2700

Protection and safety

OVR Type 1+2 surge protective devices TNS/TT 230 1Ph+N and 3Ph+N networks

OVR T1-T2 3N 12.5-275s P QS **OVR T1-T2 3N 12.5-275s P TS QS**	**OVR T1-T2 4L 12.5-275s P QS** **OVR T1-T2 4L 12.5-275s P TS QS**
Varistor + GDT	Varistor
IEC 61643-11/EN 61643-11:2012/A11:2018	IEC 61643-11/EN 61643-11:2012/A11:2018
T1-T2/I - II	T1-T2/I - II
3+1	3+N
TT - TNS	TNS
AC 47-63 Hz	AC 47-63 Hz
± 20%	± 20%
230/400	230/400
275	275
12.5	12.5
50	50
20	20
80	80
	-
1.4/1.4/1.5	2.8/1.4/1.4
0.5	0.5
337/1200	337/
≤ 25	≤ 25
100	100
≤ 160	≤ 160
≤ 125	≤ 125
Yes	Yes
Yes	Yes
Yes	Yes
Yes	Yes
Yes (TS option)	Yes (TS option)
2.5 ... 35	2.5 ... 35
2.5 ... 25	2.5 ... 25
12.5	12.5
2.8	2.8
1 NO - 1 NC	1 NO - 1 NC
12 V DC - 10 mA	12 V DC - 10 mA
250 V AC - 1A	250 V AC - 1A
1.5	1.5
-40 to +80	-40 to +80
5000	5000
IP 20 - Indoor	IP 20 - Indoor
V-0	V-0
88 x 71.2 x 76.7	88 x 71.2 x 76.7
3.46 x 2.8 x 3.02	3.46 x 2.8 x 3.02
95.8 x 71.2 x 76.7	95.8 x 71.2 x 76.7
3.77 x 2.8 x 3.02	3.77 x 2.8 x 3.02
OVR T1-T2 12.5-275s C QS 2CTB815710R2600	OVR T1-T2 12.5-275s C QS 2CTB815710R2600
OVR T1-T2 N 50-275s C QS 2CTB815710R2700	

Protection and safety

OVR Type 1+2 surge protective devices TNS/TT 400 V 1Ph+N and 3Ph+N networks

Technical features

Types			OVR T1-T2 1N 12.5-440s P QS	OVR T1-T2 3N 12.5-440s P QS	OVR T1-T2 4L 12.5-440s P QS
with auxiliary contact (TS)			**OVR T1-T2 1N 12.5-440s P TS QS**	**OVR T1-T2 3N 12.5-440s P TS QS**	**OVR T1-T2 4L 12.5-440s P TS QS**
Technology			Varistor + GDT	Varistor + GDT	Varistor
Electrical features					
Standard			IEC 61643-11/EN 61643-11:2012/A11:2018	IEC 61643-11/EN 61643-11:2012/A11:2018	IEC 61643-11/EN 61643-11:2012/A11:2018
Type/test class			T1-T2/I - II	T1-T2/I - II	T1-T2/I - II
Protected lines			1+1	3+1	4
System network			TT- TNS	TT- TNS	TNS
Type of current			AC 47-63 Hz	AC 47-63 Hz	AC 47-63 Hz
Voltage regulation of the system network			± 10%	± 10%	± 10%
Nominal system voltage Un		[V]	400	400/690	400/690
Max. cont. operating voltage Uc		[V]	440	440	440
Maximum impulse current Iimp (10/350)		[kA]	12.5	12.5	12.5
Max.Imp current Tot Iimp (10/350)		[kA]	25	50	50
Nominal discharge current In (8/20)		[kA]	20	20	20
Maximal discharge current Imax (8/20) kA		[kA]	80	80	80
Follow current interrupting rating Ifi		[kA]			
Voltage protection level Up at In (L-N/N-PE/L-PE)		[kV]	1.9/1.9/2	1.9/1.9/2	3.8/1.9/1.9
Voltage protection level Ures at 3 kA		[kV]	0.8	0.8	0.8
TOV (Temporary overvoltage) withstand Ut (L-N: 5s./N-PE: 200ms)		[V]	581/1200	581/1200	581/
Response time		[ns]	≤ 25	≤ 25	≤ 25
Short-circuit withstand capability Isccr		[kA]	100	100	100
Backup protection maximum rating	fuse (gG)	[A]	≤ 160	≤ 160	≤ 160
	circuit breaker (B or C curve)	[A]	≤ 125	≤ 125	≤ 125
Pluggable cartridge			Yes	Yes	Yes
Integrated thermal disconnector			Yes	Yes	Yes
State indicator			Yes	Yes	Yes
Safety reserve			Yes	Yes	Yes
Auxiliary contact			Yes (TS option)	Yes (TS option)	Yes (TS option)
Installation					
Wire range (L, N, PE)	solid wire	[mm²]	2.5 ... 35	2.5 ... 35	2.5 ... 35
	stranded wire	[mm²]	2.5 ... 25	2.5 ... 25	2.5 ... 25
Stripping length (L, N, PE)		[mm]	12.5	12.5	12.5
Tightening torque (L, N, PE)		[Nm]	2.8	2.8	2.8
Auxiliary contact (TS)					
Contacts information			1 NO - 1 NC	1 NO - 1 NC	1 NO - 1 NC
Min. load			12 V DC - 10 mA	12 V DC - 10 mA	12 V DC - 10 mA
Max. load			250 V AC - 1 A	250 V AC - 1 A	250 V AC - 1 A
Connection cross-section		[mm²]	1.5	1.5	1.5
Miscellanous characteristics					
Stocking and operating temperature		[°C]	-40 to +80	-40 to +80	-40 to +80
Maximal Altitude		[m]	5000	5000	5000
Degree of protection			IP 20 - Indoor	IP 20 - Indoor	IP 20 - Indoor
Fire resistance according to UL 94			V-0	V-0	V-0
Dimensions					
height x width x depth		[mm]	88 x 53.4 x 76.7	88 x 124.6 x 76.7	88 x 142.4 x 76.7
		[in]	3.46 x 2.1 x 3.02	3.46 x 4.91 x 3.02	3.46 x 5.61 x 3.02
Dimensions with auxilary contact (TS)					
height x width x depth		[mm]	95.8 x 53.4 x 76.7	95.8 x 124.6 x 76.7	95.8 x 142.4 x 76.7
		[in]	3.77 x 2.1 x 3.02	3.77 x 4.91 x 3.02	3.77 x 5.61 x 3.02
Replacement Cartridges					
Phase Product ID			OVR T1-T2 12.5-440s C QS 2CTB815710R5500	OVR T1-T2 12.5-440s C QS 2CTB815710R5500	OVR T1-T2 12.5-440s C QS 2CTB815710R5500
Neutral Product ID			OVR T1-T2 N 50-440s C QS 2CTB815710R5600	OVR T1-T2 N 50-440s C QS 2CTB815710R5600	

Protection and safety

OVR Type 1+2 surge protective devices TNS/TT 400 V 1Ph+N and 3Ph+N networks



OVR T1-T2 1N 12.5-440s P TS QS

Type 1+2 surge protective devices are designed to discharge high current surges without any destruction of the installation. These surge protective devices are characterized by their capacity to withstand impulse current with 10/350 µs wave form which simulate natural lightning current.
Type 1+2 ABB surge protective devices have a high impulse current withstand capacity with ensuring a low protection level (Up).
Type 1+2 SPDs can be installed at the entrance in the main switch board for a global protection of the electrical installation.

Poles	Impulse current Iimp 10/350	Max. discharge current Imax 8/20	Follow current interrupting rating Ifi	Voltage protection level Up	Nominal voltage Un	Max. cont. operating voltage Uc	Bbn 3660 308	Order details		Weight 1 piece
	kA	kA	kA	kV	V	V	EAN	Type code	Order code	kg
1+1	12.5	80	-	1.4	230	275	524966	OVR T1-T2 1N 12.5-275s P QS	2CTB815710R1300	0.30
1+1	12.5	80	-	1.4	230	275	524898	OVR T1-T2 1N 12.5-275s P TS QS	2CTB815710R0100	0.30
1+1	12.5	80	-	1.9	400	440	525130	OVR T1-T2 1N 12.5-440s P QS	2CTB815710R4200	0.45
1+1	12.5	80	-	1.9	400	440	525062	OVR T1-T2 1N 12.5-440s P TS QS	2CTB815710R3000	0.45
3+1	12.5	80	-	1.4	230/400	275	524997	OVR T1-T2 3N 12.5-275s P QS	2CTB815710R1900	0.60
3+1	12.5	80	-	1.4	230/400	275	524928	OVR T1-T2 3N 12.5-275s P TS QS	2CTB815710R0700	0.60
3+1	12.5	80	-	1.9	400/690	440	525161	OVR T1-T2 3N 12.5-440s P QS	2CTB815710R4800	1.05
3+1	12.5	80	-	1.9	400/690	440	525093	OVR T1-T2 3N 12.5-440s P TS QS	2CTB815710R3600	1.05
4	12.5	80	-	1.4	230/400	275	525017	OVR T1-T2 4L 12.5-275s P QS	2CTB815710R2300	0.60
4	12.5	80	-	1.4	230/400	275	524942	OVR T1-T2 4L 12.5-275s P TS QS	2CTB815710R1100	0.60
4	12.5	80	-	1.9	400/690	440	525185	OVR T1-T2 4L 12.5-440s P QS	2CTB815710R5200	1.20
4	12.5	80	-	1.9	400/690	440	525116	OVR T1-T2 4L 12.5-440s P TS QS	2CTB815710R4000	1.20

Protection and safety

OVR Type 2 pluggable QuickSafe® surge protective devices Single pole 230 V networks

Technical features

Types			OVR T2 40-275 P QS	OVR T2 40-275s P QS
with auxiliary contact (TS)			OVR T2 40-275 P TS QS	OVR T2 40-275s P TS QS
Technology			Varistor	Varistor
Electrical features				
Standard			IEC 61643-11/EN 61643-11:2012/A11:2018	IEC 61643-11/EN 61643-11:2012/A11:2018
Type/test class			T2/II	T2/II
Protected lines			1	1
System network			TT(L-N)-TNS-TNC	TT(L-N)-TNS-TNC
Type of current			AC 47-63 Hz	AC 47-63 Hz
Voltage regulation of the system network			± 20%	± 20%
Nominal system voltage Un		[V]	230	230
Max. cont. operating voltage Uc		[V]	275	275
Nominal dc voltage Un dc L-PE		[V dc]	320	-
Max. dc. cont. operating voltage Ucdc L-PE		[V dc]	355	-
Maximum discharge current Imax (8/20)		[kA]	40	40
Maximum impulse current Iimp (10/350)		[kA]	2	2
Nominal discharge current In (8/20)		[kA]	20	20
Voltage protection level Up at In (L-N/N-PE/L-PE)		[kV]	1.25/-/1.25	1.4/-/1.4
Voltage protection level Ures at 3kA (L-N)		[kV]	0.8	0.5
Voltage protection level Ures at 5kA (L-N)		[kV]	0.85	0.7
Voltage protection level Ures at 10kA (L-N)		[kV]	1	0.9
TOV (Temporary overvoltage) withstand Ut (L-N: 5s./N-PE: 200ms)		[V]	337/-	337/-
Response time		[ns]	≤ 25	≤ 25
Short-circuit withstand capability Isccr		[kA]	100	100
Backup protection maximum rating	fuse (gG)	[A]	≤ 125	≤ 160
	circuit breaker (B or C curve)	[A]	≤ 125	≤ 125
Pluggable cartridge			Yes	Yes
Integrated QuickSafe® technology			Yes	Yes
State indicator			Yes	Yes
Safety reserve			No	Yes
Auxiliary contact			Yes (TS option)	Yes (TS option)
Installation				
Wire range (L, N, PE)	solid wire	[mm²]	2.5 ... 35	2.5 ... 35
	stranded wire	[mm²]	2.5 ... 25	2.5 ... 25
Stripping length (L, N, PE)		[mm]	12.5	12.5
Tightening torque (L, N, PE)		[Nm]	2.8	2.8
Auxiliary contact (TS)				
Contacts information			1 NO - 1 NC	1 NO - 1 NC
Min. load			12 V DC - 10 mA	12 V DC - 10 mA
Max. load			250 V AC - 1 A	250 V AC - 1 A
Connection cross-section		[mm²]	1.5	1.5
Miscellanous characteristics				
Stocking and operating temperature		[°C]	-40 to +80	-40 to +80
Maximal Altitude		[m]	5000	5000
Degree of protection			IP 20	IP 20
Fire resistance according to UL 94			V0	V0
Dimensions				
height x width x depth		[mm]	88 x 17.8 x 65.3	88 x 17.8 x 76.7
		[inches]	3.46 x 0.7 x 2.57	3.46 x 0.7 x 3.02
With Auxiliary Contact (TS)				
height x width x depth		[mm]	95.8 x 17.8 x 65.3	95.8 x 17.8 x 76.7
		[inches]	3.77 x 0.7 x 2.57	3.77 x 0.7 x 3.02
Replacement Cartridges				
Phase Product ID			OVR T2 40-275 C QS 2CTB803876R1000	OVR T2 40-275s C QS 2CTB815704R2600
Neutral Product ID			-	-

Protection and safety

OVR Type 2 pluggable QuickSafe® surge protective devices Single pole 230 V networks

OVR T2 40-350 P QS **OVR T2 40-350 P TS QS**	**OVR T2 80-275s P QS** **OVR T2 80-275s P TS QS**	**OVR T2-T3 N 80-275 P QS**	**OVR T2 N 80-350 P QS**	**OVR T2 N 80-275s P QS**
Varistor	Varistor	GDT	GDT	GDT
IEC 61643-11/EN 61643-11:2012/A11:2018	IEC 61643-11/EN 61643-11:2012/A11:2018	IEC 61643-11/EN 61643-11:2012/A11:2018	IEC 61643-11/EN 61643-11:2012/A11:2018	IEC 61643-11/EN 61643-11:2012/A11:2018
T2/II	T2/II	T2-T3/II-III	T2/II	T2
1	1	1	1	1
TT(L-N)-TNS-TNC	TT(L-N)-TNS-TNC	TT (N-PE)-TNS(N-PE)	TT (N-PE)-TNS(N-PE)	TT(N-PE)-TNS(N-PE)
AC 47-63 Hz	AC 47-63 Hz	AC 47-63 Hz	AC 47-63 Hz	AC 47-63 Hz
± 50%	± 20%	± 20%	± 50%	± 20%
230	230	230	230	230
350	275	275	350	275
375	-	-	-	-
415	-	-	-	-
40	80	80	80	80
2	6.25	2	2	6.25
20	20	30	30	30
1.5/-/1.5	1.4/-/1.4	-/1.4/-	-/1.4/-	-/1.4/-
1	0.5	-	-	-
1.05	0.7	-	-	-
1.2	0.9	-	-	-
455/-	337/	-/1200	-/1200	-/1200
≤ 25	≤ 25	< 25	< 25	< 25
100	100	-	-	100
≤ 125	≤ 160	≤ 125	≤ 125	≤160
≤ 125	≤ 125	≤ 125	≤ 125	≤125
Yes	Yes	Yes	Yes	Yes
Yes	Yes	-	-	-
Yes	Yes	No	No	No
No	Yes	No	No	No
Yes (TS option)	Yes (TS option)	No	No	No
2.5 ... 35	2.5 ... 35	2.5 ... 35	2.5 ... 35	2.5 ... 35
2.5 ... 25	2.5 ... 25	2.5 ... 25	2.5 ... 25	2.5 ... 25
12.5	12.5	12.5	12.5	15
2.8	2.8	2.8	2.8	3.5
1 NO- 1 NC	1 NO- 1 NC	-	-	-
12 V DC - 10 mA	12 V DC - 10 mA	-	-	-
250 V AC - 1 A	250 V AC - 1 A	-	-	-
1.5	1.5	-	-	-
-40 to +80	-40 to +80	-40 to +80	-40 to +80	-40 to +80
5000	5000	5000	5000	5000
IP 20	IP 20 - Indoor	IP 20 - Indoor	IP 20 - Indoor	IP 20 - Indoor
V0	V-0	V-0	V-0	V0
88 x 17.8 x 65.3	88 x 17.8 x 76.7	88 x 17.8 x 65.3	88 x 17.8 x 65.3	88 x 17.8 x 76.7
3.46 x 0.7 x 2.57	3.46 x 0.7 x 3.02	3.46 x 0.7 x 3.02	3.46 x 0.7 x 3.02	3.45 x 0.7 x 3.02
95.8 x 17.8 x 65.3	95.8 x 17.8 x 76.7	-	-	-
3.77 x 0.7 x 2.57	3.77 x 0.7 x 3.02	-	-	-
OVR T2 40-350 C QS 2CTB803886R1000	OVR T2 80-275s C QS 2CTB815708R2600	-	-	-
-	-	OVR T2-T3 N 80-275 C QS 2CTB803876R0000	OVR T2 N 80-350 C QS 2CTB803886R0000	OVR T2 N 80-275s C QS 2CTB815708R2800

Protection and safety

OVR Type 2 pluggable QuickSafe® surge protective devices Single pole 230 V networks



OVR T2 40-275 P QS

Type 2 surge protective devices are designed to protect electric installations and sensitive equipment against indirect surges with ensuring a low protection level (Up). They are characterized by their capacity to safely discharge current with 8/20 µs wave form.

Type 2 pluggable

Poles	Max discharge current Imax 8/20	Nominal discharge current In	Voltage protection level Up	Nominal voltage Un	Max. cont. operating voltage Uc	Bbn 3660308	Order details		Weight 1 piece
	kA	kA	kV	V	V	EAN	Type code	Order code	kg
1	40	20	1.25	230	275	519580	OVR T2 40-275 P QS	2CTB803871R2300	0.12
1	40	20	1.25	230	275	519597	OVR T2 40-275 P TS QS	2CTB803871R1700	0.12
1	40	20	1.4	230	275	525291	OVR T2 40-275s P QS	2CTB815704R1200	0.15
1	40	20	1.4	230	275	525222	OVR T2 40-275s P TS QS	2CTB815704R0000	0.15
1	40	20	1.5	230	350	520609	OVR T2 40-350 P QS	2CTB803881R2300	0.12
1	40	20	1.5	230	350	520562	OVR T2 40-350 P TS QS	2CTB803881R1700	0.12
1	80	20	1.4	230	275	525475	OVR T2 80-275s P QS	2CTB815708R1200	0.15
1	80	20	1.4	230	275	525406	OVR T2 80-275s P TS QS	2CTB815708R0000	0.15
1	80	30	1.4	230	275	519658	OVR T2 N 80-350 P QS	2CTB803983R1900	0.12
1	80	30	1.4	230	275	519641	OVR T2-T3 N 80-275 P QS	2CTB803973R1900	0.12
1	80	30	1.4	230	275	525536	OVR T2 N 80-275s P QS	2CTB815708R2500	0.12

Notes

Protection and safety

OVR Type 2 pluggable QuickSafe® surge protective devices Single pole 400 V networks

Technical features

Types			OVR T2 40-440 P QS	OVR T2 40-440s P QS
with auxiliary contact (TS)			OVR T2 40-440 P TS QS	OVR T2 40-440s P TS QS
Technology			Varistor	Varistor
Electrical features				
Standard			IEC 61643-11/EN 61643-11:2012/A11:2018	IEC 61643-11/EN 61643-11:2012/A11:2018
Type/test class			T2/II	T2/II
Protected lines			1	1
System network			TNC - TT(L-N) - TNS - IT (230 V)	TNC - TT(L-N) - TNS - IT (230 V)
Type of current			AC 47-63 Hz	AC 47-63 Hz
Voltage regulation of the system network			± 10%	± 10%
Nominal system voltage Un		[V]	400	400
Max. cont. operating voltage Uc		[V]	440	440
Nominal dc voltage Un dc L-PE		[V dc]	495	-
Max. dc. cont. operating voltage Ucdc L-PE		[V dc]	545	-
Maximum discharge current Imax (8/20)		[kA]	40	40
Maximum impulse current Iimp (10/350)		[kA]	2	2
Nominal discharge current In (8/20)		[kA]	20	20
Voltage protection level Up at In (L-N/N-PE/L-PE)		[kV]	1.8/-/1.8	1.8/-/1.8
Voltage protection level Ures at 3kA (L-N)		[kV]	1.25	0.8
Voltage protection level Ures at 5kA (L-N)		[kV]	1.35	1.2
Voltage protection level Ures at 10kA (L-N)		[kV]	1.55	1.55
TOV (Temporary overvoltage) withstand Ut (L-N: 5s./N-PE: 200ms)		[V]	581/-	581/-
Uoc		[kV]	-	-
Response time		[ns]	≤ 25	≤ 25
Short-circuit withstand capability Isccr		[kA]	100	100
Backup protection maximum rating	fuse (gG)	[A]	≤ 125	≤ 160
	circuit breaker (B or C curve)	[A]	≤ 125	≤ 125
Pluggable cartridge			Yes	Yes
Integrated QuickSafe® technology			Yes	Yes
State indicator			Yes	Yes
Safety reserve			No	Yes
Auxiliary contact			Yes (TS option)	Yes (TS option)
Installation				
Wire range (L, N, PE)	solid wire	[mm²]	2.5 ... 35	2.5 ... 35
	stranded wire	[mm²]	2.5 ... 25	2.5 ... 25
Stripping length (L, N, PE)		[mm]	12.5	12.5
Tightening torque (L, N, PE)		[Nm]	2.8	2.8
Auxiliary contact (TS)				
Contacts information			1 NO - 1 NC	1 NO - 1 NC
Min. load			12 V DC - 10 mA	12 V DC - 10 mA
Max. load			250 V AC - 1 A	250 V AC - 1A

Protection and safety

OVR Type 2 pluggable QuickSafe® surge protective devices Single pole 400 V networks

OVR T2 80-440s P QS **OVR T2 80-440s P TS QS**	**OVR T2-T3 N 80-440 P QS**	**OVR T2 N 80-440s P QS**
Varistor	GDT	GDT
IEC 61643-11/EN 61643-11:2012/A11:2018	IEC 61643-11/EN 61643-11:2012/A11:2018	IEC 61643-11/EN 61643-11:2012/A11:2018
T2/II	T2-T3/II-III	T2
1	1	1
TNC -TT(L-N) - TNS - IT (230 V)	TT (N-PE)-TNS(N-PE)	TT(N-PE)-TNS(N-PE)
AC 47-63 Hz	AC 47-63 Hz	AC 47-63 Hz
± 10%	± 10%	± 10%
400	400	400
440	440	440
-	-	-
-	-	-
80	80	80
6.25	2	6.25
20	30	30
1.8/-/1.8	-/1.4/-	-/2/-
0.8	-	-
1.2	-	-
-	-	-
581/-	-/1200	-/1200
-	-	
≤ 25	< 25	< 25
100	-	100
≤ 160	≤ 125	≤ 160 A
≤ 125	≤ 125	≤ 160 A
Yes	Yes	No
Yes	Yes	-
Yes	Yes	No
Yes	No	No
Yes (TS option)	No	No
2.5 ... 35	2.5 ... 35	2.5 ... 35
2.5 ... 25	2.5 ... 25	2.5 ... 25
12.5	12.5	15
2.8	2.8	3.5
1 NO - 1 NC	-	-
12 V DC - 10 mA	-	-
250 V AC - 1A	-	-

Protection and safety

OVR Type 2 pluggable QuickSafe® surge protective devices Single pole 400 V networks

Technical features

Types		**OVR T2 40-440 P QS**	**OVR T2 40-440s P QS**
with auxiliary contact (TS)		**OVR T2 40-440 P TS QS**	**OVR T2 40-440s P TS QS**
Connection cross-section	[mm²]	1.5	1.5
Miscellanous characteristics			
Stocking and operating temperature	[°C]	-40 to +80	-40 to +80
Maximal Altitude	[m]	5000	5000
Degree of protection		IP 20	IP 20
Fire resistance according to UL 94		V0	V-0
Dimensions of packing			
height x width x depth	[mm]	88 x 17.8 x 65.3	88 x 17.8 x 76.7
	[inches]	3.46 x 0.7 x 2.57	3.46 x 0.7 x 3.02
With Auxiliary Contact (TS)			
height x width x depth	[mm]	95.8 x 17.8 x 65.3	95.8 x 17.8 x 76.7
	[inches]	3.77 x 0.7 x 2.57	3.77 x 0.7 x 3.02
Replacement Cartridges			
Phase Product ID		OVR T2 40-440 C 2CTB803876R0400	OVR T2 40-440s C QS 2CTB815704R5500
Neutral Product ID		-	-

Protection and safety

OVR Type 2 pluggable QuickSafe® surge protective devices Single pole 400 V networks

OVR T2 80-440s P QS	OVR T2-T3 N 80-440 P QS	OVR T2 N 80-440s P QS
OVR T2 80-440s P TS QS		
1.5		1.5
-40 to +80	-40 to +80	-40 to +80
5000	5000	5000
IP 20	IP 20	IP 20
V-0	V-0	V0
88 x 17.8 x 76.7	88 x 17.8 x 65.3	88 x 17.8 x 76
3.46 x 0.7 x 3.02	3.46 x 0.7 x 2.57	3.46 x 0.7 x 2.99
95.8 x 17.8 x 76.7		
3.77 x 0.7 x 3.02		
OVR T2 80-440s C QS 2CTB815708R5500	-	
-	OVR T2-T3 N 80-440 C QS 2CTB803886R0100	OVR T2 N 80-440s C QS 2CTB815708R2800

Type 2 surge protective devices are designed to protect electric installations and sensitive equipment against indirect surges with ensuring a low protection level (Up). They are characterized by their capacity to safely discharge current with 8/20 µs wave form.

Type 2 pluggable

Poles	Max discharge current Imax 8/20	Nominal discharge current In	Voltage protection level Up	Nominal voltage Un	Max. cont. operating voltage Uc	Bbn 3660308	Order details		Weight 1 piece
	kA	kA	kV	V	V	EAN	Type code	Order code	kg
1	40	20	1.8	400	440	519627	OVR T2 40-440 P QS	2CTB803871R1200	0.12
1	40	20	2	400	440	519634	OVR T2 40-440 P TS QS	2CTB803871R0500	0.12
1	40	20	1.8	400	440	525338	OVR T2 40-440s P QS	2CTB815704R4100	0.30
1	40	20	1.8	400	440	525369	OVR T2 40-440s P TS QS	2CTB815704R2900	0.30
1	80	20	1.8	400	440	525567	OVR T2 80-440s P QS	2CTB815708R4100	0.30
1	80	20	1.8	400	440	525567	OVR T2 80-440s P TS QS	2CTB815708R2900	0.30
1	80	30	1.4	400	440	519665	OVR T2-T3 N 80-440 P QS	2CTB803973R2000	0.12
1	80	30	2	400	440	525642	OVR T2 N 80-440s P QS	2CTB815708R5400	0.12

Protection and safety

OVR Type 2 pluggable QuickSafe® surge protective devices
TNC 230 V networks

Technical features

Types			OVR T2 3L 40-275 P QS	OVR T2 3L 40-275s P QS	OVR T2 3L 80-275s P QS	OVR T2 3L 40-350 P QS
with auxiliary contact (TS)			OVR T2 3L 40-275 P TS QS	OVR T2 3L 40-275s P TS QS	OVR T2 3L 80-275s P TS QS	OVR T2 3L 40-350 P TS QS
Technology			Varistor	Varistor	Varistor	Varistor
Electrical features						
Standard			IEC 61643-11/ EN 61643-11:2012/ A11:2018	IEC 61643-11/ EN 61643-11:2012/ A11:2018	IEC 61643-11/ EN 61643-11:2012/ A11:2018	IEC 61643-11/ EN 61643-11:2012/ A11:2018
Type/test class			T2/II	T2/II	T2/II	T2/II
Protected lines			3	3	3	3
System network			TNC	TNC	TNC	TNC
Type of current			AC 47-63 Hz	AC 47-63 Hz	AC 47-63 Hz	AC 47-63 Hz
Voltage regulation of the system network			± 20%	± 20%	± 20%	± 50%
Nominal system voltage Un (L-PEN/L-L)		[V]	230/400	230/400	230/400	230/400
Max. cont. operating voltage Uc		[V]	275	275	275	350
Nominal dc voltage Un dc L-PE/Un dc L-L		[V dc]	320/640	-	-	375/750
Max. dc. cont. operating voltage Ucdc L-PE/Ucdc L-L		[V dc]	355/710	-	-	415/830
Maximum discharge current Imax (8/20)		[kA]	40	40	80	40
Maximum impulse current Iimp (10/350)		[kA]	2	2	6.25	2
Nominal discharge current In (8/20)		[kA]	20	20	20	20
Voltage protection level Up at In (L-PE)		[kV]	1.25	1.4	1.4	1.5
Voltage protection level Ures at 3kA		[kV]	0.8	0.5	0.5	1.0
Voltage protection level Ures at 5kA		[kV]	0.85	0.7	0.7	1.05
Voltage protection level Ures at 10kA		[kV]	1.0	0.9	0.9	1.2
TOV (Temporary overvoltage) withstand Ut (L-N: 5s./N-PE: 200ms)		[V]	337/-	337/-	337/-	455/-
Uoc		[kV]	-	-	-	-
Response time		[ns]	≤ 25	≤ 25	≤ 25	≤ 25
Short-circuit withstand capability Isccr		[kA]	100	100	100	100
Backup protection maximum rating	fuse (gG)	[A]	≤ 125	≤ 160	≤ 160	≤ 125
	circuit breaker (B or C curve)	[A]	≤ 125	≤ 125	≤ 125	≤ 125
Pluggable cartridge			Yes	Yes	Yes	Yes
Integrated QuickSafe® technology			Yes	Yes	Yes	Yes
State indicator			Yes	Yes	Yes	Yes
Safety reserve			No	Yes	Yes	No
Auxiliary contact			Yes (TS option)	Yes (TS option)	Yes (TS option)	Yes (TS option)
Installation						
Wire range (L, N, PE)	solid wire	[mm²]	2.5 ... 35	2.5 ... 35	2.5 ... 35	2.5 ... 35
	stranded wire	[mm²]	2.5 ... 25	2.5 ... 25	2.5 ... 25	2.5 ... 25
Stripping length (L, N, PE)		[mm]	12.5	12.5	12.5	12.5
Tightening torque (L, N, PE)		[Nm]	2.8	2.8	2.8	2.8
Auxiliary contact (TS)						
Contacts information			1 NO - 1 NC	1 NO - 1 NC	1 NO - 1 NC	1 NO - 1 NC
Min. load			12 DC - 10 mA	12 DC - 10 mA	12 DC - 10 mA	12 DC - 10 mA
Max. load			250 V AC - 1A	250 V AC - 1A	250 V AC - 1A	250 V AC - 1A
Connection cross-section		[mm²]	1.5	1.5	1.5	1.5
Miscellanous characteristics						
Stocking and operating temperature		[°C]	-40 to +80	-40 to +80	-40 to +80	-40 to +80
Maximal Altitude		[m]	5000	5000	5000	5000
Degree of protection			IP 20	IP 20	IP 20	IP 20
Fire resistance according to UL 94			V0	V-0	V-0	V0

Protection and safety

OVR Type 2 surge protective devices TNC 230 V networks, pluggable and non-pluggable versions

Technical features

Types		OVR T2 3L 80-275s P QS	OVR T2 3L 40-350 P QS
with auxiliary contact (TS)		OVR T2 3L 80-275s P TS QS	OVR T2 3L 40-350 P TS QS
Dimensions			
height x width x depth	[mm]	88 x 53.4 x 76.7	85 x 53.4 x 64.8
	[inches]	3.46 x 2.1 x 3.02	3.35 x 2.10 x 2.55
With Auxiliary Contact (TS)			
height x width x depth	[mm]	95.8 x 53.4 x 76.7	96 x 53.4 x 64.8
	[inches]	3.77 x 2.1 x 3.02	3.78 x 2.10 x 2.55
Replacement Cartridges			
Phase Product ID		OVR T2 80-275s C QS 2CTB8157084R2600	OVR T2 40-350 C QS 2CTB803886R1000
Neutral Product ID		-	-



OVR T2 3L 40-275 P QS

Type 2 surge protective devices are designed to protect electric installations and sensitive equipment against indirect surges with ensuring a low protection level (Up). They are characterized by their capacity to safely discharge current with 8/20 µs wave form.

Type 2 pluggable

Poles	Max discharge current Imax 8/20	Nominal discharge current In	Voltage protection level Up	Nominal voltage Un	Max. cont. operating voltage Uc	Bbn 3660308	Order details		Weight 1 piece
	kA	kA	kV	V	V	EAN	Type code	Order code	kg
3	40	20	1.25	230/400	275	519825	OVR T2 3L 40-275 P QS	2CTB803873R2400	0.36
3	40	20	1.25	230/400	275	519832	OVR T2 3L 40-275 P TS QS	2CTB803873R2500	0.36
3	40	20	1.4	230/400	275	525253	OVR T2 3L 40-275s P TS QS	2CTB815704R0600	0.45
3	40	20	1.4	230/400	275	525314	OVR T2 3L 40-275s P QS	2CTB815704R1800	0.45
3	80	20	1.4	230/400	275	525437	OVR T2 3L 80-275s P TS QS	2CTB815708R0600	0.45
3	80	20	1.4	230/400	275	525499	OVR T2 3L 80-275s P QS	2CTB815708R1800	0.45
3	40	20	1.5	230/400	350	519849	OVR T2 3L 40-350 P QS	2CTB803883R2400	0.36
3	40	20	1.5	230/400	350	519856	OVR T2 3L 40-350 P TS QS	2CTB803883R2500	0.36

Protection and safety

OVR Type 2 pluggable QuickSafe® surge protective devices
TNC 400 V networks

Technical features

Types			OVR T2 3L 40-440 P QS	OVR T2 3L 80-440s P QS
with auxiliary contact (TS)			OVR T2 3L 40-440 P TS QS	OVR T2 3L 80-440s P TS QS
Technology			Varistor	Varistor
Electrical features				
Standard			IEC 61643-11/EN 61643-11:2012/A11:2018	IEC 61643-11/EN 61643-11:2012/A11:2018
Type/test class			T2/II	T2/II
Protected lines			3	3
System network			TNC - IT (230)	TNC - IT (230)
Type of current			AC 47-63 Hz	AC 47-63 Hz
Voltage regulation of the system network			± 10%	± 10%
Nominal system voltage Un (L-PEN/L-L)		[V]	400/690	400/690
Max. cont. operating voltage Uc		[V]	440	440
Nominal dc voltage Un dc L-PE/Un dc L-L		[V dc]	495/990	-
Max. dc. cont. operating voltage Ucdc L-PE/Ucdc L-L		[V dc]	545/1090	-
Maximum discharge current Imax (8/20)		[kA]	40	80
Maximum impulse current Iimp (10/350)		[kA]	2	6.25
Nominal discharge current In (8/20)		[kA]	20	20
Voltage protection level Up at In (L-PE)		[kV]	1.8	2.1
Voltage protection level Ures at 3kA		[kV]	1.25	1.25
Voltage protection level Ures at 5kA		[kV]	1.35	1.35
Voltage protection level Ures at 10kA		[kV]	1.55	1.55
TOV (Temporary overvoltage) withstand Ut (L-N: 5s./N-PE: 200ms)		[V]	581/	581/-
Response time		[ns]	< 25	< 25
Short-circuit withstand capability Isccr		[kA]	100	100
Backup protection maximum rating	fuse (gG)	[A]	≤ 125	≤ 160
	circuit breaker (B or C curve)	[A]	≤ 125	≤ 126
Pluggable cartridge			Yes	Yes
Integrated QuickSafe® technology			Yes	Yes
State indicator			Yes	Yes
Safety reserve			No	Yes
Auxiliary contact			Yes (TS option)	Yes (TS option)
Installation				
Wire range (L, N, PE)	solid wire	[mm²]	2.5 ... 35	2.5 ... 35
	stranded wire	[mm²]	2.5 ... 25	2.5 ... 25
Stripping length (L, N, PE)		[mm]	2.8	2.8
Tightening torque (L, N, PE)		[Nm]		
Auxiliary contact (TS)			1 NO - 1 NC	1 NO - 1 NC
Contacts information			12 DC - 10 mA	12 DC - 10 mA
Min. load			250 V AC - 1A	250 V AC - 1A
Max. load			1.5	1.5
Connection cross-section		[mm²]		
Miscellanous characteristics				
Stocking and operating temperature		°C	-40 to +80	-40 to +80
Maximal Altitude		[m]	5000	5000
Degree of protection			IP 20	IP 20
Fire resistance according to UL 94			V-0	V-0
Dimensions				

Protection and safety

OVR Type 2 pluggable QuickSafe® surge protective devices
TNC 400 V networks

Technical features

Types		OVR T2 3L 40-440 P QS	OVR T2 3L 80-440s P QS
with auxiliary contact (TS)		**OVR T2 3L 40-440 P TS QS**	**OVR T2 3L 80-440s P TS QS**
height x width x depth	mm	88 x 53.4 x 65.3	88 x 53.4 x 76.7
	inches	3.46 x 2.1 x 2.57	3.46 x 2.1 x 3.02
With Auxiliary Contact (TS)			
height x width x depth	mm	95.8 x 53.4 x 65.3	95.8 x 53.4 x 76.7
	inches	3.77 x 2.1 x 2.57	3.77 x 2.1 x 3.02
Replacement Cartridges			
Phase Product ID		OVR T2 40-440 C QS 2CTB803876R0400	OVR T2 80-440s C QS 2CTB815708R5500
Neutral Product ID		-	-



OVR T2 3L 40-440 P QS

Type 2 surge protective devices are designed to protect electric installations and sensitive equipment against indirect surges with ensuring a low protection level (Up). They are characterized by their capacity to safely discharge current with 8/20 µs wave form.

Poles	Max discharge current Imax 8/20	Nominal discharge current In	Voltage protection level Up	Nominal voltage Un	Max. cont. operating voltage Uc	Bbn 3660308	Order details		Weight 1 piece
	kA	kA	kV	V	V	EAN	Type code	Order code	kg
3	40	20	1.8	400	440	519894	OVR T2 3L 40-440 P QS	2CTB803873R5100	0.45
3	40	20	1.8	400	440	519900	OVR T2 3L 40-440 P TS QS	2CTB803873R5300	0.45
3	80	20	2.1	400	440	525598	OVR T2 3L 80-440s P TS QS	2CTB815708R4000	0.45
3	80	20	2.1	400	440	525635	OVR T2 3L 80-440s P QS	2CTB815708R5200	0.45

Protection and safety

OVR Type 2 pluggable QuickSafe® surge protective devices
TNS 230 V networks

Technical features

Types			OVR T2 4L 40-275 P QS	OVR T2 4L 40-275s P QS	OVR T2 4L 80-275s P QS
with auxiliary contact (TS)			**OVR T2 4L 40-275 P TS QS**	**OVR T2 4L 40-275s P TS QS**	**OVR T2 4L 80-275s P TS QS**
Technology			Varistor	Varistor	Varistor
Electrical features					
Standard			IEC 61643-11/ EN 61643-11:2012/A11:2018	IEC 61643-11/ EN 61643-11:2012/A11:2018	IEC 61643-11/ EN 61643-11:2012/A11:2018
Type/test class			T2/II	T2/II	T2/II
Protected lines			4	4	4
Types of networks			TNS	TNS	TNS
Type of current			AC 47-63 Hz	AC 47-63 Hz	AC 47-63 Hz
Voltage regulation of the system network			± 20%	± 20%	± 20%
Nominal voltage Un (L-N/L-L)		[V]	230/400	230/400	230/400
Max. cont. operating AC voltage Uc		[V]	275	275	275
Nominal dc voltage Un dc L-PE/Un dc L-L		V dc	320/640	-	-
Max. dc. cont. operating voltage Ucdc L-PE/ Ucdc L-L		V dc	355/710	-	-
Maximum discharge current Imax (8/20)		[kA]	40	40	80
Nominal discharge current In (8/20)		[kA]	20	20	20
Voltage protection level Up at In (L-N/N-PE/L-PE)		[kA]	2.5/1.25/1.25	2.8/1.4/1.4	2.8/1.4/1.4
Voltage protection level Up at 3 kA		[kA]	0.8	0.5	0.8
TOV (Temporary over-voltage) withstand Ut	(L-N: 5 s /N-PE: 200 ms)	[V]	334/-	337	334/-
Response time		[ns]	≤ 25	≤ 25	≤ 25
Short-circuit withstand capability Isccr		[kA]	100	100	100
Backup protection	Fuse (gG)	[A]	≤ 125	≤160	≤ 160
	Circuit breaker (B or C curve)	[A]	≤ 125	≤125	≤ 125
Pluggable cartridge			Yes	Yes	Yes
Integrated thermal disconnector			Yes	Yes	Yes
State indicator			Yes	Yes	Yes
Safety reserve			No	Yes	Yes
Auxiliary contact			Yes (TS option)	Yes (TS option)	Yes (TS option)
Installation					
Wire range (L, N, PE)	Solid wire	[mm²]	2.5 ... 35	2.5 ... 35	2.5 ... 35
	Stranded wire	[mm²]	2.5 ... 25	2.5 ... 25	2.5 ... 25
Stripping length (L, N, PE)		[mm]	12.5	12.5	12.5
Tightening torque (L, N, PE)		[Nm]	2.5	2.5	2.5
Auxiliary contact (TS)					
Contact complement			1 NO - 1 NC	1 NO - 1 NC	1 NO - 1 NC
Minimum load			12 V DC - 10 mA	12 V DC - 10 mA	12 V DC - 10 mA
Maximum load			250 V AC - 1 A	250 V AC - 1 A	250 V AC - 1 A
Connection cross-section		[mm²]	1.5	1.5	1.5
Miscellaneous characteristics					
Stocking and operating temperature		[°C]	-40 to +80	-40 to +80	-40 to +80
Maximal Altitude		[m]	5000	5000	5000
Degree of protection			IP20	IP 20	IP20
Fire resistance according to UL 94			V0	V0	V0
Dimensions	height x width x depth	[mm]	88 x 71.2 x 65.3	88 x 71.2 x 76.7	88 x 71.2 x 76.7
		[inches]	3.46 x 2.8 x 2.57	3.46 x 2.8 x 3.02	3.46 x 2.8 x 3.02
with auxiliary contact (TS)	height x width x depth	[mm]	95.8 x 71.2 x 65.3	95.8 x 71.2 x 76.7	95.8 x 71.2 x 76.7
		[inches]	3.77 x 2.8 x 2.57	3.77 x 2.8 x 3.02	3.77 x 2.8 x 3.02
Replacement Cartridges					
Phase Product ID			OVR T2 40-275 C QS 2CTB803876R1000	OVR T2 40-275s C QS 2CTB8157084R2600	OVR T2 80-275s C QS 2CTB815708R2600
Neutral Product ID			-	-	-

Protection and safety

OVR Type 2 pluggable QuickSafe® surge protective devices
TNS 230 V networks



OVR T2 4L 40-275 P QS

Type 2 surge protective devices are designed to protect electric installations and sensitive equipment against indirect surges with ensuring a low protection level (Up). They are characterized by their capacity to safely discharge current with 8/20 µs wave form.

Type 2 pluggable - Uc 275 V

Poles	Max discharge current Imax 8/20	Nominal discharge current In	Voltage protection level Up	Nominal voltage Un	Max. cont. operating voltage Uc	Bbn 3660308	Order details		Weight 1 piece
	kA	kA	kV	V	V	EAN	Type code	Order code	kg
4	40	20	1.25	230/400	275	520548	OVR T2 4L 40-275 P QS	2CTB803873R5600	0.45
4	40	20	1.25	230/400	275	520555	OVR T2 4L 40-275 P TS QS	2CTB803873R5200	0.45
4	40	20	1.4	230/400	275	525345	OVR T2 4L 40-275s P QS	2CTB815704R2300	0.45
4	40	20	1.4	230/400	275	525284	OVR T2 4L 40-275s P TS QS	2CTB815704R1100	0.45
4	80	20	1.4	230/400	275	525529	OVR T2 4L 80-275s P QS	2CTB815708R2300	0.45
4	80	20	1.4	230/400	275	525468	OVR T2 4L 80-275s P TS QS	2CTB815708R1100	0.45

Protection and safety

OVR Type 2 pluggable QuickSafe® surge protective devices TNS 400 V networks

Technical features

Types		**OVR T2 4L 40-440 P QS**	**OVR T2 4L 80-440s P QS**
with auxiliary contact (TS)		**OVR T2 4L 40-440 P TS QS**	**OVR T2 4L 80-440s P TS QS**
Technology		Varistor	Varistor
Electrical features			
Standard		IEC 61643-11/EN 61643-11:2012/A11:2018	IEC 61643-11/EN 61643-11:2012/A11:2018
Type/test class		T2/II	T2/II
Protected lines		4	4
System network		TNS	TNS
Type of current		AC 47-63 Hz	AC 47-63 Hz
Voltage regultaion of the system network		± 10%	± 10%
Nominal system voltage Un (L-N/L-L)	V	400/690	400/690
Max. cont. operating AC voltage Uc	V	440	440
Nominal dc voltage Un dc L-PE/Un dc L-L		495/990	-
Max. dc cont. Operating voltage Ucdc L-PE/ Ucdc L-L		545/1090	-
Maximal discharge current Imax (8/20)	kA	40	80
Maximum impulse current Iimp (10/350)	kA	2	6.25
Nominal discharge current In (8/20)	kA	20	20
Follow current interrupting rating Ifi	kA	-	-
Voltage protection level Up at In (L-N/N-PE/L-PE)	kV	3.6/1.8/1.8	3.6/1.8/1.8
Voltage protection level Ures at 3 kA	kV	1.25	-
Voltage protection level Ures at 5 kA		1.35	-
Voltage protection level Ures at 10 kA		1.55	-
TOV (Temporary overvoltage) withstand Ut (L-N: 5s./N-PE: 200ms)	V	581/	581/
Response time	ns	≤25	≤25
Short-circuit withstand capability Isccr	kA	100	100
Backup protection maximum rating			
fuse (gG)	A	≤125	≤160
circuit breaker (B or C curve)	A	≤125	≤125
Pluggable cartridge		Yes	Yes
Integrated thermal disconnector		Yes	Yes
State indicator		Yes	Yes
Safety reserve		No	Yes
Auxiliary contact		Yes (TS option)	Yes (TS option)
Installation			
Wire range (L, N, PE) solid wire	mm^2	2.5 ... 35	2.5 ... 35
stranded wire	mm^2	2.5 ... 25	2.5 ... 25
Stripping length (L, N, PE)	mm	12.5	12.5
Tightening torque (L, N, PE)	Nm	2.5	2.5
Auxiliary contact (TS)		-	-
Contacts information		1 NO - 1 NC	1 NO - 1 NC
Min. load		12 V DC - 10 mA	12 V DC - 10 mA
Max. load		250 V AC - 1 A	250 V AC - 1 A
Connection cross-section	mm^2	1.5	1.5
Miscellanous characteristics			
Stocking and operating temperature	°C	-40 to +80	-40 to +80
Maximal Altitude	[m]	5000	5000
Degree of protection		IP 20	IP 20

Protection and safety

OVR Type 2 pluggable QuickSafe® surge protective devices TNS 400 V networks

Technical features

Types		OVR T2 4L 40-440 P QS	OVR T2 4L 80-440s P QS
with auxiliary contact (TS)		**OVR T2 4L 40-440 P TS QS**	**OVR T2 4L 80-440s P TS QS**
Fire resistance according to UL 94		V0	V0
Dimensions			
height x width x depth	mm	88 x 71.2 x 65.3	88 x 71.2 x 69.4
	inches	3.46 x 2.8 x 2.57	3.46 x 2.8 x 2.57
Dimensions with auxilary contact (TS)			
height x width x depth	mm	95.8 x 142.4 x 69	95 x 71.2 x 69.4
	inches	3.77 x 2.8 x 2.57	3.77 x 2.8 x 2.57
Replacement Cartdriges			
Phase Product ID		OVR T2 40-440 C QS	OVR T2 80-440s C QS
		2CTB803876R0400	2CTB815708R5500



OVR T2 4L 40-440 P TS QS

Type 2 surge protective devices are designed to protect electric installations and sensitive equipment against indirect surges with ensuring a low protection level (Up). They are characterized by their capacity to safely discharge current with 8/20 µs wave form.

OVR T2 Pluggable

Protected lines	Max discharge current Imax 8/20	Nominal current In 8/20	Voltage protection level	Nominal voltage	Max. cont. operating voltage	Bbn 3660308	Order details		Weight 1 piece
	kA		Up kV	Un V	Uc V	EAN	Type code	Order code	kg
4	40	20	1,8	440	440	519894	OVR T2 4L 40-440 P QS	2CTB803873R5100	0.45
4	40	20	1,8	440	440	519900	OVR T2 4L 40-440 P TS QS	2CTB803873R5300	0.45
4	80	20	1,8	440	440	525635	OVR T2 4L 80-440s P QS	2CTB815708R5200	0.6
4	80	20	1,8	440	440	525598	OVR T2 4L 80-440s P TS QS	2CTB815708R4000	0.6

Protection and safety

OVR Type 2 pluggable QuickSafe® surge protective devices TNS/TT 230 and 400 V 1Ph+N networks

Technical features

Types			OVR T2 1N 40-275 P QS	OVR T2 1N 40-275s P QS	OVR T2 1N 80-275s P QS	OVR T2 1N 40-350 P QS	
with auxiliary contact (TS)			OVR T2 1N 40-275 P TS QS	OVR T2 1N 40-275s P TS QS	OVR T2 1N 80-275s P TS QS	OVR T2 1N 40-350 P TS QS	OVR T2 1N 40-440 P TS QS
Technology			Varistor + GDT	Varistor + GDT	Varistor + GDT	Varistor + GDT	Varistor + GDT
Electrical features							
Standard			IEC 61643-11/ EN 61643-11:2012/ A11:2018	IEC 61643-11/ EN 61643-11:2012/ A11:2018	IEC 61643-11/ EN 61643-11:2012/ A11:2018	IEC 61643-11/EN 61643-11:2012/ A11:2018	IEC 61643-11/ EN 61643-11:2012/ A11:2018
Type/test class			T2/II	T2/II	T2/II	T2/II	T2/II
Protected lines			1+1	1+1	1+1	1+1	1+1
System network			TT - TNS	TT - TNS	TT - TNS	TT - TNS	TT-TNS
Type of current			AC 47-63 Hz	AC 47-63 Hz	AC 47-63 Hz	AC 47-63 Hz	AC 47-63 Hz
Voltage regulation of the system network			± 20%	± 20%	± 20%	± 50%	±10 %
Nominal system voltage Un		[V]	230	230	230	230	400
Max. cont. operating voltage Uc		[V]	275	275	275	350	440
Maximum discharge current Imax (8/20)		[kA]	40	40	80	40	40
Maximum impulse current Iimp (10/350)		[kA]	2	2	6.25	2	2
Nominal discharge current In (8/20)		[kA]	20	20	20	20	20
Total Current		[kA]	80	80	80	80	80
Voltage protection level Up at In (L-N/N-PE/L-PE)		[kV]	1.25/1.4/1.5	1.4/1.4/1.5	1.4/1.4/1.5	1.5/1.4/1.6	1,8/1,4/1,9
Voltage protection level Ures at 3 kA		[kV]	0.8/1.4/0.85	0.8/1.4/0.85	0.8/1.4/0.85	1.0/1.4/1.05	1,25/1,4/1,45
Voltage protection level Ures at 5 kA		[kV]	0.85/1.4/0.95	0.85/1.4/0.95	0.85/1.4/0.95	1.05/1.4/1.1	1,35/1,4/1,55
Voltage protection level Ures at 10 kA		[kV]	1/1.4/1.15	1/1.4/1.15	1/1.4/1.15	1.2/1.4/1.3	1,55/1,4/1,65
TOV (Temporary overvoltage) withstand Ut (L-N: 5s./N-PE: 200ms)		[V]	337/1200	337/1200	337/1200	455/1200	581/1200
Uoc		[kV]	-	-	-	-	-
Response time		[ns]	< 25	< 25	< 25	< 25	<25
Short-circuit withstand capability Isccr		[kA]	100	100	100	100	100
Backup protection maximum rating	fuse (gG)	[A]	≤ 125	≤ 160	≤ 160	≤ 125	≤ 125
	circuit breaker (B or C curve)	[A]	≤ 125	≤ 125	≤ 125	≤ 125	≤ 125
Pluggable cartridge			Yes	Yes	Yes	Yes	Yes
Integrated QuickSafe® technology			Yes	Yes	Yes	Yes	Yes
State indicator			Yes	Yes	Yes	Yes	Yes
Safety reserve			No	Yes	Yes	No	No
Auxiliary contact			Yes (TS option)	Yes (TS option)	Yes (TS option)	Yes (TS option)	Yes
Installation							
Wire range (L, N, PE)	solid wire	[mm²]	2.5 ... 35	2.5 ... 35	2.5 ... 35	2.5 ... 35	2.5 ... 35
	stranded wire	[mm²]	2.5 ... 25	2.5 ... 25	2.5 ... 25	2.5 ... 25	2.5 ... 25
Stripping length (L, N, PE)		[mm]	12.5	12.5	12.5	12.5	12.5
Tightening torque (L, N, PE)		[Nm]	2.8	2.8	2.8	2.8	2.8
Auxiliary contact (TS)							
Contacts information			1 NO - 1 NC	1 NO - 1 NC	1 NO - 1 NC	1 NO - 1 NC	1 NO - 1 NC
Min. load			12 DC - 10 mA	12 DC - 10 mA	12 DC - 10 mA	12 DC - 10 mA	12 DC - 10 mA
Max. load			250 V AC - 1A	250 V AC - 1A	250 V AC - 1A	250 V AC - 1A	250 V AC - 1A
Connection cross-section		[mm²]	1.5	1.5	1.5	1.5	1.5
Miscellanous characteristics							
Stocking and operating temperature		°C	-40 to +80	-40 to +80	-40 to +80	-40 to +80	-40 to +80
Maximal Altitude		[m]	5000	5000	5000	5000	5000
Degree of protection			IP 20	IP 20	IP 20	IP 20	IP 20

Protection and safety

OVR Type 2 pluggable QuickSafe® surge protective devices TNS/TT 230 and 400 V 1Ph+N networks

Technical features

Types		OVR T2 1N 40-275 P QS	OVR T2 1N 40-275s P QS	OVR T2 1N 80-275s P QS	OVR T2 1N 40-350 P QS	
with auxiliary contact (TS)		**OVR T2 1N 40-275 P TS QS**	**OVR T2 1N 40-275s P TS QS**	**OVR T2 1N 80-275s P TS QS**	**OVR T2 1N 40-350 P TS QS**	**OVR T2 1N 40-440 P TS QS**
Fire resistance according to UL 94		V0	V-0	V-0	V0	V0
Dimensions						
height x width x depth	mm	88 x 35.6 x 65.3	88 x 35.6 x 76.7	88 x 35.6 x 76.7	88 x 35.6 x 65.3	
	inches	3.46 x 1.4 x 2.57	3.46 x 1.4 x 3.02	3.46 x 1.4 x 3.02	3.46 x 1.4 x 2.57	
With Auxiliary Contact (TS)						
height x width x depth	mm	95.8 x 35.6 x 65.3	95.8 x 35.6 x 76.7	95.8 x 35.6 x 76.7	95.8 x 35.6 x 65.3	95.8 x 35.6 x 65.3
	inches	3.77 x 1.4 x 2.57	3.77 x 1.4 x 3.02	3.77 x 1.4 x 3.02	3.77 x 1.4 x 2.57	3.77 x 1.4 x 2.57
Replacement Cartridges						
Phase Product ID		OVR T2 40-275 C QS 2CTB803876R1000	OVR T2 40-275s C QS 2CTB815704R2600	OVR T2 80-275s C QS 2CTB815708R2600	OVR T2 40-350 C QS 2CTB803886R1000	OVR T2 40-440 C QS 2CTB803876R0400
Neutral Product ID		OVR T2-T3 N 80-275 C QS 2CTB803876R0000	OVR T2 N 80-275s C QS 2CTB815708R2800	OVR T2 N 80-275s C QS 2CTB815708R2800	OVR T2 N 80-350 C QS 2CTB803886R0000	OVR T2 N 80-440 C QS 2CTB803886R0100



OVR T2 1N 40-275 P QS

Type 2 surge protective devices are designed to protect electric installations and sensitive equipment against indirect surges with ensuring a low protection level (Up).
They are characterized by their capacity to safely discharge current with 8/20 µs wave form.

Type 2 pluggable

Poles	Impluse Curent limp 10/350	Max discharge current Imax 8/20	Nominal current In	Voltage protection level Up	Nominal voltage Un	Max. cont. operating voltage Uc	Bbn 3660308	Order details		Weight 1 piece
	kA	kA	kA	kV	V	V	EAN	Type code	Order code	kg
1+1	2	40	20	1.25	230	275	519696	OVR T2 1N 40-275 P QS	2CTB803972R1100	0.24
1+1	2	40	20	1.25	230	275	519702	OVR T2 1N 40-275 P TS QS	2CTB803972R0500	0.24
1+1	2	40	20	1.4	230	275	525239	OVR T2 1N 40-275s P TS QS	2CTB815704R0200	0.30
1+1	2	40	20	1.4	230	275	525307	OVR T2 1N 40-275s P QS	2CTB815704R1400	0.30
1+1	2	80	20	1.4	230	275	525413	OVR T2 1N 80-275s P TS QS	2CTB815708R0200	0.30
1+1	2	80	20	1.4	230	275	525482	OVR T2 1N 80-275s P QS	2CTB815708R1400	0.30
1+1	2	40	20	1.5	230	350	519719	OVR T2 1N 40-350 P QS	2CTB803982R1100	0.24
1+1	2	40	20	1.5	230	350	519726	OVR T2 1N 40-350 P TS QS	2CTB803982R0500	0.24
1+1	2	40	20	1.9	400	440	524577	OVR T2 1N 40-440 P TS QS	2CTB803972R1400	0.24

Protection and safety

OVR Type 2 pluggable QuickSafe® surge protective devices TNS/TT 230 and 400 V 3Ph+N networks



OVR T2 3N 40-275 P QS

Technical features

Types			**OVR T2 3N 40-275 P QS**	**OVR T2 3N 40-275s P QS**
with auxiliary contact (TS)			**OVR T2 3N 40-275 P TS QS**	**OVR T2 3N 40-275s P TS QS**
Technology			Varistor + GDT	Varistor + GDT
Electrical features				
Standard			IEC 61643-11/ EN 61643-11:2012/A11:2018	IEC 61643-11/ EN 61643-11:2012/A11:2018
Type/test class			T2/II	T2/II
Protected lines			3+1	3+1
System network			TT - TNS	TT - TNS
Type of current			AC 47-63 Hz	AC 47-63 Hz
Voltage regulation of the system network			± 20%	± 20%
Nominal system voltage Un (L-N/L-L)		[V]	230/400	230/400
Max. cont. operating voltage Uc (L-N/L-L)		[V]	275/440	275/440
Maximum discharge current Imax (8/20)		[kA]	40	40
Maximum impulse current Iimp (10/350)		[kA]	2	2
Nominal discharge current In (8/20)		[kA]	20	20
Total Current		[kA]	80	80
Voltage protection level Up at In (L-N/N-PE/L-PE)		[kV]	1.25/1.4/1.5	1.4/1.4/1.5
Voltage protection level Ures at 3kA (L-N/N-PE /L-PE)		[kV]	0.8/1.4/0.85	0.8/1.4/0.85
Voltage protection level Ures at 5kA (L-N/N-PE /L-PE)		[kV]	0.85/1.4/0.95	0.85/1.4/0.95
Voltage protection level Ures at 10kA (L-N/N-PE /L-PE)		[kV]	1/1.4/1.15	1/1.4/1.15
TOV (Temporary overvoltage) withstand Ut (L-N: 5s./N-PE: 200ms)		[V]	337/1200	337/1200
Response time		[ns]	< 25	< 25
Short-circuit withstand capability Isccr		[kA]	100	100
Backup protection maximum rating	fuse (gG)	[A]	≤ 125	≤ 160
	circuit breaker (B or C curve)	[A]	≤ 125	≤ 125
Pluggable cartridge			Yes	Yes
Integrated QuickSafe® technology			Yes	Yes
State indicator			Yes	Yes
Safety reserve			No	Yes
Auxiliary contact			Yes (TS option)	Yes (TS option)
Installation				
Wire range (L, N, PE)	solid wire	[mm²]	2.5 ... 35	2.5 ... 35
	stranded wire	[mm²]	2.5 ... 25	2.5 ... 25
Stripping length (L, N, PE)		[mm]	12.5	12.5
Tightening torque (L, N, PE)		[Nm]	2.8	2.8
Auxiliary contact (TS)				
Contacts information			1 NO - 1 NC	1 NO - 1 NC
Min. load			12 DC - 10 mA	12 DC - 10 mA
Max. load			250 V AC - 1A	250 V AC - 1A
Connection cross-section		[mm²]	1.5	1.5
Miscellanous characteristics				
Stocking and operating temperature		[°C]	-40 to +80	-40 to +80
Maximal Altitude		[m]	5000	5000
Degree of protection			IP 20	IP 20
Fire resistance according to UL 94			V0	V-0
Dimensions				
height x width x depth		[mm]	88 x 71.2 x 65.3	88 x 71.2 x 76.7
		[inches]	3.46 x 2.8 x 2.57	3.46 x 2.8 x 3.02
With Auxiliary Contact (TS)				
height x width x depth		[mm]	95.8 x 71.2 x 65.3	95.8 x 71.2 x 76.7
		[inches]	3.77 x 2.8 x 2.57	3.77 x 2.8 x 3.02
Replacement Cartridges				
Phase Product ID			OVR T2 40-275 C QS 2CTB803876R1000	OVR T2 40-275s C QS 2CTB815704R2600
Neutral Product ID			OVR T2-T3 N 80-275 C QS 2CTB803876R0000	OVR T2 N 80-275s C QS 2CTB815708R2800

Protection and safety

OVR Type 2 pluggable QuickSafe® surge protective devices TNS/TT 230 and 400 V 3Ph+N networks

OVR T2 3N 80-275s P QS	OVR T2 3N 40-350 P QS	OVR T2 3N 40-440 P QS		OVR T2 3N 80-440s P QS
OVR T2 3N 80-275s P TS QS	**OVR T2 3N 40-350 P TS QS**	**OVR T2 3N 40-440 P TS QS**	**OVR T2 3N 40-440s P TS QS**	**OVR T2 3N 80-440s P TS QS**
Varistor + GDT	Varistor + GDT	Varistor + GDT	Varistor + GDT	Varistor + GDT
IEC 61643-11/ EN 61643-11:2012/A11:2018	IEC 61643-11/ EN 61643-11:2012/A11:2018	IEC 61643-11/ EN 61643-11:2012/A11:2018	IEC 61643-11/ EN 61643-11:2012/A11:2018	IEC 61643-11/ EN 61643-11:2012/A11:2018
T2/II	T2/II	T2/II	T2/II	T2/II
3+1	3+1	3+1	3+1	3+1
TT - TNS	TT - TNS	TT - TNS	TT - TNS	TT - TNS
AC 47-63 Hz	AC 47-63 Hz	AC 47-63 Hz	AC 47-63 Hz	AC 47-63 Hz
± 20%	± 50%	± 10%	± 10%	± 10%
230/440	230/400	400/690	400/690	400/690
275/440	350/600	440/760	440/760	440/760
80	40	40	40	80
6.25	2	2	2	6.25
20	20	20	20	20
80	80	80	80	80
1.4/1.4/1.5	1.5/1.4/1.7	1.8/1.4/2.1	1.8/2/2.1	1.8/2/2.1
0.8/1.4/0.85	1.0/1.4/1.05	1.25/1.4/1.45	1.25/1.4/1.45	1.25/1.4/1.45
0.85/1.4/0.95	1.05/1.4/1.1	1.35/1.4/1.45	1.35/1.4/1.45	1.35/1.4/1.45
1/1.4/1.15	1.2/1.4/1.3	1.55/1.4/1.65	1.55/1.4/1.65	1.55/1.4/1.65
337/1200	455/1200	581/1200	581/1200	581/1200
< 25	< 25	< 25	< 26	< 25
100	100	100	100	100
≤ 160	≤ 125	≤ 125	≤ 160	≤ 160
≤ 125	≤ 125	≤ 125	≤ 125	≤ 125
Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes
Yes	No	No	Yes	Yes
Yes (TS option)	Yes (TS option)	Yes (TS option)	Yes	Yes (TS option)
2.5 ... 35	2.5 ... 35	2.5 ... 35	2.5 ... 35	2.5 ... 35
2.5 ... 25	2.5 ... 25	2.5 ... 25	2.5 ... 25	2.5 ... 25
12.5	12.5	12.5	12.5	12.5
2.8	2.8	2.8	2.8	2.8
1 NO - 1 NC	1 NO - 1 NC	1 NO - 1 NC	1 NO - 1 NC	1 NO - 1 NC
12 DC - 10 mA	12 DC - 10 mA	12 DC - 10 mA	12 DC - 10 mA	12 DC - 10 mA
250 V AC - 1A	250 V AC - 1A	250 V AC - 1A	250 V AC - 1A	250 V AC - 1A
1.5	1.5	1.5	1.5	1.5
-40 to +80	-40 to +80	-40 to +80	-40 to +80	-40 to +80
5000	5000	5000	5000	5000
IP 20	IP 20	IP 20	IP 20	IP 20
V-0	V0	V0	V-0	V-0
88 x 71.2 x 76.7	88 x 71.2 x 65.3	88 x 71.2 x 65.3		88 x 71.2 x 76.7
3.46 x 2.8 x 3.02	3.46 x 2.8 x 2.57	3.46 x 2.8 x 2.57		3.46 x 2.8 x 3.02
95.8 x 71.2 x 76.7	95.8 x 71.2 x 65.3	95.8 x 71.2 x 65.3	95.8 x 71.2 x 76.7	95.8 x 71.2 x 76.7
3.77 x 2.8 x 3.02	3.77 x 2.8 x 2.57	3.77 x 2.8 x 2.57	3.77 x 2.8 x 3.02	3.77 x 2.8 x 3.02
OVR T2 80-275s C QS 2CTB815708R2600	OVR T2 40-350 C QS 2CTB803886R1000	OVR T2 40-440 C QS 2CTB803876R0400	OVR T2 40-440s C QS 2CTB815704R5500	OVR T2 80-440s C QS 2CTB815708R5500
OVR T2 N 80-275s C QS 2CTB815708R2800	OVR T2 N 80-350 C QS 2CTB803886R0000	OVR T2-T3 N 80-440 C QS 2CTB803886R0100	OVR T2 N 80-440s C QS 2CTB815708R5700	OVR T2 N 80-440s C QS 2CTB815708R5700

Protection and safety

OVR Type 2 pluggable QuickSafe® surge protective devices TNS/TT 230 and 400 V 3Ph+N networks



OVR T2 3N 40-275 P QS

Type 2 surge protective devices are designed to protect electric installations and sensitive equipment against indirect surges with ensuring a low protection level (Up). They are characterized by their capacity to safely discharge current with 8/20 µs wave form.

Type 2 pluggable

Protected lines	Max discharge current Imax 8/20	Nominal discharge current In	Voltage protection level Up	Nominal voltage Un	Max. cont. operating voltage Uc	Bbn 3660308	Order details		Weight 1 piece
	kA	kA	kV	V	V	EAN	Type code	Order code	kg
3+1	40	20	1.5	230/400	275	519.931	OVR T2 3N 40-275 P QS	2CTB803973R1100	0.48
3+1	40	20	1.5	230/400	275	519.948	OVR T2 3N 40-275 P TS QS	2CTB803973R0500	0.48
3+1	40	20	1.4	230/400	275	52526 0	OVR T2 3N 40-275s P TS QS	2CTB815704R0800	0.60
3+1	40	20	1.4	230/400	275	52532 1	OVR T2 3N 40-275s P QS	2CTB815704R2000	0.60
3+1	80	20	1.4	230/400	275	52544 4	OVR T2 3N 80-275s P TS QS	2CTB815708R0800	0.60
3+1	80	20	1.4	230/400	275	52550 5	OVR T2 3N 80-275s P QS	2CTB815708R2000	0.60
3+1	40	20	1.5	230/400	350	519.962	OVR T2 3N 40-350 P QS	2CTB803983R1100	0.48
3+1	40	20	1.5	230/400	350	519.979	OVR T2 3N 40-350 P TS QS	2CTB803983R0500	0.48
3+1	40	20	1.8	400/690	440	519.993	OVR T2 3N 40-440 P QS	2CTB803973R1400	0.48
3+1	40	20	1.8	400/690	440	520.005	OVR T2 3N 40-440 P TS QS	2CTB803973R1500	0.48
3+1	40	20	1.8	400/690	440	52537 6	OVR T2 3N 40-440s P TS QS	2CTB815704R3700	1.05
3+1	80	20	1.8	400/690	440	52558 1	OVR T2 3N 80-440s P TS QS	2CTB815708R3700	1.05
3+1	80	20	1.8	400/690	440	52562 8	OVR T2 3N 80-440s P QS	2CTB815708R4900	1.05

Notes

Protection and safety

OVR Type T2-T3 pluggable QuickSafe® surge protective devices
Single pole - 230 V and 440 V networks

Technical features

Types			OVR T2-T3 20-275 P QS	OVR T2-T3 20-440 P QS	OVR T2-T3 N 80-275 P QS	OVR T2-T3 N 80-440 P QS
with auxiliary contact (TS)			**OVR T2-T3 20-275 P TS QS**	**OVR T2-T3 20-440 P TS QS**	-	-
Technology			Varistor	Varistor	GDT	GDT
Electrical features						
Standard			IEC 61643-11/ EN 61643-11:2012/ A11:2018	IEC 61643-11/ EN 61643-11:2012/ A11:2018	IEC 61643-11/ EN 61643-11:2012/ A11:2018	IEC 61643-11/ EN 61643-11:2012/ A11:2018
Type/test class			T2-T3/II-III	T2-T3/II-III	T2-T3/II-III	T2-T3/II-III
Protected lines			1	1	1	1
System network			TNC - TT(L-N) - TNS	TNC - TT(L-N) - TNS	TT (N-PE)-TNS(N-PE)	TT (N-PE)-TNS(N-PE)
Type of current			AC 47-63 Hz	AC 47-63 Hz	AC 47-63 Hz	AC 47-63 Hz
Voltage regulation of the system network			± 20%	± 10%	± 20%	± 10%
Nominal system voltage Un		[V]	230	400	230	400
Max. cont. operating voltage Uc		[V]	275	440	275	440
Nominal dc voltage Un dc L-PE		[V dc]	320	320	-	-
Max. dc. cont. operating voltage Ucdc L-PE		[V dc]	355	355	-	-
Maximum discharge current Imax (8/20)		[kA]	20	20	80	80
Nominal discharge current In (8/20)		[kA]	5	5	2	2
Voltage protection level Up at In (L-N)		[kV]	0.9/-/-	1.4/-/-	30	30
Voltage protection level Ures at 3kA (L-N)		[kV]	0.8	1.25	-/-/1.4	-/-/1.4
Voltage protection level Ures at 5kA (L-N)		[kV]	0.85	1.35	-	-
Voltage protection level Ures at 10kA (L-N)		[kV]	1	1.55	-	-
TOV (Temporary overvoltage) withstand Ut (L-N: 5s./N-PE: 200ms)		[V]	337/-	581/-	-	-
Uoc		[kV]	6	6	-	-
Response time		[ns]	≤ 25	≤ 25	-/1200	-/1200
Short-circuit withstand capability Isccr		[kA]	100	100	<25	<25
Backup protection maximum rating	fuse (gG)	[A]	≤ 125	≤ 125	<125	<125
	circuit breaker (B or C curve)	[A]	≤ 125	≤ 125	<125	<125
Pluggable cartridge			Yes	Yes	Yes	Yes
Integrated QuickSafe® technology			Yes	Yes	-	-
State indicator			Yes	Yes	No	No
Safety reserve			No	No	No	No
Auxiliary contact			Yes (TS option)	Yes (TS option)	No	No
Installation						
Wire range (L, N, PE)	solid wire	[mm²]	2.5 ... 35	2.5 ... 35	2.5 ... 35	2.5 ... 35
	stranded wire	[mm²]	2.5 ... 25	2.5 ... 25	2.5 ... 25	2.5 ... 25
Stripping length (L, N, PE)		[mm]	12.5	12.5	12.5	12.5
Tightening torque (L, N, PE)		[Nm]	2.8	2.8	2.8	2.8
Auxiliary contact (TS)						
Contacts information			1 NO - 1 NC	1 NO - 1 NC	-	-
Min. load			12 DC - 10 mA	12 DC - 10 mA	-	-
Max. load			250 V AC - 1A	250 V AC - 1A	-	-
Connection cross-section		[mm²]	1.5	1.5	-	-
Miscellanous characteristics						
Stocking and operating temperature		[°C]	-40 to +80	-40 to +80	-40 to + 80	-40 to + 80
Maximal Altitude		[m]	5000	5000	5000	5000
Degree of protection			IP 20	IP 20	IP 20 - Indoor	IP 20 - Indoor
Fire resistance according to UL 94			V0	V0	V-0	V-0
Dimensions of packing						

Protection and safety

OVR Type T2-T3 pluggable QuickSafe® surge protective devices
Single pole - 230 V and 440 V networks

Technical features

Types		OVR T2-T3 20-275 P QS	OVR T2-T3 20-440 P QS	OVR T2-T3 N 80-275 P QS	OVR T2-T3 N 80-440 P QS
with auxiliary contact (TS)		**OVR T2-T3 20-275 P TS QS**	**OVR T2-T3 20-440 P TS QS**	-	-
height x width x depth	[mm]	88 x 17.8 x 65.3	88 x 17.8 x 65.3	85 x 17.8 x 64.8	85 x 17.8 x 64.8
	[inches]	3.46 x 0.7 x 2.57	3.46 x 0.7 x 2.57	3.35 x 0.70 x 2.55	3.35 x 0.70 x 2.55
With Auxiliary Contact (TS)					
height x width x depth	[mm]	95.8 x 17.8 x 65.3	95.8 x 17.8 x 65.3	-	-
	[inches]	3.77 x 0.7 x 2.57	3.77 x 0.7 x 2.57	-	-
Replacement Cartridges					
Phase Product ID		OVR T2-T3 20-275 C QS 2CTB803876R1200	OVR T2-T3 20-440 C QS 2CTB803876R0600	OVR T2-T3 N 80-275 C QS 2CTB803876R0000	OVR T2-T3 N 80-275 C QS 2CTB803876R0000
Neutral Product ID		-	-	-	-



OVR T2 T3 20- 275 P QS

Type 2 and 3 surge protective devices shall be installed as close as possible to the sensitive equipment to protect. As Type 2 they have been characterize by their capacity to safely discharge current with a 8/20 µs wave form and they guarantee the coordination with Type 1 SPDs or other Type 2 respecting coordination distances. As Type 3 they are characterized by their capacity to safely discharge current with 1.2/50 µs wave form, with a very low level of Voltage Protection level.

Poles	Max discharge current Imax 8/20	Nominal discharge current In	Voltage protection level Up	Nominal voltage Un	Max. cont. operating voltage Uc	Bbn 3660308	Order details		Weight 1 piece
	kA	kA	kV	V	V	EAN	Type code	Order code	kg
1	20	5	0.9	230	275	519.566	OVR T2-T3 20-275 P QS	2CTB803871R2400	0.12
1	20	5	0.9	230	275	519.573	OVR T2-T3 20-275 P TS QS	2CTB803871R2500	0.12
1	20	5	1.4	400	440	519.603	OVR T2-T3 20-440 P QS	2CTB803871R1100	0.12
1	20	5	1.4	400	440	519.610	OVR T2-T3 20-440 P TS QS	2CTB803871R1300	0.12
1	80	30	1.4	230	275	519641	OVR T2-T3 N 80-275 P QS	2CTB803973R1900	0.12
1	80	30	1.4	400	440	519641	OVR T2-T3 N 80-440 P QS	2CTB803973R2000	0.12

Protection and safety

OVR Type T2-T3 pluggable QuickSafe® surge protective devices TNC - 230 V 3Ph + N networks

Technical features

Types			**OVR T2-T3 3L 20-275 P QS**
with auxiliary contact (TS)			**OVR T2-T3 3L 20-275 P TS QS**
Technology			Varistor
Electrical features			
Standard			IEC 61643-11/EN 61643-11:2012/A11:2018
Type/test class			T2-T3/II-III
Protected lines			3
System network			TNC
Type of current			AC 47-63 Hz
Voltage regulation of the system network			± 20%
Nominal system voltage Un (L-PE/L-L)		[V]	230/400
Max. cont. operating voltage Uc (L-PE/L-L)		[V]	275/440
Nominal dc voltage Un dc L-PE		[V dc]	320
Max. dc. cont. operating voltage Ucdc L-PE		[V dc]	355
Maximum discharge current Imax (8/20)		[kA]	20
Nominal discharge current In (8/20)		[kA]	5
Total Current		[kA]	60
Voltage protection level Up at In (L-N/N-PE /L-PE)		[kV]	0,85/-/-
Voltage protection level Ures at 3kA		[kV]	0.8
Voltage protection level Ures at 5kA		[kV]	0.85
Voltage protection level Ures at 10kA		[kV]	1.0
TOV (Temporary overvoltage) withstand Ut (L-N: 5s./N-PE: 200ms)		[V]	337/-
Uoc		[kV]	6
Response time		[ns]	≤ 25
Short-circuit withstand capability Isccr		[kA]	100
Backup protection maximum rating	fuse (gG)	[A]	≤ 125
	circuit breaker (B or C curve)	[A]	≤ 125
Pluggable cartridge			Yes
Integrated QuickSafe® technology			Yes
State indicator			Yes
Safety reserve			No
Auxiliary contact			Yes (TS option)
Installation			
Wire range (L, N, PE)	solid wire	[mm²]	2.5 ... 35
	stranded wire	[mm²]	2.5 ... 25
Stripping length (L, N, PE)		[mm]	12.5
Tightening torque (L, N, PE)		[Nm]	2.8
Auxiliary contact (TS)			
Contacts information			1 NO - 1 NC
Min. load			12 DC - 10 mA
Max. load			250 V AC - 1A
Connection cross-section		[mm²]	1.5
Miscellanous characteristics			
Stocking and operating temperature		[°C]	-40 to +80
Maximal Altitude		[m]	5000
Degree of protection			IP 20
Fire resistance according to UL 94			V0
Dimensions			
height x width x depth		mm	88 x 53.4 x 65.3
		inches	3.46 x 2.1 x 2.57

Protection and safety

OVR Type T2-T3 pluggable QuickSafe® surge protective devices
TNC - 230 V 3Ph + N networks

Technical features

Types		**OVR T2-T3 3L 20-275 P QS**
with auxiliary contact (TS)		**OVR T2-T3 3L 20-275 P TS QS**
With Auxiliary Contact (TS)		
height x width x depth	mm	95.8 x 53.4 x 65.3
	inches	3.77 x 2.1 x 2.57
Replacement Cartridges		
Phase Product ID		OVR T2-T3 20-275 C QS 2CTB803876R1200
Neutral Product ID		-



OVR T2 T3 3L 20-275 P TS QS

Type 2 and 3 surge protective devices shall be installed as close as possible to the sensitive equipment to protect. As Type 2 they have been characterize by their capacity to safely discharge current with a 8/20 µs wave form and they guarantee the coordination with Type 1 SPDs or other Type 2 respecting coordination distances. As Type 3 they are characterized by their capacity to safely discharge current with 1.2/50 µs wave form, with a very low level of Voltage Protection level.

Poles	Max discharge current Imax 8/20	Nominal discharge current In	Voltage protection level Up	Nominal voltage Un	Max. cont. operating voltage Uc	Bbn 3660308	Order details		Weight 1 piece
	kA	kA	kV	V	V	EAN	Type code	Order code	kg
3	20	5	0.85	230/400	275	519818	OVR T2-T3 3L 20-275 P QS	2CTB803873R3400	0.36
3	20	5	0.85	230	275	520661	OVR T2-T3 3L 20-275 P TS QS	2CTB803873R3500	0.36

Protection and safety

OVR Type T2-T3 QuickSafe® surge protective devices TNS/TT - 230 V 1Ph+N networks

Technical features

Types			**OVR T2-T3 1N 20-275 P QS**
with auxiliary contact (TS)			**OVR T2-T3 1N 20-275 P TS QS**
Technology			Varistor + GDT
Electrical features			
Standard			IEC 61643-11/EN 61643-11:2012/A11:2018
Type/test class			T2-T3/II-III
Protected lines			1+1
System network			TT - TNS
Type of current			AC 47-63 Hz
Voltage regulation of the system network			± 20%
Nominal system voltage Un		[V]	230
Max. cont. operating voltage Uc		[V]	275
Maximum discharge current Imax (8/20)		[kA]	20
Nominal discharge current In (8/20)		[kA]	5
Total Current		[kA]	40
Voltage protection level Up at In (L-N/N-PE/L-PE)		[kV]	0.9/1.4/1.4
Voltage protection level Ures at 3kA (L-N/N-PE /L-PE)		[kV]	0.8/1.4/0.85
Voltage protection level Ures at 5kA(L-N/N-PE /L-PE)		[kV]	0.85/1.4/0.95
Voltage protection level Ures at 10kA (L-N/N-PE /L-PE)		[kV]	1/1.4/1.15
TOV (Temporary overvoltage) withstand Ut (L-N: 5s./N-PE: 200ms)		[V]	337/1200
Uoc		[kV]	6
Response time		[ns]	≤ 25
Residual current IPE		[µA]	≤ 10
Short-circuit withstand capability Isccr		[kA]	100
Backup protection maximum rating	fuse (gG)	[A]	≤ 125
	circuit breaker (B or C curve)	[A]	≤ 125
Pluggable cartridge			Yes
Integrated QuickSafe® technology			Yes
State indicator			Yes
Safety reserve			No
Auxiliary contact			Yes (TS option)
Installation			
Wire range (L, N, PE)	solid wire	[mm²]	2.5 ... 35
	stranded wire	[mm²]	2.5 ... 25
Stripping length (L, N, PE)		[mm]	12.5
Tightening torque (L, N, PE)		[Nm]	2.8
Auxiliary contact (TS)			
Contacts information			1 NO - 1 NC
Min. load			12 DC - 10 mA
Max. load			250 V AC - 1A
Connection cross-section		[mm²]	1.5
Miscellanous characteristics			
Stocking and operating temperature		[°C]	-40 to +80
Maximal Altitude		[m]	5000
Degree of protection			IP 20
Fire resistance according to UL 94			V0

Protection and safety

OVR Type T2-T3 QuickSafe® surge protective devices
TNS/TT - 230 V 1Ph+N networks

Technical features

Types		**OVR T2-T3 1N 20-275 P QS**
with auxiliary contact (TS)		**OVR T2-T3 1N 20-275 P TS QS**
Dimensions		
height x width x depth	[mm]	88 x 35.6 x 65.3
	[inches]	3.46 x 1.4 x 2.57
With Auxiliary Contact (TS)		
height x width x depth	mm	95.8 x 35.6 x 65.3
	inches	3.77 x 1.4 x 2.57
Replacement Cartridges		
Phase Product ID		OVR T2-T3 20-275 C QS 2CTB803876R1200
Neutral Product ID		OVR T2-T3 N 80-275 C QS 2CTB803876R0000



OVR T2 T3 1N 20-275 P QS

Type 2 and 3 surge protective devices shall be installed as close as possible to the sensitive equipment to protect. As Type 2 they have been characterize by their capacity to safely discharge current with a 8/20 µs wave form and they guarantee the coordination with Type 1 SPDs or other Type 2 respecting coordination distances. As Type 3 they are characterized by their capacity to safely discharge current with 1.2/50 µs wave form, with a very low level of Voltage Protection level.

Poles	Max discharge current Imax 8/20	Nominal discharge current In	Voltage protection level Up	Nominal voltage Un	Max. cont. operating voltage Uc	Bbn 3660308	Order details		Weight 1 piece
	kA	kA	kV	V	V	EAN	Type code	Order code	kg
1+1	20	5	1.4	230	275	519689	OVR T2-T3 1N 20-275 P QS	2CTB803972R1200	0.24
1+1	20	5	1.4	230	275	520654	OVR T2-T3 1N 20-275 P TS QS	2CTB803972R1300	0.24

Protection and safety

OVR Type T2-T3 QuickSafe® surge protective devices
TT - 230 V and 400 V 3Ph+N networks

Technical features

Types			OVR T2-T3 3N 20-275 P QS	OVR T2-T3 3N 20-440 P QS
with auxiliary contact (TS)			**OVR T2-T3 3N 20-275 P TS QS**	
Technology			Varistor + GDT	Varistor + GDT
Electrical features				
Standard			IEC 61643-11/EN 61643-11:2012/ A11:2018	IEC 61643-11 /EN 61643-11:2012/ A11:2018
Type/test class			T2-T3/II-III	T2-T3 /II-III
Protected lines			3+1	3+1
System network			TT - TNS	TT - TNS
Type of current			AC 47-63 Hz	AC 47-63 Hz
Voltage regulation of the system network			± 20%	± 10%
Nominal system voltage Un (L-N/L-L)		[V]	230/400	400/690
Max. cont. operating voltage Uc (L-N/L-L)		[V]	275/440	440/750
Maximum discharge current Imax (8/20)		[kA]	20	20
Nominal discharge current In (8/20)		[kA]	5	5
Total Current		[kA]	80	80
Voltage protection level Up at In (L-N/N-PE/L-PE)		[kV]	0.9/1.4/1.4	1.4/1.4/1.4
Voltage protection level Ures at 3kA (L-N/N-PE /L-PE)		[kV]	0.8/1.4/0.85	1.25/1.4/1.4
Voltage protection level Ures at 5kA (L-N/N-PE /L-PE)		[kV]	0.85/1.4/0.95	1.35/1.4/1.45
Voltage protection level Ures at 10kA (L-N/N-PE /L-PE)		[kV]	1/1.4/1.15	1.35/1.4/1.65
TOV (Temporary overvoltage) withstand Ut (L-N: 5s./ N-PE: 200ms)		[V]	337/1200	581/1200
Uoc		[kV]	6	6
Response time		[ns]	≤ 25	≤ 25
Residual current IPE		[µA]	≤ 10	≤ 10
Short-circuit withstand capability Isccr		[kA]	100	100
Backup protection maximum rating	fuse (gG)	[A]	≤ 125	≤ 125
	circuit breaker (B or C curve)	[A]	≤ 125	≤ 125
Pluggable cartridge			Yes	Yes
Integrated QuickSafe® technology			Yes	Yes
State indicator			Yes	Yes
Safety reserve			No	No
Auxiliary contact			Yes (TS option)	Yes (TS option)
Installation				
Wire range (L, N, PE)	solid wire	[mm²]	2.5 ... 35	2.5 ... 35
	stranded wire	[mm²]	2.5 ... 25	2.5 ... 25
Stripping length (L, N, PE)		[mm]	12.5	12,5
Tightening torque (L, N, PE)		[Nm]	2.8	2,8
Auxiliary contact (TS)				
Contacts information			1 NO- 1 NC	1 NO- 1 NC
Min. load			12 DC - 10 mA	12 DC - 10 mA
Max. load			250 V AC - 1A	250 V AC - 1A
Connection cross-section		[mm²]	1.5	1.5
Miscellanous characteristics				
Stocking and operating temperature		[°C]	-40 to +80	-40 to +80
Maximal Altitude		[m]	5000	5000
Degree of protection			IP 20	IP 20

Protection and safety

OVR Type T2-T3 QuickSafe® surge protective devices
TT - 230 V and 400 V 3Ph+N networks

Technical features

Types		OVR T2-T3 3N 20-275 P QS	OVR T2-T3 3N 20-440 P QS
with auxiliary contact (TS)		**OVR T2-T3 3N 20-275 P TS QS**	
Fire resistance according to UL 94		V0	V0
Dimensions			
height x width x depth	mm	88 x 71.2 x 65.3	88 x 71.2 x 65.3
	inches	3.46 x 2.8 x 2.57	3.46 x 2.8 x 2.57
With Auxiliary Contact (TS)			
height x width x depth	mm	95.8 x 71.2 x 65.3	96 x 71.2 x 64.8
	inches	3.77 x 2.8 x 2.57	3.35 x 2.81 x 2.55
Replacement Cartridges			
Phase Product ID		OVR T2-T3 20-275 C QS 2CTB803876R1200	OVR T2-T3 20-440 C QS 2CTB803876R0600
Neutral Product ID		OVR T2-T3 N 80-275 C QS 2CTB803876R0000	OVR T2-T3 N 80-440 C QS 2CTB803886R0100



OVR T2 T3 3N 20-275 P TS QS

Type 2 and 3 surge protective devices shall be installed as close as possible to the sensitive equipment to protect. As Type 2 they have been characterize by their capacity to safely discharge current with a 8/20 µs wave form and they guarantee the coordination with Type 1 SPDs or other Type 2 respecting coordination distances. As Type 3 they are characterized by their capacity to safely discharge current with 1.2/50 µs wave form, with a very low level of Voltage Protection level.

Poles	Max discharge current Imax 8/20	Nominal discharge current In	Voltage protection level Up	Nominal voltage Un	Max. cont. operating voltage Uc	Bbn 3660308	Order details		Weight 1 piece
	kA	kA	kV	V	V	EAN	Type code	Order code	kg
3+1	20	5	1.4	230/400	275	519924	OVR T2-T3 3N 20-275 P QS	2CTB803973R1200	0.48
3+1	20	5	1.4	230/400	275	520692	OVR T2-T3 3N 20-275 P TS QS	2CTB803973R1600	0.48
3+1	20	5	1.5	400/690	440	519986	OVR T2-T3 3N 20-440 P QS	2CTB803973R1300	0.48

Protection and safety

OVR PV surge protective devices Photovoltaic networks

Technical features

Types			OVR PV T2 40-1000 P	OVR PV T2 40-1500 P
with auxiliary contact (TS)			**OVR PV T2 40-1000 P TS**	**OVR PV T2 40-1500 P TS**
Technology			Varistor	Varistor
Electrical features				
Standard			IEC 61643-31 UL 1449 5th Ed	IEC 61643-31 UL 1449 5th Ed
Type/test class			T2/II (EN) & Type 1 CA (UL)	T2/II (EN) & Type 1 CA (UL)
Protected lines			2	2
Types of networks			Photovoltaic	Photovoltaic
Type of current			DC	DC
Nominal voltage Un (L-N/L-L)		[V]	1000	1500
Max. cont. operating voltage Ucpv		[V]	1000	1500
Max.cont.operating voltage according Ⓤℓ (MCOV)		[V]	1000	1500
Maximum discharge current Imax (8/20)		[kA]	40	40
Nominal discharge current In (8/20)		[kA]	20	15
Voltage protection level Up at In (L-L/L-PE)		[kV]	4	5
Voltage protection rating according Ⓤℓ (VPR (L+/G, L-/G, L+/L-))		[kV]	3	4
Response time		[ns]	≤ 25	≤ 25
Residual current IPE		[µA]	≤1000	≤1000
Short-circuit DC current Iscpv		[A]	10,000	10,000
Short circuit withstand according Ⓤℓ (S_{CCR})		[kA]	10	10
Disconnector	Fuse		no need up to 10 kA	no need up to 10 kA
	Circuit breaker		no need up to 10 kA	no need up to 10 kA
Pluggable cartridge			Yes	Yes
Integrated specific thermal disconnector			Yes	Yes
State indicator			Yes	Yes
Safety reserve			No	No
Auxiliary contact			Yes (TS option)	Yes (TS option)
Installation				
Wire range (L, N, PE)	Solid wire	[mm²]	2.5…35	2.5…35
	Stranded wire	[mm²]	2.5…25	2.5…25
Stripping length (L, N, PE)			12	12
Tightening torque (L, N, PE)		NM	4	4
Auxiliary contact (TS)				
Contact complement			1 NO - 1 NC	1 NO - 1 NC
Minimum load			12 V DC - 10 mA	12 DC - 10 mA
Maximum load			250 V AC - 1 A	250 V AC - 1A
Connection cross-section			1.5	1.5
Miscellaneous characteristics				
Stocking and operating temperature		[°C]	-40 to +80	-40 to +80
Maximal Altitude		[m]	2000	2000
Humidity Rate HR			95% (non condensing)	95% (non condensing)
Degree of protection			IP20	IP 20
Fire resistance according to UL 94			V0	V0
Dimensions	height x width x depth	[mm]	90 x 54 x 73	90 x 54 x 73
		[inches]	3.5 x 2.12 x 2.87	3.5 x 2.12 x 2.87
with auxiliary contact (TS)	height x width x depth	[mm]	99 x 54 x 73	99 x 54 x 73
		[inches]	3.89 x 2.12 x 2.87	3.89 x 2.12 x 2.87
Replacement Cartridges				
Phase Product ID			OVR PV T2 40-1000 C 2CTB802402R1000	OVR PV T2 40-1500 C 2CTB802402R1500

Technical features

Types			**OVR PV T1-T2 5-1000 P QS**	**OVR PV T1-T2 12.5-1000 P QS**	**OVR PV T1-T2 5-1500 P QS**	**OVR PV T1-T2 10-1500 P QS**
With auxiliary contact (TS)			**OVR PV T1-T2 5-1000 P TS QS**	**OVR PV T1-T2 12.5-1000 P TS QS**	**OVR PV T1-T2 5-1500 P TS QS**	**OVR PV T1-T2 10-1500 P TS QS**
Technology			Varistor	Varistor	Varistor	Varistor
Electrical features						
Standard			IEC61643-11/ IEC 61643-31	IEC61643-11/ IEC 61643-31/ UL 1449 4th Ed.	IEC61643-11/ IEC 61643-31/	IEC61643-11/ IEC 61643-31/ UL 1449 4th Ed.
Type/test class			T1-T2/I-II	T1-T2/I-II	T1-T2/I-II	T1-T2/I-II
Protected lines			2	2	2	2
Types of networks			Photovoltaic	Photovoltaic	Photovoltaic	Photovoltaic
Type of current			DC	DC	DC	DC
Nominal Voltage Un (L-N)/L-L)		[V]	1000	1000	1500	1500
Max. cont. Operating voltage Ucpv		[V]	1100	1100	1500	1500
Max.cont.operating voltage accroding Ⓤ (MCOV)			1100	1100	1500	1500
Impulse current Iimp (10/350)		[kA]	5	6.26	5	5
Total discharge current Itotal (10/350)		[kA]	5	12.5	5	10
Maximum discharge current Imax (8/20)		[kA]	40	40	30	30
Nominal discharge current In (8/20)		[kA]	20	20	20	20
Voltage protection level Up at In (L-L/L-N)		[kV]	3,8	3.8	5	5
Voltage protection rating according UL (VPR (L+/G, L-/G, L+/L-))		[kV]	3,8	2.5/2.5/2.5	-	4/4/4
Response time		[ns]	<25	<25	<25	<25
Short circuit DC current Iscpv		[A]	11	11	11	11
Short circuit withstand according Ⓤ (S_{CCR})		[kA]	-	50	-	65
Disconnector	Fuse		no need up to 11 kA	no need up to 11 kA	no need up to 11 kA	no need up to 11 kA
	Circuit breaker		no need up to 11 kA	no need up to 11 kA	no need up to 11 kA	no need up to 11 kA
Pluggable cartridge			Yes	Yes	Yes	Yes
Integrated specific thermal disconnector			Yes	Yes	Yes	Yes
State indicator			Yes	Yes	Yes	Yes
Safety Reserve			No	No	No	No
Auxiliary contact			Yes (TS option)	Yes (TS option)	Yes (TS option)	Yes (TS option)
Installation						
Wire range	Solid wire	[mm²]	2.5....35	2.5....35	2.5....35	2.5....35
(L, N, PE)	Stranded wire	[mm²]	2.5...25	2.5...25	2.5...25	2.5...25
Stripping length (L,N,PE)		[mm²]	12.5	12.5	12.5	12.5
Tightening torque (L, N, PE)		[N.m]	4.5	4.5	4.5	4.5
Auxiliary contact (TS)						
Contact complement			1 NO - 1 NC	1 NO - 1 NC	1 NO - 1 NC	1 NO - 1 NC
Minimum load			12 V DC - 0,5 mA	12 V DC - 0,5 mA	12 V DC - 0,5 mA	12 V DC - 0,5 mA
Maximum load			250 V AC - 1 A	250 V AC - 1 A	250 V AC - 1 A	250 V AC - 1 A
Connection cross-section			1.5	1.5	1.5	1.5
Miscellaneous characteristics						
Stocking and operating temperature		[°C]	-40 to +85	-40 to +85	-40 to +85	-40 to +85
Maximal Altitude		[m]	4000	4000	4000	4000
Humidity Rate HR			95%	95%	95%	95%
Degree of protection			IP 20	IP 20	IP 20	IP 20
Fire resistance according to UL 94			V0	V0	V0	V0
Dimensions	height x width	[mm]	95 x 54 x 86	95 x 54 x 86	95 x 54 x 86	95 x 54 x 86
	depth	[inches]	3.74 x 2.12 x 3.38	3.74 x 2.12 x 3.38	3.74 x 2.12 x 3.38	3.74 x 2.12 x 3.38
With auxiliary contact (TS)	height x width	[mm]	110 x 54 x 86	110 x 54 x 86	110 x 54 x 86	110 x 54 x 86
	depth	[inches]	4.33 x 2.12 x 3.38	4.33 x 2.12 x 3.38	4.33 x 2.12 x 3.38	4.33 x 2.12 x 3.38
Replacement cartridges						
Phase Product ID			OVR PV T1-T2 5-1000 C QS 2CTB812052R1000	OVR PV T1-T2 12.5-1000 C QS 2CTB812122R1000	OVR PV T1-T2 5-1500 C QS 2CTB812052R1500	OVR PV T1-T2 10-1500 C QS 2CTB812102R1500
			-	OVR PV T1-T2 12.5-1000 M C QS 2CTB812122R1001	-	OVR PV T1-T2 10-1500 M C QS 2CTB812102R1501

Protection and safety

OVR PV surge protective devices Photovoltaic networks

Specifically designed for photovoltaic DC installations, the OVR PV family provide a safe and reliable surge and lightning protection of solar panels and converters.
The OVR PV QS surge protective devices comply with EN 50539-11 and UL 1449 5th Edition.

Type T1-T2 and T2 PV

Protected lines	Impulse current Iimp 10/350	Total disch. current Itotal 10/350	Max. dischar. current Imax 8/20	Nominal current In	Voltage protection level Up	Max. cont. operating voltage Ucpv	Bbn 4053546	Order details		Weight 1 piece
	kA	kA	kA	kA	kV	V	EAN	Type code	Order code	kg
1+1 DC	5	5	40	20	3.8/3.8	1100	034615	OVR PV T1-T2 5-1000 P QS	2CTB812050R1000	0.397
1+1 DC	5	5	40	20	3.8/3.8	1100	034639	OVR PV T1-T2 5-1000 P TS QS	2CTB812051R1000	0.406
1+1 DC	6,25	12.5	40	20	3.8/3.8	1100	034660	OVR PV T1-T2 12.5-1000 P QS	2CTB812120R1000	0.453
1+1 DC	6,25	12.5	40	20	3.8/3.8	1100	034677	OVR PV T1-T2 12.5-1000 P TS QS	2CTB812121R1000	0.462
1+1 DC	5	5	30	20	5/5	1500	034646	OVR PV T1-T2 5-1500 P QS	2CTB812050R1500	0.488
1+1 DC	5	5	30	20	5/5	1500	034653	OVR PV T1-T2 5-1500 P TS QS	2CTB812051R1500	0.497
1+1 DC	5	10	30	20	5/5	1500	034684	OVR PV T1-T2 10-1500 P QS	2CTB812100R1500	0.488
1+1 DC	5	10	30	20	5/5	1500	034691	OVR PV T1-T2 10-1500 P TS QS	2CTB812101R1500	0.497
1+1 DC	-	-	40	15	5/5	1500	050240	OVR PV T2 40-1500 P	2CTB802400R1500	0.3
1+1 DC	-	-	40	15	5/5	1500	050288	OVR PV T2 40-1500 P TS	2CTB802401R1500	0.395
1+1 DC	-	-	40	20	4/4	1000	050110	OVR PV T2 40-1000 P	2CTB802400R1000	0.3
1+1 DC	-	-	40	20	4/4	1000	050165	OVR PV T2 40-1000 P TS	2CTB802401R1000	0.395



OVR PV T1-T2-5-1000 P TS QS



OVR PV T1-T2-10-1500 P TS QS



OVR PV T2 40-1500 P TS

Notes

Protection and safety

Accessories for OVR



Accessory for Cartridge Lock

Accessory for Cartridge Lock

This accessory can be fitted into the front of the socket of the SPD of the QS and PV range (for other families please consult us), QS and PV range, to guarantee an even higher withstand to vibrations and shocks, it reinforces mechanical lock between the cartridges and the socket (they are already locked by the pins in the back of the cartridge). It's recommended for stressful environments as the nazelle of the wind turbines. It's sold on packs of 50.

	Bbn 3660308	Order details		Price 1 piece	Weight 1 piece
	EAN	Type code	Order code		kg
Accessory for Cartridge Lock (x50)	526649		2CTB814355Z1200		0.01



Accessory for Auxiliary contact lock

Accessory for Auxiliary contact lock

This accessory can be fitted into the top of the auxiliary contact module and guarantees an even higher withstand to stressful environments. It reinforces the mechanical lock between the auxiliary contact module and the socket of the SPD. It's recommended in environments where the cables of the auxiliary contact can suffer pulls due to the limited length of the auxiliary cables that restrict any potential movements. It's sold on packs of 50. It can not be used on single pole devices. Please order it for multipole versions.

	Bbn 3660308	Order details		Price 1 piece	Weight 1 piece
	EAN	Type code	Order code		kg
Accessory for Auxiliary contact lock (x50)	524805		2CTB814355R2700		0.01

Label for Surge Protected Installations

This label allows the user to identify the panels where surge protection devices are fitted. It's meant to be used in the inside of the panel door and clearly states that the cartridges need to be removed to perform insulation tests. It's sold in packs of 100.

	Bbn 3660308	Order details		Price 1 piece	Weight 1 piece
	EAN	Type code	Order code		kg
Label for Surge Protected Installations (x 100)			2CTB813860R1500		0.01

Notes

Protection and safety

OVR surge protective devices – UL Version
Selection tables

Choosing the correct model

1) Determine the service voltage
Consult qualified personnel if the facility or operation service voltage is unknown.

2) Select the SPD maximum continuous operating voltage (MCOV, Uc)
The MCOV should correspond to the service voltage.
Example: If the service voltage is 480 V Delta, an SPD with 550 V or 660 V MCOV will be required.
Surge protection devices must also provide a level of protection compatible with the withstand voltage of the equipment. This withstand voltage depends on the type of equipment and its sensitivity. The incoming surge protector may not provide adequate protection by itself, as certain electrical phenomena may greatly increase its residual voltage if cable lengths exceed 10 m. A second SPD may be necessary.

3) Select the SPD surge capacity (Imax)
Surge capacity is the amount of energy the SPD can withstand from a single surge event. The higher the surge capacity, the longer the device will protect the system. A second surge protector may be required if the surge capacity of the first is not capable of diverting all surge current to ground. See coordination below.

4) Remote monitoring (Optional)
Integrated auxiliary contact for remote monitoring available on models with "TS" designation. Consult "Selection tables" on next page for help in the selection of SPDs.

Complete facility protection
Installing surge protection at the main distribution panel is only the beginning of protecting the entire operation. As most transient surges are created internally, it is necessary to install surge protection at sub-distribution panels (equipment protection) to be fully protected. Stepping down the Imax level from the service entrance panel toward equipment to be protected is recommended.
For example, if a 40 kA Imax SPD is installed in the main distribution panel, then 15 kA Imax SPDs should be installed in sub-distribution panels for equipment protection.

Coordination
It may be necessary to add a second surge protector, wired to the incoming unit, to achieve the required voltage protection and/or surge capacity. For Type 2 or 4 SPDs, installing this second unit a minimum of 1 m from the first unit will allow the two to work together, achieving the required protection.

Wiring rules
The impedance of the cables increases the voltage across the connected equipment. Therefore, the length of the cable between the surge protector and the equipment should be minimized.
The surge protective device should be installed as close to the equipment to be protected as possible. If this is not possible (the equipment is over 30 m from the panel), then a second surge protector must be installed.

Protected lines	Impulse current Iimp 10/350 kA	Max. discharge current Imax 8/20 kA	Nominal discharge current In kA	Follow current interrupting rating Ifi kA	Voltage protection Rating VPR kV	Nominal voltage Un V	Max. cont. operating voltage MCOV V	Order details Type code	Order code
Type 2 - Pluggable - Single Pole networks									
1	–	15	5	–	0.6	120	150	OVR T2 15-150 P U	2CTB802341R0000
1	–	15	5	–	1	277 ±15%	320	OVR T2 15-320 P U	2CTB802341R0400
1	–	40	20	–	0.6	120	150	OVR T2 40-150 P U	2CTB802341R2000
1	–	40	20	–	0.6	120	150	OVR T2 40-150 P TS U	2CTB802341R2100
1	–	40	20	–	1	277 ±15%	320	OVR T2 40-320 P U	2CTB802341R2400
1	–	40	20	–	1	277 ±15%	320	OVR T2 40-320 P TS U	2CTB802341R2500
Neutral									
1	–	70	20	0.1	1.2	230	275	OVR T2 70 N P U	2CTB802341R8000
Cartridges									
1	–	–	–	–	–	120 ±15%	175	OVR T2 15-150 C U	2CTB802348R2500
1	–	–	–	–	–	277 ±15%	320	OVR T2 15-320 C U	2CTB802348R2700
1	–	–	–	–	–	120 ±15%	175	OVR T2 40-150 C U	2CTB802348R3500
1	–	–	–	–	–	277 ±15%	320	OVR T2 40-320 C U	2CTB802348R3700
1	–	–	–	–	–	230	275	OVR T2 70 N C U	2CTB802348R6500

Protection and safety

OVR surge protective devices – UL Version

Selection tables

Protected lines	Impulse current Iimp 10/350 kA	Max. discharge current Imax 8/20 kA	Nominal discharge current In kA	Follow current interrupting rating Ifi kA	Voltage protection Rating VPR kV	Nominal voltage Un V	Max. cont. operating voltage MCOV V	Order details Type code	Order code
Type 2 - Pluggable - Delta networks									
3	–	15	5	–	1	277 +15%	320	OVR T2 3L 15-320 P U	2CTB802345R0400
3	–	40	20	–	1	277 ±15%	320	OVR T2 3L 40-320 P TS U	2CTB802345R2500
Cartridges									
1	–	–	–	–	–	277 ±15%	320	OVR T2 15-320 C U	2CTB802348R2700
1	–	–	–	–	–	277 ±15%	320	OVR T2 40-320 C U	2CTB802348R3700
Type 2 - Pluggable - Single Phase networks									
2	–	15	5	–	1.2	120	150	OVR T2 1N 15-150 P U	2CTB802342R0000
2	–	15	5	–	1.2	277	320	OVR T2 1N 15-320 P U	2CTB802342R0400
2	–	40	20	–	1.2	120	150	OVR T2 1N 40-150 P U	2CTB802342R2000
2	–	40	20	–	1.2	120	150	OVR T2 1N 40-150 P U (x10)	2CTB802342R8000
2	–	40	20	–	1.2	120	150	OVR T2 1N 40-150 P TS U	2CTB802342R2100
2	–	40	20	–	1.2	277	320	OVR T2 1N 40-320 P TS U	2CTB802342R2500
Cartridges									
1	–	–	–	–	–	120 ±15%	175	OVR T2 15-150 C U	2CTB802348R2500
1	–	–	–	–	–	277 ±15%	320	OVR T2 15-320 C U	2CTB802348R2700
1	–	–	–	–	–	120 ±15%	175	OVR T2 40-150 C U	2CTB802348R3500
1	–	–	–	–	–	277 ±15%	320	OVR T2 40-320 C U	2CTB802348R3700
Type 2 - Pluggable - Split Phase networks									
2	–	15	5	–	0.6	120 ±15%	175	OVR T2 2L 15-150 P U	2CTB802343R0000
2	–	15	5	–	1	277 ±15%	320	OVR T2 2L 15-320 P U	2CTB802343R0400
3	–	15	5	–	0.7	120 ±15%	175	OVR T2 2N 15-150 P U	2CTB802344R0000
3	–	15	5	–	1.1	277 ±15%	320	OVR T2 2N 15-320 P U	2CTB802344R0400
2	–	40	20	–	0.6	120 ±15%	175	OVR T2 2L 40-150 P TS U	2CTB802343R2100
2	–	40	20	–	1	277 ±15%	320	OVR T2 2L 40-320 P TS U	2CTB802343R2500
3	–	40	20	–	0.7	120 ±15%	175	OVR T2 2N 40-150 P TS U	2CTB802344R2100
3	–	40	20	–	1.1	277 ±15%	320	OVR T2 2N 40-320 P TS U	2CTB802344R2500
Cartridges									
1	–	–	–	–	–	120 ±15%	175	OVR T2 15-150 C U	2CTB802348R2500
1	–	–	–	–	–	277 ±15%	320	OVR T2 15-320 C U	2CTB802348R2700
1	–	–	–	–	–	120 ±15%	175	OVR T2 40-150 C U	2CTB802348R3500
1	–	–	–	–	–	277 ±15%	320	OVR T2 40-320 C U	2CTB802348R3700
Type 2 - Pluggable - Grounded Wye networks									
3	–	15	5	–	0.6	120 ±15%	175	OVR T2 3L 15-150 P U	2CTB802345R0000
4	–	15	5	–	0.6	120 ±15%	175	OVR T2 3N 15-150 P U	2CTB802346R0000
4	–	15	5	–	1.2	277 ±15%	320	OVR T2 3N 15-320 P U	2CTB802346R0400
3	–	40	20	–	0.6	120 ±15%	175	OVR T2 3L 40-150 P TS U	2CTB802345R2100
4	–	40	20	–	1.2	120 ±15%	175	OVR T2 3N 40-150 P TS U	2CTB802346R2100
4	–	40	20	–	1.2	277 ±15%	320	OVR T2 3N 40-320 P TS U	2CTB802346R2500
Cartridges									
1	–	–	–	–	–	120 ±15%	175	OVR T2 15-150 C U	2CTB802348R2500
1	–	–	–	–	–	120 ±15%	175	OVR T2 40-150 C U	2CTB802348R3500
1	–	–	–	–	–	277 ±15%	320	OVR T2 15-320 C U	2CTB802348R2700
1	–	–	–	–	–	277 ±15%	320	OVR T2 40-320 C U	2CTB802348R3700

Protection and safety

OVR Type 2 surge protective devices - Single pole



OVR T2 40-150 P U



OVR T2 40-440 P TS U



OVR T2 70 N P U

Descripiton

Single pole devices provide great flexibility for any kind of network configuration.
OVR T2 devices provide the best protection as they are designed to protect electric installations and sensitive equipment against indirect surges with ensuring a low protection level (VPR). They are characterized by their capacity to safely discharge current with 8/20 µs wave form.

Ordering details

Pro-tected lines	Max dis-charge current Imax 8/20	Nomi-nal dis-charge current In	Voltage protec-tion rating VPR	Nominal voltage Un	Max. cont. operat-ing voltage MCOV	Bbn 3660308	Order details		Weight Pkg (1 pce)
	kA	kA	kV	V	V	EAN	Type code	Order code	kg
Pluggable									
1	15	5	0.6	120	150	518514	OVR T2 15-150 P U	2CTB802341R0000	0.12
1	15	5	1	277 ±15%	320	518521	OVR T2 15-320 P U	2CTB802341R0400	0.12
1	40	20	0.6	120	150	518958	OVR T2 40-150 P U	2CTB802341R2000	0.12
1	40	20	0.6	120	150	518958	OVR T2 40-150 P TS U	2CTB802341R2100	0.12
1	40	20	1	277 ±15%	320	518965	OVR T2 40-320 P U	2CTB802341R2400	0.12
1	40	20	1	277 ±15%	320	518545	OVR T2 40-320 P TS U	2CTB802341R2500	0.12
Neutral - Pluggable									
1	70	20	1.2	230	275	518583	OVR T2 70 N P U	2CTB802341R8000	0.12

Protection and safety

OVR Type 2 surge protective devices - Single phase networks



OVR T2 1N 40-150 P U



OVR T2 1N 40-550 P TS U

Description

Single phase devices are composed by a MOV pole plus a spark gap one. The spark gap pole guarantees the lowest voltage protection rating and has to be connected to the Neutral.
OVR T2 devices provide the best protection as they are designed to protect electric installations and sensitive equipment against indirect surges with ensuring a low protection level (VPR). They are characterized by their capacity to safely discharge current with 8/20 µs wave form.

Ordering details

Protected lines	Max discharge current Imax 8/20	Nominal discharge current In	Voltage protection rating VPR	Nominal voltage Un	Max. cont. operating voltage MCOV, Uc	Bbn 3660308	Order details		Weight Pkg (1 pce)
	kA	kA	kV	V	V	EAN	Type code	Order code	kg
Pluggable									
2	15	5	1.2	120	150	519238	OVR T2 1N 15-150 P U	2CTB802342R0000	0.24
2	15	5	1.2	277	320	519245	OVR T2 1N 15-320 P U	2CTB802342R0400	0.24
2	40	20	1.2	120	150	520869	OVR T2 1N 40-150 P U	2CTB802342R2000	0.24
2	40	20	1.2	120	150	520876	OVR T2 1N 40-150 P U (x10)	2CTB802342R8000	0.24
2	40	20	1.2	120	150	819252	OVR T2 1N 40-150 P TS U	2CTB802342R2100	0.24
2	40	20	1.2	277	320	519269	OVR T2 1N 40-320 P TS U	2CTB802342R2500	0.24

(x10) packaging of 10 pieces.

Protection and safety

OVR Type 2 surge protective devices - Single pole



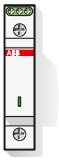


General technical data

Type			OVR T2 15-150 P U	OVR T2 15-320 P U	OVR T2 40-150 P U
with auxiliary contact (TS)			–	–	OVR T2 40-150 P TS U
Technology			Varistor	Varistor	Varistor
Electrical features					
Standard			UL 1449	UL 1449	UL 1449
Type / test class (UL 1449)			1	1	1
Protected lines			1	1	1
System network			–	–	–
Type of current / frequency			AC 47-63 Hz	AC 47-63 Hz	AC 47-63 Hz
Voltage regulation of the system network			±15%	±15%	±15%
Nominal system voltage Un			120 V	277 V	120 V
Maximum continuous operating voltage MCOV			150 V	320 V	150 V
Maximal discharge current (8/20) Imax			15 kA	15 kA	40 kA
Nominal discharge current (8/20) In			5 kA	5 kA	20 kA
Voltage protection rating (L-N / N-G / L-G) VPR			0.6 kV	1 kV	0.6 kV
Response time			< 25 ns	< 25 ns	< 25 ns
Short circuit withstand SCCR			200 kA	200 kA	200 kA
Back up protection maximum rating	fuse (gG - gL)		≤ 100 A	≤ 100 A	≤ 100 A
	circuit breaker (B or C Curve)		≤ 125 A	≤ 125 A	≤ 125 A
Pluggable cartridges			Yes	Yes	Yes
Integrated QuickSafe® technology			Yes	Yes	Yes
State indicator			Yes	Yes	Yes
Safety reserve			–	–	–
Auxiliary contact (TS)			No	No	Yes (TS option)
Installation					
Wire range (L,N,PE)	solid wire		2.5…25 / 4…14 mm²	2.5…25 / 4…14 mm²	2.5…25 / 4…14 mm²
	stranded wire		2.5…16 / 6…14 mm²	2.5…16 / 6…14 mm²	2.5…16 / 6…14 mm²
Stripping length (L,N,PE)			12.5 / 0.5 mm	12.5 / 0.5 mm	12.5 / 0.5 mm
Tightening torque (L,N,PE)			2.8 / 24.5 Nm	2.8 / 24.5 Nm	2.8 / 24.5 Nm
Auxiliary contact (TS)					
Contact information			–	–	1 NO – 1 NC
Min. load			–	–	12 V DC – 10 mA
Max. load			–	–	250 V AC – 1 A
Connection cross section			–	–	1.5 / 16 mm²
Miscellaneous characteristics					
Stocking temperature			-40…+80 °C	-40…+80 °C	-40…+80 °C
Maximal Altitude			5 000 m	5 000 m	5 000 m
Operating temperature			-40…+176 °C	-40…+176 °C	-40…+176 °C
Degree of protection			NEMA 1	NEMA 1	NEMA 1
Fire resistance according to UL 94			V0	V0	V0
Dimensions	mm	h x w x d	88 x 17.8 x 64.8 mm	88 x 17.8 x 64.8 mm	88 x 17.8 x 64.8 mm
	inches	h x w x d	3.46 x 0.7 x 2.55 in	3.46 x 0.7 x 2.55 in	3.46 x 0.7 x 2.55 in
Dimensions with auxiliary contact (TS)	mm	h x w x d	–	–	96 x 17.8 x 64.8 mm
	inches	h x w x d	–	–	3.78 x 0.7 x 2.55 in
Replacement cartridges					
Phase product ID	Type		OVR T2 15-150 C U	OVR T2 15-320 C U	OVR T2 40-150 C U
	Order code		2CTB802348R2500	2CTB802348R2700	2CTB802348R3500
Neutral product ID	Type		–	–	–
	Order code		–	–	–

Protection and safety

OVR Type 2 surge protective devices - Single pole

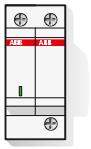


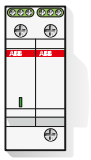


	OVR T2 40-320 P U	**OVR T2 70 N P U**
	OVR T2 40-320 P TS U	**–**
	Varistor	Spark gap
	UL 1449	UL 1449
	1	4
	1	1
	–	–
	AC 47-63 Hz	AC 47-63 Hz
	±15%	+15%
	277 V	230 V
	320 V	275 V
	40 kA	70 kA
	20 kA	20 kA
	1 kV	1.2 kV
	< 25 ns	< 25 ns
	200 kA	200 kA
	≤ 100 A	≤ 100 A
	≤ 125 A	≤ 125 A
	Yes	Yes
	Yes	No
	Yes	Yes
	–	–
	Yes (TS option)	No
	2.5…25 / 4…14 mm²	2.5…25 / 4…14 mm²
	2.5…16 / 6…14 mm²	2.5…16 / 6…14 mm²
	12.5 / 0.5 mm	12.5 / 0.5 mm
	2.8 / 24.5 Nm	2.8 / 24.5 Nm
	1 NO – 1 NC	–
	12 V DC – 10 mA	–
	250 V AC – 1 A	–
	1.5 / 16 mm²	–
	-40...+80 °C	-40...+80 °C
	5 000 m	5 000 m
	-40...+176 °C	-40...+176 °C
	NEMA 1	NEMA 1
	V0	V0
	88 x 17.8 x 64.8 mm	88 x 17.8 x 64.8 mm
	3.46 x 0.7 x 2.55 in	3.46 x 0.7 x 2.55 in
	96 x 17.8 x 64.8 mm	–
	3.78 x 0.7 x 2.55 in	–
	OVR T2 40-320 C U	–
	2CTB802348R3700	–
	–	OVR T2 70 N C U
	–	2CTB802348R6500

Protection and safety

OVR Type 2 surge protective devices - Single phase networks



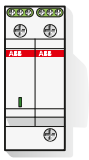


General technical data

Type			OVR T2 1N 15-150 P U	OVR T2 1N 15-320 P U	OVR T2 1N 40-150 P U
with auxiliary contact (TS)			–	–	OVR T2 1N 40-150 P TS U
Electrical features					
Standards			UL 1449	UL 1449	UL 1449
Type / test class (UL 1449)			4	4	4
Protected lines			2	2	2
Type of current / frequency			AC 47-63 Hz	AC 47-63 Hz	AC 47-63 Hz
Voltage regulation of the system network			±15%	±15%	±15%
Nominal system voltage Un			120 V	277 V	120 V
Maximum continuous operating voltage MCOV			150 V	320 V	150 V
Maximal discharge current (8/20) Imax			15 kA	15 kA	40 kA
Nominal discharge current (8/20) In			5 kA	5 kA	20 kA
Voltage protection rating (L-N / N-G / L-G) VPR			1.2 kV	1.2 kV	1.2 kV
Response time			< 25 ns	< 25 ns	< 25 ns
Short circuit withstand	SCCR		200 kA	200 kA	200 kA
Back up protection maximum rating	fuse (gG - gL)		≤ 100 A	≤ 100 A	≤ 100 A
	circuit breaker (B or C curve)		≤ 125 A	≤ 125 A	≤ 125 A
Pluggable cartridges			Yes	Yes	Yes
Integrated QuickSafe® technology			Yes	Yes	Yes
State indicator			Yes	Yes	Yes
Safety reserve			–	–	–
Auxiliary contact (TS)			No	No	Yes (TS option)
Installation					
Wire range (L,N,PE)	solid wire		2.5…25 / 4…14 mm²	2.5…25 / 4…14 mm²	2.5…25 / 4…14 mm²
	stranded wire		2.5…16 / 6…14 mm²	2.5…16 / 6…14 mm²	2.5…16 / 6…14 mm²
Stripping length (L,N,PE)			12.5 / 0.5 mm	12.5 / 0.5 mm	12.5 / 0.5 mm
Tightening torque (L,N,PE)			2.8 / 24.5 Nm	2.8 / 24.5 Nm	2.8 / 24.5 Nm
Auxiliary contact (TS)					
Contact information					2 NO – 2 NC
Min. load					12 V DC – 10 mA
Max. load					250 V AC – 1 A
Connection cross section					1.5 / 16 mm²
Miscellaneous characteristics					
Stocking temperature			-40...+80 °C	-40...+80 °C	-40...+80 °C
Maximal Altitude			5 000 m	5 000 m	5 000 m
Operating temperature			-40...+176 °C	-40...+176 °C	-40...+176 °C
Degree of protection			NEMA 1	NEMA 1	NEMA 1
Fire resistance according to UL 94			V0	V0	V0
Dimensions	mm	h x w x d	90.5 x 35.6 x 64.8 mm	90.5 x 35.6 x 64.8 mm	90.5 x 35.6 x 64.8 mm
	inches	h x w x d	3.56 x 1.4 x 2.55 in	3.56 x 1.4 x 2.55 in	3.56 x 1.4 x 2.55 in
Dimensions with auxiliary contact (TS)	mm	h x w x d	–	–	98.5 x 35.6 x 64.8 mm
	inches	h x w x d	–	–	3.88 x 1.4 x 2.55 in
Replacement cartridges					
Phase product ID	Type		OVR T2 15-150 C U	OVR T2 15-320 C U	OVR T2 40-150 C U
	Order code		2CTB802348R2500	2CTB802348R2700	2CTB802348R3500
Neutral product ID	Type		OVR T2 70 N C U	OVR T2 70 N C U	OVR T2 70 N C U
	Order code		2CTB802348R6500	2CTB802348R6500	2CTB802348R6500

Protection and safety

OVR Type 2 surge protective devices - Single phase networks



	–
	OVR T2 1N 40-320 P TS U
	UL 1449
	4
	2
	AC 47-63 Hz
	±15%
	277 V
	320 V
	40 kA
	20 kA
	1.2 kV
	< 25 ns
	200 kA
	≤ 100 A
	≤ 125 A
	Yes
	Yes
	Yes
	–
	Yes
	2.5…25 / 4…14 mm²
	2.5…16 / 6…14 mm²
	12.5 / 0.5 mm
	2.8 / 24.5 Nm
	2 NO – 2 NC
	12 V DC – 10 mA
	250 V AC – 1 A
	1.5 / 16 mm²
	-40...+80 °C
	5 000 m
	-40...+176 °C
	NEMA 1
	V0
	–
	–
	98.5 x 35.6 x 64.8 mm
	3.88 x 1.4 x 2.55 in
	OVR T2 40-320 C U
	2CTB802348R3700
	OVR T2 70 N C U
	2CTB802348R6500

Protection and safety

OVR Type 2 surge protective devices - Delta networks



OVR T2 3L 15-320 P U



OVR T2 3L 40-320 P TS U

Description

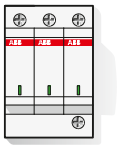
Delta devices provide the protection required by the three phases of a Delta network system.
OVR T2 devices provide the best protection as they are designed to protect electric installations and sensitive equipment against indirect surges with ensuring a low protection level (VPR). They are characterized by their capacity to safely discharge current with 8/20 µs wave form.

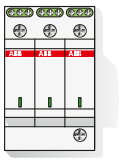
Ordering details

Protected lines	Max discharge current Imax 8/20	Nominal discharge current In	Voltage protection rating VPR	Nominal voltage Un	Max. cont. operating voltage MCOV, Uc	Bbn 3660308	Type	Order code	Weight Pkg (1 pce)
	kA	kA	kV	V	V	EAN			kg
Pluggable									
3	15	5	1	277 ±15%	320	518644	OVR T2 3L 15-320 P U	2CTB802345R0400	0.36
3	40	20	1	277 ±15%	320	518668	OVR T2 3L 40-320 P TS U	2CTB802345R2500	0.36

Protection and safety

OVR Type 2 surge protective devices - Delta networks





General technical data

	Type			**OVR T2 3L 15-320 P U**	**–**
	with auxiliary contact (TS)			**–**	**OVR T2 3L 40-320 P TS U**
Electrical features					
	Standards			UL 1449	UL 1449
	Type / test class (UL 1449)			1	1
	Protected lines			3	3
	Type of current / frequency			AC 47-63 Hz	AC 47-63 Hz
	Voltage regulation of the system network			±15%	±15%
	Nominal system voltage Un			277 V	277 V
	Maximum continuous operating voltage MCOV			320 V	320 V
	Maximal discharge current (8/20) Imax			15 kA	40 kA
	Nominal discharge current (8/20) In			5 kA	20 kA
	Voltage protection rating (L-N / N-G / L-G) VPR			1 kV	1 kV
	Response time			< 25 ns	< 25 ns
	Short circuit withstand	SCCR		200 kA	200 kA
	Back up protection maximum rating	fuse (gG - gL)		≤ 100 A	≤ 100 A
		circuit breaker (B or C curve)		≤ 125 A	≤ 125 A
	Pluggable cartridges			Yes	Yes
	Integrated QuickSafe® technology			Yes	Yes
	State indicator			Yes	Yes
	Safety reserve			–	–
	Auxiliary contact (TS)			No	Yes
Installation					
	Wire range (L,N,PE)	solid wire		2.5…25 / 4…14 mm²	2.5…25 / 4…14 mm²
		stranded wire		2.5…16 / 6…14 mm²	2.5…16 / 6…14 mm²
	Stripping length (L,N,PE)			12.5 / 0.5 mm	12.5 / 0.5 mm
	Tightening torque (L,N,PE)			2.8 / 24.5 Nm	2.8 / 24.5 Nm
Auxiliary contact (TS)					
	Contact information			–	3 NO – 3 NC
	Min. load			–	12 V DC – 10 mA
	Max. load			–	250 V AC – 1 A
	Connection cross section			–	1.5 / 16 mm²
Miscellaneous characteristics					
	Stocking temperature			-40…+80 °C	-40…+80 °C
	Maximal Altitude			5 000 m	5 000 m
	Operating temperature			-40…+176 °C	-40…+176 °C
	Degree of protection			NEMA 1	NEMA 1
	Fire resistance according to UL 94			V0	V0
	Dimensions	mm	h x w x d	90.5 x 53.4 x 64.8 mm	–
		inches	h x w x d	3.56 x 2.1 x 2.55 in	–
	Dimensions with auxiliary contact (TS)	mm	h x w x d	–	98.5 x 53.4 x 64.8 mm
		inches	h x w x d	–	3.88 x 2.1 x 2.55 in
Replacement cartridges					
	Phase product ID	Type		OVR T2 15-320 C U	OVR T2 40-320 C U
		Order code		2CTB802348R2700	2CTB802348R3700
	Neutral product ID	Type		–	–
		Order code		–	–

Protection and safety

OVR Type 2 surge protective devices - Split phase networks



OVR T2 2L 15-320 P U



OVR T2 2L 40-320 P TS U



OVR T2 2N 15-320 P U

Description

Split phase devices are composed by two MOV poles or two MOV poles plus a spark gap one, depending on the number of lines the customer wants to pretect.The spark gap pole guarantees the lowest voltage protection rating and has to be connected to the neutral.
OVR T2 devices provide the best protection as they are designed to protect electric installations and sensitive equipment against indirect surges with ensuring a low protection level (VPR). They are characterized by their capacity to safely discharge current with 8/20 µs wave form.

Ordering details

Protected lines	Max discharge current Imax 8/20	Nominal discharge current In	Voltage protection rating VPR	Nominal voltage Un	Max. cont. operating voltage MCOV, Uc	Bbn 3660308	Type	Order code	Weight Pkg (1 pce)
	kA	kA	kV	V	V	EAN			kg
Pluggable									
2	15	5	0.6	120 ±15%	175	518590	OVR T2 2L 15-150 P U	2CTB802343R0000	0.24
2	15	5	1	277 ±15%	320	518606	OVR T2 2L 15-320 P U	2CTB802343R0400	0.24
2	40	20	0.6	120 ±15%	175	518613	OVR T2 2L 40-150 P TS U	2CTB802343R2100	0.24
2	40	20	1	277 ±15%	320	518620	OVR T2 2L 40-320 P TS U	2CTB802343R2500	0.24
3	15	5	0.7	120 ±15%	175	519306	OVR T2 2N 15-150 P U	2CTB802344R0000	0.36
3	15	5	1.1	277 ±15%	320	519313	OVR T2 2N 15-320 P U	2CTB802344R0400	0.36
3	40	20	0.7	120 ±15%	175	519320	OVR T2 2N 40-150 P TS U	2CTB802344R2100	0.36
3	40	20	1.1	277 ±15%	320	519337	OVR T2 2N 40-320 P TS U	2CTB802344R2500	0.36

Protection and safety

OVR Type 2 surge protective devices - Grounded Wye networks



OVR T2 3L 40-440 P TS U

Description

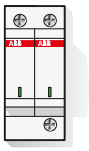
Wye devices are composed by three MOV poles or three MOV poles plus a spark gap one, depending on the number of lines the customer wants to protect. The spark gap pole guarantees the lowest voltage protection rating and has to be connected to the Neutral.
OVR T2 devices provide the best protection as they are designed to protect electric installations and sensitive equipment against indirect surges with ensuring a low protection level (VPR). They are characterized by their capacity to safely discharge current with 8/20 µs wave form.

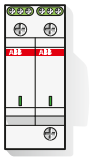
Ordering details

Protected lines	Max discharge current Imax 8/20	Nominal discharge current In	Voltage protection rating VPR	Nominal voltage Un	Max. cont. operating voltage MCOV, Uc	Bbn 3660308	Type	Order code	Weight Pkg (1 pce)
	kA	kA	kV	V	V	EAN			kg
Pluggable									
3	15	5	0.6	120 ±15%	175	518637	OVR T2 3L 15-150 P U	2CTB802345R0000	0.36
3	40	20	0.6	120 ±15%	175	518651	OVR T2 3L 40-150 P TS U	2CTB802345R2100	0.36
4	15	5	1.2	120 ±15%	175	518699	OVR T2 3N 15-150 P U	2CTB802346R0000	0.48
4	15	5	1.2	277 ±15%	320	518705	OVR T2 3N 15-320 P U	2CTB802346R0400	0.48
4	40	20	1.2	120 ±15%	175	518712	OVR T2 3N 40-150 P TS U	2CTB802346R2100	0.48
4	40	20	1.2	277 ±15%	320	518729	OVR T2 3N 40-320 P TS U	2CTB802346R2500	0.48

Protection and safety

OVR Type 2 surge protective devices - Split phase networks



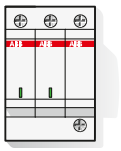


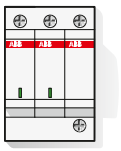
General technical data

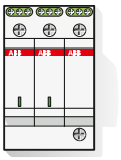
Type			**OVR T2 2L 15-150 P U**	**OVR T2 2L 15-320 P U**	**–**	**–**
with auxiliary contact (TS)			**–**	**–**	**OVR T2 2L 40-150 P TS U**	**OVR T2 2L 40-320 P TS U**
Electrical features						
Standards			UL 1449	UL 1449	UL 1449	UL 1449
Type / test class (UL 1449)			1	1	1	1
Protected lines			2	2	2	2
Type of current / frequency			AC 47-63 Hz	AC 47-63 Hz	AC 47-63 Hz	AC 47-63 Hz
Voltage regulation of the system network			±15%	±15%	±15%	±15%
Nominal system voltage Un			120 V	277 V	120 V	277 V
Maximum continuous operating voltage MCOV			175 V	320 V	175 V	320 V
Maximal discharge current (8/20) Imax			15 kA	15 kA	40 kA	40 kA
Nominal discharge current (8/20) In			5 kA	5 kA	20 kA	20 kA
Voltage protection rating (L-N / N-G / L-G) VPR			0.6 kV	1 kV	0.6 kV	1 kV
Response time			< 25 ns	< 25 ns	< 25 ns	< 25 ns
Short circuit withstand SCCR			200 kA	200 kA	200 kA	200 kA
Back up protection maximum rating	fuse (gG - gL)		≤ 100 A	≤ 100 A	≤ 100 A	≤ 100 A
	circuit breaker (B or C curve)		≤ 125 A	≤ 125 A	≤ 125 A	≤ 125 A
Pluggable cartridges			Yes	Yes	Yes	Yes
Integrated QuickSafe® technology			Yes	Yes	Yes	Yes
State indicator			Yes	Yes	Yes	Yes
Safety reserve			–	–	–	–
Auxiliary contact (TS)			No	No	Yes	Yes
Installation						
Wire range (L,N,PE)	solid wire		2.5…25 / 4…14 mm²	2.5…25 / 4…14 mm²	2.5…25 / 4…14 mm²	2.5…25 / 4…14 mm²
	stranded wire		2.5…16 / 6…14 mm²	2.5…16 / 6…14 mm²	2.5…16 / 6…14 mm²	2.5…16 / 6…14 mm²
Stripping length (L,N,PE)			12.5 / 0.5	12.5 / 0.5	12.5 / 0.5	12.5 / 0.5
Tightening torque (L,N,PE)			2.8 / 24.5 Nm	2.8 / 24.5 Nm	2.8 / 24.5 Nm	2.8 / 24.5 Nm
Auxiliary contact (TS)						
Contact information			–	–	2 NO – 2 NC	2 NO – 2 NC
Min. load			–	–	12 V DC – 10 mA	12 V DC – 10 mA
Max. load			–	–	250 V AC – 1 A	250 V AC – 1 A
Connection cross section			–	–	1.5 / 16 mm²	1.5 / 16 mm²
Miscellaneous characteristics						
Stocking temperature			-40...+80 °C	-40...+80 °C	-40...+80 °C	-40...+80 °C
Maximal Altitude			5 000 m	5 000 m	5 000 m	5 000 m
Operating temperature			-40...+176 °C	-40...+176 °C	-40...+176 °C	-40...+176 °C
Degree of protection			NEMA 1	NEMA 1	NEMA 1	NEMA 1
Fire resistance according to UL 94			V0	V0	V0	V0
Dimensions	mm	h x w x d	90.5 x 35.6 x 64.8 mm	90.5 x 35.6 x 64.8 mm	–	–
	inches	h x w x d	3.56 x 1.4 x 2.55 in	3.56 x 1.4 x 2.55 in	–	–
Dimensions with auxiliary contact (TS)	mm	h x w x d	–	–	98.5 x 35.6 x 64.8 mm	98.5 x 35.6 x 64.8 mm
	inches	h x w x d	–	–	3.88 x 1.4 x 2.55 in	3.88 x 1.4 x 2.55 in
Replacement cartridges			–	–	–	–
Phase product ID	Type		OVR T2 15-150 C U	OVR T2 15-320 C U	OVR T2 40-150 C U	OVR T2 40-320 C U
	Order code		2CTB802348R2500	2CTB802348R2700	2CTB802348R3500	2CTB802348R3700
Neutral product ID	Type		–	–	–	–
	Order code		–	–	–	–

Protection and safety

OVR Type 2 surge protective devices - Split phase networks



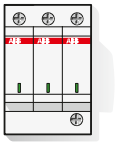


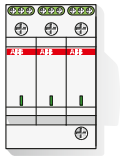


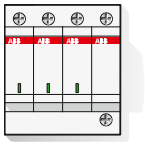
OVR T2 2N 15-150 P U	**OVR T2 2N 15-320 P U**	**–**	**–**
–	**–**	**OVR T2 2N 40-150 P TS U**	**OVR T2 2N 40-320 P TS U**
UL 1449	UL 1449	UL 1449	UL 1449
4	4	4	4
3	3	3	3
AC 47-63 Hz	AC 47-63 Hz	AC 47-63 Hz	AC 47-63 Hz
±15%	±15%	±15%	±15%
120 V	277 V	120 V	277 V
175 V	320 V	175 V	320 V
15 kA	15 kA	40 kA	40 kA
5 kA	5 kA	20 kA	20 kA
0.7 kV	1.1 kV	0.7 kV	1.1 kV
< 25 ns	< 25 ns	< 25 ns	< 25 ns
200 kA	200 kA	200 kA	200 kA
≤ 100 A	≤ 100 A	≤ 100 A	≤ 100 A
≤ 125 A	≤ 125 A	≤ 125 A	≤ 125 A
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
–	–	–	–
No	No	Yes	Yes
2.5…25 / 4…14 mm²	2.5…25 / 4…14 mm²	2.5…25 / 4…14 mm²	2.5…25 / 4…14 mm²
2.5…16 / 6…14 mm²	2.5…16 / 6…14 mm²	2.5…16 / 6…14 mm²	2.5…16 / 6…14 mm²
12.5 / 0.5	12.5 / 0.5	12.5 / 0.5	12.5 / 0.5
2.8 / 24.5 Nm	2.8 / 24.5 Nm	2.8 / 24.5 Nm	2.8 / 24.5 Nm
–	–	3 NO – 3 NC	3 NO – 3 NC
–	–	12 V DC – 10 mA	12 V DC – 10 mA
–	–	250 V AC – 1 A	250 V AC – 1 A
–	–	1.5 / 16 mm²	1.5 / 16 mm²
-40…+80 °C	-40…+80 °C	-40…+80 °C	-40…+80 °C
5 000 m	5 000 m	5 000 m	5 000 m
-40…+176 °C	-40…+176 °C	-40…+176 °C	-40…+176 °C
NEMA 1	NEMA 1	NEMA 1	NEMA 1
V0	V0	V0	V0
90.5 x 53.4 x 64.8 mm	90.5 x 53.4 x 64.8 mm	–	–
3.56 x 2.1 x 2.55 in	3.56 x 2.1 x 2.55 in	–	–
–	–	98.5 x 53.4 x 64.8 mm	98.5 x 53.4 x 64.8 mm
–	–	3.88 x 2.1 x 2.55 in	3.88 x 2.1 x 2.55 in
–	**–**	**1 NO – 1 NC**	**1 NO – 1 NC**
OVR T2 15-150 C U	OVR T2 15-320 C U	OVR T2 40-150 C U	OVR T2 40-320 C U
2CTB802348R2500	2CTB802348R2700	2CTB802348R3500	2CTB802348R3700
OVR T2 70 N C U	OVR T2 70 N C U	OVR T2 70 N C U	OVR T2 70 N C U
2CTB802348R6500	2CTB802348R6500	2CTB802348R6500	2CTB802348R6500

Protection and safety

OVR Type 2 surge protective devices - Grounded Wye networks





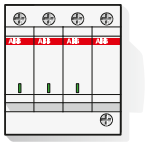


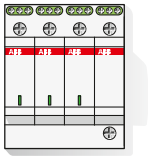
General technical data

Type			**OVR T2 3L 15-150 P U**	**–**	**OVR T2 3N 15-150 P U**
with auxiliary contact (TS)			**–**	**OVR T2 3L 40-150 P TS U**	**–**
Electrical features					
Standards			UL 1449	UL 1449	UL 1449
Type / test class (UL 1449)			1	1	4
Protected lines			3	3	4
Type of current / frequency			AC 47-63 Hz	AC 47-63 Hz	AC 47-63 Hz
Voltage regulation of the system network			±15%	±15%	±15%
Nominal system voltage Un			120 V	120 V	120 V
Maximum continuous operating voltage MCOV			175 V	175 V	175 V
Maximal discharge current (8/20) Imax			15 kA	40 kA	15 kA
Nominal discharge current (8/20) In			5 kA	10 kA	5 kA
Voltage protection rating (L-N / N-G / L-G VPR)			0.6 kV	0.6 kV	0.6 kV
Response time			< 25 ns	< 25 ns	< 25 ns
Short circuit withstand	SCCR		200 kA	200 kA	200 kA
Back up protection maximum rating	fuse (gG - gL)		≤ 100 A	≤ 100 A	≤ 100 A
	circuit breaker (B or C curve)		≤ 125 A	≤ 125 A	≤ 125 A
Pluggable cartridges			Yes	Yes	Yes
Integrated QuickSafe® technology			Yes	Yes	Yes
State indicator			Yes	Yes	Yes
Safety reserve			–	–	–
Auxiliary contact (TS)			No	Yes	No
Installation					
Wire range (L,N,PE)	solid wire		2.5…25 / 4…14 mm²	2.5…25 / 4…14 mm²	2.5…25 / 4…14 mm²
	stranded wire		2.5…16 / 6…14 mm²	2.5…16 / 6…14 mm²	2.5…16 / 6…14 mm²
Stripping length (L,N,PE)			12.5 / 0.5 mm	12.5 / 0.5 mm	12.5 / 0.5 mm
Tightening torque (L,N,PE)			2.8 / 24.5 Nm	2.8 / 24.5 Nm	2.8 / 24.5 Nm
Auxiliary contact (TS)					
Contact information			–	4 NO – 4 NC	–
Min. load			–	12 V DC – 10 mA	–
Max. load			–	250 V AC – 1 A	–
Connection cross section			–	1.5 / 16 mm²	–
Miscellaneous characteristics					
Stocking temperature			-40...+80 °C	-40...+80 °C	-40...+80 °C
Maximal Altitude			5 000 m	5 000 m	5 000 m
Operating temperature			-40...+176 °C	-40...+176 °C	-40...+176 °C
Degree of protection			NEMA 1	NEMA 1	NEMA 1
Fire resistance according to UL 94			V0	V0	V0
Dimensions	mm	h x w x d	90.5 x 53.4 x 64.8 mm	–	90.5 x 71.2 x 64.8 mm
	inches	h x w x d	3.56 x 2.1 x 2.55 in	–	3.56 x 2.8 x 2.55 in
Dimensions with auxiliary contact (TS)	mm	h x w x d	–	98.5 x 53.4 x 64.8 mm	–
	inches	h x w x d	–	3.88 x 2.1 x 2.55 in	–
Replacement cartridges					
Phase product ID	Type		OVR T2 15-150 C U	OVR T2 40-150 C U	OVR T2 15-150 C U
	Order code		2CTB802348R2500	2CTB802348R3500	2CTB802348R2500
Neutral product ID	Type		–	–	OVR T2 70 N C U
	Order code		–	–	2CTB802348R6500

Protection and safety

OVR Type 2 surge protective devices - Grounded Wye networks





OVR T2 3N 15-320 P U	**–**	**–**
–	**OVR T2 3N 40-150 P TS U**	**OVR T2 3N 40-320 P TS U**
UL 1449	UL 1449	UL 1449
4	4	4
4	4	4
AC 47-63 Hz	AC 47-63 Hz	AC 47-63 Hz
±15%	±15%	±15%
277 V	120 V	277 V
320 V	175 V	320 V
15 kA	40 kA	40 kA
5 kA	20 kA	20 kA
1 kV	1.2 kV	1.2 kV
< 25 ns	< 25 ns	< 25 ns
200 kA	200 kA	200 kA
≤ 100 A	≤ 100 A	≤ 100 A
≤ 125 A	≤ 125 A	≤ 125 A
Yes	Yes	Yes
Yes	Yes	Yes
Yes	Yes	Yes
–	–	–
No	Yes	Yes
2.5…25 / 4…14 mm²	2.5…25 / 4…14 mm²	2.5…25 / 4…14 mm²
2.5…16 / 6…14 mm²	2.5…16 / 6…14 mm²	2.5…16 / 6…14 mm²
12.5 / 0.5 mm	12.5 / 0.5 mm	12.5 / 0.5 mm
2.8 / 24.5 Nm	2.8 / 24.5 Nm	2.8 / 24.5 Nm
–	4 NO – 4 NC	4 NO – 4 NC
–	12 V DC – 10 mA	12 V DC – 10 mA
–	250 V AC – 1 A	250 V AC – 1 A
–	1.5 / 16 mm²	1.5 / 16 mm²
-40…+80 °C	-40…+80 °C	-40…+80 °C
5 000 m	5 000 m	5 000 m
-40…+176 °C	-40…+176 °C	-40…+176 °C
NEMA 1	NEMA 1	NEMA 1
V0	V0	V0
90.5 x 71.2 x 64.8 mm	–	–
3.56 x 2.8 x 2.55 in	–	–
–	98.5 x 71.2 x 64.8 mm	98.5 x 71.2 x 64.8 mm
–	3.88 x 2.8 x 2.55 in	3.88 x 2.8 x 2.55 in
OVR T2 15-320 C U	OVR T2 40-150 C U	OVR T2 40-320 C U
2CTB802348R2700	2CTB802348R3500	2CTB802348R3700
OVR T2 70 N C U	OVR T2 70 N C U	OVR T2 70 N C U
2CTB802348R6500	2CTB802348R6500	2CTB802348R6500

OVRH UL version
Product range overview





Name	OVRHTP	OVRHT3B
SPD type	Type 1	Type 1
Certifications	UL 1449	UL 1449
Surge ratings	60, 80, 100, 120, 160, 200, 240, 300, 400 kA per phase	50 kA per phase
LEDs	Yes	Yes
Dry relay contacts	Optional	Not available
EMI filter	Optional	Not available
Surge counter	Optional	Not available
Warranty	10 years	3 years







OVRHT3C	**OVRHS3U**	**OVRHLD**
Type 1	Type 1 and Type 2	Type 1
UL 1449	UL 1449	UL 1449
50 kA per phase	40 kA per phase	20, 25, 30 kA per phase
Yes	Yes	Yes
Not available	Optional	Not available
Not available	Not available	Not available
Not available	Not available	Not available
3 years	3 year	3 year

OVRHTP series
OVRHTP (60 to 200 kA)

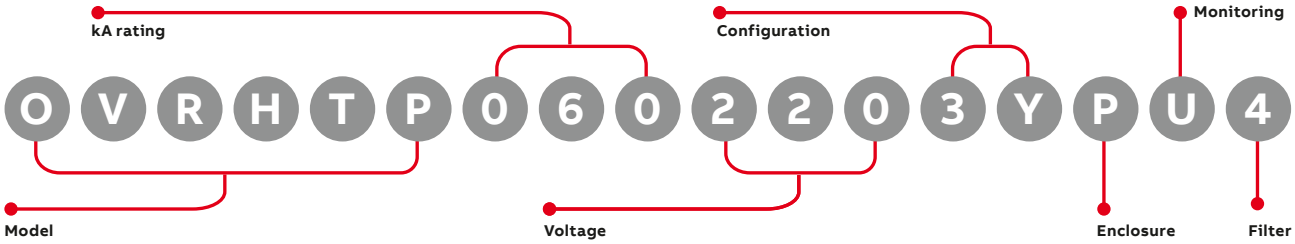


Product features

- UL Listed 1449 4th edition for Type 1 and Type 2
- SPD applications
- Thermally protected MOVs provide superior protection and continuous operation
- 200 kAIC short circuit current rating allows direct bus connection without the need for an upstream over-current protection device
- UL 1283 EMI/RF filter available as an option
- Compact and lightweight design
- 10-year standard warranty

c UL US LISTED

RoHS Compliant



kA rating	Suffix
60 kA per phase, 30 kA per mode	060
80 kA per phase, 40 kA per mode	080
100 kA per phase, 50 kA per mode	100
120 kA per phase, 60 kA per mode	120
160 kA per phase, 80 kA per mode	160
200 kA per phase, 100 kA per mode	200

Voltage and configuration (must choose one)	Suffix
120 V, 1-phase, 2-wire + ground	1201P
127 V, 1-phase, 2-wire + ground	1271P
220 V, 1-phase, 2-wire + ground	2201P
230 V, 1-phase, 2-wire + ground	2301P
240 V, 1-phase, 2-wire + ground	2401P
277 V, 1-phase, 2-wire + ground	2771P
240/120 V, 2-phase, 3-wire + ground	1202S
480/240 V, 2-phase, 3-wire + ground	2402S
240Δ /120 V, 3-phase high-leg , 4-wire + ground	1203H
208Y/120 V, 3-phase Wye, 4-wire + ground	1203Y
380Y/220 V, 3-phase Wye, 4-wire + ground	2203Y
400Y/230 V, 3-phase Wye, 4-wire + ground	2303Y
415Y/240 V, 3-phase Wye, 4-wire + ground	2403Y
480Y/277 V, 3-phase Wye, 4-wire + ground	2773Y
600Y/347 V, 3-phase Wye, 4-wire + ground	3473Y
208 V, 3-phase Delta, 3-wire + ground	2083D
240 V, 3-phase Delta, 3-wire + ground	2403D
415 V, 3-phase Delta, 3-wire + ground	4153D
480 V, 3-phase Delta, 3-wire + ground	4803D
600 V, 3-phase Delta, 3-wire + ground	6003D
1-phase, 2-wire + ground (for TNC grounding systems)	2301PI
1-phase, 2-wire + ground (for TNS grounding systems)	2301PJ
1-phase, 2-wire + ground (for IT grounding systems)	2301PK
1-phase, 2-wire + ground (for TT grounding systems)	2301P

Enclosure option	Suffix
Fiberglass-reinforced polyester, NEMA 4X	P
Powder-coated metal NEMA 4	4
Stainless steel NEMA 4X	S

Monitoring option (must choose one)	Suffix
Status indicator LED lights (one per phase)	B
Status indicator LED lights (one per phase), dry relay contacts, audible alarm with silence button, fault light	U
Status indicator LED lights (one per phase), surge counter, dry relay contacts, audible alarm with silence button, fault light	UE

(only available in 120, 160, 200 kA per phase)

Filter option	Suffix
4 UF filter	4
UL 1283 filter making device a Type 2	T2
No filter	0

Product specifications

Electrical	
60 kA per phase, 30 kA per mode	
80 kA per phase, 40 kA per mode	
100 kA per phase, 50 kA per mode	
120 kA per phase, 60 kA per mode	
160 kA per phase, 80 kA per mode	
200 kA per phase, 100 kA per mode	
Maximum surge current rating	XX kA per phase, XX kA per mode
Nominal discharge current rating (L-N)	20 kA Earthing and Delta systems 10 kA
Operating frequency	47–63 Hz
Connection method	Pre-wired with 36 inches of #10 AWG conductor
Modes of protection	All modes (L-N, L-G, N-G, L-L)
Fault rating (SCCR)	200 kAIC — no upstream over-current protection device (breaker or fuse) required
Application	ANSI/IEEE C62.41.1 locations A, B and C ideal for distribution panels, branch panels and critical loads

Mechanical		
Installation location		Indoor or outdoor
Mounting method		Dual mounting flanges
Operating environment	-40 °F to 149 °F (-40 °C to +65 °C)	5%–95% non-condensing humidity
Altitude		0–12,000 ft (3.66 km)
Product design		Individual thermally fused MOV technology

EMI/RFI filter attenuation	
Mil Standard 220B	Up to 40 dB from 10 kHz to 100 MHz

Regulatory	
cULus 1449 4th Edition	VZCA: E316636 Type 1
UL 1283 with filter option	Yes
UL96A compliant	Yes
IEEE C62.41.2, C62.45	Yes
NFPA 70 (NEC), Article 285	Yes
RoHs compliant	Yes
Listed by	UL

Warranty	10 years

OVRHTP series
OVRHTP (240 to 400 kA)



Product features

- UL Listed 1449 4th edition for Type 1 and Type 2
- SPD applications
- Thermally protected MOVs provide superior protection and continuous operation
- 200 kAIC short circuit current rating allows direct bus connection without the need for an upstream over-current protection device
- UL 1283 EMI/RF filter available as an option
- Compact and lightweight design
- 10-year standard warranty

c UL US LISTED

RoHS Compliant

kA rating — Configuration — Monitoring

O V R H T P 2 4 0 2 2 0 3 Y M U E 4

Model — Voltage — Enclosure — Filter

kA rating	Suffix
240 kA per phase, 120 kA per mode	240
300 kA per phase, 150 kA per mode	300
400 kA per phase, 200 kA per mode	400

Enclosure option	Suffix
Fiberglass-reinforced polyester with termination lugs	PL
Powder-coated metal NEMA 4 with termination lugs	4L
Stainless steel NEMA 4X with termination lug	SL

Voltage and configuration (must choose one)	Suffix
120 V, 1-phase, 2-wire + ground	1201P
127 V, 1-phase, 2-wire + ground	1271P
220 V, 1-phase, 2-wire + ground	2201P
230 V, 1-phase, 2-wire + ground	2301P
240 V, 1-phase, 2-wire + ground	2401P
277 V, 1-phase, 2-wire + ground	2771P
240/120 V, 2-phase, 3-wire + ground	1202S
480/240 V, 2-phase, 3-wire + ground	2402S
240Δ /120 V, 3-phase high-leg , 4-wire + ground	1203H
208Y/120 V, 3-phase Wye, 4-wire + ground	1203Y
380Y/220 V, 3-phase Wye, 4-wire + ground	2203Y
400Y/230 V, 3-phase Wye, 4-wire + ground	2303Y
415Y/240 V, 3-phase Wye, 4-wire + ground	2403Y
480Y/277 V, 3-phase Wye, 4-wire + ground	2773Y
600Y/347 V, 3-phase Wye, 4-wire + ground	3473Y
208 V, 3-phase Delta, 3-wire + ground	2083D
240 V, 3-phase Delta, 3-wire + ground	2403D
415 V, 3-phase Delta, 3-wire + ground	4153D
480 V, 3-phase Delta, 3-wire + ground	4803D
600 V, 3-phase Delta, 3-wire + ground	6003D

Monitoring option (must choose one)	Suffix
Status indicator LED lights (one per phase)	B
Status indicator LED lights (one per phase), dry relay contacts, audible alarm with silence button, fault light	U
Status indicator LED lights (one per phase), surge counter, dry relay contacts, audible alarm with silence button, fault light	UE

Filter option	Suffix
4 UF filter	4
UL 1283 filter making device a Type 2	T2
No filter	0

Product specifications

Electrical	
240 kA per phase, 120 kA per mode	
300 kA per phase, 150 kA per mode	
400 kA per phase, 200 kA per mode	
Maximum surge current rating	XX kA per phase, XX kA per mode
Nominal discharge current rating (L-N)	20 kA Earthing and Delta systems 10 kA
Operating frequency	47–63 Hz
Connection method	Termination lugs for #10–#4 AWG conductor (PL, ML or SL enclosure suffix)
Modes of protection	All modes (L-N, L-G, N-G, L-L)
Fault rating (SCCR)	200 kAIC — no upstream over-current protection device (breaker or fuse) required
Application	ANSI/IEEE C62.41.1 locations A, B and C ideal for distribution panels, branch panels and critical loads

Mechanical		
Installation location		Indoor or outdoor
Mounting method		Dual mounting flanges
Operating environment	-40 °F to 149 °F (-40 °C to +65 °C)	5%–95% non-condensing humidity
Altitude		0–12,000 ft (3.66 km)
Product design		Individual thermally fused MOV technology

EMI/RFI filter attenuation	
Mil Standard 220B	Up to 40 dB from 10 kHz to 100 MHz

Regulatory	
cULus 1449 4th Edition	VZCA: E316636 Type 1
UL 1283 with filter option	Yes
UL96A compliant	Yes
IEEE C62.41.2, C62.45	Yes
NFPA 70 (NEC), Article 285	Yes
RoHs compliant	Yes
Listed by	UL

Warranty	10 years

Protection and safety

OVRHT3B



- Listed to UL 1449 4th Edition for Type 1 SPD applications.
- 50kA per phase protection.
- Individual thermally fused and protected MOVs.
- Includes pre-wired pigtail conductors.
- Multiple MOVs per phase eliminates single point failure.

Technical features

Electrical	
Nominal discharge current rating (I-n)	20 kA (Earthling systems 10 kA)
Operating frequency	47–63 Hz
Connection methods	Parallel to load (shunt) 914.4 mm (36") of 3.31 mm² (#12 AWG) wires
Modes of protection	Model dependent
Fault rating (SCCR)	100 kA IC
Standard monitoring	LED status indicator lights
Mechanical	
Weight	23 kg (5 lbs)
Enclosure type	NEMA 4X, non metallic
Installation location	Indoor/Outdoor
Mounting method	12.7 mm (1/2")–14 NPT thread
Operating environment	-35 to +80 °C (-31 to +176 °F)
Altitude	Up to 5000 m (16,400 ft.)
Product design	Individual thermally fused and protected MOVs
Regulatory	
UL 1449 4th edition type	Type 1
UL 96A	Yes
IEEE C62.41.1, .2, C62.45	Yes
Listed by	UL

Protection and safety

OVRHT3B



Configuration	kA per phase	Voltage	Order details		Weight 1 piece	Pack unit
			Type code	Order code	kg	pc.
1-phase, 2-wire + ground	50kA	120 V	OVRHT3B501201P	2CJC405120P0000	0.23	1
1-phase, 2-wire + ground	50kA	240 V	OVRHT3B502401P	2CJC405240P0000	0.23	1
1-phase, 2-wire + ground	50kA	277 V	OVRHT3B502771P	2CJC405277P0000	0.23	1
1-phase, 2-wire + ground	50kA	480 V	OVRHT3B504801P	2CJC405480P0000	0.23	1
2-phase, 3-wire + ground	50kA	240/120 V	OVRHT3B501202S	2CJC405120S0000	0.23	1
2-phase, 3-wire + ground	50kA	480/240 V	OVRHT3B502402S	2CJC405240S0000	0.23	1
3-phase High-Leg, 4-wire + ground	50kA	240Δ/120 V	OVRHT3B502403H	2CJC405240H0000	0.23	1
3-phase Wye, 4-wire + ground	50kA	208Y/120 V	OVRHT3B501203Y	2CJC405120Y0000	0.23	1
3-phase Wye, 4-wire + ground	50kA	380Y/220 V	OVRHT3B502203Y	2CJC405220Y0000	0.23	1
3-phase Wye, 4-wire + ground	50kA	400Y/230 V	OVRHT3B502303Y	2CJC405230Y0000	0.23	1
3-phase Wye, 4-wire + ground	50kA	415Y/240 V	OVRHT3B502403Y	2CJC405240Y0000	0.23	1
3-phase Wye, 4-wire + ground	50kA	480Y/277 V	OVRHT3B502773Y	2CJC405277Y0000	0.23	1
3-phase Wye, 4-wire + ground	50kA	600Y/347 V	OVRHT3B503473Y	2CJC405347Y0000	0.23	1
3-phase Delta, 3-wire + ground	50kA	240 V	OVRHT3B502403D	2CJC405240D0000	0.23	1
3-phase Delta, 3-wire + ground	50kA	380 V	OVRHT3B503803D	2CJC405380D0000	0.23	1
3-phase Delta, 3-wire + ground	50kA	400 V	OVRHT3B504003D	2CJC405400D0000	0.23	1
3-phase Delta, 3-wire + ground	50kA	480 V	OVRHT3B504803D	2CJC405480D0000	0.23	1
3-phase Delta, 3-wire + ground	50kA	600 V	OVRHT3B506003D	2CJC405600D0000	0.23	1
Earthing Systems						
1-phase, 2-wire + ground (for TNC earthing systems)	50kA	230V	OVRHT3B502301PI	2CJC405230I0000	0.23	1
1-phase, 2-wire + ground (for TNS earthing systems)	50kA	230V	OVRHT3B502301PJ	2CJC405230J0000	0.23	1
1-phase, 2-wire + ground (for IT earthing systems)	50kA	230V	OVRHT3B502301PK	2CJC405230K0000	0.23	1
1-phase, 2-wire + ground (for TT earthing systems)	50kA	230V	OVRHT3B502301PL	2CJC405230L0000	0.23	1
Warranty						
3-year						

Protection and safety

OVRHT3C



- Listed to UL 1449 4th Edition for Type 1 SPD applications.
- 50kA per phase protection.
- Individual thermally fused and protected MOVs.
- Includes pre-wired pigtail conductors.
- Multiple MOVs per phase eliminates single point failure.

Technical features

Electrical	
Nominal discharge current rating (I-n)	20kA (Earthling systems 10kA)
Operating Frequency	47–63Hz
Connection Methods	Parallel to load 914.4mm (36“) of 3.31mm2 (#12 AWG) wires
Modes of protection	Model dependent
Fault rating (SCCR)	100kAIC
Standard monitoring	LED status indicator lights
Mechanical	
Weight	.23 kg (.5 lbs)
Enclosure type	NEMA 4X, non metallic
Installation location	Indoor/Outdoor
Mounting method	12.7mm (1/2”)–14 NPT thread
Operating environment	-35° to +80°C (-31° to +176°F)
Altitude	Up to 5000 m (16,400 ft.)
Product design	Individual thermally fused and protected MOVs
Regulatory	
UL 1449 4th edition type	Type 1
UL 96A	Yes
IEEE C62.41.1, .2, C62.45	Yes
Listed by	UL

Protection and safety

OVRHT3C

Configuration	kA per phase	Voltage	Order details		Weight 1 piece	Pack unit
			Type code	Order code	kg	pc.
1-phase, 2-wire + ground	50kA	120V	OVRHT3C501201P	2CJC605120P0000	0.23	1
1-phase, 2-wire + ground	50kA	240V	OVRHT3C502401P	2CJC605240P0000	0.23	1
1-phase, 2-wire + ground	50kA	277V	OVRHT3C502771P	2CJC605277P0000	0.23	1
1-phase, 2-wire + ground	50kA	480V	OVRHT3C504801P	2CJC605480P0000	0.23	1
2-phase, 3-wire + ground	50kA	240 V/120 V	OVRHT3C501202S	2CJC605120S0000	0.23	1
2-phase, 3-wire + ground	50kA	480 V/240 V	OVRHT3C502402S	2CJC605240S0000	0.23	1
3-phase High-Leg, 4-wire + ground	50kA	240Δ/120 V	OVRHT3C502403H	2CJC605240H0000	0.23	1
3-phase Wye, 4-wire + ground	50kA	208Y/120 V	OVRHT3C501203Y	2CJC605120Y0000	0.23	1
3-phase Wye, 4-wire + ground	50kA	380Y/220 V	OVRHT3C502203Y	2CJC605220Y0000	0.23	1
3-phase Wye, 4-wire + ground	50kA	400Y/230 V	OVRHT3C502303Y	2CJC605230Y0000	0.23	1
3-phase Wye, 4-wire + ground	50kA	415Y/240 V	OVRHT3C502403Y	2CJC605240Y0000	0.23	1
3-phase Wye, 4-wire + ground	50kA	480Y/277 V	OVRHT3C502773Y	2CJC605277Y0000	0.23	1
3-phase Wye, 4-wire + ground	50kA	600Y/347 V	OVRHT3C503473Y	2CJC605347Y0000	0.23	1
3-phase Delta, 3-wire + ground	50kA	240 V	OVRHT3C502403D	2CJC605240D0000	0.23	1
3-phase Delta, 3-wire + ground	50kA	380 V	OVRHT3C503803D	2CJC605380D0000	0.23	1
3-phase Delta, 3-wire + ground	50kA	400 V	OVRHT3C504003D	2CJC605400D0000	0.23	1
3-phase Delta, 3-wire + ground	50kA	480 V	OVRHT3C504803D	2CJC605480D0000	0.23	1
3-phase Delta, 3-wire + ground	50kA	600 V	OVRHT3C506003D	2CJC605600D0000	0.23	1
Earthing Systems						
1-phase, 2-wire + ground (for TNC earthing systems)	50kA	230 V	OVRHT3C502301PI	2CJC605230I0000	0.23	1
1-phase, 2-wire + ground (for TNS earthing systems)	50kA	230 V	OVRHT3C502301PJ	2CJC605230J0000	0.23	1
1-phase, 2-wire + ground (for IT earthing systems)	50kA	230 V	OVRHT3C502301PK	2CJC605230K0000	0.23	1
1-phase, 2-wire + ground (for TT earthing systems)	50kA	230 V	OVRHT3C502301PL	2CJC605230L0000	0.23	1
Warranty						
3-year						

Protection and safety

OVRHS3U



- Listed to UL 1449 4th Edition for Type 1 and Type 2 SPD applications.
- Individual fusing for each Metal Oxide Varistors (MOVs).
- LED indicates proper functioning of L-N and N-G MOVs.

Technical features

Electrical	
Nominal discharge current rating (I-n)	20kA
Operating frequency	47–63Hz
Connection methods	Parallel to load (shunt) 2 mm² (#14 AWG) wires
Modes of protection	Model dependent
Fault rating (SCCR)	100kAIC
Standard monitoring	LED status indicator lights
Mechanical	
Weight	0.9kg (2 lbs.)
Enclosure type	NEMA 1, non-metallic
Installation location	Indoor
Mounting method	12.7 mm (1/2")–14 NPT thread (Aluminum bracket optional)
Operating environment	-40 to +80 °C (-40 to +176 °F)
Altitude	Up to 5000m (16,400 ft.)
Product design	Individually fused MOVs
Regulatory	
UL 1449 4th edition type	Type 1 and Type 2
UL 1283	Only for model number OVRHS3U802402SR
IEEE C62.41.1, .2, C62.45	Yes
Listed by	UL

Protection and safety

OVRHS3U



Type 1

Configuration	kA per phase	Voltage	Order details		Weight 1 piece	Pack unit
			Type code	Order code	kg	pc.
1-phase, 2-wire + ground	40kA	120 V	OVRHS3U401201P	2CJB504120P0000	9	1
2-phase, 3-wire + ground	40kA	120/240 V	OVRHS3U401202S	2CJB504120S0000	9	1
3-phase Delta, 4-wire + ground	40kA	240 V	OVRHS3U402403D	2CJB504240D0000	9	1
3-phase Wye, 4-wire + ground	40kA	120/208 V	OVRHS3U401203Y	2CJB504120Y0000	9	1
		240 V	OVRHS3U402401P	2CJB504240P0000	9	1
		480 V	OVRHS3U404803D	2CJB504480D0000	9	1
		240Δ/120 V	OVRHS3U401203H	2CJB504120H0000	9	1
		480Y/277 V	OVRHS3U402773Y	2CJB504277Y0000	9	1
		400Y/230 V	OVRHS3U402303Y	2CJB504230Y0000	9	1

Type 2

Configuration	kA per phase	Voltage	Order details		Weight 1 piece	Pack unit
			Type code	Order code	kg	pc.
1-phase, 2-wire + ground	40kA	240V	OVRHS3U402401P	2CJB504240P0000	9	1
2-phase, 3-wire + ground	80kA	120/240V	OVRHS3U801202SR	2CJB508120S0500	9	1
3-phase Delta, 3-wire + ground	40kA	480V	OVRHS3U404803D	2CJB504480D0000	9	1
3-phase High-Leg, 4-wire + ground	40kA	120/240V	OVRHS3U401203H	2CJB504120H0000	9	1
3-phase Wye, 4-wire + ground	40kA	277/480V	OVRHS3U402773Y	2CJB504277Y0000	9	1
3-phase Wye, 4-wire + ground	40kA	230/400V	OVRHS3U402303Y	2CJB504230Y0000	1	1

Available options (Not available on OVRHS3U802402SR unit)	Model number*
1 set of dry relay contacts (all models)	5
1 set of dry relay contacts + mounting bracket (only on OVRHS3U402401P and OVRHS3U402303Y models)	P

Protection and safety

OVRHLD



- Listed by ETL to UL 1449 4th edition for Type 1 SPD applications.
- Multiple Metal Oxide Varistors (MOVs), with individual current fusing and thermal disconnects for each MOV.
- LED indicates proper functioning of L-N MOVs.

Technical features

Electrical	
Nominal discharge current rating (I-n)	10kA
Operating frequency	47–63Hz
Connection methods	Parallel to load (shunt) 457.2 mm (18") 2mm2 (#14 AWG) wires Direct connect or breaker
Modes of protection	L-N, L-G, N-G
Fault rating (SCCR)	65kAIC
Standard monitoring	LED status indicator lights (one per phase)
Mechanical	
Weight	.5 kg (1 lb.)
Enclosure type	NEMA 1, non-metallic
Installation location	Indoor
Mounting method	NPS thread and aluminum bracket
Operating environment	-40° to +80°C (-40° to +176°F)
Altitude	Up to 5000 m (16,400 ft.)
Product design	Individually fused MOVs Overcurrent fusing Thermal fusing
Regulatory	
UL 1449 4th edition type	Type 1
UL 1283	No
IEEE C62.41.1, .2, C62.45	Yes
Listed by	ETL

Configuration	Bbn 8012542	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
xxkA, yyyV, L-N, L-G (1 LED)		OVRHLDxx-yyy-1		5	1
xxkA, yyyV, L1-N, L2-N (2 LEDs)		OVRHLDxx-yyy-2		5	1
xxkA, yyyV, L1-G, L2-G (2 LEDs)		OVRHLDxx-yyy-3		5	1
xxkA, yyyV, L1-G, N-G (1 LED)		OVRHLDxx-yyy-4		5	1
xxkA, yyyV, L-N, L-G (2 LEDs)		OVRHLDxx-yyy-5		5	1
xxkA, yyyV, L-N (1 LED)		OVRHLDxx-yyy-6		5	1
xxkA, yyyV, L-G (1 LED)		OVRHLDxx-yyy-7		5	1
xxkA, yyyV, N-G (0 LED)		OVRHLDxx-yyy-8		5	1
xxkA, yyyV, L1-L2 (1 LED		OVRHLDxx-yyy-9		5	1

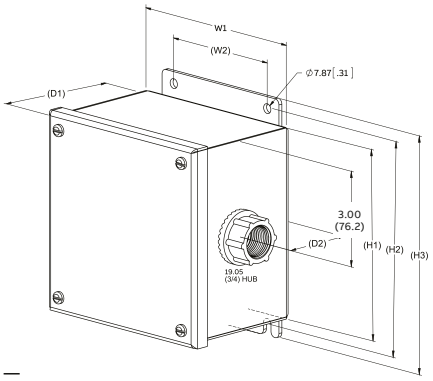
Where "xx" can be 20, 25 or 30 and "yyy" can be 120, 127, 230, or 277

Available option	Model number*
Mounting bracket	6

OVRHTP series

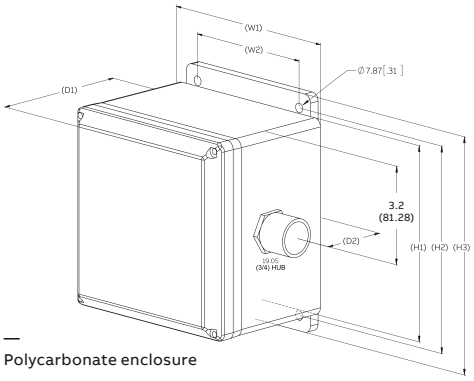
Dimensions

Dimensions OVRHTP (60 to 100 kA)



Metal enclosure

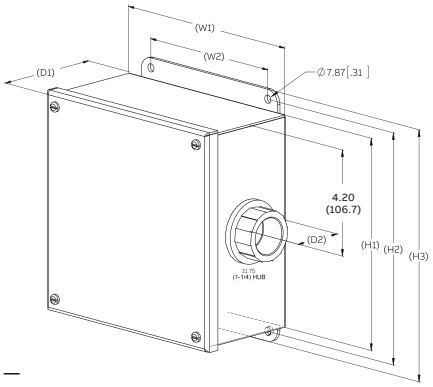
Value	Inches / millimeters
H1	6.00 / 152.4
H2	6.75 / 171.5
H3	7.5 /190.5
W1	6.00 / 152.4
W2	4.00 / 101.6
D1	4.26 / 108.3
D2	2.25 / 57.2



Polycarbonate enclosure

Value	Inches / millimeters
H1	6.42 / 163
H2	6.75 / 171.5
H3	7.75 / 196.9
W1	6.42 / 163
W2	4.50 / 114.3
D1	4.79 / 121.7
D2	2.25 / 57.15

Dimensions OVRHTP (120 to 200 kA)



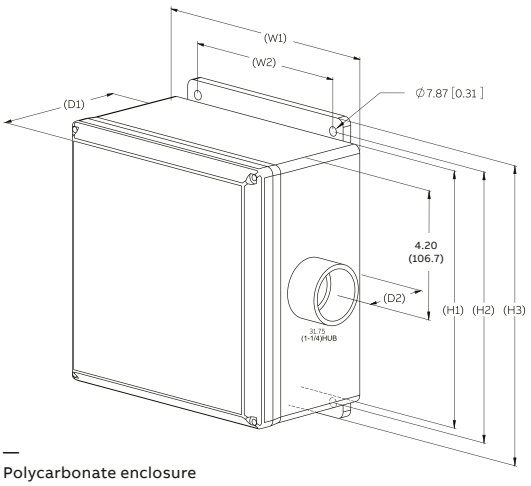
Metal enclosure

Value	Inches / millimeters
H1	8.00 / 203.2
H2	8.75 / 222.3
H3	9.5 / 241.3
W1	8.00 / 203.2
W2	6.00 / 152.4
D1	4.26 / 108.3
D2	2.00 / 50.8

OVRHTP series

Dimensions

Dimensions OVRHTP (120 to 200 kA)

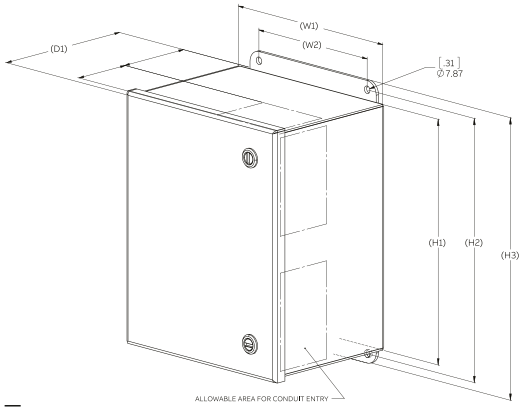


Polycarbonate enclosure

Value	Inches / millimeters
H1	8.42 / 213.9
H2	8.84 / 224.4
H3	9.78 / 248.3
W1	8.42 / 213.9
W2	6.00 / 152.4
D1	4.79 / 121.7
D2	2.25 / 57.2

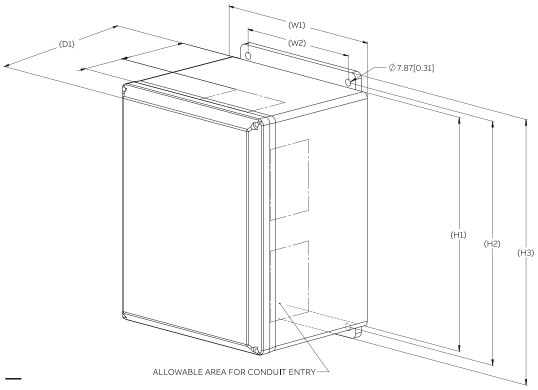
OVRHTP series
Dimensions

Dimensions OVRHTP (240 to 400 kA)



Metal enclosure

H1	10.00 / 254
H2	10.75 / 273.1
H3	11.5 / 292.1
W1	8.00 / 203.2
W2	6.00 / 152.4
D	6.26 / 159.1



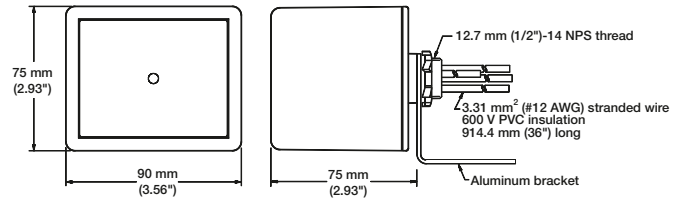
Polycarbonate enclosure

H1	10.35 / 291.9
H2	10.75 / 273.1
H3	11.69 / 296.9
W1	8.35 /212.1
W2	6.00 / 152.4
D	6.79 / 172.5

OVRHT3B and OVRHT3C Series

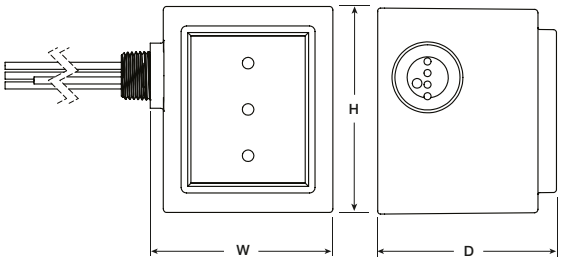
Dimensions

Dimensions OVRHT3B



Value	Inches / millimeters
W	3.36 / 90.0
D	2.93 / 75.0
H	2.93 / 75.0

Dimensions OVRHT3C

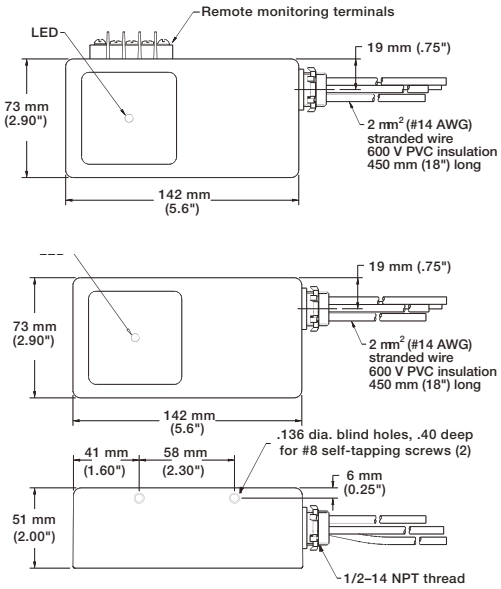


Value	Inches / millimeters
W	3.18 / 80.8
D	3.10 / 78.7
H	3.56 / 90.4

OVRHS3U Series

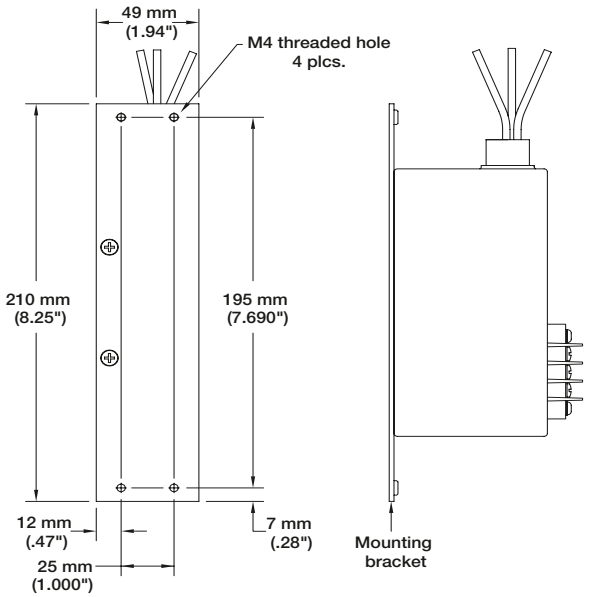
Dimensions

Dimensions OVRHS3U (with and without dry contacts option)



Value	Inches / millimeters
W	2.90 / 73.0
D	2.00 / 51.0
H	5.60 / 142.0

Dimensions mounting bracket OVRHS3U

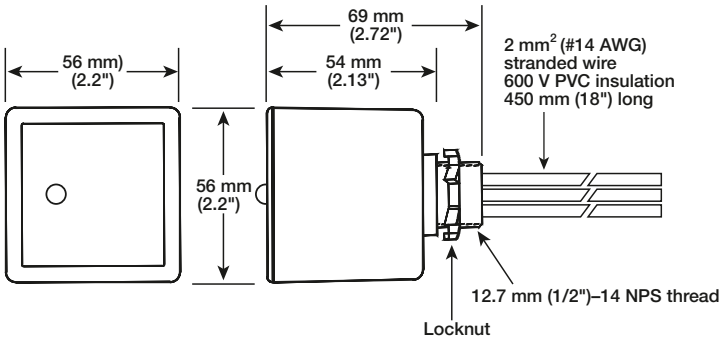


Value	Inches / millimeters
W	1.94 / 49.0
H	8.25 / 210.0

OVRHLD Series

Dimensions

Dimensions OVRHLD



Value	Inches / millimeters
W	2.20 / 56.0
D	2.13 / 54.0 2.72 / 69.0
H	2.20 / 56.0

Notes

Legacy GE

TPME series SPD



Wall-mount SPD with enhanced thermal protection

- UL Listed 1449 4th Edition, Type 1, Type 2
- cUL Listed, CSA C22.2
- UL 96A, for use in lightning protection systems
- Patented thermal fuse technology
- Standard features include a surge counter, audible alarm, indicating lights, dry contacts and NEMA 4 painted steel enclosure
- 10-year limited warranty

Voltage	Configuration	Part number
240/120	1-phase, 3-wire + ground	TPME120Sxxx WMN
208Y/120	3-phase, 4-wire + ground	TPME120Yxxx WMN
380Y/220	3-phase, 4-wire + ground	TPME220Yxxx WMN
240 Delta	3-phase, 3-wire + ground	TPME240Dxxx WMN
240/120 Hi-Leg Delta	3-phase, 4-wire + ground	TPME240Hxxx WMN
415Y/240	3-phase, 4-wire + ground	TPME240Yxxx WMN
480Y/277	3-phase, 4-wire + ground	TPME277Yxxx WMN
600Y/347	3-phase, 4-wire + ground	TPME347Yxxx WMN
480 Delta	3-phase, 3-wire + ground	TPME480Dxxx WMN
Desired kA		**xxx Code**
65 per mode		06
80 per mode		08
100 per mode		10
Options	**Weight**	**Suffix**
Painted steel, NEMA 4 without disconnect*	44 lbs. (20.0 kg)	WMN4S / WMN4ST1**
Stainless steel, NEMA 4X without disconnect	50 lbs. (22.7 kg)	WMN4X / WMN4XT1**
Painted steel, NEMA 1 with disconnect	63 lbs. (28.5 kg)	WMN1 / WMN1T1**
Fiberglass, NEMA 4X with disconnect	56 lbs. (25.4 kg)	WMN4 / WMN4**

* Standard enclosure

Electrical characteristics	
Maximum surge current rating	xxx per phase/ half xxx per mode 130 kA per phase/ 65 kA per mode 160 kA per phase/ 80 kA per mode 200 kA per phase/ 100 kA per mode
Nominal discharge current rating (L-N)	20 kA
Operating frequency	50–60 Hz
Surge life (IEEE C62.41 - C3 10 kA)	≥5,000 impulses
Connection method	#6 to 2/0 AWG conductors, parallel connected
Modes of protection	All modes (L-N, L-G, N-G, L-L)
Fault rating (SCCR)	200 kAIC
Standard monitoring	Status indicator lights (one per phase) and red service light Audible alarm with silencer and test switch Contacts for remote monitoring (2 amp, 125 V AC)–(1 amp, 30 V DC) 6-digit LCD re-settable surge event counter
EMI / RFI filter attenuation	
Maximum attenuation frequency	-50 dB at 100 kHz
Mechanical characteristics	
Weight	Varies and depends on enclosure type
Enclosure type	Varies on option chosen
Installation location	Service entrance equipment, primary distribution equipment
Mounting method	Surface mount, 4-point mounting brackets
Operating temperature	-40 °F to 149 °F (-40 °C to 65 °C)
Altitude	0–12,000 ft. (3.66 km)
Product design	Individually fused thermally protected MOV technology
Regulations and certifications	
UL 1449 4th edition	VZCA: E320456 Type 1 / Type 2
cUL, CSA C22.2	VZCA7: E320456 Type 2 / Type 2
UL 1283	FOKY: E320456 Type 2
UL 96A	Yes
IEEE C62.62, C62.72, C62.41	Yes
Listed by	UL

Legacy GE

TPHE series SPD



Wall-mount SPD with enhanced thermal protection

- UL Listed 1449 4th Edition, Type 1, Type 2
- cUL Listed, CSA C22.2
- UL 96A, for use in lightning protection systems
- Thermally protected MOV design eliminates the need for additional upstream over-current protection
- Standard features include a surge counter, audible alarm, indicating lights, dry contacts and NEMA 4 painted steel enclosure
- 10-year limited warranty

Voltage	Configuration	Part number
240/120	1-phase, 3-wire + ground	TPHE120Sxxx**WMN**
208Y/120	3-phase, 4-wire + ground	TPHE120Yxxx**WMN**
380Y/220	3-phase, 4-wire + ground	TPHE220Yxxx**WMN**
240 Delta	3-phase, 3-wire + ground	TPHE240Dxxx**WMN**
240/120 Hi-Leg Delta	3-phase, 4-wire + ground	TPHE240Hxxx**WMN**
415Y/240	3-phase, 4-wire + ground	TPHE240Yxxx**WMN**
480Y/277	3-phase, 4-wire + ground	TPHE277Yxxx**WMN**
600Y/347	3-phase, 4-wire + ground	TPHE347Yxxx**WMN**
480 Delta	3-phase, 3-wire + ground	TPHE480Dxxx**WMN**
Desired kA		**xxx Code**
125 per mode		12
150 per mode		15
200 per mode		20
250 per mode		25
300 per mode		30
Options	**Weight**	**Suffix**
Painted steel, NEMA 4 without disconnect*	44 lbs. (20.0 kg)	WMN4S / WMN4ST1**
Stainless steel, NEMA 4X without disconnect	50 lbs. (22.7 kg)	WMN4X / WMN4XT1**
Painted steel, NEMA 1 with disconnect	63 lbs. (28.5 kg)	WMN1 / WMN1T1**
Fiberglass, NEMA 4X with disconnect	56 lbs. (25.4 kg)	WMN4 / WMN4**

* Standard enclosure

Electrical characteristics	
Maximum surge current rating	250 kA per phase/ 125 kA per mode 300 kA per phase/ 150 kA per mode 400 kA per phase/ 200 kA per mode 500 kA per phase/ 250 kA per mode 600 kA per phase/ 300 kA per mode
Nominal discharge current rating (L-N)	20 kA
Operating frequency	50–60 Hz
Surge life (IEEE C62.41 - C3 10 kA)	≥20,000 impulses
Connection method	#6 to 2/0 AWG conductors, parallel connected
Modes of protection	All modes (L-N, L-G, N-G, L-L)
Fault rating (SCCR)	200 kAIC
Standard monitoring	Status indicator lights (one per phase) and red service light Audible alarm with silencer and test switch Contacts for remote monitoring (2 amp, 125 V AC)–(1 amp, 30 V DC) 6-digit LCD re-settable surge event counter
EMI / RFI filter attenuation	
Maximum attenuation frequency	-50 dB at 100 kHz
Mechanical characteristics	
Weight	Varies and depends on enclosure type
Enclosure type	Varies on option chosen
Installation location	Service entrance equipment, primary distribution equipment
Mounting method	Surface mount, 4-point mounting brackets
Operating temperature	-40 °F to 149 F (-40 °C to 65 °C)
Altitude	0–12,000 ft. (3.66 km)
Product design	Individually fused thermally protected MOV technology
Regulations and certifications	
UL 1449 4th edition	VZCA: E320456 Type 1 / Type 2
cUL, CSA C22.2	VZCA7: E320456 Type 2 / Type 2
UL 1283	FOKY: E320456 Type 2
UL 96A	Yes
IEEE C62.62, C62.72, C62.41	Yes
Listed by	UL

Legacy GE

TME series SPD



Wall-mount SPD

- UL Listed 1449 4th Edition, Type 2
- cUL Listed, CSA C22.2
- UL 96A, for use in lightning protection systems
- UL Recognized 200 kAIC surge-rated fuses in combination with patented thermal fuse technology
- Standard features include a surge counter, audible alarm, indicating lights, dry contacts and NEMA 4 painted steel enclosure
- 10-year limited warranty

Voltage	Configuration	Part number
240/120	1-phase, 3-wire + ground	TME120Sxxx WMN
208Y/120	3-phase, 4-wire + ground	TME120Yxxx WMN
380Y/220	3-phase, 4-wire + ground	TME220Yxxx WMN
240 Delta	3-phase, 3-wire + ground	TME240Dxxx WMN
240/120 Hi-Leg Delta	3-phase, 4-wire + ground	TME240Hxxx WMN
415Y/240	3-phase, 4-wire + ground	TME240Yxxx WMN
480Y/277	3-phase, 4-wire + ground	TME277Yxxx WMN
600Y/347	3-phase, 4-wire + ground	TME347Yxxx WMN
480 Delta	3-phase, 3-wire + ground	TME480Dxxx WMN
Desired kA		**xxx Code**
65 per mode		065
80 per mode		080
100 per mode		100
Option		**Suffix**
Painted steel, NEMA 4*		4S
Stainless steel, NEMA 4X		4X

* Standard enclosure

Electrical characteristics	
Maximum surge current rating	xxx per phase/ half xxx per mode 130 kA per phase/ 65 kA per mode 160 kA per phase/ 80 kA per mode 200 kA per phase/ 100 kA per mode
Nominal discharge current rating (L-N)	20 kA
Operating frequency	50–60 Hz
Surge life (IEEE C62.41 - C3 10 kA)	≥5,000 impulses
Connection method	#6 to 2/0 AWG conductors, parallel connected
Modes of protection	All modes (L-N, L-G, N-G, L-L)
Fault rating (SCCR)	65 kA (30 A breaker required)
Standard monitoring	Status indicator lights (one per phase) and red service light Audible alarm with silencer and test switch Contacts for remote monitoring (2 amp, 125 V AC)–(1 amp, 30 V DC) 6-digit LCD re-settable surge event counter
EMI / RFI filter attenuation	
Maximum attenuation frequency	-44 dB at 50–100 kHz
Mechanical characteristics	
Weight	32 lbs. (14.51 kg)
Enclosure type	Varies on option chosen
Installation location	Service entrance equipment, primary distribution equipment – Rated for UL and NEC 2020 Type 2 installation locations
Mounting method	Dual mounting flanges / ¾" NPT offset nipple
Operating temperature	-40 °F to 149 °F (-40 °C to 65 °C)
Altitude	0–12,000 ft. (3.66 km)
Product design	Thermal fuse technology
Regulations and certifications	
UL 1449 4th edition	VZCA: E320456 Type 2
cUL, CSA C22.2	VZCA7: E320456 Type 2
UL 1283	FOKY: E320456 Type 2
UL 96A	Yes
IEEE C62.62, C62.72	Yes
Listed by	UL

Legacy GE

THE series SPD



Wall-mount SPD

- UL Listed 1449 4th Edition, Type 2
- cUL Listed, CSA C22.2
- UL 96A, for use in lightning protection systems
- UL Recognized 200 kAIC surge-rated fuses in combination with patented thermal fuse technology
- Standard features include a surge counter, audible alarm, indicating lights, dry contacts and NEMA 4 painted steel enclosure
- 10-year limited warranty

Voltage	Configuration	Part number
240/120	1-phase, 3-wire + ground	THE120SxxxWMN
208Y/120	3-phase, 4-wire + ground	THE120YxxxWMN
380Y/220	3-phase, 4-wire + ground	THE220YxxxWMN
240 Delta	3-phase, 3-wire + ground	THE240DxxxWMN
240/120 Hi-Leg Delta	3-phase, 4-wire + ground	THE240HxxxWMN
415Y/240	3-phase, 4-wire + ground	THE240YxxxWMN
480Y/277	3-phase, 4-wire + ground	THE277YxxxWMN
600Y/347	3-phase, 4-wire + ground	THE347YxxxWMN
480 Delta	3-phase, 3-wire + ground	THE480DxxxWMN
600 Delta	3-phase, 3-wire + ground	THE600DxxxWMN
600 Delta is offered in version on prior page		

Desired kA	xxx Code
125 per mode	125
150 per mode	150
200 per mode	200
250 per mode	250
300 per mode	300

Option	Suffix
Painted steel, NEMA 4*	4S
Stainless steel, NEMA 4X	4X

* Standard enclosure

Electrical characteristics	
Maximum surge current rating	xxx per phase/ half xxx per mode 250 kA per phase/ 125 kA per mode 300 kA per phase/ 150 kA per mode 400 kA per phase/ 200 kA per mode 500 kA per phase/ 250 kA per mode 600 kA per phase/ 300 kA per mode
Nominal discharge current rating (L-N)	20 kA
Operating frequency	50–60 Hz
Surge life (IEEE C62.41 - C3 10 kA)	≥20,000 impulses
Connection method	#6 to 2/0 AWG conductors, parallel connected
Modes of protection	All modes (L-N, L-G, N-G, L-L)
Fault rating (SCCR)	200 kAIC (60 A breaker required as a local disconnect means)
Standard monitoring	Status indicator lights (one per phase) and red service light Audible alarm with silencer and test switch Contacts for remote monitoring (2 amp, 125 V AC)–(1 amp, 30 V DC) 6-digit LCD re-settable surge event counter
EMI / RFI filter attenuation	
Maximum attenuation frequency	-44 dB at 50–100 kHz
Mechanical characteristics	
Weight	50 lbs. (22.68 kg)
Enclosure type	Varies on option chosen
Installation location	Service entrance equipment, primary distribution equipment – Rated for UL and NEC 2020 Type 2 installation locations
Mounting method	Dual mounting flanges / ¾" NPT offset nipple
Operating temperature	-40 °F to 149 °F (-40 °C to 65 °C)
Altitude	0–12,000 ft. (3.66 km)
Product design	Thermal fuse technology
Regulations and certifications	
UL 1449 4th edition	VZCA: E320456 Type 2
cUL, CSA C22.2	VZCA7: E320456 Type 2
UL 1283	Yes
UL 96A	Yes
IEEE C62.62, C62.72	Yes
Listed by	UL

Legacy GE

TLE series SPD



Wall-mount SPD

- UL Listed 1449 4th Edition, Type 2
- cUL Listed, CSA C22.2
- Compact and economical design for use at medium-exposure distribution or branch panels
- Patented thermal fuse technology
- Standard features include status indicating LEDs, form C dry contacts for remote monitoring and NEMA 12 painted steel enclosure
- 10-year limited warranty

Voltage	Configuration	Part number
240/120	1-phase, 3-wire + ground	TLE120Sxxx WM
208Y/120	3-phase, 4-wire + ground	TLE120Yxxx WM
380Y/220	3-phase, 4-wire + ground	TLE220Yxxx WM
240 Delta	3-phase, 3-wire + ground	TLE240Dxxx WM
240/120 Hi-Leg Delta	3-phase, 4-wire + ground	TLE240Hxxx WM
415Y/240	3-phase, 4-wire + ground	TLE240Yxxx WM
480Y/277	3-phase, 4-wire + ground	TLE277Yxxx WM
480 Delta	3-phase, 3-wire + ground	TLE480Dxxx WM
600 Delta is offered in version on prior page		

Desired kA	xxx Code
25 per mode	025
50 per mode	050

Electrical characteristics	
Maximum surge current rating	xxx per phase/ half xxx per mode 50 kA per phase/ 25 kA per mode 100 kA per phase/ 50 kA per mode
Nominal discharge current rating (L-N)	10 kA
Operating frequency	50–60 Hz
Surge life (IEEE C62.41 - C3 10 kA)	≥3,500 impulses
Connection method	#10 AWG conductors, parallel connected
Modes of protection	All modes (L-N, L-G, N-G, L-L)
Fault rating (SCCR)	65 kA (30 A breaker required)
Standard monitoring	Status indicator lights (one per phase) Standard dry (form C) relay contacts
Mechanical characteristics	
Weight	17 lbs. (7.7 kg)
Enclosure type	Painted steel, NEMA 12
Installation location	Secondary distribution equipment, branch panels – Rated for UL and NEC 2020 Type 2 installation locations
Mounting method	Dual mounting flanges / ¾" NPT offset nipple
Operating temperature	-40 °F to 149 °F (-40 °C to 65 °C)
Altitude	0–12,000 ft. (3.66 km)
Product design	Thermal fuse technology
Regulations and certifications	
UL 1449 4th edition	VZCA: E320456 Type 2
cUL, CSA C22.2	VZCA7: E320456 Type 2
IEEE C62.62, C62.72	Yes
Listed by	UL

Legacy GE

TME series SPD



Wall-mount SPD

- UL Listed 1449 4th Edition, Type 2
- cUL Listed, CSA C22.2
- UL 96A, for use in lightning protection systems
- Compact and economical design for use at medium-exposure distribution or branch panels
- Standard features include status indicating LEDs, form C dry contacts for remote monitoring and NEMA 12 painted steel enclosure
- 10-year limited warranty

Voltage	Configuration	Part number
240/120	1-phase, 3-wire + ground	TME120Sxxx WM
208Y/120	3-phase, 4-wire + ground	TME120Yxxx WM
380Y/220	3-phase, 4-wire + ground	TME220Yxxx WM
240 Delta	3-phase, 3-wire + ground	TME240Dxxx WM
240/120 Hi-Leg Delta	3-phase, 4-wire + ground	TME240Hxxx WM
415Y/240	3-phase, 4-wire + ground	TME240Yxxx WM
480Y/277	3-phase, 4-wire + ground	TME277Yxxx WM
480 Delta	3-phase, 3-wire + ground	TME480Dxxx WM
Desired kA		**xxx Code**
65 per mode		065
80 per mode		080
100 per mode		100

Electrical characteristics	
Maximum surge current rating	xxx per phase/ half xxx per mode 130 kA per phase/ 65 kA per mode 160 kA per phase/ 80 kA per mode 200 kA per phase/ 100 kA per mode
Nominal discharge current rating (L-N)	20 kA
Operating frequency	50–60 Hz
Surge life (IEEE C62.41 - C3 10 kA)	≥5,000 impulses
Connection method	#10 AWG conductors, parallel connected
Modes of protection	All modes (L-N, L-G, N-G, L-L)
Fault rating (SCCR)	65 kA (30 A breaker required)
Standard monitoring	Status indicator lights (one per phase) Standard dry (form C) relay contacts
EMI / RFI filter attenuation	
Maximum attenuation frequency	-44 dB at 50 kHz–100 MHz
Mechanical characteristics	
Weight	17 lbs. (7.7 kg)
Enclosure type	Painted steel, NEMA 12
Installation location	Service entrance equipment, primary distribution equipment – Rated for UL and NEC 2020 Type 2 installation locations
Mounting method	Dual mounting flanges / ¾" NPT offset nipple
Operating temperature	-40 °F to 149 °F (-40 °C to 65 °C)
Altitude	0–12,000 ft. (3.66 km)
Product design	Thermal fuse technology
Regulations and certifications	
UL 1449 4th edition	VZCA: E320456 Type 2
cUL, CSA C22.2	VZCA7: E320456 Type 2
UL 1283	FOKY: E320456 Type 2
UL 96A	Yes
IEEE C62.62, C62.72	Yes
Listed by	UL

Legacy GE

TPME series integrated SPD



Designed to connect within ReliaGear™ panelboards

- UL Listed 1449 4th Edition, Type 1, Type 2
- cUL, CSA C22.2
- Factory installed in GE® A Series™ panels
- Connects directly to the A Series panelboard bus bars
- Standard features include a surge counter, audible alarm, indicating lights, dry contacts and NEMA 4 painted steel enclosure
- 10-year limited warranty

Voltage	Configuration	Part number
240/120	1-phase, 3-wire + ground	TPME120Sxx*
208Y/120	3-phase, 4-wire + ground	TPME120Yxx*
240 Delta	3-phase, 3-wire + ground	TPME240Dxx*
240/120 Hi-Leg Delta	3-phase, 4-wire + ground	TPME240Hxx*
415Y/240	3-phase, 4-wire + ground	TPME240Yxx*
480Y/277	3-phase, 4-wire + ground	TPME277Yxx*
380Y/220	3-phase, 4-wire + ground	TPME220Yxx*
600Y/347	3-phase, 4-wire + ground	TPME347Yxx*
480 Delta	3-phase, 3-wire + ground	TPME480Dxx*
Desired kA		**xx Code**
65 per mode		06
80 per mode		08
100 per mode		10
Options (*)		**Suffix (*)**
With UL 1283 noise filter and surge counter *		AS
Without UL 1283 noise filtering only (available in 100 kA per mode only)		ASNF
Without UL 1283 noise filter and surge counter (available in 100 kA per mode only)		ASNC

AST1
Full featured with UL 1283 noise filtering and surge counter for UL Type 1 locations

* Standard option

Electrical characteristics	
Maximum surge current rating	xxx per phase/ half xxx per mode mode 130 kA per phase/ 65 kA per mode 160 kA per phase/ 80 kA per mode 200 kA per phase/ 100 kA per mode
Nominal discharge current rating (L-N)	20 kA
Operating frequency	50–60 Hz
Surge life (IEEE C62.41 - C3 10 kA)	≥5,000 impulses
Connection method	#6 to 2/0 AWG conductors, parallel connected
Modes of protection	All modes (L-N, L-G, N-G, L-L)
Fault rating (SCCR)	200 kAIC
Standard monitoring	Status indicator lights (one per phase) and red service light Audible alarm with silencer and test switch Contacts for remote monitoring (2 amp, 125 V AC)–(1 amp, 30 V DC) 6-digit LCD re-settable surge event counter
EMI / RFI filter attenuation	
Maximum attenuation frequency	-50 dB at 100 kHz
Mechanical characteristics	
Weight	13 lbs. (5.9 kg)
Enclosure type	Painted steel, NEMA 12
Installation location	Service entrance equipment, primary distribution equipment, secondary distribution equipment, lighting panels – Rated for UL and NEC 2008 Type 1 and Type 2 installation locations
Mounting method	Bolts onto electrical panel interior frame
Operating temperature	-40 °F to 149 °F (-40 °C to 65 °C)
Altitude	0–12,000 ft. (3.66 km)
Product design	Individually fused thermally protected MOV technology
Regulations and certifications	
UL 1449 4th edition	VZCA2: E320456 Type 1 / Type 2
cUL, CSA C22.2	VZCA8: E320456 Type 1 / Type 2
UL 1283	FOKY2: E320456 Type 2
UL 96A	Yes
IEEE C62.62, C62.72, C62.41	Yes
Listed by	UL

Legacy GE

TPHE series integrated SPD



Designed for ABB distribution equipment

- UL Listed 1449 4th Edition, Type 1, Type 2
- cUL, CSA C22.2
- Connect to the panelboard or switchboard bus bars
- Thermally protected MOV design eliminates the need for additional upstream over-current protection
- Standard features include a surge counter, audible alarm, indicating lights, dry contacts and NEMA 4 painted steel enclosure
- 10-year limited warranty

Voltage	Configuration	Part number
240/120	1-phase, 3-wire + ground	TPHE120Sxx*
208Y/120	3-phase, 4-wire + ground	TPHE120Yxx*
380Y/220	3-phase, 4-wire + ground	TPHE220Yxx*
240 Delta	3-phase, 3-wire + ground	TPHE240Dxx*
240/120 Hi-Leg Delta	3-phase, 4-wire + ground	TPHE240Hxx*
415Y/240	3-phase, 4-wire + ground	TPHE240Yxx*
480Y/277	3-phase, 4-wire + ground	TPHE277Yxx*
600Y/347	3-phase, 4-wire + ground	TPHE347Yxx*
480 Delta	3-phase, 3-wire + ground	TPHE480Dxx*
Desired kA		**xx Code**
65 per mode		06
80 per mode		08
100 per mode		10

Options	Mounting	UL Type	Suffix (*)
ABB Spectra power panels	Integral	Type 2	PP
ABB motor control centers	Integral	Type 2	ME
ABB LV switchgear	Integral	Type 2	SG
ABB Spectra power panels	Integral	Type 1	PPT1
ABB motor control centers	Integral	Type 1	MET1
ABB LV switchgear	Integral	Type 1	SGT1

Electrical characteristics	
Maximum surge current rating	xxx per phase/ half xxx per mode 130 kA per phase/ 65 kA per mode 160 kA per phase/ 80 kA per mode 200 kA per phase/ 100 kA per mode
Nominal discharge current rating (L-N)	20 kA
Operating frequency	50–60 Hz
Surge life (IEEE C62.41 - C3 10 kA)	≥5,000 impulses
Connection method	#6 to 2/0 AWG conductors, parallel connected
Modes of protection	All modes (L-N, L-G, N-G, L-L)
Fault rating (SCCR)	200 kAIC
Standard monitoring	Status indicator lights (one per phase) and red service light Audible alarm with silencer and test switch Contacts for remote monitoring (2 amp, 125 V AC)–(1 amp, 30 V DC) 6-digit LCD re-settable surge event counter
EMI / RFI filter attenuation	
Maximum attenuation frequency	-50 dB at 100 kHz
Mechanical characteristics	
Weight	24 lbs. (10.89 kg)
Installation location	Service entrance equipment, primary distribution equipment – Rated for UL and NEC 2008 Type 1 and Type 2 installation locations
Mounting method	Bolts onto electrical panel interior frame
Operating temperature	-40 °F to 149 °F (-40 °C to 65 °C)
Altitude	0–12,000 ft. (3.66 km)
Product design	Individually fused thermally protected MOV technology
Regulations and certifications	
UL 1449 4th edition	VZCA2: E320456 Type 1 / Type 2
cUL, CSA C22.2	VZCA8: E320456 Type 1 / Type 2
UL 1283	FOKY2: E320456 Type 2
UL 96A	Yes
IEEE C62.62, C62.72, C62.41	Yes
Listed by	UL

Legacy GE

TPME series integrated SPD



Designed for ABB distribution equipment

- UL Listed 1449 4th Edition, Type 2
- cUL, CSA C22.2
- Connect to the panelboard or switchboard bus bars
- Thermally protected MOV design eliminates the need for additional upstream over-current protection
- Standard features include a surge counter, audible alarm, indicating lights, dry contacts and integral surge-rated disconnect
- 10-year limited warranty

Voltage	Configuration	Part number
240/120	1-phase, 3-wire + ground	TPME120Sxx*
208Y/120	3-phase, 4-wire + ground	TPME120Yxx*
380Y/220	3-phase, 4-wire + ground	TPME220Yxx*
240 Delta	3-phase, 3-wire + ground	TPME240Dxx*
240/120 Hi-Leg Delta	3-phase, 4-wire + ground	TPME240Hxx*
415Y/240	3-phase, 4-wire + ground	TPME240Yxx*
480Y/277	3-phase, 4-wire + ground	TPME277Yxx*
600Y/347	3-phase, 4-wire + ground	TPME347Yxx*
480 Delta	3-phase, 3-wire + ground	TPME480Dxx*

Desired kA	xx Code
125 per mode	12
150 per mode	15
200 per mode	20
250 per mode	25
300 per mode	30

Options	Mounting	UL Type	Suffix (*)
ABB Spectra power panels	Integral	Type 2	PP
ABB motor control centers	Integral	Type 2	ME
ABB LV switchgear	Integral	Type 2	SG
ABB Spectra power panels	Integral	Type 1	PPT1
ABB motor control centers	Integral	Type 1	MET1
ABB LV switchgear	Integral	Type 1	SGT1

Electrical characteristics	
Maximum surge current rating	xxx per phase/ half xxx per mode 250 kA per phase/ 125 kA per mode 300 kA per phase/ 150 kA per mode 400 kA per phase/ 200 kA per mode 500 kA per phase/ 250 kA per mode 600 kA per phase/ 300 kA per mode
Nominal discharge current rating (L-N)	20 kA
Operating frequency	50–60 Hz
Surge life (IEEE C62.41 - C3 10 kA)	≥20,000 impulses
Connection method	#6 to 2/0 AWG conductors, parallel connected
Modes of protection	All modes (L-N, L-G, N-G, L-L)
Fault rating (SCCR)	200 kAIC
Standard monitoring	Status indicator lights (one per phase) and red service light Audible alarm with silencer and test switch Contacts for remote monitoring (2 amp, 125 V AC)–(1 amp, 30 V DC) 6-digit LCD re-settable surge event counter
EMI / RFI filter attenuation	
Maximum attenuation frequency	-50 dB at 100 kHz
Mechanical characteristics	
Weight	24 lbs. (10.89 kg)
installation location	Service entrance equipment, primary distribution equipment – Rated for UL and NEC 2020 Type 1 and Type 2 installation locations
Mounting method	Bolts onto electrical panel interior frame
Operating temperature	-40 °F to 149 °F (-40 °C to 65 °C)
Altitude	0–12,000 ft. (3.66 km)
Product design	Individually fused thermally protected MOV technology
Regulations and certifications	
UL 1449 4th edition	VZCA2: E320456 Type 1 / Type 2
UL 1283	VZCA8: E320456 Type 1 / Type 2
cUL, CSA C22.2	FOKY2: E320456 Type 2
UL 96A	Yes
IEEE C62.62, C62.72, C62.41	Yes
Listed by	UL

Legacy GE

9" box extension SPD



Designed for ABB distribution equipment

- UL Listed 1449 4th Edition, Type 2
- cUL, CSA C22.2
- The 9" box extension SPD is field installed and attaches neatly to the top or bottom of a standard panel
- The true maximum surge current rating, unlimited by fusing, has been proven successful in third-party tests
- Standard features include a surge counter, audible alarm, indicating lights and dry contacts
- 10-year limited warranty

Voltage	Configuration	Part number
240/120	1-phase, 3-wire + ground	TPME120SxxBX*
208Y/120	3-phase, 4-wire + ground	TPME120YxxBX*
380Y/220	3-phase, 4-wire + ground	TPME220YxxBX*
240 Delta	3-phase, 3-wire + ground	TPME240DxxBX*
240/120 Hi-Leg Delta	3-phase, 4-wire + ground	TPME240HxxBX*
415Y/240	3-phase, 4-wire + ground	TPME240YxxBX*
480Y/277	3-phase, 4-wire + ground	TPME277YxxBX*
600Y/347	3-phase, 4-wire + ground	TPME347YxxBX*
480 Delta	3-phase, 3-wire + ground	TPME480DxxBX*
Desired kA		**xx Code**
65 per mode		06
80 per mode		08
100 per mode		10
Options		**Suffix (*)**
Surface mounted, no display		9S
Surface mounted, display access		9WS
Flush mounted , no display		9F
Flush mounted, display access		9WF

Electrical characteristics	
Maximum surge current rating	xxx per phase/ half xxx per mode 130 kA per phase/ 65 kA per mode 160 kA per phase/ 80 kA per mode 200 kA per phase/ 100 kA per mode
Nominal discharge current rating (L-N)	20 kA
Operating frequency	50–60 Hz
Connection method	#6 to 2/0 AWG conductors, parallel connected Note: A dedicated circuit breaker, rated 60 A or above, is recommended to provide a local disconnecting means for the SPD.
Modes of protection	All modes (L-N, L-G, N-G, L-L)
Fault rating (SCCR)	65 kAIC
Standard monitoring	Status indicator lights (one per phase) and red service light Audible alarm with silencer and test switch Contacts for remote monitoring (2 amp, 125 V AC)–(1 amp, 30 V DC) 6-digit LCD re-settable surge event counter
EMI / RFI filter attenuation	
Maximum attenuation frequency	-50 dB at 100 kHz
Mechanical characteristics	
Weight	31 lbs. (14.1 kg)
Enclosure type	NEMA 1
Installation location	Service entrance equipment, primary distribution equipment - Rated for UL and NEC 2020 Type 2 installation locations
Mounting method	Either top or bottom of A-Series panelboard only
Operating temperature	-40 °F to 149 °F (-40°C to 65 °C)
Altitude	0–12,000 ft. (3.66 km)
Product design	Individually fused thermally protected MOV technology
Regulations and certifications	
UL 1449 4th edition	XUPD.E248748 Type 2
UL 1283	Yes
UL 96A	Yes
cUL, CSA C22.2	VZCA7: E320456 Type 2
IEEE C62.62, C62.72	Yes
Listed by	UL

Legacy GE

9" box extension SPD



Designed for ABB distribution equipment

- UL Listed 1449 4th Edition, Type 2
- cUL, CSA C22.2
- The 9" box extension SPD is field installed and attaches neatly to the top or bottom of a standard panel
- The true maximum surge current rating, unlimited by fusing, has been proven successful in third-party tests
- Standard features include a surge counter, audible alarm, indicating lights and dry contacts
- 10-year limited warranty

Voltage	Configuration	Part number
240/120	1-phase, 3-wire + ground	TPHE120SxxBX*
208Y/120	3-phase, 4-wire + ground	TPHE120YxxBX*
380Y/220	3-phase, 4-wire + ground	TPHE220YxxBX*
240 Delta	3-phase, 3-wire + ground	TPHE240DxxBX*
240/120 Hi-Leg Delta	3-phase, 4-wire + ground	TPHE240HxxBX*
415Y/240	3-phase, 4-wire + ground	TPHE240YxxBX*
480Y/277	3-phase, 4-wire + ground	TPHE277YxxBX*
600Y/347	3-phase, 4-wire + ground	TPHE347YxxBX*
480 Delta	3-phase, 3-wire + ground	TPHE480DxxBX*
Desired kA		**xx Code**
150 per mode		15
200 per mode		20
300 per mode		30
Options		**Suffix (*)**
Surface mounted, no display		9S
Surface mounted, display access		9WS
Flush mounted , no display		9F
Flush mounted, display access		9WF

Electrical characteristics	
Maximum surge current rating	xxx per phase/ half xxx per mode 300 kA phase/150 kA per mode 400 kA phase/200 kA per mode 600 kA phase/300 kA per mode
Nominal discharge current rating (L-N)	20 kA
Operating frequency	50–60 Hz
Connection method	#6 to 2/0 AWG conductors, parallel connected Note: A dedicated circuit breaker, rated 60 A or above, is recommended to provide a local disconnecting means for the SPD.
Modes of protection	All modes (L-N, L-G, N-G, L-L)
Fault rating (SCCR)	65 kAIC
Standard monitoring	Status indicator lights (one per phase) and red service light Audible alarm with silencer and test switch Contacts for remote monitoring (2 amp, 125 V AC)–(1 amp, 30 V DC) 6-digit LCD re-settable surge event counter
EMI / RFI filter attenuation	
Maximum attenuation frequency	-50 dB at 100 kHz
Mechanical characteristics	
Weight	31 lbs. (14.1 kg)
Enclosure type	NEMA 1
Installation location	Service entrance equipment, primary distribution equipment - Rated for UL and NEC 2020 Type 2 installation locations
Mounting method	Either top or bottom of A-Series panelboard only
Operating temperature	-40 °F to 149 °F (-40°C to 65 °C)
Altitude	0–12,000 ft. (3.66 km)
Product design	Individually fused thermally protected MOV technology
Regulations and certifications	
UL 1449 4th edition	XUPD.E248748 Type 2
UL 1283	Yes
UL 96A	Yes
cUL, CSA C22.2	VZCA7: E320456 Type 2
IEEE C62.62, C62.72	Yes
Listed by	UL

Legacy GE

24" box extension SPD



Designed for ABB distribution equipment

- UL Listed 1449 4th Edition for Type 2 applications
- cUL, CSA C22.2
- This model is installed in an extended box and connects to the panelboard
- The true maximum surge current rating, unlimited by fusing, has been proven successful in third-party tests
- Standard features include a surge counter, audible alarm, indicating lights and dry contacts
- 10-year limited warranty

Voltage	Configuration	Part number
240/120	1-phase, 3-wire + ground	TPME120Sxx BX*
208Y/120	3-phase, 4-wire + ground	TPME120Yxx BX*
380Y/220	3-phase, 4-wire + ground	TPME220Yxx BX*
240 Delta	3-phase, 3-wire + ground	TPME240Dxx BX*
240/120 Hi-Leg Delta	3-phase, 4-wire + ground	TPME240Hxx BX*
415Y/240	3-phase, 4-wire + ground	TPME240Yxx BX*
480Y/277	3-phase, 4-wire + ground	TPME277Yxx BX*
600Y/347	3-phase, 4-wire + ground	TPME347Yxx BX
480 Delta	3-phase, 3-wire + ground	TPME480Dxx BX
Desired kA		**xx Code**
65 per mode		06
80 per mode		08
100 per mode		10
Options		**Suffix (*)**
Surface mounted, display access		24WS
Flush mounted, display access		24WF

Electrical characteristics	
Maximum surge current rating	xxx per phase/ half xxx per mode 130 kA phase/65 kA per mode 160 kA phase/80 kA per mode 200 kA phase/100 kA per mode
Nominal discharge current rating (L-N)	20 kA
Operating frequency	50–60 Hz
Connection method	#6 to 2/0 AWG conductors, parallel connected Note: A dedicated circuit breaker, rated 60 A or above, is recommended to provide a local disconnecting means for the SPD.
Modes of protection	All modes (L-N, L-G, N-G, L-L)
Fault rating (SCCR)	200 kAIC
Standard monitoring	Status indicator lights (one per phase) and red service light Audible alarm with silencer and test switch Contacts for remote monitoring (2 amp, 125 V AC)–(1 amp, 30 V DC) 6-digit LCD re-settable surge event counter
EMI / RFI filter attenuation	
Maximum attenuation frequency	-50 dB at 100 kHz
Mechanical characteristics	
Weight	57 lbs. (25.9 kg)
Enclosure type	NEMA 1
Installation location	Service entrance equipment, primary distribution equipment – Rated for UL and NEC 2020 Type 2 installation locations
Mounting method	Either top or bottom of A-Series panelboard only
Operating temperature	-40 °F to 149 °F (-40 °C to 65 °C)
Altitude	0–12,000 ft. (3.66 km)
Product design	Individually fused thermally protected MOV technology
Regulations and certifications	
UL 1449 4th edition	XUPD.E248748 Type 2
UL 1283	Yes
UL 96A	Yes
cUL, CSA C22.2	VZCA7: E320456 Type 2
IEEE C62.62, C62.72	Yes
Listed by	UL

Legacy GE

24" box extension SPD



Designed for ABB distribution equipment

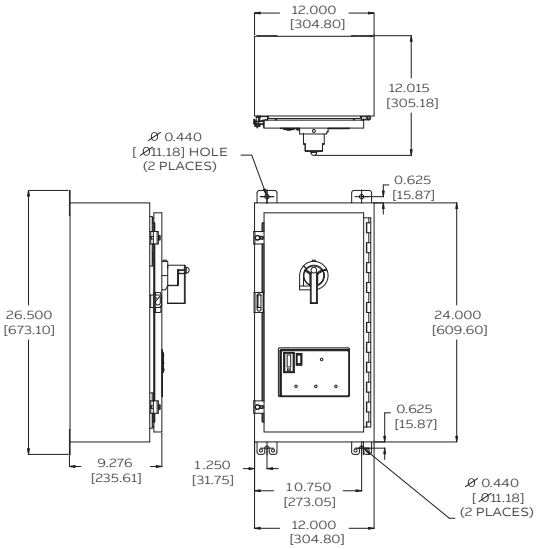
- UL Listed 1449 4th Edition for Type 2 applications
- cUL, CSA C22.2
- This model is installed in an extended box and connects to the panelboard
- The true maximum surge current rating, unlimited by fusing, has been proven successful in third-party tests
- Standard features include a surge counter, audible alarm, indicating lights and dry contacts
- 10-year limited warranty

Voltage	Configuration	Part number
240/120	1-phase, 3-wire + ground	TPHE120SxxBX*
208Y/120	3-phase, 4-wire + ground	TPHE120YxxBX*
380Y/220	3-phase, 4-wire + ground	TPHE220YxxBX*
240 Delta	3-phase, 3-wire + ground	TPHE240DxxBX*
240/120 Hi-Leg Delta	3-phase, 4-wire + ground	TPHE240HxxBX*
415Y/240	3-phase, 4-wire + ground	TPHE240YxxBX*
480Y/277	3-phase, 4-wire + ground	TPHE277YxxBX*
600Y/347	3-phase, 4-wire + ground	TPHE347YxxBX
480 Delta	3-phase, 3-wire + ground	TPHE480DxxBX
Desired kA		**xx Code**
150 per mode		15
200 per mode		20
300 per mode		30
Options		**Suffix (*)**
Surface mounted, display access		24WS
Flush mounted, display access		24WF

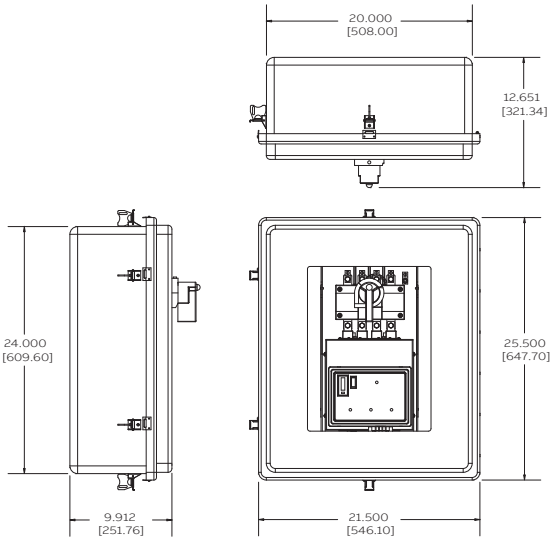
Electrical characteristics	
Maximum surge current rating	xxx per phase/ half xxx per mode 300 kA per phase/ 150 kA per mode 400 kA per phase/ 200 kA per mode 600 kA per phase/ 300 kA per mode
Nominal discharge current rating (L-N)	20 kA
Operating frequency	50–60 Hz
Connection method	#6 to 2/0 AWG conductors, parallel connected Note: A dedicated circuit breaker, rated 60 A or above, is recommended to provide a local disconnecting means for the SPD.
Modes of protection	All modes (L-N, L-G, N-G, L-L)
Fault rating (SCCR)	200 kAIC
Standard monitoring	Status indicator lights (one per phase) and red service light Audible alarm with silencer and test switch Contacts for remote monitoring (2 amp, 125 V AC)–(1 amp, 30 V DC) 6-digit LCD re-settable surge event counter
EMI / RFI filter attenuation	
Maximum attenuation frequency	-50 dB at 100 kHz
Mechanical characteristics	
Weight	57 lbs. (25.9 kg)
Enclosure type	NEMA 1
Installation location	Service entrance equipment, primary distribution equipment – Rated for UL and NEC 2020 Type 2 installation locations
Mounting method	Either top or bottom of A-Series panelboard only
Operating temperature	-40 °F to 149 °F (-40 °C to 65 °C)
Altitude	0–12,000 ft. (3.66 km)
Product design	Individually fused thermally protected MOV technology
Regulations and certifications	
UL 1449 4th edition	XUPD.E248748 Type 2
UL 1283	Yes
UL 96A	Yes
cUL, CSA C22.2	VZCA7: E320456 Type 2
IEEE C62.62, C62.72	Yes
Listed by	UL

Legacy GE product
Dimensions

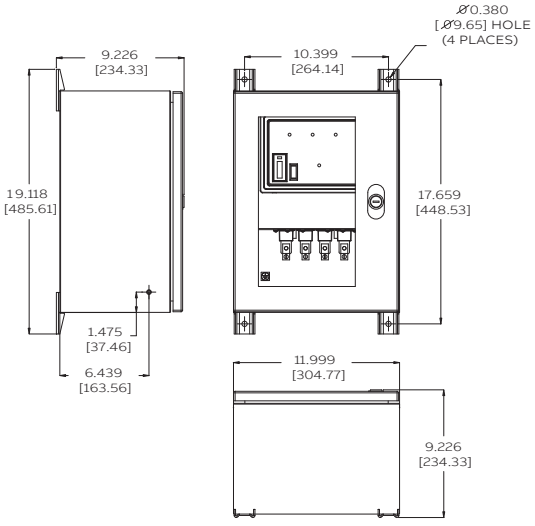
TPME and TPHE series wall-mount SPDs with enhanced thermal protection



WMN1 dimensions



WMN4 dimensions

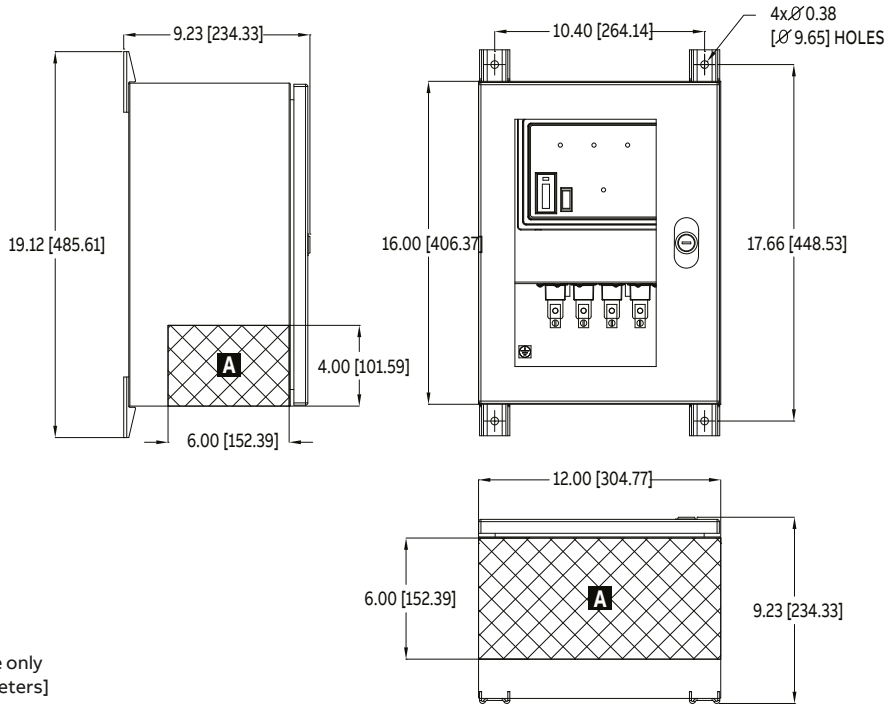


WMN4S, WMN4X dimensions

Legacy GE product
Dimensions

THE and TME series wall-mount SPDs

WMN4S,
WMN4X
Suffix



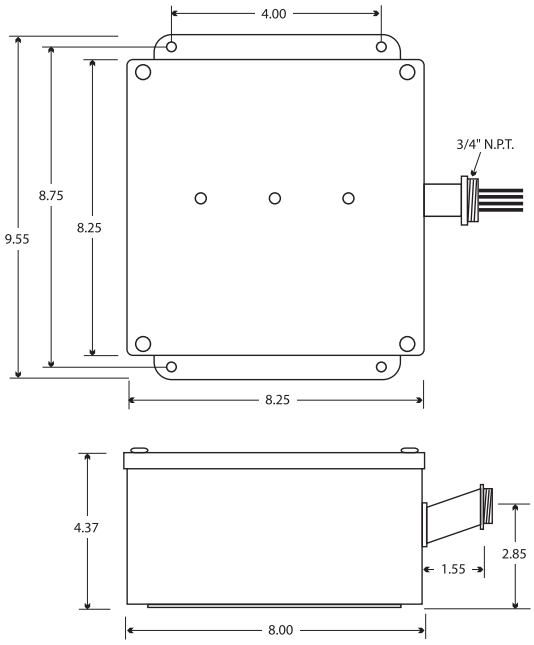
NOTE
All dimensions are for reference only and are shown in Inches [millimeters]

"A" = Recommended conduit entry areas

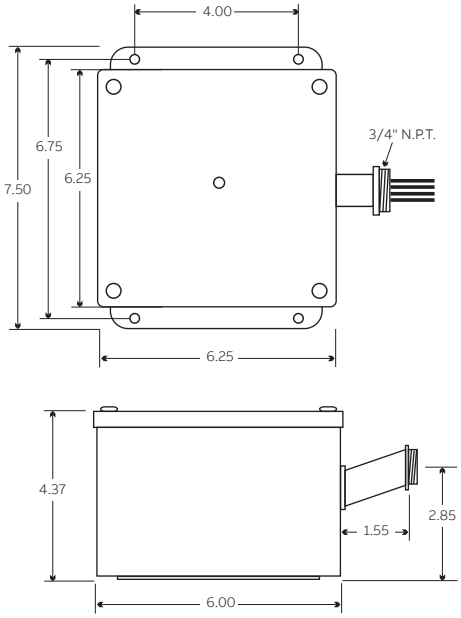
Refer to instruction manual for details

Legacy GE product
Dimensions

TME and TLE series wall-mount SPDs



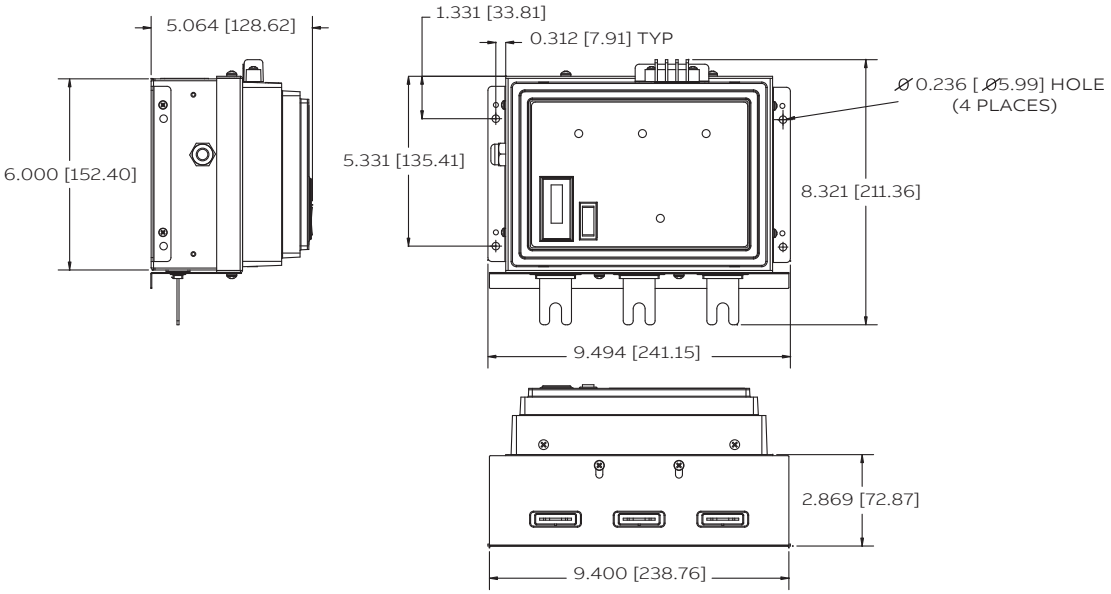
TME



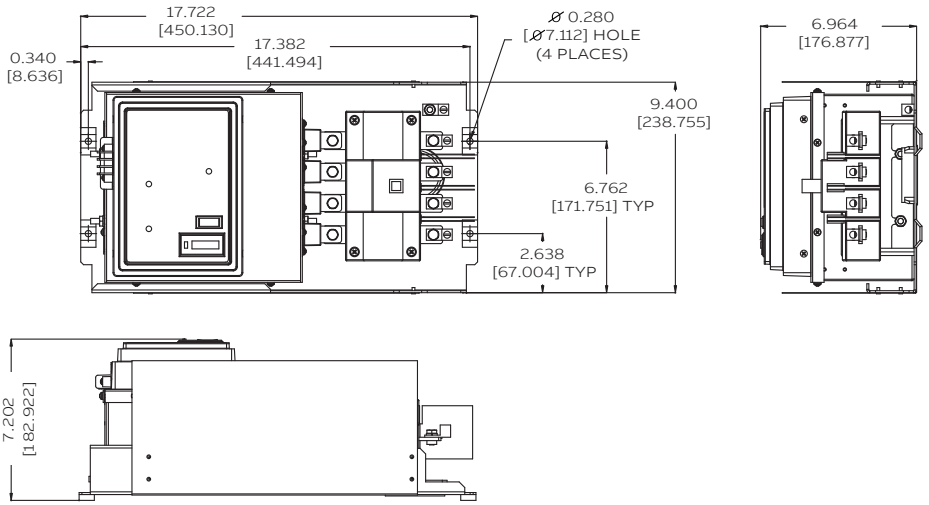
TLE

Legacy GE product
Dimensions

TPME series integrated SPD

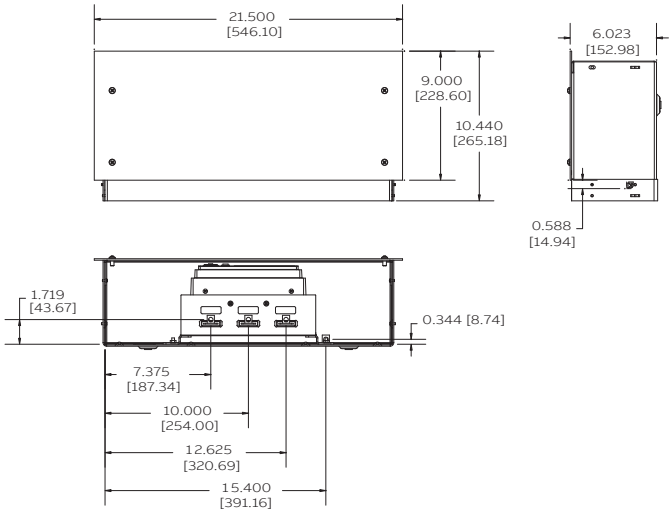


TPME and TPHE series integrated SPDs

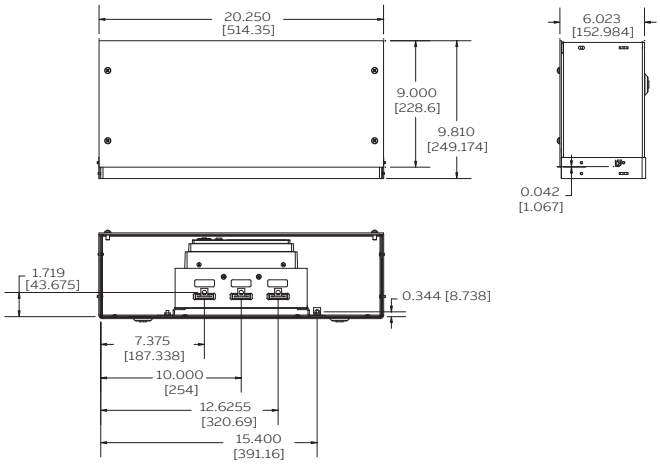


Legacy GE product
Dimensions

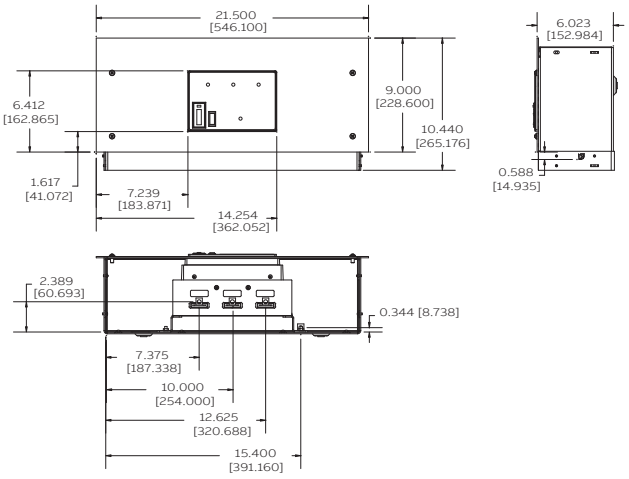
9" box extension SPD



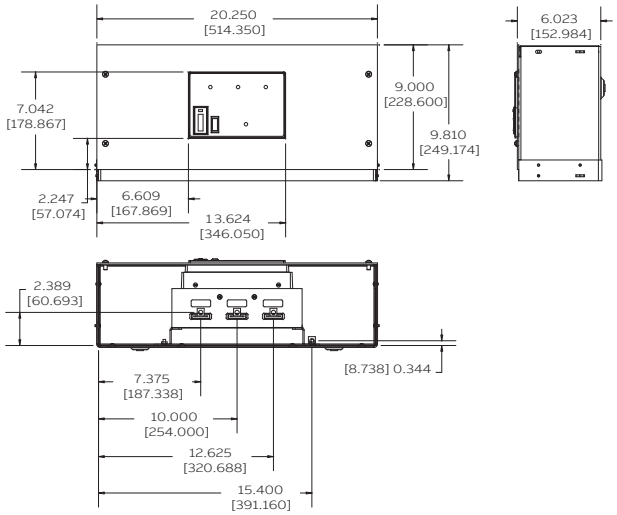
BX9F Dimensions



BX9S Dimensions



BX9WF Dimensions

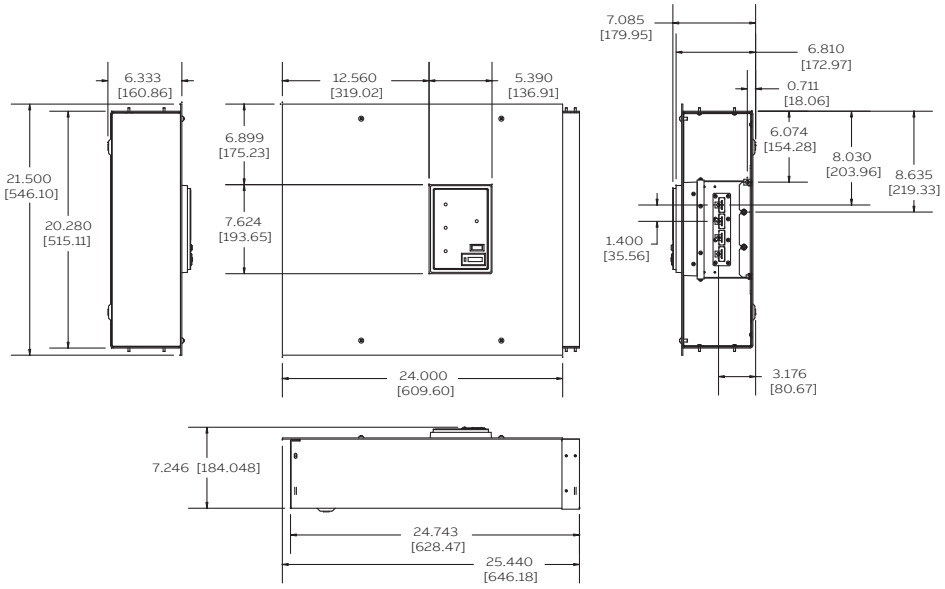


BX9WS Dimensions

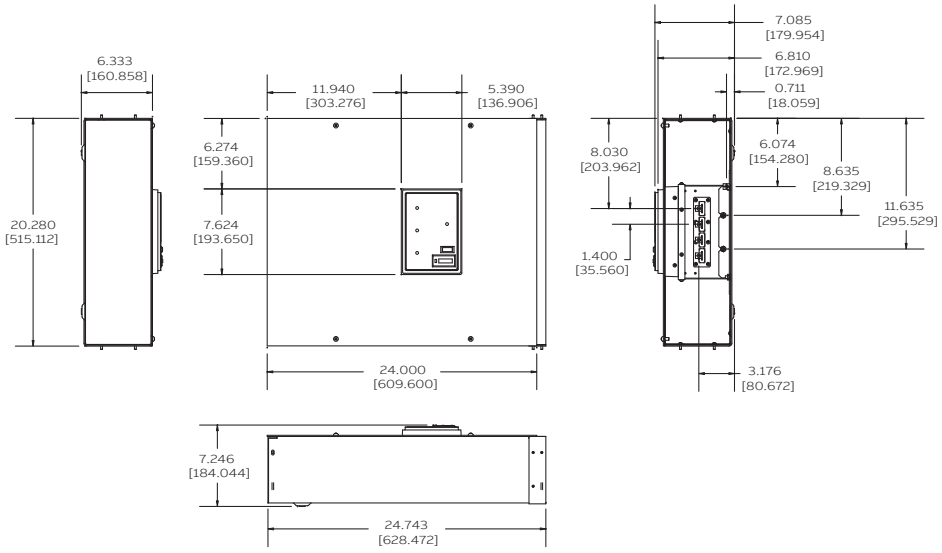
Legacy GE product

Dimensions

24" box extension SPD



BX24WF dimensions



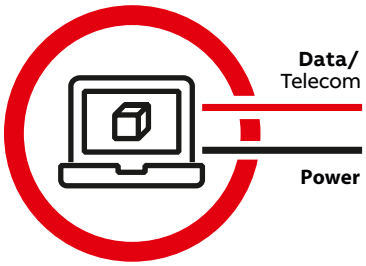
BX24WS dimensions

Notes

The new ABB OVR data and telecom SPD range overview

Protecting critical electronic systems

The new ABB OVR data/telecom range of SPDs are designed to protect equipment connected to data and telephone lines to complement the OVR power SPD products and offer a complete system protection solution (power & data) against surges. The comprehensive range includes protection for twisted pair data lines (including hazardous environments), computer networks, telecom systems including PBX and ISDN, CCTV, TV and RF systems.

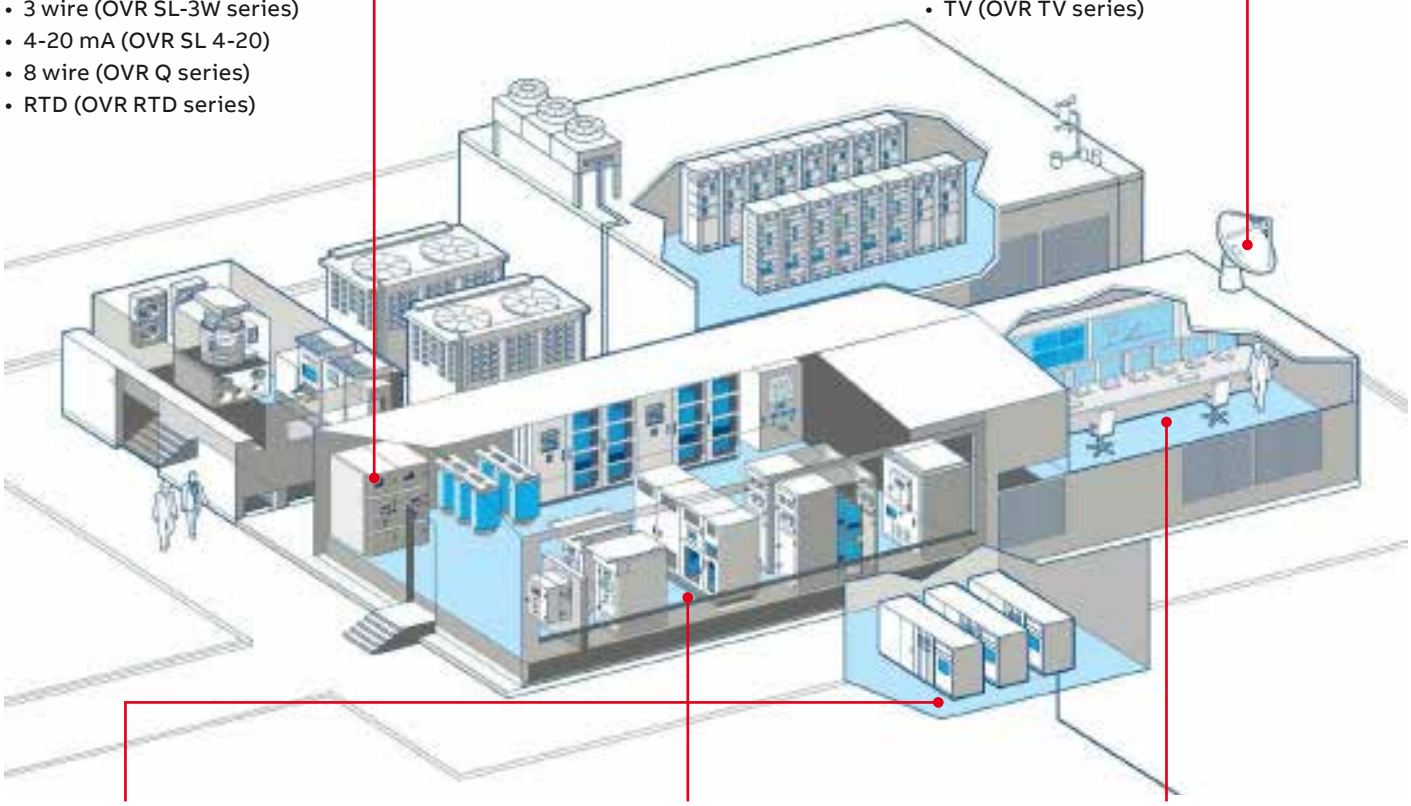


WARNING Equipment is **ONLY** protected if all incoming lines have protection fitted

To protect the electronic equipment inside a building, all cables that enter or leave the building must be protected.
Cables leaving the building can also provide a route back into the building for transients.

Data & measurement systems
- 2 wire (OVR SL series)
- 2 wire ATEX (OVR SLX series)
- 2 wire (OVR D/E/H series)
- 3 wire (OVR SL-3W series)
- 4-20 mA (OVR SL 4-20)
- 8 wire (OVR Q series)
- RTD (OVR RTD series)

Transceiver/CCTV systems
- RF (OVR RF series)
- CCTV (OVR CCTV series with OVR 240-16A)
- TV (OVR TV series)



Mains power supply
- See OVR power SPD series

Telecom systems
- PBX (OVR KT series)
- RJ11 (OVR TN series)
- RJ45 (OVR ISDN series)
- 2 wire (OVR TN, OVR SLTN)
- 8 wire (OVR TNQ)

Information technology systems
- Cat 6 + PoE (OVR Cat-6 series)
- Cat 5e + PoE (OVR Cat-5e series)
- RS485/HART/Profibus (OVR RS485 series)

Protection and safety

Short Selection Guide – Surge Protection Devices OVR

PROFIBUS Systems HART Systems	 OVR RS485 Flat/DIN Mount 7TCA085400R0310	 **OVR SL RS485** Slim DIN Mount 7TCA085400R0310	 **OVR RS485Q** Multiple Lines (DIN Mount) 7TCA085400R0312				
Ethernet	 withPoE:	Cat-5 (100 Mbps) **OVR Cat-5e** 7TCA085400R0289 7TCA085400R0290	Cat-6 (1000 Mbps) **OVR Cat-6e** 7TCA085400R0291 7TCA085400R0292				
Video Surveillance CCTV	 **5V CCTV** with BNC connector, power, and telemetry line	 **OVR CCTV/B** Video signal 7TCA085400R0296	 **OVR RS485** Telemetry signal 7TCA085400R0310	 **OVR 240-16A** Power line 7TCA085460R0361	 **OVR CME4** Earth Bar 7TCA085400R0414	 **OVR WBX4/GS** Enclosure 7TCA085410R0049	CCTV Protection is also available for different voltages and twisted pair connections.
4 - 20 mA current loops	Screw terminals 30 V	 **OVR SL30L/4-20** 7TCA085400R0371					
Coaxial antennas: GSM, UMTS, Radar, Radio, TV, GPS	 Female coaxial connector:	**OVR RF 441421** BNC 7TCA085450R0066	**OVR RF AA1421** 7/16 DIN 7TCA085450R0063	**OVR RF 111421** N 7TCA085450R0065			
Telephone ISDN DSL	 **2 wire Telecom**	Screw terminals:	 **OVR TN** Flat Mount 7TCA085400R0345	 **OVR SL TN** Slim Mount 7TCA085400R0323	 **OVR SL TNL** Slim Mount with LED 7TCA085400R0418	 **OVR TNQ** Multiple Lines 7TCA085400R0344	
	 RJ11, RJ45	RJ11 telephone units	**OVR TN/RJ11-6/6** 6P6C Connector 7TCA085400R0359	RJ45 network units	**OVR ISDN/RJ45-4/8** 8P4C Connector 7TCA085400R0359		
	 PBX Telecom	LSA-PLUS connection	**OVR KT1** Single module 7TCA085400R0305	**OVR K10T1** 10 modules 7TCA085400R0307	**OVR KE10** Earth Bar 7TCA085400R0304		
TV: Satellite, Cable			**OVR CATV/F** Cable 7TCA085400R0293	**OVR SMATV/F** Satellite 7TCA085400R0336	**OVR TV/EURO** Antenna 7TCA085400R0334		
2 wire systems (30V)		 **OVR 30E** Flat Mount 7TCA085400R0353	 **OVR SL30** Slim Mount 7TCA085400R0363	 **OVR 30Q** Multiple Lines 7TCA085400R0341	Protection for different voltages are available		
3 wire systems (30V)		 **OVR SL30/3W** Slim Mount 7TCA085400R0331	Protection for different voltages are available				
Hazardous Areas ATEX/IEC approved		 **OVR SL15X** 15 Volt 7TCA085400R0386	**OVR SL30X** 30 Volt 7TCA085400R0387				
Resistance Temperature Detectors (RTD)		 **OVR RTD** Flat/DIN Mount 7TCA085400R0313	 **OVR SL RTD** Slim (DIN Mount) 7TCA085400R0315	 **OVR RTDQ** Multiple Lines (DIN Mount) 7TCA085400R0314			



WARNING Equipment is **ONLY** protected if all incoming lines have protection fitted

5

Protection and safety

Data & signal protection

OVR SL Series



LPZ 0→3 | FULL MODE Bonding + Equipment Protection | LED OPTIONAL INDICATION | SIGNAL TEST CAT D + C + B | ENHANCED Low let-through voltage | REPLACEABLE PROTECTION MODULE

LOW IN-LINE RESISTANCE 1 Ω | CURRENT RATING 750 mA | HIGH BANDWIDTH | ULTRA SLIM 7 mm WIDTH | GND | GND | UL LISTED

Combined Category D, C, B tested (to IEC/EN 61643) Surge Protection Device (SPD) suitable for twisted pair signalling applications which require either a lower in-line resistance, an increased current and/or higher bandwidth. Also suitable for DC power applications less than 0.75 Amps. Available for working voltages of up to 6, 15, 30, 50, 110 and 180 Volts, and also for global telephone applications up to 296 Volts. For use at boundaries up to LPZ 0 to protect against flashover (typically the service entrance location) through to LPZ 3 to protect sensitive electronic equipment.

Features & benefits

- Very low let-through voltage (enhanced protection to IEC/BS EN 62305) between all lines - Full Mode protection
- Full Mode design capable of handling partial lightning currents as well as allowing continual operation of protected equipment
- Repeated protection in lightning intense environments
- Ultra slim 7 mm width ideal for compact protection of large numbers of lines (e.g. process control installations)
- Optional LED status indication versions available for low current DC power applications - add L suffix to part number - e.g. OVR SL30L
- Two stage removable protection module with simple quick release mechanism allowing partial removal for easy line commissioning and maintenance as well as full removal for protection replacement
- Strong, flame retardant, polymer housing
- High maximum running current
- High bandwidth enables higher frequency (high traffic or bit rate) data communications
- Screen terminal enables easy connection of cable screen to earth
- Suitable for earthed or isolated screen systems - add /I suffix to part number for versions that require isolated screens - e.g. OVR SL30/I
- Built-in innovative DIN rail foot with locking feature for simple positioning and clip-on mounting to top hat DIN rails
- 4 mm2 terminals allow for larger cross section wiring, stranded wires terminated with ferrules or fitting two wires into a single terminal
- Convenient earthing through DIN foot and/or earth terminal
- Very low (1 Ω) in-line resistance allows resistance critical applications (e.g. alarm loops) to be protected
- OVR SL06-SL180 (UL) have UL497B approval under file E506434 (OVR SLTN not included)

Application

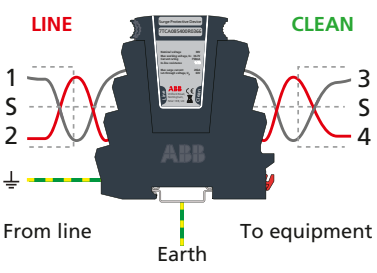
Use these SPDs where installation space is at a premium and large numbers of lines require protection (e.g. process control, high speed digital communication equipment or systems with long signal lines).

Accessories

For replacement SPD modules (/M), spare base units (/B) and weatherproof enclosures (WBX) see ABB order code table overleaf.

Installation

Connect in series with the data communication or signal line either near where it enters or leaves the building or close to the equipment being protected (e.g. within its control panel). Either way, it must be very close to the system's earth star point. Install SPDs either within an existing cabinet/cubicle or in a separate enclosure.



NOTE: The OVR SL 'Slim Line' Series is also available for protection of 3-wire, RS 485 and RTD applications (OVR SL/3W, OVR SL RS485 & OVR SL RTD). The OVR SL X Series has approvals for use in hazardous areas. For telecommunication applications use OVR SLTN Series.

Protection and safety

Data & signal protection

OVR SL Series

OVR SL Series - Technical specification

Electrical specification		OVR SL06	OVR SL15	OVR SL30	OVR SL50	OVR SL110
ABB order code		7TCA085400R0360	7TCA085400R0361	7TCA085400R0363	7TCA085400R0364	7TCA085400R0362
Nominal voltage [1]		6 V	15 V	30 V	50 V	110 V
Maximum working voltage Uc (RMS/DC) [2]		5 V/7.79 V	11 V/16.7 V	25 V/36.7 V	40 V/56.7 V	93 V/132 V
Current rating (signal)		750 mA				
In-line resistance (per line ±10%)		1.0 Ω				
Bandwidth (-3 dB 50 Ω system)		45 MHz	45 MHz	45 MHz	45 MHz	45 MHz
Transient specification		**OVR SL06**	**OVR SL15**	**OVR SL30**	**OVR SL50**	**OVR SL110**
Let-through voltage (all conductors) [3] Up						
C2 test 4 kV 1.2/50 µs, 2 kA 8/20 µs to BS EN/EN/IEC 61643-21		36.0 V	38.4 V	63.0 V	90.3 V	185 V
C1 test 1 kV, 1.2/50 µs, 0.5 kA 8/20 µs to BS EN/EN/IEC 61643-21		26.2 V	29.4 V	51.3 V	77.2 V	175 V
B2 test 4 kV 10/700 µs to BS EN/EN/IEC 61643-21		16.0 V	26.8 V	45.4 V	68.3 V	165 V
5 kV, 10/700 µs [4]		17.0 V	27.5 V	46.3 V	69.1 V	170 V
Maximum surge current						
D1 test 10/350 µs to BS EN/EN/IEC 61643-21	– Per signal wire	1.25 kA				
	– Per pair	2.5 kA				
8/20 µs to ITU-T K.45:2003, IEEE C62.41.2:2002	– Per signal wire	10 kA				
	– Per pair	20 kA				
Mechanical specification		**OVR SL06**	**OVR SL15**	**OVR SL30**	**OVR SL50**	**OVR SL110**
Temperature range		-40 to +80 °C				
Connection type		Screw terminal - maximum torque 0.8 Nm				
Conductor size (stranded)		4 mm²				
Earth connection		Via DIN rail or 4 mm² earth terminal - maximum torque 0.8 Nm				
Case material		FR Polymer UL-94 V-0				
Weight	– Unit	0.08 kg				
	– Packaged (per 10)	0.85 kg				
Dimensions		See diagram below				

[1] Nominal voltage (RMS/DC or AC peak) measured at < 10 µA (OVR SL15, OVR SL30, OVR SL50, OVR SL110 and LED variants) and < 200 µA (OVR SL06 and OVR SL06L)
[2] Maximum working voltage (RMS/DC or AC peak) measured at < 1 mA leakage
[3] The maximum transient voltage let-through of the protector throughout the test (±10%), line to line & line to earth, both polarities. Response time < 10 ns
[4] Test to IEC 61000-4-5:2006, ITU-T (formerly CCITT) K.20, K.21 and K.45, Telcordia GR-1089-CORE, Issue 2:2002, ANSI TIA/EIA/IS-968-A:2002 (formerly FCC Part 68)

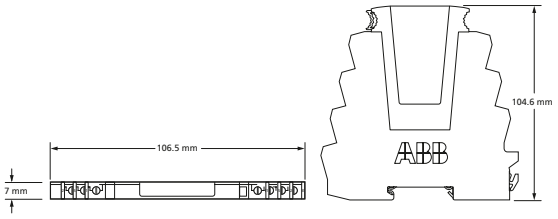


ABB order codes

Part	ABB order code	Part	ABB order code	Part	ABB order code	Part	ABB order code
OVR SL06	7TCA085400R0360	**OVR SL15/M**	7TCA085400R0376	**OVR SL50(UL)**	7TCA085400R0539	**OVR SL180L**	7TCA085400R0425
OVR SL06/I	7TCA085400R0365	**OVR SL15L/M**	7TCA085400R0411	**OVR SL50/I(UL)**	7TCA085400R0540	**OVR SL180**	7TCA085400R0424
OVR SL06L	7TCA085400R0366	**OVR SL15/M(UL)**	7TCA085400R0597	**OVR SL50L(UL)**	7TCA085400R0541	**OVR SL180L/I**	7TCA085400R0423
OVR SL06L/I	7TCA085400R0390	**OVR SL15L/M(UL)**	7TCA085400R0598	**OVR SL50L/I(UL)**	7TCA085400R0542	**OVR SL180/I**	7TCA085400R0426
OVR SL06(UL)	7TCA085400R0527	**OVR SL30**	7TCA085400R0363	**OVR SL50/M**	7TCA085400R0378	**OVR SL180(UL)**	7TCA085400R0547
OVR SL06/I(UL)	7TCA085400R0528	**OVR SL30/I**	7TCA085400R0383	**OVR SL50L/M**	7TCA085400R0401	**OVR SL180/I(UL)**	7TCA085400R0548
OVR SL06L(UL)	7TCA085400R0529	**OVR SL30L**	7TCA085400R0368	**OVR SL50/M(UL)**	7TCA085400R0603	**OVR SL180L(UL)**	7TCA085400R0549
OVR SL06L/I(UL)	7TCA085400R0530	**OVR SL30L/I**	7TCA085400R0393	**OVR SL50L/M(UL)**	7TCA085400R0604	**OVR SL180L/I(UL)**	7TCA085400R0550
OVR SL06/M	7TCA085400R0375	**OVR SL30(UL)**	7TCA085400R0535	**OVR SL110**	7TCA085400R0362	**OVR SL180/M**	7TCA085400R0429
OVR SL06L/M	7TCA085400R0399	**OVR SL30/I(UL)**	7TCA085400R0536	**OVR SL110/I**	7TCA085400R0385	**OVR SL180L/M**	7TCA085400R0430
OVR SL06/M(UL)	7TCA085400R0595	**OVR SL30L(UL)**	7TCA085400R0537	**OVR SL110L**	7TCA085400R0370	**OVR SL180/M(UL)**	7TCA085400R0607
OVR SL06L/M(UL)	7TCA085400R0596	**OVR SL30L/I(UL)**	7TCA085400R0538	**OVR SL110L/I**	7TCA085400R0395	**OVR SL180L/M(UL)**	7TCA085400R0608
OVR SL15	7TCA085400R0361	**OVR SL30/M**	7TCA085400R0377	**OVR SL110(UL)**	7TCA085400R0543	**OVR SL/B**	7TCA085400R0320
OVR SL15/I	7TCA085400R0382	**OVR SL30L/M**	7TCA085400R0400	**OVR SL110/I(UL)**	7TCA085400R0544	**OVR SL/I/B**	7TCA085400R0321
OVR SL15L	7TCA085400R0367	**OVR SL30/M(UL)**	7TCA085400R0601	**OVR SL110L(UL)**	7TCA085400R0545	**OVR SLTN**	7TCA085400R0323
OVR SL15L/I	7TCA085400R0391	**OVR SL30L/M(UL)**	7TCA085400R0602	**OVR SL110L/I(UL)**	7TCA085400R0546	**OVR SLTNL**	7TCA085400R0418
OVR SL15(UL)	7TCA085400R0531	**OVR SL50**	7TCA085400R0364	**OVR SL110/M**	7TCA085400R0379	**OVR WBX SLQ**	7TCA085400R0326
OVR SL15/I(UL)	7TCA085400R0532	**OVR SL50/I**	7TCA085400R0384	**OVR SL110L/M**	7TCA085400R0402	**OVR WBX SLQ/G**	7TCA085400R0327
OVR SL15L(UL)	7TCA085400R0533	**OVR SL50L**	7TCA085400R0369	**OVR SL110/M(UL)**	7TCA085400R0605		
OVR SL15L/I(UL)	7TCA085400R0534	**OVR SL50L/I**	7TCA085400R0394	**OVR SL110L/M(UL)**	7TCA085400R0606		

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Protection and safety

Data & signal protection

OVR SL X Series



LPZ 0→3 | FULL MODE Bonding + Equipment Protection | LED OPTIONAL INDICATION | SIGNAL/ TELECOM TEST CAT D + C + B | ENHANCED Low let-through voltage | REPLACEABLE PROTECTION MODULE | LOW IN-LINE RESISTANCE 1 Ω

CURRENT RATING 750 mA | ATEX/IEC APPROVED | HIGH BANDWIDTH | ULTRA SLIM 7 mm WIDTH | SIL 3 IEC 61508

Combined Category D, C, B tested protector (to BS EN 61643) suitable for twisted pair signalling applications within hazardous environments (ATEX/ IECEx approved). Available for working voltages of up to 15 and 30 Volts. For use at boundaries up to LPZ 0 to protect against flashover through to LPZ 3 to protect sensitive electronic equipment.

Features & benefits

- Approved for use in hazardous environments for the protection of Intrinsically Safe circuits (Classification: II 2(1)G, Ex ia (ia Ga) IIC T4 Gb)
- Very low let-through voltage (enhanced protection to IEC/ BS EN 62305) between all lines - Full Mode protection
- Full Mode design capable of handling partial lightning currents as well as allowing continual operation of protected equipment
- Repeated protection in lightning intense environments
- Ultra slim 7 mm width ideal for compact protection of large numbers of lines (e.g. process control installations)
- Optional LED status indication versions available for low current DC power applications
- Negligible self-capacitance and self-inductance offering minimal interference when protecting Intrinsically Safe circuits
- Very low (1 Ω) in-line resistance allows resistance critical applications (e.g. alarm loops) to be protected
- High (750 mA) maximum running current
- High bandwidth enables higher frequency (high traffic or bit rate) data communications
- Screen terminal enables easy connection of cable screen to earth
- Suitable for earthed or isolated screen systems - add /I suffix to part number for versions that require isolated screens
- Built-in innovative DIN rail foot with locking feature for simple positioning and clip-on mounting to top hat DIN rails
- 4 mm2 terminals allow for larger cross section wiring, stranded wires terminated with ferrules or fitting two wires into a single terminal
- Evaluated for SIL to IEC 61508
- Approval references for OVR SL X Series: IECEx SIR 10.0030X, Sira 10ATEX2063X
- The certificate numbers have an 'X' suffix, which indicates that the certificates contain the following 'Specific conditions of use': The equipment is not capable of passing a 500 V r.m.s. a.c. electric strength test in accordance with Clause 6.3.12 of EN 60069-11:2007 between its intrinsically safe circuits and its DIN rail clip (which is intended to be earthed). This shall be taken into account when this equipment is being installed.
- The equipment enclosure shall only be cleaned using a damp cloth

Application

Use these protectors in hazardous environments where installation space is at a premium and large numbers of lines require protection (e.g. process control, 4-20 mA loops, fire and gas detectors and shut-down systems). Suitable for high speed digital communication equipment or systems with long signal lines. See Application Note OVR AN013.

Installation

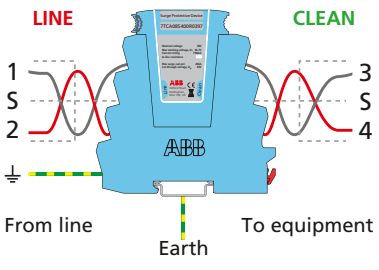
Connect in series with the data communication or signal line either near where it enters or leaves the building or close to the equipment being protected (e.g. within its control panel). Either way, it must be very close to the system's earth star point. Install protectors either within an existing cabinet/cubicle or in a separate enclosure.

Accessories

Replacement modules:
OVR SL15X/M, OVR SL30X/M
Standard module replacement for 15 and 30 V protectors respectively
OVR SL15XL/M, OVR SL30XL/M
LED module replacement for 15 and 30 V protectors respectively
OVR SLX/B Base replacement (common for standard and LED modules)

OVR SLX/I/B
Base replacement with isolated screen from earth

Weatherproof enclosure:
OVR WBX SLQ



NOTE: Use the standard OVR SL 'Slim Line' Series for non-hazardous areas. The OVR SL Series is also available for protection of 3-wire, RS 485, RTD & telecommunication applications (OVR SL/3W, OVR SL RS485, OVR SL RTD & OVR SL TN).

Protection and safety

Data & signal protection

OVR SL X Series

OVR SL X Series - Technical specification

Electrical specification	OVR SL15X	OVR SL30X
ABB order code	7TCA085400R0386	7TCA085400R0387
Nominal voltage[1]	15 V	30 V
Maximum working voltage U_c (DC)[2]	16.7 V	36.7 V
Maximum working voltage U_c (AC RMS)	11 V	25 V
Current rating (signal)	750 mA	
In-line resistance (per line ±10%)	1.0 Ω	
Bandwidth (-3 dB 50 Ω system)	45 MHz	
Intrinsically safe specification	**OVR SL15X**	**OVR SL30X**
Maximum voltage *Ui*	30 V	
Maximum power *Pi*: – Per -40 °C < Ta < 40 °C – Per -40 °C < Ta < 60 °C – Per -40 °C < Ta < 80 °C	1.3 W 1.2 W 1.0 W	
Capacitance *Ci*	0 µF	
Inductance *Li*	0 µH	
Certificate number	IECEx SIR 10.0030X, Sira 10ATEX2063X	
Classification	Ex II 2 (1) G, Ex ia (ia Ga) IIC T4 Gb	
Transient specification	**OVR SL15X**	**OVR SL30X**
Let-through voltage (all conductors)[3] *Up*		
C2 test 4 kV 1.2/50 µs, 2 kA 8/20 µs to BS EN/EN/IEC 61643-21	38.4 V	63.0 V
C1 test 1 kV, 1.2/50 µs, 0.5 kA 8/20 µs to BS EN/EN/IEC 61643-21	29.4 V	51.3 V
B2 test 4 kV 10/700 µs to BS EN/EN/IEC 61643-21	26.8 V	45.4 V
5 kV, 10/700 µs[4]	27.5 V	46.3 V
Maximum surge current		
D1 test 10/350 µs to BS EN/EN/IEC 61643-21: – Per signal wire – Per pair	1.25 kA 2.5 kA	
8/20 µs to ITU-T K.45:2003, IEEE C62.41.2:2002: – Per signal wire – Per pair	5 kA 10 kA	
Mechanical specification	**OVR SL15X**	**OVR SL30X**
Temperature range	-40 to +80 °C	
Connection type	Screw terminal - maximum torque 0.8 Nm	
Conductor size (stranded)	4 mm2	
Earth connection	Via DIN rail or 4 mm2 earth terminal - maximum torque 0.8 Nm	
Case material	FR Polymer UL-94 V-0	
Weight: – Unit	0.08 kg	
SIL (Safety Integrity Level) to IEC 61508	SIL 3[5]	
Dimensions	See diagram below	

[1] Nominal voltage (RMS/DC or AC peak) measured at < 10 µA
[2] Maximum working voltage (RMS/DC or AC peak) measured at < 1 mA leakage
[3] The maximum transient voltage let-through of the protector throughout the test (±10%), line to line & line to earth, both polarities. Response time < 10 ns
[4] Test to IEC 61000-4-5:2006, ITU-T (formerly CCITT) K.20, K.21 and K.45, Telcordia GR-1089-CORE, Issue 2:2002, ANSI TIA/EIA/IS-968-A:2002 (formerly FCC Part 68)

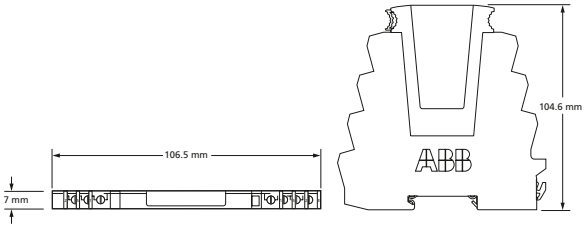


ABB order codes

Part	ABB order code	Part	ABB order code
OVR SL15X	7TCA085400R0386	**OVR SL30X**	7TCA085400R0387
OVR SL15X/I	7TCA085400R0388	**OVR SL30X/I**	7TCA085400R0392
OVR SL15XL	7TCA085400R0396	**OVR SL30XL**	7TCA085400R0397
OVR SL15XL/I	7TCA085400R0389	**OVR SL30XL/I**	7TCA085400R0398
OVR SL15X/M	7TCA085400R0380	**OVR SL30X/M**	7TCA085400R0381
OVR SL15XL/M	7TCA085400R0404	**OVR SL30XL/M**	7TCA085400R0403
OVR SLX/B	7TCA085400R0325	**OVR WBX SLQ**	7TCA085400R0326
OVR SLX/I/B	7TCA085400R0374	**OVR WBX SLQ/G**	7TCA085400R0327

Protection and safety

Data & signal protection

OVR D Series



LPZ 0→3 | FULL MODE Bonding + Equipment Protection | SIGNAL TEST CAT D + C + B | ENHANCED Low let-through voltage | LOW IN-LINE RESISTANCE 9.4 Ω | CURRENT RATING 300 mA

Combined Category D, C, B tested protector (to BS EN 61643) suitable for most twisted pair signalling applications. Available for working voltages of up to 6, 15, 30, 50 and 110 Volts. For use at boundaries up to LPZ 0 to protect against flashover (typically the service entrance location) through to LPZ 3 to protect sensitive electronic equipment.

Features & benefits

- Very low let-through voltage (enhanced protection to IEC/BS EN 62305) between all lines - Full Mode protection
- Full Mode design capable of handling partial lightning currents as well as allowing continual operation of protected equipment
- Repeated protection in lightning intense environments
- Low in-line resistance minimizes unnecessary reductions in signal strength
- Strong, flame retardant, ABS housing
- Supplied ready for flat mounting on base or side
- Built-in DIN rail foot for simple clip-on mounting to top hat DIN rails
- Colour coded terminals give a quick and easy installation check - grey for the dirty (line) end and green for the clean end
- Screen terminal enables easy connection of cable screen to earth
- Substantial earth stud to enable effective earthing
- Integral earthing plate for enhanced connection to earth via a OVR CME kit

Application

Use on twisted pair lines, e.g. those found in process control equipment, modems and computer communications interfaces.

Installation

Connect in series with the data communication or signal line either near where it enters or leaves the building or close to the equipment being protected (e.g. within its control panel). Either way, it must be very close to the system's earth star point. Install protectors either within an existing cabinet/cubicle or in a separate enclosure.

Accessories

Combined Mounting/Earthing kits:

OVR CME 4 Mount & earth up to 4 protectors
OVR CME 8 Mount & earth up to 8 protectors
OVR CME 16 Mount & earth up to 16 protectors
OVR CME 32 Mount & earth up to 32 protectors

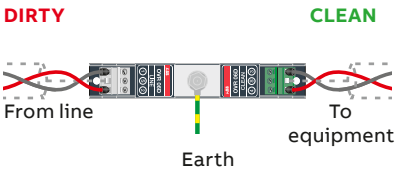
Weatherproof enclosures:

OVR WBX 4, OVR WBX 4/GS For use with a OVR CME 4 and up to 4 protectors

OVR WBX 8, OVR WBX 8/GS
For use with a OVR CME 8 and up to 8 protectors

OVR WBX 16/2/G
For use with one or two OVR CME 16 and up to 32 protectors

Install in series (in-line)



Slim Line (OVR SL) and ATEX (OVR SLX) versions are also available. If your system requires a protector with a very low resistance or higher current, see the OVR E & H Series. Also use the OVR E Series for systems needing a higher bandwidth. Protectors for 3-wire (OVR SL/3W) and RTD (OVR RTD, OVR SL RTD) are available, as are the space saving protectors (OVR Q, OVR SL Series). The OVR KT and TN Series are additional protectors specifically for telephone lines.

Protection and safety

Data & signal protection

OVR D Series

OVR D Series - Technical specification

Electrical specification	OVR 06D	OVR 15D	OVR 30D	OVR 50D	OVR 110D
ABB order code	7TCA085400R0288	7TCA085400R0349	7TCA085400R0351	7TCA085400R0352	7TCA085400R0347
Nominal voltage[1]	6 V	15 V	30 V	50 V	110 V
Maximum working voltage *Uc* (RMS/DC)[2]	5 V / 7.79 V	13 V / 19 V	26 V / 37.1 V	41 V / 58 V	93 V / 132 V
Current rating (signal)	300 mA				
In-line resistance (per line ±10%)	9.4 Ω	9.4 Ω	9.4 Ω	9.4 Ω	9.4 Ω
Bandwidth (-3 dB 50 Ω system)	800 kHz	2.5 MHz	4 MHz	6 MHz	9 MHz
Transient specification	**OVR 06D**	**OVR 15D**	**OVR 30D**	**OVR 50D**	**OVR 110D**
Let-through voltage (all conductors)[3] *Up*					
C2 test 4 kV 1.2/50 µs, 2 kA 8/20 µs to BS EN/EN/IEC 61643-21	12.0 V	25.0 V	44.0 V	78.0 V	155 V
C1 test 1 kV, 1.2/50 µs, 0.5 kA 8/20 µs to BS EN/EN/IEC 61643-21	11.5 V	24.5 V	43.5 V	76.0 V	150 V
B2 test 4 kV 10/700 µs to BS EN/EN/IEC 61643-21	10.0 V	23.0 V	42.5 V	73.0 V	145 V
5 kV, 10/700 µs[4]	10.5 V	23.8 V	43.4 V	74.9 V	150 V
Maximum surge current					
D1 test 10/350 µs to BS EN/EN/IEC 61643-21: – Per signal wire	2.5 kA				
D1 test 10/350 µs to BS EN/EN/IEC 61643-21: – Per pair	5 kA				
8/20 µs to ITU-T K.45:2003, IEEE C62.41.2:2002: – Per signal wire	10 kA				
8/20 µs to ITU-T K.45:2003, IEEE C62.41.2:2002: – Per pair	20 kA				
Mechanical specification	**OVR 06D**	**OVR 15D**	**OVR 30D**	**OVR 50D**	**OVR 110D**
Temperature range	-40 to +80 °C				
Connection type	Screw terminal - maximum torque 0.5 Nm				
Conductor size (stranded)	2.5 mm²				
Earth connection	M6 stud				
Case material	FR Polymer UL-94 V-0				
Weight	0.08 kg				
Dimensions	See diagram below				

[1] Nominal voltage (RMS/DC or AC peak) measured at < 5 µA (OVR 15D, OVR 30D, OVR 50D, OVR 110D) and < 200 µA (OVR 06D)
[2] Maximum working voltage (RMS/DC or AC peak) measured at < 1 mA leakage (OVR 15D, OVR 30D, OVR 50D, OVR 110D), < 10 mA (OVR 06D)
[3] The maximum transient voltage let-through of the protector throughout the test (±10%), line to line & line to earth, both polarities. Response time < 10 ns
[4] Test to IEC 61000-4-5:2006, ITU-T (formerly CCITT) K.20, K.21 and K.45, Telcordia GR-1089-CORE, Issue 2:2002, ANSI TIA/EIA/IS-968-A:2002 (formerly FCC Part 68)

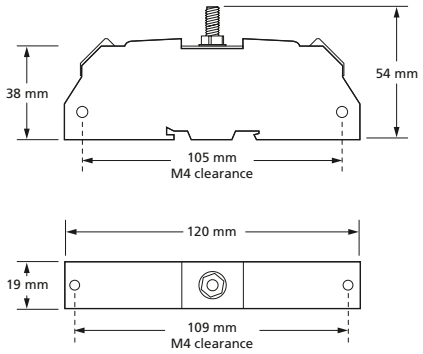


ABB order codes

Part	ABB order code	Part	ABB order code	Part	ABB order code
OVR CME4	7TCA085400R0414	**OVR WBX4**	7TCA085410R0048	**OVR WBX4/GS**	7TCA085410R0049
OVR CME8	7TCA085400R0415	**OVR WBX8**	7TCA085410R0050	**OVR WBX8/GS**	7TCA085410R0051
OVR CME16	7TCA085410R0415	**OVR CME32**	7TCA085410R0046	**OVR WBX16/2/G**	7TCA085410R0047

Protection and safety

Data & signal protection

OVR E Series



LPZ 0→3 | FULL MODE Bonding + Equipment Protection | HIGH BANDWIDTH | SIGNAL/ TELECOM TEST CAT D + C + B | ENHANCED Low let-through voltage | LOW IN-LINE RESISTANCE 1 Ω | CURRENT RATING 1.25 A | GND

Combined Category D, C, B tested protector (to BS EN 61643) suitable for twisted pair signalling applications which require either a lower in-line resistance, an increased current or a higher bandwidth than the OVR D Series. Also suitable for DC power applications less than 1.25 Amps. Available for working voltages of up to 6, 15, 30, 50 and 110 Volts. For use at boundaries up to LPZ 0 to protect against flashover (typically the service entrance location) through to LPZ 3 to protect sensitive electronic equipment.

Features & benefits

- Very low let-through voltage (enhanced protection to IEC/BS EN 62305) between all lines - Full Mode protection
- Full Mode design capable of handling partial lightning currents as well as allowing continual operation of protected equipment
- Repeated protection in lightning intense environments
- Very low (1 Ω) in-line resistance allows resistance critical applications (e.g. alarm loops) to be protected
- High (1.25 A) maximum running current
- High bandwidth enables higher frequency (high traffic or bit rate) data communications
- Screen terminal enables easy connection of cable screen to earth
- Strong, flame retardant, ABS housing
- Built-in DIN rail foot for simple clip-on mounting to top hat DIN rails
- Colour coded terminals give a quick and easy installation check - grey for the dirty (line) end and green for clean
- Substantial earth stud to enable effective earthing
- Supplied ready for flat mounting on base or side
- Integral earthing plate for enhanced connection to earth via OVR CME kit

Application

Use these units to protect resistance sensitive, higher frequency or running current systems, e.g. high speed digital communications equipment or systems with long signal lines.

Installation

Connect in series with the data communication or signal line either near where it enters or leaves the building or close to the equipment being protected (e.g. within its control panel). Either way, it must be very close to the system's earth star point. Install protectors either within an existing cabinet/cubicle or in a separate enclosure.

Accessories

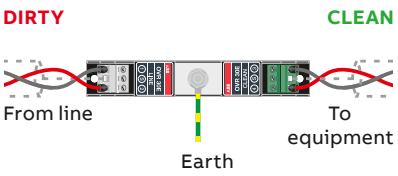
Combined Mounting/Earthing kits:

OVR CME 4 Mount & earth up to 4 protectors
OVR CME 8 Mount & earth up to 8 protectors
OVR CME 16 Mount & earth up to 16 protectors
OVR CME 32 Mount & earth up to 32 protectors

Weatherproof enclosures:

OVR WBX 4, OVR WBX 4/GS
For use with a OVR CME 4 and up to 4 protectors
OVR WBX 8, OVR WBX 8/GS
For use with a OVR CME 8 and up to 8 protectors
OVR WBX 16/2/G
For use with one or two OVR CME 16 and up to 32 protectors

Install in series (in-line)



NOTE: Slim Line (OVR SL) and ATEX (OVR SLX) are available. For many twisted pair data and signal applications, the lower cost OVR D Series may be suitable. For applications requiring higher current (1.25 A to 4 A) or ultra-low in-line resistance, the OVR H Series protectors may be more suitable.

Protection and safety

Data & signal protection

OVR E Series

OVR E Series - Technical specification

Electrical specification	OVR 06E	OVR 15E	OVR 30E	OVR 50E	OVR 110E
ABB order code	7TCA085400R0346	7TCA085400R0350	7TCA085400R0353	7TCA085400R0354	7TCA085400R0348
Nominal voltage[1]	6 V	15 V	30 V	50 V	110 V
Maximum working voltage *Uc* (RMS/DC)[2]	5 V / 7.79 V	11 V / 16.7 V	25 V / 36.7 V	40 V / 56.7 V	93 V / 132 V
Current rating (signal)	1.25 A				
In-line resistance (per line ±10%)	1.0 Ω				
Bandwidth (-3 dB 50 Ω system)	45 MHz				
Transient specification	**OVR 06E**	**OVR 15E**	**OVR 30E**	**OVR 50E**	**OVR 110E**
Let-through voltage (all conductors)[3] *Up*					
C2 test 4 kV 1.2/50 µs, 2 kA 8/20 µs to BS EN/EN/IEC 61643-21	36.0 V	39.0 V	60.0 V	86.0 V	180 V
C1 test 1 kV, 1.2/50 µs, 0.5 kA 8/20 µs to BS EN/EN/IEC 61643-21	26.2 V	28.0 V	49.0 V	73.5 V	170 V
B2 test 4 kV 10/700 µs to BS EN/EN/IEC 61643-21	16.0 V	25.5 V	43.5 V	65.0 V	160 V
5 kV, 10/700 µs[4]	17.0 V	26.2 V	44.3 V	65.8 V	165 V
Maximum surge current					
D1 test 10/350 µs to BS EN/EN/IEC 61643-21: – Per signal wire – Per pair	2.5 kA 5 kA				
8/20 µs to ITU-T K.45:2003, IEEE C62.41.2:2002: – Per signal wire – Per pair	10 kA 20 kA				
Mechanical specification	**OVR 06E**	**OVR 15E**	**OVR 30E**	**OVR 50E**	**OVR 110E**
Temperature range	-40 to +80 °C				
Connection type	Screw terminal - maximum torque 0.5 Nm				
Conductor size (stranded)	2.5 mm²				
Earth connection	M6 stud				
Case material	FR Polymer UL-94 V-0				
Weight	0.08 kg				
Dimensions	See diagram below				

[1] Nominal voltage (RMS/DC or AC peak) measured at < 10 µA (OVR 15E, OVR 30E, OVR 50E, OVR 110E) and < 200 µA (OVR 06E)
[2] Maximum working voltage (RMS/DC or AC peak) measured at < 5 mA leakage (OVR 15E, OVR 30E, OVR 50E, OVR 110E) and < 10 mA (OVR 06E)
[3] The maximum transient voltage let-through of the protector throughout the test (±10%), line to line & line to earth, both polarities. Response time < 10 ns
[4] Test to IEC 61000-4-5:2006, ITU-T (formerly CCITT) K.20, K.21 and K.45,Telcordia GR-1089-CORE, Issue 2:2002, ANSI TIA/EIA/IS-968-A:2002 (formerly FCC Part 68)

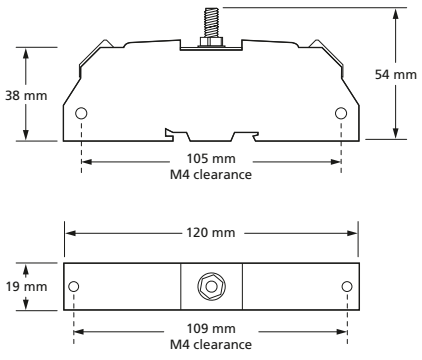


ABB order codes

Part	ABB order code	Part	ABB order code	Part	ABB order code
OVR CME4	7TCA085400R0414	**OVR WBX4**	7TCA085410R0048	**OVR WBX4/GS**	7TCA085410R0049
OVR CME8	7TCA085400R0415	**OVR WBX8**	7TCA085410R0050	**OVR WBX8/GS**	7TCA085410R0051
OVR CME16	7TCA085410R0415	**OVR CME32**	7TCA085410R0046	**OVR WBX16/2/G**	7TCA085410R0047

Protection and safety

Data & signal protection

OVR H Series



LPZ 0→3 | FULL MODE Bonding + Equipment Protection | SIGNAL/ TELECOM TEST CAT D + C + B | ENHANCED Low let-through voltage | LOW IN-LINE RESISTANCE 0.05 Ω | CURRENT RATING 4 A | GND

Combined Category D, C, B tested protector (to BS EN 61643) suitable for twisted pair signalling applications which require either a lower in-line resistance or an increased current than the OVR D or E Series. Also suitable for DC power applications less than 4 Amps. Available for working voltages of up to 6, 15, 30, 50, 110 and 180 Volts. For use at boundaries up to LPZ 0 to protect against flashover (typically the service entrance location) through to LPZ 3 to protect sensitive electronic equipment.

Features & benefits

- Very low let-through voltage (enhanced protection to IEC/BS EN 62305) between all lines - Full Mode protection
- Full Mode design capable of handling partial lightning currents as well as allowing continual operation of protected equipment
- Repeated protection in lightning intense environments
- Ultra-low (< 0.05 Ω) in-line resistance allows resistance critical applications (e.g. alarm loops) to be protected
- Very high (4 A) maximum running current
- Strong, flame retardant ABS housing
- Supplied ready for flat mounting on base or side
- Built-in DIN rail foot for simple clip-on mounting to top hat DIN rails
- Colour coded terminals give a quick and easy installation check - grey for the dirty (line) end and green for clean
- Screen terminal enables easy connection of cable screen to earth
- Substantial earth stud to enable effective earthing
- Integral earth plate enables enhanced connection to earth via OVR CME kit

Application

Use these applications to protect resistance sensitive or higher running current systems, e.g. systems with long signal lines, or DC power applications.

Installation

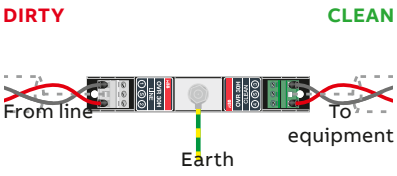
Connect in series with the data communication or signal line either near where it enters or leaves the building or close to the equipment being protected (e.g. within its control panel). Either way, it must be very close to the system's earth star point. Install protectors either within an existing cabinet/cubicle or in a separate enclosure.

Accessories

Combined Mounting/Earthing kits:
OVR CME 4 Mount & earth up to 4 protectors
OVR CME 8 Mount & earth up to 8 protectors
OVR CME 16 Mount & earth up to 16 protectors
OVR CME 32 Mount & earth up to 32 protectors

Weatherproof enclosures:
OVR WBX 4, OVR WBX 4/GS
For use with a OVR CME 4 and up to 4 protectors
OVR WBX 8, OVR WBX 8/GS
For use with a OVR CME 8 and up to 8 protectors
OVR WBX 16/2/G
For use with one or two OVR CME 16 and up to 32 protectors

Install in series (in-line)



NOTE: For some data and signal applications with lower current, higher in-line resistance or higher bandwidth requirements, the OVR D or E Series protectors or the Slim Line OVR SL Series may be more suitable.

Protection and safety

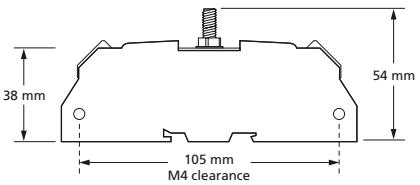
Data & signal protection

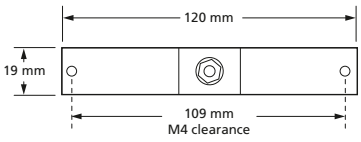
OVR H Series

OVR E Series - Technical specification

	ESP 06H	ESP 15H	ESP 30H	ESP 50H	ESP 110H	ESP 180H
ABB order code	7TCA085400R0003	7TCA085400R0009	7TCA085400R0011	7TCA085400R0012	7TCA085400R0008	7TCA085400R0492
Nominal voltage[1]	6 V	15 V	30 V	50 V	110 V	180 V
Maximum working voltage U_c (DC)[2]	7.79 V	16.7 V	36.7 V	56.7 V	132 V	190 V
Maximum working voltage U_c (AC RMS)	5 V	11 V	25 V	40 V	93 V	130 V
Current rating (signal)	4 A					
In-line resistance (per line ±10%)	0.05 Ω					
Bandwidth (-3 dB 50 Ω system)	160 KHz	140 KHz	130 KHz	120 KHz	120 KHz	100 KHz
Transient specification	**ESP 06H**	**ESP 15H**	**ESP 30H**	**ESP 50H**	**ESP 110H**	**ESP 180H**
Let-through voltage (all conductors)[3] *Up*						
C2 test 4 kV 1.2/50 µs, 2 kA 8/20 µs to BS EN/EN/IEC 61643-21	12.0 V	27.5 V	46.0 V	67.0 V	150 V	215 V
C1 test 1 kV, 1.2/50 µs, 0.5 kA 8/20 µs to BS EN/EN/IEC 61643-21	11.0 V	26.5 V	45.0 V	66.5 V	145 V	205 V
B2 test 4 kV 10/700 µs to BS EN/EN/ IEC 61643-21	10.5 V	25.5 V	43.5 V	65.0 V	140 V	203 V
5 kV, 10/700 µs(4)	10.8 V	26.2 V	44.3 V	65.8 V	145 V	200 V
Maximum surge current						
D1 test 10/350 µs to signal wire – Per	2.5 kA					
BS EN/EN/IEC 61643-21: – Per pair	5 kA					
8/20 µs to ITU-T K.45:2003, signal wire – Per	10 kA					
IEEE C62.41.2:2002: – Per pair	20 kA					
Mechanical specification	**ESP 06H**	**ESP 15H**	**ESP 30H**	**ESP 50H**	**ESP 11H**	**ESP 180H**
Temperature range						-40 to +80 °C
Connection type						Screw terminal - maximum torque 0.5 Nm
Conductor size (stranded)						2.5 mm²
Earth connection						M6 stud - maximum torque 0.5 Nm
Case material						FR Polymer UL-94 V-0
Weight: – Unit						0.08 kg
Dimensions						See diagram below

[1] Nominal voltage (RMS/DC or AC peak) measured at < 10 µA (OVR 15H, OVR 30H, OVR 50H, OVR 110H) and < 200 µA (OVR 06H)
[2] Maximum working voltage (RMS/DC or AC peak) measured at < 5 mA leakage (OVR 15H, OVR 30H, OVR 50H, OVR 110H) and < 10 mA (OVR 06H)
[3] The maximum transient voltage let-through of the protector throughout the test (±10%), line to line & line to earth, both polarities. Response time < 10 ns
[4] Test to IEC 61000-4-5:2006, ITU-T (formerly CCITT) K.20, K.21 and K.45,Telcordia GR-1089-CORE, Issue 2:2002, ANSI TIA/EIA/IS-968-A:2002 (formerly FCC Part 68)





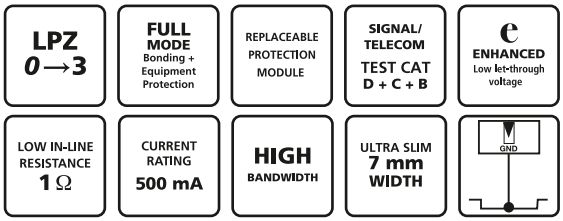
Part	ABB order code
CME4	7TCA085400R0001
CME32	7TCA085410R0003
WBX 3/G	7TCA085410R0024
WBX 8	7TCA085410R0030
CME8	7TCA085400R0002
WBX 2/G	7TCA085410R0022
WBX 4	7TCA085410R0027
WBX 8/GS	7TCA085410R0031
CME16	7TCA085410R0002
WBX 3	7TCA085410R0023
WBX 4/GS	7TCA085410R0028
WBX 16/2/G	7TCA085410R0020

Protection and safety

Data & signal protection

OVR SL 3-Wire Series





Combined Category D, C, B tested protector (to BS EN 61643) suitable for 3-wire signalling applications which require either a lower in-line resistance, an increased current and/or higher bandwidth. Also suitable for DC power applications less than 0.5 Amps. Available for working voltages of up to 6, 15, 30, 50 and 110 Volts. For use at boundaries up to LPZ 0 to protect against flashover (typically the service entrance location) through to LPZ 3 to protect sensitive electronic equipment.

Features & benefits

- Very low let-through voltage (enhanced protection to IEC/BS EN 62305) between all lines - Full Mode protection
- Full Mode design capable of handling partial lightning currents as well as allowing continual operation of protected equipment
- Repeated protection in lightning intense environments
- Ultra slim 7 mm width ideal for compact protection of large numbers of lines (e.g. process control installations)
- Two stage removable protection module with simple quick release mechanism allowing partial removal for easy line commissioning and maintenance as well as full removal for protection replacement
- Very low (1 Ω) in-line resistance allows resistance critical applications (e.g. alarm loops) to be protected
- High (500 mA) maximum running current
- High bandwidth enables higher frequency (high traffic or bit rate) data communications
- Strong, flame retardant, polycarbonate housing
- Built-in innovative DIN rail foot with locking feature for simple positioning and clip-on mounting to top hat DIN rails
- 4 mm² terminals allow for larger cross section wiring, stranded wires terminated with ferrules or fitting two wires into a single terminal
- Convenient earthing through DIN foot and/or earth terminal

Application

Use these protectors for 3-wire systems where installation space is at a premium and large numbers of lines require protection (e.g. process control, high speed digital communication equipment or systems with long signal lines).

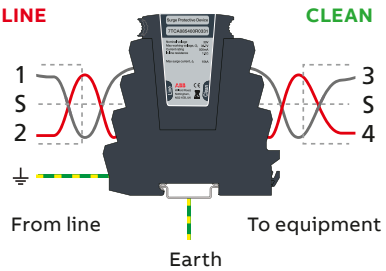
Installation

Connect in series with the data communication or signal line either near where it enters or leaves the building or close to the equipment being protected (e.g. within its control panel). Either way, it must be very close to the system's earth star point. Install protectors either within an existing cabinet/cubicle or in a separate enclosure.

Accessories

CReplacement modules:
OVR SLXX/3W/M
Standard module replacement where XX is voltage rating (06, 15, 30, 50 or 110)
OVR SL/3W/B
Base replacement

Weatherproof enclosure:
OVR WBX SLQ



NOTE: The OVR SL 'Slim Line' Series is also available for protection of 2-wire systems up to 110 V, RS 485, RTD and telecommunication applications (OVR SL Series, OVR SL RS485, OVR SL RTD and OVR SL TN). The OVR SL X Series has approvals for use in hazardous areas.

Protection and safety

Data & signal protection

OVR SL 3-Wire Series

OVR SL 3-Wire Series - Technical specification

Electrical specification	OVR SL06/3W	OVR SL15/3W	OVR SL30/3W	OVR SL50/3W	OVR SL110/3W
ABB order code	7TCA085400R0328	7TCA085400R0330	7TCA085400R0331	7TCA085400R0332	7TCA085400R0329
Nominal voltage[1]	6 V	15 V	30 V	50 V	110 V
Maximum working voltage *Uc* (RMS/DC)[2]	5 V / 7.79 V	11 V / 16.7 V	25 V / 36.7 V	40 V / 56.7 V	93 V / 132 V
Current rating (signal)	500 mA				
In-line resistance (per line ±10%)	1.0 Ω				3.3 Ω
Bandwidth (-3 dB 50 Ω system)	45 MHz				
Transient specification	**OVR SL06/3W**	**OVR SL15/3W**	**OVR SL30/3W**	**OVR SL50/3W**	**OVR SL110/3W**
Let-through voltage (all conductors)[3] *Up*					
C2 test 4 kV 1.2/50 µs, 2 kA 8/20 µs to BS EN/EN/IEC 61643-21	36.0 V	38.4 V	63.0 V	90.3 V	185 V
C1 test 1 kV, 1.2/50 µs, 0.5 kA 8/20 µs to BS EN/EN/IEC 61643-21	26.2 V	29.4 V	51.3 V	77.2 V	175 V
B2 test 4 kV 10/700 µs to BS EN/EN/IEC 61643-21	16.0 V	26.8 V	45.4 V	68.3 V	165 V
5 kV, 10/700 µs[4]	17.0 V	27.5 V	46.3 V	69.1 V	170 V
Maximum surge current					
D1 test 10/350 µs to BS EN/EN/IEC 61643-21: – Per signal wire	1.25 kA				
D1 test 10/350 µs to BS EN/EN/IEC 61643-21: – Per pair	2.5 kA				
8/20 µs to ITU-T K.45:2003, IEEE C62.41.2:2002: – Per signal wire	5 kA				
8/20 µs to ITU-T K.45:2003, IEEE C62.41.2:2002: – Per pair	10 kA				
Mechanical specification	**OVR SL06/3W**	**OVR SL15/3W**	**OVR SL30/3W**	**OVR SL50/3W**	**OVR SL110/3W**
Temperature range	-40 to +80 °C				
Connection type	Screw terminal - maximum torque 0.8 Nm				
Conductor size (stranded)	4 mm²				
Earth connection	Via DIN rail or 4 mm² earth terminal - maximum torque 0.8 Nm				
Case material	FR Polymer UL-94 V-0				
Weight: – Unit	0.08 kg				
Dimensions	See diagram below				

[1] Nominal voltage (RMS/DC or AC peak) measured at < 10 µA (OVR SL15/3W, OVR SL30/3W, OVR SL50/3W, OVR SL110/3W) and < 200 µA (OVR SL06/3W)
[2] Maximum working voltage (RMS/DC or AC peak) measured at < 1 mA leakage
[3] The maximum transient voltage let-through of the protector throughout the test (±10%), line to line & line to earth, both polarities. Response time < 10 ns
[4] Test to IEC 61000-4-5:2006, ITU-T (formerly CCITT) K.20, K.21 and K.45, Telcordia GR-1089-CORE, Issue 2:2002, ANSI TIA/EIA/IS-968-A:2002 (formerly FCC Part 68)

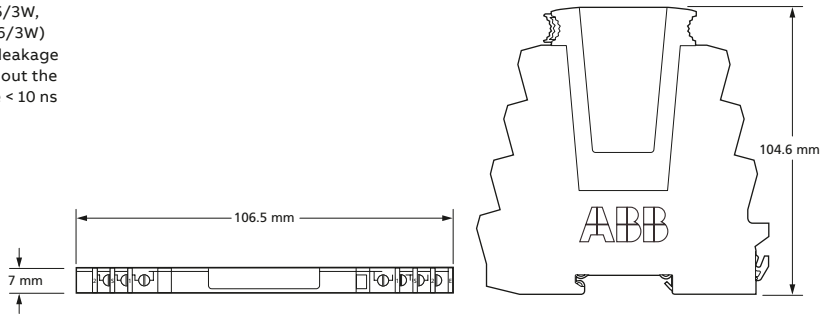


ABB order codes

Part	ABB order code	Part	ABB order code
OVR SL06/3W	7TCA085400R0328	**OVR SL50/3W**	7TCA085400R0332
OVR SL06/3W/M	7TCA085400R0405	**OVR SL50/3W/M**	7TCA085400R0409
OVR SL15/3W	7TCA085400R0330	**OVR WBX SLQ/G**	7TCA085400R0327
OVR SL15/3W/M	7TCA085400R0406	**OVR SL110/3W**	7TCA085400R0329
OVR WBX SLQ	7TCA085400R0326	**OVR SL110/3W/M**	7TCA085400R0408
OVR SL30/3W	7TCA085400R0331	**OVR SL/B**	7TCA085400R0320
OVR SL30/3W/M	7TCA085400R0407	**OVR SL/I/B**	7TCA085400R0321

5

Protection and safety

Data & signal protection

OVR SL LED 4-20 mA Series



LPZ 0→3 | FULL MODE Bonding + Equipment Protection | REPLACEABLE PROTECTION MODULE | SIGNAL/ TELECOM TEST CAT D + C + B | ENHANCED Low let-through voltage

LOW IN-LINE RESISTANCE 1 Ω | CURRENT RATING 75 mA | ULTRA SLIM 7 mm WIDTH | LED INDICATION | GND

Combined Category D, C, B tested protector (to BS EN 61643) suitable for twisted pair 4-20 mA loop systems with innovative LED protector status indication. For use at boundaries up to LPZ 0 to protect against flashover (typically the service entrance location) through to LPZ 3 to protect sensitive electronic equipment (e.g. transmitters, monitors, controllers).

Features & benefits

- Very low let-through voltage (enhanced protection to IEC/BS EN 62305) between all lines - Full Mode protection
- Full Mode design capable of handling partial lightning currents as well as allowing continual operation of protected equipment
- Repeated protection in lightning intense environments
- Innovative LED indication of protection status provides easy visual checking and quick maintenance
- Ultra slim 7 mm width ideal for compact protection of large numbers of lines (e.g. process control installations)
- Two stage removable protection module with simple quick release mechanism allowing partial removal for easy line commissioning and maintenance as well as full removal for protection replacement
- Very low (1 Ω) in-line resistance for minimal system interference
- High (75 mA) maximum running current - can also be used on 10-50 mA systems (e.g. process control)
- Screen terminal enables easy connection of cable screen to earth
- Strong, flame retardant, polycarbonate housing
- Built-in innovative DIN rail foot with locking feature for simple positioning and clip-on mounting to top hat DIN rails
- 4 mm² terminals allow for larger cross section wiring, stranded wires terminated with ferrules or fitting two wires into a single terminal
- Convenient earthing through DIN foot and/or earth terminal

Application

Use these protectors on 4-20 mA loop systems - ideal where installation space is at a premium and large numbers of lines require protection, or for systems with long signal lines.

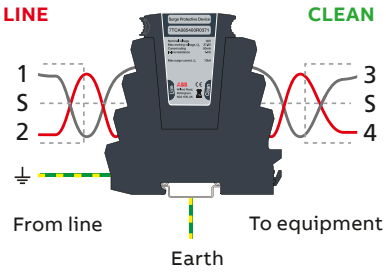
Installation

Connect in series with the 4-20 mA current loop either near where it enters or leaves the building or close to the equipment being protected (e.g. within its control panel). Either way, it must be very close to the system's earth star point. Install protectors either within an existing cabinet/ cubicle or in a separate enclosure.

Accessories

OVR SL30L/4-20/M
Module replacement
OVR SL/B
Base replacement

Weatherproof enclosure:
OVR WBX SLQ



TECHNICAL NOTE: 4-20 mA current loops can serve multiple devices over a long distance. The devices and wiring produce a voltage drop (also known as "loop drops") but these do not reduce the 4-20 mA current as long as the power supply voltage is greater than the sum of the voltage drops around the loop at the maximum signalling current of 20 mA.For design considerations, each OVR SL30L/4-20 device installed within the loop introduces a 1.7 V loop drop.

NOTE: The OVR SL 'Slim Line' Series is also available for protection of systems up to 110 V as well as 3-wire, RS 485, RTD & telecommunication applications (OVR SL/3W, OVR SL RS485, OVR SL RTD & OVR SL TN). The OVR SL X Series has approvals for use in hazardous areas.

Protection and safety

Data & signal protection

OVR SL LED 4-20 mA Series

OVR SL LED 4-20 mA Series - Technical specification

Electrical specification	**OVR SL30L/4-20**
ABB order code	7TCA085400R0371
Nominal voltage(1)	30 V
Maximum working voltage *Uc* (RMS/DC)(2)	25 V / 36.7 V
Current rating (signal)(3)	75 mA
In-line resistance (per line ±10%)	1.0 Ω
Series voltage drop(4)	1.7 V
Bandwidth (-3 dB 50 Ω systems)	45 MHz
Transient specification	**OVR SL30L/4-20**
Let-through voltage (all conductors)(5) Up	
C2 test 4 kV 1.2/50 µs, 2 kA 8/20 µs to BS EN/EN/IEC 61643-21	63.0 V
C1 test 1 kV, 1.2/50 µs, 0.5 kA 8/20 µs to BS EN/EN/IEC 61643-21	51.3 V
B2 test 4 kV 10/700 µs to BS EN/EN/IEC 61643-21	45.4 V
5 kV, 10/700 µs(6)	46.3 V
Maximum surge current	
D1 test 10/350 µs to BS EN/EN/IEC 61643-21: – Per signal wire – Per pair	1.25 kA 2.5 kA
8/20 µs to ITU-T K.45:2003, IEEE C62.41.2:2002: – Per signal wire – Per pair	5 kA 10 kA
Mechanical specification	**OVR SL30L/4-20**
Temperature range	-40 to +80 °C
Connection type	Screw terminal - maximum torque 0.8 Nm
Conductor size (stranded)	4 mm²
Earth connection	Via DIN rail or 4 mm² earth terminal - maximum torque 0.8 Nm
Case material	FR Polymer UL-94 V-0
Weight: – Unit	0.08 kg
Dimensions	See diagram below

(1) Nominal voltage (RMS/DC or AC peak) measured at < 10 µA
(2) Maximum working voltage (RMS/DC or AC peak) measured at < 1 mA leakage
(3) The minimum current for LED indicator operation is 2 mA
(4) At 20 mA
(5) The maximum transient voltage let-through of the protector throughout the test (±10%), line to line & line to earth, both polarities. Response time < 10 ns
(6) Test to IEC 61000-4-5:2006, ITU-T (formerly CCITT) K.20, K.21 and K.45, Telcordia GR-1089-CORE, Issue 2:2002, ANSI TIA/EIA/IS-968-A:2002 (formerly FCC Part 68)

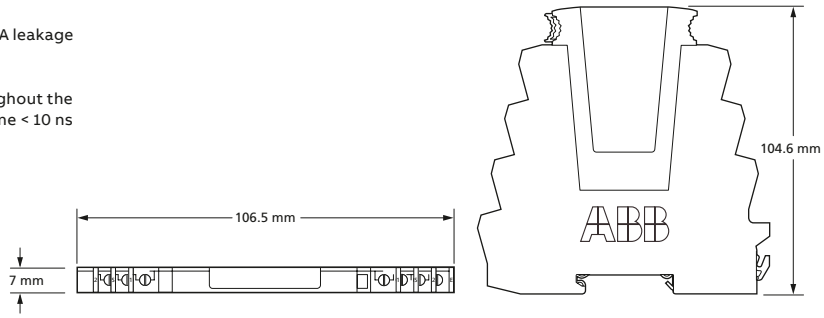


ABB order codes

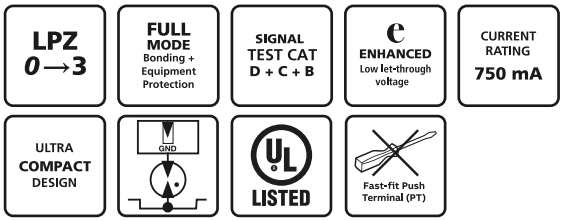
Part	**ABB order code**	**Part**	**ABB order code**
OVR SL30L/4-20	7TCA085400R0371	**OVR SL/B**	7TCA085400R0320
OVR SL30L/4-20/I	7TCA085400R0372	**OVR SL/I/B**	7TCA085400R0321
OVR SL30L/4-20/M	7TCA085400R0373	**OVR WBX SLQ**	7TCA085400R0326

Protection and safety

Data & signal protection

OVR Q Series





Combined Category D, C, B (to IEC/EN 61643) Surge Protective Device (SPD) suitable for 4 twisted pair lines. Available for working voltages of up to 6, 15, 30, 50, 110 and 180 Volts. For use at boundaries up to LPZ 0 to protect against flashover (typically the service entrance location) through to LPZ 3 to protect sensitive electronic equipment.

Features & benefits

- Very low let-through voltage (enhanced protection to IEC/BS EN 62305) between all lines - Full Mode protection
- Full Mode design capable of handling partial lightning currents as well as allowing continual operation of protected equipment
- Repeated protection in lightning intense environments
- Almost twice as space efficient as smallest competitor
- Standard DIN module (18 mm) depth
- Removable (plug-in) terminals allow pre-wiring of cable looms, for easier installation
- Suitable for earthed or isolated screen systems
- Built-in DIN rail foot for clip-on mounting to top hat or G DIN rails
- Optional flat mounting on side
- 2.5 mm² terminals allow for larger cross section wiring, stranded wires terminated with ferrules or fitting two wires into a single terminal
- Fast fit screwless Push Terminal versions (OVR X/PT) allow quick tool-less cable connection saving installation time
- Very low resistance to minimizes unwanted signal strength reductions
- Strong, flame retardant, ABS housing
- Colour coded terminals (grey for line, green for clean) give a quick and easy installation check
- Screen terminal enables easy connection of cable screen, maintaining continuity through the SPD between the input and output connectors.
- Simple, yet substantial, connection to earth via DIN rail
- OVR 06Q-180Q (and /PT variants) have UL497b approval under E240341

Application

Use these SPDs where installation space is at a premium and large numbers of lines require protection.

Installation

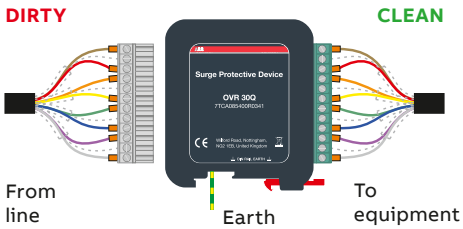
Connect in series with the signal or data line either near where it enters or leaves the building or close to the equipment being protected. Install in a cabinet/cubicle close to the system's earth star point.

Accessories

Weather proof enclosures:
OVR WBX SLQ (with transparent lid)
ABB order code
7TCA085400R0326

OVR WBX SLQ/G (with opaque grey lid)
ABB order code
7TCA085400R0327

OVR 06Q, OVR 15Q, OVR 30Q, OVR 50Q and OVR 110Q installed in series (in-line)



NOTE: The OVR Q Series is also available for protection of RS 485 and RTD applications (OVR RS485Q, OVR RTDQ). Protectors for individual data and signal lines are available (OVR D Series and Slim Line OVR SL Series). Alternatively, for individual protectors with higher current or bandwidth use the OVR E and OVR H Series. For telecommunication applications use OVR TNQ Series.

Protection and safety

Data & signal protection

OVR Q Series

OVR Q Series - Technical specification

Electrical specification	OVR 06Q Series	OVR 15Q Series	OVR 30Q Series	OVR 50Q Series	OVR 110Q Series	OVR 180Q Series
Nominal voltage[1]	6 V	15 V	30 V	50 V	110 V	180 V
Maximum working voltage *Uc* (RMS/DC)[2]	5 V / 7.79 V	13 V / 18.8 V	26 V / 37.8 V	41 V / 57.8 V	93 V / 132 V	130 V/190 V
Current rating (signal)	750 mA				500 mA	250 mA
In-line resistance (per line ±10%)	1.0 Ω				3.3 Ω	6.8 Ω
Bandwidth (-3 dB 50 Ω system)	45 MHz					
Transient specification						
Let-through voltage (all conductors)[3] Up						
C2 test 4 kV 1.2/50 µs, 2 kA 8/20 µs to BS EN/EN/IEC 61643-21	15.0 V	28.0 V	53.0 V	84.0 V	188 V	215 V
C1 test 1 kV, 1.2/50 µs, 0.5 kA 8/20 µs to BS EN/EN/IEC 61643-21	12.5 V	26.5 V	48.0 V	76.0 V	175 V	205 V
B2 test 4 kV 10/700 µs to BS EN/EN/IEC 61643-21	10.0 V	23.0 V	43.5 V	64.5 V	145 V	203 V
5 kV, 10/700 µs[4]	10.8 V	26.2 V	44.3 V	65.8 V	150 V	200 V
Maximum surge current						
D1 test 10/350 µs to BS EN/EN/IEC 61643-21: – Per signal wire – Per pair	2.5 kA 5 kA					
8/20 µs to ITU-T K.45:2003, IEEE C62.41.2:2002: – Per signal wire – Per pair	10 kA 20 kA					
Mechanical specification						
Temperature range	-40 to +80 °C					
Connection type	Pluggable 12 way screw terminal - maximum torque 0.6 Nm /PT version: Pluggable 12 way screwless Push Terminal					
Conductor size (stranded)	2.5 mm^2					
Earth connection	Via DIN rail or M5 threaded hole in base of unit					
Case material	FR Polymer UL-94 V-0					
Weight: – Unit – Packaged (each)	0.1 kg 0.12 kg					
Dimensions	See diagram below					

[1] Nominal voltage (RMS/DC or AC peak) measured at < 5 µA (OVR 15Q, OVR 30Q, OVR 50Q, OVR 110Q) and < 200 µA (OVR 06Q)
[2] Maximum working voltage (RMS/DC or AC peak) measured at < 5 mA leakage (OVR 15Q, OVR 30Q, OVR 50Q, OVR 110Q)
[3] The maximum transient voltage let-through of the protector throughout the test (±10%), line to line & line to earth, both polarities. Response time < 10 ns
[4] Test to IEC 61000-4-5:2006, ITU-T (formerly CCITT) K.20, K.21 and K.45, Telcordia GR-1089-CORE, Issue 2:2002, ANSI TIA/EIA/IS-968-A:2002 (formerly FCC Part 68)

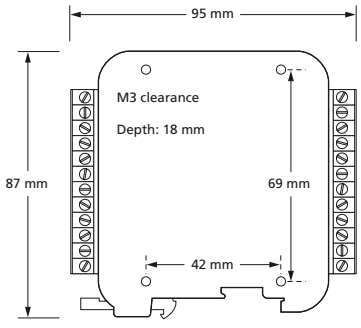


ABB order codes

Part	ABB order code	Part	ABB order code	Part	ABB order code
OVR RS485	7TCA085400R0311	**OVR RS485Q(UL)**	7TCA085400R0572	**OVR CME8**	7TCA085400R0415
OVR SLRS485/B	7TCA085400R0316	**OVR RS485Q/PT(UL)**	7TCA085400R0579	**OVR CME32**	7TCA085410R0046
OVR SLRS485	7TCA085400R0310	**OVR SLRS485/M**	7TCA085400R0317	**OVR WBXSLQ**	7TCA085400R0326
OVR SLRS485L	7TCA085400R0417	**OVR SLRS485L/M**	7TCA085400R0470	**OVR WBXSLQ/G**	7TCA085400R0327
OVR SLRS485(UL)	7TCA085400R0551	**OVR SLRS485L/M(UL)**	7TCA085400R0600	**WBX 4**	7TCA085410R0027
OVR SLRS485L(UL)	7TCA085400R0552	**OVR CME4**	7TCA085400R0414	**WBX 8**	7TCA085410R0030
OVR RS485Q	7TCA085400R0312	**OVR CME16**	7TCA085410R0045	**WBX 16/2/G**	7TCA085410R0020

5

Protection and safety

Data & signal protection

OVR RTD, RTDQ & SL RTD Series



LPZ 0→3 | FULL MODE Bonding + Equipment Protection | OVR SL RTD ULTRA SLIM 7 mm WIDTH | SIGNAL/TELECOM TEST CAT D + C + B | ENHANCED Low let-through voltage | OVR RTDQ ULTRA COMPACT 18 mm WIDTH | LOW IN-LINE RESISTANCE | OVR SL RTD HIGH BANDWIDTH

Combined Category D, C, B tested protector (to BS EN 61643) suitable for 3-wire RTD systems to protect monitoring equipment. For use at boundaries up to LPZ 0 to protect against flashover (typically the service entrance location) through to LPZ 3. Available as standard OVR RTD format, or compact OVR RTDQ and Slim Line OVR SL RTD versions for installations where a high number of lines require protection.

Features & benefits

- Protects all three wires on a 3-wire RTD system with a single protector
- Very low let-through voltage (enhanced protection to IEC/BS EN 62305) between all lines - Full Mode protection
- Full Mode design capable of handling partial lightning currents as well as allowing continual operation of protected equipment
- Repeated protection in lightning intense environments
- Low in-line resistance minimizes reductions in signal strength
- Built-in DIN rail foot for simple mounting to top hat DIN rails
- Convenient earthing through DIN foot and/or earth terminal
- OVR RTD can be flat mounted on base or side
- OVR RTD and OVR RTDQ have colour coded terminals for quick and easy installation check
- OVR SL RTD has ultra slim 7mm width ideal for compact protection of large numbers of lines (e.g. process control installations)
- OVR SL RTD includes two stage removable protection module with simple quick release mechanism allowing partial removal for easy line commissioning and maintenance as well as full removal for protection replacement

For further information on RTD applications, see separate Application Note OVR AN001 (contact us for a copy).

Installation

Connect in series with the signal line either near where it enters or leaves the building or close to the equipment being protected ensuring it is very close to the system's earth star point. Install protectors either within an existing cabinet/cubicle or in a separate enclosure.

Accessories

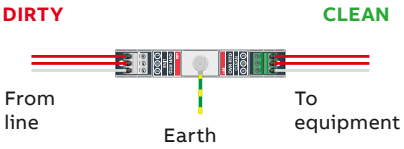
Replacement module for OVR SL RTD:
OVR SLRTD/M
Standard module replacement
OVR SLRTD/B
Base replacement

Combined Mounting/Earthing kits for OVR RTD:
OVR CME 4 For up to 4 x OVR RTD
OVR CME 8 For up to 8 x OVR RTD
OVR CME 16 For up to 16 x OVR RTD
OVR CME 32 For up to 32 x OVR RTD

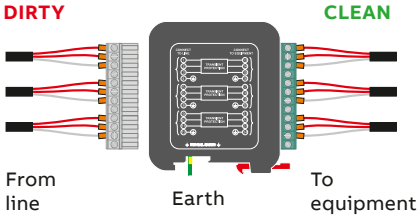
If protectors cannot be incorporated within an existing panel or enclosure, OVR WBX enclosures are available for up to 4, 8, 16 or 32 protectors and their associated OVR CME kit.

Weatherproof enclosure:
OVR WBX SLQ (OVR SLRTD and OVR RTD Q)

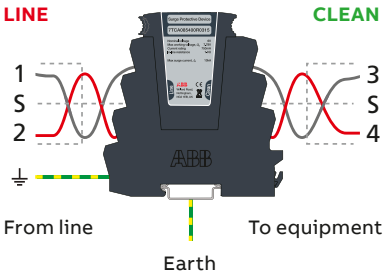
OVR RTD installed in series



OVR RTDQ installed in series (in-line)



OVR SL RTD installed in series



NOTE: For 2-wire or 4-wire RTD applications, use one or two OVR 06D or OVR SL06 protectors respectively.

Protection and safety

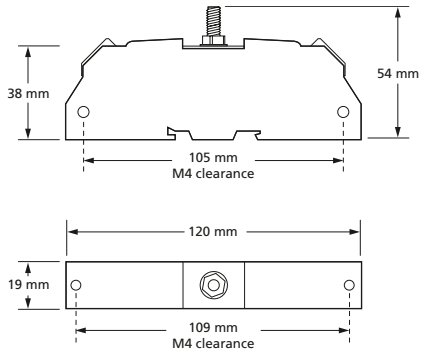
Data & signal protection

OVR RTD Series

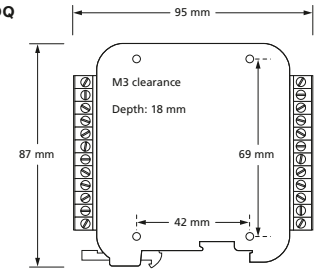
OVR RTD, RTDQ & SL RTD Series - Technical specification

Electrical specification		OVR RTD	OVR SL RTD	OVR RTDQ
ABB order code		7TCA085400R0313	7TCA085400R0315	7TCA085400R0314
Nominal voltage [1]		6 V		
Maximum working voltage Uc (RMS/DC) [2]		5 V/7.79 V		
Current rating (signal)		200 mA	500 mA	700 mA
In-line resistance (per line ±10%)		10 Ω	1.0 Ω	1.0 Ω
Bandwidth (-3 dB 50 Ω system)		800 kHz	1.5 MHz	800 kHz
Transient specification		**OVR RTD**	**OVR SL RTD**	**OVR RTDQ**
Let-through voltage (all conductors) [3] Up				
C2 test 4 kV 1.2/50 µs, 2 kA 8/20 µs to BS EN/EN/IEC 61643-21		12.0 V	17.9 V	15.0 V
C1 test 1 kV, 1.2/50 µs, 0.5 kA 8/20 µs to BS EN/EN/IEC 61643-21		11.5 V	12.1 V	12.5 V
B2 test 4 kV 10/700 µs to BS EN/EN/IEC 61643-21		10.0 V	11.0 V	10.0 V
5 kV, 10/700 µs [4]		10.5 V	11.3 V	10.5 V
Maximum surge current				
D1 test 10/350 µs to BS EN/EN/IEC 61643-21	– Per signal wire	2.5 kA	1.25 kA	2.5 kA
	– Per pair	5 kA	2.5 kA	5 kA
8/20 µs to ITU-T K.45:2003, IEEE C62.41.2:2002	– Per signal wire	10 kA		
	– Per pair	20 kA		
Mechanical specification		OVR RTD	OVR SL RTD	OVR RTDQ
Temperature range		-40 to +80 °C		
Connection type		Screw terminal - max. torque 0.5 Nm	Screw terminal - max. torque 0.8 Nm	Pluggable 12 way screw terminal
Conductor size (stranded)		2.5 mm^2	4 mm^2	2.5 mm^2
Earth connection		M6 stud - max. torque 0.5 Nm	Via DIN rail or 4 mm^2 earth terminal - max. torque 0.8 Nm	Via DIN rail or M5 threaded hole in base of unit - max. torque 0.6 Nm
Case Material		FR Polymer UL-94 V-0		
Weight	– Unit	0.08 kg	0.08 kg	0.1 kg
	– Packaged (per 10)	0.85 kg	0.85 kg	1.3 kg
Dimensions		See diagram below		

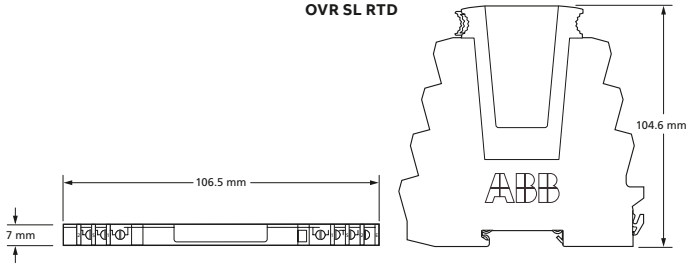
OVR RTD



OVR RTDQ



OVR SL RTD



[1] Nominal voltage (RMS/DC or AC peak) measured at < 200 µA
[2] Maximum working voltage (RMS/DC or AC peak) measured at < 10 mA
[3] The maximum transient voltage let-through of the protector throughout the test (±10%), line to line & line to earth, both polarities. Response time < 10 ns
[4] Test to IEC 61000-4-5:2006, ITU-T (formerly CCITT) K.20, K.21 and K.45,Telcordia GR-1089-CORE, Issue 2:2002, ANSI TIA/EIA/IS-968-A:2002 (formerly FCC Part 68)

Protection and safety

Telecoms & computer line protection
OVR KT & KE Series



LPZ 0→3 | FULL MODE Bonding + Equipment Protection | SIGNAL/ TELECOM TEST CAT D + C + B | ENHANCED Low let-through voltage | HIGH BANDWIDTH | LOW IN-LINE RESISTANCE 4.4 Ω | GND

Combined Category D, C, B tested protector (to BS EN 61643) suitable for use on ten line LSA-PLUS disconnection modules to PBX telephone exchanges, ISDN and other telecoms equipment with LSA-PLUS disconnection modules. For use at boundaries up to LPZ 0 to protect against flashover (typically the service entrance location) through to LPZ 3 to protect sensitive electronic equipment.

Features & benefits

- Low cost protection for large numbers of data and signal lines
- Very low let-through voltage (enhanced protection to IEC/BS EN 62305) between all lines - Full Mode protection
- Full Mode design capable of handling partial lightning currents as well as allowing continual operation of protected equipment
- Repeated protection in lightning intense environments
- Colour of housing distinguishes electrically different protectors - avoids confusion when installed together on the same distribution frame
- Quick and easy plug-in installation, with 'bump' location feedback
- Under power line cross conditions/PTC versions offer safe disconnection during fault duration. Unit auto-resets once fault corrected
- At larger installations OVR K10T1 and OVR K10T1/PTC provide all in one protection for all ten lines on LSA-PLUS disconnection modules
- Use the OVR KE10 to provide trouble free earthing for up to ten OVR KT1 and OVR KT1/PTC (per disconnection module)
- OVR K10T1 and OVR K10T1/PTC have an integral earth connection, and an external M4 earth bush for use with non-metallic LSA-Plus frames
- OVR KT1/PTC and OVR K10T1/PTC have resettable overcurrent protection and are rated for power cross faults
- OVR KT1, OVR KT1/PTC, OVR K10T1 and OVR K10T1/PTC are suitable for telecoms applications in accordance with Telcordia and ANSI Standards

Application

- For PSTN (e.g POTS, dial-up, lease line, T1/E1, *DSL and Broadband) and U interface ISDN lines, use OVR KT1 (or OVR KT1/PTC) and OVR K10T1 (or OVR K10T1/PTC)
- Protect single lines with OVR KT1 or OVR KT1/PTC
- Protect all ten lines on a disconnection module with OVR K10T1 or OVR K10T1/PTC

Installation

Install protectors on all lines that enter or leave each building (including extensions to other buildings). Identify the lines requiring protection and plug-in the protector (ensuring the correct orientation) for a series connection. Plug OVR K10T1 or OVR K10T1/PTC directly into each disconnection module requiring protection.

OVR KT1 and OVR KT1/PTC must be installed via the OVR KE10 earth bar. Clip an OVR KE10 on to the disconnection module and plug an OVR KT1 or OVR KT1/PTC in to each line on the module that needs protecting. In the unlikely situation that the protector is damaged, it will sacrifice itself and fail short circuit, taking the line out of commission, indicating it needs replacing and preventing subsequent transients from damaging equipment.

For further information on global telephony applications, see separate Application Note OVR AN005 (contact us for a copy).

NOTE: For individual telephone lines and lines at unmanned sites the high performance OVR TN or plug-in OVR TN/JP or OVR TN/RJ11 Series should be used.
For plug-in S/T interface ISDN protection, use the ISDN Series protectors.

Protection and safety

Telecoms & computer line protection

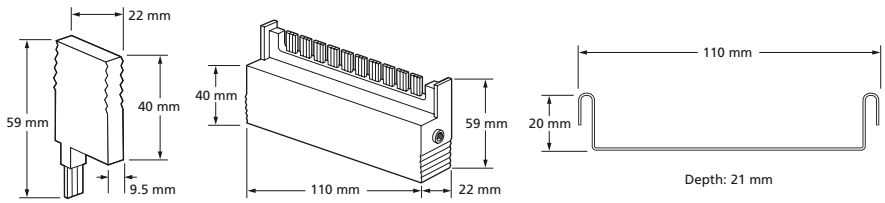
OVR KT & KE Series

OVR KT & KE Series - Technical specification

Electrical specification		**OVR KT1**	**OVR KT1/PTC**	**OVR K10T1**	**OVR K10T1/PTC**
ABB order code		7TCA085400R0305	7TCA085400R0306	7TCA085400R0307	7TCA085400R0410
Maximum working voltage Uc [1]	– line to line	296 V	296 V	296 V	296 V
	– line to earth	296 V	296 V	296 V	296 V
Current rating (signal)		300 mA	145 mA	300 mA	145 mA
In-line resistance (per line ±10%)		4.4 Ω			
Bandwidth (-3 dB 50 Ω system)		20 MHz	20 MHz	20 MHz	20 MHz
Transient specification		**OVR KT1**	**OVR KT1/PTC**	**OVR K10T1**	**OVR K10T1/PTC**
Let-through voltage (all conductors) [2] Up					
C2 test 4 kV 1.2/50 µs, 2 kA 8/20 µs to BS EN/EN/IEC 61643-21	– line to line	395 V	395 V	395 V	395 V
	– line to earth	395 V	395 V	395 V	395 V
C1 test 1 kV, 1.2/50 µs, 0.5 kA 8/20 µs to BS EN/EN/IEC 61643-21	– line to line	390 V	390 V	390 V	390 V
	– line to earth	390 V	390 V	390 V	390 V
B2 test 4 kV 10/700 µs to BS EN/EN/IEC 61643-21	– line to line	298 V	298 V	298 V	298 V
	– line to earth	298 V	298 V	298 V	298 V
5 kV, 10/700 µs [3]	– line to line	300 V	300 V	300 V	27 V
	– line to earth	300 V	300 V	300 V	80 V
Maximum surge current [4]					
D1 test 10/350 µs to BS EN/EN/IEC 61643-21	– line to line	1 kA			
	– line to earth	2 kA			
8/20 µs to ITU-T K.45:2003, IEEE C62.41.2:2002	– line to line	5 kA			
	– line to earth	10 kA			

Power Faults specification	**OVR KT1**	**OVR KT1/PTC**	**OVR K10T1**	**OVR K10T1/PTC**
Power/Line Cross and Power Induction - tests to: ITU-T (formerly CCITT) K.20, K.21 and K.45, Telcordia GR-1089-CORE, Issue 2:2002, UL 60950/IEC 950				
Power/line cross	–	110/230 Vac (15 min)	–	110/230 Vac (15 min)
Power induction	–	600 V, 1 A (0.2 sec)	–	600 V, 1 A

Mechanical specification		**OVR KT1, OVR KT1/PTC**	**OVR K10T1, OVR K10T1/PTC**	**OVR KE10**
Temperature range		-40 to +80 °C		–
Connection type		To LSA-PLUS disconnection modules (BT part number 237A)		–
Earth connection		Via OVR KE10 earth bar	Via integral earth clip/external M4 bush	–
Material		FR Polymer UL-94 V-0		Stainless Steel
Weight	– Unit	0.01 kg	0.10 kg	0.01 kg
	– Packaged	0.12 kg (per 10)	0.12 kg	0.10 kg (per 10)
Dimensions		See diagram below		



[1] Maximum working voltage (DC or AC peak) at 10 µA for OVR KT1, OVR KT1/PTC, OVR K10T1, OVR K10T1/PTC

[2] The maximum transient voltage let-through of the protector throughout the test (±10%), line to line & line to earth, both polarities. Response time < 10 ns

[3] Test to IEC 61000-4-5:2006, ITU-T (formerly CCITT) K.20, K.21 and K.45,Telcordia GR-1089-CORE, Issue 2:2002, ANSI TIA/EIA/IS-968-A:2002 (formerly FCC Part 68)

[4] The installation and connections external to the protector may limit the capability of the protector

5

Protection and safety

Telecoms & computer line protection
OVR TN/RJ11 & ISDN/RJ45 Series



LPZ 0→3 | FULL MODE Bonding + Equipment Protection | SIGNAL/TELECOM TEST CAT D + C + B | ENHANCED Low let-through voltage | LOW IN-LINE RESISTANCE 4.4 Ω | CURRENT RATING 300 mA

Combined Category D, C, B tested protector (to BS EN 61643) suitable to protect telephony equipment plugged into a Modem (RJ11) or ISDN (RJ45) socket. For use at boundaries up to LPZ 0 to protect against flashover (typically the service entrance location) through to LPZ 3 to protect sensitive electronic equipment.

Features & benefits

- Very low let-through voltage (enhanced protection to IEC/BS EN 62305) between all lines - Full Mode protection
- Full Mode design capable of handling partial lightning currents as well as allowing continual operation of protected equipment
- Repeated protection in lightning intense environments
- Substantial earth connection to enable effective earthing
- Supplied in a sturdy ABS housing ready for flat mounting, or vertically via TS35 'Top Hat' DIN rail
- OVR TN/RJ11-2/6, OVR TN/RJ11-4/6 and OVR TN/RJ11-6/6 are suitable for telecommunication applications in accordance with Telcordia and ANSI Standards (see Application Note OVR AN005)

Application

- For PSTN (e.g. POTS, dial-up, lease line, T1/E1, *DSL and Broadband) use TN/RJ11
- OVR TN/RJ11... are suitable for use on telephone lines with a maximum (or ringing) voltage of up to 296 Volts
- For telephone lines with RJ11 connections protect the middle 2 (of 6) conductors with OVR TN/RJ11-2/6, the middle 4 (of 6) with OVR TN/RJ11-4/6 or all 6 with OVR TN/RJ11-6/6
- For S/T interface ISDN lines, use OVR ISDN/RJ45-4/8 and OVR ISDN/RJ45-8/8
- For S/T interface ISDN lines with RJ45 connections protect the middle 4 (of 8) conductors (paired 3&6, 4&5) with OVR ISDN/RJ45-4/8, or all 8 (outside pairs 1&2, 7&8) with OVR ISDN/RJ45-8/8

For further information on RJ45 ISDN applications, see separate Application Note OVR AN002 and for global telephony applications, see separate Application Note OVR AN005 (contact us for a copy).

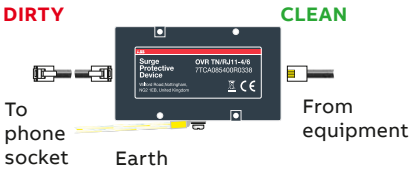
Installation

Connect in series with the telephone or ISDN line. These units are usually installed close to the equipment being protected and within a short distance of a good electrical earth.

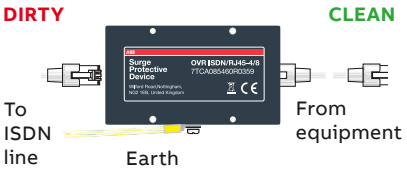
Accessories

OVR CAT5e/UTP-1
1 metre cable with RJ45 connections

Plug-in series connection for OVR TN/RJ11-2/6, 4/6 & 6/6



Plug-in series connection for OVR ISDN/RJ45-4/8 & 8/8



NOTE: For non-ISDN wire-in applications the high performance OVR TN, OVR SLTN or OVR TNQ can be used.
Protect PBX telephone exchanges and other equipment with LSA-PLUS connections using OVR KT series.

Protection and safety

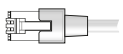
Telecoms & computer line protection

OVR TN/RJ11 & ISDN/RJ45 Series

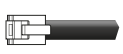
OVR TN/RJ11 & ISDN/RJ45 Series - Technical specification

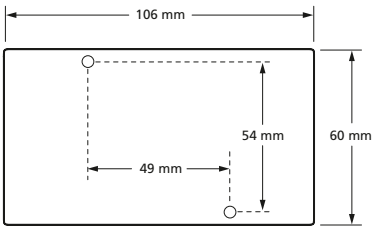
Electrical specification		**OVR TN/ RJ11-2/6**	**OVR TN/ RJ11-4/6**	**OVR TN/ RJ11-6/6**	**OVR ISDN/ RJ45-4/8**	**OVR ISDN/ RJ45-8/8**
ABB order code		7TCA085400R0337	7TCA085400R0338	7TCA085400R0339	7TCA085460R0359	7TCA085460R0360
Nominal voltage		296 V	296 V	296 V	5 V	5 V/58 V [2]
Maximum working voltage Uc [1]		296 V	296 V	296 V	58 V	58 V
Current rating (signal)		300 mA				
In-line resistance (per line ±10%)		4.4 Ω				
Bandwidth (-3 dB 50 Ω system)		20 MHz	20 MHz	20 MHz	19 MHz	19 MHz
Transient specification		**OVR TN/ RJ11-2/6**	**OVR TN/ RJ11-4/6**	**OVR TN/ RJ11-6/6**	**OVR ISDN/ RJ45-4/8**	**OVR ISDN/ RJ45-8/8**
Let-through voltage (all conductors) [3] Up						
C2 test 4 kV 1.2/50 µs, 2 kA 8/20 µs to BS EN/EN/IEC 61643-21	– line to line	395 V	395 V	395 V	28 V	28 V/88 V [5]
	– line to earth	395 V	395 V	395 V	88 V	88 V
C1 test 1 kV, 1.2/50 µs, 0.5 kA 8/20 µs to BS EN/EN/IEC 61643-21	– line to line	390 V	390 V	390 V	23 V	23 V/63 V [5]
	– line to earth	390 V	390 V	390 V	63 V	63 V
B2 test 4 kV 10/700 µs to BS EN/EN/IEC 61643-21	– line to line	298 V	298 V	298 V	26 V	26 V/65 V [5]
	– line to earth	298 V	298 V	298 V	65 V	65 V
5 kV, 10/700 µs [4]	– line to line	300 V	300 V	300 V	27 V	27 V/80 V [5]
	– line to earth	300 V	300 V	300 V	80 V	80 V
Maximum surge current [6]						
D1 test 10/350 µs to BS EN/EN/IEC 61643-21		1 kA				
8/20 µs to ITU-T K.45:2003, IEEE C62.41.2:2002:		10 kA				
Mechanical specification		**OVR TN/ RJ11-2/6**	**OVR TN/ RJ11-4/6**	**OVR TN/ RJ11-6/6**	**OVR ISDN/ RJ45-4/8**	**OVR ISDN/ RJ45-8/8**
Temperature range		-40 to +80 °C				
Connection type		RJ11 plug and socket	RJ11 plug and socket	RJ11 plug and socket	RJ45 plug and socket	RJ45 plug and socket
Earth connection		M4/DIN rail				
Case Material		FR Polymer UL-94 V-0				
Weight	– Unit	0.15 kg				
	– Packaged	0.2 kg				
Dimensions		See diagram below				

OVR ISDN/RJ45-4/8, 8/8
cable length: 0.5 m



OVR TN/RJ11-2/6, 4/6, 6/6
cable length: 1 m





Depth: 24 mm
Fixing centres 49 x 54 mm, M3 clearance

[1] Maximum working voltage (DC or AC peak) measured at < 10 µA leakage for OVR TN/RJ11 products and < 5 µA for OVR ISDN/RJ45 products
[2] Maximum working voltage is 5 V for pairs 3/6 & 4/5, and 58 V for pairs 1/2 & 7/8
[3] The maximum transient voltage let-through of the protector throughout the test (±10%), line to line & line to earth, both polarities. Response time < 10 ns
[4] Test to IEC 61000-4-5:2006, ITU-T (formerly CCITT) K.20, K.21 and K.45,Telcordia GR-1089-CORE, Issue 2:2002, ANSI TIA/EIA/IS-968-A:2002 (formerly FCC Part 68)
[5] The first let-through voltage value is for pairs 3/4 & 5/6, and the second value is for pairs 1/2 & 7/8
[6] The installation and connectors external to the protector may limit the capability of the protector

Protection and safety

Data & signal protection

OVR TN, TNQ & SL TN Series



FULL MODE Bonding + Equipment Protection

OVR SLTN ULTRA SLIM 7 mm WIDTH

LPZ 0→3

ENHANCED Low let-through voltage

OVR TNQ ULTRA COMPACT 18 mm WIDTH

SIGNAL/ TELECOM TEST CAT D + C + B

LOW IN-LINE RESISTANCE

HIGH BANDWIDTH

Combined Category D, C, B tested protector (to BS EN 61643) specifically designed for telecommunications applications in accordance with Telcordia and ANSI standards (see Application Note OVR AN005). For use at boundaries up to LPZ 0 to protect against flashover (typically the service entrance location) through to LPZ 3. Available as standard OVR TN format, or compact OVR TNQ and Slim Line OVR SL TN versions for installations where a high number of lines require protection.

Features & benefits

- Very low let-through voltage (enhanced protection to IEC/BS EN 62305) between all lines - Full Mode protection
- Full Mode design capable of handling partial lightning currents as well as allowing continual operation of protected equipment
- Repeated protection in lightning intense environments
- 20 MHz bandwidth greatly exceeds VDSL2+ (50Mbps ~ 7MHz) maximum speeds
- Low in-line resistance minimizes reductions in signal strength
- Built-in DIN rail foot for simple mounting to top hat DIN rails
- Convenient earthing through DIN foot and/or earth terminal
- OVR TN can be flat mounted on base or side
- OVR TN and OVR TNQ have colour coded terminals for quick and easy installation check
- OVR SL TN has ultra slim 7 mm width ideal for compact protection of large numbers of lines (e.g. process control installations)
- OVR SL TN includes two stage removable protection module with simple quick release mechanism allowing partial removal for easy line commissioning and maintenance as well as full removal for protection replacement
- OVR SL TN includes optional LED status indication (add L suffix to part number - i.e. OVR SL TNL)

Application

Connect in series with the signal line either near where it enters or leaves the building or close to the equipment being protected ensuring it is very close to the system's earth star point. Install protectors either within an existing cabinet/cubicle or in a separate enclosure.

Accessories

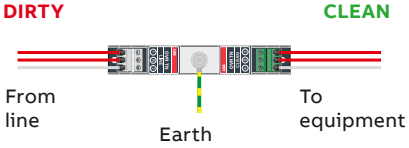
Replacement module for OVR SL TN:
OVR SLTN/M
Standard module replacement

Combined Mounting/Earthing kits for OVR RS485:
OVR CME 4 For up to 4 x OVR TN
OVR CME 8 For up to 8 x OVR TN
OVR CME 16 For up to 16 x OVR TN
OVR CME 32 For up to 32 x OVR TN

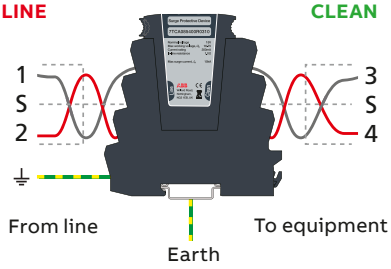
If protectors cannot be incorporated within an existing panel or enclosure, OVR WBX enclosures are available for up to 4, 8, 16 or 32 protectors and their associated OVR CME kit.

Weatherproof enclosure:
OVR WBX SLQ (OVR SLTN and OVR TNQ)

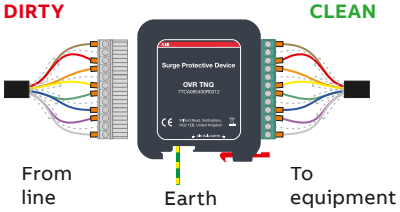
OVR TN installed in series



OVR SL TN installed in series



OVR TNQ installed in series (in-line)



NOTE: The OVR KT Series is also available for telecommunications application using LSA-PLUS disconnection modules. Plug-in solutions are also available for RJ11 connections (see OVR TN RJ11 Series).

Protection and safety

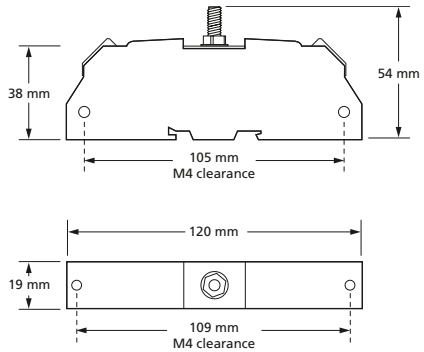
Data & signal protection

OVR TN, TNQ & SL TN Series

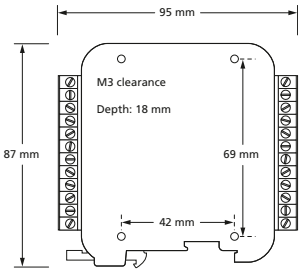
OVR TN, TNQ & SL TN Series - Technical specification

Electrical specification		OVR TN	OVR SL TN, OVR SL TNL	OVR TNQ
ABB order code		7TCA085400R0345	7TCA085400R0323, 7TCA085400R0418	7TCA085400R0344
Nominal voltage [1]		–		
Maximum working voltage Uc (RMS/DC) [2]		–/296 V		
Current rating (signal)		300 mA		
In-line resistance (per line ±10%)		4.4 Ω		
Bandwidth (-3 dB 50 Ω system)		20 MHz		
Transient specification		**OVR TN**	**OVR SL TN , OVR SL TNL**	**OVR TNQ**
Let-through voltage (all conductors) [3] Up				
C2 test 4 kV 1.2/50 µs, 2 kA 8/20 µs to BS EN/EN/IEC 61643-21		395 V		
C1 test 1 kV, 1.2/50 µs, 0.5 kA 8/20 µs to BS EN/EN/IEC 61643-21		390 V		
B2 test 4 kV 10/700 µs to BS EN/EN/IEC 61643-21		298 V		
5 kV, 10/700 µs [4]		300 V		
Maximum surge current				
D1 test 10/350 µs to BS EN/EN/IEC 61643-21	– Per signal wire	2.5 kA	1.25 kA	2.5 kA
	– Per pair	5 kA	2.5 kA	5 kA
8/20 µs to ITU-T K.45:2003, IEEE C62.41.2:2002	– Per signal wire	10 kA		
	– Per pair	20 kA		
Mechanical specification		**OVR TN**	**OVR SL TN , OVR SL TNL**	**OVR TNQ**
Temperature range		-40 to +80 °C		
Connection type		Screw terminal - max. torque 0.5 Nm	Screw terminal - max. torque 0.8 N	Pluggable 12 way screw terminal
Conductor size (stranded)		2.5 mm^2	4 mm^2	2.5 mm^2
Earth connection		M6 stud	Via DIN rail or 4 mm^2 earth terminal - max. torque 0.8 Nm	Via DIN rail or M5 threaded hole in base of unit
Case Material		FR Polymer UL-94 V-0		
Weight	– Unit	0.08 kg		0.1 kg
	– Packaged (per 10)	0.85 kg		1.3 kg
Dimensions		See diagram below		

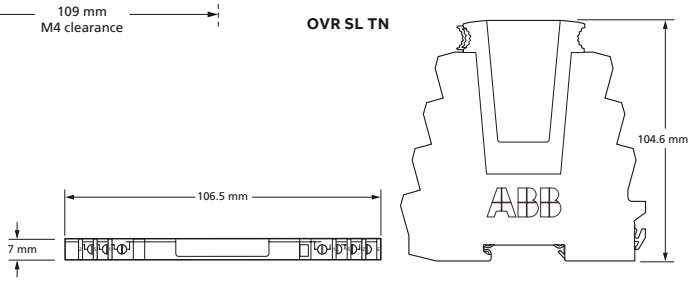
OVR TN



OVR TNQ



OVR SL TN



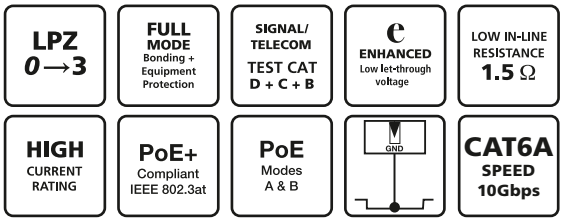
[1] Nominal voltage (RMS/DC or AC peak) measured at < 10 µA
[2] Maximum working voltage (RMS/DC or AC peak) measured at < 5 mA
[3] The maximum transient voltage let-through of the protector throughout the test (±10%), line to line & line to earth, both polarities. Response time < 10 ns
[4] Test to IEC 61000-4-5:2006, ITU-T (formerly CCITT) K.20, K.21 and K.45,Telcordia GR-1089-CORE, Issue 2:2002, ANSI TIA/EIA/IS-968-A:2002 (formerly FCC Part 68)

5

Protection and safety

Telecom & computer line protection
OVR Cat-5 & Cat-6 Series





Combined Category D, C, B tested protector (to BS EN 61643) suitable to protect twisted pair Ethernet networks, including Power over Ethernet (PoE), with RJ45 connections. For use at boundaries up to LPZ 0 to protect against flashover (typically the service entrance location) through to LPZ 3 to protect sensitive electronic equipment.

Features & benefits

- Suitable for systems signalling on up to eight wires of either shielded or unshielded twisted pair cable
- Very low let-through voltage (enhanced protection to IEC/BS EN 62305) between all lines - Full Mode design capable of handling partial lightning currents as well as allowing continual operation of protected equipment
- Repeated protection in lightning intense environments
- Unlike some competing devices, the ethernet SPDs provide effective protection without impairing the system's normal operation
- Low capacitance circuitry prevents the start-up signal
- degradation associated with other types of network protector
- Low in-line resistance minimizes unnecessary reductions in signal strength to maximize signalling distance
- Sturdy ABS housing with convenient holes for flat mounting, or vertically via TS35 'Top Hat' DIN rail
- Substantial earth connection to enable effective earthing
- Will protect all PoE powering modes A and B.

Application

Use these protectors on network cables that travel between buildings to prevent damage to equipment, e.g. computers, servers, repeaters and hubs. Suitable for computer networks up to Cat-6A cabling.

- To protect up to 100baseT networks with Cat-5/Cat-5e cabling use OVR Cat-5e
- To protect up to 1000baseT/10GbaseT networks with Cat-6/Cat-6A cabling use OVR Cat-6
- To protect up to 100baseT Power over Ethernet (PoE) networks with Cat-5/Cat-5e use OVR Cat-5e/PoE
- To protect up to 1000baseT/10GbaseT Power over Ethernet (PoE) networks with Cat-6/Cat-6A cabling use OVR Cat-6/PoE

For further application information, see separate Application Note OVR AN004 (contact us for a copy).

Installation

Connect in series with the network cable, either:

- Near to where it enters or leaves the building, or
- As it enters the network hub, or
- Close to the equipment being protected

This should be close to the system's earth star point (to enable a good connection to earth).

Plug-in series connection

Accessories

OVR CAT5e/UTP-1
1 metre cable with unshielded RJ45 connections

OVR CAT6/STP-2
2 metre screened cable with shielded RJ45 connections



TECHNICAL NOTE: The interfaces used in Ethernet networks incorporate an isolation transformer which gives these systems an in-built immunity to transients between line and earth of 1,500 Volts or more.

NOTE: To protect datacomms systems based on twisted pairs, use the OVR D, E or H Series. Local protection for networked equipment is also available.

Protection and safety

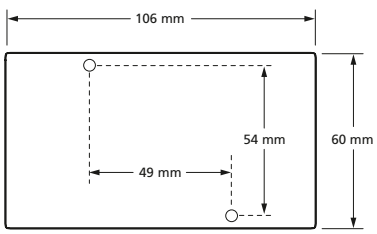
Telecom & computer line protection

OVR Cat-5 & Cat-6 Series

OVR Cat-5 & Cat-6 Series - Technical specification

Electrical Specification		OVR Cat-5e	OVR Cat-5e/PoE	OVR Cat-6	OVR Cat-6/PoE
ABB order code		7TCA085400R0289	7TCA085400R0290	7TCA085400R0291	7TCA085400R0292
Maximum working voltage Uc [1]	– data [2]	5 V			
	– power [3]	–	58 V	–	58 V
Current rating		300 mA	600 mA [4]	300 mA	600 mA [4]
In-line resistance (per line ±25%)	– data [2]	1.5 Ω			
	– power	–	1.5 Ω	–	–
Maximum data rate		100 Mbps	100 Mbps	1000 Mbps	1000 Mbps
Networking standards		10/100baseT	10/100baseT	10/100/1000/ 10GbaseT	10/100/1000/ 10GbaseT
		TIA Cat-5e	TIA Cat-5/PoE	TIA Cat-6	TIA Cat-6
		IEEE 802.3i	IEEE 802.3i	IEEE 802.3i	IEEE 802.3i
		IEEE 802.3u	IEEE 802.3u	IEEE 802.3u	IEEE 802.3u
		–	IEEE 802.3af	IEEE 802.3ab	IEEE 802.3ab
		–	IEEE 802.3at	IEEE 802.3an	IEEE 802.3an
		–	–	–	IEEE 802.3af
		–	–	–	IEEE 802.3at
Transient specification		**OVR Cat-5e**	**OVR Cat-5e/PoE**	**OVR Cat-6**	**OVR Cat-6/PoE**
Let-through voltage (all conductors) [5] Up					
C2 test 4 kV 1.2/50 µs, 2 kA 8/20 µs to BS EN/EN/IEC 61643-21	– line to line	120 V	120 V/116 V [8]	120 V	120 V/116 V [8]
	– line to earth [6]	700 V		900 V	900 V
C3 test 1kV/µs, 100A 10/1000 µs to BS EN/EN/IEC 61643-21	– line to line	-	-	15 V	15 V
	– pair to pair (PoE)	-	-	-	90 V
C1 test 1 kV, 1.2/50 µs, 0.5 kA 8/20 µs to BS EN/EN/IEC 61643-21	– line to line	74 V	74 V/95 V [8]	74 V	74 V/95 V [8]
	– line to earth [6]	600 V			
B2 test 1kV 10/700µs, 25A 5/320µs to BS EN/EN/IEC 61643-21	– line to line	-	-	9 V	9 V
	– pair to pair (PoE)	-	-	-	85 V
B2 test 4 kV 10/700 µs to BS EN/EN/IEC 61643-21	– line to line	21 V	21 V/87 V [8]	21 V	21 V/87 V [8]
	– line to earth [6]	550 V		700 V	700 V
5 kV, 10/700 µs [7]	– line to line	25 V	25 V/90 V [8]	25 V	25 V/90 V [8]
	– line to earth [6]	600 V			
Maximum surge current [9]					
D1 test 10/350 µs to BS EN/EN/IEC 61643-21	– line to line	1 kA	-	-	-
	– line to earth [6]	-	-	1 kA	1 kA
8/20 µs to ITU-T K.45:2018, IEEE C62.41.2:2002	– line to line	-	-	150 A	150 A
	– line to earth [6]	10 kA		10 kA	10 kA
Mechanical specification		**OVR Cat-5e, OVR Cat-5e/PoE**		**OVR Cat-6, OVR Cat-6/PoE**	
Temperature range		-40 to +80 °C		-40 to +80 °C	
Connection type		RJ45 sockets		RJ45 sockets	
Cable (supplied)		0.5 m Cat-5e UTP patch lead		0.5 m Cat-6 shielded patch lead[8]	
Earth connection		M4/DIN rail		M4/DIN rail	
Case Material		FR Polymer UL-94 V-0		FR Polymer UL-94 V-0	
Weight	– Unit	0.15 kg		0.15 kg	
	– Packaged	0.2 kg			
Dimensions		See diagram below		See diagram below	

[1] Maximum working voltage (DC or AC peak) measured at 1 mA leakage
[2] Data pairs 1/2 and 3/6 are protected as standard. Pairs 4/5 and 7/8 are also protected on Cat-6 barriers
[3] PoE protectors transmit power Mode A and Mode B power
[4] Based on 30W of transmitted PSE power, to IEEE 802.3at.
[5] The maximum transient voltage let-through of the protector throughout the test (±10%), line to line & line to earth. Response time <10 ns (on all protected pairs)
[6] The interfaces used in network systems incorporate an isolation transformer that inherently provides an inbuilt immunity to transients between line and earth of 1,500 Volts or more
[7] Test to IEC 61000-4-5:2014, ITU-T (formerly CCITT) K.20, K.21 and K.45,Telcordia GR-1089-CORE, Issue 6:2011, ANSI TIA/EIA/ IS-968-A:2005 (formerly FCC Part 68).
[8] The first number is for the data pair, with the second number for the power pair
[9] The installation and connectors may limit the capability of the protector



Depth: 24 mm

Fixing centres
49 x 54 mm,
M3 clearance

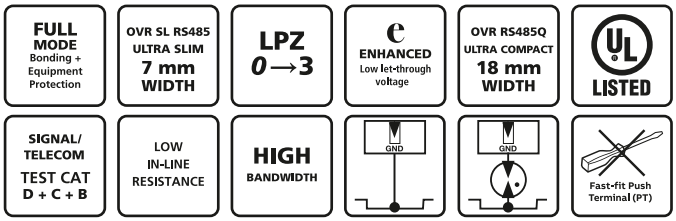
5

Protection and safety

Data & signal protection

OVR RS485, RS485Q & SL RS485 Series





Combined Category D, C, B tested (to IEC/EN 61643) Surge Protection Device (SPD) specifically designed for RS 485 and Fieldbus applications, such as Profibus DP. For use at boundaries up to LPZ 0 protect against flashover (typically the service entrance location) through to LPZ 3. Available as standard OVR RS485 format, or compact OVR RS485Q and Slim Line OVR SL RS485 versions for installations where a high number of lines require protection.

Features & benefits

- Very low let-through voltage (enhanced protection to IEC/BS EN 62305) between all lines - Full Mode protection • Full Mode design capable of handling partial lightning currents as well as allowing continual operation of protected equipment
- Repeated protection in lightning intense environments
- 45 MHz bandwidth greatly exceeds 12 Mbps maximum speeds
- Low in-line resistance minimizes reductions in signal strength
- Suitable for earthed or isolated screen systems
- Built-in DIN rail foot for simple mounting to top hat DIN rails
- Convenient earthing through DIN foot and/or earth terminal
- Connect screen connection ‘S’ as the 0V ground on RS485 systems
- OVR RS485 can be flat mounted on base or side
- OVR RS485 and OVR RS485Q have colour coded terminals for quick and easy installation check
- OVR SL RS485 has ultra slim 7 mm width ideal for compact protection of large numbers of lines (e.g. process control installations)
- OVR SL RS485 includes two stage removable protection module with simple quick release mechanism allowing partial removal for easy line commissioning and maintenance as well as full removal for protection replacement
- OVR SL RS485 includes optional LED status indication. Add L suffix to part number - i.e. OVR SL RS485L
- OVR RS485Q and OVR RS485Q/PT have UL497B approval under file E240341

Application

Connect in series with the signal line either near where it enters or leaves the building or close to the equipment being protected ensuring it is very close to the system’s earth star point. Install SPDs either within an existing cabinet/cubicle or in a separate enclosure.

Accessories

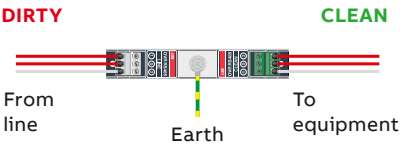
Replacement module for OVR SL RS485:
OVR SLRS485/M
Standard module replacement
OVR SLRS485/B
Base replacement

Combined Mounting/Earthing kits for OVR RS485:
OVR CME 4 For up to 4 x OVR RS485
OVR CME 8 For up to 8 x OVR RS485
OVR CME 16 For up to 16 x OVR RS485
OVR CME 32 For up to 32 x OVR RS485

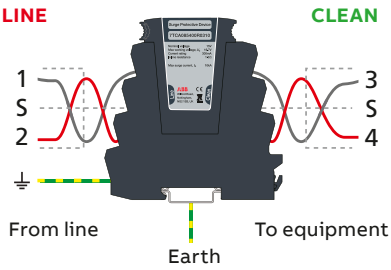
If protectors cannot be incorporated within an existing panel or enclosure, OVR WBX enclosures are available for up to 4, 8, 16 or 32 protectors and their associated OVR CME kit.

Weatherproof enclosure:
OVR WBX SLQ (OVR SL RS485 and OVR RS485Q)

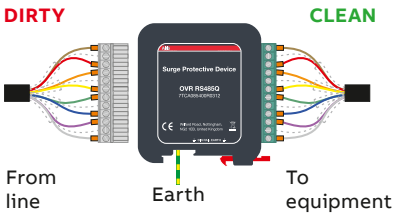
OVR RS485 installed in series



OVR SL RS485 installed in series



OVR RS485Q installed in series (in-line)



NOTE: The OVR SL ‘Slim Line’ Series is also available for protection of 3-wire and RTD applications (OVR SL/3W & OVR SL RTD).
The OVR SL X Series has approvals for use in hazardous areas.

Protection and safety

Data & signal protection

OVR RS485, RS485Q & SL RS485 Series

OVR Q Series - Technical specification

Electrical specification		OVR RS485 Series	OVR SL RS485 Series	OVR RS485Q Series
Nominal voltage[1]		15 V		
Maximum working voltage *Uc* (RMS/DC)[2]		11 V / 16.7 V		
Current rating (signal)		300 mA		
In-line resistance (per line ±10%)		1 Ω		
Bandwidth (-3 dB 50 Ω system)		45 MHz		
Transient specification				
Let-through voltage (all conductors)[3] *Up*				
C2 test 4 kV 1.2/50 µs, 2 kA 8/20 µs to BS EN/EN/IEC 61643-21		55.0 V		
C1 test 1 kV, 1.2/50 µs, 0.5 kA 8/20 µs to BS EN/EN/IEC 61643-21		42.0 V		
B2 test 4 kV 10/700 µs to BS EN/EN/IEC 61643-21		27.2 V		
5 kV, 10/700 µs[4]		28.2 V		
Maximum surge current				
D1 test 10/350 µs to BS EN/EN/IEC 61643-21:	– Per signal wire 2.5 kA – Per pair	2.5 kA 5 kA	1.25 kA 2.5 kA	2.5 kA 5 kA
8/20 µs to ITU-T K.45:2003, IEEE C62.41.2:2002:	– Per signal wire – Per pair	10 kA 20 kA		
Mechanical specification				
Temperature range		-40 to +80 ºC		
Connection type		Screw terminal - max. torque 0.5 Nm	Screw terminal - max. torque 0.8 N	Pluggable 12 way screw terminal /PT version: Pluggable 12 way screwless Push Terminal
Conductor size (stranded)		2.5 mm²	4 mm²	2.5 mm²
Earth connection		M6 stud	Via DIN rail or 4 mm² earth terminal - max. torque 0.8 Nm	Via DIN rail or M5 threaded hole in base of unit
Case Material		FR Polymer UL-94 V-0		
Weight: – Unit		0.08 kg	0.08 kg	0.1 kg
Dimensions		See diagrams below		

[1] Nominal voltage (RMS/DC or AC peak) measured at < 10 µA
[2] Maximum working voltage (RMS/DC or AC peak) measured at < 5 mA
[3] The maximum transient voltage let-through of the protector throughout the test (±10%), line to line & line to earth, both polarities. Response time < 10 ns
[4] Test to IEC 61000-4-5:2006, ITU-T (formerly CCITT) K.20, K.21 and K.45,Telcordia GR-1089-CORE, Issue 2:2002, ANSI TIA/EIA/IS-968-A:2002 (formerly FCC Part 68)

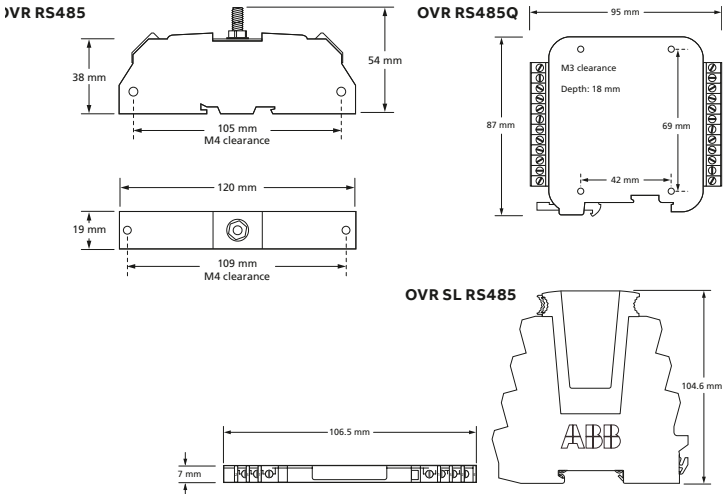


ABB order codes

Part	ABB order code	Part	ABB order code	Part	ABB order code
OVR RS485	7TCA085400R0311	**OVR RS485Q(UL)**	7TCA085400R0572	**OVR CME8**	7TCA085400R0415
OVR SLRS485/B	7TCA085400R0316	**OVR RS485Q/PT(UL)**	7TCA085400R0579	**OVR CME32**	7TCA085410R0046
OVR SLRS485	7TCA085400R0310	**OVR SLRS485/M**	7TCA085400R0317	**OVR WBXSLQ**	7TCA085400R0326
OVR SLRS485L	7TCA085400R0417	**OVR SLRS485L/M**	7TCA085400R0470	**OVR WBXSLQ/G**	7TCA085400R0327
OVR SLRS485(UL)	7TCA085400R0551	**OVR SLRS485L/M(UL)**	7TCA085400R0600	**WBX 4**	7TCA085410R0027
OVR SLRS485L(UL)	7TCA085400R0552	**OVR CME4**	7TCA085400R0414	**WBX 8**	7TCA085410R0030
OVR RS485Q	7TCA085400R0312	**OVR CME16**	7TCA085410R0045	**WBX 16/2/G**	7TCA085410R0020

Protection and safety
Specific systems protection
OVR RF Series



FULL MODE Bonding + Equipment Protection

LPZ 0→3

ENHANCED Low let-through voltage

SIGNAL/ TELECOM TEST CAT D + C + B

HIGH BANDWIDTH

Combined Category D, C, B tested protector (to BS EN 61643) suitable for RF systems using coaxial cables at frequencies between DC and 2.7 GHz and where DC power is present. Suitable for RF systems with power up to 1.9 kW. For use at boundaries up to LPZ 0 to protect against flashover (typically the service entrance location) through to LPZ 3 to protect sensitive electronic equipment.

Features & benefits

- Very low let-through voltage (enhanced protection to IEC/BS EN 62305) between all lines - Full Mode protection
- Full Mode design capable of handling partial lightning currents as well as allowing continual operation of protected equipment
- Repeated protection in lightning intense environments
- Wide bandwidth means a single product is suitable for a range of applications
- Very low attenuation and near unity VSWR over a wide range of frequencies ensure the protectors do not impair system performance
- Available with N, 7/16 DIN and BNC connectors
- Easily mounted and earthed via fixtures on the base of the unit that accept M3 and M5 screws or via mounting brackets
- Additional mounting plates give increased flexibility
- Robust aluminium housing

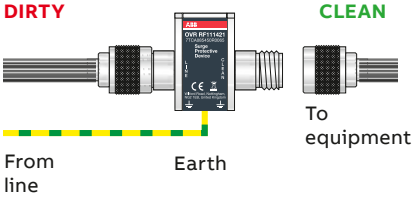
Application

Use on coaxial cables to protect RF transmitter and receiver systems, including electronics located at the antenna or dish. Typical examples include cell sites, military communications, satellite earth stations, pager systems and emergency services communications systems.

Installation

In a building, connect in series with the coaxial cable near where it enters or leaves the structure, or close to the equipment being protected. This should be as close as possible to the system's earth star point (to enable a good connection to earth). On a mast, connect in series with the coaxial cable near the antenna/dish being protected. Install in a radio communications room, an existing cabinet or a suitable enclosure.

OVR RF 111421 with N female connectors installed in series



Accessories

OVR RF BK1 Straight mounting plates
OVR RF BK2 90° angled mounting plates
OVR RF BK3 Bulkhead through mounting plate (single)
OVR RF BK4 Bulkhead through mounting plate (for 4 products)
OVR RF GDT-4 Replacement gas discharge tube

NOTE: These protectors are based on a continuous transmission line with a GDT connected between this line and screen/earth, and are suited for applications where DC is required to pass to the equipment. OVR CCTV/B and OVR CCTV/T are suitable for use on coaxial (or twisted pair) CCTV lines.
For coaxial CATV lines, use the OVR CATV/F.

Protection and safety
Specific systems protection
OVR RF Series

OVR RF Series - Technical specification

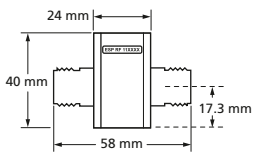
Electrical specification		OVR RF 111421	OVR RF AA1421	OVR RF 441421
Gas Discharge Tube voltage		350 V		
Maximum working voltage Uc (RMS)		200 V		
Characteristic impedance		50 Ω		
Capacitance (@ 1 MHz)		< 5 pF		
Bandwidth		DC-2.7 GHz		
Voltage standing wave ratio		≤ 1.1		
Insertion loss over bandwidth		≤ 0.1 dB		
Maximum power [1]		650 W		
Transient specification		**OVR RF 111421**	**OVR RF AA1421**	**OVR RF 441421**
Let-through voltage (all conductors) [2] Up				
C2 test 4 kV 1.2/50 µs, 2 kA 8/20 µs to BS EN/EN/IEC 61643-21		< 800 V		
C1 test 1 kV 1.2/50 µs, 0.5 kA 8/20 µs to BS EN/EN/IEC 61643-21		< 650 V		
B2 test 4 kV 10/700 µs to BS EN/EN/IEC 61643-21		< 550 V		
5 kV, 10/700 µs [3]		< 580 V		
Maximum surge current [4]				
D1 test 10/350 µs to BS EN/EN/IEC 61643-21		2.5 kA		
8/20 µs to ITU-T K.45:2003, IEEE C62.41.2:2002		20 kA		
Mechanical specification		**OVR RF 111421**	**OVR RF AA1421**	**OVR RF 441421**
ABB order code		7TCA085450R0065	7TCA085450R0063	7TCA085450R0066
Temperature range		-40 to +80 °C		
Connection type		N female	7/16 DIN female	BNC female
Conductor size (stranded)		Via mounting fixtures		
Case Material		Aluminium body, nickel plated. Brass connectors, white bronze plated		
Weight	– Unit	120 g	190 g	90 g
	– Packaged	140 g	210 g	110 g
Dimensions		See diagram below		

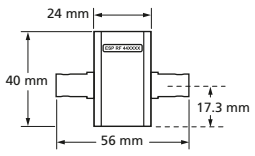
OVR RF BK1 (ABB order code: 7TCA085400R0416)
Straight mounting bracket, 53 x 26.3 x 3 mm
2 x M4 clearance mounting holes, 16.3 mm apart

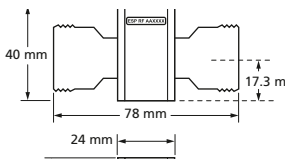
OVR RF BK2 (ABB order code: 7TCA085400R0064)
90° mounting bracket, 33 x 26.3 x 3 mm, 20 x 26.3 x 3 mm
2 x M4 clearance mounting holes, 16.3 mm apart, 14 mm from fold line

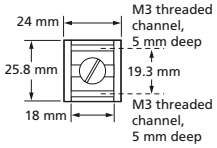
OVR RF BK3 (ABB order code: 7TCA085400R0412)
90° mounting bracket, 50 x 24 x 1.5 mm, 60 x 24 x 1.5 mm
2 x M5 clearance mounting holes, 40 mm apart

OVR RF BK4 (ABB order code: 7TCA085400R0413)
90° quad mounting bracket, 50 x 24 x 1.5 mm, 210 x 24 x 1.5 mm
5 x M5 clearance mounting holes, various spacings
Mounting brackets supplied with screws for fixing to protector









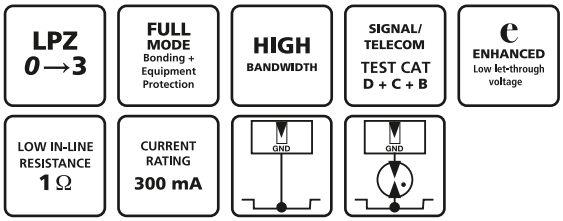
[1] Power levels have been de-rated to allow for real life 'worst case' conditions, calculated with VSWR as 2:1
[2] The maximum transient voltage let-through of the protector throughout the test (±10%) (±10%). Response time < 10 ns. This let-through voltage represents a deviation from the applied signal voltage, present at the time of the test
[3] Test to IEC 61000-4-5:2006, ITU-T (formerly CCITT) K.20, K.21 and K.45, Telcordia GR-1089-CORE, Issue 2:2002, ANSI TIA/EIA/IS-968-A:2002 (formerly FCC Part 68)
[4] The installation and connections external to the protector may limit the capability of the protector

5

Protection and safety

Specific systems protection
OVR CCTV Series





Combined Category D, C, B tested protector (to BS EN 61643) suitable for coaxial CCTV cables with BNC connectors (OVR CCTV/B) or twisted pair CCTV lines (OVR CCTV/T) on systems with either an earthed or an isolated screen. Not suitable for use on broadcast, satellite or cable TV systems. For use at boundaries up to LPZ 0 to protect against flashover (typically the service entrance location) through to LPZ 3 to protect sensitive electronic equipment.

Features & benefits

- Very low let-through voltage (enhanced protection to IEC/BS EN 62305) between all lines - Full Mode protection
- Full Mode design capable of handling partial lightning currents as well as allowing continual operation of protected equipment
- Repeated protection in lightning intense environments
- 100 MHz bandwidth prevents the degradation of high frequency signals
- Low in-line resistance to minimize unnecessary reductions in signal strength and maximizes signalling distance
- Very low reflection coefficient/VSWR ensure that the protector doesn't disrupt system operations
- Suitable for either earthed or isolated screen systems
- Sturdy, conductive ABS housing for 2 way shielding - preventing emissions & providing signals with immunity from external interference
- Convenient holes for flat mounting on base or side
- Built-in DIN rail foot for easy installation on a top hat DIN rail
- OVR CCTV/T has colour coded terminals for a quick and easy installation check - grey for the dirty (line) end and green for the clean end
- Substantial earth stud to enable effective earthing
- Integral earthing plate for enhanced connection to earth via OVR CME kit

Application

Use these protectors on the video cable to outdoor CCTV cameras and central control and monitoring equipment.

Installation

Connect in series with the CCTV cable in a convenient place close to the equipment being protected. For outdoor CCTV cameras, protectors should be mounted in the junction box, or in a separate enclosure, close to the camera. Protect central control and monitoring equipment inside the building by installing protectors on all incoming or outgoing lines, either:

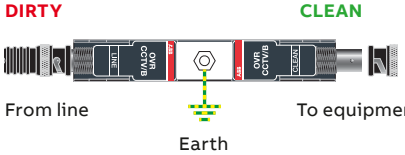
a) near where they enter or leave the building, or

b) close to the equipment being protected (or actually within its control panel).

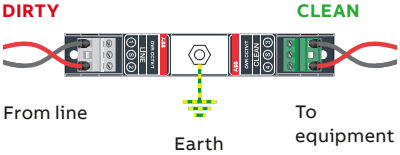
Accessories

When CCTV protectors are installed in groups, or alongside protectors for signal and mains power lines, these can be mounted and earthed simultaneously on a OVR CME kit. An OVR CME 4 will accommodate the video, telemetry and power protectors to a camera. If protectors cannot be incorporated within an existing panel or enclosure, OVR WBX enclosures are available for up to 4, 8, 16 or 32 protectors and their associated OVR CME kit. The OVR WBX 4/GS is a secure IP66 enclosure suitable for a OVR CME 4 and associated protectors.

Series connection for OVR CCTV/B



Series connection for OVR CCTV/T



NOTE: Camera telemetry or control lines should be protected with a suitable Lightning Barrier from the OVR D or E Series. Protectors for the power supply to individual cameras (e.g. OVR 240-16A) and the mains supply to the control room are available. For coaxial RF (OVR RF Series) cable protectors and CATV systems (OVR CATV/F) are also available.

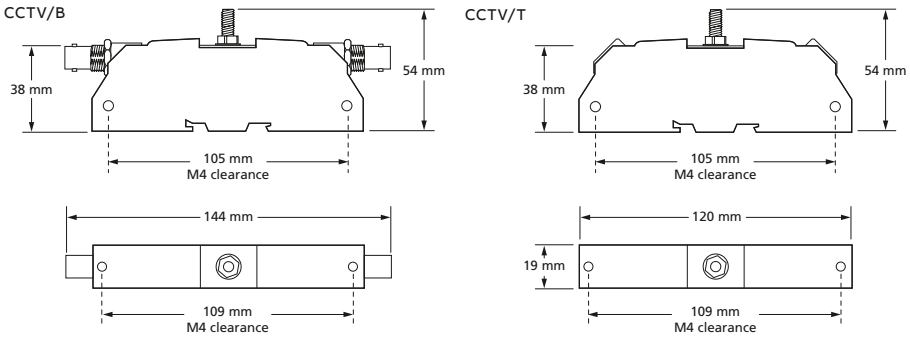
Protection and safety

Specific systems protection

OVR CCTV Series

OVR CCTV Series - Technical specification

Electrical specification		OVR CCTV/B	OVR CCTV/ B-15V	OVR CCTV/ B-30V	OVR CCTV/ B-50V	OVR CCTV/T	OVR CCTV/T-15V	OVR CCTV/ T-30V	OVR CCTV/ T-50V
ABB order code		7TCA085400R0296	7TCA085400R0297	7TCA085400R0299	7TCA085400R0300	7TCA085400R0301	7TCA085400R0302	7TCA085400R0298	7TCA085400R0303
Nominal voltage [1] (peak-peak)		1 V				2 V			
Maximum working voltage Uc [2] (peak)		7.79 V	16.7 V	36.7 V	56.7 V	7.79 V	16.7 V	36.7 V	56.7 V
Current rating (signal)		300 mA							
In-line resistance (±10%)		1 Ω inserted in coax inner			1 Ω per line				
Bandwidth (-3 dB 75 Ω system) [3]		> 100 MHz							
Voltage standing wave ratio		< 1.2:1							
Transient specification		**OVR CCTV/B**	**OVR CCTV/ B-15V**	**OVR CCTV/ B-30V**	**OVR CCTV/ B-50V**	**OVR CCTV/T**	**OVR CCTV/T-15V**	**OVR CCTV/ T-30V**	**OVR CCTV/ T-50V**
Let-through voltage (all conductors)(4) Up									
C2 test 4 kV 1.2/50 µs, 2 kA 8/20 µs to BS EN/EN/IEC 61643-21		39.5 V	55.0 V	78.0 V	105.0 V	39.5 V	55.0 V	78.0 V	105.0 V
C1 test 1 kV 1.2/50 µs, 0.5 kA 8/20 µs to BS EN/EN/IEC 61643-21		26.0 V	42.0 V	66.5 V	93.5 V	26.0 V	42.0 V	66.5 V	93.5 V
B2 test 4 kV 10/700 µs to BS EN/EN/IEC 61643-21		16.0 V	27.2 V	47.5 V	73.6 V	16.0 V	27.2 V	47.5 V	73.6 V
5 kV, 10/700 µs [5]		17.0 V	28.2 V	49.5 V	76.2 V	17.0 V	28.2 V	49.5 V	76.2 V
Maximum surge current [6]									
D1 test 10/350 µs to BS EN/EN/IEC 61643-21	– Per signal wire	2.5 kA				2.5 kA			
	– Per pair	–				5 kA			
8/20 µs to ITU (formerly CCITT)	– Per signal wire	10 kA				10 kA			
	– Per pair	–				20 kA			
Mechanical specification		**OVR CCTV/B variants**				**OVR CCTV/T variants**			
Temperature range		-40 to +80 °C							
Connection type		Coaxial BNC female				Screw terminal			
Conductor size (stranded)		Not applicable				2.5 mm^2			
Earth connection		M6 stud							
Case Material		ABS UL94 V-0				ABS UL94 V-0			
Weight	– Unit	0.08 kg							
	– Packaged	0.9 kg							
Dimensions		See diagram below							



[1] Nominal voltage (DC or AC peak) measured at < 10 µA leakage
[2] Maximum working voltage (DC or AC peak) measured at 5 mA leakage
[3] Capacitance < 30 pF
[4] The maximum transient voltage let-through of the protector throughout the test (±10%), line to line & line to earth. Screen to earth let-through voltage will be up to 600 V (with 5 kV 10/700 test), when protector is configured for use with non-earthed or isolated screen systems. Response time < 10 ns
[5] Test to IEC 61000-4-5:2006, ITU-T (formerly CCITT) K.20, K.21 and K.45,Telcordia GR-1089-CORE, Issue 2:2002, ANSI TIA/EIA/IS-968-A:2002 (formerly FCC Part 68)
[6] The installation and connectors external to the protector may limit the capability of the protector

Protection and safety

Mains power protection

OVR 240-16A



FULL MODE Bonding + Equipment Protection

MAINS TEST TYPE 2 + 3

ENHANCED Low let-through voltage

LPZ 1→3

Combined Type 2 and 3 tested protector (to BS EN 61643) for use on low current (up to 16 A) single phase systems to protect connected electronic equipment from transient overvoltages on the mains supply, e.g. CCTV systems, fire/intruder alarm panels.

Features & benefits

- Very low let-through voltage (enhanced protection to IEC/BS EN 62305) between all sets of conductors (phase to neutral, phase to earth, neutral to earth - Full Mode protection) allowing continuous operation of equipment
- Repeated protection in lightning intense environments
- Compact size for easy incorporation in the protected system
- Removable DIN rail foot for simple clip-on mounting to top hat DIN rails
- Colour coded terminals give a quick and easy installation check - grey for the dirty (line) end and green for the clean end
- Robust housing and substantial earth stud fixing holes ready for flat mounting
- Maintenance free

Application

Use these protectors on low current mains power supplies, e.g. CCTV cameras, alarm panels and telemetry equipment.

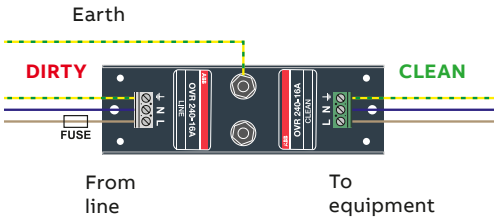
Installation

Connect in-line with the power supply usually either within the equipment panel (or for CCTV cameras, in an enclosure close by), or on the fused connection that supplies equipment. To protect equipment inside a building from transients entering on an outgoing feed (e.g. to CCTV cameras or to site lighting) the protector should be installed as close to where the cable leaves the building as possible. Protectors should be installed either within an existing cabinet/cubicle or in a separate enclosure.

Accessories

If several OVR 240-16A protectors are to be installed together, or if one is in use alongside OVR SPDs for video or signal lines, these can be simultaneously mounted and earthed on a OVR CME kit and housed in a suitable OVR WBX enclosure.

Connect in-line on supplies fused up to 16 A. Note how the protector can also be earthed from its earth stud.



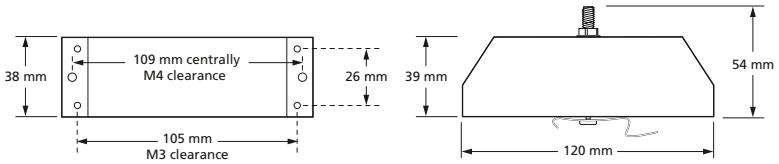
Protection and safety

Mains power protection

OVR 240-16A

OVR 240-16A - Technical specification

Electrical specification		**OVR 240-16A**
ABB order code		7TCA085460R0361
Nominal voltage - Phase-Neutral Uo (RMS)		240 V
Maximum voltage - Phase-Neutral Uc (RMS)		280 V
Working voltage (RMS)		200-280 V
Frequency range		47-63 Hz
Current rating (supply)		16 A or less
Max. back-up fuse (see installation instructions)		≤ 16 A
Leakage current (to earth)		< 0.5 mA
Transient specification		**OVR 240-16A**
Type 2 (BS EN/EN), Class II (IEC)		
Nominal discharge current 8/20 µs (per mode) In		5 kA
Let-through voltage Up at In [1]		750 V
Maximum discharge current Imax (per mode) [2]		10 kA
Type 3 (BS EN/EN), Class III (IEC)		
Let-through voltage at Uoc of 6 kV 1.2/50 µs and Isc of 3 kA 8/20 µs (per mode) [1, 3]		600 V
Electrical specification		OVR 240-16A
Temperature range		-40 to +80 °C
Connection type		Screw terminal - maximum torque 0.5 Nm
Conductor size (stranded)		4 mm²
Earth connection		Via M6 stud or earth terminal -maximum torque 0.5 Nm
Degree of protection (IEC 60529)		IP20
Case material		Steel
Weight	– Unit	0.23 kg
	– Packaged	0.25 kg
Dimensions		See diagrams below



[1] The maximum transient voltage let-through of the protector throughout the test (±10%), phase to neutral, phase to earth and neutral to earth

[2] The electrical system, external to the unit, may constrain the actual current rating achieved in a particular installation

[3] Combination wave test within IEC/BS EN 61643, IEEE C62.41-2002 Location Cats C1 & B3, SS 555:2010, AS/NZS 1768-2007, UL 1449 mains wire-in

Protection and safety

Specific systems protection

OVR TV Series



LPZ 0→3 | FULL MODE Bonding + Equipment Protection | SIGNAL/ TELECOM TEST CAT D + C + B | ENHANCED Low let-through voltage | HIGH BANDWIDTH

Combined Category D, C, B tested protector (to BS EN 61643) suitable to protect Cable, Terrestrial and Satellite TV systems. For use on lines running within buildings at boundaries up to LPZ 0 to through to LPZ 3 to protect sensitive electronic equipment.

Features & benefits

- Very low let-through voltage (enhanced protection to IEC/BS EN 62305) between all lines - Full Mode protection
- Low attenuation and high return loss over a wide range of frequencies ensures the protectors do not impair system performance
- Substantial earth termination
- Supplied ready for flat mounting
- Strong metal housing

Application

Use to protect analogue and digital Cable, Terrestrial and Satellite TV installations. OVR CATV/F, OVR MATV/F, OVR SMATV/F and OVR TV/F are suitable for systems using F connectors. OVR TV/EURO is suitable for systems using EURO-TV connectors.

- For protecting terrestrial antenna feeds use OVR TV/F or OVR TV/EURO
- For protecting satellite feeds use OVR SMATV/F
- For protecting distributed combined TV feeds use OVR MATV/F
- For protecting cable TV feeds use OVR CATV/F

For further information on TV applications, see separate Application Note OVR AN006 (contact us for a copy).

Installation

Connect in series with the coaxial cable either near where it enters or leaves each building or close to equipment being protected.



NOTE: Protectors for coaxial (or twisted pair) CCTV Lines are available. For coaxial RF lines, use the OVR RF Series. Transients can also be conduced into TV systems via the mains power supplies - use suitable OVR mains protection.

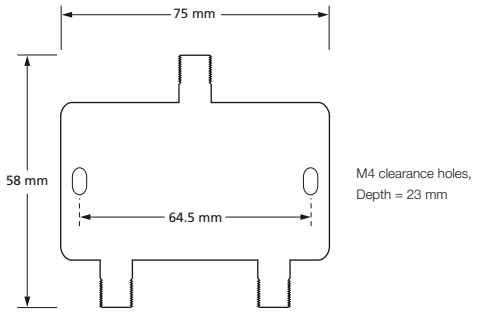
Protection and safety

Specific systems protection

OVR TV Series

OVR TV Series - Technical specification

Electrical specification		**OVR CATV/F**	**OVR MATV/F**	**OVR SMATV/F**	**OVR TV/F**	**OVR TV/EURO**
ABB order code		7TCA085400R0293	7TCA085400R0308	7TCA085400R0336	7TCA085400R0335	7TCA085400R0334
Maximum working voltage(1)		140 V	18.9 V	18.9 V	6.4 V	6.4
Maximum operating current		4 A	800 mA	800 mA	300 mA	300 mA
Characteristic impedance		75 Ω				
Bandwidth		5-860 MHz	5-3224 MHz	860-3224 MHz	5-860 MHz	5-860 MHz
Insertion loss	– 5-860 MHz	< 0.5 dB	< 0.3 dB	–	< 0.3 dB	< 0.3 dB
	– 860-2150 MHz	–	< 1.5 dB	< 1.5 dB	–	–
	– 2150-3224 MHz	–	< 2.2 dB	< 2.2 dB	–	–
Return loss (VSWR)	– 5-860 MHz	> 20 dB (< 1.2:1)	> 32 dB (< 1.05:1)	–	> 32 dB (< 1.05:1)	> 32 dB (< 1.05:1)
	– 860-2150 MHz	–	> 20 dB (< 1.2:1)	> 20 dB (< 1.2:1)	–	–
	– 2150-3224 MHz	–	< 2.2 dB	< 2.2 dB	–	–
Transient specification		**OVR CATV/F**	**OVR MATV/F**	**OVR SMATV/F**	**OVR TV/F**	**OVR TV/EURO**
Let-through voltage (all conductors)(2) Up						
C2 test 4 kV 1.2/50 µs, 2 kA 8/20 µs to BS EN/EN/IEC 61643-21		270 V	70 V	70 V	65 V	65 V
C1 test 1 kV 1.2/50 µs, 0.5 kA 8/20 µs to BS EN/EN/IEC 61643-21		265 V	60 V	60 V	50 V	50 V
B2 test 4 kV 10/700 µs to BS EN/EN/IEC 61643-21		245 V	45 V	45 V	30 V	30 V
5 kV, 10/700 µs(3)		250 V	50 V	50 V	35 V	35 V
Maximum surge current						
8/20 µs to ITU-T K.45:2003, IEEE C62.41.2:2002		3 kA				
D1 test 10/350 µs to BS EN/EN/IEC 61643-21		500 A	750 A	750 A	750 A	750 A
Mechanical specification		**OVR CATV/F**	**OVR MATV/F**	**OVR SMATV/F**	**OVR TV/F**	**OVR TV/EURO**
Temperature range		-40 to +80 ºC				
Connection type		F female				Euro-TV
Earth connection		~ 9.5 mm (3/8”) diameter earth stud				
Case Material		Diecast				
Weight	– Unit	0.14 kg				
	– Packaged	0.15 kg				
Dimensions		See diagram below				



(1) Maximum working voltage (DC or AC peak) measured at < 5 µA (OVR CATV/F) and < 50 mA (OVR MATV/F, OVR SMATV/F, OVR TV/EURO, OVR TV/F)

(2) The maximum transient voltage let-through of the protector throughout the test (±10%) line to earth. Response time < 10 ns

(3) Test to IEC 61000-4-5:2006, ITU-T (formerly CCITT) K.20, K.21 and K.45,Telcordia GR-1089-CORE, Issue 2:2002, ANSI TIA/EIA/IS-968-A:2002 (formerly FCC Part 68)

Protection and safety

Protector accessories

OVR WBX Series



OVR WBX Series

OVR WBX Series

A range of moisture and dirt resistant enclosures for the convenient installation of any OVR protector. For signalling applications they can be used with their associated OVR CME with grey base and either a see-through or grey (part number/G or/GS) lid.

Features & benefits

- Tough polycarbonate enclosures
- Weatherproof with IP resistance to dirt and water of IP56 or more
- Clear lid enables easy visual inspection of the protector's visual status indication (OVR WBX 4, OVR WBX 8)
- Grey lid for applications not needing regular protector inspection (OVR WBX 4/GS, OVR WBX 8/GS and OVR WBX 16/2/G)
- For external CCTV and other installations requiring added security the OVR WBX 4/GS and OVR WBX 8/GS are supplied with an opaque lid and special secure head screws (plus tool)
- Supplied complete with metal base (mounting) plate with pre-prepared mounting positions and fixing hardware for easy installation

Application

Use OVR WBX enclosures when your OVR protector(s) can't be installed within the existing equipment panel or enclosure and for added protection in damp and dirty environments.

Installation

The protector(s), or OVR CME kit, are mounted on the metal base plate, which in turn mounts in the enclosure.

OVR WBX Series - Technical specification

Enclosure part no.	**For use with following protectors**
OVR WBX 4 or the secure OVR WBX 4/GS	1 OVR CME 4 and associated protectors
OVR WBX 8 or the secure OVR WBX 8/GS	1 OVR CME 8 and associated protectors
OVR WBX 16/2/G	1 or 2 OVR CME 16 and associated protectors
OVR WBX SLQ or OVR WBX SLQ/G	Up to 6 x OVR**Q, or up to 15 x OVR SL**

		OVR WBX 4 OVR WBX 4/GS	**OVR WBX 8 OVR WBX 8/GS**	**OVR WBX 16/2/G**	**OVR WBX SLQ OVR WBX SLQ/G**
ABB Order Code		7TCA085410R0048 7TCA085410R0049	7TCA085410R0050 7TCA085410R0051	7TCA085410R0047	7TCA085400R0326 7TCA085400R0327
Weight	– Unit	0.9 kg	1.3 kg	6.4 kg	0.7 kg
	– Packaged	0.95 kg	1.35 kg	7.6 kg	1.0 kg
Dimensions					
Length	– Internal	246 mm	225 mm	460 mm	230 mm
	– External	255 mm	235 mm	474 mm	250 mm
Width	– Internal	171 mm	225 mm	380 mm	105 mm
	– External	180 mm	235 mm	396 mm	125 mm
Depth	– Internal	119 mm	100 mm	120 mm	110 mm
	– External	125 mm	117 mm	128 mm	125 mm
Fixing centres (mm)		240 x 165	215 x 215	380 x 310	235 x 110
IP rating		IP66	IP66	IP56	IP67
Temperature range		-15 to +75 °C	-15 to +75 °C	-25 to +60 °C	-40 to +80 °C
Flammability		UL 94 V2	UL 94 V2	UL 94 V0	UL 746C 5V

Protection and safety

Protector accessories

OVR CME Series



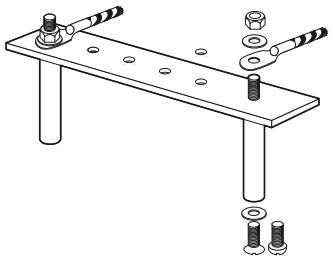
OVR CME Series

OVR CME Series

Enables groups of protectors to be simultaneously mounted and earthed via their earth stud. Suitable for installing protectors with one or two earth studs on their top face. Available with 4, 8, 16 and 32 mounting holes.

Features & benefits

- Enables quick and easy installation of protectors for added convenience
- Speedy installation of groups of protectors saves time and money
- Individual protectors can be changed without needing to remove others
- Sturdy construction
- Supplied with a choice of flat and round ended fixing screws to suit your application



Assembly of OVR CME kit
Earth connection (not supplied)

Application

Use OVR CME kits to simultaneously mount and earth groups of single and double earth stud protectors. Each single earth stud protector requires one OVR CME mounting position and each double earth stud protector requires two OVR CME mounting positions, this includes:

- High conductivity copper with electro-tin plating and nylon insulating pillars, for low impedance to earth

Single earth stud protectors which are:

– OVR 06D	– OVR 06E	– OVR 06H	– OVR TN
– OVR 15D	– OVR 15E	– OVR 15H	– OVR RTD
– OVR 30D	– OVR 30E	– OVR 30H	– OVR CCTV/B
– OVR 50D	– OVR 50E	– OVR 50H	– OVR CCTV/T
– OVR 110D	– OVR 110E	– OVR 110H	– OVR RS485

Double earth stud protectors which are:

– OVR 240-16A

Once you know how many OVR CME mounting positions you require choose a OVR CME kit to suit:

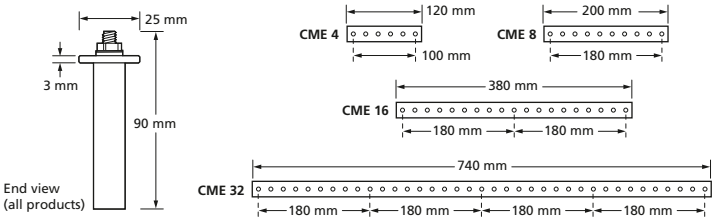
– OVR CME 4 has 4 mounting positions
– OVR CME 8 has 8 mounting positions
– OVR CME 16 has 16 mounting positions
– OVR CME 32 has 32 mounting positions

Accessories

Enclosures suitable for a OVR CME 4 and its associated protectors: **(OVR WBX 4/GS)**, **OVR CME 8** and protectors **(OVR WBX 8/GS)** or one or two **OVR CME 16** and protectors **(OVR WBX 16/2/G)**

Installation

The earth bar is supported by a series of mounting pillars (which are fixed to the cubicle or box base). Protectors are attached to the OVR CME's earth bar via their earth stud(s) and earthed with shared connections to earth. We suggest one earth connection per mounting pillar.



OVR CME Series - Technical specification

	OVR CME 4	OVR CME 8	OVR CME 16	OVR CME 32
ABB order code	7TCA085400R0414	7TCA085400R0415	7TCA085410R0045	7TCA085410R0046
Hole size	6.5 mm with 20 mm spacings			
Weight	0.1 kg	0.15 kg	0.3 kg	0.6 kg
Dimensions	See diagram opposite			

Protection and safety

Protector accessories

Accessories



Slim Line replacement base/module

Slim Line replacement base/module

Replacement: Base & module for the Slim Line Series of protectors

Part no. ABB Order Code	Description
Slim Line protector replacement base	
OVR SL/B 7TCA085400R0320	For use with standard and 4-20 mA Slim Line Series
OVR SL/I/B 7TCA085400R0321	Isolated screen version for use with standard and 4-20 mA Slim Line Series
OVR SLX/B 7TCA085400R0325	For use with Slim Line Intrinsically Safe (ATEX) Series
OVR SLX/I/B 7TCA085400R0374	Isolated screen version for use with Slim Line Intrinsically Safe (ATEX) Series
OVR SL/3W/B 7TCA085400R0319	For use with Slim Line 3-wire Series
OVR SLRTD/B 7TCA085400R0318	For use with Slim Line RTD Series
OVR SL RS485/B 7TCA085400R0316	For use with Slim Line RS485 Series
Slim Line protector replacement module	
OVR SLXX/M	For use with Slim Line Series - replace 'XX' with relevant voltage, i.e. 06, 15, 30, 50, 110
OVR SL06/M (7TCA085400R0375), OVR SL15/M (7TCA085400R0376), OVR SL30/M (7TCA085400R0377), OVR SL50/M (7TCA085400R0378), OVR SL110/M (7TCA085400R0379)	
OVR SLTN/M 7TCA085400R0324	For use with Slim Line TN Series
OVR SL15X/M 7TCA085400R0380	For use with Slim Line Instrinsically Safe (ATEX) Series, 15 V
OVR SL30X/M 7TCA085400R0381	For use with Slim Line Instrinsically Safe (ATEX) Series, 30 V
OVR SLRTD/M 7TCA085400R0322	For use with Slim Line RTD Series
OVR SLRS485/M 7TCA085400R0317	For use with Slim Line RS485 Series
Slim Line LED protector replacement module	
OVR SLXXL/M	For use with Slim Line LED Series - replace 'XX' with relevant voltage, i.e. 06, 15, 30, 50, 110
OVR SL06L/M (7TCA085400R0399), OVR SL15L/M (7TCA085400R0411), OVR SL30L/M (7TCA085400R0400), OVR SL50L/M (7TCA085400R0401), OVR SL110L/M (7TCA085400R0402)	
OVR SL30L/4-20/M 7TCA085400R0373	For use with Slim Line LED Series, 4-20 mA
OVR SL15XL/M 7TCA085400R0404	For use with Slim Line Instrinsically Safe (ATEX) LED Series, 15 V
OVR SL30XL/M 7TCA085400R0403	For use with Slim Line Instrinsically Safe (ATEX) LED Series, 30 V
OVR SLXX/3W/M	For use with Slim Line 3-wire LED Series – replace 'XX' with relevant voltage, i.e. 06, 15, 30, 50, 110
OVR SL06/3W/M (7TCA085400R0405), OVR SL15/3W/M (7TCA085400R0406), OVR SL30/3W/M (7TCA085400R0407), OVR SL50/3W/M (7TCA085400R0409), OVR SL110/3W/M (7TCA085400R0408)	
OVR SLTNL/M 7TCA085400R0468	For use with Slim Line TN LED Series



OVR RF mounting plates

OVR RF mounting plates

Use with: Any ESP RF protector to assist installation

Part no. ABB Order Code	Description
OVR RF BK1 7TCA085400R0416	Straight Mounting plate
OVR RF BK2 7TCA085450R0064	90º Mounting plate
OVR RF BK3 7TCA085400R0412	Bulkhead through mounting plate (single)
OVR RF BK4 7TCA085400R0413	Bulkhead through mounting plate (4 protectors)



OVR RF GDT-4

OVR RF GDT-4

Replacement: Gas Discharge Tubes for use with standard RF protectors

Part no. ABB Order Code	Description	Voltage
OVR RF GDT-4 7TCA085400R0309	Gas Discharge Tube	350 V



Cable assembly

Use with: OVR ISDN/RJ45-*/8 or OVR Cat-5e or OVR Cat-6 protector range

Part no. ABB Order Code	Description	Length
OVR CAT5e/UTP-1 7TCA085400R0294	Cable assembly for OVR Cat-5e with unshielded RJ45 connections	1 m
OVR CAT6/STP-2 7TCA085400R0295	Cable assembly for OVR Cat-6 with shielded RJ45 connections	2 m

Cable assembly with RJ45 connections for the OVR ISDN/RJ45-4/8 or OVR ISDN/RJ45-8/8 plug-in ISDN protectors for use if the standard 0.5 m cable is insufficient

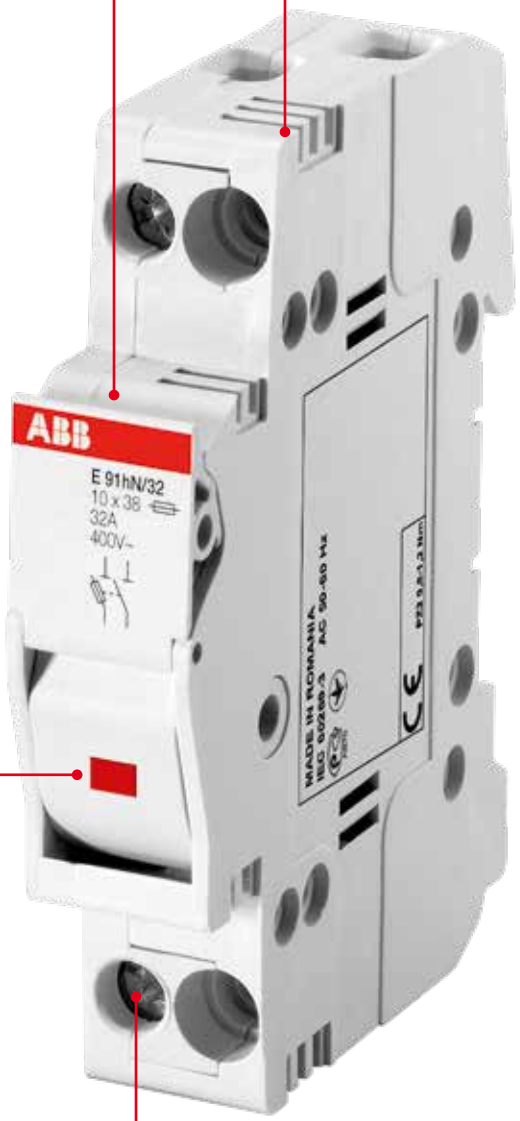
Notes

E 90. Uncompromising performance

A safe and smart range designed for quick, flexible and error-proof installation

Compactness
The compact dimensions enable to close the switchboard door even when the fuse holder is open, thus ensuring total safety during maintenance.

Reliability
Venting grooves and cooling chambers improve heat dissipation even in multiple-pole configurations.



Completeness
The fuse tripping can be easily displayed, thanks to the special blown fuse indicator light.

Universal use
Screw holes have increased diameter to accomodate insulated screwdrivers and electric screwdrivers.

E 90. Uncompromising performance

A safe and smart range designed for quick, flexible and error-proof installation



Fuseholder profile has been designed for maximum ease of use: the 90° flip hinge with ergonomic knob, makes the replacement of fuses easier even in small spaces or when wearing protective gloves.



The compact dimensions enable to close the switchboard door even when the fuseholder is open, thus ensuring total safety during maintenance.



With the Prozidriv PZ2 screws tightening can be performed by exerting less torque than conventional screws, and the same electric screwdriver can be used for all terminals. Moreover, the PS connection busbars facilitate the connecting operations, making the wiring both simple and safe and providing complete integration with S 200 and SN 201 System pro M compact® circuit-breakers.



Venting grooves and cooling chambers improve heat dissipation even in multiple-pole configurations.
The reduced operating temperature inside fuseholders ensures durability and reliability of the devices over time.

Protection and safety

E 90 fuse switch disconnectors



E 90

Technical features

Type			E 90/20	E 90/32
Rated current		A	20	32
Type of current			AC	
Fuse		[mm]	8 x 31	10 x 38
Max power dissipation accepted		[W]	2.5	3
Rated frequency		[Hz]	50-60	
Tightening torque		[Nm]	PZ2 2-2.5*	
Protection degree			IP20	
Rated insulation voltage		[kV]	1	
Terminals cross-section		[mm²]	25	
Cross-section rigid copper conductors	1 wire		1.5-25 mm² (16-10 AWG)	
	2 wires		-	5 mm² (10 AWG)
Cross-section stranded copper conductors	1 wire		1.5-16 mm² (16-3 AWG)	
	2 wires		-	2-5 mm² (14-10 AWG)
Operating temperature		[°C]	-5/+40 (1)	
Storage temperature		[°C]	-25/+70 (2)	
Altitude		[m]	2000	
Degree of relative humidity at temperature °C			max. 90% with temp. +20 °C 50% with max. temp. +40 °C	
Voltage range for LED indicator light			24-1000 AC/DC (only s version)	
Padlockable (when open)			■	■
Sealable (when closed)			■	■
IEC 60947-3				
Utilization category			AC-22B	AC-22B
Markings		[V]	400	400

(1) for lower temperature verify fuse technical characteristics, for higher temperature refer to derating table in Chapter 5 of Electrical installation solutions for buildings - Technical details
(2) for more than 24h max temperature is +55 °C
** PZ2 2.8 Nm in case of rigid copper conductors, 2 wires

Shock and vibration

Vibration withstand on the 3 main axis:

- Sinusoidal vibration testing according to IEC 60068-2-6: 2 to 13 Hz x = 1 mm peak; 13 to 100 Hz y = 0.7 g peak
- Random vibration testing according to IEC 61373: Category 1 Class B

Shock withstand

- Shock testing according to IEC 60068-2-27 : 15 g/11 ms/18 shocks
- Shock testing according to IEC 61373: Category 1 Class B

Materials

Plastic parts	**Case:**	**Material PA 6 +30% glass fibre**
		Self extinguishing class: V2 (UL94)
		Temperature resistance: 130 °C
	Opening handle	**Material PA 66 +25% glass fibre**
		Self-extinguishing class V0 (UL94)
		Temperature resistance: 140 °C
Metal parts	**Clips**	**Silver plated copper**
	Clip spring	**Stainless steel**
	Terminals	**Galvanized steel**

The E 90 series is environmental friendly and protects the health of people: all used materials are conform to the RoHS and REACH directives and they completely exclude hazardous substances and halogen.

Protection and safety

E 90 fuse switch disconnectors



E 92



E 94

E 90 fuse switch disconnectors

E 90 series fuse switch disconnectors are designed for switching circuits under load, providing protection against short circuits and overloads. The case is made of self-extinguishing thermoplastic material resistant to high temperatures (all materials are UL listed) while the contact clips are in silver plated copper.

E 90 fuse switch disconnectors can be sealed or padlocked to ensure operator safety during maintenance. Versions with blown fuse indicator allow to check whether the fuse is still working correctly or not. For easy and quick installation E 90 range is totally compatible with connecting bars, terminals and caps of S 200 MCBs.

Thanks to cURus approval, they can be installed in UL certified machines.

E 90 fuse switch disconnectors for 10.3 x 38 mm fuses (AC-22B)

Poles	Rated current	Modules	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	In		EAN	Type code	Order code		kg	pc.
1	32	1	009238	E 91/32	2CSM200923R1801		0.061	6
1	32	1	024835	E 91/32s	2CSM202483R1801		0.062	6
1+N	32	2	008934	E 91N/32	2CSM200893R1801		0.130	3
1+N	32	2	515036	E 91N/32s	2CSM251503R1801		0.132	3
2	32	2	008835	E 92/32	2CSM200883R1801		0.122	3
2	32	2	514930	E 92/32s	2CSM251493R1801		0.132	3
3	32	3	047537	E 93/32	2CSM204753R1801		0.183	2
3	32	3	020639	E 93/32s	2CSM202063R1801		0.184	2
3+N	32	4	047339	E 93N/32	2CSM204733R1801		0.252	1
3+N	32	4	514831	E 93N/32s	2CSM251483R1801		0.255	1
4	32	4	047230	E 94/32	2CSM204723R1801		0.244	1
4	32	4	020530	E 94/32s	2CSM202053R1801		0.248	1

s: version with blown fuse indicator light

E 90 fuse switch disconnectors for 8.5 x 31.5 mm fuses (AC-22B)

Poles	Rated current	Modules	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	In		EAN	Type code	Order code		kg	pc.
1	20	1	009832	E 91/20	2CSM200983R1801		0.061	6
1	20	1	024231	E 91/20s	2CSM202423R1801		0.062	6
2	20	2	009535	E 92/20	2CSM200953R1801		0.122	3
2	20	2	896234	E 92/20s	2CSM289623R1801		0.062	3
3	20	3	009436	E 93/20	2CSM200943R1801		0.183	2
3	20	3	896135	E 93/20s	2CSM289613R1801		0.184	2

s: version with blown fuse indicator light

Protection and safety

E 90h fuseholders



E 91hN



E 93hN



Fuse indicator LED

Technical features

Type		E 90hN/20	E 90hN/32
Rated currrent	[A]	20	32
Type of current		AC	
Fuse	[mm]	8 x 31	10 x 38
Max power dissipation accepted	[W]	2.6	3.2
Rated frequency	[Hz]	50-60	
Tightening torque	[Nm]	PZ2 0.8-1.2	
Protection degree		IP20	
Rated insulation voltage	[kV]	1	
Terminals cross-section	[mm²]	16	
Cross-section rigid copper conductors	[mm²]	1.5-16	
Cross-section stranded copper conductors	[mm²]	1.5-10	
Operating temperature	[°C]	-5/+40 (1)	
Storage temperature	[°C]	-25/+70 (2)	
Altitude	[m]	2000	
Degree of relative humidity at temperature °C		max. 90% with temp. +20 °C 50% with max. temp. +40 °C	
Voltage range for LED indicator light		24-1000 AC/DC (only s version)	
Padlockable (when open)		■	
Sealable (when closed)		■	
IEC 60269-3			
Rated voltage	[V]	400	

(1) for lower temperature verify fuse technical characteristics, for higher temperature refer to derating table in Chapter 5 of Electrical installation solutions for buildings - Technical details
(2) for more than 24h max temperature is +55 °C

E 90h fuseholders

E 90h fuseholders are suitable for protection against overloads and short circuits. Available in a single module 1P+N version and in a three-module 3P+N version, they are designed for use with gG and aM cylindrical fuse links. The body is made from self-extinguishing material resistant to high temperatures, while the contact clips are in silver-plated copper. E 90h fuseholders can be sealed or padlocked to assure operator safety during maintenance. Versions with blown fuse indicator allow to check whether the fuse is still working correctly or not.

E 90h fuseholders for 10.3 x 38 mm fuses

Poles	Rated current	Modules	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	In		EAN	Type code	Order code		kg	pc.
1+N	32	1	009139	E 91hN/32	2CSM200913R1801		0.070	6
1+N	32	1	065739	E 91hN/32s	2CSM206573R1801		0.071	6
3+N	32	3	047438	E 93hN/32	2CSM204743R1801		0.192	2
3+N	32	3	743439	E 93hN/32s	2CSM274343R1801		0.200	2

s: version with blown fuse indicator light

E 90h fuseholders for 8.5 x 31.5 mm fuses

Poles	Rated current	Modules	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	In		EAN	Type code	Order code		kg	pc.
1+N	20	1	009634	E 91hN/20	2CSM200963R1801		0.070	6
1+N	20	1	007036	E 91hN/20s	2CSM200703R1801		0.071	6
3+N	20	3	009337	E 93hN/20	2CSM200933R1801		0.192	2
3+N	20	3	896036	E 93hN/20s	2CSM289603R1801		0.200	2

s: version with blown fuse indicator light

Protection and safety

E 90 PV fuse disconnectors



E 90 PV

Technical features

Type		E 90/32 PV	E 90/32 PV according to UL
Rated current	[A]	32	30
Type of current		DC	
Fuse	[mm]	10 x 38	
Max power dissipation accepted	[W]	3	
Rated frequency	[Hz]	-	
Tightening torque		PZ2 2-2.5 Nm	PZ2 18-22 lb-in
Protection degree		IP20	
Rated insulation voltage	[kV]	1	
Terminals cross-section	[mm²]	25	
Cross-section rigid copper conductors		1.5 - 25 mm²	n..a.
Cross-section stranded copper conductors		1.5 - 16 mm²	8÷3 AWG
Operating temperature	[°C]	-5/+40 (1)	
Storage temperature	[°C]	-25/+70 (2)	
Altitude	[m]	2000	
Degree of relative humidity at temperature °C		max. 90% with temp. +20 °C 50% with max. temp. +40 °C	
Voltage range for LED indicator light		24-1000 AC/DC (only s version)	
Can be padlocked (open)		■	
Can be sealed (closed)		■	
IEC 60947-3			
Utilization category		DC-20B	
Rated voltage	[V]	1000	

(1) for lower temperature verify fuse technical characteristics, for higher temperature refer to derating table in Chapter 5 of Electrical installation solutions for buildings - Technical details
(2) for more than 24h max temperature is +55 °C

E 90 PV fuse disconnectors

E 90 PV series fuse disconnectors, designed for operating voltages of 1000 V DC with utilization category DC-20B, are particularly suited for protection against overcurrents of photovoltaic systems.The single-pole or two-pole E 90 PV disconnectors for 10.3 x 38 mm cylindrical fuse links offer a reliable, compact and affordable solution for photovoltaic installations. Versions with blown fuse indicator allow to check whether the fuse is still working correctly or not.

E 90 PV fuse disconnectors for 10.3 x 38 mm fuses (DC-20B)

Poles	Rated current	Modules	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	In		EAN	Type code	Order code		kg	pc.
1	32	1	047131	E 91/32 PV	2CSM204713R1801		0.061	6
1	32	1	046936	E 91/32s PV	2CSM204693R1801		0.062	6
2	32	2	047032	E 92/32 PV	2CSM204703R1801		0.122	3
2	32	2	569138	E 92/32s PV	2CSM256913R1801		0.233	3

s: version with blown fuse indicator light

Protection and safety

E 90 PV 1500 fuse holder



E 90 PV 1500

Technical features

Type		E90/32 PV1500
Reference standards	-	IEC 60269-1,-2,-6 UL 4248-19
Rated current	[A]	32 (acc. IEC) / 30 (acc. UL)
Rated operational voltage	[V]	1500 V DC
Fuse size	[mm]	10×85 and 10/14×85
Max. power dissipation accepted	[W]	6
Tightening torque	[Nm]	PZ2 2-2.5 Nm (PZ2 18-22 lb-in)
Protection degree	-	IP20
Rated insulation voltage	[kV]	1
Cross section rigid copper conductors (1 wire)	[mm²]	16-10 AWG
Cross section stranded copper conductors (1 wire)	[mm²]	0.75 – 25 (18-4 AWG)
Cable temperature	[°C]	max 90 (acc. UL)
Operating temperature	[°C]	> -5
Storage temperature	[°C]	> -25
Degree of relative humidity at temperature °C		max. 90% with temp. +20 °C 50% with max. temp. +40 °C
Approvals	-	UL , CCC

E 90 PV fuse holder

The E 90 PV 1500 series of fuse holders has been designed for applications up 1500 V DC. Thanks to their rated voltage up to 1500 V DC they are the ideal solution for protecting cells and inverters. In case of maintenance, they ensure isolation of circuits and strings up to 1500 V in direct current, in total safety. The main features of E 90 PV 1500 fuse holders include venting grooves and cooling chambers which improved heat dissipation.

E 90 PV fuse holder for 10 × 85 mm and 10/14 × 85 mm fuses

Poles	Rated current	Width	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	In		EAN	Type code	Order code		kg	pc.
1	32	22.5	020417	E91/32 PV1500e	2CSM202041R1801		0.080	5
1	32	22.5	743613	E91/32 PV1500e	2CSM274361U1801		0.080	60

Protection and safety

E 90 50/125 fuse disconnectors



E 90 50/125

Technical features

Type		E 90/50	E 90/125
Rated current	[A]	50	100*
Type of current		AC	
Fuse	[mm]	14 x 51	22 x 58
Max power dissipation accepted	[W]	5	9.5
Rated frequency	[Hz]	50-60	
Tightening torque	[Nm]	PZ2 3-3.5	PZ2 3.5-4
Protection degree		IP20**	
Rated insulation voltage	[kV]	1	
Terminals cross-section	[mm²]	35	50
Cross-section rigid copper conductors	[mm²]	2.5 - 35	4 - 50
Cross-section stranded copper conductors	[mm²]	2.5 - 25	4 - 35
Operating temperature	[°C]	-5/+40 (1)	
Storage temperature	[°C]	-25/+70 (2)	
Degree of relative humidity at temperature °C		max. 90% with temp. +20 °C 50% with max. temp. +40 °C	
Can be sealed closed		■	■
Can be padlocked open		■	■
IEC 60947-3			
Utilization category		AC-20B	
Rated voltage	[V]	690	

* 125A with fuses of type aM and in combination with a device which guarantees protection against overload
** The protection degree IP20 is obtained also as standalone unit with respect to wire size of 10mm²
(1) for lower temperature verify fuse technical characteristics, for higher temperature refer to derating table in Chapter 5 of Electrical installation solutions for buildings - Technical details
(2) for more than 24h max temperature is +55 °C

E90 50/125 fuse disconnectors

The E 90 50/125 fuse disconnector range is specifically intended for industrial circuit protection when currents are from 50 A to 125 A. They can, respectively, carry any type of cylindrical fuses 14x51 and 22x58 mm. The E 90 50/125 fuseholders can be sealed or padlocked in open position to ensure operator safety during maintenance operations. Versions with blown fuse indicator (LED) allow checking whether the fuse is still working correctly or not.

E 90/50 fuse disconnectors for 14 x 51 mm fuses (AC-20B)

Poles	Rated current In	Modules	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1	50	1.5	790228	E 91/50	2CSM279022R1801		0.095	4
1	50	1.5	372028	E 91/50s	2CSM237202R1801		0.095	4
1+N	50	3	779827	E 91N/50	2CSM277982R1801		0.19	2
1+N	50	3	023920	E 91N/50s	2CSM202392R1801		0.19	2
2	50	3	779728	E 92/50	2CSM277972R1801		0.19	2
2	50	3	070320	E 92/50s	2CSM207032R1801		0.19	2
3	50	4.5	779629	E 93/50	2CSM277962R1801		0.285	1
3	50	4.5	574828	E 93/50s	2CSM257482R1801		0.285	1
3+N	50	6	779520	E 93N/50	2CSM277952R1801		0.38	1
3+N	50	6	563020	E 93N/50s	2CSM256302R1801		0.38	1

E 90/125 fuse disconnectors for 22 x 58 mm fuses (AC-20B)

Poles	Rated current In	Modules	Bbn 8012542 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
				Type code	Order code			
1	100	2	775720	E 91/125	2CSM277572R1801		0.135	4
1	100	2	896326	E 91/125s	2CSM289632R1801		0.135	4
1+N	100	4	773528	E 91N/125	2CSM277352R1801		0.27	2
1+N	100	4	049425	E 91N/125s	2CSM204942R1801		0.27	2
2	100	4	771326	E 92/125	2CSM277132R1801		0.27	2
2	100	4	049326	E 92/125s	2CSM204932R1801		0.27	2
3	100	6	775027	E 93/125	2CSM277502R1801		0.405	1
3	100	6	049227	E 93/125s	2CSM204922R1801		0.405	1
3+N	100	8	965329	E 93N/125	2CSM296532R1801		0.54	1
3+N	100	8	049128	E 93N/125s	2CSM204912R1801		0.54	1

s: version with blown fuse indicator light

Protection and safety
E 90 CC fuseholders



E 91



E 93

Technical features

Type			E 90/30 CC
Rated voltage		[V]	600
Rated current		[A]	30
Type of current			AC/DC
Rated frequency		[Hz]	60
Fuse			class CC
Rated insulation voltage		[kV]	1 + 2*U_n
Tightening torque		[Nm]	PZ2 2-2.5*
		[lb-in]	PZ2 18-22**
Terminals cross-section		[mm²]	25
Cross-section rigid copper conductors	1 wire		1.5-25 mm² (16-10 AWG)
	2 wires		5 mm² (10 AWG)
Cross-section stranded copper conductors	1 wire		1.5-16 mm² (16-3 AWG)
	2 wires		2-5 mm² (14-10 AWG)
Operating temperature		[°C]	-5/+40 (1)
Storage temperature		[°C]	-25/+70 (2)
Voltage range for LED indicator light (only s version)		[V]	24 - 1000 AC/DC
Degree of relative humidity at temperature °C			< 60%
Can be sealed closed			■
Can be padlocked open			■

* PZ2 2.8 Nm in case of rigid copper conductors, 2 wires
** PZ2 24,5 lb-in in case of rigid copper conductors, 2 wires
(1) for lower temperature verify fuse technical characteristics, for higher temperature refer to derating table in Chapter 5 of Electrical installation solutions for buildings - Technical details
(2) for more than 24h max temperature is +55 °C

The E 90 fuse carriers for Class CC cylindrical fuse links are specifically designed for the North American market in compliance with the UL standards. In accordance with the reference standards UL 4248-1 and UL 4248-4, they come in voltage and current ratings up to 600V and 30A. They are available in 1P, 1P+N, 2P, 3P, 3P+N and 4P versions. They can be padlocked open and sealed closed.
The E 90 fuse carriers are the ideal solution for process control and industrial systems, automation systems, industrial installations and control circuits. The versions with blown fuse indicator light provide a visual signal of the fuse break condition

E 90 for class CC cartridge fuses

Poles	Rated current	Modules	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	In		EAN	Type code	Order code		kg	pc.
1	30	1	998723	E 91/30 CC	2CSM299872R1801		0.061	6
1	30	1	998822	E 91/30s CC	2CSM299882R1801		0.062	6
1+N	30	2	998921	E 91N/30 CC	2CSM299892R1801		0.13	3
1+N	30	2	999027	E 91N/30s CC	2CSM299902R1801		0.13	3
2	30	2	999126	E 92/30 CC	2CSM299912R1801		0.122	3
2	30	2	999225	E 92/30s CC	2CSM299922R1801		0.122	3
3	30	3	999324	E 93/30 CC	2CSM299932R1801		0.183	2
3	30	3	999423	E 93/30s CC	2CSM299942R1801		0.183	2
3+N	30	4	999522	E 93N/30 CC	2CSM299952R1801		0.252	1
3+N	30	4	999621	E 93N/30s CC	2CSM299962R1801		0.252	1
4	30	4	999720	E 94/30 CC	2CSM299972R1801		0.244	1
4	30	4	999829	E 94/30s CC	2CSM299982R1801		0.244	1

s: version with blown fuse indicator light

Protection and safety

E 90 J fuse fuseholders



E 90 Class J

Technical features

Type		E 90/30 J	E 90/60 J
Rated current	[A]	30	60
Rated voltage	[V]	600	
Type of current		AC/DC	
Fuse		Class J 1-30A	Class J 31-60A
Rated frequency	[Hz]	60	
Rated insulation voltage	[kV]	1 + 2*U_n	
Tightening torque	[Nm]	PZ2 3.5-4	
Terminals cross-section	[mm²]	50	
Cross-section rigid copper conductors	[AWG]	14-10	
Cross-section stranded copper conductors	[AWG]	14-8	
Operating temperature	[°C]	-5/+40 (1)	
Storage temperature	[°C]	-25/+70 (2)	
Degree of relative humidity at temperature °C		< 60%	
Can be sealed closed		■	
Can be padlocked open		■	

(1) for lower temperature verify fuse technical characteristics, for higher temperature refer to derating table in Chapter 5 of Electrical installation solutions for buildings - Technical details
(2) for more than 24h max temperature is +55 °C

E 90 Class J

The E 90 Class J fuse carriers are the ideal solution for industrial systems, industrial installations and control circuits. They are specifically designed for the North American market in compliance with the UL standards. In accordance with the reference standard UL 4248-8, they come in voltage and current ratings up to 600V and 30/60A. They are available in 1P, 2P and 3P versions. The versions with blown fuse indicator light provide a visual signal of the fuse break condition. They can be padlocked open and sealed closed to ensure operator safety during maintenance operations.

E 90/30 fuse disconnectors for Class J fuses

Poles	Rated current	Modules	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	In		EAN	Type code	Order code		kg	pc.
1	30	2	048220	E 91/30 J	2CSM204822R1801		0.135	4
2	30	4	048121	E 92/30 J	2CSM204812R1801		0.27	2
3	30	6	048022	E 93/30 J	2CSM204802R1801		0.405	1
1	30	2	047926	E 91/30s J	2CSM204792R1801		0.135	4
2	30	4	047827	E 92/30s J	2CSM204782R1801		0.27	2
3	30	6	047728	E 93/30s J	2CSM204772R1801		0.405	1

E 90/60 fuse disconnectors for Class J fuses

Poles	Rated current	Modules	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	In		EAN	Type code	Order code		kg	pc.
1	60	2.5	047629	E 91/60 J	2CSM204762R1801		0.175	3
2	60	5	049821	E 92/60 J	2CSM204982R1801		0.35	1
3	60	7.5	049722	E 93/60 J	2CSM204972R1801		0.525	1
1	60	2.5	049623	E 91/60s J	2CSM204962R1801		0.175	3
2	60	5	049524	E 92/60s J	2CSM204952R1801		0.35	1
3	60	7.5	738824	E 93/60s J	2CSM273882R1801		0.525	1

s: version with blown fuse indicator light

Protection and safety

Cylindrical fuses E 9F gG



E 9F8



E 9F10

Technical features

Rated voltage	[V]	400, 500, 690 AC
Rated current	[A]	0.5...125
Breaking capacity	[kA]	20, 80, 120
Overall dimensions	[mm]	8.5x31.5 , 10.3x38 , 14x51 , 22x58
Weight	[g]	4, 7, 18, 48
Reference standards		IEC 60269-2; ROHS 2002/98/CE
Marks		LLOYD, BV

E 9F 8 gG cylindrical fuses 8.5 x 31.5 mm

Type	Rated current [A]	Rated voltage [V AC]	Breaking capacity [kA]
E 9F8 GG1	1	400	20
E 9F8 GG2	2	400	20
E 9F8 GG4	4	400	20
E 9F8 GG6	6	400	20
E 9F8 GG8	8	400	20
E 9F8 GG10	10	400	20
E 9F8 GG12	12	400	20
E 9F8 GG16	16	400	20
E 9F8 GG20	20	400	20

E 9F 10 gG cylindrical fuses 10.3 x 38 mm

Type	Rated current [A]	Rated voltage [V AC]	Breaking capacity [kA]
E 9F10 GG05	0.5	500	120
E 9F10 GG1	1	500	120
E 9F10 GG2	2	500	120
E 9F10 GG4	4	500	120
E 9F10 GG6	6	500	120
E 9F10 GG8	8	500	120
E 9F10 GG10	10	500	120
E 9F10 GG12	12	500	120
E 9F10 GG16	16	500	120
E 9F10 GG20	20	500	120
E 9F10 GG25	25	500	120
E 9F10 GG32	32	400	120

Protection and safety

Cylindrical fuses E 9F gG



E 9F14

E 9F 14 gG cylindrical fuses 14 x 51 mm

Type	Rated current [A]	Rated voltage [V AC]	Breaking capacity [kA]
E 9F14 GG2	2	690	120
E 9F14 GG4	4	690	120
E 9F14 GG6	6	690	120
E 9F14 GG8	8	690	120
E 9F14 GG10	10	690	120
E 9F14 GG12	12	690	120
E 9F14 GG16	16	690	120
E 9F14 GG20	20	690	120
E 9F14 GG25	25	690	120
E 9F14 GG32	32	690	120
E 9F14 GG40	40	680	120
E 9F14 GG50	50	500	120



E 9F22

E 9F 22 gG cylindrical fuses 22 x 58 mm

Type	Rated current [A]	Rated voltage [V AC]	Breaking capacity [kA]
E 9F22 GG4	4	690	120
E 9F22 GG6	6	690	120
E 9F22 GG8	8	690	120
E 9F22 GG10	10	690	120
E 9F22 GG12	12	690	120
E 9F22 GG16	16	690	120
E 9F22 GG20	20	690	120
E 9F22 GG25	25	690	120
E 9F22 GG32	32	690	120
E 9F22 GG40	40	690	120
E 9F22 GG50	50	690	120
E 9F22 GG63	63	690	120
E 9F22 GG80	80	690	120
E 9F22 GG100	100	500	120
E 9F22 GG125	125	500	120

Protection and safety
Cylindrical fuses E 9F gG

E 9F gG cylindrical fuses
The E 9F gG cylindrical fuses, coupled with E 90 and E 90 50/125 fuse disconnectors, are the ideal solution for protection against overload and short-circuit. They feature a fast tripping curve that is ideal for protecting electronic devices, transformers and electric cables. The E 9F gG series is available for all the main sizes (8.5 x 31.5 mm, 10.3 x 38 mm, 14 x 51 mm e 22 x 58 mm) and with a wide range of rated current values (from 1 A to 125 A and up to 690 V AC). All the E 9F series fuses conform to the RoHS directive and are type-approved in accordance with the most important international naval marks.

E 9F 8 gG cylindrical fuses 8.5 x 31.5 mm

Rated current	Size	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
In	mm	EAN	Type code	Order code		kg	pc.
1	8.5x31.5	575733	E 9F8 GG1	2CSM257573R1801		0.004	10
2	8.5x31.5	563938	E 9F8 GG2	2CSM256393R1801		0.004	10
4	8.5x31.5	586630	E 9F8 GG4	2CSM258663R1801		0.004	10
6	8.5x31.5	574835	E 9F8 GG6	2CSM257483R1801		0.004	10
8	8.5x31.5	563037	E 9F8 GG8	2CSM256303R1801		0.004	10
10	8.5x31.5	775737	E 9F8 GG10	2CSM277573R1801		0.004	10
12	8.5x31.5	773535	E 9F8 GG12	2CSM277353R1801		0.004	10
16	8.5x31.5	771333	E 9F8 GG16	2CSM277133R1801		0.004	10
20	8.5x31.5	775034	E 9F8 GG20	2CSM277503R1801		0.004	10

E 9F 10 gG cylindrical fuses 10.3 x 38 mm

Rated current	Size	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
In	mm	EAN	Type code	Order code		kg	pc.
0.5	10.3x38	773337	E 9F10 GG05	2CSM277333R1801		0.007	10
1	10.3x38	771135	E 9F10 GG1	2CSM277113R1801		0.007	10
2	10.3x38	587231	E 9F10 GG2	2CSM258723R1801		0.007	10
4	10.3x38	575436	E 9F10 GG4	2CSM257543R1801		0.007	10
6	10.3x38	563631	E 9F10 GG6	2CSM256363R1801		0.007	10
8	10.3x38	586333	E 9F10 GG8	2CSM258633R1801		0.007	10
10	10.3x38	574538	E 9F10 GG10	2CSM257453R1801		0.007	10
12	10.3x38	562733	E 9F10 GG12	2CSM256273R1801		0.007	10
16	10.3x38	775430	E 9F10 GG16	2CSM277543R1801		0.007	10
20	10.3x38	773238	E 9F10 GG20	2CSM277323R1801		0.007	10
25	10.3x38	771036	E 9F10 GG25	2CSM277103R1801		0.007	10
32	10.3x38	587132	E 9F10 GG32	2CSM258713R1801		0.007	10

Protection and safety
Cylindrical fuses E 9F gG

E 9F 14 gG cylindrical fuses 14 x 51 mm

Rated current	Size	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
In	mm	EAN	Type code	Order code		kg	pc.
2	14x51	775232	E 9F14 GG2	2CSM277523R1801		0.018	10
4	14x51	773030	E 9F14 GG4	2CSM277303R1801		0.018	10
6	14x51	770831	E 9F14 GG6	2CSM277083R1801		0.018	10
8	14x51	910039	E 9F14 GG8	2CSM291003R1801		0.018	10
10	14x51	909835	E 9F14 GG10	2CSM290983R1801		0.018	10
12	14x51	909637	E 9F14 GG12	2CSM290963R1801		0.018	10
16	14x51	587835	E 9F14 GG16	2CSM258783R1801		0.018	10
20	14x51	576037	E 9F14 GG20	2CSM257603R1801		0.018	10
25	14x51	564232	E 9F14 GG25	2CSM256423R1801		0.018	10
32	14x51	586937	E 9F14 GG32	2CSM258693R1801		0.018	10
40	14x51	575139	E 9F14 GG40	2CSM257513R1801		0.018	10
50	14x51	563334	E 9F14 GG50	2CSM256333R1801		0.018	10

E 9F 22 gG cylindrical fuses 22 x 58 mm

Rated current	Size	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
In	mm	EAN	Type code	Order code		kg	pc.
4	22x58	571834	E 9F22 GG4	2CSM257183R1801		0.048	10
6	22x58	592839	E 9F22 GG6	2CSM259283R1801		0.048	10
8	22x58	581031	E 9F22 GG8	2CSM258103R1801		0.048	10
10	22x58	569237	E 9F22 GG10	2CSM256923R1801		0.048	10
12	22x58	594031	E 9F22 GG12	2CSM259403R1801		0.048	10
16	22x58	582236	E 9F22 GG16	2CSM258223R1801		0.048	10
20	22x58	570431	E 9F22 GG20	2CSM257043R1801		0.048	10
25	22x58	595335	E 9F22 GG25	2CSM259533R1801		0.048	10
32	22x58	583530	E 9F22 GG32	2CSM258353R1801		0.048	10
40	22x58	571735	E 9F22 GG40	2CSM257173R1801		0.048	10
50	22x58	593935	E 9F22 GG50	2CSM259393R1801		0.048	10
63	22x58	582137	E 9F22 GG63	2CSM258213R1801		0.048	10
80	22x58	570332	E 9F22 GG80	2CSM257033R1801		0.048	10
100	22x58	595236	E 9F22 GG100	2CSM259523R1801		0.048	10
125	22x58	583431	E 9F22 GG125	2CSM258343R1801		0.048	10

Protection and safety
Cylindrical fuses E 9F aM



E 9F8 aM

Technical features

Rated voltage	[V]	400, 500, 690 AC
Rated current	[A]	0.5...125
Breaking capacity	[kA]	20, 80, 120
Overall dimensions	[mm]	8.5x31.5, 10.3x38, 14x51, 22x58
Weight	[g]	4, 7, 18, 48
Reference standards		IEC 60269-2; ROHS 2002/98/CE
Marks		LLOYD, BV

E 9F8 aM cylindrical fuses 8.5 x 31.5 mm

Type	Rated current [A]	Rated voltage [V AC]	Breaking capacity [kA]
E 9F1 AM1	1	400	20
E 9F8 AM2	2	400	20
E 9F8 AM4	4	400	20
E 9F8 AM6	6	400	20
E 9F8 AM8	8	400	20
E 9F8 AM10	10	400	20



E 9F10 aM

E 9F10 aM cylindrical fuses 10.3 x 38 mm

Type	Rated current [A]	Rated voltage [V AC]	Breaking capacity [kA]
E 9F10 AM05	0.5	500	120
E 9F10 AM1	1	500	120
E 9F10 AM2	2	500	120
E 9F10 AM4	4	500	120
E 9F10 AM6	6	500	120
E 9F10 AM8	8	500	120
E 9F10 AM10	10	500	120
E 9F10 AM12	12	500	120
E 9F10 AM16	16	500	120
E 9F10 AM20	20	500	120
E 9F10 AM25	25	400	120
E 9F10 AM32	32	400	120

Protection and safety

Cylindrical fuses E 9F aM



E 9F14 aM

E 9F14 aM cylindrical fuses 14 x 51 mm

Type	Rated current [A]	Rated voltage [V AC]	Breaking capacity [kA]
E 9F14 AM1	1	690	120
E 9F14 AM2	2	690	120
E 9F14 AM4	4	690	120
E 9F14 AM6	6	690	120
E 9F14 AM8	8	690	120
E 9F14 AM10	10	690	120
E 9F14 AM12	12	690	120
E 9F14 AM16	16	690	120
E 9F14 AM20	20	690	120
E 9F14 AM25	25	690	120
E 9F14 AM32	32	690	120
E 9F14 AM40	40	690	120
E 9F14 AM45	45	500	120
E 9F14 AM50	50	500	120



E 9F22 aM

E 9F22 aM cylindrical fuses 22 x 58 mm

Type	Rated current [A]	Rated voltage [V AC]	Breaking capacity [kA]
E 9F22 AM6	6	690	120
E 9F22 AM8	8	690	120
E 9F22 AM10	10	690	120
E 9F22 AM12	12	690	120
E 9F22 AM16	16	690	120
E 9F22 AM20	20	690	120
E 9F22 AM25	25	690	120
E 9F22 AM32	32	690	120
E 9F22 AM40	40	690	120
E 9F22 AM50	50	690	120
E 9F22 AM63	63	690	120
E 9F22 AM80	80	690	120
E 9F22 AM100	100	500	120
E 9F22 AM125	125	500	120

Protection and safety
Cylindrical fuses E 9F aM

E 9F aM cylindrical fuses
The E 9F aM cylindrical fuses, coupled with E 90 and E 90 50/125 fuse disconnectors, are the ideal solution for protection against overload and short-circuit. They feature a delayed tripping curve and are therefore ideal for protecting industrial motors that require high inrush current during the starting phase. The E 9F aM series is available for all the main sizes (8.5 x 31.5 mm, 10.3 x 38 mm, 14 x 51 mm e 22 x 58 mm) and with a wide range of rated current values (from 1 A to 125 A and up to 690 V AC). All the E 9F series fuses conform to the RoHS directive and are type-approved in accordance with the most important international naval marks.

E 9F 8 aM cylindrical fuses 8.5 x 31.5 mm

Rated current	Size	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
In	mm	EAN	Type code	Order code		kg	pc.
1	8.5x31.5	772835	E 9F8 AM1	2CSM277283R1801		0.004	10
2	8.5x31.5	770633	E 9F8 AM2	2CSM277063R1801		0.004	10
4	8.5x31.5	587439	E 9F8 AM4	2CSM258743R1801		0.004	10
6	8.5x31.5	575634	E 9F8 AM6	2CSM257563R1801		0.004	10
8	8.5x31.5	563839	E 9F8 AM8	2CSM256383R1801		0.004	10
10	8.5x31.5	586531	E 9F8 AM10	2CSM258653R1801		0.004	10

E 9F 10 aM cylindrical fuses 10.3 x 38 mm

Rated current	Size	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
In	mm	EAN	Type code	Order code		kg	pc.
0.5	10.3x38	574736	E 9F10 AM05	2CSM257473R1801		0.007	10
1	10.3x38	562931	E 9F10 AM1	2CSM256293R1801		0.007	10
2	10.3x38	775638	E 9F10 AM2	2CSM277563R1801		0.007	10
4	10.3x38	773436	E 9F10 AM4	2CSM277343R1801		0.007	10
6	10.3x38	771234	E 9F10 AM6	2CSM277123R1801		0.007	10
8	10.3x38	587330	E 9F10 AM8	2CSM258733R1801		0.007	10
10	10.3x38	575535	E 9F10 AM10	2CSM257553R1801		0.007	10
12	10.3x38	563730	E 9F10 AM12	2CSM256373R1801		0.007	10
16	10.3x38	586432	E 9F10 AM16	2CSM258643R1801		0.007	10
20	10.3x38	574637	E 9F10 AM20	2CSM257463R1801		0.007	10
25	10.3x38	562832	E 9F10 AM25	2CSM256283R1801		0.007	10
32	10.3x38	775539	E 9F10 AM32	2CSM277553R1801		0.007	10

Protection and safety

Cylindrical fuses E 9F aM

E 9F 14 aM cylindrical fuses 14 x 51 mm

Rated current	Size	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
In	mm	EAN	Type code	Order code		kg	pc.
1	14x51	575337	E 9F14 AM1	2CSM257533R1801		0.018	10
2	14x51	563532	E 9F14 AM2	2CSM256353R1801		0.018	10
4	14x51	586234	E 9F14 AM4	2CSM258623R1801		0.018	10
6	14x51	574439	E 9F14 AM6	2CSM257443R1801		0.018	10
8	14x51	562634	E 9F14 AM8	2CSM256263R1801		0.018	10
10	14x51	775331	E 9F14 AM10	2CSM277533R1801		0.018	10
12	14x51	773139	E 9F14 AM12	2CSM277313R1801		0.018	10
16	14x51	770930	E 9F14 AM16	2CSM277093R1801		0.018	10
20	14x51	587033	E 9F14 AM20	2CSM258703R1801		0.018	10
25	14x51	575238	E 9F14 AM25	2CSM257523R1801		0.018	10
32	14x51	563433	E 9F14 AM32	2CSM256343R1801		0.018	10
40	14x51	586135	E 9F14 AM40	2CSM258613R1801		0.018	10
45	14x51	574330	E 9F14 AM45	2CSM257433R1801		0.018	10
50	14x51	562535	E 9F14 AM50	2CSM256253R1801		0.018	10

E 9F 22 aM cylindrical fuses 22 x 58 mm

Rated current	Size	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
In	mm	EAN	Type code	Order code		kg	pc.
6	22x58	586036	E 9F22 AM6	2CSM258603R1801		0.048	10
8	22x58	574231	E 9F22 AM8	2CSM257423R1801		0.048	10
10	22x58	562436	E 9F22 AM10	2CSM256243R1801		0.048	10
12	22x58	775133	E 9F22 AM12	2CSM277513R1801		0.048	10
16	22x58	772934	E 9F22 AM16	2CSM277293R1801		0.048	10
20	22x58	770732	E 9F22 AM20	2CSM277073R1801		0.048	10
25	22x58	774938	E 9F22 AM25	2CSM277493R1801		0.048	10
32	22x58	772736	E 9F22 AM32	2CSM277273R1801		0.048	10
40	22x58	770534	E 9F22 AM40	2CSM277053R1801		0.048	10
50	22x58	594130	E 9F22 AM50	2CSM259413R1801		0.048	10
63	22x58	582335	E 9F22 AM63	2CSM258233R1801		0.048	10
80	22x58	570530	E 9F22 AM80	2CSM257053R1801		0.048	10
100	22x58	595434	E 9F22 AM100	2CSM259543R1801		0.048	10
125	22x58	583639	E 9F22 AM125	2CSM258363R1801		0.048	10

Protection and safety

Cylindrical fuses E 9F gPV



E 9F PV

Type		E9F PV	E9F PV 1500
Reference standards	-	IEC 60269-6; ROHS 2002/98/CE, UL	IEC 60269-6; ROHS 2002/98/CE, UL
Rated current	[A]	1...30	4...32
Rated operational voltage	[V]	1000 DC	1500 DC
Breaking capacity	[kA]	10	50
Overall dimensions	[mm]	10.3 x 38	10 x 85

E 9F PV cylindrical fuses for photovoltaic applications

The E9F PV series of cylindrical fuses has been specifically designed for protecting direct current circuits up to 1500 V DC. Those fuses are the best way to protect the strings, inverters and surge arresters in photovoltaic installations.

The range of E9F PV fuses is available in the 10.3 x 38 mm size for up to 30 A rated current values at a nominal voltage of 1000 V DC or in the 10x85 mm size up to 32 A rated current at a nominal voltage of 1500 V DC.

E 9F PV cylindrical fuses 10.3 x 38 mm

Rated current	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
In	EAN	Type code	Order code		kg	pc.
1 A	134568	E 9F1 PV	2CSM213456R1801		0.007	10
2 A	134667	E 9F2 PV	2CSM213466R1801		0.007	10
3 A	134766	E 9F3 PV	2CSM213476R1801		0.007	10
4 A	134865	E 9F4 PV	2CSM213486R1801		0.007	10
5 A	134964	E 9F5 PV	2CSM213496R1801		0.007	10
6 A	135060	E 9F6 PV	2CSM213506R1801		0.007	10
7 A	135169	E 9F7 PV	2CSM213516R1801		0.007	10
8 A	135268	E 9F8 PV	2CSM213526R1801		0.007	10
10 A	135367	E 9F10 PV	2CSM213536R1801		0.007	10
12 A	135466	E 9F12 PV	2CSM213546R1801		0.007	10
15 A	135565	E 9F15 PV	2CSM213556R1801		0.007	10
20 A	135664	E 9F20 PV	2CSM213566R1801		0.007	10
25 A	135763	E 9F25 PV	2CSM213576R1801		0.007	10
30 A	135862	E 9F30 PV	2CSM213586R1801		0.007	10

E9F PV cylindrical fuses 10 x 85 mm

Rated current	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
In	EAN	Type code	Order code		kg	pc.
4 A	339410	E9F4 PV1500	2CSM233941R1801		0.010	5
5 A	052852	E9F5 PV1500	2CSM205285R1801		0.010	5
6 A	052951	E9F6 PV1500	2CSM205295R1801		0.010	5
7 A	053057	E9F7 PV1500	2CSM205305R1801		0.010	5
8 A	053156	E9F8 PV1500	2CSM205315R1801		0.010	5
10 A	053255	E9F10 PV1500	2CSM205325R1801		0.010	5
12 A	053354	E9F12 PV1500	2CSM205335R1801		0.010	5
15 A	053453	E9F15 PV1500	2CSM205345R1801		0.010	5
20 A	068754	E9F20 PV1500	2CSM206875R1801		0.010	5
25 A	068952	E9F25 PV1500	2CSM206895R1801		0.010	5
30 A	069058	E9F30 PV1500	2CSM206905R1801		0.010	5
32 A	069256	E9F32 PV1500	2CSM206925R1801		0.010	5

Protection and safety

ILTS-E D0 Fuse-switch-disconnectors



ILTS-E1



ILTS-E1



ILTS-E3



ILTS-E/H11



ILTS-E/RE

Technical data

Reference standards	DIN VDE 0638, EN 60947-3, EN 660269-3-1
Approval	VDE
No. of poles	1, 2, 3 pole and 3 pole+N
Rated voltage	400 V AC, per pole 65 V DC (2 pole 130 V DC)
Operating current In	acc. to fuse link D0 2-63 A
Rated frequency	50/60 Hz
Rated short circuit capacity	50 kA for AC (8 kA for DC)
Power loss	5.5 W/pole
Utilization category	AC 22 B: 400 V AC 63 A according to IEC/EN 60947-3 (all versions)
	DC 22 B: 65 V DC 63 A according to IEC/EN 60947-3 (1 pole)
	DC 22 B: 130 V DC 63 A according to IEC/EN 60947-3 (2 pole)
Leakage current resistance	CTI 200
Ambient temperature	– 5 °C up to + 40 °C
Casing material	thermoplast; halogen-, phosphor-, silicone- and CFC-free
Fire classification	UL 94 (self-extinguishing)
Shock protection	according to DIN EN 50 274 (DIN VDE 0660 Part 514) BGV A3
Connection capacity	1.5 – 35 mm2 finely stranded, directly clamped or with connector sleeve Twin-function terminal for simultaneous connection of two conductors (35 mm2 and 16 mm²) or conductor and busbar
Pick-up torque	2.5 – 3 Nm
Auxiliary switch indicating contact position	
Contacts	1 NO contact + 1 NC contact
Contact rating	AC 13: 2 A/400 V, 6 A/230 V DC 13: 1 A/220 V, 6 A/24 V

Switch-disconnector ILTS-E for D0 2-63 A fuse links “Drawer technology”

User-friendly fuse-switch-disconnector in “drawer technology”:

- Snap action
- Fuse can be replaced only if the system is de-energized.
- Captive fuse carrier
- For D02 fuse links, D01 fuse link with reducing piece
- Twin box terminal on both sides
- User-friendly installation of cross-wiring in lower terminal
- Auxiliary switch to indicate switching position

Fuse-switch-disconnector

Poles	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
1	65347 3	ILTS-E1	2CDE101001R1901		0.210	3
2	65348 0	ILTS-E2	2CDE102001R1901		0.420	2
3	65349 7	ILTS-E3	2CDE103001R1901		0.630	1
3+N*	65350 3	ILTS-E3+N	2CDE103101R1901		0.790	1
Reducing piece	65407 4	ILTS-E/RE	2CDE000011R1901		0.001	20
Auxiliary switch 1NO/1NC	65671 9	ILTS-E/H11	2CDE000012R1901		0.050	1

* N conductor leading make contact, late closing

Protection and safety

ISS D0 Fuse carriers



ISS 16/1



ISS 63/1



ISS 16/3



ISS 63/3

Technical features

Size	D01	D02
Current type	AC (50 Hz)/DC	AC (50 Hz)/DC
Rated voltage	400 V AC/250 V DC	400 V AC/250 V DC
Rated current	16 A	63 A
Rated short-circuit current	50 kA (AC) 8 kA (DC)	50 kA (AC) 8 kA (DC)
For fuse links with losses per phase up to	2.5 W	5.5 W

D0 fuse carrier ISS with integrated red cover

D0 fuse base for NEOZED fuse links D01/D02. Touch-protection according to DGUV regulation 3. Twin box terminal on both sides for connection of two different conductor cross-sections or conductors and busbars.

Conductor cross-sections incoming and outing 1.5 – 35 mm^2, stranded. With integrated terminal cover. A separate cover for distribution board installation is not required.

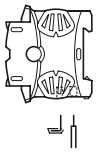
- IEC 60269-3/VDE 0636-3
- 1/3-pole
- Fuse links, connector sleeves VDE 0636-3
- Snap clip device for rail mounting to EN 60715
- Twin function terminal
- Connection cross-section 1.5 – 35 mm^2
- Tightening torque 2.5 – 3 Nm

D0 fuse carrier

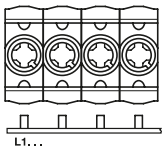
Poles	Screw cover/fuse	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
		EAN	Type code	Order code		kg	pc.
1	E14 D01	65579 8	ISS 16/1	2CDE111001R1902		0.08	9
1	E18 D02	65581 1	ISS 63/1	2CDE161001R1902		0.08	9
3	E14 D01	65580 4	ISS 16/3	2CDE113001R1902		0.24	9
3	E18 D02	65582 8	ISS 63/3	2CDE163001R1902		0.24	9

Protection and safety

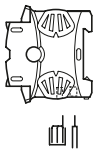
Busbars and accessories for ILTS-E and ISS



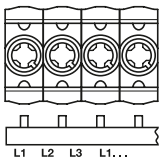
ISS, 1pole



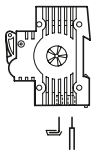
PS 1/39/16 ILTS-E
PS 1/39/30 ILTS-E



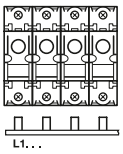
ISS, 3pole



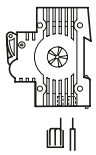
PS 3/39/16 ILTS-E
PS 3/39/30 ILTS-E



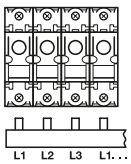
ILTS-E, 1pole



PS 1/39/16 ILTS-E
PS 1/39/30 ILTS-E



ILTS-E, 3pole



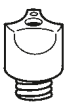
PS 3/39/16 ILTS-E
PS 3/39/30 ILTS-E



Fuse links
D 01
2-16 A



D 02
20-63 A





D0 screw caps

Busbars for fuse-switch-disconnector ILTS-E and fuse carrier ISS: 1pole or 3pole
End caps:
PS 1/39/16 ILTS-E: END 1.1
PS 1/39/30 ILTS-E: PS-END 3.2
PS 3/39/16 ILTS-E: PS-END
PS 3/39/30 ILTS-E: PS-END 3

Busbars

Cross-section	Length	No. of poles	Cu factor	Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
mm²	mm			EAN	Type code	Order code		kg	pc.
16	1040	39 x 1	0.43	66956 6 (1)	PS 1/39/16 ILTS-E	2CDL010101R1639	15	0.23	10
30	1040	39 x 1	0.74	66957 3 (1)	PS 1/39/30 ILTS-E*	2CDL010101R3039	15	0.487	5
16	1040	39 x 3	1.3	66958 0 (1)	PS 3/39/16 ILTS-E	2CDL030101R1639	15	0.59	10
30	1040	39 x 3	1.95	66959 7 (1)	PS 3/39/30 ILTS-E*	2CDL030101R3039	15	1.222	5

(1) bbn-Nr. 40 16779 * Not compatible with ISS

End caps

Cross-section	Length	No. of poles	Cu factor	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
mm²	mm			EAN	Type code	Order code		kg	pc.
		1		63891 3	END 1.1	2CDL200011R0011	15	0.001	50
		2/3		51472 9	PS-END	2CDL200001R0001	15	0.001	50
		2/3		65430 2	PS-END 3	2CDL200001R3001	15	0.001	50
		1		66960 3	PS-END 3.2	2CDL200001R3003	15	0.001	50

D0 fuses and accessories

D0 fuse links to DIN VDE 0636-3, IEC/EN 60269-3 suitable for D01/E14

Rated current	Colour code	Power loss	Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
A		W	EAN	Type code	Order code		kg	pc.
2	pink	1.5	60480 7	D01 x 2 gG	GMN 977120P0011	13	0.006	10
4	brown	1.5	60490 6	D01 x 4 gG	GMN 977120P0012	13	0.006	10
6	green	1.5	60500 2	D01 x 6 gG	GMN 977120P0013	13	0.006	10
10	red	1.8	60510 1	D01 x 10 gG	GMN 977120P0014	13	0.006	10
16	grey	2.1	60520 0	D01 x 16 gG	GMN 977120P0015	13	0.006	10

Suitable for D02/E18

Rated current	Colour code	Power loss	Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
A		W	EAN	Type code	Order code		kg	pc.
20	blue	2.3	60530 9	D02 x 20 gG	GMN 977120P0017	13	0.011	10
25	yellow	2.6	60540 8	D02 x 25 gG	GMN 977120P0018	13	0.012	10
35	black	2.9	60550 7	D02 x 35 gG	GMN 977120P0019	13	0.013	10
50	white	3.5	60560 6	D02 x 50 gG	GMN 977120P0020	13	0.014	10
63	copper	4.2	60570 5	D02 x 63 gG	GMN 977120P0021	13	0.015	10

Protection and safety

Busbars and accessories for ILTS-E and ISS





Connector sleeves
D 01 D 02
2-10 A 2-50 A



FD 1713

D0 screw caps acc. to DIN VDE 0636-3, IEC/EN 60269-3, 400 V AC
Plastic version, RAL 7037

Rated current	Colour code	Power loss	Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
A		W	EAN	Type code	Order code		kg	pc.
16	for D01	–	60790 7	D01 DIN 49 525 K	GMN 977130P0011	13	0.015	20
63	for D02	–	60800 3	D02 DIN 49 525 K	GMN 977130P0012	13	0.015	20

D0 connector sleeves to DIN VDE 0636-3, IEC/EN 60269-3
Suitable for D01/E14

Rated current	Colour code	Power loss	Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
A		W	EAN	Type code	Order code		kg	pc.
2	pink	–	60600 9	D01 x 2	GMN 977125P0001	13	0.001	50
4	brown		60610 8	D01 x 4	GMN 977125P0002	13	0.001	50
6	green		60620 7	D01 x 6	GMN 977125P0003	13	0.001	50
10	red		60630 6	D01 x 10	GMN 977125P0004	13	0.001	50

Suitable for D02/E18

Rated current	Colour code	Power loss	Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
A		W	EAN	Type code	Order code		kg	pc.
2	pink	–	60640 5	D02 x 2	GMN 977125P0011	13	0.001	50
4	brown		60650 4	D02 x 4	GMN 977125P0012	13	0.001	50
6	green		60660 3	D02 x 6	GMN 977125P0013	13	0.001	50
10	red		60670 2	D02 x 10	GMN 977125P0014	13	0.001	50
16	grey		60680 1	D02 x 16	GMN 977125P0015	13	0.001	50
20	blue		60690 0	D02 x 20	GMN 977125P0016	13	0.001	50
25	yellow		60700 6	D02 x 25	GMN 977125P0017	13	0.001	50
35	black		60710 5	D02 x 35	GMN 977125P0018	13	0.001	50
50	white		60720 4	D02 x 50	GMN 977125P0019	13	0.001	50

Spring clip for use of D01 fuses in D02 screw caps

Rated current	Colour code	Power loss	Bbn 4012233	Order details		Price 1 piece	Weight 1 piece	Pack unit
A		W	EAN	Type code	Order code		kg	pc.
			15120 7	FD 1713	GMN 977130P0004	13	0.001	50

Protection and safety

Electronic Protection Devices for use behind 24 V DC Switch Mode Power Supplies



EPD

Operating data

Operating voltage UB	24 V DC (18...32 V)		
Current rating IN	fixed current ratings: 0.5, 1, 2, 3, 4, 6, 8, 10, 12 A		
Closed current I0	ON condition: typically 20...30 mA depending on signal output		
Staus indication by means of	multico-lour LED	Green	- unit is ON (S1 = ON)
			- load circuit/Power-is switched on MOSFET
		Orange	- in the event of overload or short circuit until electronic disconnection
		Red	- unit electronically disconnected
			- load circuit/Power-MOSFET OFF
			- undervoltage (UB < 8 V)
			- after switch-on till the end of the delay period
		OFF	- manually switched off (S1 = OFF) or device is dead
	potential-free auxiliary contact F		
	ON/OFF/condition of switch S1		

Load circuit

Load output	Power-MOSFET switching output (high slide switch)
Overload disconnection	typically 1.1 x IN (1.05...1.35 x IN)
Short-circuit current IK	active current limitation (see table 1)
Trip time	see time/current characteristics
For electronic disconnection	typically 3 s at ILoad > 1.1 x IN typically 100 ms...3 s at ILoad > 1.8 x IN (or 1.5 x IN/1.3 x IN,)
Temperature disconnection	internal temperature monitoring with electronic disconnection
Low voltage monitoring load output	with hysteresis, no reset required: load »OFF« at UB< 8 V
Starting delay tStart	typically 0.5 sec after every switch-on and after applying US
Disconnection of load circuit	electronic disconnection
Free-wheeling circuit	suitable external free-wheeling circuit to be used with inductive load
Several load outputs must not be connected in parallel	

Signal output F

Electrical data	potential-free auxiliary contact max. 30 V DC/0.5 A, min. 10 V DC/10 mA
ON condition LED green	voltage UB applied, switch S1 is in ON position no overload, no short circuit
OFF condition LED off	device switched off (switch S1 is in OFF position)
	no voltage UB applied
Fault condition LED orange	overload condition > 1.1 x IN up to electronic disconnection
Aux. contact	single signal, make contact
	contact open, terminal 13-14
Fault	signal output fault conditions
	- no operating voltage UB
	- ON/OFF switch S1 is in OFF position
	- red LED lighted (electronic discon nection)

Protection and safety

Electronic Protection Devices for use behind 24 V DC Switch Mode Power Supplies

General data

Fail-Safe element	backup fuse for EPD24 not required
	because of the integral redundant fail-safe element
Housing material	moulded
Mounting	symmetrical rail to EN 50022-35x7.5
Ambient temperature	-25...+60°C (without condensation, see EN 60204-1; ambient temperature range may differ for approvals)
Storage temperature	-40...+70 °C
Humidity	96 hrs/95 % RH/40 °C to IEC 60068-2-78, test Cab. climate class 3K3 to EN 60721
Vibration	3 g, test to IEC 60068-2-6 test Fc
Protection degree	housing: IP20 DIN 40050
	terminals: IP20 DIN 40050
EMC (EMC directive, CE logo)	emission: EN 61000-6-3
	susceptibility: EN 61000-6-2
Isolations coordination (IEC 60934)	0.5 kV/pollution degree 2 reinforced insulation in operating area
Dielectric strength	max. 32 V DC (load circuit)
Isolation resistance (OFF condition)	n/a, only electronic disconnection
Approvals/Declarations of conformity	UL 2367 Solid State Overcurrent Protectors
	UL 1604, (class I, division 2, groups A, B, C, D)
	UL 508
	CSA C22.2 No. 213 (class I, division 2)
	CSA C22.2 No. 142
	CSA C22.2 No. 14
	CE logo
Dimensions (B x H x T)	12.5 x 80 x 83 mm
Weight	approx. 65 g

Terminals Line+/LOAD+/0V

Screw terminals	M4
Max. cable cross section flexible with wire end ferrule w/wo plastic sleeve	0.5 – 10 mm^2
Multi-lead connection (2 identical cables) rigid/flexible	0.5 – 4 mm^2
Flexible with wire end ferrule without plastic sleeve	0.5 – 2.5 mm^2
Flexible with TWIN wire end ferrule with plastic sleeve	0.5 – 6 mm^2
Wire stripping length	10 mm
Tightening torque (EN 60934)	1.5 – 1.8 Nm

Terminals aux. contacts

Screw terminals	M3
Max. cable cross section flexible with wire end ferrule w/wo plastic sleeve	0.25 - 2.5 mm^2
Wire stripping length	8 mm
Tightening torque (EN 60934)	0.5 Nm

Protection and safety

Electronic Protection Devices for use behind 24 V DC Switch Mode Power Supplies



EPD24

The protection devices EPD24 extend the ABB product range of modular DIN rail components by electronic overcurrent protection modules for selective protection of 24V DC load circuits.
This protection is achieved by a combination of active electronic current limitation in the case of a short circuit and an overload deactivation from 1.1 x In upwards.
If a fault occurs in a load circuit, the protection device EPD24 will detect this rapidly and reliably, disable the power output transistor and hence interrupt the current flow in the defective circuit. The maximum possible overcurrent is always limited to 1.5...1.8 times the selected rated current. An activation of capacitive loads up to 20.000 µF is possible, deactivation only occurring in the case of overloads or short circuits. Selective deactivation of the defective current circuit means undefined error states and a complete system stop are prevented.

Features

- Selective load protection, one electronic trip characteristics.
- Active current limitation for safe connection of capacitive loads up to 20.000 µF and on overload/short circuit.
- Current ratings 0.5 A...12 A.
- Reliable overload disconnection with 1.1 x IN
- Manual ON/OFF button
- Clear status and failure indication through LED and auxiliary contact.
- Integral fail-safe element adjusted to current rating.
- Width per unit only 12.5 mm.
- Rail mounting
- Ease of wiring through busbar LINE+ and 0 V as well as signal bars.
- UL- and CSA-approvals allow international use of the devices.

Rated current In	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
A	EAN	Type code	Order code		kg	pc.
0.5	829960	EPD24-TB-101-0.5A	2CDE601101R2905		0.065	4
1	829984	EPD24-TB-101-1A	2CDE601101R2001		0.065	4
2	830003	EPD24-TB-101-2A	2CDE601101R2002		0.065	4
3	830027	EPD24-TB-101-3A	2CDE601101R2003		0.065	4
4	830041	EPD24-TB-101-4A	2CDE601101R2004		0.065	4
6	830065	EPD24-TB-101-6A	2CDE601101R2006		0.065	4
8	830089	EPD24-TB-101-8A	2CDE601101R2008		0.065	4
10	830102	EPD24-TB-101-10A	2CDE601101R2010		0.065	4
12	830126	EPD24-TB-101-12A	2CDE601101R2012		0.065	4

Accessories

	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Busbars for LINE+ and 0 V, grey insulation, length 500 mm [1]	830140	EPD-BB500	2CDE605100R0500		0.20	10
Signal Bars for aux. contacts, grey insulation, length 21 mm	830164	EPD-SB21	2CDE605200R0021		0.04	10

1) Max. load with one line entry Imax = 50 A (recommended: center-feeding)
Max. load with two line entries Imax = 63 A

Protection and safety

SQZ3 phase and sequence relay



SQZ3

Technical features

Supply voltage	[Vn]	400 V AC
Frequency	[Hz]	50/60
Contact type	[A]	1 CO, 250 V, 10 A (cosφ=1) safety switching
Minimum voltage adjustment trimmer	[%]	100 to 70 % of Vn
Intervention delay adjustment trimmer	[s]	2 to 20 (only for min. voltage)
Protection degree	[IP]	20
Operating temperature	[°C]	-10...+55
Power consumption	[W]	1.5
Modules	[n°]	3

SQZ3 phase and sequence relay

SQZ3 relay performs the following continue monitoring functions on three-phase networks at 400 V AC:

- phase sequence
- phase failure
- minimum voltage (adjustable up to 70 % of Vn).

If one of the three failures is detected, the output relay (safety switching contact) intervenes with a delay adjustable from 2 to 20 seconds for minimum voltage only and controls the following:

- acoustic alarms
- motor controlling contactors
- circuit-breakers with coils.

	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	372004	SQZ3	2CSM111310R1331		0.300	1

Protection and safety

E 236 undervoltage monitoring relays



E 236-US 1



E 236-US 2

Technical features

		US 1 US 2
Rated voltage		250 V AC
Rated frequency		48-63 Hz
Measuring range:	supply voltage	3N 400/230 V AC (terminals N-L1-L2-L3)
	overload capacity	3N 459/265 V AC
Switching capacity		device in series (distance < 5 mm): 750 VA (3 A/250 V AC);
		device not in series (distance > 5 mm): 1250 VA (5 A/250 V AC)
Rated insulation voltage		250 V AC (corresponds with IEC 664-1)
Rated surge voltage		4 kV
Tripping delay		ca. 100 ms
Clearence and creepage distance		> 6mm (between contact and electronics)
Mechanical service life		20 x 106 operations
Electrical service life at 10000 VA		2 x 105 operations
Max. switching rate		max. 6/min (1000 VA Ohmic load);
		max. 60/min (100 VA Ohmic load)
Ambient temperature		-25 °C/-13 °F to +55 °C/131 °F
Overvoltage category		III
Accuracy in non-changing environment:	setting tolerance (US 2)	≤ 5 %
	repeat accuracy	±1 %
	temperature effect	≤ 0.1 %/°C
Max terminals cross-section		4 mm^2
Specifications		VDE 0110 and VDE 0435
EMC tests		EM 50081-1 and EN 50082-2
Displays		LED green= supply voltage applied; LED yellow= relay status
Power loss		1.7 W

E 236 undervoltage monitoring relays

Function

The green LED is lit when the supply voltage is applied. If each phase voltage exceeds 195 V (US1) or exceeds the preset threshold value (US2) with respect to the neutral including the hysteresis when switching the device on, the relay switches immediately into the working position. The yellow LED is lit. If at least one phase voltage falls below the threshold value, the relay goes back into its normal position and the yellow LED goes out.
If also phase 2 fails, the green LED goes out, too.
It is indispensable to connect the neutral conductor!

Application - devices with 2CO contacts

For the control of three-phase undervoltage (each phase to neutral) of switchgear, also for installations according to DIN VDE 0100-718 (power installations in hospitals and rooms used for medical purposes outside of hospitals) and DIN VDE 0108-100 (power installations and safety supply in buildings where many people gather).
US 1: 3 phases to neutral with fixed threshold at 195 V; hysteresis fixed 5 %
US 2: 3 phases to neutral with fixed threshold at 160 – 240 V; hysteresis fixed 5 %

Contact	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
2CO	511087	E 236-US 1	2CDE165000R2001		0.095	5
2CO	511094	E 236-US 2	2CDE165010R2001		0.095	5

Protection and safety

E 236 undervoltage monitoring relays



E 236

Technical features

		US 1.1 US 2.1 US 1.1D
Supply circuit		
Supply voltage (= measured voltage)		3N~ 400/230 V AC (terminals N-C1-C2-C3)
Overvoltage permanent		3N~ 459/265 V AC
Rated frequency		48 – 63 Hz (AC sinus)
Rated surge voltage:		4 kV
Overvoltage category		III
Output circuit (isolated two-way-switch)		
Rated voltage		250 V AC
Switiching capacity		1250 VA (5 A/250 V AC)
Continuous current		1250 VA (5 A/250 V AC)
Fuse protection		5 A flink
Serviceable life, mechanical		15x106 switchover cycles
Serviceable life, electric		2x105 switchover cycles at 1.000 VA resistive load
Max. switching rate		max. 6/min at 1.000 VA resistive load
		max. 60/min at 100 VA resistive load
Trip delay		ca. 200 ms
Pick-up delay (US 1.1D)		0.1 – 10 min
Accuracy under constant conditions – setting accuracy (US 2.1/1.1D) – repeat accuracy – temperature effect		≤ 5 % of full scale value ≤ 2 % ≤ 1 %
Ambient temperature		– 25° to + 55 °C
Terminals		1 x 0.5 to 2.5 mm² with/without connector sleeve
		1 x 4 mm² without connector sleeve
		2 x 0.5 to 1.5 mm² with/without connector sleeve
		2 x 2.5 mm² without connector sleeve
Pick-up torque		max. 1 Nm
Mounting position		optional
Vibration resistance		10 to 55 Hz 0.35 mm (IEC 68-2-6)
Shock resistance		15 g 11 ms (IEC 68-2-27)
Reference standards		VDE 0110 und VDE 0435
EMC tests		EN 61000-6-2 and EN 61000-6-4
Back-up fuse		≤ 16 A
Displays	green LED U/t ON	all 3 voltages ok
	green LED U/t flashes	time-out indication
	yellow LED ON/OFF	position of output relay

All measured inputs have to be connected to one phase each. If no three-phase measurement should be carried out, measured inputs have to be connected to one phase to apply the required voltage to all measured inputs. If a load causes inverse voltage exceeding the threshold value Us, phase failures cannot be identified.
A neutral conductor must be connected in any case!

Protection and safety

E 236 undervoltage monitoring relays



E236-US1.1



E236-US2.1



E236-US1.1D

Devices for panel installation onto mounting rails (35 mm) according to DIN EN 60715
mounting depth: 68 mm
mounting width: 17.5 mm = 1 module
color: gray, RAL 7035

Application - devices with 1CO contact
For three-phase undervoltage monitoring (each phase connected to a neutral conductor) of switchgear. Devices with fixed threshold value (US 1.x and US 1.1 D) also for installations according to
DIN VDE 0100-718 (for medical purposes) and DIN VDE 0108-100 (power installations and safety supply in installations for gathering of people).

US 1.1: 3 phases to neutral conductor with fixed threshold value at 195 V; hysteresis fixed at 5 %

US 2.1: 3 phases to neutral conductor with threshold value range of 160 – 240 V; hysteresis fixed at 5 %

US 1.1D: 3 phases to neutral conductor with fixed threshold value at 195 V; hysteresis fixed at 5 %, but with switch-on delay of 0.1 (6 sec.) to 10 min

Undervoltage monitoring device with pick-up delay E236-US 1.1D
If the measurement of the voltage of all phases connected exceeds the switching threshold U_s, including the hysteresis, the time delay (t) starts to run and the (green LED U/t) flashes. Upon expiry of the time delay (t), the output relay R picks up (yellow LED on, green LED U/t flashes). If the measured voltage of one of the connected phases falls below the switching threshold U_s, the output relay de-energizes (yellow LED is off, green LED U/t is off).

Contact	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
1 two-way switch	651776	E 236-US 1.1	2CDE165001R2001		0.05	10
1 two-way switch	651783	E 236-US 2.1	2CDE165011R2001		0.05	10
1 two-way switch	651790	E 236-US 1.1D	2CDE165001R2011		0.05	10

Protection and safety

ISL industrial insulation monitoring devices



ISL

Technical features ISL-A

			ISL-A		
			A 24-48	**A 115 and A 230**	**A 600**
Power consumption		[VA]	3	4	6
ALARM threshold		[kW]	30 - 300 (5 levels, selectable)		
TRIP threshold		[kW]	10 - 60 (5 levels by switches)	10 - 100 (5 levels selectable)	30 - 300 (adjustable by potentiometer)
LED indications	ON		■	■	■
	TRIP		■	■	■
	ALARM			■	
	+/-		■	■	■
Max trip delay		[s]	0.2	2	2.5
Max measuring current		[mA]	0.5	1.8	1.5
Internal impedance		[kW]	50	ISL-A 115: 200 kΩ L+/L- 100 kΩ L/PE ISL-A 230: 400 kΩ L+/L- 200 kΩ L/PE	880 kW L+/L - 450 kW L/PE
TRIP relay output			1 NO-C-NC	2 NO-C-NC	1 NO-C-NC
ALARM relay output			2 NO-C-NC		
Relay contact capacity			max 250 V, 5 A		
Programmed functions	Alarm output		■		
	Fail safe		■		
	Reset		■		
Insulation			2.5 kV60 sec./ 6 kV imp 1.2/50 µs	2.5 kV 60 sec./ 4 kV imp 1.2/50 µs	2.5 kV 60 sec./ 6 kV imp 1.2/50 µs
Operating temperature		[°C]	-10 ÷ 60		
Storage temperature		[°C]	-20 ÷ 70		
Relative humidity			≤ 90%		
Max terminal cross-section		[mm²]	4	2.5	2.5
Protection degree			IP40 front, IP20 enclosure		
Modules		[n°]	3	6	6
Weight		[g]	200	400	400
Reference standards			EN 61010-1, EN 61557-8, EN 61326-1		

Protection and safety

ISL industrial insulation monitoring devices



ISL-A

Technical features ISL-C and ISL-MOT

			ISL-C			ISL-MOT
			C 230	C 440	C 600	MOT 1000
Auxiliary power supply		[V]	220-240 V AC	220-240 V AC	100÷130 V AC/ 220÷240 V AC	220- 240 V AC
Power consumption		[VA]	3	3	5	3
TRIP threshold		[kW]	100	10 -150 (5 levels)	10-100 (5 levels)	0.1-10 MW (8 levels)
LED indications	ON		■	■	■	■
	TRIP		■	■	■	■
	ALARM				■	
Max trip delay		[s]	1	4	5	0.2
Max measuring current		[mA]	0.1		0.25	0.0015
Max measuring voltage		[V]	12 V DC		48	20
Internal impedance		[kW]	250	250	200	AC: 1000 DC: 1500
TRIP relay output			1 NO-C-NC	1 NO-C-NC	2 NO-C-NC	1 NO-C-NC
Relay contact capacity			max 250 V, 5 A			
Insulation			2.5 kV60 sec./4 kV imp 1.2/50 µs			
Operating temperature		[°C]	-10 ÷ 60			
Storage temperature		[°C]	-20 ÷ 70			
Relative humidity			≤ 95%			
Max terminal cross-section		[mm²]	4	4	2.5	4
Protection degree			IP40 front, IP20 enclosure			
Modules		[n°]	3	3	6	3
Weight		[g]	200	200	500	200
Reference standards			EN 61010-1, EN 61557-8, EN 61326-1			

Insulation monitoring devices for voltageless network

Monitored line voltage	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
20-700 V AC/DC	943204	ISL-MOT 1000	2CSM808000R1500		0.300	1

Protection and safety

ISL industrial insulation monitoring devices



ISL-A



ISL-C

Insulation monitoring devices

In IT electrical distribution networks with isolated neutral, the high insulation impedance prevents earth faults from generating currents that would dangerously elevate the potential of exposed conductive parts. Therefore, in case of earth leakage in an IT network it is not necessary to interrupt the supply, but it is still essential to continually monitor the insulation level in order to detect faults and restore optimal functioning of the system.
In industrial installations, IT networks are used when operational continuity is an intrinsic requirement of the production process, due to both technical and economic considerations. Such applications include: metalworking and chemical industries, explosion risk locations, railway lines and vehicles, uninterruptible power supplies, cinema sets, emergency lines, fire water pumps and emergency lighting.

Insulation monitoring devices for AC networks

Max. monitored line voltage	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
220-240 V AC	942801	ISL-C 230	2CSM444000R1500		0.300	1
380-415 V AC	942900	ISL-C 440	2CSM545000R1500		0.300	1
60-760 V AC	943006	ISL-C 600	2CSM656000R1500		0.500	1

Insulation monitoring devices for DC networks

Max. monitored line voltage	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
100-144 V DC	942603	ISL-A 115	2CSM222000R1500		0.500	1
220 V DC	942702	ISL-A 230	2CSM333000R1500		0.500	1
400-600 V DC	498537	ISL-A 600	2CSM249853R1500		0.500	1

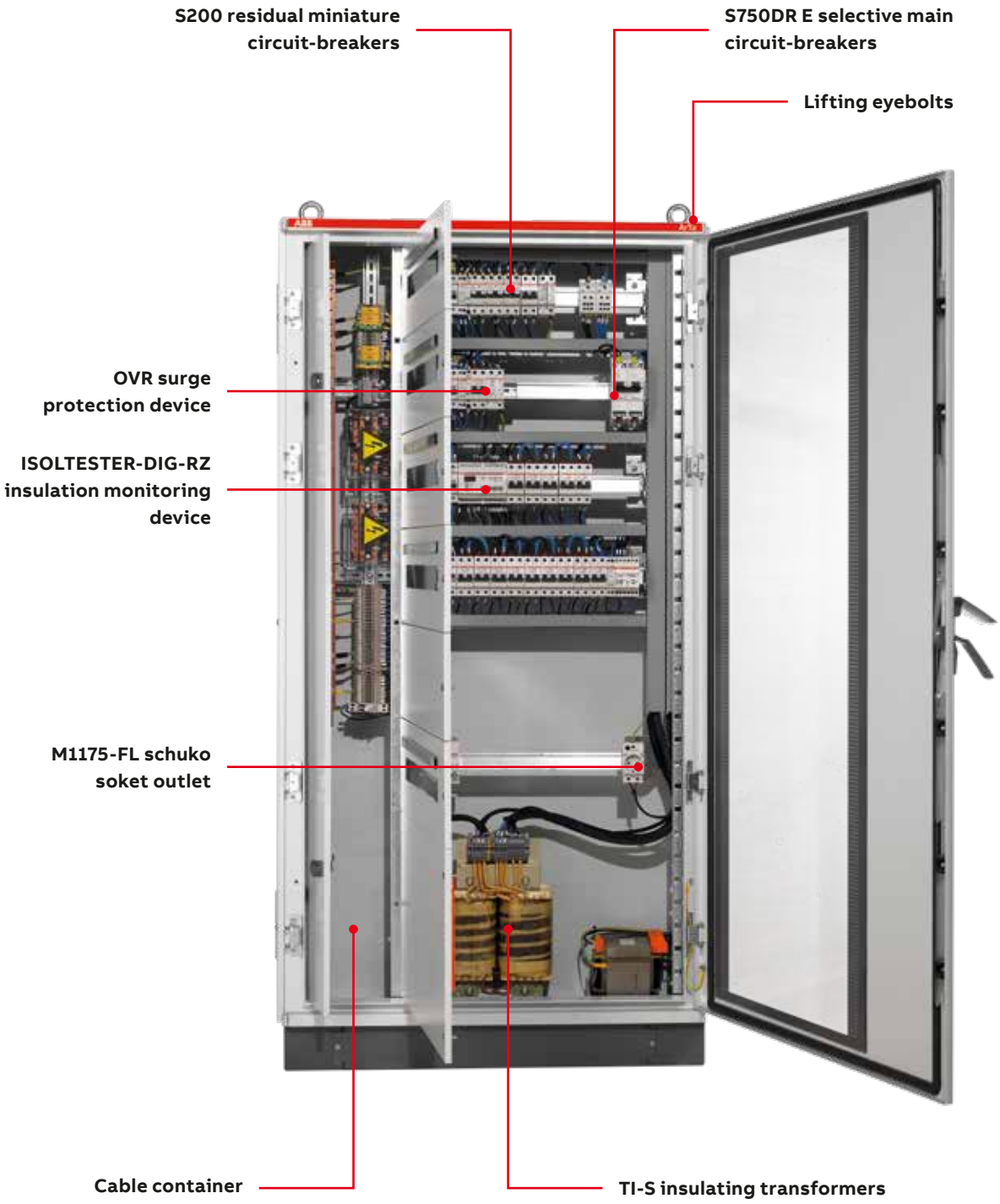
Insulation monitoring devices for AC/DC networks

Monitored line voltage	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
24-28 V AC/DC	942504	ISL-A 24-48	2CSM111000R1500		0.300	1

Notes

H+ Line. Operational continuity

A wide range which ensure safety and reliability in hospital segment





Specifically designed and assembled for medical use according to the IEC EN 61558-2-15, it ensures protection against indirect contacts without the need to interrupt the circuit automatically upon the first grounding fault.
Thanks to its two PT100 temperature probes, on primary and secondary winding, it is possible to monitor the transformer over temperature produced by any eventual overload, and therefore anticipating any breakdown.
The transformer is mounted on the base of the switchboard in order to ease handling and installation operations.



Artu K series floor standing switchboards are equipped with a cable container that makes installation and wiring easier, both for the electrical systems distributed along the false cieling, as under the floor.
It is possible to reach any terminal block in a comfortable way.
Finally, there is a copper equipotential bonding busbar which may lodge up to 20 additional connections, providing grounding connections to all the external masses which are present in the medical premises, and avoiding the creation of further cascade sub-nodes that are not allowed.



This is an insulation monitoring device for group 2 medical locations fully compliant with the IEC 60364-7-710 reference standard. It integrates all the performances established by the reference standard, such as overload and overcurrent monitoring, together with traditional IT system earthing insulation measurement.



Floor standing QSO switchboards are composed of modular ArTu K series enclosures. The switchboards are equipped with venting grooves that guarantee proper natural convection, useful to dissipate the heat produced by the transformer during its normal functioning.

Protection and safety
H+Line products

Solutions for the hospital sector
ABB's extensive experience in the hospital field is certified by several installations in leading hospitals, which represent the current leading-edge in safety and technology. Over the years, ABB has developed an increasingly more complete product with higher performance to meet the needs of more demanding customers and guarantee patient and operator safety.
H+Line products are specifically designed for group 2 medical environments in full compliance with Standard IEC 60364-7-710, specifically:
- Intensive therapy wards, operating theatres, cardio surgical rooms, ICU…
- Day hospitals, clinics, rest homes, dental and veterinary clinics, etc.

H like Hospital

+ like health and first aid

+ like the countless advantages of ABB products





Protection and safety
H+Line products





H+Line product range

ISOLTESTER		Insulation monitoring device for IT-M 230 V circuits
SELVTESTER		Insulation monitoring device for SELV 24 V circuits which supply scialitic lamps.
QSD		Remote signalling panel for visual and acoustic fault indication.
TI		Medical insulating transformers for insulated protection systems.
QSO		Wall mounting and floor standing switchboards for medical locations.

Valid assistance for consultants
Everyone knows what the regulations say. ABB tells you what they don’t say. The “Practical guide to group 2 medical locations” is designed to be a useful daily tool for consultants and installers to help them in each group 2 hospital electrical system designing and installation. The document was developed toghether with ABB customers with the intent to support key regulatory questions with practical solutions, considerations and reccomendations on system design. This way, the “Practical guide to group 2 medical locations” is a valid tool, with plenty of of examples, to support consultants in their daily job.

Protection and safety

ISOLTESTER-DIG insulation monitoring devices



ISOLTESTER-DIG

Technical features

	ISOLTESTER-DIG-RZ	ISOLTESTER-DIG-PLUS/RS
Aux supply	115 - 230 V 50-60Hz	
Power consumption	5 VA max	6 VA max
Rated voltage	24 ÷ 230 V 50-60 Hz	24 ÷ 250 V AC/DC
Measurament current	1 mA max	
Measurement voltage	24 V max	
Control signal	Continuous with digital filter	Composite codified (PLUS only)
Internal impedance	200 kΩ	
Insulation measurement	0 ÷ 999 kΩ	
	resolution 1 kΩ	
	accuracy 5% ± 1 digit	
Impedance measurement	0 ÷ 999 kΩ	
	resolution 1 kΩ	
Temperature measurement	PT100 with 2 or 3 wires, PTC	
	0 ÷ 200 °C,	
	resolution 1 °C,	
	accuracy 2 % ± 1 digit	
Current measurement	CT .../5 A external	
	accuracy 5% ± 1 digit, (adjustable transformation rate 1÷40)	
Capacity measurement	no	0 ÷ 9.9 µF (PLUS only)
		resolution 0.1 µF (PLUS only)
Thresholds	Resistance: 50 ÷ 500 kΩ	
	Impedance: 50 ÷ 500 kΩ	
	Thermal overload: 30 ÷200 °C with PT100	
	Electrical overload: 1 ÷ 99.9 A	
Signals	incorrect wiring (link fail)	
	open/short circuit for temp sensor PT100	
	internal error	
Output	QSD supply (max 2 QSD), max 24 V DC	QSD supply (max 4 QSD), max 24 V DC
	Signals to QSD	
	aux relay for low resistance, NO-C-NC 5A 250 V AC	programmable aux relay, NO-C-NC 5A 250 V AC
	-	Serial output RS485, ModbusRTU protocol
Modules	6	
Weight	0.4 kg	0.5 kg
Mechanical features	fire resistant plastic case	
	sealable transparent front cover	
Terminals	screw terminals 2.5 mm^2	
Protection degree	IP20, IP50 when the cover is closed	
Operating temperature	-10 ÷ 60 °C	
Storage temperature	-25 ÷ 70 °C	
Relative humidity	≤ 95 %	
Insulation	2.5 kV 60 sec.	
Reference standards	CEI-EN 61010-1	
	CEI-EN 61557-8	
	IEC 60364-7-710	
	UNE 20615	
	CEI-EN 61326-1	

Protection and safety

ISOLTESTER-DIG insulation monitoring devices



ISOLTESTER-DIG

Assuring operational continuity in medical environments, even in presence of first earthing fault, it's mandatory in operating theatre group 2 medical locations.
For this reason an IT distribution system with insulating transformer is used to supply medical equipment.

ISOLTESTER-DIG
ISOLTESTER range of insulation monitoring device allows IT-M network monitoring, assuring safety for patients and medical personnel avoiding supply interruption in case of first earthing fault according to IEC 60364-7-710 Standard.

The ISOLTESTER-DIG range assures safety to patients and medical personnel, signalling when a fault to earth occurs. Thanks to its innovative technology it is used to sense the insulation level of the network by far more efficiently compared to traditional insulation monitoring devices.

H+Line

Advanced features	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	884507	ISOLTESTER-DIG-RZ	2CSM244000R1501		0.500	1
RS485, Max-Min values, Programmable relay	568339	ISOLTESTER-DIG-RS	2CSM256833R1521		0.500	1
RS485, Max-Min values, Programmable relay, Noise immunization (with codified signal)	884606	ISOLTESTER-DIG-PLUS	2CSM341000R1501		0.500	1

Protection and safety

SELVTESTER insulation monitoring devices for insulated networks at 24 V AC/DC



SELVTESTER

H+Line

Technical features

Network voltage and auxiliary power supply	24 V 50-60 Hz/DC ± 20 %
Max power dissipation	3 VA – 3 W
Measurement current	max. 0.5 mA
Internal impedance	50 kohm
Threshold	programmable to 10 ÷ 50 kohm (4 levels using microswitches)
Activation delay	about 1 second
Signals	led ON, led ALARM +, led ALARM -
Output	for up to 2 QSD-230/24-C, max. 24 V 1 A remote panels
Operating temperature	-10 ÷ 60 °C
Storage temperature	-20 ÷ 70 °C
Relative humidity	≤ 95 %
Insulation	2.5 kV 60 sec./4 kV imp. 1.2/50µs
Terminal cross-section	4 mm^2
Protection degree	IP20, IP40 when the cover is closed
Modules	3
Weight	200 g
Reference standards	IEC 60364-7-710, EN 61326-1, EN 61010-1

SELVTESTER for insulated networks at 24 V AC/DC

It is used to monitor permanently the insulation of safety extremely low voltage circuits (up to 24 V) especially scialitic lamps.

Function	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Insulation monitoring	884705	SELVTESTER-24	2CSM211000R1511		0.250	1

Protection and safety

QSD remote signalling panel



QSD

H+Line

Technical features

Signals	Green LED network ON Red LED overload ALARM Yellow LED insulation ALARM intermittence 2 Hz dB ALARM, acoustic signaller, emission 2400 Hz
Buttons	TEST and MUTE buttons
Terminal cross-section	2.5 mm^2
Protection degree	IP30
Installation type	universal flush mounted box
Weight	200 g
Operating temperature	-10 ÷ 60 °C
Storage temperature	-25 ÷ +80 °C
Relative humidity	≤ 95 %
Insulation	2500 Vrms 50 Hz 60 s
Cables cross-section	0.35 mm^2 for 300 m
Compatibility	ISOLTESTER-DIG-RZ, ISOLTESTER-DIG-RS, ISOLTESTER-DIG, PLUS, SELVTESTER-24
Reference standards	safety EN 61010-1 product EN 61557-8/IEC 60364-7-710/ UNE 20615 electromagnetic compatibility EN 61326-1

QSD remote signalling panel

They are installed in combination with insulation monitoring devices, to remotely report the signals generated by these devices. They can be installed together with ISOLTESTER-DIG and SELVTESTER-24 and they are compatible also with former versions of insulating monitoring devices. Flush mounting box is already included in the packaging.

Version	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Horizontal	730637	QSD-DIG 230/24	2CSM273063R1521		0.800	1
Vertical	570936	QSD-DIG 230/24 V	2CSM257093R1521		0.800	1

Protection and safety

TI switchboards and devices for medical locations



TI

H+Line

Technical characteristics

		TI 3 TI 3-S	TI 5 TI 5-S	TI 7.5 TI7.5-S	TI 10 TI 10-S
Power	[kVA]	3	5	7.5	10
Rated frequency	[Hz]	50-60			
Power dissipation	[W]	120	150	260	320
Electrical protection class		1			
Thermal insulation class	[°C]	B 130	B 130	F 155	F 155
Operating temperature	[°C]	max 40			
Primary winding voltage	[V]	230			
Secondary winding voltage	[V]	230			
No load current	[A]	< 0.39	< 0.65	< 0.98	< 1.3
Short circuit voltage drop		<3%			
Inrush current	[A]	< 221	< 369	< 553	< 738
Power loss	[W]	120	150	260	320
Winding separation		double insulation			
Metallic shield		■			
Reference standard		IEC-EN 61558-1, IEC-EN 61558-2-15, IEC-EN 62041			
Dimensions	[mm]	205x340x150	240x380x150	240x380x160	277x380x260

Insulating transformers for medical locations

Permanently connected to an IT power supply system, single-phase medical insulating transformers provide galvanic separation between the distribution network and the user load in accordance with IEC EN 61558-2-15 concerning power supply group 2 medical locations.

Rated oitput	PT100	Bbn 801254	Order details		Price 1 piece	Weight 1 piece	Pack unit
kVA		EAN	Type code	Order code		kg	pc.
3		2896005	TI 3	2CSM110000R1541		29.5	1
5		2896104	TI 5	2CSM120000R1541		44.0	1
7.5		2896203	TI 7.5	2CSM130000R1541		50.5	1
10		2521204	TI 10	2CSM140000R1541		73.0	1
3	■	2521402	TI 3-S	2CSM210000R1541		29.5	1
5	■	2521501	TI 5-S	2CSM220000R1541		44.0	1
7.5	■	2521600	TI 7.5-S	2CSM230000R1541		50.5	1
10	■	2521709	TI 10-S	2CSM240000R1541		73.0	1

Accessories

	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Shock absorber	2557920	AMM	2CSM900000R1541		1	4

Protection and safety

QSO selection table

Series	Type	Power [kVA]	Installation type	IT-M section feeder lines	TN-S section feeder lines	PT100	OVR	Unifix L	I/O KNX	SELV 24 V line
S 	QSO 3S Classic	3	wall mounted	2x10A+5x16A +1x25A	-	■				
	QSO 5S Classic	5	wall mounted	2x10A+5x16A +1x25A	-	■				
	QSO 3S Premium	3	wall mounted	2x10A+5x16A +1x25A	1x10A+2x 16A	■				
	QSO 5S Premium	5	wall mounted	2x10A+5x16A +1x25A	1x10A+2x 16A	■				
M 	QSO 3M Classic	3	floor standing	3x10A+7x16A	1x10A	■				
	QSO 5M Classic	5	floor standing	3x10A+7x16A	1x10A	■				
	QSO 7.5M Classic	7.5	floor standing	3x10A+7x16A	1x10A	■				
	QSO 3M Premium	3	floor standing	6x10A+8x16A +1x25	1x10A+2x 16A	■	■			■
	QSO 5M Premium	5	floor standing	6x10A+8x16A +1x25	1x10A+2x 16A	■	■			■
	QSO 7.5M Premium	7.5	floor standing	6x10A+8x16A +1x25	1x10A+2x 16A	■	■			■
L 	QSO 10L Classic	10	floor standing	6x10A+9x16A	1x10A+2x 16A	■				
	QSO 7.5L Premium	7.5	floor standing	6x10A+11x16A +3x25A+1x32A	1x10A+2x 16A	■	■			■
	QSO 10L Premium	10	floor standing	6x10A+11x16A +3x25A+1x32A	1x10A+2x 16A	■	■		■	■

Protection and safety

QSO switchboards and components for medical locations



QSO

Technical features

	QSO wall type		QSO floor type	
Rated operational voltage (Ue)	230 V ~ ± 15%			
Rated frequency	50 - 60 Hz			
Number of phases	1 + N ~/PE			
Rated voltage of auxiliary service circuits	24 - 230 V ~			
Rated insulation voltage (Ui)	300 V - *2500 V			
Earthing system	TT/TN-S			
Maximum prospective short circuit current to the input terminals (Icc)	10 kA RMS Sym ***			
Max. altitude	2000 m a.s.l.			
Pollution degree	1 **			
Degree of protection against impacts (IK code) EN 50102 I	K 09 (5 kg - 200 mm)			
Degree of relative humidity at temperature °C	50 % with max. temp. +40 °C			
Operating temperature	-5 °C - +55 °C			
Storage temperature	-25 °C - +40 °C			
Protection degree EN 60529	QSO 3S Classic	IP 40	QSO 3M Classic	IP 54
	QSO 5S Classic	IP 40	QSO 5M Classic	IP 54
	QSO 3S Premium	IP 40	QSO 5M Premium	IP 54
	QSO 5S Premium	IP 40	QSO 7.5M Premium	IP 54
			QSO 10L Classic	IP 54
			QSO 7.5L Premium	IP 54
			QSO 10L Premium	IP 54

* Dielectric strength test voltage.
** Corresponds to no pollution or only dry and non-conductive pollution.
*** Value conditioned by upstream coordination with NH 00 100A gL-gG fuses

Protection and safety

QSO switchboards and components for medical locations



QSO S



QSO M



QSO L

Electrical switchboard for medical locations

QSO switchboards for operating theatres represent the ideal solution for distribution within group 2 medical locations, in compliance with the requirements of IEC standard 64-8/7-710. Three series are available: S, M and L. Each one can be customized with two layouts. The CLASSIC version contains the instrumentation essential for protection against direct contacts, while the PREMIUM version also has, depending on the type of switchboard, additional devices intended for:

- emergency power cut-off of operating theatre circuits outside of the patient area (lighting, radiology sockets, etc.)
- 24 V SELV line for supplying scialytic lamps
- overvoltage protection
- Unifix L fast-wiring system
- I/O module for managing xon alarms through KNX protocol

ABB provides, for its switchboards for operating theatres, the declaration of conformity required to commission the system, ensuring the installer that the system is built in compliance with technical standards. To ensure the best efficiency of the QSO will be delivered in a new wooden packing.

S series switchboards for medical locations

Applications: surgery clinics, post-op recovery rooms, analysis laboratories, dental offices, veterinary clinics

Power	Installation type	TN-S section feeder lines	IT-M section feeder lines	Bbn 801254	Order details		Price 1 piece	Weight 1 piece	Pack unit
kVA				EAN	Type code	Order code		kg	pc.
3	wall mounted		2x10A +5x16A +1x25A	2611226	QSO 3S Classic	2CSM261122R1551		73	1
5	wall mounted		2x10A +5x16A +1x25A	2736929	QSO 5S Classic	2CSM273692R1551		87.5	1
3	wall mounted	1x10A +2x16A	2x10A +5x16A +1x25A	2736028	QSO 3S Premium	2CSM273602R1551		75	1
5	wall mounted	1x10A +2x16A	2x10A +5x16A +1x25A	2736820	QSO 5S Premium	2CSM273682R1551		90	1

M series switchboards for medical locations

Applications: Day hospital rooms, medium sized operating theatres, ICU rooms

Power	Installation type	TN-S section feeder lines	IT-M section feeder lines	Bbn 801254	Order details		Price 1 piece	Weight 1 piece	Pack unit
kVA				EAN	Type code	Order code		kg	pc.
3	floor standing	1x10A	3x10A +7x16A	2735922	QSO 3M Classic	2CSM273592R1551		126	1
5	floor standing	1x10A	3x10A +7x16A	2736721	QSO 5M Classic	2CSM273672R1551		141	1
7.5	floor standing	1x10A	3x10A +7x16A	2735823	QSO 7.5M Classic	2CSM273582R1551		147.5	1
3	floor standing	1X10A +2x16A	6x10A +8x16A +1x25A	2736622	QSO 3M Premium	2CSM273662R1551		127	1
5	floor standing	1X10A +2x16A	6x10A +8x16A +1x25A	2735724	QSO 5M Premium	2CSM273572R1551		142	1
7.5	floor standing	1X10A +2x16A	6x10A +8x16A +1x25A	2736523	QSO 7.5M Premium	2CSM273652R1551		147.5	1

H+Line

Protection and safety

QSO switchboards and components for medical locations

L series switchboards for medical locations

Applications: operating theatres, intensive care rooms, cardiac operating rooms

Power	Instal-lation type	TN-S section feeder lines	IT-M section feeder lines	Bbn 801254	Order details		Price 1 piece	Weight 1 piece	Pack unit
kVA				EAN	Type code	Order code		kg	pc.
10	floor standing	1x10A +2x16A	6x10A +9x16A	2735625	QSO 10L Classic	2CSM273562R1551		190	1
7.5	floor standing	1x10A +2x16A	6x10A +11x16A +3x25A +1x32A	2736424	QSO 7.5L Premium	2CSM273642R1551		168	1
10	floor standing	1x10A +2x16A	6x10A +11x16A +3x25A +1x32A	2735526	QSO 10L Premium	2CSM273552R1551		193.5	1

Electrical installation solutions for buildings
Command and signaling

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The details make the difference
Switch disconnector SD 200

Patented twin terminals with captive screws: highest comfort, safety and flexibility

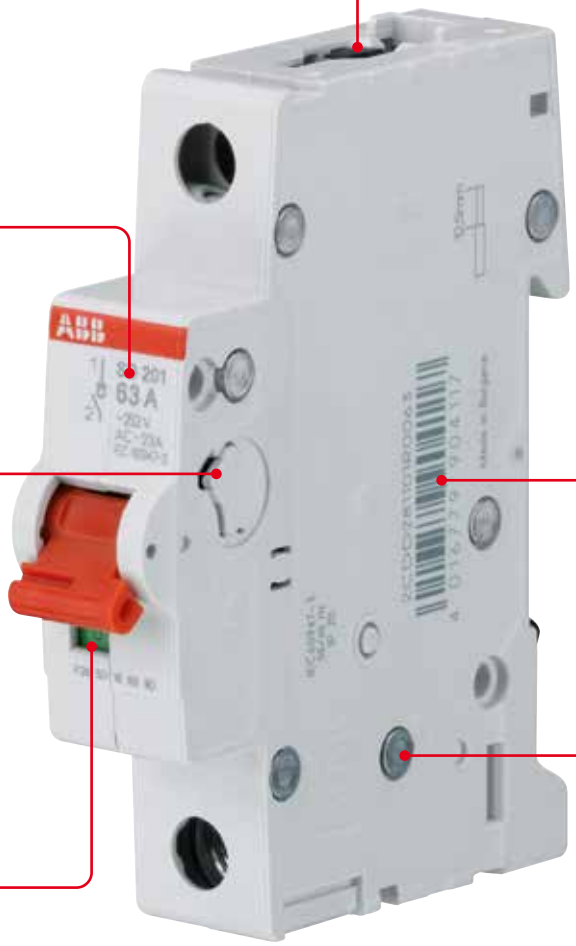
Easy product coding – easy identification: basic technical information already integrated into the name

Fully compatible with all System pro M devices and accessories

Laser printing: scratch and solvent resistant marking

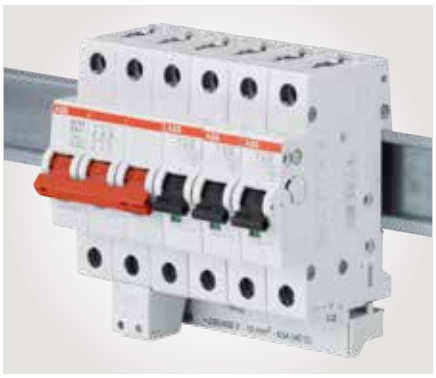
Patented housing design: environmental friendly and performance-optimized

Real contact position indication, directly connected to the moving contact, for more comfort and safety

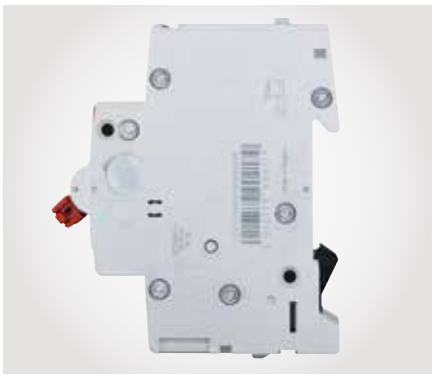




Contact position indication
The switch disconnector SD 200 is suited with a real contact position indication (real CPI). You can easily identify, if the SD 200 is in the ON or the OFF position – easy and safe maintenance work is possible.
The position of the toggle and the red/green display leaves no doubt about the present switching position, while the latter offers additional security, as the exact position of the inner contacts is always displayed.Thus, the device always supplies reliable information in the event of an error.



Wide range of accessories
SD 200 is fully compatible to the complete range of System pro M compact accessories like
- Auxiliary contacts, to be mounted on the left side, the right side or bottom fitting
- Shunt trips
- Undervoltage release
- Motor operating devices



PATENTED – Housing Design
By using state-of-the-art housing material, ABB is taking care of the environment. With the latest generation of halogen free thermoplastics for SD 200 it's possible to recycle the switch disconectors completely without environmental pollution. The material works for the stability.



Laser printing
All labels on the SD 200, as the approvals on the dome, technical details and the product identification, are printed by a laser. The laser printing ensures a friction, scratch and solvent resistant marking on the switch disconectors for easy identification in case of maintenance or replacements. For control and acceptance procedure it is important to see all markings also in the mounted position.



Highest performance
With a rated voltage of 253/440 V AC, a rated conditional short-circuit current of 25 kA, terminals with protection from misconnection, a "Real CPI" switching position display, as well as full compatibility with all MCB accessories, the SD 200 is unique in its field of application. SD 200 comply with IEC/EN 60947-3.



PATENTED – IP 20 finger safe terminals
The SD 200 are equipped with 35 mm^2 and 10 mm^2 cylinder lift twin terminals for challenging industrial use. Cross wiring can easily be realized by inserting the busbars into the rear terminal part and the incoming wires into the front part.

Command and signaling
Switch disconnectors selection table

The SD 200 and SHD 200 extend the proven System pro M compact® series by ranges of switch disconnectors which provides state-of-the-art safety and comfort. Both are available with 1 to 4 poles with rated currents from 16 to 63 A and provides disconnection properties according to IEC/EN 60947-3.

The SD 200 offers performance on a different level. With a rated voltage of 253/440 V AC, a rated conditional short-circuit current of 25 kA, terminals with protection from misconnection and a “Real CPI” contact position indication the range is unique in its field of application. In addition SD 200 is fully compatible with all MCB accessories.

The SHD 200 has a rated voltage of 240/415 V AC. A rated conditional short-circuit current of 10 kA enables a wide range of applications.

The laser printing and the design of the devices allow a consistent optical appearance in the distribution board.

The laser printing and the design of the devices allow a consistent optical appearance in the distribution board. A VDE/CCC/EAC and KEMA approval ensures a wide scope of applications. For technical differences between the ranges please refer to the selection table on the left page.



Command and signaling

SD 200 and SHD 200 switch disconnector ranges





Series			SD 200	SHD 200	E 200
Standards and approvals			IEC/EN 60947-3 VDE/CCC/EAC/KEMA	IEC/EN 60947-3 VDE/CCC/EAC/KEMA	IEC/EN 60947-3 VDE/CCC/KEMA
Rated currents	16...63 80...125	[A]	16/25/32/40/50/63 –	16/25/32/40/50/63 –	– 80/100/125
Rated voltage		[V AC]	253/440	240/415	240/415
Short circuit withstand capacity		[kA]	25	10	80...100 A : 25; 125 A : 6
Utilization category			AC-23A	AC-22A	AC-22A
Electrical lifetime		[Ops.]	I_e < 32 A: 20,000 (AC) I_e ≥ 32 A: 10,000 (AC)	I_e < 32 A: 20,000 (AC) I_e ≥ 32 A: 10,000 (AC)	I_e < 100 A: 1,500 (AC) I_e ≥ 125 A: 1,000 (AC)
Terminal cross section		[mm²]	35	25	50
Terminal			Cylinder lift terminal	Cage terminal	Cage terminal
Two terminal openings for conductor and busbar			Yes	No	No
Safety wire guard			Yes	No	No
Contact position indication			Marking on toggle (I ON/0 OFF) Real CPI (red ON/green OFF)	Marking on toggle (I ON/0 OFF)	Marking on toggle (I ON/0 OFF)
Combination with auxiliary elements					
Auxiliary contacts			Right side Left side Bottom side	No	Right side
Shunt trip			Yes	No	No
Undervoltage release			Yes	No	No
Motor operated remote control			Yes	No	No
Padlock			Yes	Yes	Yes
Removal without disassembling of the busbar			Yes	No	Yes

Command and signaling

SD 200 switch disconnector



SD 201

Technical data

Electrical data	
Standards	IEC/EN 60947-3
Poles	1P, 2P, 3P, 4P
Rated current I_e	16 A, 25 A, 32 A, 40 A, 50 A, 63 A
Utilization category	AC-23A, DC-21A
Rated voltage U_e	1P: 253 V AC, 60 V DC 2P: 440 V AC, 125 V DC 3...4P: 440 V AC
Insulation voltage U_i	440 V AC
Max. power frequency recovery voltage U_{max}	1P: 266 V AC, 63 V DC 2P: 462 V AC, 131 V DC 3...4P: 462 V AC
Min. operating voltage $U_{Bmin.}$	12 V AC
Rated frequency f	50/60 Hz, DC
Suitable for isolation	Yes
Rated conditional short-circuit current	25 kA in series with NH 00 ≤ 63 A gG
Overvoltage category	III
Pollution degree	3
Rated impulse withstand voltage $U_{imp.}$ (1.2/50 µs)	4 kV (test voltage 6.2 kV at sea level; 5 kV at 2,000 m)
Dielectric test voltage	2 kV (50/60 Hz, 1 min.)
Mechanical data	
Housing	Insulation group I, RAL 7035
Toggle	Insulation group II, red, sealable
Contact position indication	Marking on toggle, I ON / 0 OFF Real CPI (green OFF/red ON)
Protection degree acc. to EN 60529	IP20 / IP40 in enclosure with cover
Electrical endurance	I_e < 32 A: 20,000 ops. (AC), 1,500 ops. (DC) I_e ≥ 32 A: 10,000 ops. (AC), 1,500 ops. (DC)
Mechanical endurance	20,000 ops.
Shock resistance acc. to IEC/EN 60068-2-27	25g, 2 shocks, 13 ms
Vibration resistance acc. to IEC/EN 60068-2-6	5g, 20 cycles at 5...150...5 Hz with load 0.8 I_n
Environmental conditions (damp heat cyclic) acc. to IEC/EN 60068-2-30	28 cycles with 55 °C/90-96% and 25 °C/95-100% [°C/RH]
Ambient temperature	-25 ... +55 °C
Storage temperature	-40 ... +70 °C
Installation	
Terminal	**Cylinder lift terminal**
Safety wire guard	**Yes**
Two terminal openings for conductor and busbar	**Yes**
Cross-section of conductors	**35 mm²**
Cross-section of busbars	**10 mm²**
Torque	**2.8 Nm**
Screwdriver	**No. 2 Pozidriv**
Mounting	**On DIN rail 35 mm acc. to EN 60715 by fast clip**
Mounting position	**Optional**
Removal without disassembling of the busbar	**Yes**
Supply	**Optional**

Command and signaling

SD 200 switch disconnector

Dimensions and weight	
Mounting dimensions acc. to DIN 43880	Mounting dimension 1
Pole dimensions (H x D x W)	88 x 69 x 17.5 mm
Pole weight	Approx. 85 g
Combination with auxiliary elements	
Auxiliary contact	**Yes**
Signal/auxiliary contact	**Yes**
Shunt trip	**Yes**
Undervoltage release	**Yes**
Motor operating device	**Yes**
Padlock	**Yes**
Approvals	
	CE and RoHS-conform **Approvals: VDE/CCC/EAC/KEMA**

Command and signaling

SD 200 switch disconnector



SD 201



SD 202



SD 203



SD 204

SD 200

Switch disconnector acc. to IEC/EN 60947-3 for panel installation onto DIN rail (35 mm)
Mounting depth: 68 mm
Mounting width: per pole = 17.5 mm = 1 module
Colour: grey, RAL 7035
Colour of switch lever: red RAL 3000

Special features

- Isolating characteristics acc. to IEC/EN 60947-3
- Clear contact position indication in red/green (“Real CPI”)
- Highest performance at an increased voltage level: 25 kA conditional short-circuit current at U_e = 253/440 V AC acc. to IEC/EN 60947-3
- Protection degree IP20 = finger safe
- 35 mm² cylinder lift terminal with 2 terminal openings for two wires or one wire and one busbar for cross wiring
- Bottom fixed auxiliary contact as accessory for a space saving installation or upgrade of existing assemblies without additional mounting width
- Consistent design to other System pro M DIN rail products
- Cross wiring with MCBs or RCDs using busbars PS
- Durable device identification due to laser labeling
- Captive screws
- Compatibility with all MCB accessories
- Approved acc. to IEC/EN 60947-3 for international use

Ordering details

Rated current: 16 A

Poles	Rated voltage	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
	V AC	EAN	Type code	Order code	piece	kg	pc.
1	253	904063	SD201/16	2CDD281101R0016		0.085	10
2	440	904124	SD202/16	2CDD282101R0016		0.170	5
3	440	904186	SD203/16	2CDD283101R0016		0.255	1
4	440	904247	SD204/16	2CDD284101R0016		0.340	1

Rated current: 25 A

Poles	Rated voltage	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
	V AC	EAN	Type code	Order code	piece	kg	pc.
1	**253**	**904070**	**SD201/25**	**2CDD281101R0025**		**0.085**	**10**
2	**440**	**904131**	**SD202/25**	**2CDD282101R0025**		**0.170**	**5**
3	**440**	**904193**	**SD203/25**	**2CDD283101R0025**		**0.255**	**1**
4	**440**	**904254**	**SD204/25**	**2CDD284101R0025**		**0.340**	**1**

Rated current: 32 A

Poles	Rated voltage	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
	V AC	EAN	Type code	Order code	piece	kg	pc.
1	253	904087	SD201/32	2CDD281101R0032		0.085	10
2	440	904148	SD202/32	2CDD282101R0032		0.170	5
3	440	904209	SD203/32	2CDD283101R0032		0.255	1
4	440	904261	SD204/32	2CDD284101R0032		0.340	1

Command and signaling

SD 200 switch disconnector



SD 201



SD 202



SD 203



SD 204

Ordering details

Rated current: 40 A

Poles	Rated voltage	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
	V AC	EAN	Type code	Order code	piece	kg	pc.
1	253	904094	SD201/40	2CDD281101R0040		0.085	10
2	440	904155	SD202/40	2CDD282101R0040		0.170	5
3	440	904216	SD203/40	2CDD283101R0040		0.255	1
4	440	904278	SD204/40	2CDD284101R0040		0.340	1

Rated current: 50 A

Poles	Rated voltage	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
	V AC	EAN	Type code	Order code	piece	kg	pc.
1	253	904100	SD201/50	2CDD281101R0050		0.085	10
2	440	904162	SD202/50	2CDD282101R0050		0.170	5
3	440	904223	SD203/50	2CDD283101R0050		0.255	1
4	440	904285	SD204/50	2CDD284101R0050		0.340	1

Rated current: 63 A

Poles	Rated voltage	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
	V AC	EAN	Type code	Order code	piece	kg	pc.
1	253	904117	SD201/63	2CDD281101R0063		0.085	10
2	440	904179	SD202/63	2CDD282101R0063		0.170	5
3	440	904230	SD203/63	2CDD283101R0063		0.255	1
4	440	904292	SD204/63	2CDD284101R0063		0.340	1

Command and signaling

SHD 200 switch disconnector



SHD 201

Technical data

Electrical data	
Standards	IEC/EN 60947-3
Poles	1P, 2P, 3P, 4P
Rated current I_e	16 A, 25 A, 32 A, 40 A, 50 A, 63 A
Utilization category	AC-22A, DC-21A
Rated voltage U_e	1P: 240 V AC, 60 V DC 2P: 415 V AC, 125 V DC 3…4P: 415 V AC
Insulation voltage U_i	440 V AC
Max. power frequency recovery voltage U_{max}	1P: 252 V AC, 63 V DC 2P: 436 V AC, 131 V DC 3…4P: 436 V AC
Min. operating voltage $U_{Bmin.}$	12 V AC
Rated frequency f	50/60 Hz, DC
Suitable for isolation	Yes
Rated conditional short-circuit current	10 kA in series with NH 00 ≤ 63 A gG
Overvoltage category	III
Pollution degree	3
Rated impulse withstand voltage $U_{imp.}$ (1.2/50 µs)	4 kV (test voltage 6.2 kV at sea level; 5 kV at 2,000 m)
Dielectric test voltage	2 kV (50/60 Hz, 1 min.)
Mechanical data	
Housing	Insulation group II, RAL 7035
Toggle	Insulation group II, red, sealable
Contact position indication	Marking on toggle, I ON / 0 OFF
Protection degree acc. to EN 60529	IP20 / IP40 in enclosure with cover
Electrical endurance	I_e < 32 A: 20,000 ops. (AC), 1,500 ops. (DC) I_e ≥ 32 A: 10,000 ops. (AC), 1,500 ops. (DC)
Mechanical endurance	20,000 ops.
Shock resistance acc. to IEC/EN 60068-2-27	25g, 2 shocks, 13 ms
Vibration resistance acc. to IEC/EN 60068-2-6	5g, 20 cycles at 5…150…5 Hz with load 0.8 I_n
Environmental conditions (damp heat cyclic) acc. to IEC/EN 60068-2-30	28 cycles with 55 °C/90-96% and 25 °C/95-100% [°C/RH]
Ambient temperature	-25 … +55 °C
Storage temperature	-40 … +70 °C
Installation	
Terminal	Cage terminal
Safety wire guard	No
Two terminal openings for conductor and busbar	No
Cross-section of conductors	25 mm^2
Torque	2.0 Nm
Screwdriver	No. 2 Pozidriv
Mounting	On DIN rail 35 mm acc. to EN 60715 by fast clip
Mounting position	Optional
Removal without disassembling of the busbar	No
Supply	Optional

Command and signaling
SHD 200 switch disconnector

Dimensions and weight	
Mounting dimensions acc. to DIN 43880	Mounting dimension 1
Pole dimensions (H x D x W)	85 x 69 x 17.5 mm
Pole weight	Approx. 75 g
Combination with auxiliary elements	
Auxiliary contact	No
Signal/auxiliary contact	No
Shunt trip	No
Undervoltage release	No
Motor operating device	No
Padlock	Yes
Approvals	
	CE and RoHS conform **Approvals: VDE/CCC/EAC/KEMA**

Command and signaling

SHD 200 switch disconnector



SHD 201



SHD 202



SHD 203



SHD 204

SHD 200

Switch disconnector acc. to IEC/EN 60947-3 for panel installation onto DIN rail (35 mm)
Mounting depth: 69 mm
Mounting width: per pole = 17.5 mm = 1 module
Colour: grey, RAL 7035
Colour of switch lever: red RAL 3000

Special features

- Isolating characteristics acc. to IEC/EN 60947-3
- Protection degree IP20 = finger safe
- 25 mm² cage terminal
- Consistent design to all other System pro M DIN rail products
- Cross wiring with MCBs or RCDs using busbars PS
- Durable device identification due to laser labeling
- Captive screws
- Locking device as accessory for unauthorized ON/OFF switching
- Approved acc. to IEC/EN 60947-3 for international use

Ordering details

Rated current: 16 A

Poles	Rated voltage	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
	V AC	EAN	Type code	Order code	piece	kg	pc.
1	240	904308	SHD201/16	2CDD271111R0016		0.075	10
2	415	904360	SHD202/16	2CDD272111R0016		0.150	5
3	415	904421	SHD203/16	2CDD273111R0016		0.225	1
4	415	904483	SHD204/16	2CDD274111R0016		0.300	1

Rated current: 25 A

Poles	Rated voltage	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
	V AC	EAN	Type code	Order code	piece	kg	pc.
1	240	904315	SHD201/25	2CDD271111R0025		0.075	10
2	415	904377	SHD202/25	2CDD272111R0025		0.150	5
3	415	904438	SHD203/25	2CDD273111R0025		0.225	1
4	415	904490	SHD204/25	2CDD274111R0025		0.300	1

Rated current: 32 A

Poles	Rated voltage	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
	V AC	EAN	Type code	Order code	piece	kg	pc.
1	240	904322	SHD201/32	2CDD271111R0032		0.075	10
2	415	904384	SHD202/32	2CDD272111R0032		0.150	5
3	415	904445	SHD203/32	2CDD273111R0032		0.225	1
4	415	904506	SHD204/32	2CDD274111R0032		0.300	1

Command and signaling

SHD 200 switch disconnector



SHD 201



SHD 202



SHD 203



SHD 204

Ordering details

Rated current: 40 A

Poles	Rated voltage	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
	V AC	EAN	Type code	Order code	piece	kg	pc.
1	240	904339	SHD201/40	2CDD271111R0040		0.075	10
2	415	904391	SHD202/40	2CDD272111R0040		0.150	5
3	415	904452	SHD203/40	2CDD273111R0040		0.225	1
4	415	904513	SHD204/40	2CDD274111R0040		0.300	1

Rated current: 50 A

Poles	Rated voltage	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
	V AC	EAN	Type code	Order code	piece	kg	pc.
1	240	904346	SHD201/50	2CDD271111R0050		0.075	10
2	415	904407	SHD202/50	2CDD272111R0050		0.150	5
3	415	904469	SHD203/50	2CDD273111R0050		0.225	1
4	415	904520	SHD204/50	2CDD274111R0050		0.300	1

Rated current: 63 A

Poles	Rated voltage	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
	V AC	EAN	Type code	Order code	piece	kg	pc.
1	240	904353	SHD201/63	2CDD271111R0063		0.075	10
2	415	904414	SHD202/63	2CDD272111R0063		0.150	5
3	415	904476	SHD203/63	2CDD273111R0063		0.225	1
4	415	904537	SHD204/63	2CDD274111R0063		0.300	1

Command and signaling

E 200 switches



E 200

Technical data E200 80...125 A

Electrical Data		
Standards	DIN EN 60947-3 (VDE0660-107); IEC/EN 60947-3	
Number of poles	1P, 2P, 3P, 4P	
Rated current I_e	80...125 A	
Rated voltage U_e	240/415 V AC; 60 V DC	
Rated frequency f	50/60 Hz; DC	
Utilization category	I_e 80 ... 125 A	AC-22A (1..4-pole)
		DC-21B (1/2-pole)
	Acc. to DIN EN 60947-3 (VDE0660-107); IEC/EN 60947-3	
Protection fuse	NH 00 gG ≤ Rated current E200	
Positive opening	Acc. to DIN VDE 0113	
Rated conditional short-circuit current	80 ... 100 A (1- to 4-pole): 25 kA, 125 A (1- to 4-pole): 6 kA	
Surge withstand capability U_{imp}	4 kV (EN 60947-1)	
Min. voltage $U_{min.}$	12 V AC/DC bei 0.1 VA	
Min. contact loading	24 V AC; 4 mA	
Mechanical Data		
Housing	Grey, RAL 7035	
Toggle	Red (RAL 3000) / grey (RAL 7000), sealable	
Contact position indication	On toggle (I ON / 0 OFF), on dome (I / 0)	
Protection degree acc. to IEC/EN 60529	IP10, IP40 in enclosure with cover	
Electrical endurance	80 ... 100 A: 1,500 ops., 125 A: 1,000 ops.	
Mechanical endurance	20,000 ops.	
Environmental conditions acc. to IEC/EN 60068-2-30	Constant climate 23/83, 40/93, 55/20 [°C/RH]	
	Alternating climate 25/95 - 40/93 [°C/RH]	
Ambient temperature	-25 ... +55 °C	
Storage temperature	-40 ... +70 °C	
Installation		
Terminal size	2.5 to 50 mm^2	
Cross-section busbar	≥ 16 mm^2	
Tigthening torque	2.5 Nm	
Screw driver	Nr. 2 Pozidriv	
Mounting	On DIN rail 35 mm acc. to EN 60715 by fast clip	
Mounting position	Any	
Supply	Any	
Dimensions and weight		
Mounting dimensions acc. to DIN 43880	Mounting dimension 1	
Pole dimensions (H x D x W)	85 x 70 x 17.5 mm	
Pole weight	Ca. 95 g	
Accessories		
Auxiliary contact	Max. 3x S2C-H 6R	
Approvals	CE and RoHS conform	
	Approvals: VDE, CCC, KEMA, EAC	

Command and signaling

E 200 switches



E 201

E 200 switches
Isolator for panel installation onto DIN rail acc. to DIN EN 60715
Mounting depth: 70 mm
Mounting width: per pole = 17.5 mm = 1 module
Colour: grey, RAL 7035
Colour of switch lever: red RAL 3000 (r); grey RAL 7000 (g)

Special features
- Fast removal without dismantling of the busbar
- Captive screws with recessed/slotted head, Pozidriv size 2
- Add-on of up to 3 auxiliary contact S2C-H6R possible
- Integrated lay-on edge for labeling system ILS
- Locking device as accessory for unauthorized ON/OFF
- Approval: VDE, CCC, KEMA, EAC

Ordering details

Rated current: 80 A

Poles	Rated voltage	Power loss	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	V AC	W	EAN	Type code	Order code		kg	pc.
1NO	240	2.60	645737	E201/80g	2CDE281001R1080		0.095	10
1NO	240	2.60	645744	E201/80r	2CDE281001R0080		0.095	10
2NO	415	5.15	645911	E202/80g	2CDE282001R1080		0.190	5
2NO	415	5.15	645928	E202/80r	2CDE282001R0080		0.190	5
3NO	415	7.75	646093	E203/80g	2CDE283001R1080		0.290	3
3NO	415	7.75	646109	E203/80r	2CDE283001R0080		0.290	3
4NO	415	10.30	646277	E204/80g	2CDE284001R1080		0.390	2
4NO	415	10.30	646284	E204/80r	2CDE284001R0080		0.390	2

Rated current: 100 A

Poles	Rated voltage	Power loss	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
	V AC	W	EAN	Type code	Order code	piece	kg	pc.
1NO	240	3.95	645751	E201/100g	2CDE281001R1100		0.095	10
1NO	240	3.95	645738	E201/100r	2CDE281001R0100		0.095	10
2NO	415	7.90	645935	E202/100g	2CDE282001R1100		0.190	5
2NO	415	7.90	645942	E202/100r	2CDE282001R0100		0.190	5
3NO	415	11.85	646116	E203/100g	2CDE283001R1100		0.290	3
3NO	415	11.85	646123	E203/100r	2CDE283001R0100		0.290	3
4NO	415	15.80	646291	E204/100g	2CDE284001R1100		0.390	2
4NO	415	15.80	646307	E204/100r	2CDE284001R0100		0.390	2

Rated current: 125 A

Poles	Rated voltage	Power loss	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
	V AC	W	EAN	Type code	Order code	piece	kg	pc.
1NO	240	6.10	645775	E201/125g	2CDE281001R1125		0.095	10
1NO	240	6.10	645782	E201/125r	2CDE281001R0125		0.095	10
2NO	415	12.20	645959	E202/125g	2CDE282001R1125		0.190	5
2NO	415	12.20	645966	E202/125r	2CDE282001R0125		0.190	5
3NO	415	18.30	646130	E203/125g	2CDE283001R1125		0.33	3
3NO	415	18.30	646147	E203/125r	2CDE283001R0125		0.33	3
4NO	415	24.35	646314	E204/125g	2CDE284001R1125		0.44	2
4NO	415	24.35	646321	E204/125r	2CDE284001R0125		0.44	2

Command and signaling

E 463/3, E 480/3 switches



E463/3-KB



E463/3-SL



SA 2

Technical features	
Switching capacity	1.25 In; 1.1 Un; cosφ = 0.6 according to DIN VDE 0632
Rated voltage	250/400 V a.c.
Connection cross section	1 mm² stranded wire/0.5 mm² wire up to 25 mm²
Pick-up torque	3 Nm max.
Positive opening	according to DIN VDE 0113
Ambient temperature	-25°C to +55°C
Storage temperature	-40°C to +70°C
Poles	3 NO
Short-circuit withstanding capacity	10 kA, 400 V a.c.

E 463/3-KB, E 480/3-KB, E 463/3-SL switches

Rated current	Power loss	Rated voltage	Bbn 7612270	Order details		Price 1	Weight 1 piece	Pack unit
(per pole)	W	V AC	EAN	Type code	Order code	piece	kg	pc.
63	5.4	250/400	932528	E 463/3-KB	2CCE160300R0131		0.190	1
63	5.5	250/400	932535	E 463/3-SL	2CCE160301R0131		0.195	1
80	9.9	250/400	932542	E 480/3-KB	2CCE180300R0141		0.210	1

Padlock for E 463/3-SL with 2 keys

	Bbn 7612270	Order details		Price 1	Weight 1 piece	Pack unit
	EAN	Type code	Order code	piece	kg	pc.
	587704	SA 2	GJF1101903R0002		0.020	1

Command and signaling

S800PV series 1500 switch disconnector



S800PV-SP

		S802PV-M-H	S800PV-SD
General Data			
Tripping characteristics		none	none
Standards		IEC / EN 60947-3	IEC / EN 60947-3 and Annex D
Poles		2 (polarized)	2 ... 4
Rated current I_e	A	32, 63, 100	32, 63, 125
Rated insulation voltage U_i acc. to IEC/EN 60664-1	V	DC 1500	DC 1500
Rated impulse withstand voltage $U_{imp.}$ (1.2/50 µs)	kV	8	8
Overvoltage category		III*	III*
Pollution degree		2	2
Suitability for isolation		yes	yes
Data acc. to IEC/EN 60947-3			
Rated operational voltage U_e	V	DC 1000 V: 2-pole	DC 800V: 2-pole DC 1200V: 3-Pole DC 1500 V: 4-pole
Min. operating voltage	V	-	-
Rated short-term withstand current I_{cw}	kA	1.5	1.5
Rated short-circuit making capacity I_{cm}	kA	0.5	0.5
Utilisation category		DC-21 A	DC-21 A, DC-PV2
Electrical and Mechanical Endurance	ops.	1500 electrical / 10000 mechanical	32, 63 A: 1500 electrical / 10000 mechanical 125 A: 1000 electrical / 8000 mechanical
Mechanical Data			
Housing		Material group I, RAL 7035	Material group I, RAL 7035
Toggle		black, lockable	black, lockable
Classification acc. To NF F 126-101, NF F 16-102		-	-
Protection degree acc. to EN 60529		IP20; IP40 (actuating end only)	IP20; IP40 (actuating end only)
Shock resistance acc. to IEC/EN 60068-2-30		IEC 61373 Cat. 1 Class B, 5 g / 30 ms acc. To IEC 60068-27 Test Ea	IEC 61373 Cat. 1 Class B, 5 g / 30 ms acc. To IEC 60068-27 Test Ea
Vibration resistance acc. to IEC/EN 60068-2-6		IEC 60068-2-6 Test Fc; 2 - 13.2 Hz/1 mm 13.2 - 100 Hz/0.7 g with load 100 % x I_e	IEC 60068-2-6 Test Fc; 2 - 13.2 Hz/1 mm 13.2 - 100 Hz/0.7 g with load 100 % x I_e
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30	°C/RH	12 + 12 cycle with 55 °C/90 - 96 % and 25 °C/95 - 100 %	12 + 12 cycle with 55 °C/90 - 96 % and 25 °C/95 - 100 %
Environmental conditions (dry heat) acc. to IEC/EN 60068-2-2 Test B	°C/RH	16 hours 55 °C/2 hours 70 °C with damp heat 55 %	16 hours 55 °C/2 hours 70 °C with damp heat 55 %
Ambient temperature	°C	-25 ... +60	-25 ... +60
Storage temperature	°C	-40 ... +70	-40 ... +70
Installation			
Terminal		Failsafe cage or ringlug terminal	Failsafe cage or ringlug terminal
Connections (top/bottom) - C_u only	mm^2	1 ... 50 stranded 1 ... 70 flexible	1 ... 50 stranded 1 ... 70 flexible
Tightening torque	Nm	3.5	3.5
	in-lbs.	31	31
Screwdriver		POZI 2	POZI 2
Mounting		any	any
Mounting position		any	any
Supply		any (taking into account the polarization)	any (taking into account the polarization)
Dimensions and weight			
Pole dimensions (H x L x W)	mm	95 x 26.5 x 82.5	95 x 26.5 x 82.5
Pole weight	g	240	240

*The pollution degree of the product, as defined in standard IEC 60947-1, is related to its micro environment, to which equipment is exposed. It may be different from that of the macro-environment. According to where the equipment is located, the pollution degree of the macro environment can be considered up to category IV, if protection is offered by means of such as an adequate enclosure or internal heating to prevent absorption or condensation of moisture.

Command and signaling

S800PV series 1500 switch disconnector





S800PV-SD

Function: switch disconnector for DC side isolation of PV systems.
Designed for PV installations of 1500 V DC.
Applications: Photovoltaic systems
Rated short-term withstand current, I_{cw} 1.5 kA

I_{cw}	Rated current	Bbn 7612271	Order details		Price 1 piece	Weight 1 piece	Pack unit
kA	In A	EAN	Type code	Order code		kg	pc.
1.5	32	271958	S802PV-SD32	2CCF019635R0001		0.43	1
1.5	63	271934	S802PV-SD63	2CCF019634R0001		0.43	1
1.5	125	271972	S802PV-SD125	2CCF019636R0001		0.43	1





I_{cw}	Rated current	Bbn 7612271	Order details		Price 1 piece	Weight 1 piece	Pack unit
kA	In A	EAN	Type code	Order code		kg	pc.
1.5	32	271996	S803PV-SD32	2CCF019637R0001		0.65	1
1.5	63	272016	S803PV-SD63	2CCF019638R0001		0.65	1
1.5	125	272030	S803PV-SD125	2CCF019639R0001		0.65	1



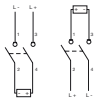


I_{cw}	Rated current	Bbn 7612271	Order details		Price 1 piece	Weight 1 piece	Pack unit
kA	In A	EAN	Type code	Order code		kg	pc.
1.5	32	272054	S804PV-SD32	2CCF019640R0001		0.86	1
1.5	63	272078	S804PV-SD63	2CCF019641R0001		0.86	1
1.5	125	272092	S804PV-SD125	2CCF019642R0001		0.86	1

Command and signaling

S800PV series 1500 switch disconnector





S800PV-M-H

Function: this polarized disconnector is designed to meet the requirements for photovoltaic systems. Only 54 mm wide, voltage up to 1000 V d.c. and a rated current up to 100 A.

Number of poles	Rated current In A	GTIN EAN 7612271	Order details		Weight 1 piece kg	Pack. unit
			Type Code	Order code		
2	32	419035	S802PV-M32-H	2CCP247204R0001	0.43	1
	63	419042	S802PV-M63-H	2CCP247205R0001	0.43	1
	100	419301	S802PV-M100-H	2CCP247212R0001	0.43	1

Command and signaling

E 210 switches



E 210

On-off switches

General		
Overall depth	68 mm	
Width	0.5 or 1 module (9 or 18 mm)	
Colour	grey, RAL 7035	
Climatic resistance to	IEC 60068-2-2 (dry heat)	
	IEC 60068-2-30 (humid heat)	
	IEC 60068-2-1 (low temperatures)	
Ambient temperature	- 25°C to + 55°C	
Storage temperature	- 40°C to + 70°C	
Connection cross-section (Cu)	from 1 x 1 mm2 to 1 x 6 mm2 or 2 x 2.5 mm2 solid;	
	from 1x 0.75 mm2 to 2 x 1.5 mm2 flexible	
	with end ferrule or pin cable lug	
Tightening torque	1.2-1.5 Nm	
Contacts	Double interrupting	
On-off switches (E211; E211X)		
Short-circuit withstand capacity Inc	3 kA; at 400 V cos j = 0.8 (with fusing ≤ 35 A / NH00)	
Rated current In	16 A, 25 A, 32 A	
Rated voltage Un		
in accordance with EN	250 VAC, 400 VAC	
in accordance UL 508	240 VAC	
Rated impulse withstand voltage Uimp	6 kV	
Lowest operating voltage	24 VAC; 25 mA	
Isolating features	to EN60669-2-4; IEC/EN 60947-3	
Utilization category	AC-22 A, DC-22 A acc. IEC/EN 60947-3	
LED voltage ranges	On-off switches E211X 115-250 VAC (Tolerance +/- 10%)	
Frequency	50/60 Hz	
Sealable	in the On and Off positions	
Standards	DIN EN 60669-1 *VDE 0632-1	
	DIN EN 60669-2-4 *VDE 0632-2-4	
	UL 508	
Approvals	VDE; UL; EAC; CCC	

Utilization category for E211 On-off switches (according to standard IEC 60947-3)

Type	In	Utilization category		
		DC-22 A		AC-22 A
E211-16-...	16 A	50 VDC / 16 A	200 VDC / 1 A	400 VAC / 16 A
E211-25-...	25 A	50 VDC / 25 A	200 VDC / 2 A	400 VDC / 25 A
E211-32-...-	32 A	50 VDC / 32 A	200 VDC / 3 A	400 VDC / 32 A

Command and signaling
E 210 switches

Change over, Group and control switches, pushbuttons and indicator lights

Change over, Group and Control switches (E213; E214; E218)	
Rated current In	16 A, 25 A
Rated voltage Un	
in accordance with EN	250 VAC
in accordance UL 508	240 VAC
Lowest operating voltage	24 VAC; 25 mA
Frequency	50/60 Hz
Switches sealable	in the On and Off positions
Standards	DIN EN 60669-1 *VDE 0632-1
	UL 508
Approvals	VDE; UL; EAC; CCC
Pushbuttons without and with LED (E215; E217)	
Rated current In	16 A
Rated voltage Un	
in accordance with EN	250 VAC
in accordance UL 508	240 VAC
Lowest operating voltage	24 VAC; 25 mA
LED voltage ranges	12-48 VAC / DC; 115-250 VAC; 60-220 VDC (Tolerance +/- 10%)
Frequency	50/60 Hz
Standards	DIN EN 60669-1 *VDE 0632-1
	UL 508
Approvals	VDE; UL; EAC; CCC
Indicator lights (E219)	
LED voltage ranges	12-48 VAC / DC; 115-250 VAC; 60-220 VDC (Tolerance +/- 10%)
LED life time	50.000 hours
Frequency	50/60 Hz
Insulation voltage	250 V
Rated impulse withstand voltage Uimp	4 kV
Dissipated power	0.47-1 W
Standards	DIN EN 62094-1
	UL 508
Approvals	VDE; UL; EAC; *1
Indicator lights with 2 LEDs	
LED voltage ranges	115-250 VAC; 12-48 VAC (tolerance +/- 10%)
Frequency	50/60 Hz
Insulation voltage	250 V
Rated impulse withstand voltage Uimp	4 kV
Dissipated power	0.8 W
Standards	DIN EN 62094-1
Approvals	VDE; EAC; *1
Indicator lights with 3 LEDs	
LED voltage ranges	415/250 VAC (tolerance +/- 10%)
Frequency	50/60 Hz
Insulation voltage	250 V
Rated impulse withstand voltage Uimp	4 kV
Dissipated power	1.2 W
Standards	DIN EN 62094-1
Approvals	VDE; EAC; *1

*1 = CCC approval not required

Command and signaling

E 210 switches



E 211-16-10



E211-16-20

These devices are specifically made for commanding loads and signaling electrical conditions in any low-voltage switchboard. They are available in half module or 1 module, depending on the contact-layout. The devices with indicator lights are equipped with a LED, which grants an optimal illumination with very low consumption.

The functions of these devices are particularly switching, pushing and signaling electrical conditions in any installations (low-voltage area)

General features

- Space-saving through 9 mm modules
- All terminals equipped with Pozidrive 1 screws
- Safe connection due to cage-clamp
- LED with bright colours and available in three different voltage ranges
- Different lens and button colours
- Compliance to international standards

E 211-... ON-OFF switches

For example, such devices are used to switch indicators or other electrical components (like fan's, air-conditions, e.g.). The On-Off switches distinguish themselves through simple handling, easy mounting and optimal functionality.

Rated current = 16 A

Contacts	Rated voltage	Power loss	Width	Bbn 7612270	Order details		Price 1 piece	Weight 1 piece	Pack unit
	V AC	W	mm	EAN	Type code	Order code		kg	pc.
1 NO	250	0.32	9	938575	E211-16-10	2CCA703000R0001		0.035	10
2 NO	250/400	0.82	9	938582	E211-16-20	2CCA703005R0001		0.045	10
3 NO	250/400	1.14	18	938599	E211-16-30	2CCA703010R0001		0.080	10
4 NO	250/400	1.64	18	938605	E211-16-40	2CCA703015R0001		0.090	10

Rated current = 25 A

Contacts	Rated voltage	Power loss	Width	Bbn 7612270	Order details		Price 1 piece	Weight 1 piece	Pack unit
	V AC	W	mm	EAN	Type code	Order code		kg	pc.
1 NO	250	0.75	9	938612	E211-25-10	2CCA703001R0001		0.035	10
2 NO	250/400	1.95	9	938629	E211-25-20	2CCA703006R0001		0.045	10
3 NO	250/400	2.70	18	938636	E211-25-30	2CCA703011R0001		0.080	10
4 NO	250/400	3.90	18	938643	E211-25-40	2CCA703016R0001		0.090	10

Rated current = 32 A

Contacts	Rated voltage	Power loss	Width	Bbn 7612270	Order details		Price 1 piece	Weight 1 piece	Pack unit
	V AC	W	mm	EAN	Type code	Order code		kg	pc.
1 NO	250	1.12	9	938650	E211-32-10	2CCA703002R0001		0.035	10
2 NO	250/400	2.73	9	938667	E211-32-20	2CCA703007R0001		0.045	10
3 NO	250/400	3.85	18	938674	E211-32-30	2CCA703012R0001		0.080	10
4 NO	250/400	5.46	18	938681	E211-32-40	2CCA703017R0001		0.090	10

Command and signaling

E 210 switches



E211X-16-10

E 211X-... On-Off switches with yellow LED for contact indication

LED voltage 115-250 V AC

Rated current = 16 A

Contacts	Rated voltage	Power loss	LED colour	Width	Bbn 7612270	Order details		Price 1 piece	Weight 1 piece	Pack unit
	V AC	W		mm	EAN	Type code	Order code		kg	pc.
1 NO	250	0.50	yellow	9	938872	E211X-16-10	2CCA703100R0001		0.040	10
2 NO	250/400	1.00	yellow	18	938889	E211X-16-20	2CCA703110R0001		0.050	10
3 NO	250/400	1.50	yellow	18	938896	E211X-16-30	2CCA703115R0001		0.060	10



E211X-16-20

Rated current = 25 A

Contacts	Rated voltage	Power loss	LED colour	Width	Bbn 7612270	Order details		Price 1 piece	Weight 1 piece	Pack unit
	V AC	W		mm	EAN	Type code	Order code		kg	pc.
1 NO	250	1.15	yellow	9	938902	E211X-25-10	2CCA703101R0001		0.040	10
2 NO	250/400	2.30	yellow	18	938919	E211X-25-20	2CCA703111R0001		0.050	10
3 NO	250/400	3.45	yellow	18	938926	E211X-25-30	2CCA703116R0001		0.060	10

E 213-... Change over switches

The change-over switches distinguish themselves through simple handling, easy mounting and optimal functionality. Example applications include opening and closing of electrically operated flaps.



E213-16-001

Rated current = 16 A

Contacts	Rated voltage	Power loss	LED colour	Width	Bbn 7612270	Order details		Price 1 piece	Weight 1 piece	Pack unit
	V AC	W		mm	EAN	Type code	Order code		kg	pc.
1 CO	250	0.32	-	9	938698	E213-16-001	2CCA703040R0001		0.041	10
2 CO	250	0.82	-	18	938704	E213-16-002	2CCA703045R0001		0.082	10

Rated current = 25 A

Contacts	Rated voltage	Power loss	LED colour	Width	Bbn 7612270	Order details		Price 1 piece	Weight 1 piece	Pack unit
	V AC	W		mm	EAN	Type code	Order code		kg	pc.
1 CO	250	0.40	-	9	938711	E213-25-001	2CCA703041R0001		0.041	10
2 CO	250	0.88	-	18	938728	E213-25-002	2CCA703046R0001		0.082	10



E 213-16-002

Command and signaling

E 210 switches



E214-16-101



E214-16-202



E 218-16-11



E 218-16-22

E 214-... Group switches (I-0-II, manual-OFF-automatic)
The Group switches can be used to control the main installation of an emergency supply. Such devices distinguish themselves through simple handling, easy mounting and optimal functionality.

Rated current = 16 A									
Contacts	Rated voltage	Power loss	Width	Bbn 7612270	Order details		Price 1 piece	Weight 1 piece	Pack unit
	V AC	W	mm	EAN	Type code	Order code		kg	pc.
1 CO	250	0.32	9	938735	E214-16-101	2CCA703025R0001		0.041	10
2 CO	250	0.82	18	938742	E214-16-202	2CCA703030R0001		0.082	10

Rated current = 25 A									
Contacts	Rated voltage	Power loss	Width	Bbn 7612270	Order details		Price 1 piece	Weight 1 piece	Pack unit
	V AC	W	mm	EAN	Type code	Order code		kg	pc.
1 CO	250	0.40	9	938759	E214-25-101	2CCA703026R0001		0.041	10
2 CO	250	0.88	18	938766	E214-25-202	2CCA703031R0001		0.082	10

E 218-... Control switches
These devices can be used in distribution board for any control function. The control switches distinguish themselves through simple handling, easy mounting and optimal functionality.

Rated current = 16 A									
Contacts	Rated voltage	Power loss	Width	Bbn 7612270	Order details		Price 1 piece	Weight 1 piece	Pack unit
	V AC	W	mm	EAN	Type code	Order code		kg	pc.
1NO+1NC	250	0.50	9	938773	E218-16-11	2CCA703050R0001		0.041	10
2NO+2NC	250	1.00	18	938780	E218-16-22	2CCA703060R0001		0.082	10
3NO+1NC	250	1.50	18	938797	E218-16-31	2CCA703065R0001		0.082	10

Rated current = 25 A									
Contacts	Rated voltage	Power loss	Width	Bbn 7612270	Order details		Price 1 piece	Weight 1 piece	Pack unit
	V AC	W	mm	EAN	Type code	Order code		kg	pc.
1NO+1NC	250	0.75	9	938803	E218-25-11	2CCA703051R0001		0.041	10

Command and signaling

E 210 pushbuttons



E 215



E 217

E 215-... Pushbuttons (6 different button colours)
Pushbuttons without and with LED
These products are available in 9 mm widths (= 0.5 modules).
The devices can be used in distribution boards and are all distinguished by their simple handling, ease of mounting and optimal functionality. The pushbuttons are used for remote control in all kinds of electrical installation (e.g. public, industrial). The range offers three different voltages. (Ranges: 12-48 V AC/DC; 115-250 V AC and 60-220 V DC).

Rated current = 16 A										
Contacts	Rated voltage	Power loss	Button colour	Width	Bbn 7612270	Order details		Price 1 piece	Weight 1 piece	Pack unit
	V AC	W		mm	EAN	Type code	Order code		kg	pc.
1NO+1NC	250	0.50	grey	9	938810	E215-16-11B	2CCA703150R0001		0.046	10
1NO+1NC	250	0.50	red	9	938827	E215-16-11C	2CCA703151R0001		0.046	10
1NO+1NC	250	0.50	green	9	938834	E215-16-11D	2CCA703152R0001		0.046	10
1NO+1NC	250	0.50	yellow	9	938841	E215-16-11E	2CCA703153R0001		0.046	10
1NO+1NC	250	0.50	black	9	938858	E215-16-11F	2CCA703154R0001		0.046	10
1NO+1NC	250	0.50	blue	9	938865	E215-16-11G	2CCA703155R0001		0.046	10

E 217-... Luminous Pushbuttons (5 different LED colours)

LED Voltage range = 115-250 V AC										
Contacts	Rated voltage	Power loss	LED colour	Width	Bbn 7612270	Order details		Price 1 piece	Weight 1 piece	Pack unit
	V AC	W		mm	EAN	Type code	Order code		kg	pc.
1 NO	250	1.10	white	9	938988	E217-16-10B	2CCA703160R0001		0.050	10
1 NO	250	1.10	red	9	938995	E217-16-10C	2CCA703161R0001		0.050	10
1 NO	250	1.10	green	9	939008	E217-16-10D	2CCA703162R0001		0.050	10
1 NO	250	1.10	yellow	9	939015	E217-16-10E	2CCA703163R0001		0.050	10
1 NO	250	1.10	blue	9	939022	E217-16-10G	2CCA703164R0001		0.050	10
1 NC	250	1.10	white	9	939084	E217-16-01B	2CCA703250R0001		0.050	10
1 NC	250	1.10	red	9	939091	E217-16-01C	2CCA703251R0001		0.050	10
1 NC	250	1.10	green	9	939107	E217-16-01D	2CCA703252R0001		0.050	10
1 NC	250	1.10	yellow	9	939114	E217-16-01E	2CCA703253R0001		0.050	10
1 NC	250	1.10	blue	9	939121	E217-16-01G	2CCA703254R0001		0.050	10

Command and signaling

E 210 pushbuttons



E 217

E 217-... Luminous Pushbuttons (5 different LED colours)

LED Voltage range = 12-48 V AC/DC										
Contacts	Rated voltage	Power loss	LED colour	Width	Bbn 7612270	Order details		Price 1 piece	Weight 1 piece	Pack unit
	V AC	W		mm	EAN	Type code	Order code		kg	pc.
1 NO	250	0.72	white	9	938933	E217-16-10B48	2CCA703170R0001		0.050	10
1 NO	250	0.72	red	9	938940	E217-16-10C48	2CCA703171R0001		0.050	10
1 NO	250	0.72	green	9	938957	E217-16-10D48	2CCA703172R0001		0.050	10
1 NO	250	0.72	yellow	9	938964	E217-16-10E48	2CCA703173R0001		0.050	10
1 NO	250	0.72	blue	9	938971	E217-16-10G48	2CCA703174R0001		0.050	10
1 NC	250	0.72	white	9	939039	E217-16-01B48	2CCA703260R0001		0.050	10
1 NC	250	0.72	red	9	939046	E217-16-01C48	2CCA703261R0001		0.050	10
1 NC	250	0.72	green	9	939053	E217-16-01D48	2CCA703262R0001		0.050	10
1 NC	250	0.72	yellow	9	939060	E217-16-01E48	2CCA703263R0001		0.050	10
1 NC	250	0.72	blue	9	939077	E217-16-01G48	2CCA703264R0001		0.050	10

LED Voltage range = 60-220 V DC										
Contacts	Rated voltage	Power loss	LED colour	Width	Bbn 7612270	Order details		Price 1 piece	Weight 1 piece	Pack unit
	V AC	W		mm	EAN	Type code	Order code		kg	pc.
1 NO	250	1.50	white	9	939138	E217-16-10B220	2CCA703165R0001		0.050	10
1 NO	250	1.50	red	9	939145	E217-16-10C220	2CCA703166R0001		0.050	10
1 NO	250	1.50	green	9	939152	E217-16-10D220	2CCA703167R0001		0.050	10
1 NO	250	1.50	yellow	9	939169	E217-16-10E220	2CCA703168R0001		0.050	10
1 NO	250	1.50	blue	9	939176	E217-16-10G220	2CCA703169R0001		0.050	10
1 NC	250	1.50	white	9	939183	E217-16-01B220	2CCA703255R0001		0.050	10
1 NC	250	1.50	red	9	939190	E217-16-01C220	2CCA703256R0001		0.050	10
1 NC	250	1.50	green	9	939206	E217-16-01D220	2CCA703257R0001		0.050	10
1 NC	250	1.50	yellow	9	939213	E217-16-01E220	2CCA703258R0001		0.050	10
1 NC	250	1.50	blue	9	939220	E217-16-01G220	2CCA703259R0001		0.050	10

Command and signaling

E 210 indicator lights



E 219

E 219-... Indicator Lights with LED (5 different colours)
The indicator lights warrant a clear overview of the operating states of electrical equipment from one central location. The long useful life of LED technology promises maintenance-free operation for up to 50.000 hours.
For comparison: the incandescent bulbs previously used had a maximum operating operating time of 10.000 hours.
These products are available in 9 mm width (= 0.5 modules) and can be used for indicating any operational condition such as signaling loss of a phase.
The range offers three different voltages.
(Ranges: 12-48 V AC/DC; 115-250 V AC and 110-220 V DC).

Single indicator light - LED Voltage range = 115-250 V AC

Power loss	LED colour	Width	Bbn 7612270	Order details		Price 1 piece	Weight 1 piece	Pack unit
W		mm	EAN	Type code	Order code		kg	pc.
0.47	white	9	939282	E219-B	2CCA703400R0001		0.04	10
0.47	red	9	939299	E219-C	2CCA703401R0001		0.04	10
0.47	green	9	939305	E219-D	2CCA703402R0001		0.04	10
0.47	yellow	9	939312	E219-E	2CCA703403R0001		0.04	10
0.47	blue	9	939329	E219-G	2CCA703404R0001		0.04	10

Single indicator light - LED Voltage range = 12-48 V AC/DC

Power loss	LED colour	Width	Bbn 7612270	Order details		Price 1 piece	Weight 1 piece	Pack unit
W		mm	EAN	Type code	Order code		kg	pc.
0.40	white	9	939237	E219-B48	2CCA703420R0001		0.04	10
0.40	red	9	939244	E219-C48	2CCA703421R0001		0.04	10
0.40	green	9	939251	E219-D48	2CCA703422R0001		0.04	10
0.40	yellow	9	939268	E219-E48	2CCA703423R0001		0.04	10
0.40	blue	9	939275	E219-G48	2CCA703424R0001		0.04	10

Single indicator light - LED Voltage range = 60-220 V DC

Power loss	LED colour	Width	Bbn 7612270	Order details		Price 1 piece	Weight 1 piece	Pack unit
W		mm	EAN	Type code	Order code		kg	pc.
1.00	white	9	939336	E219-B220	2CCA703405R0001		0.04	10
1.00	red	9	939343	E219-C220	2CCA703406R0001		0.04	10
1.00	green	9	939350	E219-D220	2CCA703407R0001		0.04	10
1.00	yellow	9	939367	E219-E220	2CCA703408R0001		0.04	10
1.00	blue	9	939374	E219-G220	2CCA703409R0001		0.04	10

Command and signaling

E 210 indicator lights



E 219-2CD



E 219-3CDE

Double indicator light - LED Voltage range = 12-24 V AC

Power loss	LED colour	Width	Bbn 7612271	Order details		Price 1 piece	Weight 1 piece	Pack unit
W		mm	EAN	Type code	Order code		kg	pc.
0.8	green, red	9	413347	E219-2CD48	2CCA703911R0001		0.042	10

Double indicator light - LED Voltage range = 115-230 V AC

Power loss	LED colour	Width	Bbn 7612271	Order details		Price 1 piece	Weight 1 piece	Pack unit
W		mm	EAN	Type code	Order code		kg	pc.
0.8	green, red	9	413330	E219-2CD	2CCA703910R0001		0.042	10

Triple indicator light - LED Voltage range = 415-230 V AC

Power loss	LED colour	Width	Bbn 7612271	Order details		Price 1 piece	Weight 1 piece	Pack unit
W		mm	EAN	Type code	Order code		kg	pc.
1.2	red, red, red	9	413309	E219-3C	2CCA703900R0001		0.044	10
1.2	green, green, green	9	413316	E219-3D	2CCA703901R0001		0.044	10
1.2	red, yellow, green	9	413323	E219-3CDE	2CCA703902R0001		0.044	10

Command and signaling

E 210 accessories



E 210-DH



E 210-ASV9

Accessories for E 210 device series

Dummy housing for 9 mm wide units
The modular witht of 18 mm must be complied with to use the devices in the SMISSLINE socket system. The dummy housing is ready-made with two expanding connectors. Always snap on dummy housing on the left.

	Bbn 7612270	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	404208	E210-DH	2CCA703480R0001		0.18	10

Padlock

	Bbn 7612270	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
to use for 9 and 18 mm wide units	404215	E210-ASV9	2CCA703648R0001		0.01	10

Command and signaling

Installation contactors



ABB's hum-free installation contactor designs now offer a wider range of ratings from 16 A to 100 A. Widely used in buildings for switching and controlling lighting, heating, ventilation, EV charging stations, motor and pumps, the installation contactors take noise reduction to a new level. With an innovative AC / DC coil design that eliminates hum, a broad selection of common accessories as well as manual and automatic versions, installation contactors offer peace of mind in noise-sensitive applications.

Optimum interface

Quiet and reliable in every application
ABB's hum-free contactors feature innovative AC / DC coils. The range covers ratings from 16 A to 100 A and offers accessories to suit customer requirements in every application. An integrated indicator makes diagnostics quicker and provides reliable information about the contactor's status at a glance.

Easy to install

Simple solution that saves time
Reduce installation time and stock levels, with a universal auxiliary contact block that can be attached to the contactors by hand. Installation contactors fit easily with ABB's System Pro M compact range, making them fully compatible with other modular DIN-rail components.

Global availability

Whatever you need, wherever you need it
Installation contactors are available in single and multi-packs to meet different customer needs and to optimize warehousing space. Every ABB product enjoys expert local support worldwide to make communication easier and delivery faster.

Command and signaling

Installation contactors

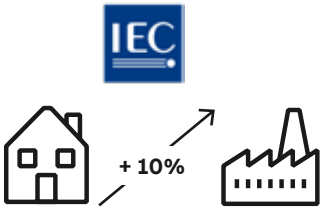
Features and benefits



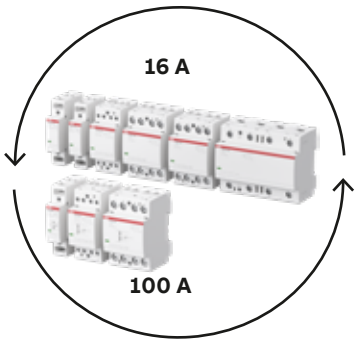
Hum-free operation
With an innovative AC / DC design that eliminates hum, the range meets the needs of applications demanding silent operation, for example hotel rooms and residential buildings.



Single and multiple packaging
The right packaging for your needs- our products are available in a choice of different packaging and delivery quantities. This allows you to warehouse according to your needs and save up to 50% on your inventory.



Wide application range
The ESB installation contactors range meets both the industrial standard IEC 60947-4-1 and the household standard IEC 61095 as well as pollution degree class 3. Due to multiple certification and inherent robustness, the contactors can be used in 10% more applications in both residential and industrial settings.

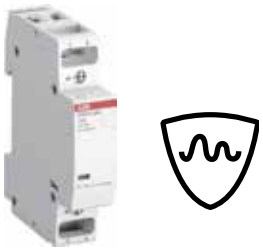


Comprehensive solution
ABB's ESB and EN installation contactors range offers a complete solution from 16 A to 100 A, offering an answer to all customer needs from a single supplier.
With 16 A, 25 A and 100 A versions, tender specifications can be met with competitive pricing.

Command and signaling
Installation contactors
Features and benefits



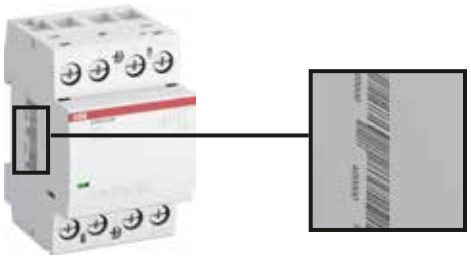
Save up to 15% space with group mounting
ESB16..N, ESB/EN20..N and ESB100..N can be group mounted. There is no need for a distance piece in between contactors, saving both valuable space in cabinets and money.



Built-in protective circuit
Protect the contactor without additional space-demanding components against remote lightning strikes and overvoltages.



Design in accordance with System Pro M
Contactors and accessories are designed according to System pro M range and ABB´s modular DIN-rail components and fit in dedicated panels.



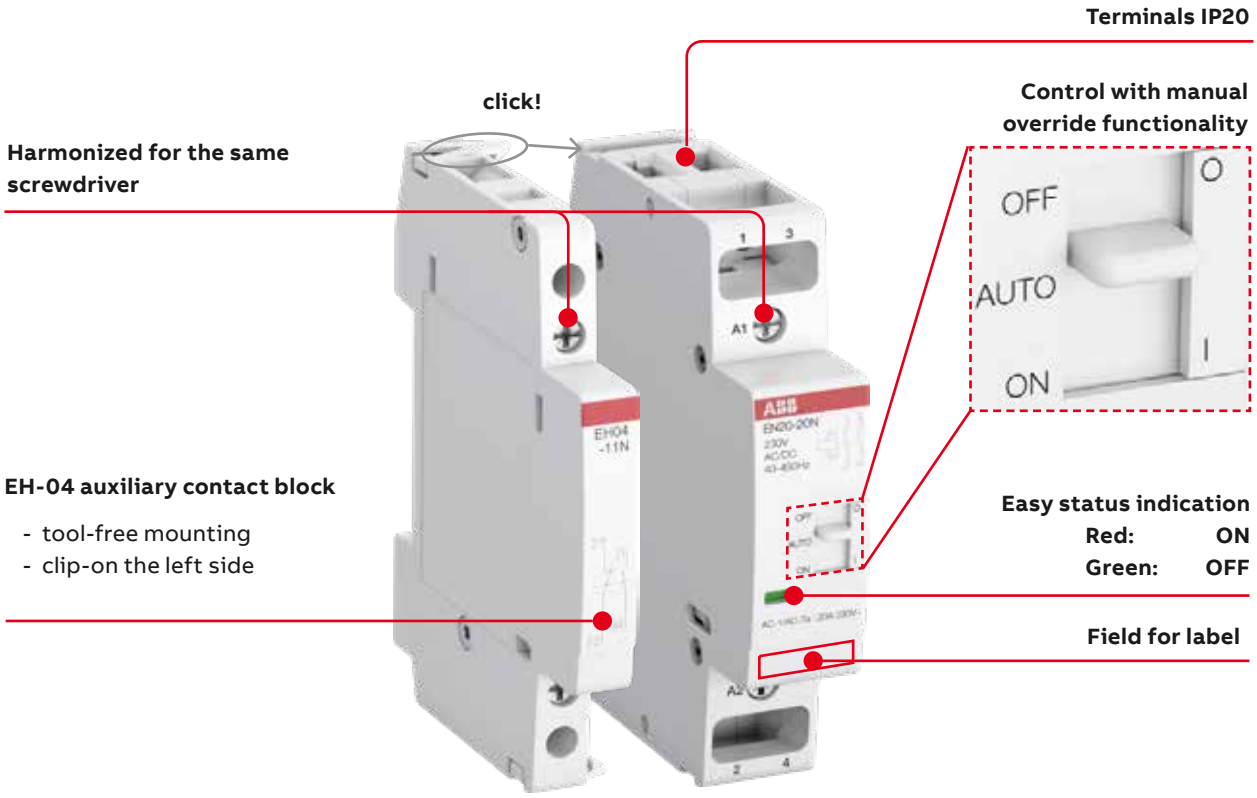
EAN-code for an easy identification
Just scan the EAN-code printed on the side of the devices and save up to 80% time identifying the product in your system. This way, handling and identifying your products in warehouse and cashier system is easy.

Command and signaling

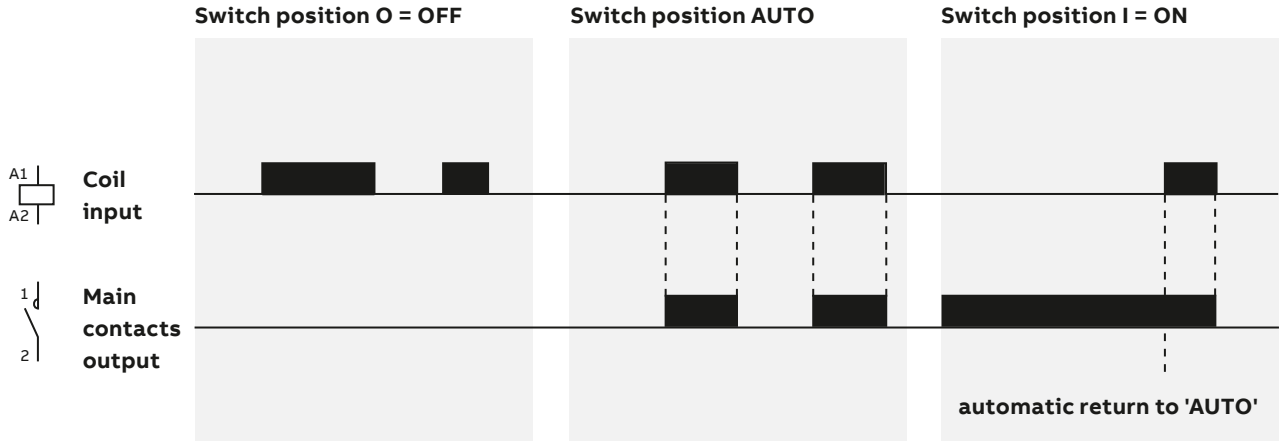
Installation contactors

Easy installation and maintenance

ABB´s installation contactors come with many features that make installation and maintenance easier. The mechanical Indicator with green and red color for status indication ensures a quick diagnostic of the system. Also, some specialty types feature a manual override functionality with a toggle switch to control independently from control source. Accessories can be mounted tool-free on the contactor, for example auxiliaries, space holders as well as security and safety covers.



Operation mode EN-versions



Command and signaling

Installation contactors

Overview contactors







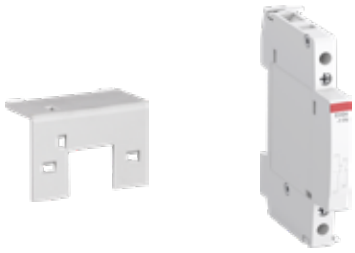

Type		ESB16..N	ESB20..N EN20..N	ESB25..N EN25..N	ESB40..N EN40..N	ESB63..N	ESB100..N
AC-1/AC-7a (A)		16	20	25	40	63	100
Modular Width		1	1	2	3	3	3/6
Accessories							
Auxiliary contact blocks	2 NO	EH04-20N	EH04-20N	EH04-20N	EH04-20N	EH04-20N	EH04-20N
	1 NO + 1 NC	EH04-11N	EH04-11N	EH04-11N	EH04-11N	EH04-11N	EH04-11N
Distance piece	up to 40 °C	-	-	-	-	-	-
	between 40 °C and 55 °C	-	-	ESB-DIS*	ESB-DIS*	ESB-DIS*	-
Covers  		-	-	ESB-PLK24	ESB-PLK40/63	ESB-PLK40/63	-

*If several contactors are mounted adjacently and the duty time is longer than one hour, every second contactor needs a distance piece, Type ESB-DIS (1/2 module).
This is not necessary at an ambient temperature ≤ 40 °C .

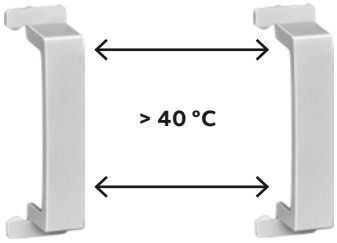
Command and signaling

Installation contactors

Overview accessories



Tool-free accessories
Speed up installation and maintenance time by mounting accessories tool-free to the contactor. Auxiliaries, security safety covers and space holders are easily and quickly installed.



Distance pieces
If the ambient temperature in your control cabinet exceeds 40 °C and the duty time is longer than an hour, you need to use a distance piece between each second contactor for the ESB25..N to ESB63..N.



Sealing covers
Protect the security of your employees/ customers´ installation with sealing covers. They are available in different sizes and can be clipped on easily.



Auxiliary contact blocks
ABB´s new range of auxiliary contact blocks are mounted on the left side of the contactors. Simply clip them on - no tools required!
Valuable inventory space can be saved with the new auxiliary contact block which is designed to fit all contactors of the range.

Command and signaling

Installation contactors

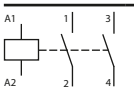
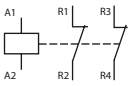
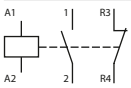
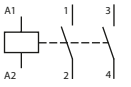
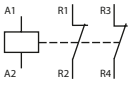
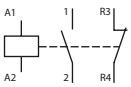
Ordering details ESB16..N - 16 A, AC-1 /AC-7a, AC/DC operated



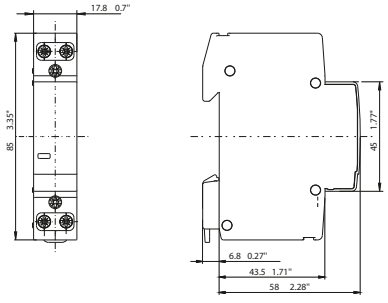
ESB16..N

The ESB16..N installation contactors are used to control single-phase loads up to 16 A and can be operated by AC or DC voltages. These contactors are made for use in household applications as well as in industrial environment.
ESB16..N series is providing the following benefits:

- Hum-free operation, low power consumption and integrated overvoltage protection.
- Various contact combinations and accessories are available.

Main contacts	Width[1]	Rated control circuit voltage[2]	Bbn 3471523	Order details		Price 1 piece	Weight 1 piece	Pack unit
		V AC/DC	EAN	Type code	Order code		kg	pc.
Single packaging								
	1	24	004337	ESB16-20N-01	1SBE111111R0120		0.14	1
		230	004481	ESB16-20N-06	1SBE111111R0620		0.14	1
	1	24	004313	ESB16-02N-01	1SBE111111R0102		0.14	1
		230	004467	ESB16-02N-06	1SBE111111R0602		0.14	1
	1	24	004320	ESB16-11N-01	1SBE111111R0111		0.14	1
		230	004474	ESB16-11N-06	1SBE111111R0611		0.14	1
Multiple packaging								
	1	24	004726	ESB16-20N-01	1SBE111111M0120		0.14	12
		230	004870	ESB16-20N-06	1SBE111111M0620		0.14	12
	1	24	004702	ESB16-02N-01	1SBE111111M0102		0.14	12
		230	004856	ESB16-02N-06	1SBE111111M0602		0.14	12
	1	24	004719	ESB16-11N-01	1SBE111111M0111		0.14	12
		230	004863	ESB16-11N-06	1SBE111111M0611		0.14	12

(1) In number of modular spacings.
(2) Other control voltages: see voltage code table and contact ABB for availability of products.



ESB16..N

Dimensions mm, inches

Command and signaling

Installation contactors

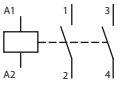
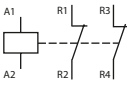
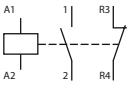
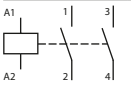
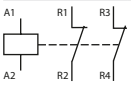
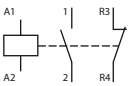
Ordering details ESB20..N - 20 A, AC-1 /AC-7a, AC/DC operated



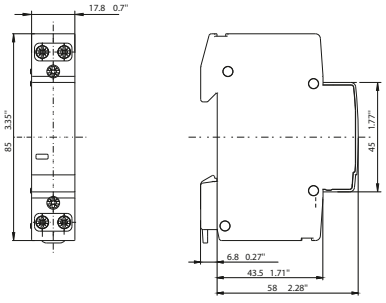
ESB20..N

The ESB20..N installation contactors are used to control single-phase loads up to 20 A and can be operated by AC or DC voltages. These contactors are made for use in household applications as well as in industrial environment.
ESB20..N series is providing the following benefits:

- Hum-free operation, low power consumption and integrated overvoltage protection.
- Various contact combinations and accessories are available.

Main contacts	Width[1]	Rated control circuit voltage[2]	Bbn 3471523	Order details		Price 1 piece	Weight 1 piece	Pack unit
		V AC/DC	EAN	Type code	Order code		kg	pc.
Single packaging								
	1	24	004566	ESB20-20N-01	1SBE121111R0120		0.14	1
		230	004641	ESB20-20N-06	1SBE121111R0620		0.14	1
	1	24	004559	ESB20-02N-01	1SBE121111R0102		0.14	1
		230	005372	ESB20-02N-06	1SBE121111R0602		0.14	1
	1	24	005310	ESB20-11N-01	1SBE121111R0111		0.14	1
		230	005389	ESB20-11N-06	1SBE121111R0611		0.14	1
Multiple packaging								
	1	24	004962	ESB20-20N-01	1SBE121111M0120		0.14	12
		230	005112	ESB20-20N-06	1SBE121111M0620		0.14	12
	1	24	004948	ESB20-02N-01	1SBE121111M0102		0.14	12
		230	005099	ESB20-02N-06	1SBE121111M0602		0.14	12
	1	24	004955	ESB20-11N-01	1SBE121111M0111		0.14	12
		230	005105	ESB20-11N-06	1SBE121111M0611		0.14	12

(1) In number of modular spacings.
(2) Other control voltages: see voltage code table and contact ABB for availability of products.



ESB20..N

Dimensions mm, inches

Command and signaling

Installation contactors

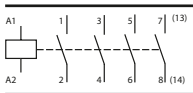
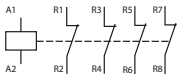
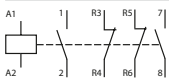
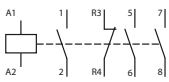
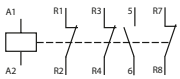
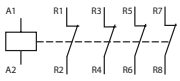
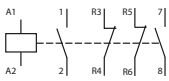
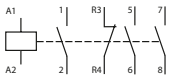
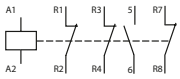
Ordering details ESB25..N - 25 A, AC-1/AC-7a, AC/DC operated



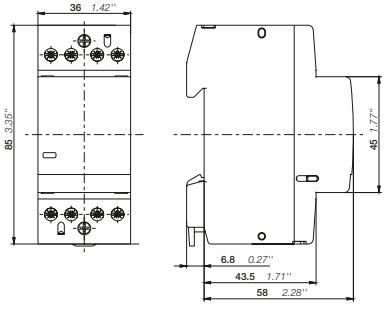
ESB25..N

The ESB25..N installation contactors are used to control single and three-phases loads up to 25 A and can be operated by AC or DC voltages. These contactors are made for use in household applications as well as in industrial environment.
ESB25..N series is providing the following benefits:

- Hum-free operation, low power consumption and integrated overvoltage protection.
- Various contact combinations and accessories are available.

Main contacts	Width[1]	Rated control circuit voltage[2]	Bbn 4013614	Order details		Price 1 piece	Weight 1 piece	Pack unit
		V AC/DC	EAN	Type code	Order code		kg	pc.
Single packaging								
	2	24	523977	ESB25-40N-01	1SAE231111R0140		0.245	1
		230...240	524257	ESB25-40N-06	1SAE231111R0640		0.235	1
	2	24	523915	ESB25-04N-01	1SAE231111R0104		0.245	1
		230...240	524196	ESB25-04N-06	1SAE231111R0604		0.235	1
	2	24	523946	ESB25-22N-01	1SAE231111R0122		0.245	1
		230...240	524226	ESB25-22N-06	1SAE231111R0622		0.235	1
	2	24	523960	ESB25-31N-01	1SAE231111R0131		0.245	1
		230...240	524240	ESB25-31N-06	1SAE231111R0631		0.235	1
	2	24	523922	ESB25-13N-01	1SAE231111R0113		0.245	1
		230...240	524202	ESB25-13N-06	1SAE231111R0613		0.235	1
Multiple packaging								
	2	24	519420	ESB25-40N-01	1SAE231111M0140		0.245	6
		230...240	519703	ESB25-40N-06	1SAE231111M0640		0.235	6
	2	24	519369	ESB25-04N-01	1SAE231111M0104		0.245	6
		230...240	519642	ESB25-04N-06	1SAE231111M0604		0.235	6
	2	24	519390	ESB25-22N-01	1SAE231111M0122		0.245	6
		230...240	519673	ESB25-22N-06	1SAE231111M0622		0.235	6
	2	24	519413	ESB25-31N-01	1SAE231111M0131		0.245	6
		230...240	519697	ESB25-31N-06	1SAE231111M0631		0.235	6
	2	24	519376	ESB25-13N-01	1SAE231111M0113		0.245	6
		230...240	519659	ESB25-13N-06	1SAE231111M0613		0.235	6

(1) In number of modular spacings.
(2) Other control voltages: see voltage code table and contact ABB for availability of products.



ESB25..N

Dimensions mm, inches

Command and signaling

Installation contactors

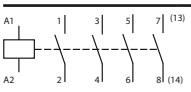
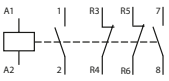
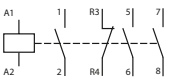
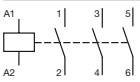
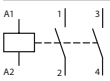
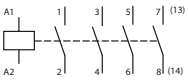
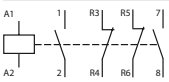
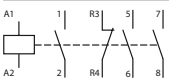
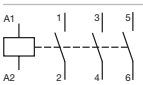
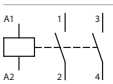
Ordering details ESB40..N - 40 A, AC-1/AC-7a, AC/DC operated



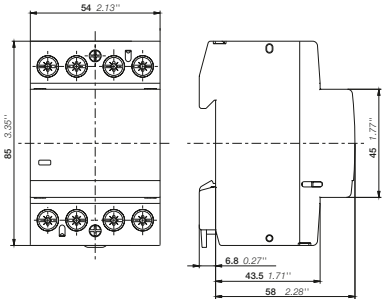
ESB40..N

The ESB40..N installation contactors are used to control single and three-phases loads up to 40 A and can be operated by AC or DC voltages. These contactors are made for use in household applications as well as in industrial environment.
ESB40..N series is providing the following benefits:

- Hum-free operation, low power consumption and integrated overvoltage protection.
- Various contact combinations and accessories are available.

Main contacts	Width(1)	Rated control circuit voltage(2)	Bbn 4013614	Order details		Price 1 piece	Weight 1 piece	Pack unit
		V AC/DC	EAN	Type code	Order code		kg	pc.
Single packaging								
	3	24	524639	ESB40-40N-01	1SAE341111R0140		0.405	1
		230	524820	ESB40-40N-06	1SAE341111R0640		0.405	1
	3	24	524608	ESB40-22N-01	1SAE341111R0122		0.405	1
		230	524790	ESB40-22N-06	1SAE341111R0622		0.405	1
	3	24	524622	ESB40-31N-01	1SAE341111R0131		0.405	1
		230	524813	ESB40-31N-06	1SAE341111R0631		0.405	1
	3	24	524615	ESB40-30N-01	1SAE341111R0130		0.385	1
		230	524806	ESB40-30N-06	1SAE341111R0630		0.385	1
	3	24	524592	ESB40-20N-01	1SAE341111R0120		0.370	1
		230	524783	ESB40-20N-06	1SAE341111R0620		0.370	1
Multiple packaging								
	3	24	520075	ESB40-40N-01	1SAE341111M0140		0.405	4
		230	520266	ESB40-40N-06	1SAE341111M0640		0.405	4
	3	24	520044	ESB40-22N-01	1SAE341111M0122		0.405	4
		230	520235	ESB40-22N-06	1SAE341111M0622		0.405	4
	3	24	520068	ESB40-31N-01	1SAE341111M0131		0.405	4
		230	520259	ESB40-31N-06	1SAE341111M0631		0.405	4
	3	24	520051	ESB40-30N-01	1SAE341111M0130		0.385	4
		230	520242	ESB40-30N-06	1SAE341111M0630		0.385	4
	3	24	520037	ESB40-20N-01	1SAE341111M0120		0.370	4
		230	520228	ESB40-20N-06	1SAE341111M0620		0.370	4

(1) In number of modular spacings.
(2) Other control voltages: see voltage code table and contact ABB for availability of products.



ESB40..N

Dimensions mm, inches

Command and signaling

Installation contactors

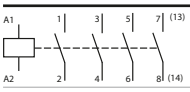
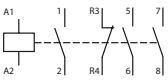
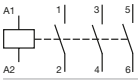
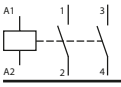
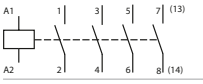
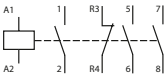
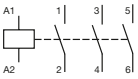
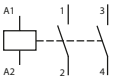
Ordering details ESB63..N - 63 A, AC-1/AC-7a, AC/DC operated



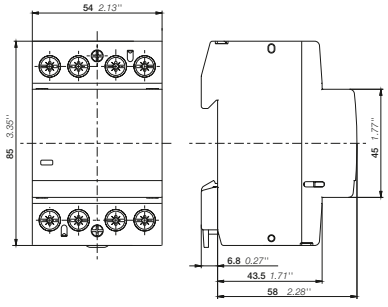
ESB63..N

The ESB63..N installation contactors are used to control single and three-phases loads up to 63 A and can be operated by AC or DC voltages. These contactors are made for use in household applications as well as in industrial environment.
ESB63..N series is providing the following benefits:

- Hum-free operation, low power consumption and integrated overvoltage protection.
- Various contact combinations and accessories are available.

Main contacts	Width[1]	Rated control circuit voltage[2]	Bbn 4013614	Order details		Price 1 piece	Weight 1 piece	Pack unit
		V AC/DC	EAN	Type code	Order code		kg	pc.
Single packaging								
	3	24	525278	ESB63-40N-01	1SAE351111R0140		0.405	1
		230	525544	ESB63-40N-06	1SAE351111R0640		0.405	1
	3	230	525537	ESB63-31N-06	1SAE351111R0631		0.405	1
	3	230	525520	ESB63-30N-06	1SAE351111R0630		0.385	1
	3	24	525247	ESB63-20N-01	1SAE351111R0120		0.37	1
		230	525506	ESB63-20N-06	1SAE351111R0620		0.37	1
Multiple packaging								
	3	24	520716	ESB63-40N-01	1SAE351111M0140		0.405	4
		230	520983	ESB63-40N-06	1SAE351111M0640		0.405	4
	3	230	520976	ESB63-31N-06	1SAE351111M0631		0.405	4
	3	230	520969	ESB63-30N-06	1SAE351111M0630		0.385	4
	3	24	520686	ESB63-20N-01	1SAE351111M0120		0.37	4
		230	520945	ESB63-20N-06	1SAE351111M0620		0.37	4

(1) In number of modular spacings.
(2) Other control voltages: see voltage code table and contact ABB for availability of products.



ESB63..N

Dimensions mm, inches

Command and signaling

Installation contactors

Ordering details ESB100..N - 100 A, AC-1/AC-7a, AC/DC operated



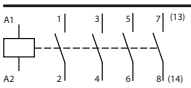
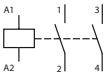
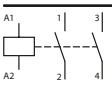
ESB100-20N



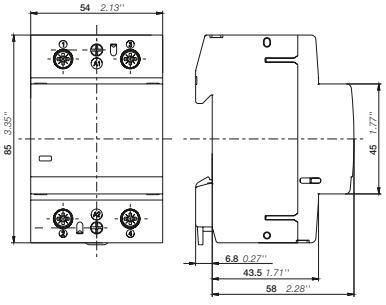
ESB100-40N

The ESB100..N installation contactors are used to control single and three-phases loads up to 100 A and can be operated by AC or DC voltages. These contactors are made for use in household applications as well as in industrial environment.
ESB100..N series is providing the following benefits:

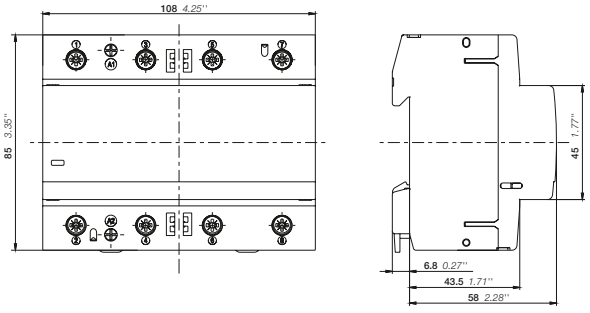
- Hum-free operation, low power consumption and integrated overvoltage protection.
- Various contact combinations and accessories are available.

Main contacts	Width (1)	Rated control circuit voltage	Bbn 4013614	Order details		Price 1 piece	Weight 1 piece	Pack unit
		V AC/DC	EAN	Type code	Order code		kg	pc.
Single packaging								
	6	24	533112	ESB100-40N-01	1SAE661111R0140		0.405	1
		230	533211	ESB100-40N-06	1SAE661111R0640		0.405	1
	3	24	533013	ESB100-20N-01	1SAE361111R0120		0.81	1
		230	533037	ESB100-20N-06	1SAE361111R0620		0.81	1
Multiple packaging								
	3	24	533235	ESB100-20N-01	1SAE361111M0120		1.62	2
		230	533259	ESB100-20N-06	1SAE361111M0620		1.62	2

(1) In number of modular spacings.



ESB100-20N



ESB100-40N

Dimensions mm, inches

Command and signaling

Installation contactors

Ordering details EN20N -20 A, manually/automatic operated

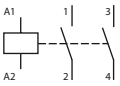
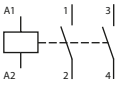


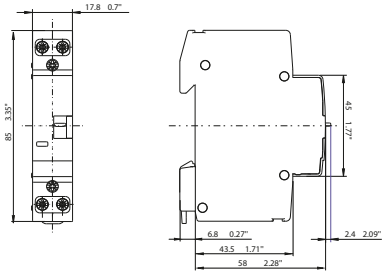
EN20..N

The EN20..N installation contactors are used to control single-phase loads up to 20 A and can be operated by AC or DC voltages. They have a built-in toggle switch to be operated manually or automatically. These contactors are made for use in household applications as well as in industrial environment.

EN20..N series is providing the following benefits:

- Hum-free operation, low power consumption and integrated overvoltage protection and manual override.
- Various contact combinations and accessories are available.

Main contacts	Width[1]	Rated control circuit voltage [1]	Bbn 3471523	Order details		Price 1 piece	Weight 1 piece	Pack unit
		V AC/DC	EAN	Type code	Order code		kg	pc.
Single packaging								
	1	24	004689	EN20-20N-01	1SBE122111R0120		0.14	1
		230	004696	EN20-20N-06	1SBE122111R0620		0.14	1
Multiple packaging								
	1	24	005426	EN20-20N-01	1SBE122111M0120		0.14	12
		230	005433	EN20-20N-06	1SBE122111M0620		0.14	12



EN20..N

Dimensions mm, inches

Command and signaling

Installation contactors

Ordering details EN25..N, manually/automatic operated

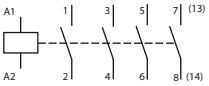
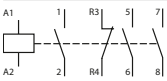
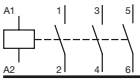
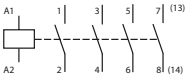
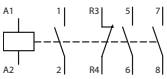
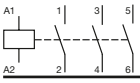


EN25..N

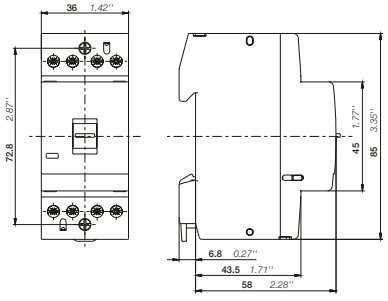
The EN25..N installation contactors are used to control single- and three-phase loads up to 25 A and can be operated by AC or DC voltages. They have a built-in toggle switch to be operated manually or automatically. These contactors are made for use in household applications as well as in industrial environment.

EN25..N series is providing the following benefits:

- Hum-free operation, low power consumption and integrated overvoltage protection and manual override.
- Various contact combinations and accessories are available.

Main contacts	Width[1]	Rated control circuit voltage	Bbn 4013614	Order details		Price 1 piece	Weight 1 piece	Pack unit
		V AC/DC	EAN	Type code	Order code		kg	pc.
Single packaging								
	2	24	524431	EN25- 40N- 01	1SAE232111R0140		0.250	1
		230 ... 240	524554	EN25-40N-06	1SAE232111R0640		0.240	1
	2	24	524424	EN25-31N-01	1SAE232111R0131		0.250	1
		230 ... 240	524547	EN25-31N-06	1SAE232111R0631		0.240	1
	2	230 ... 240	524530	EN25-30N-06	1SAE232111R0630		0.235	1
Multiple packaging								
	2	24	519871	EN25-40N-01	1SAE232111M0140		0.250	6
		230 ... 240	519994	EN25-40N-06	1SAE232111M0640		0.240	6
	2	24	519864	EN25-31N-01	1SAE232111M0131		0.250	6
		230 ... 240	519987	EN25-31N-06	1SAE232111M0631		0.240	6
	2	230 ... 240	519970	EN25-30N-06	1SAE232111M0630		0.235	6

(1) In number of modular spacings.



EN25..N

Dimensions mm, inches

Command and signaling

Installation contactors

Ordering details EN40..N, manually/automatic operated

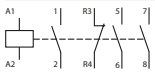
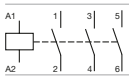
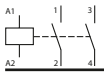
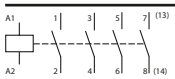
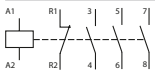
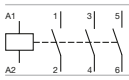
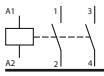


EN40..N

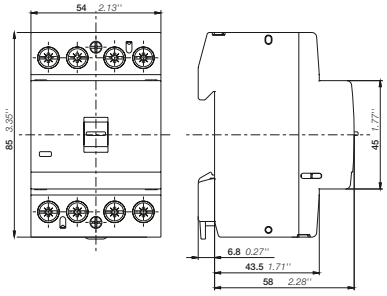
The EN40..N installation contactors are used to control single- and three-phase loads up to 40 A and can be operated by AC or DC voltages. They have a built-in toggle switch to be operated manually or automatically. These contactors are made for use in household applications as well as in industrial environment.

EN40..N series is providing the following benefits:

- Hum-free operation, low power consumption and integrated overvoltage protection and manual override.
- Various contact combinations and accessories are available.

Main contacts	Width[1]	Rated control circuit voltage[2]	Bbn 4013614	Order details		Price 1 piece	Weight 1 piece	Pack unit
		V AC/DC	EAN	Type code	Order code		kg	pc.
Single packaging								
	3	24	524943	EN40-40N-01	1SAE342111R0140		0.410	1
		230	525148	EN40-40N-06	1SAE342111R0640		0.410	1
	3	24	524936	EN40-31N-01	1SAE342111R0131		0.410	1
		230	525131	EN40-31N-06	1SAE342111R0631		0.410	1
	3	230	525124	EN40-30N-06	1SAE342111R0630		0.410	1
	3	230	525117	EN40-20N-06	1SAE342111R0620		0.375	1
Multiple packaging								
	3	24	520389	EN40-40N-01	1SAE342111M0140		0.410	4
		230	520587	EN40-40N-06	1SAE342111M0640		0.410	4
	3	24	520372	EN40-31N-01	1SAE342111M0131		0.410	4
		230	520570	EN40-31N-06	1SAE342111M0631		0.410	4
	3	230	520563	EN40-30N-06	1SAE342111M0630		0.410	4
	3	230	520556	EN40-20N-06	1SAE342111M0620		0.375	4

(1) In number of modular spacings.
(2) Other control voltages: see voltage code table and contact ABB for availability of products.



EN40..N

Dimensions mm, inches

Command and signaling

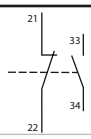
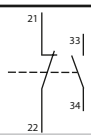
Installation contactors

Ordering details installation contactors accessories



EH04-20N

Auxiliary contact blocks

Suitable for	Auxiliary contacts	Bbn 4013614 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
Single packaging							
ESB16..N, ESB20..N, ESB25..N, ESB40..N, ESB63..N, ESB100..N, EN20..N, EN25..N, EN40..N		527814	EH04-11N	1SAE901901R1011		0.040	1
		527821	EH04-20N	1SAE901901R1020		0.040	1
Multiple packaging							
ESB16..N, ESB20..N, ESB25..N, ESB40..N, ESB63..N, ESB100..N, EN20..N, EN25..N, EN40..N		528019	EH04-11N	1SAE901901M1011		0.040	6
		528026	EH04-20N	1SAE901901M1020		0.040	6

Accessories



ESB-PLK24



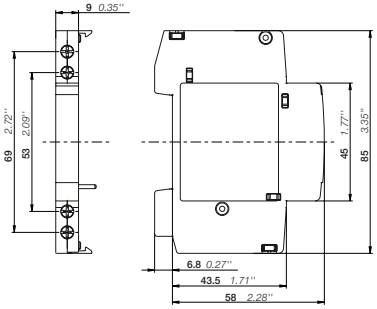
ESB-DIS



ESB-SPK40/63

Suitable for	Description	Bbn 4013614 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
Sealing covers							
ESB25..N, EN25..N	sealing cover	420221	ESB-PLK24	GHE3201903R0001		0.002	10
ESB40..N, ESB63..N, EN40..N	sealing cover	420931	ESB-PLK40/63	GHE3401903R0001		0.003	10
Distance piece							
ESB25..N, ESB40..N, ESB63..N, EN25..N, EN40..N	distance piece	420207	ESB-DIS[1)]	GHE3201902R0001		0.002	10

1) If several contactors are mounted adjacently and the duty time is longer than one hour, every second contactor needs a distance piece, Type ESB-DIS (1/2 module). This is not necessary at an ambient temperature ≤ 40 °C or on Type ESB16..N, ESB/EN20..N and ESB100..N.



EH04..N

Dimensions mm, inches

Command and signaling

E290 Latching relays



E290

E290 Latching Relay

General				
Overall depth		68 mm		
Overall width		1 module (18 mm)		
Color		grey, RAL 7035		
Climate resistance in accordance with		IEC 60068-2-2 (dry heat)		
		IEC 60068-2-30 (humid heat)		
		IEC 60068-2-1 (low temperature)		
Ambient temperature		-25°C to +55°C		
Storage temperature		-40°C to +70°C		
Contact system		Double interruption		
Tightening torque		1.2 - 1.5 Nm		
Weight		0.122 kg		
Standards	50 Hz	IEC/EN 60669-1; IEC/EN 60669-2-2		
	60 Hz	IEC 60669-1; IEC 60669-2-2		
Approvals	50 Hz	VDE; EAC		
	60 Hz	RINA		
Power Circuit				
Rated Current I_n				
E290-16-.../...		16 A		–
E290-32-.../...		–		32 A
Rated voltage U_n		250 VAC		250 VAC
Frequency		50/60 Hz		50/60 Hz
Short circuit withstand capacity I_{nc}		3 kA		3 kA
Back-up fuses (gL)		max. 16 A		max. 32 A
Latching Relay contact configurations for 16 A and 32 A Additional power contacts for 16 A (attachable) (not for 32 A version)			1NO; 2NO; 1NO + 1NC 1CO; 2NO; 1NO + 1NC	
Max. DC current per contact with 24 VDC		5 A		8 A
Bounce time	50 Hz		< 3 ms	
	60 Hz		< 6 ms	
Power loss in W per contact		0.32 W		1.2 W
Rated impulse withstand voltage U_{imp}			4 kV	
Max. lamp load				
Glow lamps (20 W - 200 W)		3000 W		4000 W
Flourescent lamps, uncorrected power factor (cos. 0.5)		1800 W		2200 W
Flourescent lamps, corrected power factor (cos. 0.9)				
serial		3000 W		4000 W
parallel		2500 W		3200 W
single		1800 W		2200 W
double		2500 W		3200 W
(see also lamp load table)				

Command and signaling
E290 Latching relays

E290 Latching Relay

Lifetime (switching cycles)								
Electrical (AC1 rated current load)		150000						
Mechanical		250000						
Connector cross-sections								
Connecting terminals		solid from 1x1 mm² to 1x10 mm² or 2x2.5 mm² flexible from 1x0.75 mm² to 1x16 mm² (Cu) with end ferrule or pin cable lug						
Control Circuit								
Rated control voltages U_n								
	AC:	8 V;	12 V;	24 V;	48 V;	115 V;	230 V	
	DC:	– ;	– ;	12 V*;	24 V;	60 V*;	110 V*	* for 50 Hz devices only
AC/DC ratio [1]		1: 0.5 (not available for 8 VAC and 12 VAC coils)						
Operation limits		+/- 10% = 0.9 - 1.1 x U_n						
Minimum command duration		50 ms						
Max. switching operations		15 x per min. at I_n 16 A; 8 x per min. at I_n 32 A						
switching noise		60 dB (A) (distance 1 m)						
Max. number of illuminated buttons (0.6 mA)		(see table on page 16)						
Max. glow lamp current parallel to the 230 V control buttons		5 mA						

Coil Consumption – E290 Latching Relay

Product type	Control voltage V AC	Coil consumption average pull-in current A	Control voltage V DC	Coil consumption average pull-in current A
E290				
	230	0.062	110*	0.057*
	115	0.070	60*	0.105*
	48	0.212	24	0.207
	24	0.434	12*	0.558*
	12	1.263	–	–
	8	2.048	–	–
E291S*				
	230	0.051	110	0.047
	24	0.378	12	0.355
	12	0.803	–	–
	8	1.088	–	–
E294				
	230	0.120	–	–
	24	0.684	–	–

1) Coil supply voltage: All E290 50Hz devices can be supplied with AC or DC control voltage.
The ratio of 1 : 0.5 applies, i.e. a 230 VAC coil can also be used for 110 VDC. (See Ordering data.)

NO = normally-open contact; NC = normally-closed contact; CO = changeover contact

* for 50 Hz devices only

Command and signaling
E290 Latching relays

Switching components for E290

E292-16-... Contact Module (attachable only to 16 A I_n version)		
Rated current I_n per E292 contact		16 A
Rated voltage U_n		250 VAC
Frequency		50/60 Hz
Max. no. attachable (additional main contacts)		1 unit (attachable on the right side of the main module)
Contact configurations		1CO; 2NO; 1NO+1NC
Max. DC current per contact with 24 VDC		8 A
Min. switching load (for 50 Hz devices only)		24 V; 10 mA
E299-... Auxiliary Contacts		
Max. no. attachable (signaling or control contacts)		1 unit (attachable on the right side of the main module)
Number of contacts		1 NO + 1 NC; 2 NO
Min. switching load		24 V, 10 mA
Max. current per contact with AC		5.0 A
Max. current per contact with 24 VDC		5.0 A

Control components for E290

E294 Central On-Off Control Module (different control voltage potential)		
Max. no. attachable		1 unit (attachable on the left side of the main module)
Rated current I_n max.		1 A
Rated voltage U_n		250 VAC
E295-PS Permanent Signal Module		
Max. no. attachable		1 unit (attachable on the left side of the main module)
Rated current I_n max.		1 A
Rated voltage U_n		250 VAC
E295-GM Group Module		
Use of group switching modules		1 unit per defined group
Rated current I_n max.		1 A
Rated voltage U_n		250 VAC
E296-CP Compensator		
Compensation when using illuminated buttons		Wiring parallel to the main module
Compensation	50 Hz	2.2 uF
	60 Hz	2.2 uF
Rated voltage U_n	50 Hz	250 VAC
	60 Hz	310 VAC

NO = normally-open contact; NC = normally-closed contact; CO = changeover contact

Command and signaling

E297 Installation relay



E297

E297 Installation Relays

General		
Overall depth		68 mm
Overall width		1 module (18 mm)
Colour		grey, RAL 7035
Climate resistance in accordance with		IEC 60068-2-2 (dry heat)
		IEC 60068-2-30 (humid heat)
		IEC 60068-2-1 (low temperatures)
Ambient temperature		- 25 °C to + 55 °C
Storage temperature		- 40 °C to + 70 °C
Tightening torque		1.2 - 1.5 Nm
Weight		0.122 kg
Standards		EN 60669-1; EN 60669-2-2
Approval		VDE; EAC
Power circuit		
Rated current In		16 A
Rated voltage Un		250 VAC
Frequency		50-60 Hz
Short circuit withstand capacity Inc		3 kA
Back-up fuses (gL)		max. 16 A
Installation relay contact configurations		1NO; 2NO; 1NO+1NC
Additional Power contacts 16A (attachable)		1CO; 2NO; 1NO+1NC
Max. DC current per contact with 24 VDC		8 A
Min. switching load		24 V; 10 mA
Bounce time		< 3 ms
Power loss in W per contact		0.50 W
Rated Impulse withstand voltage Uimp		4 kV
Max. lamp load		
Glow lamps (20 W-200 W)		3000 W
Fluorescent lamps, uncorrected power factor (cos. 0.5)		1800 W
Fluorescent lamps, corrected power factor (cos. 0.9)	serial	3000 W
	parallel	2500 W
	single	1800 W
	double	2500 W
(see also lamp load table)		
Lifetime (switching cycles)		
Electrical (AC1 rated current load)		150,000
Mechanical		250,000

NO = normally-open contact; NC = normally-closed contact; CO = changeover contact

Command and signaling
E297 Installation relay

E297 Installation Relays

Application categories			
Switching capacity in accordance with	AC-1 (based on EN 60947)	16 A	
	AC-5b (based on EN 60947)	5 A	
	AC-7a (based on EN 61095)	16 A	
	AC-7c (based on EN 61095)	5 A	
Connector cross-sections			
Main connecting terminals		solid from 1 x 1 mm2 to 1 x 10 mm2 or 2 x 2.5 mm2	
		flexible from 1 x 0.75 mm2 up to 1 x 6 mm2 (Cu)	
		with end ferrule or pin cable lug	
Control circuit			
Coil rated voltages Un AC/DC		8 VAC; 12 VAC; 24 VAC/24 VDC; 48 VAC/48 VDC;	
		115 VAC/110 VDC; 230 VAC	
AC/DC ratio 3)		1 : 1	
Operation limits		+/- 10 % = 0.9 - 1.1 x Un	
Switching noise		60 dB (A) (distance 1 m)	
Max. switching operations		15 x per min. at In 16 A	
Coil power loss			
		AC	DC
Pick up		< 2.8 VA	< 2.0 W
Holding		< 2.6 VA	< 1.8 W

Switching components for E297

E298 Contact Module	
Max. no. attachable 2) (additional main contacts)	1 unit (attachable on the right side of the main module)
Rated current In per E298 contact	16 A
Rated voltage Un	250 VAC
Frequency	50 Hz
Number of contacts	1CO; 2NO; 1NO+1NC
Max. DC current per contact with 24 VDC	5 A
Min. switching load	24 V; 10 mA
E299 - ... Auxiliary Contacts	
Max. no. attachable 2) (signaling or control contacts)	1 unit (attachable on the right side of the main module)
Number of contacts	1NO+1NC; 2NO
Max. current per contact with AC	5.0 A
Max. current per contact with 24 VDC	5.0 A

NO = normally-open contact; NC = normally-closed contact; CO = changeover contact
2) See overview of chapter 4

Command and signaling

E290 Latching relays



E290

Latching Relay

This 18 mm wide DIN rail mounted device is designed for direct installation in main distribution or sub-distribution systems (mounted on 35 mm DIN mounting rails). The devices are activated by means of control pulses and guarantee energy-optimized lighting control. As a rule, installations with latching relays are used where the lighting control system can be operated from at least three points in different locations. Those latching relays are designed for a rated current of 16 A or 32 A.

Standard number of contacts:
1 NO contact, 2 NO contacts or 1 NO contact + 1 NC contact

The number of switching contacts can be increased by a maximum of two main contacts using a snap-on main module (E292-..-..). As a result, up to four lighting sets can be switched by a single device.
A signaling and/or indicating facility can be created using the additional snap-on auxiliary contact module (E299-11).
The various standard AC/DC coil voltages complete the comprehensive and interesting product range. The additional devices can be snapped onto the latching relay on the left or right side.

Rated current = 16 A

Contact config.	Power loss	Width [mm]	Coil control voltage	Bbn 7612270	Order details		Price 1 piece	Weight	Pack unit
	[W]		[VAC/VDC]	EAN	Type code	Order code		kg.	pc.
1NO	0.32	18	8VAC	939558	E290-16-10/8	2TAZ312000R2061		0.114	10
	0.32	18	12VAC	939565	E290-16-10/12	2TAZ312000R2051		0.114	10
	0.32	18	24VAC/12VDC	939572	E290-16-10/24	2TAZ312000R2041		0.114	10
	0.32	18	48VAC/24VDC	939589	E290-16-10/48	2TAZ312000R2031		0.114	10
	0.32	18	115VAC/60VDC	939596	E290-16-10/115	2TAZ312000R2021		0.114	10
	0.32	18	230VAC/110VDC	939602	E290-16-10/230	2TAZ312000R2011		0.114	10

Rated current = 32 A

Contact config.	Power loss	Width [mm]	Coil control voltage	Bbn 7612270	Order details		Price 1 piece	Weight	Pack unit
	[W]		[VAC/VDC]	EAN	Type code	Order code		kg.	pc.
1NO	1.20	18	8VAC	939619	E290-32-10/8	2TAZ322000R2061		0.114	10
	1.20	18	12VAC	939626	E290-32-10/12	2TAZ322000R2051		0.114	10
	1.20	18	24VAC/12VDC	939633	E290-32-10/24	2TAZ322000R2041		0.114	10
	1.20	18	48VAC/24VDC	939640	E290-32-10/48	2TAZ322000R2031		0.114	10
	1.20	18	115VAC/60VDC	939657	E290-32-10/115	2TAZ322000R2021		0.114	10
	1.20	18	230VAC/110VDC	939664	E290-32-10/230	2TAZ322000R2011		0.114	10

Rated current = 16 A

Contact config.	Power loss	Width [mm]	Coil control voltage	Bbn 7612270	Order details		Price 1 piece	Weight	Pack unit
	[W]		[VAC/VDC]	EAN	Type code	Order code		kg.	pc.
2NO	0.64	18	8VAC	939671	E290-16-20/8	2TAZ312000R2062		0.122	10
	0.64	18	12VAC	939688	E290-16-20/12	2TAZ312000R2052		0.122	10
	0.64	18	24VAC/12VDC	939695	E290-16-20/24	2TAZ312000R2042		0.122	10
	0.64	18	48VAC/24VDC	939701	E290-16-20/48	2TAZ312000R2032		0.122	10
	0.64	18	115VAC/60VDC	939718	E290-16-20/115	2TAZ312000R2022		0.122	10
	0.64	18	230VAC/110VDC	939725	E290-16-20/230	2TAZ312000R2012		0.122	10

NO = normally-open contact; NC = normally-closed contact; CO = changeover contact

Command and signaling

E290 Latching relays

Rated current = 32 A									
Contact config.	Power loss	Width [mm]	Coil control voltage	Bbn 7612270	Order details		Price 1 piece	Weight	Pack unit
	[W]		[VAC/VDC]	EAN	Type code	Order code		kg.	pc.
2NO	2.40	18	8VAC	939732	E290-32-20/8	2TAZ322000R2062		0.122	10
	2.40	18	12VAC	939749	E290-32-20/12	2TAZ322000R2052		0.122	10
	2.40	18	24VAC/12VDC	939756	E290-32-20/24	2TAZ322000R2042		0.122	10
	2.40	18	48VAC/24VDC	939763	E290-32-20/48	2TAZ322000R2032		0.122	10
	2.40	18	115VAC/60VDC	939770	E290-32-20/115	2TAZ322000R2022		0.122	10
	2.40	18	230VAC/110VDC	939787	E290-32-20/230	2TAZ322000R2012		0.122	10

Rated current = 16 A									
Contact config.	Power loss	Width [mm]	Coil control voltage	Bbn 7612270	Order details		Price 1 piece	Weight	Pack unit
	[W]		[VAC/VDC]	EAN	Type code	Order code		kg.	pc.
1NO+1NC	0.50	18	8VAC	939794	E290-16-11/8	2TAZ312000R2063		0.122	10
	0.50	18	12VAC	939800	E290-16-11/12	2TAZ312000R2053		0.122	10
	0.50	18	24VAC/12VDC	939817	E290-16-11/24	2TAZ312000R2043		0.122	10
	0.50	18	48VAC/24VDC	939824	E290-16-11/48	2TAZ312000R2033		0.122	10
	0.50	18	115VAC/60VDC	939831	E290-16-11/115	2TAZ312000R2023		0.122	10
	0.50	18	230VAC/110VDC	939848	E290-16-11/230	2TAZ312000R2013		0.122	10

Rated current = 32 A									
Contact config.	Power loss	Width [mm]	Coil control voltage	Bbn 7612270	Order details		Price 1 piece	Weight	Pack unit
	[W]		[VAC/VDC]	EAN	Type code	Order code		kg.	pc.
1NO+1NC	1.20	18	8VAC	939855	E290-32-11/8	2TAZ322000R2063		0.122	10
	1.20	18	12VAC	939862	E290-32-11/12	2TAZ322000R2053		0.122	10
	1.20	18	24VAC/12VDC	939879	E290-32-11/24	2TAZ322000R2043		0.122	10
	1.20	18	48VAC/24VDC	939886	E290-32-11/48	2TAZ322000R2033		0.122	10
	1.20	18	115VAC/60VDC	939893	E290-32-11/115	2TAZ322000R2023		0.122	10
	1.20	18	230VAC/110VDC	939909	E290-32-11/230	2TAZ322000R2013		0.122	10

NO = normally-open contact; NC = normally-closed contact; CO = changeover contact

Command and signaling

E290 Latching relays



E291S



E292



E294



E295



E299

Sequential Latching Relay

The sequential latching relay is an 18 mm wide device which has two NO contacts. The preset switching sequence for the main contacts enables the switching on and off, of different lighting sets to be „programmed“. The E291S has an easily visible switch position display on the front.

Rated current = 16 A									
Contact config.	Power loss	Width [mm]	Coil control voltage	Bbn 7612270	Order details		Price 1 piece	Weight	Pack unit
	[W]		[VAC/VDC]	EAN	Type code	Order code		kg.	pc.
2NO	0.64	18	8VAC	939919	E291S-16-20/8	2TAZ313000R2062		0.110	10
	0.64	18	12VAC	939923	E291S-16-20/12	2TAZ313000R2052		0.110	10
	0.64	18	24VAC/12VDC	939930	E291S-16-20/24	2TAZ313000R2042		0.110	10
	0.64	18	230VAC/110VDC	939947	E291S-16-20/230	2TAZ313000R2012		0.110	10

Accessories for E290 Latching Relays

Accessories and additional devices for combinations with Latching Relays

Main Contact Module

Rated current = 16 A									
Contact config.	Power loss	Width [mm]	Coil control voltage	Bbn 7612270	Order details		Price 1 piece	Weight	Pack unit
	[W]		[VAC/VDC]	EAN	Type code	Order code		kg.	pc.
2NO	0.64	9		939480	E292-16-20	2CCA704300R0001		0.045	10
1NO+1NC	0.32	9		939503	E292-16-11	2CCA704301R0001		0.045	10
1CO	0.32	9		939527	E292-16-001	2CCA704302R0001		0.045	10

Central On-Off Control Module (with different control voltages)

		18	24VAC	939411	E294/24	2TAZ312001R2043	0.110	5
		18	230VAC	939442	E294/230	2TAZ312001R2013	0.110	5

Permanent Signal Module

		18		939459	E295-PS	2TAZ312005R1003	0.041	10

Group Module

		18		939466	E295-GM	2TAZ310002R1000	0.059	10

Compensator

		18		939473	E296-CP	2TAZ310003R1000	0.055	10

Auxiliary Contact for Latching and Installation relays

Rated current = 5 A								
1NO+1NC	0.10	9	250VAC	939985	E299-11	2CCA704340R0001	0.045	10
2NO	0.10	9	250VAC	465346*	E299-20	2CCA704341R0001	0.045	10

* with Bbn 7612271

Intermediate piece (for heating dissipation - bag contains 5 items)

		18		100989	ZLS725	2CCS500900R0181	0.100	1 bag
		9		104703	ZLS726	2CCS400900R0091	0.070	1 bag

Command and signaling

E290 60Hz Mechanical latching relay – Ordering data

Standard devices – E290 60 Hz Latching Relay

Cont. config.	Rated Voltage	Power loss	Width	Coil control voltage	Ordering data		Bbn 7612271	Weight per unit	Pack. unit
	VAC	W	mm	VAC/VDC	Type code	Order code	EAN	kg	units
Rated current = 16 A									
1NO	250	0.32	18	230VAC	E290-16-10/230-60	2TAZ352000R2011	503901	0.111	10
1NO	250	0.32	18	115VAC	E290-16-10/115-60	2TAZ352000R2021	504328	0.111	10
1NO	250	0.32	18	48VAC	E290-16-10/48-60	2TAZ352000R2031	504359	0.111	10
1NO	250	0.32	18	24VAC	E290-16-10/24-60	2TAZ352000R2041	504380	0.111	10
1NO	250	0.32	18	24VDC	E290-16-10/24DC	2TAZ352000R2071	504472	0.111	10
1NO	250	0.32	18	12VAC	E290-16-10/12-60	2TAZ352000R2051	504410	0.111	10
1NO	250	0.32	18	8VAC	E290-16-10/8-60	2TAZ352000R2061	504441	0.111	10
2NO	250	0.64	18	230VAC	E290-16-20/230-60	2TAZ352000R2012	503918	0.122	10
2NO	250	0.64	18	115VAC	E290-16-20/115-60	2TAZ352000R2022	504335	0.122	10
2NO	250	0.64	18	48VAC	E290-16-20/48-60	2TAZ352000R2032	504366	0.122	10
2NO	250	0.64	18	24VAC	E290-16-20/24-60	2TAZ352000R2042	504397	0.122	10
2NO	250	0.64	18	24VDC	E290-16-20/24DC	2TAZ352000R2072	504489	0.122	10
2NO	250	0.64	18	12VAC	E290-16-20/12-60	2TAZ352000R2052	504427	0.122	10
2NO	250	0.64	18	8VAC	E290-16-20/8-60	2TAZ352000R2062	504458	0.122	10
1NO+1NC	250	0.50	18	230VAC	E290-16-11/230-60	2TAZ352000R2013	504311	0.121	10
1NO+1NC	250	0.50	18	115VAC	E290-16-11/115-60	2TAZ352000R2023	504342	0.121	10
1NO+1NC	250	0.50	18	48VAC	E290-16-11/48-60	2TAZ352000R2033	504373	0.121	10
1NO+1NC	250	0.50	18	24VAC	E290-16-11/24-60	2TAZ352000R2043	504403	0.121	10
1NO+1NC	250	0.50	18	24VDC	E290-16-11/24DC	2TAZ352000R2073	504496	0.121	10
1NO+1NC	250	0.50	18	12VAC	E290-16-11/12-60	2TAZ352000R2053	504434	0.121	10
1NO+1NC	250	0.50	18	8VAC	E290-16-11/8-60	2TAZ352000R2063	504465	0.121	10
Rated current = 32 A									
1NO	250	1.20	18	230VAC	E290-32-10/230-60	2TAZ362000R2011	504502	0.111	10
1NO	250	1.20	18	115VAC	E290-32-10/115-60	2TAZ362000R2021	504533	0.111	10
1NO	250	1.20	18	48VAC	E290-32-10/48-60	2TAZ362000R2031	504564	0.111	10
1NO	250	1.20	18	24VAC	E290-32-10/24-60	2TAZ362000R2041	504595	0.111	10
1NO	250	1.20	18	12VAC	E290-32-10/12-60	2TAZ362000R2051	504625	0.111	10
1NO	250	1.20	18	8VAC	E290-32-10/8-60	2TAZ362000R2061	504656	0.111	10
2NO	250	2.40	18	230VAC	E290-32-20/230-60	2TAZ362000R2012	504519	0.123	10
2NO	250	2.40	18	115VAC	E290-32-20/115-60	2TAZ362000R2022	504540	0.123	10
2NO	250	2.40	18	48VAC	E290-32-20/48-60	2TAZ362000R2032	504571	0.123	10
2NO	250	2.40	18	24VAC	E290-32-20/24-60	2TAZ362000R2042	504601	0.123	10
2NO	250	2.40	18	12VAC	E290-32-20/12-60	2TAZ362000R2052	504632	0.123	10
2NO	250	2.40	18	8VAC	E290-32-20/8-60	2TAZ362000R2062	504663	0.123	10
1NO+1NC	250	1.20	18	230VAC	E290-32-11/230-60	2TAZ362000R2013	504526	0.121	10
1NO+1NC	250	1.20	18	115VAC	E290-32-11/115-60	2TAZ362000R2023	504557	0.121	10
1NO+1NC	250	1.20	18	48VAC	E290-32-11/48-60	2TAZ362000R2033	504588	0.121	10
1NO+1NC	250	1.20	18	24VAC	E290-32-11/24-60	2TAZ362000R2043	504618	0.121	10
1NO+1NC	250	1.20	18	12VAC	E290-32-11/12-60	2TAZ362000R2053	504649	0.121	10
1NO+1NC	250	1.20	18	8VAC	E290-32-11/8-60	2TAZ362000R2063	504670	0.121	10

Command and signaling

E290 60Hz Mechanical latching relay – Ordering data

Accessories and additional devices for combinations with Latching relays

Cont. config.	Rated Voltage VAC	Power loss W	Width mm	Coil control voltage VAC/VDC	Ordering data Type code	Order code	Bbn 7612270 EAN	Weight per unit kg	Pack. unit units
Main Contact Module (Rated current = 16 A)									
1NO+1NC	250	0.32	9		E292-16-11-60	2CCA704306R0001	503017	0.045	10
2NO	250	0.64	9		E292-16-20-60	2CCA704305R0001	503024	0.045	10
1CO	250	0.32	9		E292-16-001-60	2CCA704307R0001	503000	0.045	10
Central ON-OFF Control Module (with different control voltages)									
			18	230VAC	E294/230-60	2TAZ352001R2013	504687	0.110	5
			18	24VAC	E294/24-60	2TAZ352001R2043	504694	0.109	5
Permanent Signal Module									
			9		E295-PS	2TAZ312005R1003	939459	0.041	10
Group Module									
			18		E295-GM	2TAZ310002R1000	939466	0.059	10
Compensator									
			18		E296-CP	2TAZ310003R1000	939473	0.055	10
Auxiliary Contact for Latching and Installation Relays (Rated current = 5 A)									
1NO+1NC	250	0.10	9		E299-11-60	2CCA704342R0001	503031	0.045	10
2NO	250	0.10	9		E299-20-60	2CCA704343R0001	503048	0.045	10
Intermediate piece (for heating dissipation – bag contains 5 items)									
			18		ZLS725	2CCS500900R0181	100989	0.100	1 bag
			9		ZLS726	2CCS400900R0091	104703	0.070	1 bag

* with Bbn 7612271
NO = normally-open contact; NC = normally-closed contact; CO = changeover contact

Command and signaling

E297 Installation relay



E297

E297 Installation Relays

The E297 installation relay is an electromechanical switching device controlled by means of a continuous pulse. The coils have a low level of switching noise, are optimized for low power loss and therefore ensure safe and fault-free use in various applications. Either AC or DC control voltage can be applied. The installation relay is designed for a rated current of 16 A.

Standard number of contacts:

1 NO contact, 2 NO contacts or 1 NO contact + 1 NC contact

In addition, the number of main contacts can be increased to four contact lines using the snap-on E298 Main contact module so that three different groups of loads can be switched and controlled safely.

The various AC/DC coil voltages complete the comprehensive and interesting product range. The additional devices can be snapped onto the installation relay on the right side.

Rated current = 16 A

Contact config.	Power loss	Width [mm]	Coil control voltage	Bbn 7612270	Order details		Price 1 piece	Weight	Pack unit
	[W]		[VAC/VDC]	EAN	Type code	Order code		kg.	pc.
1NO	0.50	18	8VAC	940004	E297-16-10/8	2TAZ311000R2061		0.113	10
	0.50	18	12VAC	940011	E297-16-10/12	2TAZ311000R2051		0.113	10
	0.50	18	24VAC/24VDC	940028	E297-16-10/24	2TAZ311000R2041		0.113	10
	0.50	18	48VAC/48VDC	940035	E297-16-10/48	2TAZ311000R2031		0.113	10
	0.50	18	115VAC/110VDC	940042	E297-16-10/115	2TAZ311000R2021		0.113	10
	0.50	18	230VAC	940059	E297-16-10/230	2TAZ311000R2011		0.113	10

Rated current = 16 A

Contact config.	Power loss	Width [mm]	Coil control voltage	Bbn 7612270	Order details		Price 1 piece	Weight	Pack unit
	[W]		[VAC/VDC]	EAN	Type code	Order code		kg.	pc.
1NO+1NC	0.50	18	8VAC	940066	E297-16-11/8	2TAZ311000R2063	940066	0.121	10
	0.50	18	12VAC	940073	E297-16-11/12	2TAZ311000R2053	940073	0.121	10
	0.50	18	24VAC/24VDC	940080	E297-16-11/24	2TAZ311000R2043	940080	0.121	10
	0.50	18	48VAC/48VDC	940097	E297-16-11/48	2TAZ311000R2033	940097	0.121	10
	0.50	18	115VAC/110VDC	940103	E297-16-11/115	2TAZ311000R2023	940103	0.121	10
	0.50	18	230VAC	940110	E297-16-11/230	2TAZ311000R2013	940110	0.121	10

Rated current = 16 A

Contact config.	Power loss	Width [mm]	Coil control voltage	Bbn 7612270	Order details		Price 1 piece	Weight	Pack unit
	[W]		[VAC/VDC]	EAN	Type code	Order code		kg.	pc.
2NO	1.00	18	8VAC	940127	E297-16-20/8	2TAZ311000R2062		0.121	10
	1.00	18	12VAC	940134	E297-16-20/12	2TAZ311000R2052		0.121	10
	1.00	18	24VAC/24VDC	940141	E297-16-20/24	2TAZ311000R2042		0.121	10
	1.00	18	48VAC/48VDC	940158	E297-16-20/48	2TAZ311000R2032		0.121	10
	1.00	18	115VAC/110VDC	940165	E297-16-20/115	2TAZ311000R2022		0.121	10
	1.00	18	230VAC	940172	E297-16-20/230	2TAZ311000R2012		0.121	10

Command and signaling

E297 Installation relay



E298



E299

Accessories for E297 Installation Relays

Accessories and additional devices for combinations with Installation Relays

Main Contact Module 16A

Rated current = 16 A

Contact config.	Power loss [W]	Width [mm]	Coil control voltage [VAC/VDC]	Bbn 7612270 EAN	Order details Type code	Order details Order code	Price 1 piece	Weight kg.	Pack unit pc.
2NO	0.64	9		939961	E298-16-20	2CCA704320R0001		0.045	10
1NO+1NC	0.32	9		939954	E298-16-11	2CCA704321R0001		0.045	10
1CO	0.32	9		939978	E298-16-001	2CCA704322R0001		0.045	10

Contact config.	Power loss [W]	Width [mm]	Coil control voltage [VAC/VDC]	Bbn 7612270 EAN	Order details Type code	Order details Order code	Price 1 piece	Weight kg.	Pack unit pc.

Auxiliary Contact for Latching and Installation relays

Rated current = 5 A

1NO+1NC	0.10	9	250VAC	939985	E299-11	2CCA704340R0001		0.045	10
2NO	0.10	9	250VAC	465346*	E299-20	2CCA704341R0001		0.045	10

* with Bbn 7612271

Intermediate piece (for heating dissipation - bag contains 5 items)

		18		100989	ZLS725	2CCS500900R0181		0.100	1 bag
		9		104703	ZLS726	2CCS400900R0091		0.070	1 bag

Notes

Command and signaling
STD50 dimmers



STD 50



STD-EP

Technical features	
Rated voltage	230 V ~ 50 Hz
Ambient temperature	0 °C to + 35 °C
Interference suppression	CE

STD50 dimmers for the control of lamps and ballast

Dimmer for brightness control of filament lamps , 230 V tungsten halogen lamps, lv halogen lamps with conventional transformers (phase control)

Description/ application	Power loss	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	W	EAN	Type code	Order code		kg	pc.
	5 ①	02790 6	STD 50-3	GHV0211370R0074		0.155	1

Dimmer for brightness control of filament lamps , 230 V tungsten halogen lamps, lv halogen lamps with ABB electronic transformers (reverse phase)

Description/ application	Power loss	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	W	EAN	Type code	Order code		kg	pc.
	4 ①	03300 8	STD 50-4	GHV0211370R0075		0.105	1

① power loss = 1% of connected load (4 or 5 W max)

Electronic potentiometer for electronic control gear with control input 0/1 - 10 V DC, control current 50 mA DC Rated current (terminal 3 and 4) 4 A cosφ = 0.9; switching capacity 700 VA

Description/ application	Power loss	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	W	EAN	Type code	Order code		kg	pc.
	5 ②	27050 2	STD-EP	GHV0211370R0076		0.073	1

Memory touch controller for electronic control gear Rated voltage/switching output 4 A (~ 10 electronic control gear units) cosφ = 0.9; 3 A cosφ = 0.5, switching capacity 700 VA

Description/ application	Power loss	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	W	EAN	Type code	Order code		kg	pc.
for electronic control gear with control input 1 – 10 V DC control current 50 mA max.	1	27070 0	STD-MTS	GHV0210881R0004		0.110	1

② power loss = 1% of connected load (7 W max)

Command and signaling

STD universal dimmer for phase control and reverse phase control



STD-500 U



STD-420 E







STD OCP, STD-OCD, STD-OCT

Technical features		
Rated voltage		230 V ~ ± 10%, 50/60 Hz
Rated current	STD U	2.17 A
	STD E	1.83 A
Max. connected load	U	500 W/VA
	E	420 W/VA
Power extension		1 U + max. 6 E/phase = > max. 3 kVA
Min. connected load	STD U	60 W/VA
	STD E	200 W/VA
Max. line length		100 m pushbutton cable, 2 m data line
Interference suppression		CE
Ambient temperature		0 ... + 45 °C, higher temperatures reduce the power

Electronic protection against short circuit, overload, excessive temperature, automatic load recognition, soft-OFF function optional, memory function, minimum brightness control, visual overload indication.

Universal dimmer for phase control and reverse phase control
Universal dimmer STD-500 U and the connected power extension unit STD-420 E are suitable for the brightness control of:
- glow lamps
- 230 V halogen glow lamps
- lv halogen glow lamps with conventional transformer (phase control)
- electronic transformers for lv halogen glow lamps (reverse phase control) e.g.: ABB ETR-70-230, 105-230, 150-230

The STD-500 U dimmer can be operated by one or more unlit pushbuttons (N- or L-controlled) or via a data line:
- EIB control element SB/S
- Powernet control element PSB

Power unit STD-420 E is used to boost the connected load and is controlled exclusively by the preset command of the STD-500 U dimmer. The parallel connection of the outputs of the universal high-performance dimmer and the pertaining power extensions (up to 6 units; connection with enclosed RJ 12 line cut to length) allow for a dimming power of 3,000 W/VA max at one load line.
Not suitable for dimming fluorescent lamps, transformers with current monitor and high-reactance transformers.

Contacts	Power loss	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	W	EAN	Type code	Order code		kg	pc.
high-performance dimmer	6	066928	STD-500 U	GJB0006590A0178			1
extension	6	066935	STD-420 E	GJB0006590A0179			1
rotary operation element	–	066980	STD-OCD	GJB0006590A0183			1
button operation element	–	066959	STD-OCP	GJB0006590A0181			1
timer operation element	–	070567	STD-OCT	GJB0006590A0185			1

Note: Load and control cables must not be laid in one cable

Command and signaling

STD universal dimmer for phase control and reverse phase control

Plug-in operation elements:
pushbutton operation element (STD-OCP)
rotary operation element (STD-OCD)
timer (STD-OCT)

Application
Remove dimmer cap and snap on operation element to provide for control of dimmer with central pushbutton or rotary operation. Local operation elements are still active.
Apart from the manual local control feature, the timer also allows for time-programmed operations.

Basic timer functions:
- year time switch with 48 time programs
- optional with/without decentralized pushbutton control
- special programs: adjustable background brightness, cycle, display and emergency light, holiday program
- running reserve: 5 hours



6586-500

The universal Master dimmer for LED retrofit Lamps. 6586-500

Product advantages
- Reliable and comfortable dimming of LED lamps
- Tuned to replacement lamps (retrofit LEDs)
- Brightness regulator downward compatible also suitable for conventional incandescent lamps, 230 V halogen lamps and low-voltage halogen lamps with conventional inductive and electronic transformers.
- Touch-dimmer with local operation
- Adjustable minimum / maximum brightness Staircase light function with automatic switch-off function and pre-warning function according to DIN 18015-2
- Perfect function and comfortable operation
- Harmonious and flicker-free dimming process
- No humming or buzzing due to transistor technology
- Numerous practical special functions
- Extremely compact construction as MDRC device (1 MW)

Tecnical features	
Max. connected load	2 - 100 W/VA (Retrofit-LED-load).
Max. connected load	10 - 200 W/VA (Non-LED-load).
Rated voltage	230 V~, +10 % / -10 %, 50 Hz - 60 Hz
Ambient temperature	0 °C bis 35 °C
Standards	IEC 60669-2-1, British Standard EN 60669-2-1

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	208519	6586-500	6590-0-0191			1

Command & Signalling

Busch-Dimmer®

Product	**Article-No.**	Order-No.	Pack/Qty
	**Busch-Dimmer® [1) 2) 3) 4) 5)]** **MDRC, LED, 20-800 W** Touch dimmer with local operation. Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230V tungsten halogen lamps and lowvoltage halogen lamps with conventional transformers or electronic transformers and dimmable halogen energy-saving lamps. Mix operaton of LEDi with conventional loads possible. With the following functions: memory, snooze, wake-up, children's room, central off, cleaning light and time function. For staircase lighting control with automatic switch-off and warning function according to DIN 18015-2. Supports the adherence to the energy saving ordinance (EnEV 2014). Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. With manually adjustable operating mode: trailing / leading edge control. With adjustable minimum/maximum brightness. With light value storage. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Extension unit input for short switching pulses (push-button) and continuous contact (switch/timer). Extension unit input designed as wide voltage input (8-230 V; AC/DC); galvanic isolation. Nominal voltage: 110 - 230 V, +10% / -10% Rated frequency: 50 Hz/60 Hz Nominal power: 20 - 300 W/VA (leading edge control in 230 V~ networks) Nominal power: 40 - 800 W/VA (trailing edge control in 230 V~ networks) Nominal power: 20 - 150 W/VA (leading edge control in 110/127 V~ networks) Nominal power: 40 - 400 W/VA (trailing edge control in 110/127 V~ networks) Rated voltage: 110 - 230 V, +10 % / -10 % Temperature range (Device): 0 °C to 35 °C Module width: 4 MW IEC 60669-2-1, British Standard EN 60669-2-1 		
grey	**STD 6586/14**	2CKA006590A0193	1

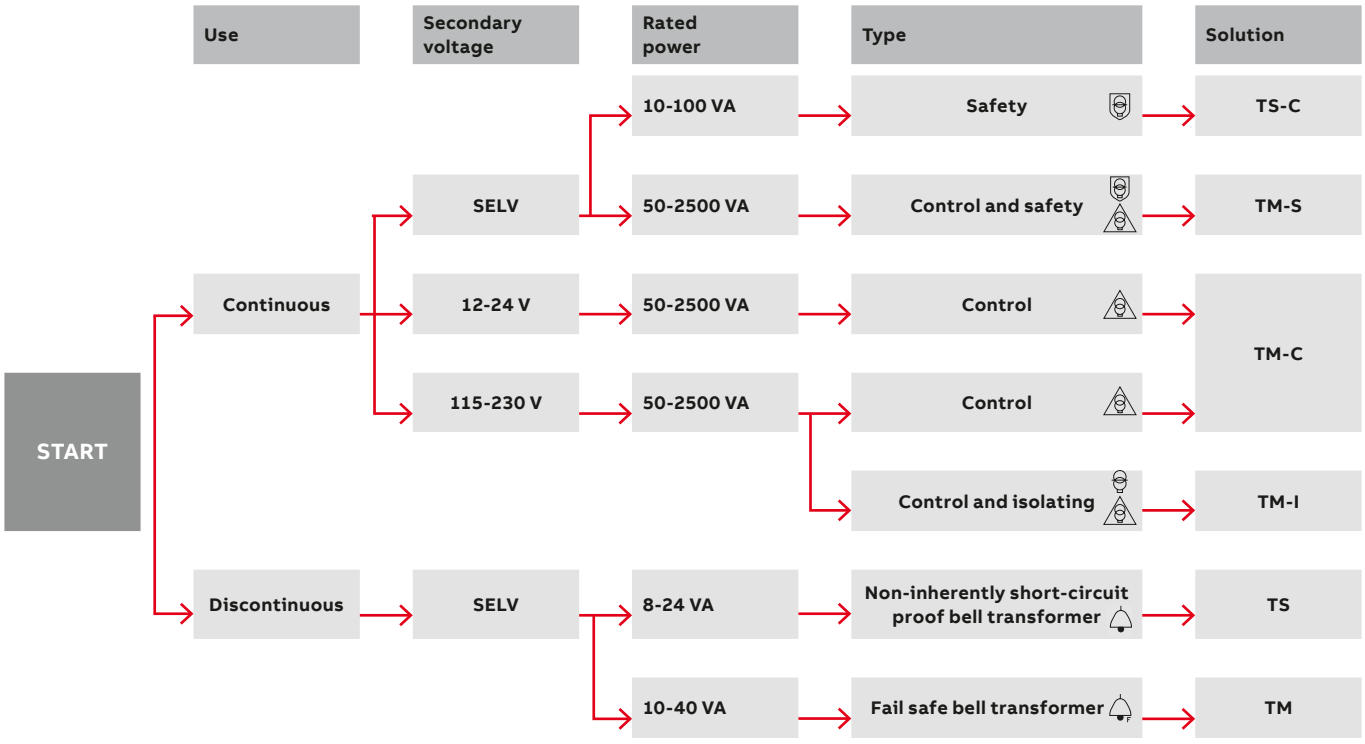
[1)] Illumination of the push switch is only possible with N-conductor terminal.
[2)] In case of electronic transformers, 5 % transformer losses.
[3)] In the case of conventional transformers, take ~20% transformer loss into account.
[4)] 1 MW ¤ 18 mm.
[5)] Recommendation: Please use loads and types of one producer..

Command and signaling

Transformers selection table

		Bell transformers for discontinuous use	
			
Series		TM	TS
Reference standard		IEC EN 61558-2-8	IEC EN 61558-2-8
Classification		Fail safe	Non-inherently short-circuit proof
Thermal protection integrated in secondary			■
Rated power		10, 15, 30, 40 VA	8, 16, 24 VA
Operation		Discontinuous	Discontinuous
Primary circuit voltage ratings		230 V a.c.	230 V a.c.
Secondary circuit characteristics	Double insulation between primary and secondary windings	■	■
	Full power on all outputs		
	SELV secondary (no-load output voltage <50 V a.c.)	■	■
Dimensions		2 modules [10, 15 VA]	2 modules [8, 16 VA]
		3 modules [30, 40 VA]	3 modules [24 VA]

① See page 6/58 for the choice of the protections.



Command and signaling

Transformers selection table

Safety transformers for general use	Control transformers for general use	Control and Safety transformers for general use	Control and Isolating transformers for general use
			
TS-C	TM-C	TM-S	TM-I
IEC EN 61558-2-6	CEI EN 61558-2-2	CEI EN 61558-2-2 CEI EN 61558-2-6	CEI EN 61558-2-2 CEI EN 61558-2-4
Non-inherently short-circuit proof	Non-short-circuit proof control transformer a	Non-short-circuit-proof control and safety transformer a	Non-short-circuit-proof control and isolating transformer a
■			
10, 16, 25, 40, 63, 100 VA	50 to 2500 VA	50 to 2500 VA	50 to 2500 VA
Continuous	Continuous	Continuous	Continuous
230 V a.c.	230/400 V a.c.	230/400V a.c.	230/400 V a.c.
■		■	■
■	■	■	■
■		■	
2 modules [10 VA]	See overall dimensions 13/60	See overall dimensions 13/60	See overall dimensions 13/60
3 modules [16 VA]			
4 modules [25 VA, 40 VA]			
5 modules [63 VA]			
6 modules [100 VA]			



Bell transformer **TM, TS**

Transformers for supplying extra low voltage, suitable for loads that require a discontinuous supply, in particular doorbells and chimes. The primary and secondary circuits are perfectly isolated and separated.
Reference standard: IEC EN 61558-2-8



Control transformer **TM-C, TM-S*, TM-I***

Transformer for supplying control circuits, for example commands, signaling, interlocks, etc.
Reference standard: CEI EN 61558-2-2



Safety transformer **TS-C, TM-S***

Isolation transformer for supplying safety extra low voltage circuits (<50 V on no load). Accidental contact with the secondary winding phases can be withstood without any danger.
Reference standard: CEI EN 61558-2-6



Isolating transformer **TM-I***

Transformer in which the primary and secondary windings are electrically separated by a double or reinforced insulation, to protect the circuit supplied by the secondary against hazards due to accidental simultaneous contact with earth and live parts, or grounded parts that may become live in the event of an insulation fault.
Reference standard: CEI EN 61558-2-4

* TM-S and TM-I both comply to two standards.

Command and signaling

Control, isolating and safety transformers selection table

Selection table of products and secondary protections

Primary protection: see in Chapter 6 of Electrical installation solutions for buildings - Technical details






		TM-C Control				TM-S Control/Safety				TM-I Control/Isolating	
Power VA	Secondary voltage	12 V	24 V	115 V	230 V	12 V	24 V	24 V	48 V	115 V	230 V
50	Transformer	2CSM207113R0801		2CSM207213R0801		2CSM236893R0801		2CSM204653R0801 ②		2CSM204583R0801	
	Fuse gauge ①	4 A	2 A	0.4 A	0.2 A	4 A	2 A	2 A	1 A	0.4 A	0.2 A
100	Transformer	2CSM207103R0801		2CSM236933R0801		2CSM207163R0801		2CSM204643R0801		2CSM201123R0801	
	Fuse gauge ①	8 A	4 A	0.8 A	0.4 A	8 A	4 A	4 A	2 A	0.8 A	0.4 A
	Breaker type	S202 C8	S202 C4	S202 C1	S202 C0,5	S202 C8	S202 C4	S202 C4	S202 C2	S202 C1	S202 C0,5
160	Transformer	2CSM236853R0801		2CSM207203R0801		2CSM202073R0801		2CSM204633R0801		2CSM204533R0801	
	Fuse gauge ①	12 A	6.3 A	1.25 A	0.63 A	12 A	6,3 A	6.3 A	3.15 A	1.25 A	0.63 A
	Breaker type	S202 C13	S202 C8	S202 C1.6	S202 C-	S202 C13	S202 C8	S202 C8	S202 C4	S202 C1.6	-
200	Transformer	2CSM236823R0801		2CSM236883R0801		2CSM260043R0801				2CSM204513R0801	
	Fuse gauge ①	16 A	8 A	1.6 A	0.8 A	16 A	8 A			1.6 A	0.8 A
	Breaker type	S202 C16	S202 C8	S202 C2	S202 C1	S202 C16	S202 C8			S202 C2	S202 C1
250	Transformer	2CSM207093R0801		2CSM236923R0801		2CSM260063R0801		2CSM204673R0801		2CSM204493R0801	
	Fuse gauge ①	20 A	10 A	2 A	1 A	20 A	10 A	10 A	5 A	2 A	1 A
	Breaker type	S202 C20	S202 C10	S202 C2	S202 C1	S202 C20	S202 C10	S202 C10	S202 C6	S202 C2	S202 C1
320	Transformer	2CSM236843R0801		2CSM236923R0801		2CSM260063R0801		2CSM204673R0801		2CSM204493R0801	
	Fuse gauge ①	25 A	12 A	2.5 A	1.25 A	25 A	12 A	12 A	6.3 A	2.5 A	1.25 A
	Breaker type	S202 C25	S202 C13	S202 C3	S202 C1,6	S202 C25	S202 C13	S202 C13	S202 C8	S202 C3	S202 C1,6
400	Transformer	2CSM289703R0801		2CSM207193R0801		2CSM260103R0801		2CSM204613R0801		2CSM201073R0801	
	Fuse gauge ①	32 A	16 A	3.15 A	1.6 A	32 A	16 A	16 A	8 A	3.15 A	1.6 A
	Breaker type	S202 C32	S202 C16	S202 C4	S202 C2	S202 C32	S202 C16	S202 C16	S202 C8	S202 C4	S202 C2
630	Transformer	2CSM236813R0801		2CSM207183R0801		2CSM260053R0801		2CSM204603R0801		2CSM204423R0801	
	Fuse gauge ①	50 A	25 A	5 A	2.5 A	50 A	25 A	25 A	12 A	5 A	2.5 A
	Breaker type	S202 C50	S202 C25	S202 C6	S202 C3	S202 C50	S202 C25	S202 C25	S202 C13	S202 C6	S202 C3
1000	Transformer	2CSM292873R0801		2CSM236913R0801		2CSM260093R0801				2CSM204413R0801	
	Fuse gauge ①	80 A	40 A	8 A	4 A	80 A	40 A			8 A	4 A
	Breaker type	S292 C80	S202 C40	S202 C8	S202 C4	S292 C80	S202 C40			S202 C8	S202 C4
1600	Transformer	2CSM292863R0801		2CSM201813R0801		2CSM260083R0801				2CSM204403R0801	
	Fuse gauge ①	125 A	63 A	16 A	8 A	125 A	63 A			16 A	8 A
	Breaker type	S292 C125	S202 C63	S202 C16	S202 C8	S292 C125	S202 C63			S202 C16	S202 C8
2000	Transformer	2CSM292853R0801		2CSM236903R0801		2CSM260073R0801				2CSM204383R0801	
	Fuse gauge ①	160 A	80 A	16 A	8 A	160 A	80 A			16 A	8 A
	Breaker type	-	S292 C80	S202 C20	S202 C10	-	S292 C80			S202 C20	S202 C10
2500	Transformer	2CSM236943R0801		2CSM207173R0801		2CSM204663R0801				2CSM204363R0801	
	Fuse gauge ①	200 A	100 A	20 A	10 A	200 A	100 A			20 A	10 A
	Breaker type	-	S292 C100	S202 C25	S202 C13	-	S292 C100			S202 C25	S202 C13

① FUSES
- Gauge ≤ 6.3 A use aM fuses with high breaking capacity and IEC601264-compliant
- Gauge > 6.3 A use gG fuses IEC60269-2 or IEC60269-3-compliant

② TM-S 50/24-48 P complies with IEC EN 61558-2-4 on the secondary circuit at 48 V and with IEC EN 61558-2-6 on the secondary circuit at 24 V

Command and signaling

TM-C, TM-S, TM-I control, isolating and safety transformers



TM

Technical characteristics				
		TM-C	**TM-S**	**TM-I**
Rated primary voltage Un	[V]	230/400 a.c.	230/400 a.c.	230/400 a.c.
Primary voltage adjustment outlets ±15 V		No	Yes	Yes
Max ambient temperature ③	[°C]	40	40	40
Rated secondary voltage Un	[V]	12-24, 115-230 a.c.	12-24, 24-48 a.c. b	115-230 a.c.
Rated frequency	[Hz]	50/60	50/60	50/60
Isolation voltage between primary and secondary	[kV]	3.5	4.8	4.8
Class of insulation system		class F	class F	class F
Rated powers	[VA]	50-2500	50-2500	50-2500
Primary cable section (Ø max)	[mm²]	6	6	6
Operating temperature	[°C]	①	①	①
Protection degree		IP00	IP00	IP00
Approvals		ENEC (Up to 1000 VA), UR, CSA, RINA	ENEC (Up to 1000 VA), UR, CSA	ENEC (Up to 1000 VA), UR, CSA
Standards		CEI EN 61558-2-2	CEI EN 61558-2-2 CEI EN 61558-2-6	CEI EN 61558-2-2 CEI EN 61558-2-6

① See technical details
② TM-S 50/24-48 P complies to CEI EN 61558-2-4 on the 48 V secondary and to CEI EN 61558-2-6 on the 24 V secondary
③ Maximum temperature without any power draw. See technical details for power draw according to temperature.

Command and signaling

TM-C, TM-S, TM-I control, isolating and safety transformers



TM-I



TM-S



TM-C



TM-C

TM-C control transformer
Transformer for supplying control circuits, for example commands, signaling, interlocks, etc.
Reference standard: CEI EN 61558-2-2.

TM-S safety transformer
Isolation transformer for supplying safety extra low voltage circuits (<50 V on no load). Accidental contact with the secondary winding phases can be withstood without any danger. Reference standard: CEI EN 61558-2-6

TM-I isolating transformer
Transformer in which the primary and secondary windings are electrically separated by a double or reinforced insulation, to protect the circuit supplied by the secondary against hazards due to accidental simultaneous contact with earth and live parts, or grounded parts that may become live in the event of an insulation fault.
Reference standard: CEI EN 61558-2-4

Since TM-C, TM-S and TM-I transformers are not provided with built-in protection, they must therefore be protected according with these rules:
- Primary: line protection must reach or exceed the recommended value in Chapter 6 of Electrical installation solutions for buildings - Technical details. This device guarantees line protection and service continuity but doesn't protect the transformer.
- Secondary: transformer protection must be chosen according to tables in the previous pages. This device protect the transformer.

TM-C single phase control transformers, primary 230-400 V

Rated power	Secondary voltage	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
VA	V a.c.	EAN	Type code	Order code		kg	pc.
50	12-24	071136	TM-C 50/12-24	2CSM207113R0801		1.1	1
100	12-24	071037	TM-C 100/12-24	2CSM207103R0801		2	1
160	12-24	368533	TM-C 160/12-24	2CSM236853R0801		3	1
200	12-24	368236	TM-C 200/12-24	2CSM236823R0801		3.2	1
250	12-24	070931	TM-C 250/12-24	2CSM207093R0801		3.6	1
320	12-24	368434	TM-C 320/12-24	2CSM236843R0801		4.4	1
400	12-24	897033	TM-C 400/12-24	2CSM289703R0801		5.5	1
630	12-24	368137	TM-C 630/12-24	2CSM236813R0801		7.8	1
1000	12-24	928737	TM-C 1000/12-24	2CSM292873R0801		13.2	1
1600	12-24	928638	TM-C 1600/12-24	2CSM292863R0801		21.2	1
2000	12-24	928539	TM-C 2000/12-24	2CSM292853R0801		25.5	1
2500	12-24	369431	TM-C 2500/12-24	2CSM236943R0801		26.8	1
50	115-230	072133	TM-C 50/115-230	2CSM207213R0801		1.1	1
100	115-230	369332	TM-C 100/115-230	2CSM236933R0801		2	1
160	115-230	072034	TM-C 160/115-230	2CSM207203R0801		3	1
200	115-230	368830	TM-C 200/115-230	2CSM236883R0801		3.2	1
250	115-230	071532	TM-C 250/115-230	2CSM207153R0801		3.6	1
320	115-230	369233	TM-C 320/115-230	2CSM236923R0801		4.4	1
400	115-230	071938	TM-C 400/115-230	2CSM207193R0801		5.5	1
630	115-230	071839	TM-C 630/115-230	2CSM207183R0801		7.8	1
1000	115-230	369134	TM-C 1000/115-230	2CSM236913R0801		13.2	1
1600	115-230	018131	TM-C 1600/115-230	2CSM201813R0801		21.2	1
2000	115-230	369035	TM-C 2000/115-230	2CSM236903R0801		25.5	1
2500	115-230	071730	TM-C 2500/115-230	2CSM207173R0801		26.8	1

Command and signaling

TM-C, TM-S, TM-I control, isolating and safety transformers

TM-S single phase control and safety transformers, primary 230-400 V ±15

Rated power	Secondary voltage	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
VA	V a.c.	EAN	Type code	Order code		kg	pc.
50	12-24	368939	TM-S 50/12-24 P	2CSM236893R0801		1.1	1
100	12-24	071631	TM-S 100/12-24 P	2CSM207163R0801		2	1
160	12-24	020738	TM-S 160/12-24 P	2CSM202073R0801		3	1
200	12-24	600435	TM-S 200/12-24 P	2CSM260043R0801		3.2	1
250	12-24	601135	TM-S 250/12-24 P	2CSM260113R0801		3.6	1
320	12-24	600633	TM-S 320/12-24 P	2CSM260063R0801		4.4	1
400	12-24	601036	TM-S 400/12-24 P	2CSM260103R0801		5.5	1
630	12-24	600534	TM-S 630/12-24 P	2CSM260053R0801		7.8	1
1000	12-24	600930	TM-S 1000/12-24 P	2CSM260093R0801		13.2	1
1600	12-24	600831	TM-S 1600/12-24 P	2CSM260083R0801		21.2	1
2000	12-24	600732	TM-S 2000/12-24 P	2CSM260073R0801		25.5	1
2500	12-24	046639	TM-S 2500/12-24 P	2CSM204663R0801		26.8	1
50	24-48	046530	TM-S 50/24-48 P	2CSM204653R0801		1.1	1
100	24-48	046431	TM-S 100/24-48 P	2CSM204643R0801		2	1
160	24-48	046332	TM-S 160/24-48 P	2CSM204633R0801		3	1
250	24-48	046837	TM-S 250/24-48 P	2CSM204683R0801		3.2	1
320	24-48	046738	TM-S 320/24-48 P	2CSM204673R0801		3.6	1
400	24-48	046134	TM-S 400/24-48 P	2CSM204613R0801		4.4	1
630	24-48	046035	TM-S 630/24-48 P	2CSM204603R0801		5.5	1

TM-I single phase control and isolating transformers, primary 230-400 V ±15

Rated power	Secondary voltage	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
VA	V a.c.	EAN	Type code	Order code		kg	pc.
50	115-230	045830	TM-I 50/115-230 P	2CSM204583R0801		1.1	1
100	115-230	011231	TM-I 100/115-230 P	2CSM201123R0801		2	1
160	115-230	045335	TM-I 160/115-230 P	2CSM204533R0801		3	1
200	115-230	045137	TM-I 200/115-230 P	2CSM204513R0801		3.2	1
250	115-230	045038	TM-I 250/115-230 P	2CSM204503R0801		3.6	1
320	115-230	044932	TM-I 320/115-230 P	2CSM204493R0801		4.4	1
400	115-230	010739	TM-I 400/115-230 P	2CSM201073R0801		5.5	1
630	115-230	044239	TM-I 630/115-230 P	2CSM204423R0801		7.8	1
1000	115-230	044130	TM-I 1000/115-230 P	2CSM204413R0801		13.2	1
1600	115-230	044031	TM-I 1600/115-230 P	2CSM204403R0801		21.2	1
2000	115-230	043836	TM-I 2000/115-230 P	2CSM204383R0801		25.5	1
2500	115-230	043638	TM-I 2500/115-230 P	2CSM204363R0801		26.8	1

Accessories

	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Mounting bracket for DIN rail (up to 160 VA)	010333	TM-C-DIN	2CSM201033R0801		0.10	10

Command and signaling

TS-C safety isolating transformers for general use



TS 25 C



TS 100 C

TS-C							
		TS 10 C	**TS 16 C**	**TS 25 C**	**TS 40 C**	**TS 63 C**	**TS 100 C**
Primary rated voltage Un	[V]	230 a.c.	230 a.c.	230 a.c.	230 a.c.	230 a.c.	230 a.c.
Secondary rated voltage Un	[V]	12 - 24 V a.c.	12 - 24 V a.c.	12 - 24 V a.c.	12 - 24 V a.c.	12 - 24 V a.c.	12 - 24 V a.c.
Tolerance on secondary voltage (full load)	[%]	< +/- 5% (according to standards)					
Tolerance on secondary voltage (off load)	[%]	<100% rated secondary voltage (according to standards)					
Rated frequency	[Hz]	50/60	50/60	50/60	50/60	50/60	50/60
Rated power (continuous use)	[VA]	10	16	25	40	63	100
Maximum output current (at 24 V)	[A]	0.42	0.67	1.04	1.67	2.63	4.17
Power loss (off load)	[W]	< 2.5	< 3	< 4	< 4.5	< 4.5	< 1
Power loss (full load)	[W]	< 5	< 5	< 5	< 10	< 15	< 20
Class of insulation system		Class B (corresponding to maximum 120 °C)					
Modules	[No.]	2	3	4	4	5	6
Cable section	[mm^2-AWG]	2.5					
Tightening torque	[Nm]	0.5					
Protection degree		IP 20					
Standards		IEC/EN 61558-2-6					
Approvals							

TS-C safety isolating transformers for general use

These transformers are non-inherently short-circuit proof. In fact they are equipped with a thermal protective device which automatically restores the power when the transformer is sufficiently cooled down. So even during an overload or a short-circuit they maintain their temperature below the specified limits and they continue functioning after the fault's removal.

They are ideal for supplying permanent power to meters, auxiliary electronic devices (e.g. measu-rement, video-entry phone systems, BUS communication) and circuits with safety extremely-low voltage (SELV) for bathrooms and showers, lighting, fountains, electro-medical devices and suchlike. These devices take up very little space, from 2-module size for the 10 VA version up to 6-module size for the 100 VA version.

Rated power (continuous)	**Secondary rated voltage**	**Bbn 8012542**	**Order details**		**Price 1 piece**	**Weight 1 piece**	**Pack unit**
VA	**V**	**EAN**	**Type code**	**Order code**		**kg**	**pc.**
10	12-24	285557	TS 10/12-24 C	2CSM228555R0812		0.35	1
16	12-24	285656	TS 16/12-24 C	2CSM228565R0812		0.45	1
25	12-24	928508	TS 25/12-24 C	2CSM251043R0811		0.92	1
40	12-24	928607	TS 40/12-24 C	2CSM401043R0811		1.1	1
63	12-24	928706	TS 63/12-24 C	2CSM631043R0811		1.15	1
100	12-24	285755	TS 100/12-24 C	2CSM228575R0812		1.45	1

Command and signaling

TM bell transformers



TM 15/12



TM 40/12

Technical characteristics		
Primary rated voltage Un	[V]	230 a.c.
Secondary rated voltage Un	[V]	4, 8, 12, 24
Tolerance on secondary voltage (with load)	[%]	+/- 15% (according to standards)
Rated frequency	[Hz]	50/60
Rated power (discontinuous use)	[VA]	10, 15, 30, 40
Power loss (off load)	[W]	<2.5 (TM10, TM15), <3 (TM30, TM40), <1.25 (TM15 ES)
Modules	[No.]	2 (TM10, TM15), 3 (TM30, TM40)
Cable section	[mm²-AWG]	2.5 - 14
Tightening torque	[Nm]	0.5
Protection degree		IP 20
Standards		IEC/EN 61558-2-8
Approvals		

TM fail safe bell transformers

These transformers, with safety extremely-low voltage secondary (SELV), are suitable for loads that require a discontinuous supply, and in particular doorbells and chimes. Fail safe operation and excellent safety are assured thanks to the perfect isolation and separation between the primary and secondary circuits. In addition, the Energy Saving TM-ES version allows reducing power losses by 50%.

Maximum rated power a (disccontinuous)	Secondary voltage rating	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
VA	V c.a.	EAN	Type code	Order code		kg	pc.
10	4-8-12	287155	TM10/12	2CSM228715R0802		0.30	6
10	12-24	287254	TM10/24	2CSM228725R0802		0.30	6
15	4-8-12	287353	TM15/12	2CSM228735R0802		0.30	6
15	12-24	287452	TM15/24	2CSM228745R0802		0.30	6
15	4-8-12	285854	TM15/12 ES	2CSM228585R0802		0.30	1
30	4-8-12	287551	TM30/12	2CSM228755R0802		0.45	4
30	12-24	287650	TM30/24	2CSM228765R0802		0.45	4
40	4-8-12	287759	TM40/12	2CSM228775R0802		0.45	4
40	12-24	287858	TM40/24	2CSM228785R0802		0.45	4

① See diagrams below for the RMS power on each secondary output

Command and signaling

TS bell transformers



TS 8/8



TS 8/12 SW



TS 24/8-12-24

Technical characteristics		
Primary rated voltage Un	[V]	230 a.c.
Secondary rated voltage Un	[V]	4, 6, 8, 12, 24
Tolerance on secondary voltage (with load)	[%]	± 15% (according to standards)
Rated frequency	[Hz]	50/60
Rated power (discontinuous use)	[VA]	8, 16, 24
Power loss (off load)	[W]	<2.5 (TS8, TS16), <3 (TS24), <0.8 (TS8/8 ES), <1.2 (TS16/8-12 ES)
Class of insulation system		class B
Modules	[No.]	2 (TS8, TS16), 3 (TS24)
Cable section	[mm²-AWG]	2.5 - 14
Tightening torque	[Nm]	0.5
Protection degree		IP 20
Standards		IEC/EN 61558-2-8
Approvals		

TS non-inherently short-circuit proof bell transformers

These transformers, with safety extremely-low voltage secondary (SELV), are suitable for driving loads that call for a discontinuous supply, and in particular doorbells and chimes.
In addition to perfect isolation and separation between the primary and secondary circuits, the TS transformers have a thermal protection device integrated into the secondary that makes them resistant to short circuit currents (non-inherently short-circuit proof).
The TS range is extended with the Energy Saving TS-ES series, which allows reducing power losses by 50%, and the TS8/SW series, that is equipped with a switch for controlling loads connected to the secondary.

Maximum rated power a (disccont.) VA	Secondary voltage rating V c.a.	Switch 0-1	Bbn 8012542 EAN	Order details Type code	Order details Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
8	8		285953	TS8/8 ES	2CSM228595R0812		0.35	1
8	8		286653	TS8/8	2CSM228665R0812		0.35	6
8	12		286851	TS8/12	2CSM228685R0812		0.35	6
8	24		286752	TS8/24	2CSM228675R0812		0.35	6
8	8	■	368304	TS8/8 SW	2CSM081302R0811		0.35	6
8	12	■	368403	TS8/12 SW	2CSM081402R0811		0.35	6
8	4-6-8	■	368601	TS8/4-6-8 SW	2CSM081012R0811		0.35	6
8	4-8-12	■	368700	TS8/4-8-12 SW	2CSM081022R0811		0.35	6
16	8-12		286059	TS16/8-12 ES	2CSM228605R0812		0.35	1
16	8		286455	TS16/8	2CSM228645R0812		0.35	6
16	12		286356	TS16/12	2CSM228635R0812		0.35	6
16	24		286158	TS16/24	2CSM228615R0812		0.35	6
16	4-6-8		286554	TS16/4-6-8	2CSM228655R0812		0.35	6
16	4-8-12		286257	TS16/4-8-12	2CSM228625R0812		0.35	6
24	4-8-12		287056	TS24/4-8-12	2CSM228705R0812		0.45	4
24	8-12-24		286950	TS24/8-12-24	2CSM228695R0812		0.45	4

① See diagrams below for the rms power on each secondary output

Command and signaling

RI, BR, TSM, TSR bells and buzzers



TSM



RI230

Technical characteristics				
		RI12, BR12	RI230, BR230	TSM, TSR
Rated Voltage U_n	[V c.a.]	12	230	230
Rated frequency	[Hz]	50/60	50/60	50
Power consumption	[VA]	4	6	5,5
Sound level	Bell [dB]	80(1)	80(1)	80(2)
	Buzzer [dB]	70(1)	70(1)	70(2)
	Three-tones [dB]			84(2)
Max permanent working time	max 15 sec., after a rest time last 60 sec.			TSM: 1 min TSR: 5 min
Type of sound signal		D	D	
Duration of operation		discontinuous	discontinuous	discontinuous
Max cable cross-section	[mm²]	4	4	10
Mounting position		flexible	flexible	vertical only
Protection degree		IP20	IP20	IP20-IP40
Modules (18 mm)	[No.]	1	1	2
Standard		EN 62080	EN 62080	EN 62080

(1) at 0.6 meter distance
(2) at 1 meter distance

Bells and buzzers

The range of bell and buzzer includes modular versions as 12V or 230V types for acoustic signaling in residential and commercial sectors as well as industry application such as alarms notification, supervision and intensive use (schools, factories etc...). TSM and TSR versions also include a transformer: the input is 230V a.c. and the bell is supplied in 12 or 24 V.

RI electro-mechanical modular bells

Rated voltage	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
V AC	EAN	Type code	Order code		kg	pc.
12	258810	RI12	2CSM232345R0821		0.081	10
230	258919	RI230	2CSM232335R0821		0.083	10

BR electro-mechanical modular buzzers

Rated voltage	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
V AC	EAN	Type code	Order code		kg	pc.
12	273813	BR12	2CSM232365R0821		0.075	10
230	258711	BR230	2CSM232355R0821		0.077	10

Command and signaling

SM, RM, TSM, TSR bells and buzzers



TSR

TSM modular electronic bell (two-tones) + transformer included

Rated voltage	Use	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
V AC		EAN	Type code	Order code		kg	pc.
230	Discontinuous	007005	TSM	2CSM100000R0841		0.300	6

TSR bell + buzzer + transformer included

Rated voltage	Use	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
V AC		EAN	Type code	Order code		kg	pc.
230	Discontinuous	369608	TSR	2CSM100000R0831		0.300	1

Command and signaling

CP-D primary switch mode power supplies



CP-D 12/0.83,
CP-D 24/0.42



CP-D 12/2.1
CP-D 24/1.3



CP-D 24/2.5



CP-D 24/4.2

Description

The CP-D range of modular power supply units in MDRC design (modular DIN rail components) is ideally suited for installation in distribution panels. This range offers devices with output voltages of 12 V DC and 24 V DC at output currents of 0.42 A to 4.2 A. Thanks to their high thermal efficiency, these power supplies have very low power and heat dissipation and can be operated without forced cooling. All power supply units in the CP-D range are approved according to all relevant international standards.

Technical characteristics

- Output voltages: 12 V, 24 V DC
- Adjustable output voltages (devices > 10 W)
- Output currents: 0.42 A / 0.83 A / 1.3 A / 2.1 A / 2.5 A / 4.2 A
- Power range: 10 W, 25 W, 30 W, 60 W, 100 W
- Wide range input: 100-240 V AC (90-264 V AC, 120-375 V DC)
- High efficiency of up to 89 %
- Low power dissipation and low heating
- Free convection cooling (no forced cooling with ventilators)
- Ambient temperature range during operation: -40...+70 °C
- Open-circuit, overload and short-circuit stable
- Integrated input fuse
- LEDs for status indication
- Light-grey housing in RAL 7035
- Various approvals and marks

Rated input voltage	Rated output voltage/current	Bbn	Order details		Price 1 piece	Weight 1 piece	Pack unit
V	V / A	EAN	Type code	Order code		kg (lb.)	pc.
100-240 V AC	12 V DC / 0.83 A		CP-D 12/0.83	1SVR427041R1000		0.06/0.13	1
100-240 V AC	12 V DC / 2.1 A		CP-D 12/2.1	1SVR427043R1200		0.19/0.41	1
100-240 V AC	24 V DC / 0.42 A		CP-D 24/0.42	1SVR427041R0000		0.06/0.13	1
100-240 V AC	24 V DC / 1.3 A		CP-D 24/1.3	1SVR427043R0100		0.19/0.41	1
100-240 V AC	24 V DC / 2.5 A		CP-D 24/2.5	1SVR427044R0200		0.25/0.56	1
100-240 V AC	24 V DC / 4.2 A		CP-D 24/4.2	1SVR427045R0400		0.32/0.71	1

CP-D RU for decoupling of two CP-D power suply units

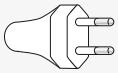
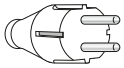
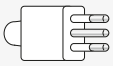
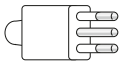
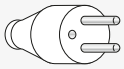
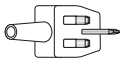
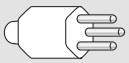
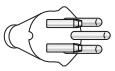
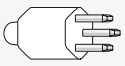
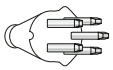
Input voltage range	Rated input current	Rated output voltage/ current	Bbn	Order details		Price 1 piece	Weight 1 piece	Pack unit
V	A	V / A	EAN	Type code	Order code		kg (lb.)	pc.
9-35 V DC	2 x 5 A	24 V DC / 1 x 10 A		CP-D RU	1SVR427049R0000		0.075 / 0.165	1

Command and signaling

Modular sockets selection table

Series selection

For further information about sockets selection by country please see in Chapter 6 of Electrical installation solutions for buildings - Technical details

		M1175	M1173	M1170	M1174	M1363	M1011
	EU 10A	■	■	■	■		■
	Schuko 10 A / 16 A	■	■	■			
	Italian 10 A		■	■			
	Italian 16 A			■			
	French 10 A / 16 A	Pluggable but not earthed	Pluggable but not earthed	Pluggable but not earthed	■		
	British 13 A					■	
	Swiss						■
							■
							■
							■

Command and signaling

Modular sockets selection table

Model selection

				RAL 7035
German Schuko Strandard				
	M1175			2CSM210000R0721
	M1175-L	 Indicator light		2CSM212000R0721
	M1175-FL	 Indicator light	 Fuse 6.3 A aM	2CSM214000R0721
	M1175-C	 Cover IP30		2CSM211000R0721
Italian P30 standard				
	M1173			2CSM110000R0701
	M1173-L	 Indicator light		2CSM112000R0701
Italian dual standard				
	M1170			2CSM210000R0701
French Standard				
	M1174	2CSM110000R0711		2CSM110000R0711

Command and signaling

Modular sockets selection table

			RAL 7035
British Standard			
	M1363	2CSM259343R0721	2CSM259343R0721
	M1363-L	 Indicator light	2CSM258163R0721
Swiss standard SEV 2011			
	M1011-T13	Single-phase 10 A Type 13	2CSM220685R0721
	M1011-T23	Single-phase 16 A Type 23	2CSM220695R0721
	M1011-T15	Three-phase 10 A Type 15	2CSM220705R0721
	M1011-T25	Three-phase 16 A Type 25	2CSM220715R0721

Command and signaling
Modular sockets



Modular sockets

Technical specifications

Rated voltage Un		[V]	250 a.c.				
Rated current In		[A]	16 (M1170, M1173, M1174, M1175), 13 (M1363),				
Rated frequency		[Hz]	50/60				
Power loss		[W]	0,6				
Modules		[No.]	2.5 for M117x 3 for M1011, M1363				
Safety shutters			yes, on entire range				
Cable section (ø min./max.)		[mm²]	2.5 / 16				
Tightening torque		[Nm]	1.2				
Temperature	storage	[°C]	-40 … +70				
	operating	[°C]	-25 … +35				
Protection degree			IP20 / IP30 versions with cover, when cover is closed				
			M1011	M1175	M1173	M1170	M1174	M1363
Reference standards			SEV 1011	DIN VDE 0620-1	CEI 23-50		NF C 61 314	BS1363
Approvals			SEV	VDE, EAC	IMQ, EAC	EAC	LCIE, CEBEC, EAC	BSI

Indicator light technical specifications

Type		fluorescent torpedo-shaped lamp
Function		Indication of power supply presence (M1363, M1173, M1175)
Light colour		green
Power consumption	[W]	0.25

Fuse technical specifications

Type		5 x 20 mm up to 6.3 A aM
Function		phase protection
Breaking capacity	[A]	1500
Reference standard		IEC EN 60127

Command and signaling

Modular sockets



M1175



M1175-C



M1175-C



M1175-FL



M1173

Modular sockets

Modular sockets allow the connection of devices, tools or electrical and electronic non modular equipments in civil and industrial electrical switchboards.
The range is composed by standard versions as well as upgraded versions with additional features as light indicator, protection fuse and cover.

German Shuko standard modular sockets

Color	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
grey	027850	M1175	2CSM210000R0721		0,120	4
grey with cover	029052	M1175-C	2CSM211000R0721		0,140	4

German Shuko standard modular sockets with integrated indicator light and fuse

Color	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
grey with light	028253	M1175-L	2CSM212000R0721		0,140	4
grey with light and fuse	028659	M1175-FL	2CSM214000R0721		0,160	4

Italian P30 standard modular sockets

Color	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
grey	004103	M1173	2CSM110000R0701		0,120	4

Italian P30 standard modular sockets with integrated indicator light

Color	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
grey with light	027058	M1173-L	2CSM112000R0701		0,140	4

Command and signaling

Modular sockets



M1170



M1174



M1363

Italian dual standard modular sockets

Color	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
grey	027454	M1170	2CSM210000R0701		0,120	4

French standard modular sockets

Color	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
grey	006602	M1174	2CSM110000R0711		0,140	4

British standard modular sockets.

Color	Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
grey	593430	M1363	2CSM259343R0721		0,140	4
grey with light	581635	M1363-L	2CSM258163R0721		0,140	4

Command and signaling

Modular sockets



M1011-T13



M1011-T23



M1011-T15



M1011-T25

Swiss standard modular sockets
The M1011 series, with SEV certification, allows to plug four types of swiss standard plugs, single- and three-phase e with currents up to 10 A or 16 A.
They can be mounted on DIN rail or Smissline rails without supply connection.

Color		Bbn 8012542	Order details		Price 1 piece	Weight 1 piece	Pack unit
		EAN	Type code	Order code		kg	pc.
grey	Single-phase 10 A	206873	M1011-T13	2CSM220685R0721		0.140	2
grey	Single-phase 16 A	206972	M1011-T23	2CSM220695R0721		0.140	2
grey	Three-phase 10 A	207078	M1011-T15	2CSM220705R0721		0.170	2
grey	Three-phase 16 A	207177	M1011-T25	2CSM220715R0721		0.170	2

Command and signaling

MA1-8001 DIN rail adapter



MA1-8001



MA1-8121

MA1-8001 DIN rail adapter

Through an appropriate kit, this product born with the Modular Range of Pilot devices is the perfect case for alongside Ø 22 mm pilot devices with “System pro M compact” products.
The Ø 22 mm pilot devices can now find a greater use even within distribution or automation switchboards with modular panels maintaining an high aesthetic level.
The MA1-8001 offers a lot of advantages:

- Fast and easy mounting
- Simple wiring
- Simple maintenance
- Less depth of operators
- Perfect harmony alongside the “System pro M compact” products

Using MA1-8001 it’s possible to put together “System pro M compact” products with LED pilot light, potentiometer, key selectors, toggle switches, selector switches, push- buttons, mushroom buttons and emergency stop, illuminated or not.
For detailed description of the industrial devices that can be installed using this kit, see technical catalogue 1SFC151003C0201

Color	Bbn 7320500	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
DIN rail adapter KIT (2 modules) ① ②	357880	MA1-8001	1SFA611920R8001		0.023	1
DIN rail adapter (2 modules) ①	357702	MA1-8131	1SFA611920R8131		0.020	10

① Can be used only with Modular range pilot devices units; it cannot be used with the old CBK range or Compact range products.
② KIT includes one Din rail adapter, one empty block and 2 pins

Technical notes

- To assemble the new housing with push-buttons, selector switch and indicator lamps, contact blocks and lamp blocks for DIN rails must be used.
- The MCBH-00 holder is not necessary, because the housing hooks directly to contact blocks.
- To line up with “System pro M compact” products, a maximum of 3 blocks must be used.
- In the configuration with 3 contacts, it is advisable to use securing pins to make the blocks more solid.
- In making up actuators or indicator lamps that use a single contact, one or two MDB-2 empty blocks must be used.

Notes

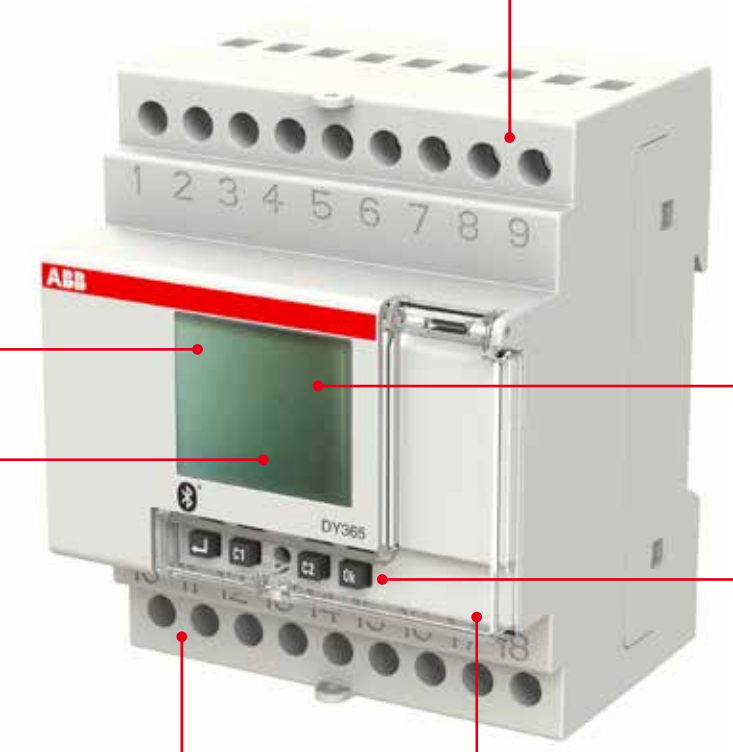
Electrical installation solutions for buildings
Control and automation

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DBT Timer digital time switches

An ideal range for automating the functions of the installation



Communication bus for the connection of DY365 2CE and DY365 4CE channel extensions along with DY GPS and DY DCF77 antennas

Clear display of each contact status

Wide range of programs: standard, impulse, cycle, random and holiday

High contrast LCD monitor for excellent visibility in all conditions due to timed back-lighting

Permanent or temporary manual deviation, directly activated with a single touch

Terminals for wires 2.5 mm²

Sealable glass and keypad lock to prevent tampering by unauthorised personnel



Wide range of programs: standard, impulse, cycle, random and holiday

- Permanent or temporary manual deviation, directly activated with a single touch
- LCD Display with back-lighting
- Up to 900 storable events
- Up to 400 pre-defined cities coordinates
- Accuracy of ±0.5 seconds/24h
- Switching solar time/daylight saving time



Time synchronization via DY DCF77 or DY GPS antennas. The DY DCF77 antenna receives scheduled messages transmitted by the atomic clock installed c/o Mainflingen (Germany), near Frankfort. Thanks to this signal, the time switches are automatically setted to: hour, date and proper daylight saving time. The DY GPS antenna receives time from the Global Positioning System, providing an accurate location and time information for an unlimited number of people in all weathers, day or night, anywhere in the world; time is derived from different sources simultaneously that allow the time switch to compensate for propagation delays.



All functions and programs can be set on the device, and for the first time the device can also be programmed via app. This not only facilitates commissioning, but also ensures maximum flexibility.

The programming of time switching sequences is possible directly on the device or via app.
The new app is compatible with iOS (from version 11) and Android (from version 5.0).

In addition to operation directly on the device, the timers can be set up, configured and managed with the smartphone.



Bluetooth communication combined with the DBT Timer APP available for Android and iOS ensure smart configuration and quick visualization. This functionality also allows to transfer programs from one device to another simply using the Smartphone.

Control and automation

DBT Timer digital time switches



DBT Timer

Technical features DBT Timer							
		DY365	**DW1**	**DW2**	**DWA1**	**DWA2**	**DWTL1**
Power supply	[V]	230 AC (-15 % ..+10 %)					
Rated pulsating voltage	[kV]	4					
Contact type		2CO	1CO	2CO	1CO	2CO	1CO
Channel extension		■					
DY DCF77 antenna		■					
DY GPS antenna		■					
DWS external brightness sensor							■
Resistive load	[A]	16					
Inductive load	[A]	10					
Rated frequency	[Hz]	50/60					
Minimum switching		1 min (1 s pulse program)					
Max number of events		900	120	120	120	120	120
Number of channel		2	1	2	1	2	1
Operating accuracy	[sec/ 24h]	± 0,5					
Power consumption	[W]	2.6	2	2	2	2	2
Max. switching power	[VA]	4000					
Switching capacity							
Incandescent	[W]	2000					
Fluorescent	[VA]	600					
Low voltage halogen	[W]	2000					
Halogen	[W]	2000					
Low consumption lamp	[VA]	600					
LED	[W]	500					
Protection degree	[IP]	20					
Max terminal cross-section	[mm²]	2.5					
Tightening torque	[Nm]	0.5					
Installation type		DIN rail					
Operating temperature	[°C]	-20...+50					
Storage temperature	[°C]	-25...+70					
Modules	[n°]	4	2	2	2	2	2
Reference standards		EN 60730-1; EN 60730-2-7; ETSI EN 301 489-1; ETSI EN 301 489-17; ETSI EN 300 328					

Control and automation

DBT Timer digital time switches

Technical features Accessories for Digital yearly time switch - DY365			
		DY DCF77	**DY GPS**
Rated voltage	[V]	12 DC	12 DC
Antenna sensitivity	[mV/m]	0.05	
Operating temperature	[°C]	0...+50	0...+50
Storage temperature	[°C]	-10...+60	-10...+70
Power consumption	[W]		0.5
Time of the signal		5 sending/min	every 30 min
Protection degree	[IP]	54	54
Max. number of connected devices	[No.]	31	31
Max. wiring length	[m]	100	100
Terminal size for cable	[mm²]	1.5	0.75..1.5
Mounting		wall	wall

Technical features Accessories for Digital yearly time switch - DY365		
	DY365 2CE	**DY365 4CE**
Rated voltage	12/24 V AC/DC	12/24 V AC/DC
Numbers of normaly open relays 8A/250V	2	4
Operating temperature	0 - 50°C	0 - 50°C
Storage temperature	-25 - 70°C	-25 - 70°C
Protection degree	IP20	IP20
Mounting	Din rail	Din rail
Modules	2	4

Technical features Accessories for Digital weekly twilight time switch - DWTL1	
	DWS
Threshold	3 ÷ 500 lux
Hysteresis	1 ÷ 50 lux
Max. wiring lenght	50 m
Protection degree	IP65
Operating temperature	-20°C...+50°C
Delay	1 second ÷ 30 minutes

Selection table

Digital time switches	DY365	DWA1	DWA1	DW1	DW2	DWTL1
Weekly		■	■	■	■	■
Yearly	■					
Standard function	■	■	■	■	■	■
Astro function	■	■	■			■
Twilight sensor						■
Numbers of channels	2	1	2	1	2	1
DY GPS/DY DCF77	■					
Bluetooth	■	■	■	■	■	■
2 or 4 channel extension	■					

Standard function includes: standard, impulse, random cycle and holiday programs.

Control and automation

DBT Timer digital time switches



DY365



DW1



DWA1



DWTL1

DBT Timer digital time switches
The unique design, with white backlight LCD display, and extreme ease of use with only four buttons, make DBT Timer ideal to automate the installation functions. The possibility to configure all digital devices via DBT Timer APP and Bluetooth connection makes the configuration and installation time even shorter. DBT Timer digital time switches are equipped with large capacity internal battery to maintain operation without power supply in order to avoid the risk of program loss and to maintain the time settings in case of power failure, respective of its duration. DBT Timer digital time switches are equipped with various functions such as the impulse, cycle, random and holiday function.

Digital yearly time switch - DY365
DY365 is the digital yearly time switch with 2 channels from DBT Timer range. Thanks to the two extension channel units DY365 4CE and DY365 2CE, DY365 is able to control up to 8 channels. DY365 can be coupled with DY GPS antenna to allow synchronization received from the Global Positioning System or with DY DCF77 antenna that allows an automatic synchronization of the digital time switch with the Frankfurt DCF77 time signal.

Digital weekly time switch - DW
DW1 and DW2 are weekly digital time switches with 1 and 2 channels, respectively. They allow exclusion of the normal weekly program in every week with the same mode.

Digital weekly astronomical time switch - DWA
The astronomical switches DWA1 and DWA2, respectively, with 1 and 2 channels, automatically control lighting circuits depending on the time of sunrise and sunset, greatly increasing energy efficiency. The programming is in fact based on a mathematical algorithm able to calculate the time of the rising and setting of the sun in a certain location for each day of the year. Once powered the device, simply insert date, time, geographical coordinates and time zone so that it is ready to work. These settings can also be automatically defined using the DBT Timer APP. The installation of astronomical digital time switches is particularly useful when using a twilight switch with external sensor is not recommended because it may be subject to malfunctions caused by air pollution, excessive brightness or vandalism. DWA1 and DWA2 are also indicated for the control of public lighting, shop windows of shops, neon signs, monuments, facades, illuminated fountains, ...

Digital weekly twilight time switch - DWTL1
DWTL1 is digital time switch with astronomical function and external luminosity probe DWS indicated for the management of the lighting system, luminous signs. Digital weekly twilight switch with 1 channel allows the exclusion of the weekly programming. DWTL1 can be configured as astronomical with probe switch which initial configuration requires the activation of the load from sunset to sunrise and during the daytime hours in case of low light. Also,it can be used as programmable twilight switch in which activation of the load occurs when the probe detects a low light condition in case that daily or weekly programming requires it.

Version	Bbn 8012542	Order details		Price 1	Weight 1 piece	Pack unit
	EAN	Type code	Order code	piece	kg	pc.
Yearly time switch, 2 channels	212010	DY365	2CSM221201R1000		0.250	1
Weekly time switch, 1 channel	225317	DW1	2CSM222531R1000		0.129	1
Weekly time switch, 2 channels	225218	DW2	2CSM222521R1000		0.152	1
Weekly astronomical time switch, 1 channel	225119	DWA1	2CSM222511R1000		0.129	1
Weekly astronomical time switch, 2 channels	225010	DWA2	2CSM222501R1000		0.152	1
Weekly twilight time switch, 1 channel	224914	DWTL1	2CSM222491R1000		0.160	1

Control and automation

DBT Timer digital time switches



DY DCF77



DY GPS



DY365 2CE



DY365 4CE



DWS

Accessories for DBT Timer digital time switches

The DY365 2CE and DY365 4CE are extension channel units with 2 and 4 outputs relays. They are respectively coupled to the DY365 in order to expand number of contacts managed from 2 to maximum 8.

DY DCF77 antenna, used in conjuction with the device, enables it to be automatically synchronized with the official DCF77 Frankfurt time signal, broadcast via long wave radio.

DY GPS antenna is available to ensure good coverage around the world in any weather condition. This antenna uses the synchronization from the Global Positioning System and provides more precise values than terrestrial transmissions.

DWS is external probe for light intensity which is coupled with digital weekly twilight switch, DWTL1.

Version	Bbn 8012542	Order details		Price 1	Weight 1 piece	Pack unit
	EAN	Type code	Order code	piece	kg	pc.
DCF77 antenna	504214	DY DCF77	2CSM250421R1000		0.100	1
GPS antenna	504115	DY GPS	2CSM250411R1000		0.080	1
2 channel extension	211914	DY365 2CE	2CSM221191R1000		0.185	1
4 channel extension	211815	DY365 4CE	2CSM221181R1000		0.486	1
DWS external sensor	224815	DWS	2CSM222481R1000		0.021	1

Control and automation

AG Timer electro-mechanical time switches



AD1NO-R-15m



AD1CO-15m

Technical features									
		AD1NO-15m	AD1NO-R-15m	AD1CO-30m	AD1CO-R-30m	AW1CO-R-210m	AD1CO-15m	AD1CO-R-15m	AW1CO-R-120m
Rated voltage	[V]	230 AC							
Contact type		1NO	1NO	1CO	1CO	1CO	1CO	1CO	1CO
Resistive load	[A]	16							
Inductive load	[A]	4							
Rated frequency	[Hz]	50/60							
Minimum switching interval	[min]	15	15	30	30	210	15	15	120
Number of switching interval		96	96	48	48	48	96	96	84
Running reserve	[h]	-	100	-	150	150	-	150	150
Power consumption	[W]	0.5							
Max. switching power	[VA]	4000							
Incandescent	[W]	2500	2500	3000	3000	3000	3000	3000	3000
Fluorescent	[VA]	1200	1200	1200	1200	1200	1200	1200	1200
Low voltage halogen	[VA]	2000	2000	2000	2000	2000	2000	2000	2000
Halogen (230 V ~)	[W]	2500	2500	3000	3000	3000	3000	3000	3000
Low consumption lamp (CFL)	[VA]	900							
LED	[VA]	100	100	200	200	200	200	200	200
Protection degree		IP20							
Max. terminal cross-section	[mm²]	4							
Tightening torque	[Nm]	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5
Terminals		with captive screws							
Installation type		DIN rail							
Operating temperature	[°C]	-10...+45	-10...+45	-10...+50	-10...+50	-10...+50	-10...+50	-10...+50	-10...+50
Storage temperature	[°C]	-20...+60	-20...+60	-20...+70	-20...+70	-20...+70	-20...+70	-20...+70	-20...+70
Modules	[n°]	1	1	2	2	2	2.5	2.5	2.5
Reference standards		EN 60730-2-7							

AG Timer electro-mechanical time switches

These analog timers are designed for installation on DIN-rail. They control circuit opening and closing according to the scheduled program. Available both on daily and weekly versions and equipped with a 16 A contact. They can be set on the scheduled program or on the permanent ON-OFF function. The AD1NO-R-15m, AD1CO-R-15m, AW1CO-R-120m, AD1CO-R-30m, AW1CO-R-210m versions are equipped with a built-in battery, charged by the network voltage, which allows the devices to maintain the set time also in case of long (up to 150 h) power supply failures. The products fit applications such as control of lighting systems of shops or commercial buildings, heating and ventilation systems as well as control of automatic irrigation systems of private or external gardens.

Contacts	Version	Bbn 8012542	Order details		Price 1	Weight 1 piece	Pack unit
		EAN	Type code	Order code	piece	kg	pc.
1NO	Daily time switch without reserve	224716	AD1NO-15m	2CSM222471R1000		0.072	1
1NO	Daily time switch, running reserve	224617	AD1NO-R-15m	2CSM222461R1000		0.075	1
1CO	Daily time switch without reserve	224518	AD1CO-30m	2CSM222451R1000		0.105	1
1CO	Daily time switch, running reserve	224419	AD1CO-R-30m	2CSM222441R1000		0.109	1
1CO	Weekly time switch, running reserve	224310	AW1CO-R-210m	2CSM222431R1000		0.109	1
1CO	Daily time switch without reserve	224211	AD1CO-15m	2CSM222421R1000		0.112	1
1CO	Daily time switch, running reserve	081517	AD1CO-R-15m	2CSM208151R1000		0.116	1
1CO	Weekly time switch, running reserve	081418	AW1CO-R-120m	2CSM208141R1000		0.116	1

Control and automation

AG Timer electro-mechanical time switches



AD1-R-15m-72

Technical features		
		AD1-R-15m-72
Rated voltage	[V]	230 AC
Contact type		1CO
Ohmic loads	[A]	16
Inductive loads	[A]	4
Rated frequency	[Hz]	50/60
Minimum switching interval	[Min]	15
Number of switching interval		96
Running reserve	[h]	100
Power loss	[W]	1.8
Max. switching power	[VA]	4000
Incandescent	[W]	3000
Fluorescent (VA)	[VA]	1200
Low voltage halogen	[VA]	2000
Halogen (230 V ~)	[W]	3000
Low consumption lamp (CFL)	[VA]	900
LED	[VA]	200
Max. terminal cross-section	[mm²]	4
Tightening torque	[Nm]	0.3
Installation type		wall/panel
Protection degree		IP20
Operating temperature	[°C]	-10 ...+45
Storage temperature	[°C]	-20 ...+60
Reference standards		EN 60730-2-7

AD1-R-15m-72 electro-mechanical time switch

AD1-R-15m-72 is designed for installation on panel/wall. It is used to control circuit opening and closing according to a preset program. Available in daily version, with running reserve, it is characterized by the settings on the front, which during the holding time of the load, allows for the contact status in ON/OFF to be forced until the next switching time. The AD1-R-15m-72 is the perfect solution for controlling lighting systems in shops and public buildings, heating and irrigation systems, etc.

Contacts	Version	Bbn 8012542	Order details		Price 1	Weight 1 piece	Pack unit
		EAN	Type code	Order code	piece	kg	pc.
1CO	Daily time switch running reserve	081319	AD1-R-15m-72	2CSM208131R1000		0.181	1

Selection table

Analog time switches	AD1NO-15m	AD1NO-R-15m	AD1CO-15m	AD1CO-R-15m	AW1CO-R-120m	AD1CO-30m	AD1CO-R-30m	AW1CO-R-210m	AD1-R-15m-72
Daily	■	■	■	■		■	■		■
Weekly					■			■	
Power reserve		■*		■	■		■	■	■*
Min. time switching	15 min	15 min	15 min	15 min	120 min	30 min	30 min	210 min	15 min
DIN rail mounting	■	■	■	■	■	■	■	■	
Panel/wall mounting									■
Type of contacts	NO	NO	CO	CO	CO	CO	CO	CO	CO

*non-removable battery

Control and automation

E 232 staircase lighting time-delay switches

Technical features					
	E 232-230	**E 232E-230N**	**E 232E-8/230N**	**E 232E-230 Multi 10**	**E 232E-8/230 Multi 10**
Time range (stepless)	1 – 7 min. in 15 sec. increments	0.5 – 20 min. stepless	0.5 – 20 min. stepless	0.5 – 20 min. stepless	0.5 – 20 min. stepless
Control voltage 230 V AC	■	■	■	■	■
Universal voltage in addition			8 … 240 V AC/DC		8…240 V AC/DC
Glow lamp load	50 mA	150 mA	150 mA	150 mA	150 mA
3/4 conductor operated	switches	automatically	automatically	automatically	automatically
Resettable	■	■	■	■	■
Steady-light switch	■	■	■	■	■
Advance warning acc. DIN 18015-2				■	■
Long-time range of 60 min.				■	■
Multi-functional (10 functions)				■	■
Rated voltage	230 V AC	240 V AC	240 V AC	240 V AC	240 V AC
Rated Frequency	50Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Control voltage range	0.9 ... 1.1 Un	0.85 ... 1.1 Un	0.85 ... 1.1 Un	0.85 ... 1.1 Un	0.85 ... 1.1 Un
Power loss	1 VA	6 VA	6 VA	6 VA	6 VA
Rated switching capacity	16 A, 230 V AC	16 A, 230 V AC	16 A, 230 V AC	16 A, 230 V AC	16 A, 230 V AC
Filament lamps	2,300 W	2,300 W	2,300 W	3,600 W	3,600 W
Halogen lamps	2,300 W	2,300 W	2,300 W	3,600 W	3,600 W
Fluorescent lamps series compensated / uncorrected	2,300 VA	2,300 VA	2,300 VA	3,600 VA *	3,600 VA *
Fluorescent lamps inductive or capacitive	2,300 VA	2,300 VA	2,300 VA	3,600 VA *	3,600 VA *
Fluorescent lamps shunt compensated	1,300 VA (70 µF)	400 VA (42 µF)	400 VA (42 µF)	1,200 VA (120 µF) *	1,200 VA (120 µF) *
Electronic controlgear	9x7 W, 6x11 W	9x7 W, 7x11 W,	9x7 W, 7x11 W,	34x7 W, 27x11 W,	34x7 W, 27x11 W,
	5x15 W, 5x20 W	7x20 W, 7x23 W	7x20 W, 7x23 W	24x15 W, 22x23 W	24x15 W, 22x23 W
Inductive load (cos φ = 0.6/230 V AC)	2,300	2,300	2,300	2,300	2,300
Contact material	AgSnO2	AgSnO2	AgSnO2	AgSnO2	AgSnO2
Contact gap	≥ 3 mm	< 3 mm	< 3 mm	< 3 mm	< 3 mm
Mech. serviceable life	> 106	> 107	> 107	> 107	> 107
Serviceable life at rated load, cos φ =1	> 105	> 2x105	> 2x105	> 2x105	>2x105
Serviceable life at rated load, cos φ =0.6	> 104	> 4x104	> 4x104	> 4x104	> 4x104
Max. terminal cross-section	10.7 mm²	13 mm²	13 mm²	13 mm²	13 mm²
Max. conductor cross-section	6 mm²	4 mm²	4 mm²	4 mm²	4 mm²
ON duration	Resettable after 30 sec.	100 %	100 %	100 %	100 %
Ambient temperature	– 10 °C to + 50 °C	– 25 °C to + 50 °C	– 25 °C to + 50 °C	– 25 °C to + 50 °C	– 25 °C to + 50 °C
Housing and insulation material	heat resistant, self-extinguishing thermoplast	heat resistant, self-extinguishing thermoplast	heat resistant, self-extinguishing thermoplast	heat resistant, self-extinguishing thermoplast	heat resistant, self-extinguishing thermoplast
Control current at 230 V AC	4.5 mA	26 mA	26 mA	26 mA (min. 8 mA at 8 V AC)	26 mA (min. 8 mA at 8 V AC)
Minimum command duration	10 ms	20 ms	20 ms	20 ms / 50 ms for multi voltage input	20 ms / 50 ms for multi voltage input

* no disconnection advance warning possible for this application.

Control and automation

E 232 staircase lighting time-delay switches



E 232-230



E 232 E-230N

E 232 staircase lighting time-delay switches

Staircase lighting time-delay switches are usually operated by pushbuttons, often fitted with a glow lamp. Switches are designed for a glow lamp current of up to 150 mA and thus perfectly suitable for installations in multi-storey buildings.

The E 232-230 staircase lighting time-delay switch includes an electro-mechanical timer with a synchronous motor drive to ensure high operational safety in whatever mounting position. The time range is adjustable in increments of 15 seconds from 1 to seven minutes. Resettable after 30 seconds.

E 232E–230N and E 232E-8/230N devices feature electronic time delays. A high switching capacity, 150 mA glow lamp current parallel to the pushbuttons, steplessly adjustable time range from 0.5 to 20 min, as well as low switching noise make these devices so special.

Devices of the E 232E-230 Multi 10 and E 232E-8/230 Multi 10 series are multi-functional products with 10 functions to choose from that can be adjusted from the front. Through an electronically controlled connection of the load at voltage zero, a very high switching capacity of 3,600 W (load of filament lamp) is reached.

The devices include an integrated warning feature (warning by blinking) according to DIN 18015-2 as well as a 60 minute long-time function.

The E 232E-8/230N and E 232E-8/230 Multi 10 staircase lighting time-delay switches offer an additional metallically separated control input for 8…240 V AC/DC.

Time range	Power loss	Bbn 4013614	Order details		Price 1	Weight 1 piece	Pack unit
	W	EAN	Type code	Order code	piece	kg	pc.
1 … 7 min.	1 V A	54824 3	E 232-230	2CDE110000R0501		0.081	10
20 min	6 V A	65416 6	E 232 E-230N	2CDE110003R0511		0.095	10
20 min	6 V A	65417 3	E 232 E-8/230N	2CDE010003R0511		0.1	10
20 min	6 V A	65418 0	E 232 E-230 Multi 10	2CDE110013R0511		0.095	10
20 min	6 V A	65419 7	E 232 E-8/230 Multi 10	2CDE010013R0511		0.1	10

Control and automation

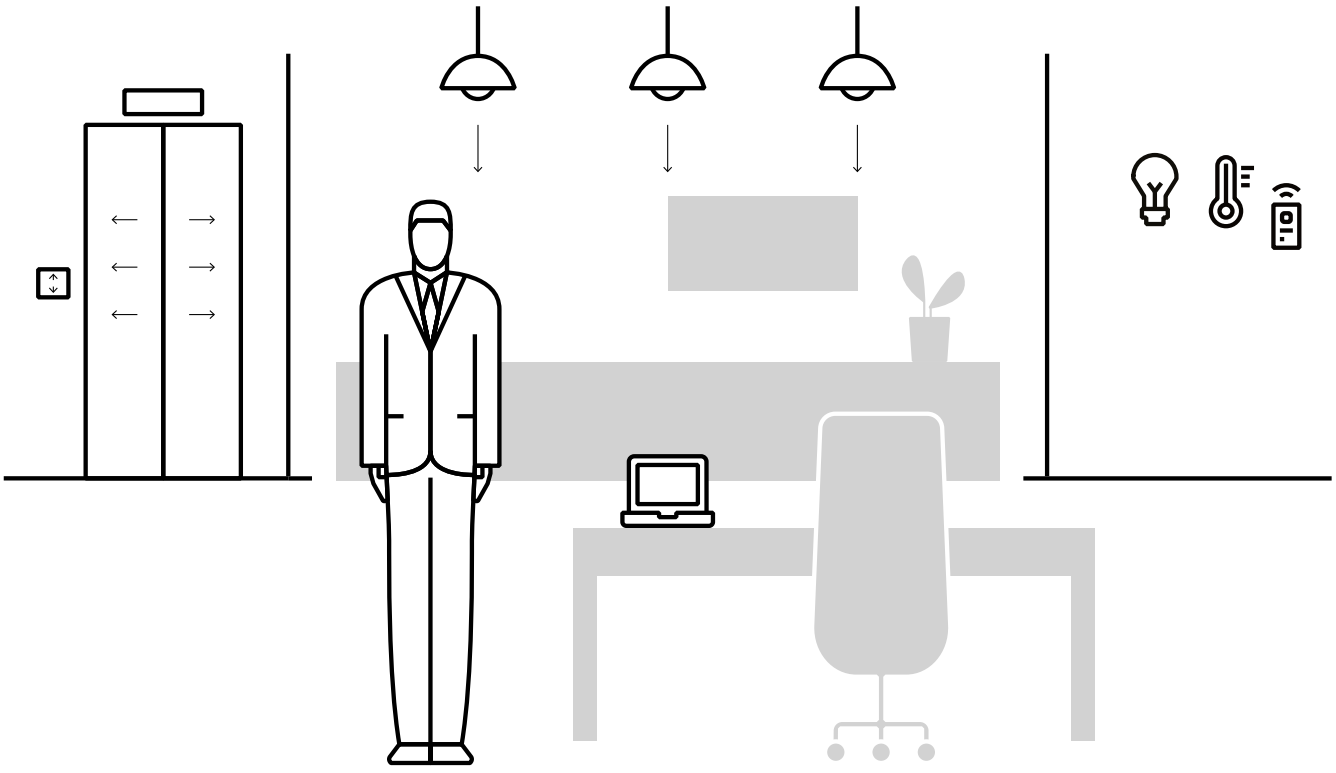
E 234 CT-D time relays for building applications

The CT-D range is designed in a modular housing, making it well suited for building and residential applications. In just 12 order codes the CT-D range covers all the main timing functions needed for building automation, safely and reliably.

A typical application for timers is delayed switching. Switching several rows of lamps on and off in corridors, stairwells, staircases, etc, is a widespread application in which the excellent functionality of the CT-D timers is undisputed.

Air conditioning systems, heaters and fans can be found everywhere in buildings - just like the CT-D timers long used to switch them. On-delay, off-delay and a range of other functions cover all requirements.

Elevators, escalators, gates, compressors and doors - here too ABB timers ensure optimum and time-delayed opening as required. ABB´s CT-D timers cover most functions with just 12 order codes.



Control and automation

E 234 CT-D time relays for building applications



The CT-D range is ideal for building applications and installation panels, due to its compact modular housing. For maximum flexibility in operation, nine single-function as well as two multifunction devices with seven timing functions are available. The devices offer four or seven time ranges from 0.05 seconds up to 100 hours. Their wide supply voltage range allows their use in applications worldwide.

Space savings

The CT-D range is ideal for installation panels thanks to its compact modular housing. The housing's design helps make the status and configuration more clearly visible. The CT-D range also offers a higher output current than standard industrial types. As well as the 1 c/o contacts, ABB offers devices with 2 c/o contacts for maximum flexibility.

Easy to install

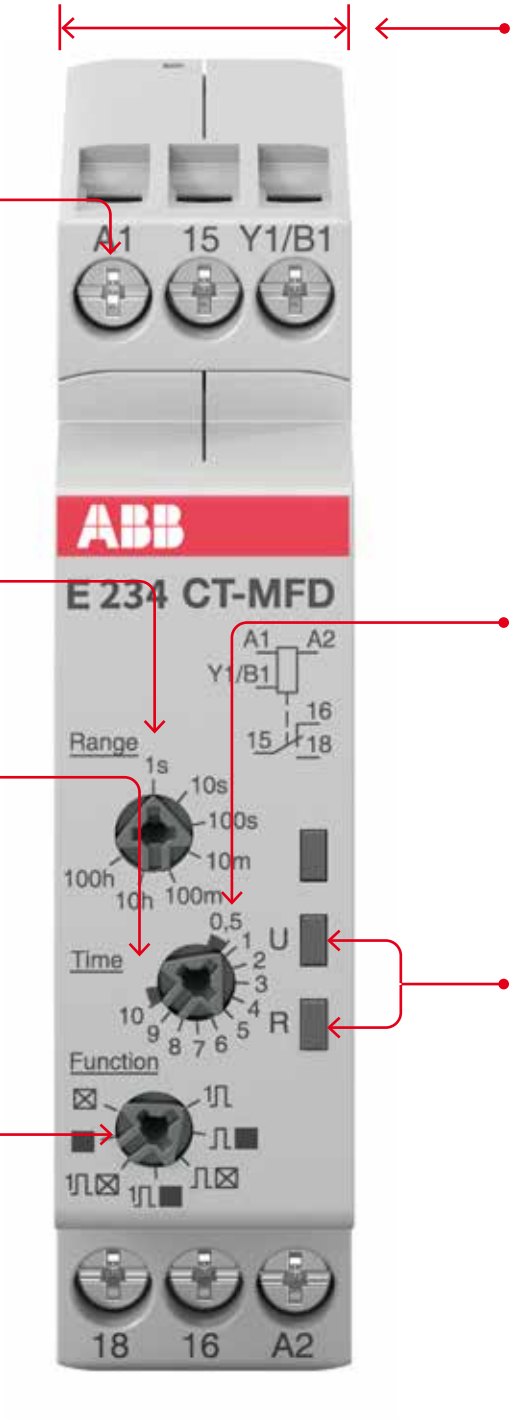
Direct reading scales help make time setting quick and easy. A pre-selection for the time range together with an additional scale for fine adjustments help improve installation efficiency. For more flexibility, the delay time can even be changed when processes are running, making optimization to fit the application even simpler. All devices can be mounted and demounted tool-free.

Global availabilty

The CT-D range fulfills various global standards and approvals, supporting business worldwide. Additionally, all devices from the CT-D range have a wide supply voltage from 24-48 V DC and 24-240 V AC, making it ideal for the use in installation panels around the world.

Control and automation

E 234 CT-D time relays for building applications



Width 17.5 mm
With a width of just 17.5 mm, the CT-D range timers are ideally suited for installation in distribution panels.

Connection terminals
Wide terminal spacing makes connection of wires simpler: 2 x 1.5 mm² (2 x 16 AWG) with wire end ferrules or 2 x 2.5 mm² (2 x 14 AWG) without ferrules.

Preselection of the time range

Fine adjustment of the time delay

Direct reading scales
Direct setting of the time delay without any additional calculation provides accurate time delay adjustment.

LEDs for status indication
All actual operational states are displayed by front-facing LEDs, thus simplifying commissioning and troubleshooting.

- U - green LED:
  control supply voltage applied /
  timing
- R, R1, R2 - yellow LED:
  output relay energized

Selection of the timing function

- ON-delay
- OFF-delay with aux. voltage
- Impulse-ON
- Impulse-OFF with aux. voltage
- Flasher starting with ON
- Flasher starting with OFF
- Pulse former

Control and automation

E 234 CT-D time relays for building applications

	Order number	1SVR500020R0000	1SVR500020R1100	1SVR500100R0000	1SVR500100R0100	1SVR500110R0000	1SVR500110R0100	1SVR500130R0000	1SVR500150R0000	1SVR500160R0000	1SVR500160R0100	1SVR500210R0100	1SVR500211R0100
	Type	CT-MFD.12	CT-MFD.21	CT-ERD.12	CT-ERD.22	CT-AHD.12	CT-AHD.22	CT-VWD.12	CT-EBD.12	CT-TGD.12	CT-TGD.22	CT-SAD.22	CT-SDD.22
Timing function													
ON-delay	⊠	■	■	■	■								
OFF-delay with aux. voltage	▬	■	■			■	■						
Impulse-ON	1⎍⊠	■	■					■					
Impulse-OFF with aux. voltage	1⎍▬	■	■										
Flasher starting with ON	⎍⊠	■	■						■				
Flasher starting with OFF	⎍▬	■	■										
Pulse generator starting with ON or OFF	⊠⎍									■	■		
Pulse former	1:1	■	■										
Star-delta change-over	Δ											■	■
Features													
Control input, voltage-related triggering		■	■			■	■			■	■		
Time range													
0.05 s - 100 h		■	■	■	■	■	■	■	■	2	2		
0.05 s - 10 min												■	■
Supply voltage													
12-240 V AC/DC			■										
24-48 V DC		■		■	■	■	■	■	■	■	■	■	■
24-240 V AC		■		■	■	■	■	■	■	■	■	■	■
Output													
c/o contact		1	2	1	2	1	2	1	1	1	2		
n/o contact												2	2

Control and automation

E 234 CT-D time relays for building applications



E 234 CT-MFD



E 234 CT-ERD

Description

The CT-D range with its modular design is a perfect solution for installation panels. For maximum flexibility in operation, 10 single-function as well as two multifunction devices with seven timing functions are available. The devices offer four or seven time ranges from 0.05 seconds up to 100 hours. Their wide input range allows their use in applications worldwide.

Timing function	Rated control supply voltage	Time ranges	Control input	Output	Bbn EAN	Type	Order code	Price 1 piece	Weight 1 piece kg (lb)
Multifunctional[1]	24-240 V AC 24-48 V DC	7 (0.05 s - 100 h)	■	1 c/o		CT-MFD.12	1SVR500020R0000		0.060 (0.132)
Multifunctional[1]	12-240 V AC/DC	7 (0.05 s - 100 h)	■	2 c/o		CT-MFD.21	1SVR500020R1100		0.065 (0.143)
ON-delay	24-240 V AC 24-48 V DC	7 (0.05 s - 100 h)	-	1 c/o		CT-ERD.12	1SVR500100R0000		0.060 (0.132)
			-	2 c/o		CT-ERD.22	1SVR500100R0100		0.065 (0.143)
OFF-delay			■	1 c/o		CT-AHD.12	1SVR500110R0000		0.060 (0.132)
			■	2 c/o		CT-AHD.22	1SVR500110R0100		0.065 (0.143)
Impulse-ON			-	1 c/o		CT-VWD.12	1SVR500130R0000		0.060 (0.132)
Flasher starting with ON			-			CT-EBD.12	1SVR500150R0000		
Pulse generator		2×7 (0.05 s - 100 h)	■			CT-TGD.12[2]	1SVR500160R0000		0.060 (0.132)
			■	2 c/o		CT-TGD.22[2]	1SVR500160R0100		0.065 (0.143)
Star-delta change-over		4 (0.05 s - 10 min)	-	2 n/o		CT-SDD.22[3]	1SVR500211R0100		0.065 (0.143)
			-			CT-SAD.22[4]	1SVR500210R0100		

1) Functions: ON-delay, OFF-delay with auxiliary voltage, Impulse-ON, Impulse-OFF with auxiliary voltage, Flasher starting with ON, Flasher starting with OFF, Pulse former
2) ON and OFF times adjustable independently: 2 x 7 time ranges 0.05 s - 100 h
3) Transition time 50 ms fixed
4) Transition time adjustable

■ Control input with voltage-related triggering
- no triggering

Control and automation

TL Line twilight switches



TL1

Technical features			
			TL1
Rated supply voltage		[V]	110 ÷ 230 AC
Contact type			1NO
Incandescent lamps cosφ 1		[W]	1000
Fluorescent lamps cosφ 0.8		[W]	300
Fluorescent- duo/electronic lamps		[W]	300
LED lamps		[W]	100
Rated frequency		[Hz]	50/60
Switching delay ON		[s]	23±10%
Switching delay OFF		[s]	23±10%
Brightness range (with tolerance of +-20%)		[lx]	2...200
Protection degree twilight switch			IP20
Protection degree sensor			IP54
Operating temperature twilight switch		[°C]	-25...+55
Operating temperature sensor		[°C]	-40...+70
Storage temperature twilight switch		[°C]	-40...+70
Storage temperature sensor		[°C]	-50...+80
Power consumption		[W]	0.4 W cosφ 0.4 (idle) 0.9 W cosφ 0.42 (active)
Max terminal cross section		[mm²]	6
Terminals			loss-proof screw
Screw Type			PZ1
Tightening torque	terminals	[Nm]	1.2
	sensor screw	[Nm]	1.2
Mounting			on DIN rail
Switching status indication/ brightness range			red/green LEDs
Max wiring length		[m]	100
Modules		[n°]	1
Reference standards			EN 60669-1 EN 60662-2-1 EN60730-1

Control and automation

TL Line twilight switches



TL1

TL Line modular twilight switches

TL1 twilight switch allows to switch ON and switch OFF lighting devices according to a scheduled level of the ambient light. It is used in combination with an external sensor to detect if the ambient light is higher or lower than the set level . A switching delay prevents them from operating unnecessarily when the light intensity suddenly changes (e.g. lightning, moving vehicles, etc.). The TL1 twilight switch 1 channel is preset with a 10 LUX from factory and it is equipped with 2 signalling LEDs that indicate the setpoint value and display the status of the contact . The operating instructions are printed on the side of the product.

Brightness range	Bbn 8012542	Order details		Price 1	Weight 1 piece	Pack unit
lx	EAN	Type code	Order code	piece	kg	pc.
2:200	299219	TL1	2CSM229921R1341		0.155	1

Accessories for TL Line modular twilight switches

The external sensor TLs is supplied in the same package of the switch,TL1, but it's also available separately as spare part. The upper part of the external case (with screw locking), made up of thermoplastic material, bears up against ultraviolet rays to guarantee an homogeneous diffusion of the daylight internally. The sensor is also equipped with a cable gland.



TLs

	Bbn 8012542	Order details		Price 1	Weight 1 piece	Pack unit
	EAN	Type code	Order code	piece	kg	pc.
External sensor	299318	TLs	2CSM229931R1341		0.008	1

Control and automation

TL Line twilight switch



TL1 Pole

Technical features		
		TL1 POLE
Rated supply voltage	[V]	110 ÷ 230 AC
Contact type		1NO polarized
Incandescent lamps cosφ 1	[W]	1000
Fluorescent lamps cosφ 0.8	[W]	300
Fluorescent- duo/electronic lamps	[W]	300
LED lamps	[W]	100
Rated frequency	[Hz]	50/60
Switching delay ON	[s]	25+-10%
Switching delay OFF	[s]	35+-10%
Brightness range (with tolerance of +-20%)	[lx]	2...200
Protection degree twilight switch		IP54
Protection degree sensor		IP54
Operating temperature twilight switch	[°C]	-40...+70
Operating temperature sensor	[°C]	-40...+70
Storage temperature twilight switch	[°C]	-50...+80
Storage temperature sensor	[°C]	-50...+80
Power consumption	[W]	0.25 W cosφ 0.35 (idle) 0.8 W cosφ 0.4 (active)
Max terminal cross section	[mm²]	6
Terminals		loss-proof screw
Screw Type		PZ1
Tightening torque: terminals	[Nm]	1.2
screw sensor	[Nm]	1.2
Mounting		Pole/wall mounted
Switching status indication/ brightness range		red/green LEDs
Max wiring length		100
Modules		
Reference standards		EN 60669-1 EN 60662-2-1 EN60730-1

TL1 Pole mounting twilight switch

The TL1 Pole version is designed for installation on the pole/wall, with photocell inputs and integrated cabling including cable gland seals to ensure a high protection degree. Thanks also to the high quality, TL1 Pole provides excellent resistance to atmospheric agents and a long service life. TL1 Pole is also internally equipped with a preset sensor of 10 LUX. The sensor is extractable from the base and allows an easy and efficient maintenance without needing further wiring. TL1 Pole is the ideal solution to manage the external light systems such as the public ones, more precisely, in cases where there is a need of controlling the lighting of public or private roads, gardens, courtyards at the decline of solar radiation during twilight.

Brightness range	Bbn 8012542	Order details		Price 1	Weight 1 piece	Pack unit
lx	EAN	Type code	Order code	piece	kg	pc.
2:200	299110	TL1 Pole	2CSM229911R1341		0.135	1

Control and automation

E 450 priority switches



E 450

Technical characteristics		
	E 451-5.7	E 452-5.7
Operating coil		
Range of rated current equivalent to	6.7 ... 39 A correlates 1.5 ... 9 kW at 230 V, 4.6 ... 27 kW at 230/400 V	
Threshold current	3.1 ... 5.3 A	
OFF delay (max.)	0 main half waves	2 main half waves
Max. continuous current	43 A	
Therm. continuous capacity at 40 °C/104 °F	5 W	
Contact assembly		
Control contact	1 NC contact	
Rated contact current at 250 V	1 A	
Contact material	solid silver	
Max. switching voltage	400 V	
Max. switching capacity	230 VA	
Max. switched current	1 A	
Max. inrush current peak	5 A	
Electr. service life	> 10^5 operations	
Mechanical service life	app. 2 x 10^6 operations	
Max. electrical switching rate	app. 1800 operations/hour	
ON duration	100 %	
Ambient temperature	– 20 °C/– 4 °F to + 40 °C/104 °F	
Response time	10 ... 20 ms	
Release time	5 ... 20 ms	≥ 20 ms
Test voltage contact/coil	2.5 kV	
Clearance and creepage distance	C/250 V AC cording to IEC 669-1-23	
Protection degree	IP 40	
Protection against electric shock	according to DIN VDE 0106 Part 100 (BGV A2)	
Terminal contact	series coil up to 16 mm^2, control contact up to 2.5 mm^2	

E 450 priority switches

The priority switch is used in wiring systems where existing lead cross sections or the size of the power supply service box do not allow for simultaneous operation of two powerful loads (e.g. storage heating and flow-type heater).

The priority switch disconnects the long-term load (storage heating) for as long as the short-term consumer (flow-type heater) is switched on.

The coil of the priority switch is connected in series to the short-term load. When this load is switched on, the NC contact of the priority switch disconnects e.g. the heating system contactor.

For pneumatically controlled flow-type heaters							
Rated current range	Power loss	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
	W	EAN	Type code	Order code	piece	kg	pc.
6,7 ... 39 A	2.4	41590 3	E 451- 5.7 A	2CDE160000R0901		0.1	10

For electronically controlled flow-type heaters							
Rated current range	Power loss	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
	W	EAN	Type code	Order code	piece	kg	pc.
6.7 ... 39 A	2.4	20950 2	E 452-5.7 A	2CDE160010R0901		0.1	10

Control and automation

Load management relay



LCR

Technical characteristics		
Input		
Rated voltage Un	[Vac]	230 (-15%/+10%)
Rated frequency	[Hz]	50/60
Rated capacity In	[A]	32
Power consumption	[VA]	4
Display		
Type of display		backlit LCD
Resolution	[kW]	0.01
Display dimensions	[mm]	27 × 23
Non-priority load		
Regulating thresholds	[kW]	0.8..7
Resolution of threshold	[kW]	0.1
Delay of loads disconnection	[sec]	0..9999
Delay between one connection and the next one	[sec]	0..9999
Alarm notification		LED // buzzer
Relay output		
Rated current	[A]	16
Rated voltage	[Vac]	250
Climatic conditions		
Storage temperature		-10°C to +65°C
Operating temperature		-10°C to +45°C
Relative humidity		max. 90% (non-condensing)
Protection degree		
At terminals		IP20
On the front panel		IP51
Max cable cross-section		
rigid	[mm²]	4
flexible	[mm²]	6
Modules (18mm)	[No.]	2

Load management relay - LCR

Installed downstream of the main circuit-breaker, it compares the actual power consumption of the system to a preset maximum permitted value. Additionally, the load management relay prevents tripping of the main circuit-breaker by sequentially switching off one non-priority load when the preset threshold is exceeded. One red LED and an integrated buzzer indicate the load OFF conditions. At preset time intervals, the device automatically attempts to reconnect the previously disabled load.

Note: In unbalanced three phase systems same function of LCR can be implemented via DMTME multimeters. Digital outputs of the multimeter can be set to trip with an user defined delay to switch off - by means of external contactors - non prioritary loads of arbitrary consumption. See for details in Chapter 8 of Electrical installation solutions for buildings.

Rated current	Bbn 8012542			Price 1 piece	Weight 1 piece	Pack unit
A	**EAN**	**Type code**	**Order code**		**kg**	**pc.**
32	299011	LCR	2CSM229901R1311		0.135	1

Control and automation

E 235 mains disconnection relays



E 235

Technical features		
Short circuit rupturing capacity		16 A/230 AC
Rated frequency		50/60 Hz
Range of control voltage		0.9 to 1.1 Un
Filament lamps		2300 W
Fluorescent lamps:		
	twin lamp circuit	100 W
	shunt compensated	56 W
	electronic ballast	max. 36 W, dependent on manufacturer
Inductive load cosφ 0.6		6 A
Max. switching capacity (cosφ 0.5)		3500 VA
Intrinsic consumption ca.		1 W
Control voltage		5 V a.c.
Adjustable making capacity		2 - 15 VA
Breaking capacity		0.66 x making capacity
ON delay		50 ms
OFF delay		ca. 3 sec.
Contact assembly		1 NO contact
Service life at rated load		> 100000 switching cycles
Ambient temperature		- 10 °C/14 °F to +45 °C/113 °F
Max terminal cross-section		2.5 mm^2

Control and automation

E 235 mains disconnection relays



E 235-NFS



E 235-GLE

E 235 Mains disconnection relay

Application and method of operation

According to building biologists, electrical interference fields emitted from live cables can impair well-being when the human organism is exposed to them for longer periods, e.g. in the bedroom. The E 235 demand switch automatically cuts off the mains voltage of an electric circuit when the last consumer in that circuit has been switched off. When the first consumer is switched on, the device switches the mains voltage back on with almost no delay. A low voltage of approx. 3 V is used to monitor whether consumers are switched on. As alternating voltage is used for this, it is virtually certain that even small consumer units with a capacitor and transformer power pack - e.g. charging stations for rechargeable devices, standard lamps, etc. - will be reliably detected and switched. Interference fields emitted by the monitoring voltage are so small that they cannot be registered. The mains is switched on when the consumer load exceeds the making capacity set in the demand switch. It is cut off when the consumer load falls to 2/3 of the set making capacity. The ON state is indicated by the integrated LED. You can choose between „Automatic monitoring“ and „Permanent ON“ using a rotary switch on the E 235.

Accessories

The E 235-GLA base load adapter is also available, and is used for switching the demand switch on manually. The adapter is plugged into a socket that is monitored by the demand switch. The toggle switch switches the base load, which is used to switch on the demand switch.

Some consumers require an initial voltage equal to the mains voltage in order to be switched on. These include brightness controllers, and fluorescent and energy-saving lamps. The PTC base load element E 235-GLE and base load adapter E 235-GLA are available for ensuring reliable switch-on of the mains field relay. The indicator light on the adapter displays the switched on mains voltage, irrespective of the position of the toggle switch. It tells you whether the mains voltage has been cut off or whether other consumers are still switched on. If you wish to connect a dimmer to the output of the demand switch, this must feature an additional switching contact. A base load element is also switched in parallel.

Description	Bbn 4016779	Order details		Price 1	Weight 1 piece	Pack unit
	EAN	Type code	Order code	piece	kg	pc.
mains disconnection relay	571821	E 235-NFS	2CDE110000R1701		0.065	1
base load element	571814	E 235-GLE	2CDE100500R1711		0.001	1
base load adapter	571869	E 235-GLA	2CDE100510R1711		0.070	1

Notes

Electrical installation solutions for buildings
Energy efficiency

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M4M Network analyzers

Accurate electrical measuring and power monitoring.

Simple in every aspect, M4M enables accurate energy efficiency evaluations and perfectly fits the ABB solution for monitoring, optimization and control of electrical system.

Smart commissioning
Bluetooth module for easy configuration through EPiC Mobile App unique commissioning tool.

Accurate measurement
Class 0,5 measurement according to IEC 61557-12 and advanced power quality functionalities, including historical measurements.

Option for MID Approval
Class C accuracy in accordance with 2014/32/EU for billing applications.

Clear visualization
Color display and App-structured menu for advanced graphic visualization.



Intuitive access
Simplified access to the device via touch screen display or 5 pushbuttons keypad.

Easy to install
Fast one-hand mounting and comfortable installation with clips in only 57 mm depth inside the panel.

Full communication
ABB Ability™ native network analyzers with complete communication protocols and I/O options for integration in any system.



Fast wiring
All-removable terminals and one tool process to speed up the wiring activities.



Intuitive interface
Touchscreen display and easy-to-access App-structured menu make network analyzers' configuration and operation simple and quick. Graphic color display for advanced visualization of the Class 0,5S accurate parameters, interactive pop-ups and complete notifications. Quick navigation is ensured by Homepage and favorite page setting.



Full integration
Natively integrated in sub-distribution management System pro M compact InSite and ABB Ability™ Energy and Asset Manager cloud-solution. To allow monitoring, optimization and control of the complete electrical system.
Wide integration in all main applications through embedded communication protocols (Modbus RTU, Modbus TCP/IP, BACnet/IP, Profibus DP V0).





Smart commissioning
All M4M network analyzers are equipped with Bluetooth BLE module, ensuring smart configuration and quick visualization via unique EPiC commissioning tool, both available as mobile App and desktop software. Availability of remote firmware update regularly at any time guarantees the latest and the most secure version of the device with no impact on operations.



Installation in any panel
Comfortable installation and secure fix on the panel is ensured by the easy-to-use clips, with different thickness setup for compatibility with any panel. One-hand mounting of the device thanks to the hooks on the housing.
The reduced depth of only 57 mm inside the panel makes M4M suitable even in small-size switchboards.



Fast installation and wiring
All terminals on M4M are removable, including the current transformers (CTs) inputs for current measurement, allowing to carry out the wiring directly on the terminals and speeding up the process. Moreover, the vertical disposition of the terminals makes the cabling inside the switchboard more comfortable.



Rogowski coils compatibility
Specific M4M versions compatible with ABB's R4M Rogowski coils allow to retrofit in existing installations, integrating power quality metering with 0 downtime. The pre-wired terminals of R4M coils allow to save up to 70% time for current transformers cabling compared to standard CTs.

Technical features







		M4M 20	M4M 30	M4M 2X
Auxiliary power supply				
Voltage range	[V]		48 - 240 V AC/VDC ±15 %	
Frequency	[Hz]		50 - 60	
Power consumption	[VA]		10 VA max	
Installation category			CAT III 300V class per IEC 61010-1 edition 3	
Protection fuse			T1 A - 277 VAC	
Measurement accuracy				
Measurement type			True RMS up to the 40th harmonic	
			128 samples per cycle, zero blind	
IEC 61557-12			IEC 61557-12 PMD/S/K70/0,5	
Active energy			Class 0,5 acc. to IEC 61557-12 [*]	
			Class 0,5S acc. to IEC 62053-22	
Reactive energy			Class 2 acc. to IEC 61557-12	
			Class 2S acc. to IEC 62053-23	
Active power			Class 0,5 acc. to IEC 61557-12	
Reactive power		Class 2 acc. to IEC 61557-12	Class 1 acc. to IEC 61557-12	Class 1 acc. to IEC 61557-12
Apparent power			Class 0,5 acc. to IEC 61557-12	
Voltage			Class 0,2 acc. to IEC 61557-12	
Current			Class 0,2 acc. to IEC 61557-12	
Neutral current		Calculated	Class 0,2 acc. to IEC 61557-12	Calculated (2X, 2X PQ1, 2X RTS) Class 0,2 acc. to IEC 61557-12 (2X PQ2)
Frequency			Class 0,1 acc. to IEC 61557-12	
Unbalances (Current, Voltage)			Class 0,2 acc. to IEC 61557-12	
Harmonics, THD (Current, voltage)			Class 1 acc. to IEC 61557-12	
Voltage measurement inputs				
Measurement range	[V]		50 - 400 V AC (L-N) 87 - 690 V AC (L-L)	
Measurement category			400V~ (CAT III)	
Rated frequency	[Hz]		50/60 Hz	
Max. VT Primary (indirect connection)	[V]		500 kV AC (L-N)	
Max over voltage	[V]		800 V AC (L-L)	
Protection fuse	[V]		T1 A - 277 V AC	
Insulation characteristics				
Test Voltage impulse @230V to accessible parts			6,4 kV 1,2/50 µS	
Test Voltage impulse @400V to accessible parts			9 kV 1,2/50 µS	
Test Voltage @230V to accessible parts			3 kV 60s @2000m	
Test Voltage @400V to accessible parts			3,6 kV 60s @2000m	
Current measurement inputs				
Number of current inputs		3 (L1, L2, L3)	4 (L1, L2, L3, N)	3 (2X, 2X PQ1, 2X RTS), 4 (2X PQ2)







		M4M 20	M4M 30	M4M 2X
Indirect insertion with CT				
CT rated secondary current			5 A (Class 0,5S)	
			1 A (Class 0,5S)	
Max primary CT			50kA	
Measurement range without accuracy derating			10 mA - 6 A	
Starting current			1 mA	
Burden			0,024 VA at 6 A	
Indirect insertion with Rogowski coils		**M4M 20 Rogowski**	**M4M 30 Rogowski**	**-**
Rated current			10.000 A	-
Measurement range without accuracy derating			100 A - 12 kA	-
Length of coils connections cable to M4M			3m	
Starting current	[A]		10 A	-

I/O

Digital Output				
Voltage (min - max)			5 - 240 V AC/DC	
Current (min - max)			2 - 100 mA	
Max ON state drop voltage			1,5 V	
Max R value at Min voltage conditions (5 V)			1750 Ohm	
Min R value at Max voltage conditions (240 V)			2400 Ohm	
Pulse duration	[ms]		20 ms ON, 20 ms OFF	
Pulse frequency			25 Hz	
Alarm activation delay	[s]		1 - 900 s (programmable)	
Alarm return hysteresis			0 - 40 % (programmable)	
Digital Input				
Maximum voltage			240 V AC/DC	
Max voltage for OFF state on input			20 V AC/DC	
Min voltage for ON state on input			45 V AC/DC	
Analogue Output				
Programmable electrical span			Span [0 - 20 mA or 4 - 20 mA]	-
Load			Typical 250 Ohm, max 500 Ohm	-
Technical data for MID version		**M4M 20-M**	**M4M 30-M**	**-**
MID standards			EN 50470-1, EN 50470-3	
Voltage measurement (type of network and rated voltage)			3Ph/4W - 3Ph/3W - 2Ph/3W - 1Ph/2W, 3 x 230 (400)...3 x 400 (690) V	
Current rating (I min- I ref(Imax))			0,01-1(6) A	
Rated frequencies			50 Hz and 60 Hz	
Tolerance on rated frequencies			+/- 2%	
Active Energy accuracy class			Class C	
Pulse value S0 (pulse constant)			200000 imp/kWh	
Electromagnetic ambient conditions			Class E2	
Mechanical ambient conditions			Class M1	
LED indicator pulse frequency	[s]		200000 imp/kWh	
LED indicator pulse length			1ms	

Energy efficiency

Network analyzers M4M 20, 30 and 2X

Technical features				
Type		**M4M 20 - Class 0,5S**	**M4M 30 - Class 0,5S**	**M4M 2X**
				
Auxiliary power supply				
Voltage range	[V]	48 - 240 VAC/VDC ±15%		
Frequency	[Hz]	50-60		
Power Consumption	[VA]	10 VA max		
Installation category		CAT III 300V class per IEC 61010-1 edition 3		
Protection fuse		T1 A - 277 VAC		

Measurement accuracy*				
Measurement type		True RMS up to the 40th harmonic		
		128 samples per cycle, zero blind		
IEC 61557-12		IEC 61557-12 PMD/S/K70/0,5		
Active energy		Class 0,5 acc. to IEC 61557-12 [*]		
		Class 0,5S acc. to IEC 62053-22		
Reactive energy		Class 2 acc. to IEC 61557-12		
		Class 2S acc. to IEC 62053-23		
Active power		Class 0,5 acc. to IEC 61557-12		
Reactive power		Class 2 acc. to IEC 61557-12	Class 1 acc. to IEC 61557-12	Class 1 acc. to IEC 61557-12
Apparent power		Class 0,5 acc. to IEC 61557-12		
Voltage		Class 0,2 acc. to IEC 61557-12		
Current		Class 0,2 acc. to IEC 61557-12		
Neutral current		Calculated	Class 0,2 acc. to IEC 61557-12	Calculated (2X, 2X PQ1, 2X RTS) Class 0,2 acc. to IEC 61557-12 (2X PQ2)
Frequency		Class 0,1 acc. to IEC 61557-12		
Unbalances (Current, Voltage)		Class 0,2 acc. to IEC 61557-12		
Harmonics, THD (Current, voltage)		Class 1 acc. to IEC 61557-12		

* The total accuracy rate returned in the output is equal to the sum of the Analog Output accuracy rate and the device accuracy rate.

Voltage measurement inputs		
Measurement range	[V]	46-480 (L-N) 80 - 830 VAC (L-L)
Measurement category		400V~ (CAT III)
Rated frequency	[Hz]	50-60 Hz
Max. VT secondary (indirect connection)	[V]	400 VAC (L-N)
Max over voltage	[V]	800 VAC (L-L)
Protection fuse	[V]	T1 A - 277 VAC

* Accuracy referred to insertion with .../5A CT or Rogowski coils, according to product version. Derating for .../1A CT.

Insulation sharacteristics	
Test Voltage Impulse @230V to accessible parts	6,4 kV 1,2/50µS
Test Voltage Impulse @400V to accessible parts	9 kV 1,2/50µS
Test Voltage @230V to accessible parts	3 kV 60s @2000m
Test Voltage @400V to accessible parts	3,6 kV 60s @2000m

Energy efficiency

Network analyzers M4M 20, 30 and 2X

Technical features				
Type		**M4M 20 - Class 0,5S**	**M4M 30 - Class 0,5S**	**M4M 2X**
				
Current measurement inputs				
Number of current inputs		3 (L1, L2, L3)	4 (L1, L2, L3, N)	3 (2X, 2X PQ1, 2X RTS), 4 (2X PQ2)
Indirect insertion with CT				
CT rated secondary current			5 A (Class 0.5S)	
			1 A (Class 0.5S)	
Max primary CT			50 kA	
Measurement range without accuracy derating			50 mA - 6 A	
Starting current			1 mA	
Burden			0.024 VA at 6 A	
Indirect insertion with Rogowski coils		**M4M 20 Rogowski**	**M4M 30 Rogowski**	**-**
Rated current			10,000 A	-
Measurement range without accuracy derating			100 A - 12 kA	-
Length of coils connections cable to M4M		3 m	3 m	
Starting current	[A]		10 A	-
I/O				
Digital Output				
Voltage (min - max)			5 - 240 VAC/DC	
Current (min - max)			2 - 100 mA	
Max ON state drop voltage			1.5 V	
Max R value at Min voltage conditions (5 V)			1750 Ohm	
Min R value at Max voltage conditions (240 V)			2400 Ohm	
Pulse duration	[ms]		20 ms ON, 20 ms OFF	
Pulse frequency			25 Hz	
Alarm activation delay	[s]		1 - 900 s (programmable)	
Alarm return hysteresis			0 - 40% (programmable)	
Digital Input				
Maximum voltage			240 VAC/DC	
Max voltage for OFF state on input			20 VAC/DC	
Min voltage for ON state on input			45 VAC/DC	
Analogue Output				
Programmable electrical span			Span [0 - 20 mA or 4 - 20 mA]	
Load			Typical 250 Ohm, max 500 Ohm	
Technical data for MID version				
MID standards			EN 50470-1 - EN 50470-3 - EN 62052-31	
Voltage measurement (type of network and rated voltage)			3Ph/4W - 3Ph/3W - 2Ph/3W - 1Ph/2W - 3x230/400	
Current rating (I min- I ref(Imax)			0,01-1(6) A	
Rated frequencies			50 Hz and 60 Hz	
Tolerance on rated frequencies			+/- 2%	
Active Energy accuracy class			Class C	
Pulse value S0 (pulse constant)			200000 imp/kWh	
Electromagnetic ambient conditions			Class E2	
Mechanical ambient conditions			Class M1	
Utilization category - IEC 62052-31			2	
LED indicator pulse frequency			200000 imp/kWh	
LED indicator pulse length			1ms	

Energy efficiency

Network analyzers

Technical features				
Type		**M4M 20 - Class 0,5S**	**M4M 30 - Class 0,5S**	**M4M 2X**
				
Mechanical characteristics				
Overall dimensions		96 mm × 96 mm × 78 mm (Depth inside the switchboard: 57 mm)		96 mm x 96 mm x 78 mm (DIN-rail mounting)
IP degree of protection (acc. to IEC 60529)		Front: IP54		-
		Terminals: IP20		
Weight	[g]	400		
Terminal characteristics				
Voltage inputs		Nominal cross section: 2,5 mm² Solid/stranded wire: 0,2 - 2,5 mm2 (AWG 24 - 12) Pitch: 7,62 mm Poles: 4		
Current inputs		Nominal cross section: 2,5 mm² Solid/stranded wire: 0,2 - 2,5 mm² (AWG 24 - 12) Pitch: 5,08 mm Poles: 6 Screw flanges for fixing	Nominal cross section: 2,5 mm² Solid/stranded wire: 0,2 - 2,5 mm2 (AWG 24 - 12) Pitch: 5,08 mm Poles: 8 Screw flanges for fixing	
RS-485 Serial port		Nominal cross section: 2.5 mm² Solid/stranded wire: 0.2 - 2.5 mm² (AWG 24 - 12) Pitch: 5.08 mm Poles: 3		
I/O		Nominal cross section: 2.5 mm² Solid/stranded wire: 0.2 - 2.5 mm² (AWG 24 - 12) Pitch: 5.08 mm Poles: 3 (Programmable I/O, only on M4M 20 I/O) Poles: 3 (Digital outputs) Poles: 3 (Analogue outputs, only on M4M 20 I/O)	Nominal cross section: 2.5 mm² Solid/stranded wire: 0.2 - 2.5 mm² (AWG 24 - 12) Pitch: 5.08 mm Poles: 5 (Programmable I/O) Poles: 3 (Programmable I/O only on M4M 30 I/O) Poles: 3 (Analogue outputs, only on M4M 30 I/O)	Nominal cross section: 2,5 mm² Solid/stranded wire: 0,2 - 2,5 mm2 (AWG 24 - 12) Pitch: 5,08 mm Poles: 5 (Programmable I/O)
Rogowski current probes		Only with ABB Rogowski probes: - R4M-200 2CSG202150R1101 (200 mm diameter) - R4M-80 2CSG202160R1101 (80 mm diameter)		-
Climatic conditions				
Operating temperature		-25 to 70 °C (K70 acc. to IEC 61557-12)		
Storage temperature		-40 to 85 °C (K70 acc. to IEC 61557-12)		
Relative humidity		Max 93% (non-condensing) at 40°C		
Pollution degree		2		
Altitude		< 2,000 m		
User Interface				
Access to device		5 pushbuttons	Touchscreen	-
Display type		Graphic color display		-
Display dimensions		70 × 52 mm (3.5")		-

Energy efficiency
Network analyzers

Technical features			
Type	**M4M 20 - Class 0,5S**	**M4M 30 - Class 0,5S**	**M4M 2X**
			
Communication protocol			
Modbus RTU	**M4M 20 Modbus, M4M 20 I/O, M4M 20 Rogowski**	**M4M 30 Modbus, M4M 30 I/O, M4M 30 Rogowski**	**M4M 2X Modbus**
Communication interface	RS485 with optical isolation		
Baud rate	9.6, 19.2, 38.4, 57.6, 115.2 kbps		
Parity number	Odd, Even, None		
Stop bit	1, 2		
Address	1-247		
Connector	3 pole terminal		
Profibus DP-V0	**M4M 20 Profibus**	**M4M 30 Profibus**	**-**
Protocol	Profibus with slave DP-V0 function in compliance with IEC 61158 regulations		-
Communication interface	RS485 with optical isolation		-
Baud rate	Automatic detection [9.6 kbps - 12 Mbps]		-
Address	0-126		-
Connector	DB 9 female connector (do not use connectors with 90° cable outlet)		-
LED indicators	Green for communication status		-
	Red for communication error		-
Modbus TCP/IP	**M4M 20 Ethernet**	**M4M 30 Ethernet**	**M4M 2X Ethernet**
Protocol	Modbus TCP/IP		
Communication interface	RJ45	RJ45 (2 ports for daisy-chain)*	
BACnet	**M4M 20 Bacnet**	**M4M 30 Bacnet**	
Protocol	BACnet/IP		-
Communication interface	RJ45		-
Bluetooth			
Type	BLE (Bluetooth Low Energy)		
Real-time clock			
Clock drift	-	~ 0.4 seconds per day	
Battery backup time	-	~ 3 days without aux supply	
Standards			
Power metering and monitoring devices (PMD)	IEC 61557-12 (IEC 62053-22, IEC 62053-23)		
Electrical safety	IEC 61010-1		
EMC	IEC 61326-1 (IEC 61000-3-2, IEC 61000-3-3, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11)		

*1x RJ45 port available on M4M 30-M

Energy efficiency

Network analyzers

Technical features			
Type	**M4M 20 - Class 0,5S**	**M4M 30 - Class 0,5S**	**M4M 2X - Class 0,5S**
			
Real-time			
TRMS current	●	●	●
TRMS Voltage	●	●	●
Frequency	●	●	●
Active, Reactive and Apparent Power	●	●	●
Power Factor	●	●	●
Operating timer, countdown timer	●	●	●
Energy			
Active, Reactive and Apparent Energy	●	●	●
4 quadrants Energy (Import/Export)	●	●	●
Tariffs	/	●	/
Power Quality			
THD (I, VLN, VLL)	●	●	●
Individual Harmonics	/	40th	25th
Unbalances (I, VLN, VLL)	/	●	●
Neutral current	Calculated	Measured	Calculated
Phasors (I, VLN)	/	●	
Waveforms (I, VLN, VLL)	/	●	
Data recording and logs			
Single alarms	25	25	25
Warnings, alarms and errors log	●	●	●
Complex alarms with logics	/	4	/
Demand values (average)	Basic	Advanced	Basic
Min/Max Demand values	Basic	Advanced	Basic
Energy Trending logs	/	●	/
RTC	/	●	●
HMI	**Graphic color**	**Graphic color touchscreen**	
Graphs visualization	Basic	Advanced	/
Notifications	●	●	/
Homepage and favourite page	●	●	/
Password protection	●	●	/
Connectivity			
Automatic integration in ABB Ability™ EDCS	●	●	●
Bluetooth Low Energy	●	●	●
Communication Protocols	Modbus RTU, Modbus TCP/IP, Profibus DP-V0, BACnet/IP	Modbus RTU, Modbus TCP/IP, Profibus DP-V0, BACnet/IP	Modbus RTU, Modbus TCP/IP
RJ45 Daisy Chain (Ethernet version)*	/	●	●

*1x RJ45 port available on M4M 30-M

Energy efficiency
Network analyzers



M4M 20

M4M 20 is ABB's network analyzer range that provides complete and accurate electrical parameters monitoring and basic power quality analysis.
Equipped with graphic color display for advanced visualization of the measured parameters and Bluetooth module for smart commissioning.

Communication protocol	I/O	Bbn 8012542 EAN	Order details		Weight 1 piece kg	Pack unit pc.
			Type code	Order code		
BLE	2 Digital out.	511519	M4M 20	2CSG251151R4051	0,400	1
BLE, Modbus RTU	2 Digital out.	511410	M4M 20 Modbus	2CSG251141R4051	0,400	1
BLE, Modbus TCP/IP	2 Digital out.	044710	M4M 20 Ethernet	2CSG204471R4051	0,400	1
BLE, Profibus DP-V0	2 Digital out.	511311	M4M 20 Profibus	2CSG251131R4051	0,400	1
BLE, BACnet/IP	2 Digital out.	368311	M4M 20 Bacnet	2CSG236831R4051	0,400	1
BLE, Modbus RTU	2 Progr. I/O, 2 Digital out., 2 Analogue out.	511618	M4M 20 I/O	2CSG251161R4051	0,400	1
MID BLE, Modbus RTU	2 Digital Out.	390558	M4M 20-M MODBUS	2CSG239055R4051	0,400	1
MID BLE, Modbus TCP/IP	2 Digital Out.	390657	M4M 20-M ETHERNET	2CSG239065R4051	0,400	1



M4M 20 - Rogowski version

M4M 20 is also available as compatible with ABB's R4M Rogowski coils for current measurement, increasing the flexi-bility of network analyzers offer and allowing retrofit in any existing installations.
M4M 20 Rogowski together with R4M Rogowski coils ensures the integration of basic power quality metering in any existing system with 0 downtime.

Communication protocol	I/O	Bbn 8012542 EAN	Order details		Weight 1 piece kg	Pack unit pc.
			Type	Order code		
BLE, Modbus RTU	2 Digital out.	070818	M4M 20 Rogowski	2CSG207081R4051	0.400	1



M4M 30

M4M 30 is ABB's network analyzer range that allows complete power quality analysis and energy efficiency evaluations.
Equipped with touchscreen color display for simplified access to the device and with Bluetooth module for smart commissioning.

Communication protocol	I/O	Bbn 8012542 EAN	Order details		Weight 1 piece kg	Pack unit pc.
			Type code	Order code		
BLE, Modbus RTU	4 Progr. I/O	747611	M4M 30 Modbus	2CSG274761R4051	0,400	1
BLE, Modbus TCP/IP	4 Progr. I/O	746812	M4M 30 Ethernet	2CSG274681R4051	0,400	1
BLE, Profibus DP-V0	4 Progr. I/O	367918	M4M 30 Profibus	2CSG236791R4051	0,400	1
BLE, BACnet/IP	4 Progr. I/O	024514	M4M 30 Bacnet	2CSG202451R4051	0,400	1
BLE, Modbus RTU	6 Progr. I/O, 2 Analogue out.	024712	M4M 30 I/O	2CSG202471R4051	0,400	1
MID BLE, Modbus RTU	4 Progr. I/O	390350	M4M 30-M MODBUS	2CSG239035R4051	0,400	1
MID BLE, Modbus TCP/IP	4 Progr. I/O	390459	M4M 30-M ETHERNET	2CSG239045R4051	0,400	1

Energy efficiency
Network analyzers



M4M 30 - Rogowski version

M4M 30 is also available as compatible with ABB's R4M Rogowski coils for current measurement, increasing the flexi-bility of network analyzers and allowing retrofit in any existing installations. M4M 30 Rogowski together with R4M coils ensure integration of complete PQ analysis in any existing system with 0 downtime.

Communication protocol	I/O	Bbn 8012542	Order details		Weight 1 piece	Pack unit
		EAN	Type	Order code	kg	pc.
BLE, Modbus RTU	4 Progr. I/O	024613	M4M 30 Rogowski	2CSG202461R4051	0.400	1



R4M ROGOWSKI COILS

R4M Rogowski coils are flexible current transformer based on Rogowski technology, ideal to retrofit existing installa-tions up to 12kA. Available in two different sizes (80mm or 200mm diameters), R4M coils are directly equipped with pre-wired removable terminals that perfectly fit M4M 20 Rogowski (3 Rogowski coil inputs) and M4M 30 Rogowski (4 Rogowski coil inputs), with no need for external integrators.

Diameter (mm)	Bbn 8012542	Order details		Weight 1 piece	Pack unit
	EAN	Type	Order code	kg	pc.
80	021605	R4M-80	2CSG202160R1101	0.150	1
200	021506	R4M-200	2CSG202150R1101	0.250	1



M4M 2X

M4M 2X is ABB's network analyzer range that ensuring higher flexibility to project specifications compared to standard network analyzers. M4M 2X is available without display, only communicating via protocols and Bluetooth module for smart remote commissioning.

Communication protocol	I/O	Func-tionality package	Bbn 8012542 EAN	Order details		Weight 1 piece kg	Pack unit pc.
				Type code	Order code		
BLE, Modbus RTU	2 Digital out.	2X	601111	M4M 2X Modbus	2CSG260111R4051		
BLE, Modbus TCP/IP	2 Digital out.	2X	600619	M4M 2X Ethernet	2CSG260061R4051		
BLE, Modbus RTU	2 Digital out.	2X+PQ1	390756	M4M 2X Modbus PQ1	2CSG239075R4051		
BLE, Modbus TCP/IP	2 Digital out.	2X+PQ1	391258	M4M 2X Ethernet PQ1	2CSG239125R4051		
BLE, Modbus RTU	2 Digital out.	2X+PQ2	390855	M4M 2X Modbus PQ2	2CSG239085R4051		
BLE, Modbus TCP/IP	2 Digital out.	2X+PQ2	391357	M4M 2X Ethernet PQ2	2CSG239135R4051		
BLE, Modbus RTU	4 Progr. I/O	2X+RTS	390954	M4M 2X Modbus RTS	2CSG239095R4051		
BLE, Modbus TCP/IP	4 Progr. I/O	2X+RTS	391456	M4M 2X Ethernet RTS	2CSG239145R4051		
BLE, Modbus RTU	4 Progr. I/O	2X+PQ1 +RTS	391050	M4M 2X Modbus PQ1+RTS	2CSG239105R4051		
BLE, Modbus TCP/IP	4 Progr. I/O	2X+PQ1 +RTS	391555	M4M 2X Ethernet PQ1+RTS	2CSG239155R4051		
BLE, Modbus RTU	4 Progr. I/O	2X+PQ2 +RTS	391159	M4M 2X Modbus PQ2+RTS	2CSG239115R4051		
BLE, Modbus TCP/IP	4 Progr. I/O	2X+PQ2 +RTS	391654	M4M 2X Ethernet PQ2+RTS	2CSG239165R4051		

Energy efficiency
DMTME multimeters



DMTME

1.3 mm			
Auxiliary supply	[V rms]	230 +15% - 10% DMTME, DMTME-72 and DMTME-96	
[V rms]		400 +15% - 10% DMTME-72	
[V rms]		115 +15% - 10% DMTME , DMTME-96	
Frequency	[Hz]	45…65	
Power consumption	[VA]	<6	
Fuse protection		T0.1A	
Voltage measuring inputs			
Range	[V rms]	From 10 to 500 V AC phase to neutral; From 17 to 865 V AC phase to phase.	
Max. non destructive	[V rms]	550	
Impedance (L-N)	[MΩ]	>8	
Current measuring inputs (only external CTs .../5 A)			
Range	[A rms]	0.05…5	
Overload		1.1 permanent	
Measurement accuracy			
Voltage		±0.5% F.S. ±1 digit in range	
Current		±0.5% F.S. ±1 digit in range	
Active power		±1% ±0.1% F.S. from cosφ = 0.3 to cosφ = -0.3	
Frequency		±0.2% ±0.1Hz from 40.0 to 99.9 Hz	
		±0.2% ±1Hz from 100 to 500 Hz	
Energy metering			
Maximum metered value for single phase		4,294.9 MWh (MVarh) with KA = KV = 1	
Maximum metered value for three phase		4,294.9 MWh (MVarh) with KA = KV = 1	
Accuracy		Class 1	
Max. power consumption	[VA]	1.4 for each input (with Imax = 5A rms)	
Digital outputs			
Pulse duration		50 ms OFF (min)/ 50 ms ON	
Vmax on contact		48 V (d.c. or a.c. peak)	
Wmax dissipation		450 mW	
Max frequency		10 pulses/sec	
Imax contact		100 mA (d.c. or a.c. peak value)	
Insulation		750 Vmax	
Programmable parameters			
kVT transformer ratio Vprim/Vsec		1…500	
kCT transformer ratio Iprim/Isec		1…1,250	
Free hour counter	[h]	0…10,000,000, resettable	
Countdown	[h]	1…32,000	
Operating temperature	[°C]	0…+50	
Storage temperature	[°C]	-10…+60	
Relative humidity		90% max. (non condensing) at 40°C	
Overall dimensions	[mm]	105x90x58	DMTME
	[mm]	96x96x103	DMTME-96
	[mm]	72x72x90	DMTME-72

Energy efficiency
DMTME multimeters



DMTME



DMTME-96



DMTME-72

DMTME multimeters

The instruments DMTME are digital multimeters that allow the measurement, in TRMS mode, of the principal electrical parameters in three-phase and single-phase 110/230/400 Vac networks, including the max/min/average detection of the main electrical parameters and the active and reactive energy count. The multiple measured variables are displayed locally on four red 7-segment LED displays providing easy readability and simultaneous display of the measures of the electrical parameters of the phases individually and of the whole network.

The instruments DMTME combine, in a single instrument, the functions of multiple devices: voltmeter, ammeter, power factor meter, wattmeter, varmeter, frequency meter, active and reactive energy meters; it allows remarkable financial savings thanks to the reduction of space taken up in the panel and also of time required for cabling, along with the advantage of providing clear readings on a single device.

The DMTME-I-485, DMTME-I-485-96 and DMTME-I-485-72 models are additionally equipped with two digital outputs, fully programmable as either pulse outputs for remote metering of energy consumption, or as alarm outputs. The output relay can be set as NO or NC. Communication over Modbus RTU protocol is possible through the RS485 serial port. All versions come complete with Mini CD containing the instruction manual, technical documentation, Modbus communication protocol and the DMTME-SW tool, intended to be a first-hand PC-based application for the remote visualization of the measures.

DMTME modular multimeters

Auxiliary supply 230 V a.c. and 110 V a.c.

RS485 serial port	Program. digital output	Bbn 8012542	Order details		Weight 1 piece	Pack unit
		EAN	Type code	Order code	kg	pc.
-	-	975700	DMTME	2CSM170040R1021	0.450	1
■	2	975809	DMTME-I-485	2CSM180050R1021	0.450	1

DMTME-96 panel multimeters

Auxiliary supply 230 V a.c. and 110 V a.c. Dimensions 96x96 mm

RS485 serial port	Program. digital output	Bbn 8012542	Order details		Weight 1 piece	Pack unit
		EAN	Type code	Order code	kg	pc.
-	-	046752	DMTME-96	2CSG133030R4022	0.450	1
■	2	046851	DMTME-I-485-96	2CSG163030R4022	0.450	1

DMTME-72 panel multimeters

Auxiliary supply 230 V a.c. and 400 V a.c. Dimensions 72x72 mm

RS485 serial port	Program. digital output	Bbn 8012542	Order details		Weight 1 piece	Pack unit
		EAN	Type code	Order code	kg	pc.
-	-	046554	DMTME-72	2CSG132030R4022	0.450	1
■	2	046653	DMTME-I-485-72	2CSG162030R4022	0.450	1

Energy efficiency
IP Switches



IS/S 8.1.1

IP Switch, 8 Ports, Fast Ethernet, MDRC **NEW**

The IP Switch is an industrial-grade, 8 Ports, Fast Ethernet (100 Mbit/s), unmanaged switch with plug-and-play capabilities, designed for installation in electrical distribution boards and small housings for rapid mounting on 35mm DIN rails (to EN 60715).

Description	Mod. width	Order details		Weight 1 piece	Pack unit
		Type code	Order code	kg	pc.
	8	IS/S 8.1.1	2CDG120082R0011	0.25	1



ISP/S 8.1.1.1

IP Switch PoE, 8 Ports, Fast Ethernet, 55W, MDRC **NEW**

The IP Switch PoE is an industrial-grade, 8 Ports, Fast Ethernet (100 Mbit/s), PoE (55 W), unmanaged switch with plug-and-play capabilities, designed for installation in electrical distribution boards and small housings for rapid mounting on 35mm DIN rails (to EN 60715).

Description	Mod. width	Order details		Weight 1 piece	Pack unit
		Type code	Order code	kg	pc.
	12	ISP/S 8.1.1.1	2CDG120083R0011	0.41	1

Energy meters

ABB EQ Meters. The details make the difference



Energy efficiency

ABB EQ meters. The details make the difference.

A series

Key applications

- Facility management installations
- Critical power
- Production lines
- System solutions
- Power quality
- Etc.

Key performance

Single phase or three phase
Direct connected up to 80 A or transformer current- and/or voltage transformers (CTVT)
Active energy measurement
- Class B (Cl. 1) or
- Class C (Cl. 0,5 S) on CTVT connected meters

Wide voltage range
- 100 - 690 V phase to phase
- 57,7 - 400 V phase to neutral

Alarm functions
MID (Module B and D)
Reactive energy measurement
Import/export measurement of energy
Optional communication
- via M-Bus or
- RS-485 (For Modbus RTU or EQ bus)

4 tariffs controlled by inputs,
- communication or
- built-in clock

Previous values by
- day or
- week or
- month

Demand measurement (per period)
- 3 maximum
- 1 minimum

Load profiles
- 8 channels independently configurable
- 40 000 values total

Harmonics measurement up to 16th harmonic
- Current
- Voltage
- and evaluation of THD

Pulse outputs (S0 compatible)

Instrumentation

The A series meters support reading of instrument values. A large number of electrical properties can be read. Depending on version of the meter the following data is available:
- Active power
- Apparent power
- Reactive power
- Current
- Voltage
- Frequency
- Power factor
- Harmonics (Current and Voltage)
- Total harmonic distortion

B series

Key applications

- Cost transfer/billing
- Solar power
- EV chargers
- Elevators/escalators
- Lighting
- Installation beside machines
- Etc.

Key performance

Single phase or three phase
Direct connected up to 65 A or CT connected (three phase types)
Active energy measurement
- Class B (Cl. 1) or
- Class C (Cl. 0,5 S) on CT connected meters

Alarm functions
MID (Module B and D)
Reactive energy measurement
Import/export measurement of energy
- Optional communication via via M-Bus or
- RS-485 (For Modbus RTU or EQ bus)

4 tariffs controlled by
- input or
- communication

Pulse outputs (S0 compatible)

Instrumentation

The B series meters support reading of instrument values.
A large number of electrical properties can be read. Depending on version of the meter the following data is available:
- Active power
- Apparent power
- Reactive power
- Current
- Voltage
- Frequency
- Power factor

C series

Key applications

- HVAC applications
- Stand-alone applications
- Domestic applications
- Camping and Marinas
- Etc.

Key performance

Single phase or three phase
Very compact
- 1 & 3 modules.

Direct connected up to 40 A
Active energy measurement
Accuracy class 1
Alarm functions
MID (Module B and F) as option
Pulse output (S0 compatible)

Instrumentation

The C series meters support reading of instrument values. A number of electrical properties can be read:
- Power factor
- Active power
- Current
- Voltage

Energy efficiency

ABB EQ meters selection guide

How do I select the best meter for my application?

There are many versions of ABB EQ Meters in order to meet your requests. The EQ program comprises meters with different functionalities such as tariffs, communication interfaces or advanced clock functions. Spend a little time to evaluate the functions and imagine how they could add extra value to your metering. For example, the input counter (from Silver level) on an EQ meter can be used to count products produced by a machine and be read out together with the energy consumption of the same machine. In one easy go you can allocate energy to any produced product from one source. Another useful function is previous values (from Gold level). If you charge users in intervals the meter can secure the data even in the event of a broken communication link. You can collect the correct interval data later and also make it visible for your counterpart immediately on the meters display in case of any discussions.

STEEL	BRONZE	SILVER	GOLD	PLATINUM
	STEEL +	BRONZE +	SILVER +	GOLD +
• Active energy • Class 1 • Pulse Output • Alarm	• Reactive energy • Apparent energy • Import/Export energy • Alarm	• Class 0.5 or 1 • Resettable energy register • Tariffs • Fixed I/O	• Clock Functions - Tariff Control - Previous Value - Max/min demand - Event log	• Harmonics • Configurable I/O • Advanced clock funcitons (load profiles)

Function	Single phase				Three phase				
	C11	B21	A41	A42	C13	B23	B24	A43	A44
Direct connected	1	1 3	1 3 4		1	1 2 3		1 2 3 5	
Transformer connected				1 3 5			1 2 3		1 2 3 4 5
2 element metering						1 2 3	1 2 3	1 2 3 5	1 2 3 4 5
3 element metering					1	1 2 3	1 2 3	1 2 3 5	1 2 3 4 5
Accuracy 1 %, Class 1, Class B	1	1 3	1 3 4	1 3	1	1 2 3	1 2	1 2 3 5	1 2 3
Accuracy 0.5 %, Class 0,5 S, Class C					5		3		3 4 5
Active energy	1	1 3	1 3 4	1 3 5	1	1 2 3	1 2 3	1 2 3 5	1 2 3 4 5
Reactive energy		3	3 4	3 5		2 3	2 3	2 3 5	2 3 4 5
Apparent energy		3	3 4	3 5		2 3	2 3	2 3 5	2 3 4 5
Import/Export energy		3	3 4	3 5		2 3	2 3	2 3 5	2 3 4 5
Tariff registers, 1-4		3	3 4	3 5		3	3	3 5	3 4 5
Instrument values	1	1 3	1 3 4	1 3 5	1	1 2 3	1 2 3	1 2 3 5	1 2 3 4 5
Alarm function	1	1 3	1 3 4	1 3 5	1	1 2 3	1 2 3	1 2 3 5	1 2 3 4 5
Harmonics, 2th-16th and THD					5			5	5
Previous values - day, week, month			4		5			5	4 5
Max and min demand			4		5			5	4 5
Load profiles - 8 channels					5			5	5
Pulse output	1	1	1	1	1	1 2	1 2	1 2	1 2
I/O board - 2 in, 2 out		3	3 4	3		3	3	3	3 4
Configurable I/O - 4 I/O channels					5			5	5
Tariffs controlled by input		3	3 4	3 5		3	3	3 5	3 4 5
Tariffs controlled by communication		3	3 4	3 5		3	3	3 5	3 4 5
Tariffs controlled by clock			4	5				5	4 5
MID approved, verified	optional	1 3	1 3 4	1 3 5	optional	1 2 3	1 2 3	1 2 3 5	1 2 3 4 5
IEC approved	1	1 3	1 3 4	1 3 5	1	1 2 3	1 2 3	1 2 3 5	1 2 3 4 5
Communication - Infrared (M-Bus)		1 3	1 3 4	1 3 5		1 2 3	1 2 3	1 2 3 5	1 2 3 4 5
Communication - M-Bus		optional	optional	optional		optional	optional	optional	optional
Communication - RS-485 Modbus		optional	optional	optional		optional	optional	optional	optional
Communication - RS-485 EQ bus		optional	optional	optional		optional	optional	optional	optional

1 = Steel
2 = Bronze
3 = Silver
4 = Gold
5 = Platinum
□ = Not available

Optional = Available on some order codes

Notes

Energy efficiency

ABB EQ meters selection table







	C11	C13	B21	B23	B24
Mechanical properties					
DIN modules	1	3	2	4	4
Overall Dimensions	17,5 x 111 x 65 mm	54 x 122 x 65 mm	35 x 97 x 65 mm	70 x 97 x 65 mm	70 x 97 x 65 mm
Display	LCD	LCD	Backlit LCD	Backlit LCD	Backlit LCD
Voltage/current inputs					
Operating voltage	230 V AC	3x220–240 VAC	220-240 VAC	3x220-240 V AC	3x220-240 V AC
Maximum current	40 A	40 A	65 A	65 A	6 A
Rated frequency	50 Hz or 60 Hz	50 Hz or 60 Hz	50 Hz or 60 Hz	50 Hz or 60 Hz	50 Hz or 60 Hz
Connection type	Single-phase	Three-phase	Single-phase	Three-phase	Three-phase
Direct connection	■	■	■	■	-
Indirect connection via CT	-	-	-	-	■
Indirect connection via VT	-	-	-	-	-
Measurements					
Active energy	■	■	■	■	■
Reactive energy	-	-	□	□	□
Apparent energy	-	-	□	□	□
Import/export	-	-	□	□	□
Voltage	■	■	■	■	■
Current	■	■	■	■	■
Frequency	■	■	■	■	■
Active power	■	■	■	■	■
Power Factor	■	■	■	■	■
Harmonics analysis	-	-	-	-	-
Accuracy					
Active energy class	Cl. 1	Cl. 1	Cl. 1	Cl. 1	Cl. 1 or Cl. 0,5 S
Functions					
Tariffs registers, 1-4	-	-	□	□	□
Alarms	■	■	■	■	■
Max/Min demand	-	-	-	-	-
Load profiles	-	-	-	-	-
Event logs					
Communication					
Pulse Output (1 PO)	■	■	■	■	■
Digital I/O (2 DI / 2 DO)	-	-	□	□	□
Progr. I/O (4 I/O channels)	-	-	-	-	-
Infrared M-Bus	-	-	■	■	■
M-Bus	-	-	□	□	□
RS-485 Modbus	-	-	□	□	□
RS-485 EQ bus	-	-	□	□	□

■ Standard feature
□ Optional feature according to order codes or meter function level (see table at p. 18)






A41	A42	A43	A44
4	4	7	7
70 x 97 x 65 mm	70 x 97 x 65 mm	123 x 97 x 65 mm	123 x 97 x 65 mm
Backlit Pixel LCD	Backlit Pixel LCD	Backlit Pixel LCD	Backlit Pixel LCD
57.7 - 288 V AC	57.7 - 288 V AC	3x57.7-288/100-500 V AC	3x57.7-288/100-500 V AC (3x57.7-400/100-690 V AC on A44 xxx-x1x)
80 A	6 A	80 A	6 A
50 Hz or 60 Hz	50 Hz or 60 Hz	50 Hz or 60 Hz	50 Hz or 60 Hz
Single-phase	Single-phase	Three-phase	Three-phase
■	-	■	-
-	■	-	■
-	■	-	■
■	■	■	■
□	□	□	□
□	□	□	□
□	□	□	□
■	■	■	■
■	■	■	■
■	■	■	■
■	■	■	■
■	■	■	■
□	□	□	□
Cl. 1	Cl. 1 or Cl. 0,5 S	Cl. 1	Cl. 1 or Cl. 0,5 S
□	□	□	□
■	■	■	■
□	□	□	□
□	□	□	□
■	■	■	■
□	□	□	□
-	□	□	□
■	■	■	■
□	□	□	□
□	□	□	□
□	□	□	□

*) The pulse output can be assigned as an output if it is not used for pulses . You can only have one set of Digital I/O features per EQ meter.

Energy efficiency

ABB EQ meters A series





	A41	A42
Voltage/current inputs		
Nominal voltage	230 V AC	230 V AC
Voltage range	57.7 - 288 V AC (-20% - +15%)	57.7 - 288 or 100 ... 288 V AC (-20% - +15%)
Power dissipation voltage circuits	1.5 VA (0.6 W) total at 230 V AC	1.5 VA (0.6 W) total at 230 V AC
Power dissipation current circuits	0.006 VA (0.006 W) at I_{ref} and I_b	0.001 VA (0.001 W) at I_{ref} and I_n
Base current I_b	5 A	-
Rated current I_n	-	1 A
Reference current I_{ref}	5 A	1 A
Transitional current I_{tr}	0.5 A	0.05 A
Maximum current I_{max}	80 A	6 A
Minimum current I_{min}	0.25 A	0.02 A
Starting current I_{st}	< 20 mA	< 1 mA
Terminal wire area	1 - 25 mm^2	0.5 - 10 mm^2
Recommended tightening torque	2 Nm	1.2 Nm
Communication		
Terminal wire area	0.5 - 1 mm^2	-
Recommended tightening torque	0.25 Nm	-
Transformer ratios		
Configurable current ratio (CT)	-	1/9 - 9999/1
Configurable voltage ratio (VT)	-	1/999 - 999999/1
Pulse indicator (LED)		
Pulse frequency	1000 imp/kWh	5000 imp/kWh
Pulse length	40 ms	40 ms
Frequency	50 or 60 Hz ± 5%	50 or 60 Hz ± 5 % (or 16.7 Hz optional)
Accuracy Class	B (Cl.1) and Reactive Cl. 2	B (Cl.1), C (Cl. 0,5 S) and Reactive Cl. 2
Active energy	1%	0.5%, 1%
Display of energy	Pixel oriented display (LCD)	Same for all the meters in the table
Environmental		
Operating temperature	-40°C - +70°C	-40°C - +70°C
Storage temperature	-40°C - +85°C	-40°C - +85°C
Humidity	75% yearly average, 95% on 30 days/year	75% yearly average, 95% on 30 days/year
Resistance to fire and heat	Terminal 960°C, cover 650°C (IEC 60695-2-1)	Terminal 960°C, cover 650°C (IEC 60695-2-1)
Resistance to water and dust	IP20 on terminal block without protective enclosure and IP51 in protective enclosure, according to IEC 60529.	IP20 on terminal block without protective enclosure and IP51 in protective enclosure, according to IEC 60529.
Mechanical environment	Class M2 in accordance with the Measuring Instrument Directive (MID). (2014/32/EU).	Class M2 in accordance with the Measuring Instrument Directive (MID). (2014/32/EU).
Electromagnetic environment	Class E2 in accordance with the Measuring Instrument Directive (MID), (2014/32/EU).	Class E2 in accordance with the Measuring Instrument Directive (MID), (2014/32/EU).

*) For 690 V AC meters:
Power dissipation voltage circuits 2.2 VA (1.0 W) total at 230 V AC
Power dissipation current circuits 0.001 VA 0.001 W) per phase at Iref and In





A43	A44
3x230/400 V AC	3x230/400 V AC
3x57.7/100 ... 288/500 V AC (-20% - +15%)	3x57.7/100 ... 288/500 (-20% - +15%)
1.8 VA (0.8 W) total at 230 V AC	1.8 VA (0.8 W) total at 230 V AC
0.006 VA (0.006 W) per phase at I_{ref}	0.001 VA (0.001 W) at I_{ref} and I_n*
5 A	-
-	1 A
5 A	1 A
0.5 A	0.05 A
80 A	6 A
0.25 A	0.01 A
< 20 mA	< 1 mA
1 - 25 mm^2	0.5 - 10 mm^2
2 Nm	1.2 Nm
0.5 - 1 mm^2	0.5 - 1 mm^2
0.25 Nm	0.25 Nm
-	1/9 - 9999/1
-	1/999 - 999999/1
1000 imp/kWh	5000 imp/kWh
50 or 60 Hz ± 5 %	50 or 60 Hz ± 5 %
-	-
A (Cl.2), B (Cl.1) and Reactive Cl. 2	B (Cl.1), C (Cl. 0,5 S) and Reactive Cl. 2
1%	0.5%, 1%
Same for all the meters in the table	Same for all the meters in the table
-40°C - +70°C	-40°C - +70°C
-40°C - +85°C	-40°C - +85°C
75% yearly average, 95% on 30 days/year	75% yearly average, 95% on 30 days/year
Terminal 960°C, cover 650°C (IEC 60695-2-1)	Terminal 960°C, cover 650°C (IEC 60695-2-1)
IP20 on terminal block without protective enclosure and IP51 in protective enclosure, according to IEC 60529.	IP20 on terminal block without protective enclosure and IP51 in protective enclosure, according to IEC 60529.
Class M2 in accordance with the Measuring Instrument Directive (MID). (2014/32/EU).	Class M2 in accordance with the Measuring Instrument Directive (MID). (2014/32/EU).
Class E2 in accordance with the Measuring Instrument Directive (MID), (2014/32/EU).	Class E2 in accordance with the Measuring Instrument Directive (MID), (2014/32/EU).

Energy efficiency
EQ meters A series

The A series meters ranges from single phase to three phase meters and from basic up to advanced functionality without any comparison. The A series meters are mounted on a DIN rail and are suitable for installation in distribution boards and small enclosures such as consumer units. With the main terminals in accordance with DIN 43857 and accessible from the below the meters, the A series is suitable for many applications.

The low rated or base currents of these products ensures high dynamic performance with superior accuracy even at low currents. The meters support a wide voltage range as well as a wide temperature range. The display is pixel-oriented and can display up to four quantities at the same time. Navigating the meter is easily done via the push-buttons below the display. To configure the meter settings, the set button must be accessed and this
button is protected against unauthorized use when the “glass lid” on the front of the meter is closed and sealed. The exceptional low power consumption of the meters makes them economical in the long run - an important feature specially for large meter populations.

Data from the A series meters can be collected via pulse output or serial communication. The pulse output is a solid state relay that generates pulses proportionally to the measured energy. The meters can also be equipped with built-in serial communication interfaces for M-Bus or Modbus RTU (RS-485). Meters with RS-485 interface can also be set to communicate over the new EQ bus with the gateway G13. All meters in the A series come with an infrared port for communication with an external Serial Communication Adapter (SCA) such as the KNX adapter.

A series supports following instrumentation values dependent on version of meter:
- Active energy
- Current
- Voltage
- Power factor
- Reactive power
- Total harmonic distortion
- Apparent power
- Frequency
- Harmonics

A series meters with a functionality level of Gold or Platinum have an internal clock for advanced functionality:
- Event log
- Previous values
- Load profile
- Maximum and minimum demand

The tariffs are controlled via inputs, via communication or via an internal clock in Gold and Platinum versions.

The A series support up to four I/O’s. It can be two inputs and two outputs in a fixed configuration or four I/O points that are freely configured to input or output. Inputs can be used for counting pulses from e.g. a water meter, or reading status from external devices. Outputs can be used as pulse outputs or controlling external apparatus like
a contactor or an alarm (connected via an external relay). The I/O’s need an external voltage supply. The A series meters are type approved according to IEC and they are both type approved and verified according to MID. MID is the Measuring Instruments Directive 2014/32/EU from the European Commission. MID type approval and verification is mandatory for meters in billing applications within EU and EEA. The type approval is according to standards that covers all relevant technical aspects of the meter. These include climate conditions, electromagnetic compatibility (EMC), electrical requirements, mechanical requirements and accuracy.

Energy efficiency

ABB EQ meters A series



A series

Technical features		
Outputs		
Type	Transistor or MOSFET	
Current	2 - 100 mA	
Voltage	5 - 240 V AC/DC. For meters with only 1 output, 5 - 40 V DC.	
Pulse output frequency	Programmable: 1 - 999999 imp/kWh	
Pulse length	Programmable: 10 - 990 ms	
Terminal wire area	0.5 - 1 mm^2	
Recommended tightening torque	0.25 Nm	
Inputs		
Voltage	0 - 240 V AC/DC	
OFF	0 - 5 V AC/DC	
ON	57 - 240 V AC/24 - 240 V DC	
Min. pulse lenght	30 ms	
Terminal wire area	0.5 - 1 mm^2	
Recommended tightening torque	0.25 Nm	
EMC compatibility		
Impulse voltage test	6 kV 1.2/50 µs (IEC 60060-1)	
Surge voltage test	4 kV 1.2/50 µs (IEC 61000-4-5)	
Fast transient burn test	4 kV (IEC 61000-4-4)	
Immunity to electromagnetic HF-fields	80 MHz - 2 GHz at 10 V/m (IEC 61000-4-3)	
Immunity to conducted disturbance	150 kHz - 80 MHz, (IEC 61000-4-6)	
Immunity to disturbance with harmonics	2kHz - 150kHz	
Radio frequency emission	EN 55022, class B (CISPR22)	
Electrostatic discharge	15 kV (IEC 61000-4-2)	
Standards	EC 62052-11, IEC 62053-21 class 1 & 2, IEC 62053-22 class 0,5 S, IEC 62053-23 class 2, IEC 62054-21, GB/T 17215.211-2006, GBT 17215.321-2008 class 1 & 2, GB/T 17215.322-2008 class 0,5 S, GB 4208-2008, EN 50470-1, EN 50470-3 category A, B & C EQ meters.	
Mechanical		
Material	Polycarbonate in transparent front glass, bottom case, upper case and terminal cover, Glass reinforced polycarbonate in terminal block.	
Dimensions	**A41 / A42**	**A43 / A44**
Width	70 mm	123 mm
Height	97 mm	97 mm
Depth	65 mm	65 mm
DIN modules	4	7

Energy efficiency

EQ meters A series



A41

Direct connected electricity meter up to 80 A. Verified and approved according to MID. IEC approval.Instrument values. Alarm function. Communication - Infrared (M-Bus). Optional - Communication with M-Bus, RS-485 Modbus, RS-485 EQ bus.

EQ meters single phase electricity meter, 4 DIN with IR port, 80 A

Class B (Cl. 1) with functionality level Steel. Active energy

Description	Bbn 7392696	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
57.7...288 V AC, Pulse output	705547	A41 111 - 100	2CMA170554R1000	0.230	1
57.7...288 V AC, Pulse output, RS-485	705004	A41 112 - 100	2CMA170500R1000	0.230	1
57.7...288 V AC, Pulse output, M-Bus	002400	A41 113 - 100	2CMA100240R1000	0.230	1

Class 1 (Reactive Class 2) with functionality level Silver. Active and reactive energy, import/export, tariffs 1-4, tariff controll via inputs and communication.

Description	Bbn 7392696	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
57.7...288 V AC, 2 output, 2 input, RS-485	705035	A41 312 - 100	2CMA170503R1000	0.230	1
57.7...288 V AC, 2 output, 2 input. M-Bus	705042	A41 313 - 100	2CMA170504R1000	0.230	1

Class B (Cl. 1) (Reactive Cl. 2) with functionality level Gold. Active and reactive energy, import/export, tariffs 1-4, tariff controlled via inputs, communication or clock, previous values, max and min demand.

Description	Bbn 7392696	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
57.7...288 V AC, 2 output, 2 input, RS-485	705059	A41 412 - 100	2CMA170505R1000	0.230	1

Energy efficiency
EQ meters A series



A42

Transformer CTVT connected electricity meter up to 6 A. Verified and approved according to MID. IEC approval. Voltage V - 57...288 V AC. Instrument values. Alarm function. Communication - Infrared (M-Bus). Optional - Communication with M-Bus, RS-485 Modbus, RS-485 EQ bus.

EQ meters single phase electricity meter, 4 DIN with IR port, 6 A

Class B (Cl. 1) with functionality level Steel. Active energy

Description	Bbn 7392696	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
57.7...288 V AC, Pulse output	705554	A42 111 - 100	2CMA170555R1000	0.200	1
57.7...288 V AC, Pulse output, RS-485	705103	A42 112 - 100	2CMA170510R1000	0.200	1
57.7...288 V AC, Pulse output, M-Bus	002424	A42 113 - 100	2CMA100242R1000	0.200	1

Class B (Cl. 1) (Reactive Cl. 2) with functionality level Silver. Active and reactive energy, import/export, tariffs 1-4, tariff controll via inputs and communication.

Description	Bbn 7392696	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
57.7...288 V AC, 2 output, 2 input, RS-485	705127	A42 312 - 100	2CMA170512R1000	0.200	1

Class C (Cl. 0.5 S) (Reactive Cl. 2) with functionality level Platinum. Active and reactive energy, import/export, tariffs 1-4, tariff controlled via inputs, communication or clock, previous values, max and min demand, advanced load profiles, harmonics and THD. Versions for 16.7, 50 or 60 Hz.

Description	Bbn 7392696	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
57.7...288 V AC, Configurable 4 I/O channels, RS-485	002387	A42 552 - 100	2CMA100238R1000	0.200	1
100...288 V AC, Configurable 4 I/O channels, RS-485 16.7*, 50 or 60 Hz	705189	A42 552 - 120	2CMA100518R1000	0.200	1
100...288 V AC, Configurable 4 I/O channels, M-Bus 16.7*, 50 or 60 Hz	705196	A42 553 - 120	2CMA100519R1000	0.200	1

*) The meters are not tested and approved for placement on rolling stock.

Energy efficiency

EQ meters A series



A43

Direct connected electricity meter up to 80 A. Verified and approved according to MID. IEC approval. 2- and 3-element metering. Instrument values. Alarm function. Communication - Infrared (M-Bus). Optional - Communication with M-Bus, RS-485 Modbus, RS-485 EQ bus.

EQ meters three phase electricity meter, 7 DIN with IR port, 80 A

Class B (Cl. 1) with functionality level Steel. Active energy

Description	Bbn 7392696	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
3 x 57.7/100...288/500 V AC, Pulse output	705202	A43 111 - 100	2CMA170520R1000	0.440	1
3 x 57.7/100...288/500 V AC, Pulse output, RS-485	002448	A43 112 - 100	2CMA100244R1000	0.440	1
3 x 57.7/100...288/500 V AC, Pulse output, M-Bus	002455	A43 113 - 100	2CMA100245R1000	0.440	1

Class B (Cl. 1) (Reactive Cl. 2) with functionality level Bronze. Active and reactive energy, import/export.

Description	Bbn 7392696	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
3 x 57.7/100...288/500 V AC, Pulse output, RS-485	705226	A43 212 - 100	2CMA170522R1000	0.440	1
3 x 57.7/100...288/500 V AC, Pulse output, M-Bus	705233	A43 213 - 100	2CMA170523R1000	0.440	1

Class B (Cl. 1) (Reactive Cl. 2) with functionality level Silver. Active and reactive energy, import/export, tariffs 1-4, tariff controll via inputs and communication.

Description	Bbn 7392696	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
3 x 57.7/100...288/500 V AC, 2 output, 2 input, RS-485	705257	A43 312 - 100	2CMA170525R1000	0.440	1
3 x 57.7/100...288/500 V AC, 2 output, 2 input, M-Bus	705264	A43 313 - 100	2CMA170526R1000	0.440	1

Class B (Cl. 1) (Reactive Cl. 2) with functionality level Platinum. Active and reactive energy, import/export, tariffs 1-4, tariff controlled via inputs, communication or clock, previous values, max and min demand, advanced load profiles, harmonics and THD.

Description	Bbn 7392696	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
3 x 57.7/100...288/500 V AC, Configurable 4 I/O channels, RS-485	705318	A43 512 - 100	2CMA170531R1000	0.440	1
3 x 57.7/100...288/500 V AC, Configurable 4 I/O channels, M-Bus	705325	A43 513 - 100	2CMA170532R1000	0.440	1

Energy efficiency
EQ meters A series



A44

Transformer CTVT connected electricity meter up to 6 A. Verified and approved according to MID. IEC approval. 2- and 3-element metering. Instrument values. Alarm function. Communication - Infrared (M-Bus). Optional - Communication with M-Bus, RS-485 Modbus, RS-485 EQ bus.

EQ meters three phase electricity meter, 7 DIN with IR port, 6 A

Class B (Cl. 1) with functionality level Steel. Active energy

Description	Bbn 7392696	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
3 x 57.7/100...288/500 V AC, Pulse output	705332	A44 111 - 100	2CMA170533R1000	0.350	1
3 x 57.7/100...288/500 V AC, Pulse output, RS-485	002486	A44 112 - 100	2CMA100248R1000	0.350	1
3 x 57.7/100...288/500 V AC, Pulse output, M-Bus	002493	A44 113 - 100	2CMA100249R1000	0.350	1

Class B (Cl. 1) (Reactive Cl. 2) with functionality level Bronze. Active and reactive energy, import/export.

Description	Bbn 7392696	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
3 x 57.7/100...288/500 V AC, Pulse output	000130	A44 211 - 100	2CMA100013R1000	0.350	1
3 x 57.7/100...288/500 V AC, Pulse output, RS-485	705349	A44 212 - 100	2CMA170534R1000	0.350	1
3 x 57.7/100...288/500 V AC, Pulse output, M-Bus	705356	A44 213 - 100	2CMA170535R1000	0.350	1

Class B (Cl. 1) (Reactive Cl. 2) with functionality level Silver. Active and reactive energy, import/export, tariffs 1-4, tariff controll via inputs and communication.

Description	Bbn 7392696	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
3 x 57.7/100...288/500 V AC, 2 output, 2 input	705363	A44 311 - 100	2CMA170536R1000	0.350	1

Class C (Cl. 0.5 S) (Reactive Cl. 2) with functionality level Silver. Active and reactive energy, import/export, tariffs 1-4, tariff controll via inputs and communication.

Description	Bbn 7392696	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
3 x 57.7/100...288/500 V AC, 2 output, 2 input, RS-485	705370	A44 352 - 100	2CMA170537R1000	0.350	1
3 x 57.7/100...288/500 V AC, 2 output, 2 input, M-Bus	705387	A44 353 - 100	2CMA170538R1000	0.350	1

Class C (Cl. 0.5 S) (Reactive Cl. 2) with functionality level Gold. Active and reactive energy, import/export, tariffs 1-4, tariff controlled via inputs, communication or clock,previous values, max and min demand.

Description	Bbn 7392696	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
3 x 57.7/100...288/500 V AC, 2 output, 2 input, RS-485	705400	A44 452 - 100	2CMA170540R1000	0.350	1

Class C (Cl. 0.5 S) (Reactive Cl. 2) with functionality level Platinum. Active and reactive energy, import/export, tariffs 1-4, tariff controlled via inputs, communication or clock, previous values, max and min demand, advanced load profiles, harmonics and THD.

Description	Bbn 7392696	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
3 x 57.7/100...288/500 V AC, Configurable 4 I/O channels, RS-485	705455	A44 552 - 100	2CMA170545R1000	0.350	1
3 x 57.7/100...288/500 V AC, Configurable 4 I/O channels, M-Bus	705462	A44 553 - 100	2CMA170546R1000	0.350	1
3 x 57.7/100...400/690 V AC, 1 input + 1 output, RS-485	705493	A44 552 - 110	2CMA170549R1000	0.350	1
3 x 57.7/100...400/690 V AC, 1 input + 1 output, M-Bus	705486	A44 553 - 110	2CMA170548R1000	0.350	1

Energy efficiency

EQ meters B series



	B21
Voltage/current inputs	
Nominal voltage	230 V AC
Voltage range	220...240 VAC (-20% - +15%)
Power dissipation voltage circuits	1.1 VA (0.5 W) total at 230 V AC
Power dissipation current circuits	0.012 VA (0.012 W) at I_{ref} and I_b
Base current I_b	5 A
Rated current I_n	-
Reference current I_{ref}	5 A
Transitional current I_{tr}	0.5 A
Maximum current I_{max}	65 A
Minimum current I_{min}	0.25 A
Starting current I_{st}	< 20 mA
Terminal wire area	1 - 25 mm^2
Recommended tightening torque	2 Nm
Communication	
Terminal wire area	0.5 - 1 mm^2
Recommended tightening torque	0.25 Nm
Transformer ratios	
Configurable current ratio (CT)	-
Pulse indicator (LED)	
Pulse frequency	1000 imp/kWh
Pulse length	40 ms
General data	
Frequency	50 or 60 Hz ± 5%
Accuracy Class	B (Cl. 1) and Reactive Cl. 2
Active energy	1%
Display of energy	6 digit LCD
Environmental	
Operating temperature	-40°C - +70°C
Storage temperature	-40°C - +85°C
Humidity	75% yearly average, 95% on 30 days/year
Resistance to fire and heat	Terminal 960 °C, cover 650°C (IEC 60695-2-1)
Resistance to water and dust	IP20 on terminal block without protective enclosure and IP51 in protective enclosure, according to IEC 60529.
Mechanical environment	Class M2 in accordance with the Measuring Instrument Directive (MID). (2014/32/EU).
Electromagnetic environment	Class E2 in accordance with the Measuring Instrument Directive (MID), (2014/32/EU).





B23	**B24**
3x230/400 V AC	3x230/400 V AC
3x220/380...240/415 VAC (-20% - +15%)	3x220/380...240/415 VAC (-20% - +15%)
1.7 VA (0.8 W) total at 230 V AC	1.7 VA (0.8 W) total at 230 V AC
0.007 VA (0.007 W) per phase at I_{ref} and I_b	0.0007 VA (0.0005 W) per phase at I_{ref} and I_n
5 A	-
-	1 A
5 A	-
0.5 A	0.05 A
65 A	6 A
0.25 A	0.02 A
< 20 mA	< 1 mA
1 - 25 mm²	0.5 - 10 mm²
2 Nm	1.2 Nm
0.5 - 1 mm²	0.5 - 1 mm²
0.25 Nm	0.25 Nm
-	1/9 - 9999/1
1000 imp/kWh	5000 imp/kWh
40 ms	40 ms
50 or 60 Hz ± 5%	50 or 60 Hz ± 5%
B (Cl. 1) or C (Cl. 0.5 S) and Reactive Cl. 2	
1%	0.5%, 1%
7 digit LCD	7 digit LCD
-40°C - +70°C	-40°C - +70°C
-40°C - +85°C	-40°C - +85°C
75% yearly average, 95% on 30 days/year	75% yearly average, 95% on 30 days/year
Terminal 960 °C, cover 650°C (IEC 60695-2-1)	Terminal 960 °C, cover 650°C (IEC 60695-2-1)
IP20 on terminal block without protective enclosure and IP51 in protective enclosure, according to IEC 60529.	IP20 on terminal block without protective enclosure and IP51 in protective enclosure, according to IEC 60529.
Class M2 in accordance with the Measuring Instrument Directive (MID). (2014/32/EU).	Class M2 in accordance with the Measuring Instrument Directive (MID). (2014/32/EU).
Class E2 in accordance with the Measuring Instrument Directive (MID), (2014/32/EU).	Class E2 in accordance with the Measuring Instrument Directive (MID), (2014/32/EU).

Energy efficiency
EQ meters B series

The EQ meters, B series is a range of meters for single phase and three phase metering. The B series meters are mounted on a DIN rail and are suitable for installation in distribution boards and small enclosures such as consumer units. The B series are suitable in applications where there is a need for reliable energy measurements and where space is limited.

The low rated or base currents of these products ensures high dynamic performance with superior accuracy even at low currents. The B series meters are meters for many applications and installations. Navigating the meter is easily done via the push-buttons below the display. To configure the meter settings, the set button must be accessed and this button is protected against unauthorized use when the “glass lid” on the front of the meter is closed and sealed. The exceptional low power consumption of the meters, less than 0.9 VA and 1.6 VA, makes them economical in the long run - an important feature specially for large meter populations.

Data from the B series meters can be collected via pulse output or serial communication. The pulse output is a solid state relay that generates pulses proportionally to the measured energy. The meters can also be equipped with built-in serial communication interfaces for M-Bus or Modbus RTU (RS-485). Meters with RS-485 interface can also be set to communicate over the new EQ bus with the new gateway G13. All meters in the B series come with an infrared port for communication with an external Serial Communication Adapter (SCA) such as the KNX adapter.

The B series meters support reading of instrument values. A large number of electrical properties can be read. Depending on version of the meter the following data is available:
- Active power
- Apparent power
- Reactive power
- Current
- Voltage
- Frequency
- Power factor

Up to 4 tariffs are controlled via inputs or communication.

The B series support two inputs and two outputs in a fixed configuration. Inputs can be used for counting pulses from e.g. a water meter, or reading status from external devices. Outputs can be used as pulse outputs or controlling external apparatus like a contactor or an alarm (connected via an external relay).

The B series meters are type approved according to IEC and they are both type approved and verified according to MID. MID is the Measuring Instruments Directive 2014/32/EU from the European Commission. MID type approval and verification is mandatory for meters in billing applications within EU and EEA. The type approval is according to standards that covers all relevant technical aspects of the meter. These include climate conditions, electromagnetic compatibility (EMC), electrical requirements, mechanical requirements and accuracy.

Energy efficiency

ABB EQ meters B series



B series

Technical features		
	B series	
Outputs		
Type	Transistor or MOSFET	
Current	2 - 100 mA	
Voltage	5 - 240 V AC/DC. For meters with only 1 output 5 - 40 VDC.	
Pulse output frequency	Programmable 1 - 999999 imp/kWh	
Pulse length	Programmable 10 - 990 ms	
Terminal wire area	0.5 - 1 mm^2	
Recommended tightening torque	0.25 Nm	
Inputs		
Voltage	0 - 240 V AC/DC	
OFF	0 - 5 V AC/DC	
ON	57 - 240 V AC/24 - 240 V DC	
Min. pulse length	30 ms	
Terminal wire area	0.5 - 1 mm^2	
Recommended tightening torque	0.25 Nm	
EMC compatibility		
Impulse voltage test	6 kV 1.2/50µs (IEC 60060-1)	
Surge voltage test	4 kV 1.2/50µs (IEC 61000-4-5)	
Fast transient burn test	4kV (IEC 61000-4-4)	
Immunity to electromagnetic HF-fields	80 MHz - 2 GHz (IEC 61000-4-6)	
Immunity to conducted disturbance	150kHz - 80MHz (IEC 61000-4-6)	
Immunity to disturbance with harmonics	2kHz - 150kHz	
Radio frequency emission	EN 55022, class B (CISPR22)	
Electrostatic discharge	15 kV (IEC 61000-4-2)	
Standards	IEC 62052-11, IEC 62053-21 class 1 & 2, IEC 62053-22 class 0,5 S, IEC 62053-23 class 2, IEC 62054-21, GB/T 17215.211-2006, GB/T 17215.312-2008 class 1 & 2, GB/T 17215.322-2008 class 0,5 S, GB 4208-2008, EN 50470-1, EN 50470-3 category A, B & C	
Mechanical		
Material	Polycarbonate in transparent front glass. Glass reinforced polycarbonate in bottom case and upper case. Polycarbonate in terminal cover.	
Dimensions	**B21**	**B23/B24**
Width	35 mm	70 mm
Height	97 mm	97 mm
Depth	65 mm	65 mm
DIN modules	2	4

Energy efficiency

EQ meters B series



B21

Direct connected electricity meter up to 65 A. Verified and approved according to MID. IEC approval. Instrument values. Alarm function. - Communication - Infrared (M-Bus). Optional - Communication with M-Bus, RS-485 Modbus, RS-485 EQ bus.

EQ meters single phase electricity meter, 2 DIN with IR port, 65 A

For direct connection up to 65 A. Class B (Cl. 1) with functionality level Steel.
Active energy

Description	Bbn	Order details		Weight	Pack
	7392696			1 piece	unit
	EAN	Type code	Order code	kg	pc.
1 x 230 V AC, Pulse output	001496	B21 111 - 100	2CMA100149R1000	0.140	1
1 x 230 V AC, Pulse output, RS-485	001502	B21 112 - 100	2CMA100150R1000	0.150	1
1 x 230 V AC, Pulse output, M-Bus	001519	B21 113 - 100	2CMA100151R1000	0.150	1

For direct connection up to 65 A. Class B (Cl. 1) (Reactive Cl. 2) with functionality level Silver.
Active and reactive energy, import/export, tariffs 1-4, tariff controll via inputs and communication.

Description	Bbn	Order details		Weight	Pack
	7392696			1 piece	unit
	EAN	Type code	Order code	kg	pc.
1 x 230 V AC, 2 output, 2 input	001540	B21 311 - 100	2CMA100154R1000	0.140	1
1 x 230 V AC, 2 output, 2 input, RS-485	001557	B21 312 - 100	2CMA100155R1000	0.150	1
1 x 230 V AC, 2 output, 2 input, M-Bus	001564	B21 313 - 100	2CMA100156R1000	0.150	1

Energy efficiency
EQ meters B series



B23

Direct connected electricity meter up to 65 A. Verified and approved according to MID. IEC approval. 2- and 3-element metering. Instrument values. Alarm function. Communication - Infrared (M-Bus). Optional - Communication with M-Bus, RS-485 Modbus, RS-485 EQ bus.

EQ meters three phase electricity meter, 4 DIN with IR port, 65 A

Class B (Cl. 1) with functionality level Steel.
Active energy

Description	Bbn 7392696 EAN	Order details Type code	Order code	Weight 1 piece kg	Pack unit pc.
3 x 230/400 V AC, Pulse output	001632	B23 111 - 100	2CMA100163R1000	0.310	1
3 x 230/400 V AC, Pulse output, RS-485	001649	B23 112 - 100	2CMA100164R1000	0.320	1
3 x 230/400 V AC, Pulse output, M-Bus	001656	B23 113 - 100	2CMA100165R1000	0.330	1

Class B (Cl. 1) (Reactive Cl. 2) with functionality level Bronze.
Active and reactive energy, import/export.

Description	Bbn 7392696 EAN	Order details Type code	Order code	Weight 1 piece kg	Pack unit pc.
3 x 230/400 V AC, Pulse output, RS-485	001663	B23 212 - 100	2CMA100166R1000	0.320	1

Class B (Cl. 1) (Reactive Cl. 2) with functionality level Silver.
Active and reactive energy, import/export, tariffs 1-4, tariff controll via inputs and communication.

Description	Bbn 7392696 EAN	Order details Type code	Order code	Weight 1 piece kg	Pack unit pc.
3 x 230/400 V AC, 2 output, 2 input	001687	B23 311 - 100	2CMA100168R1000	0.330	1
3 x 230/400 V AC, 2 output, 2 input, RS-485	001694	B23 312 - 100	2CMA100169R1000	0.340	1
3 x 230/400 V AC, 2 output, 2 input, M-Bus	001700	B23 313 - 100	2CMA100170R1000	0.350	1

Energy efficiency
EQ meters B series



B24

Transformer CT connected electricity meter up to 6 A. Verified and approved according to MID. IEC approval. 2- and 3-element metering. Instrument values. Alarm function. Communication - Infrared (M-Bus). Optional - Communication with M-Bus, RS-485 Modbus, RS-485 EQ bus.

EQ meters three phase electricity meter, 4 DIN with IR port, 6 A

Class B (Cl. 1) with functionality level Steel. Active energy

Description	Bbn 7392696 EAN	Order details Type code	Order code	Weight 1 piece kg	Pack unit pc.
3 x 230/400 V AC, Pulse output	001779	B24 111 - 100	2CMA100177R1000	0.250	1
3 x 230/400 V AC, Pulse output, RS-485	001786	B24 112 - 100	2CMA100178R1000	0.250	1
3 x 230/400 V AC, Pulse output, M-Bus	001793	B24 113 - 100	2CMA100179R1000	0.270	1

Class B (Cl. 1) (Reactive Cl. 2) with functionality level Bronze.
Active and reactive energy, import/export.

Description	Bbn 7392696 EAN	Order details Type code	Order code	Weight 1 piece kg	Pack unit pc.
3 x 230/400 V AC, Pulse output, RS-485	001809	B24 212 - 100	2CMA100180R1000	0.250	1

Class C (Cl. 0.5 S) (Reactive Cl. 2) with functionality level Silver.
Active and reactive energy, import/export, tariffs 1-4, tariff controll via inputs and communication.

Description	Bbn 7392696 EAN	Order details Type code	Order code	Weight 1 piece kg	Pack unit pc.
3 x 230/400 V AC, 2 output, 2 input, RS-485	001830	B24 352 - 100	2CMA100183R1000	0.270	1
3 x 230/400 V AC, 2 output, 2 input, M-Bus	001847	B24 353 - 100	2CMA100184R1000	0.290	1

Energy efficiency
EQ meters C series



C series

The EQ meters, C series are truly compact meters for single phase and three phase metering. The C series is mounted on a DIN rail and is suitable for installation in distribution boards and small consumer units.

Only one or three module wide, the C series is a very compact meter for single phase and three phase applications. The meters have an LCD with large digits showing energy register and instrumentation values. The meters have a wide temperature range which makes it possible to install the meters in many locations. Navigating the meters are easily done via the push-button below the display. The exceptional low power consumption of the meters, less than 0,3 W and 0,6 W at 230 V AC, makes them economical in the long run - an important feature specially for large meter populations.

The C series meters support reading of instrument values. A number of electrical properties can be read:
- Power factor
- Active power
- Current
- Voltage

The C series meters have an output that can be used as pulse output or alarm output. The alarm quantity and levels is easily configured on the meter with the push button. The output can be used for controlling external apparatus like a contactor or an alarm indicator (connected via an external relay).

The C series meters are type approved according to IEC and MID. MID is the Measuring Instruments Directive 2014/32/EU from the European Commission. The type approval is according to standards that covers all relevant technical aspects of the meter. These include climate conditions, electromagnetic compatibility (EMC), electrical requirements, mechanical requirements and accuracy.

MID versions have initial verification according to annex F of the Measuring Instruments Directive.

Energy efficiency

EQ meters C series





	C11	C13
Technical features		
Voltage/current inputs		
Nominal voltage	230 V AC	3x230/400 V AC
Voltage range	230 V AC (-20% - +15%)	3x230/400 V AC (-20% - +15%)
Power dissipation voltage circuits	7.4 VA (0.3 W) at 230 V	1.5 VA (0.6 W) total at 230 V
Power dissipation current circuits	0.04 VA (0.04 W) at I_b and I_{ref}	0.04 VA (0.04 W) per phase at I_b and I_{ref}
Base current I_b	5 A	5 A
Rated current I_n	-	-
Reference current I_{ref}	5 A	5 A
Transitional current I_{tr}	0.5 A	0.5 A
Maximum current I_{max}	40 A	40 A
Minimum current I_{min}	0.25 A	0.25 A
Starting current I_{st}	< 20 mA	< 20 mA
Terminal wire area	0.5 - 10 mm^2	0.5 - 10 mm^2
Recommended tightening torque	0.8 Nm	0.8 Nm
General data		
Frequency	50 or 60 Hz ± 5%	50 or 60 Hz ± 5%
Accuracy Class	B (Cl.1)	B (Cl.1)
Active energy	1%	1%
Display of energy	6 digit LCD	7 digits LCD
Communication		
Terminal wire area	-	-
Recommended tightening torque	-	-
Pulse indicator (LED)		
Pulse frequency	1000 (imp/kWh)	1000 (imp/kWh)
Pulse length	40 ms	40 ms
Environmental		
Operating temperature	- 25°C - +70°C	- 25°C - +70°C
Storage temperature	- 25°C - +85°C	- 25°C - +85°C
Humidity	75% yearly average, 95% on 30 days/year	75% yearly average, 95% on 30 days/year
Resistance to fire and heat	Terminal 960°C, cover 650°C (IEC 60695-2-1)	
Resistance to water and dust	IP20 on terminal block without protective enclosure and IP51 in protective enclosure, according to IEC 60529.	
Mechanical environment	Class M2 in accordance with the Measuring Instrument Directive (MID). (2014/32/EU).	
Electromagnetic environment	Class E2 in accordance with the Measuring Instrument Directive (MID), (2014/32/EU).	

Energy efficiency

EQ meters C series





	C11	C13
Technical features		
Outputs		
Type	Transistor	Transistor
Current	2 - 100 mA	2 - 100 mA
Voltage	5 - 40 V DC	5 - 40 V DC
Pulse output frequency	100 or 1000 (imp/kWh)	100 or 1000 (imp/kWh)
Pulse length	100 ms	100 ms
Terminal wire area	0.5 - 10 mm^2	0.5 - 6 mm^2
Recommended tightening torque	0.8 Nm	0.25 Nm
EMC compatibility		
Impulse voltage test	6 kV 1.2/50 µs (IEC 60060-1)	6 kV 1.2/50 µs (IEC 60060-1)
Surge voltage test	4 kV 1.2/50 µs (IEC 61000-4-5)	4 kV 1.2/50 µs (IEC 61000-4-5)
Fast transient burn test	4 kV (IEC 61000-4-4)	4 kV (IEC 61000-4-4)
Immunity to electromagneti HF-fields	80 MHz - 2 GHz at 10 V/m (IEC 61000-4-3)	80 MHz - 2 GHz at 10 V/m (IEC 61000-4-3)
Immunity to conducted disturbance	150 kHz - 80 MHz, (IEC 61000-4-6)	150 kHz - 80 MHz, (IEC 61000-4-6)
Immunity to disturbance with harmonics	2kHz - 150kHz	2kHz - 150kHz
Radio frequency emission	EN 55022, class B (CISPR22)	EN 55022, class B (CISPR22)
Electrostatic discharge	15 kV (IEC 61000-4-2)	
Standards	IEC 62052-11, IEC 62053-21 class 1, GB/T 17215.211-2006, GBT 17215.321-2008 class 1, GB 4208-2008, EN 50470-1, EN 50470-3 category B	
Mechanical		
Material	Glass reinforced polycarbonate	
Dimensions		
Width	17,5 mm	54 mm
Height	111 mm	122 mm
Depth	65 mm	65 mm
DIN modules	1	3

Energy efficiency

EQ meters C series



C11

Direct connected electricity meter up to 40 A. IEC approval. Instrument values. Alarm function. Optional - Verified and approved according to MID.

EQ meters single phase electricity meter, 1 DIN, 40 A

Class B (Cl.1) with functionality level Steel. Active energy					
Description	**Bbn 7392696**	**Order details**		**Weight 1 piece**	**Pack unit**
	EAN	**Type code**	**Order code**	**kg**	**pc.**
1 x 230 V AC, Pulse output 1000 imp/kWh + MID	035712	C11 110 - 101	2CMA103571R1000	0.070	1
Class 1 with functionality level Steel. Active energy					
1 x 230 V AC, Pulse output 1000 imp/kWh	035729	C11 110 - 301	2CMA103572R1000	0.070	1



C13

Direct connected electricity meter. IEC approval. 3 elementmetering. Instrument values. Alarm function. Optional - Verified and approved according to MID.

EQ meters three phase electricity meter, 3 DIN, 40 A

For direct connection up to 40 A. Class B (Cl.1) with functionality level Steel. Active energy					
Description	**Bbn 7392696**	**Order details**		**Weight 1 piece**	**Pack unit**
	EAN	**Type code**	**Order code**	**kg**	**pc.**
3 x 230/400 V AC, Pulse output 1000 imp/kWh + MID	035743	C13 110 - 101	2CMA103574R1000	0.170	1
For direct connection up to 40 A. Class 1 with functionality level Steel. Active energy					
3 x 230/400 V AC, Pulse output 1000 imp/kWh	035750	C13 110 - 301	2CMA103575R1000	0.170	1

Energy efficiency

Interfaces for EQ meters



ZS/S 1.1

Meter Interface Module, KNX

It records consumption and measured values of the electrical energy consumption meters. Using an infra-red interface, the ABB energy meter types of the A- and B-series are incorporated. The information and data which is read can be used, for example, for cost centre accounting, energy optimisation, monitoring of installations and visualisation.

Description	EAN	Order details		Weight 1 piece	Pack unit
		Type code	Order code	kg	pc.
KNX meter module	4016779662079	ZS/S 1.1	2CDG110083R0011	0.100	1

Energy efficiency
EQmatic



QA/S 3.xx.1

Energy Analyzer, M-Bus, MDRC
Compact and web-based stand-alone devices for energy management applications. For monitoring, logging, displaying and analyzing consumption data of up to 16 or 64 electricity, gas, water or heat meters via M-Bus. Automatic detection for ABB EQ meters (A/B-Series). Access to the device via web browser. The user interface provides graphical analysis functions, e.g. dashboard, historical data, instantaneous values, benchmark functions, cost allocation according to consumer groups and more.

Description	Bbn 4016779	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
16 Devices	997751	QA/S 3.16.1	2CDG110226R0011	0.15	1
64 Devices	997768	QA/S 3.64.1	2CDG110227R0011	0.15	1



QA/S 4.xx.1

Energy Analyzer, Modbus RTU, MDRC
Compact and web-based stand-alone devices for energy management applications. For monitoring, logging, displaying and analyzing consumption data of up to 16 or 64 electricity, gas, water or heat meters via Modbus RTU. Automatic detection for ABB EQ meters (A/B-Series). Access to the device via web browser. The user interface provides graphical analysis functions, e.g. dashboard, historical data, instantaneous values, benchmark functions, cost allocation according to consumer groups and more.

Description	Bbn 4016779	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
16 Devices	997775	QA/S 4.16.1	2CDG110228R0011	0.15	1
64 Devices	997782	QA/S 4.64.1	2CDG110229R0011	0.15	1



QA/S 1.16.1

Energy Analyzer, KNX, MDRC
Compact and web-based stand-alone device for energy management applications.
For monitoring, logging, displaying and analyzing consumption data of up to 16 electricity, gas, water or heat meters via KNX TP. In addition measured values such as temperature, humidity, etc. can be processed and displayed. The alarm function allows early warning via E-mail if any value exceeds defined limits. The user interface provides graphical analysis functions, e.g. dashboard, historical data, instantaneous values, benchmark functions,cost allocation according to consumer groups and more. In order to increase energy efficiency, defined loads can be selectively switched off with the load control function if they exceed a load limit. For further processing data can be exported via E-mail or upload to FTP server. Several data sharing options allow communication with other systems.

Description	Bbn 4016779	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
16 Devices	997713	QA/S 1.16.1	2CDG110224R0011	0.15	1

Notes

System pro M compact® InSite
Connected solution for sub distribution

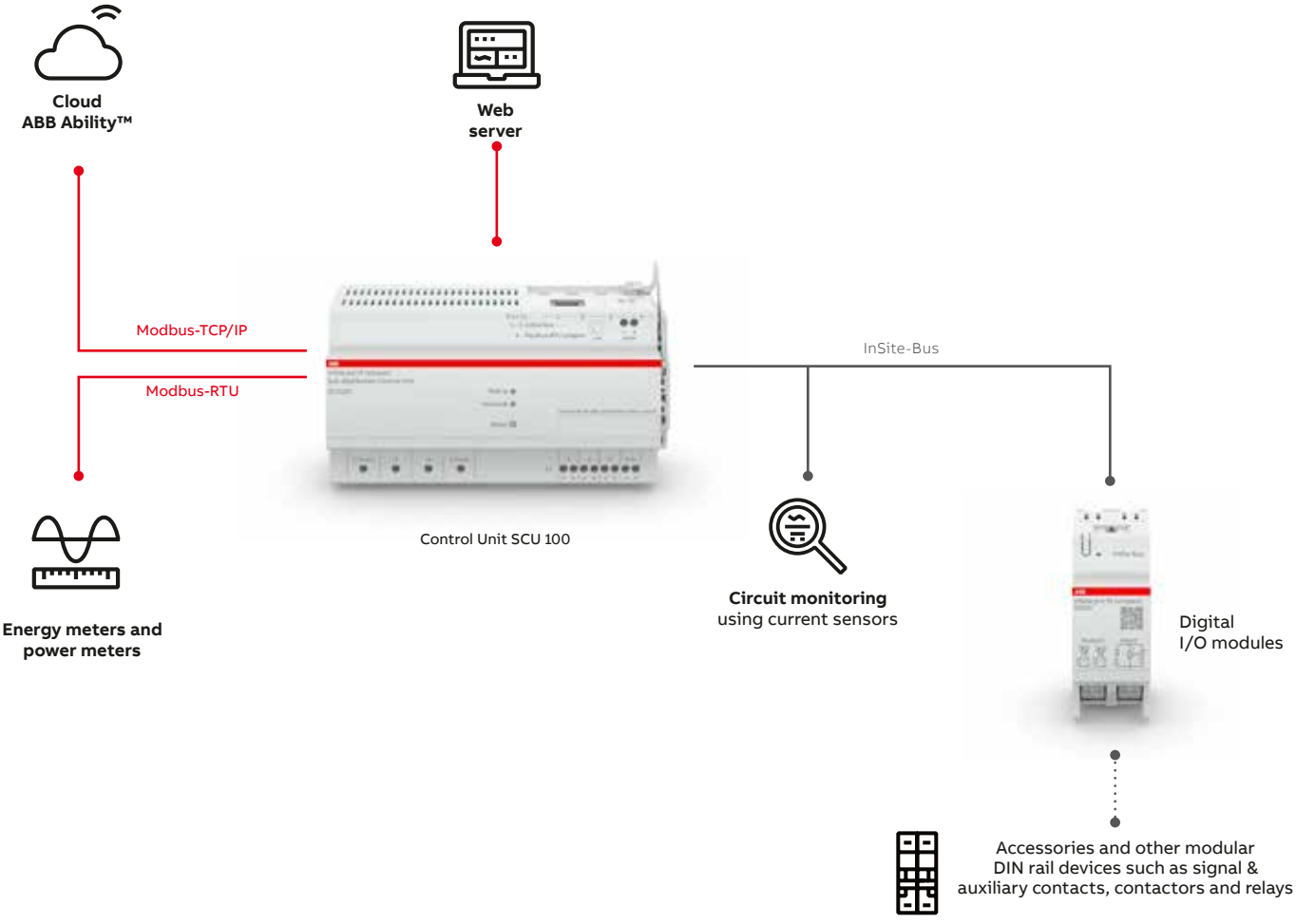
System pro M compact® InSite is a range of connected devices to support energy and asset management in electrical distribution.

The solution delivers highest data security standards (encrypted SNMP V3 and SSL certificate) as well as continuous upgrades thanks to regular firmware updates. Central to the System pro M® InSite range is the SCU100 control unit, that has been specifically developed to allow users to better manage energy and assets in sub distribution boards. It can gather data from up to 16 energy and power meters, as well current sensors for branch measurement.

ABB's ready-made, pre-assembled InSite kit packages are designed to make sub and final electrical distribution smarter with minimal effort. Any size of installation in commercial or industrial application can easily be upgraded, reducing installation and configuration time to nearly zero, and in turn, minimize costly operational downtime.

To enable monitoring and control of the complete energy distribution system, the range is completed with a flexible choice of input and output modules, which can be easily connected to ABB's System pro M compact® accessories of MCBs and RCDs, as well as other DIN-Rail products with digital inputs or outputs. They can also be connected to pulse meters – such as gas or water – to collect utilities consumption.

Based on a wide set of data, available functionalities range from simple monitoring of the installation to analysis of historical data, customized alarms and implementation of automated actions to reduce energy consumption, identify potential risks and ensure operational continuity.

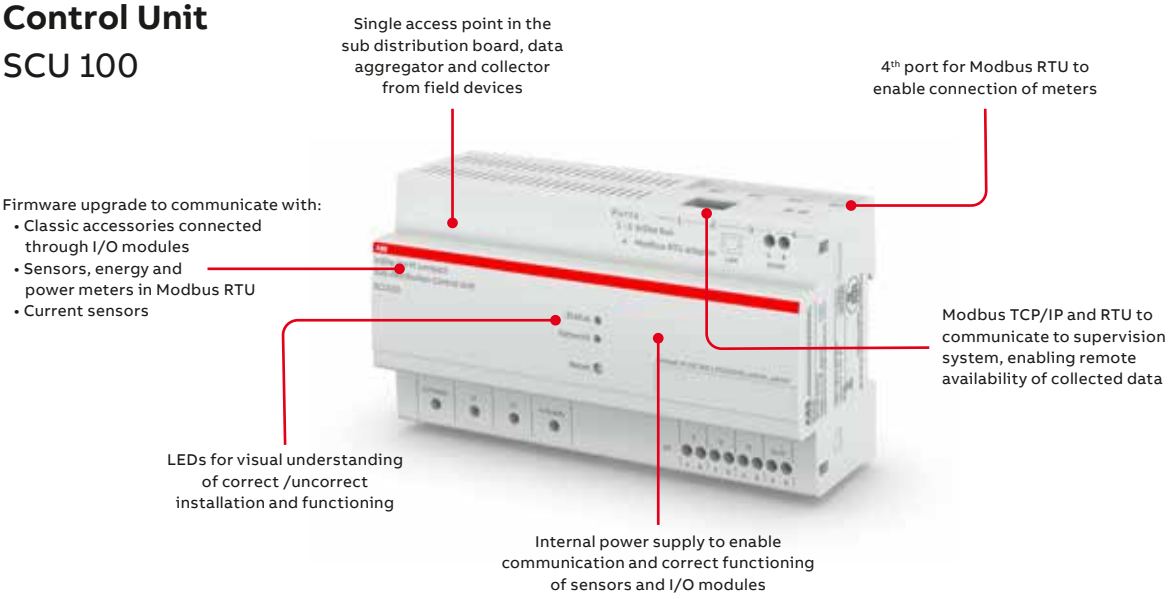




What to include in the panel:

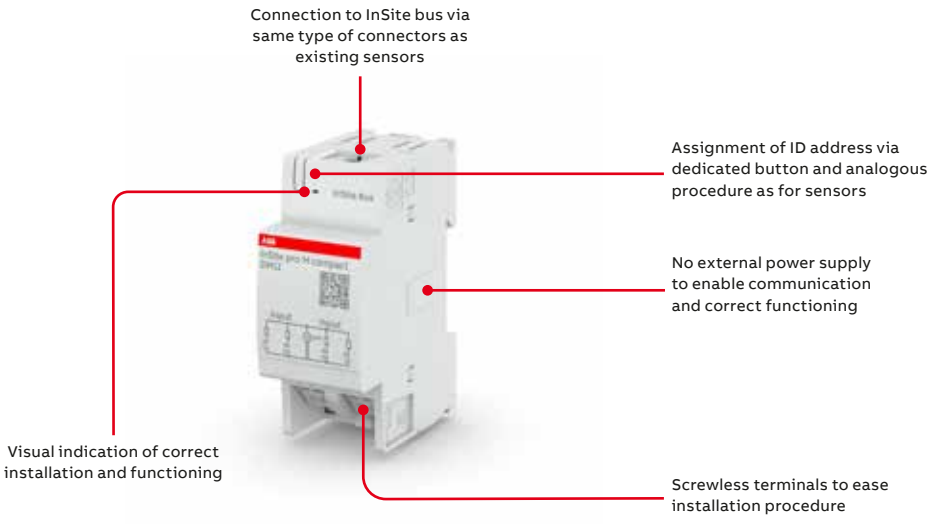
1. **Control Unit**
2. **Digital I/O modules**

1 Control Unit
SCU 100



2 Digital Input/Output modules
DM00, DM10, DM11

- Connect in the connectivity system classic accessories from existing and future ABB ranges and 3rd party ranges.
- Compatibility with water/gas/heat meters with pulse outputs
- Input to receive data from-hard wired connecte devices (accessories, meters)
- Output to act on connected accessories



Technical data

System pro M compact® InSite



Sub distribution control unit	Technical feature	Unit	Description
	Supply voltage	[VAC]	80-277 (L1-N, +5%)
	Frequency	[Hz]	50/60
	Power input (L1-N)	[W]	5...45 depending on number of sensors and I/O modules
	Power input , current trtransformer, secondary side	[VA]	Current circuit <2 (per phase)
	Voltage measurement range	[VAC]	80-277 (L1, L2, L3-N)
	Measurement range, current transformer, secondary side	[A]	nominal: 5 max: 6
	Hramonic component	[Hz]	up to 2000
	Data rate of Modbus RTU	[Baud]	RS485 2- wire, 2400...115200
	Refresh time		1sec / 30 sec (depending on type of data)
	Data storage and export		Integrated 1-year data storage Automatic CSV data export
	Communication		LAN: Modbus TCP/IP, SNMP v1, v2, encrypted v3 RS485: Modbus RTU
	Connected devices		Up to 96 sensors/digital channels Up to 16 meters
	LAN	[Mbit/s]	100
	Conductor cross-section	[mm^2]	0.5...2.5
	Mounting method		35mm DIN rail (DIN 5022)
	Degree of protection		IP20
	Dimensions	[mm]	161.5x87.0x64.9 (9WM)
	Oparting temperature	[°C]	-25... +60
	Stirage temperature	[°C]	-40... +85
	Standards		IEC61010-1

Main circuit accuracy	Description
Voltage	± 1%
Current	± 1%
Harmonic component (up to 2500Hz)	± 1%
Active power	± 2%
Apparent power	± 2%
Reactive power	± 2%
Power factor	± 2%

Input and Output modules	Technical feature	Unit	Input module DM11	Output module DM00	Input and Output module DM10
	Number of digital channels		4 Input	4 Output	2 Input + 2 Output
	Voltage (min - max)*		active input: 22-26 Vdc	relay output: 5Vdc-240Vac	active input: 22-26Vdc relay output: 5Vdc-240Vac
	Current (min - max)*		active input: 4mA	relay output: 5mA-2.5A Max 4,5A (<5sec)	active input: 4mA relay output: mA-2.5A Max 4,5A (<5sec)
	Pulse minimum duration**	[ms]	5	n/a	5
	Pulse frequency**	[Hz]	100	n/a	100
	Terminals cross section	[mm2]	2,5	2,5	2,5
	Mounting method		35 mm DIN rail (DIN 50022) or SMISSLINE TP plug base		
	Degree of protection		IP20	IP20	IP20
	Dimensions	[mm]	36x88x65	36x88x65	36x88x65
	Operating temperature	[°C]	-25...+60	-25...+60	-25...+60
	Storage temperature	[°C]	-40...+85	-40...+85	-40...+85
	Standards		IEC 61010	IEC 61010	IEC 61010

*Relay output values reported are applicable to resistive load
**Applicable only to active inputs

Ordering data

System pro M compact® InSite



SCU100

The SCU100 is capable of collecting measurements and information from up to 16 energy and power meters, in addition to 96 current sensors and digital channels, all simultaneously. It calculates the energy and number of operations at single line level and compares stored values by period or by device.

Remotely monitoring of the system is made possible by a digital communication that supports different protocols: Modbus RTU, TCP or SNMP v1 and v2 and the encrypted v3.

Its built-in web server offers intuitive access to the measured data, the configuration settings and the system parameters, providing one unique interface for both operations and commissioning process. The two interfaces – LAN (TCP/IP or Modbus TCP) and RS485 (Modbus RTU) – guarantee straightforward integration into any IT infrastructure. What's more, the data can be read out by means of an encrypted SNMP protocol.

The Sub-distribution Control Unit SCU100 has been specifically develop to meet requirements of energy and asset monitoring and control in sub-distribution panelboards. In a framework where energy efficiency and operations continuity are becoming crucial, SCU100 offers the possibility to reduce wastes and identify risky situations promptly.



Digital Input and Output modules – DM11, DM00, DM10

The range of digital Input and Output Modules consists of 3 devices to adapt to quantity and type of installed products: Input Module DM11, Output Module DM00 and Input/Output Module DM10.

They can be connected to System pro M compact® accessories of MCBs and RCDs, but also to other DIN-Rail products with a digital input or output and to pulse meters (e.g. water, gas meters). They can read contact status, activate or deactivate lines and collect utilities consumptions.

ABB ranges compatible with I/O Modules are:

Molded Case Circuit Breaker
Tmax XT

Molded Case Circuit Breaker	Residual Current Devices
S 200	RCCBs – F 200
SN 201	RCD-blocks – DDA 200, DDA 800
S200 80-100A	RCBOs – DS 201, DS 202, DS 203, DS 200, DS800
S 750 DR	eRCBOs – DSE, DSN
S 700	
S 800	



Accessories

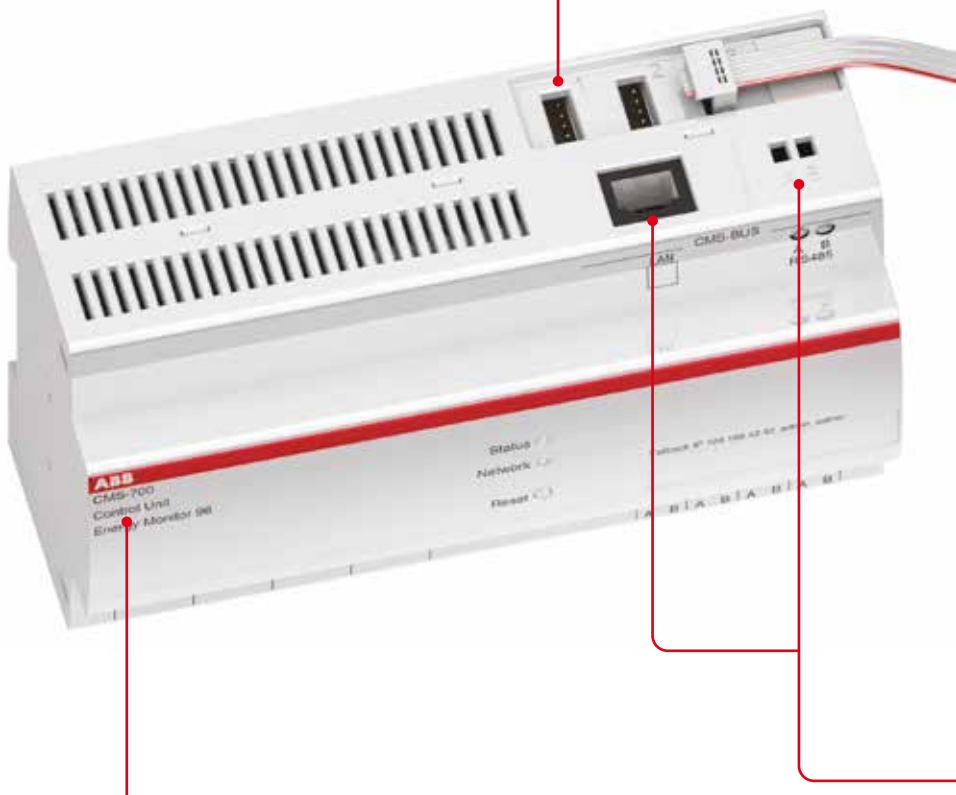
The Sub-distribution Control Unit needs a flat cable to gather information from current sensors and digital I/O modules. The flat cable should be a 4-pin cable, flexible in length. Devices can be placed at customizable distances required by the specific application.

Description	GTIN 7612271 EAN	Ordering details Brief description	 Product no.	Weight of 1 unit (kg)	Packaging unit (pce.)
Sub-distribution Control Unit	508104	SCU100	2CCG000242R0001	0.329	1
Digital Input Module	508135	DM11	2CCG000245R0001	0.075	1
Digital Output Module	508142	DM00	2CCG000246R0001	0.085	1
Digital Input and Output Module	508159	DM10	2CCG000247R0001	0.080	1
Flat cable 5m	508111	INS105	2CCG000243R0001	0.046	1
Connector set (35pcs)	508128	INS135	2CCG000244R0001	0.024	35

Energy efficiency
CMS – Circuit Monitoring System overview

The quality of a Circuit Monitoring System is dependent on the strengths of the individual components and how well they interact. ABB's new CMS sets new and high standards. Compactness, technology, measurement results, user friendliness and flexibility - every component and every feature of the CMS has been fully optimized in terms of practicality and functionality.

CMS bus interface
Each bus interface allows up to 32 sensors connected to the Control Unit:
CMS-700: up to 96 sensors (3×32)
CMS-600: up to 64 sensors (2×32)
CMS-660: up to 32 sensors (1×32)



Example illustration:
Control Unit CMS-700 in combination with CMS open-core sensors



CMS-600



CMS-700



CMS-660

Control Units
The control unit evaluates the measurement data picked up by the sensors, and makes it available via the provided interfaces.

Three different units are available depending on the application: CMS-700, CMS-660 and CMS-600.

Connection technology
Connecting the sensors to the Control Unit is extremely simple and requires no special tools. All sensors are connected to the Control Unit by means of a flexible flat cable and insulation displacement connectors. The positioning of sensors is fully customizable so that they sit exactly where a measurement is required.







Sensors
CMS sensors can be placed anywhere in the system, without any limitation. Easy initializing is guaranteed by the unique ID assigned to each sensors via Control Unit in just a few simple steps.
All measurement functions are available right after commissioning.



Serial interfaces
Depending on the selected control unit, the following communication interfaces are available: RS485 (Modbus RTU), LAN (TCP/IP and Modbus TCP), SNMP v1/v2 and v3 encrypted.

The web server integrated in the CMS-700 makes it possible to display the values via any Internet browser and to automatically export the files (via e-mail or FTP server).

Energy efficiency
Circuit Monitoring System

Integrate however you want thanks to multiple mounting options.
Depending on the application, you can choose between two sets of sensors - one specifically designed for ABB installation devices, the other with an universal design to be installed on cables or DIN-rail.

Sensors for ABB devices







System pro M installation, SMISSLINE
The sensors of the CMS-120LA and CMS-120FH series allow easy retrofit installation on S200 MCBs, SMISSLINE devices and E90 fuseholders (1000VDC).



Installation on S800 installation devices
CMS-100S8 and CMS-200S8 series sensors can be mounted on all S800 high performance circuit breakers with cage terminals.

Universally usable sensor designs







Mounting on a DIN rail
CMS-120DR, CMS-100DR, and CMS-200DR series sensors can be mounted on all DIN rails with the aid of a DIN rail mounting.



Cable tie mounting
If space is at a real premium, CMS-120CA, CMS-100CA, and CMS-200CA series sensors can be secured directly to the cable(s) to be measured by means of cable ties.

Energy efficiency
Circuit Monitoring System

Tangible value added for you
ABB circuit monitoring pays off twofold



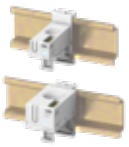
Early warning system (predictive maintenance) for increasing the availability of critical consumers
Continuous monitoring of the current flow at the circuit breaker makes it possible to detect overloaded lines before they lead to a service interruption. Apart from this, monitoring individual circuits indicates whether the loads are in the desired operating mode or not. In this way, system deviations can be ascertained instantaneously. What's more, the CMS can be used to detect unbalanced loads before they result in failure of the neutral conductor and consequently load failure.



Cost analysis to reduce and assign energy costs
The cost of energy will rise continuously. In order to cut costs, you first have to know where they arise. The Control Unit helps illustrate and analyze the instantaneous energy consumption levels. Furthermore, the calculated active energy can be used to roughly allocate the costs at the output level.

Energy efficiency
Circuit Monitoring System

Sensors overview

		System Pro M, SMISSLINE		S800	DIN rail	Cable tie
						
Mounting method	for all MCBs, RCDs, RCBOs with twin terminals	for MCBs (S200, SMISSLINE) and RCBOs (SMISSLINE)	for fuse holders E90	for all S800 devices with cage terminals	universally usable	universally usable
Open-core sensors						
AC accuracy* of ≤ ± 1.0% The laying method influences the accuracy.						
18-mm overall width						
CMS-120xx (80 A)	CMS-120PS	CMS-120LA	-		CMS-120DR	CMS-120CA
CMS-121xx (40 A)	CMS-121PS	CMS-121LA	CMS-121FH		CMS-121DR	CMS-121CA
CMS-122xx (20 A)	CMS-122PS	CMS-122LA	CMS-122FH		CMS-122DR	CMS-122CA
Solid-core sensors						
AC accuracy* of ≤ ± 0.5%						
18-mm overall width						
CMS-100xx (80 A)	CMS-100PS			CMS-100S8	CMS-100DR	CMS-100CA
CMS-101xx (40 A)	CMS-101PS			CMS-101S8	CMS-101DR	CMS-101CA
CMS-102xx (20 A)	CMS-102PS			CMS-102S8	CMS-102DR	CMS-102CA
25-mm overall width						
CMS-200xx (160 A)				CMS-200S8	CMS-200DR	CMS-200CA
CMS-201xx (80 A)				CMS-201S8	CMS-201DR	CMS-201CA
CMS-202xx (40 A)				CMS-202S8	CMS-202DR	CMS-202CA

* All accuracy specifications refer to the relevant full scale value and apply to 25°C

Energy efficiency

Circuit Monitoring System





Control units		
Characteristics	**Control Unit CMS-700**	**Control Unit CMS-600**
CMS Sensors		
Sensors	96 (3x32)	64 (2x32)
Control Unit		
Integrated power supply	•	
Voltage measurement	•	
Current (External CTs are required) measurement	•	
Active, reactive and appearent power (External CTs are required) measurement	•	
Calculated values for the branches		
Energy (Using branch currents, mains voltage and power factor over time)	•	
Power (Using branch currents, mains voltage and power factor)	•	
Interfaces		
RS485	•	•
LAN	•	
Protocols		
Modbus RTU	•	•
Modbus TCP	•	
SNMP (v1, v2 and encrypted v3)	•	
Visualization		
Built-in web server	•	
Touch display		•
CSV data export	•	
Approvals		
IEC 61010-1	•	•
UL 508 / CSA C22.2 No. 14	•	•

Energy efficiency

Control units



CMS-700

CMS-700
User Manual



CMS-600

CMS-600
User Manual

Control Unit CMS-700		
Supply voltage	[VAC]	80 – 277 (L1-N, +5%)
Frequency	[Hz]	50 / 60
Power input (L1-N)	[W]	5 ... 40 (dep. on number of sensors)
Power input, current transformer, secondary side	[VA]	Current circuit <2 (per phase)
Voltage measurement range	[VAC]	80 – 277 (L1, L2, L3-N)
Measurement range, current transformer, secondary side	[A]	nominal: 5 max.: 6
Harmonic component	[Hz]	up to 2000
Data rate of Modbus RTU	[Baud]	RS485 2-wire, 2400 ... 115200
Refresh time		≤1 sec with max. 96 sensors
LAN	[Mbit/s]	100
Conductor cross-section	[mm²]	0.5 ... 2.5
Mounting method		35 mm DIN rail (DIN 50022)
Degree of protection		IP20
Dimensions	[mm]	161.5 x 87.0 x 64.9 (9 WM)
Operating temperature	[°C]	-25 ... +60
Bearing temperature	[°C]	-40 ... +85
Standards		IEC61010-1 UL 508/ CSA C22.2 No. 14
Main circuit accuracy		
Voltage		±1%
Current		±1%
Harmonic component		1%
Active power		±2%
Apparent power		±2%
Reactive power		±2%
Power factor		±0.2%

Control Unit CMS-600 – Modbus RTU		
Supply voltage	[VDC]	24 (±10%)
Power input	[W]	4 – 24 (dep. on number of sensors)
Interface		RS485 2-wire
Protocol		Modbus RTU
Data rate	[Baud]	2400 ... 115200
Refresh time		≤1 sec with max. 64 sensors
Insulation strength	[VAC]	400
Screw-type terminals		0.5 ... 2.5 mm², max. 0.6 Nm
Mounting method		35 mm DIN rail (DIN 50022) or SMISSLINE TP plug base
Dimensions	[mm]	71.8 x 87.0 x 64.9 (4 WM)
Operating temperature	[°C]	-25 ... +70
Bearing temperature	[°C]	-40 ... +85
Standards		IEC 61010-1 UL 508/ CSA C22.2 No. 14

Energy efficiency
Control units

CMS-700



CMS-700
User Manual

CMS-700

The CMS-700 measures the AC and DC currents in the outgoing circuits via up to 3 x 32 sensors and calculates the energy and output data (line-side active and reactive power) of up to 96 sensors simultaneously.

Remotely monitoring of the system is made possible by a digital communication that supports different protocols: Modbus RTU, TCP or SNMP v1 and v2 and the encrypted v3. The Control Unit CMS-700 stands out thanks to its built-in web server that offers easy access not only to the measured data but also to the system parameters. The two interfaces – LAN (TCP/IP or Modbus TCP) and RS485 (Modbus RTU) – guarantee straight¬forward integration into any IT infrastructure. What's more, the data can be read out by means of an encrypted SNMP protocol.

The Control Unit CMS-700 has been developed specifically to meet the requirements of critical power applications, such as tho¬se of computing centers. In addition, however, professional energy monitoring is becoming ever more important when it comes to identifying savings potentials in functional buildings such as office buildings.

CMS-600



CMS-600
User Manual

CMS-600

The CMS-600 system enables you to measure AC and DC currents in up to 64 branches. For simple and fast operation, the Control Unit is equipped with an illuminated touch display that makes not only initialization but also control of the sensors extremely simple.

A 2-wire RS485 Modbus RTU interface enables users to remotely query and process the measurement data. As such, the CMS-600 Control Unit can be very easily integrated into an existing Modbus architecture. As an option, the measured values can also be visualized and processed by me¬ans of a programmable logic control (PLC).

CMS-600 is equipped with an integrated CMS software for which great care has been taken to ensure that the navigation concept is highly intuitive

The Control Unit CMS-600 are put to use in the critical power systems of hospitals and in similar industrial applica¬tions, too. Furthermore, these devices can also be found in functio¬nal buildings such as airports, hotels, office buildings, universities/ colleges and museums or in industrial photovoltaics.

Description	GTIN 7612271	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
Control units					
Control Unit CMS-700	453138	CMS-700	2CCA880700R0001	0.329	1
Control Unit CMS-600	418700	CMS-600	2CCA880000R0001	0.153	1

Energy efficiency

Sensors and Accessories



CMS-120LA



CMS-120FH



CMS-120PS



CMS-120DR



CMS-120CA

Open core sensors 18 mm

Sensor type			CMS-120xx	CMS-121xx	CMS-122xx
Measurement range		[A]	80	40	20
Measurement method			TRMS, AC 50 / 60 Hz, DC		
Peak value of the distorted wave-form			≤ 1.5	≤ 3	≤ 6
AC accuracy (TA = 25 °C)*			≤ ± 1 %		
AC* temperature coefficient			≤ ± 0.04 %		
AC accuracy (TA = 25 °C)*			≤ ± 1.2 %	≤ ± 1.4 %	≤ ± 1.8 %
DC* temperature coefficient			≤ ± 0.14 %	≤ ± 0.24 %	≤ ± 0.44 %
Resolution		[A]	0.01		
Internal sampling rate		[Hz]	5000		
Respond time (±1 %)		[sec]	Type 0.34		
Max. diameter of the cable		[mm]	9.6		
Insulation			690 V AC /1500 V DC		
Operating temperature		[°C]	– 25 ... +70 / – 40 ... +85		
Size	CMS-120PS series	[mm]	17.4 x 41.0 x 26.5		
	CMS-120CA series	[mm]	17.4 x 41.0 x 29.0		
	CMS-120DR series	[mm]	17.4 x 51.5 x 43.2		
	CMS-120LA series	[mm]	17.4 x 41.0 x 38.9		
	CMS-120FH series	[mm]	17.4 x 41.0 x 38.9		
Reference standard			IEC 61010-1 | UL508 / CSA C22.2 No 14		

* All accuracy specifications refer to full scale value and apply at 25° C.
In the case of open-core sensors, the position of the cable affects accuracy.



CMS-120PS



CMS-120PS



CMS-120DR



CMS-120CA

Solid-core sensors 18 mm

Sensor type			CMS-100xx	CMS-101xx	CMS-102xx
Measurement range		[A]	80	40	20
Measurement method			TRMS, AC 50 / 60 Hz, DC		
Peak value of the distorted wave-form			≤ 1.5	≤ 3	≤ 6
AC accuracy (TA = 25 °C)*			≤ ± 0.5 %		
AC* temperature coefficient			≤ ± 0.036 %		
AC accuracy (TA = 25 °C)*			≤ ± 0.7 %	≤ ± 1.0 %	≤ ± 1.7 %
DC* temperature coefficient			≤ ± 0.047 %	≤ ± 0.059 %	≤ ± 0.084 %
Resolution		[A]	0.01		
Internal sampling rate		[Hz]	5000		
Respond time (±1 %)		[sec]	Type 0.25		
Max. diameter of the cable		[mm]	10		
Insulation		[V]	690 V AC /1500 V DC		
Operating temperature		[°C]	– 25 ... +70 / – 40 ... +85		
Size	CMS-100PS series	[mm]	17.4 x 41.0 x 26.5		
	CMS-100S8 series	[mm]	26.5 x 45.5 x 31.8		
	CMS-100DR series	[mm]	17.4 x 51.5 x 43.2		
	CMS-100CA series	[mm]	17.4 x 41.0 x 29.0		
Reference standard			IEC 61010-1 | UL508 / CSA C22.2 No 14		

* All accuracy specifications refer to the relevant full scale value and apply at 25° C.

Energy efficiency
Sensors and Accessories



CMS-120PS



CMS-120DR



CMS-120CA

Solid-core sensors 25 mm

Sensor type			**CMS-200xx**	**CMS-201xx**	**CMS-202xx**
Measurement range		[A]	160	80	40
Measurement method			TRMS, AC 50 / 60 Hz, DC		
Peak value of the distorted wave-form			≤ 1.5	≤ 3	≤ 6
AC accuracy (TA = +25°C)*			≤ ± 0.5 %		
AC* temperature coefficient			≤ ± 0.036 %		
AC accuracy (TA = +25°C)*			≤ ± 0.7 %	≤ ± 1.0 %	≤ ± 1.7 %
DC* temperature coefficient			≤ ± 0.047 %	≤ ± 0.059 %	≤ ± 0.084 %
Resolution		[A]	0.01		
Internal sampling rate		[Hz]	5000		
Respond time (±1 %)		[sec]	Type 0.25		
Max. diameter of the cable		[mm]	15		
Insulation		[V]	690 V AC / 1500 V DC		
Operating temperature		[°C]	– 25 ... +70 / – 40 ... +85		
Size	CMS-200S8 series	[mm]	26.5 x 43.0 x 38.5		
	CMS-200DR series	[mm]	25.4 x 43.0 x 43.2		
	CMS-200CA series	[mm]	25.4 x 43.0 x 35.7		
Reference standard			IEC 61010-1 | UL508 / CSA C22.2 No 14		

* All accuracy specifications refer to the relevant full scale value and apply at 25 °C.

Energy efficiency

Sensors and Accessories



Open-core sensors Installation manual

Open-core sensors

The open-core sensors are able to measure all types of current, whether AC, DC or mixed, up to 80 A in TRMS, enabling exact and effective measurements. As each sensor is equipped with its own microprocessor for processing the signal, the measurement data is transmitted digitally to the Control Unit via bus interface, maximizing data reliability. Disturbances like those experienced with analog data now most definitely belong to the past.

With this solution a faster cabling is guaranteed, since wiring cables are directly inserted in the sensors without the aid of a screwdriver. No special tools are needed for the entire connection process.

With AC accuracy* of ≤ ±1.0 %, they can be used in a multitude of applications without any problem: System pro M, DIN rail and Cable tie.



Solid-core sensors Installation manual

Thanks to their U shape, the open-core sensors can be retrofitted to existing installations, without the need to discon¬nect the cabling or shut down the equipment, being the key for brownfield extension.

Solid-core sensors

Alternating (AC), direct (DC) or mixed (TRMS) currents – the CMS sensors monitor and measure all types of current over a measurement range of up to 160 A (TRMS). They even measure harmonic components in the signal curve. The measurements are digitally transmitted through bus interface, enabling reliability of data and removing disturbance effects.

Maximum secure insertion of wiring cables is guaranteed by this sensors solution.

Everything is built into an 18 or 25 mm wide unit to enable precise and effective measurements. This makes these CMS sensors the most compact and most powerful on the market.

Depending on the application, solid-core sensors are chosen between up to four different mounting options to making this solution as flexible as possible.

The solid-core units feature an enclosed structure and AC measurement accuracy* of ≤ ± 0.5 %, and are therefore suitable for all applications in which maximum-precision measurement is crucial.

* All accuracy specifications refer to the rel-evant full-scale value and apply to 25 °C.

Accessories

The Control Unit of the circuit monitoring system need a flat cable for receive branches measurements from sensors. The flat cable should be a 4-pin cable, flexible in length. Flat cable are available in several lengths in order to cover the most kind of application. Cables with the greater length are designed with the purpose of being adapted, through cutting, to the various lengths required by the applications.

Energy efficiency
Sensors and Accessories

Open-core sensors

	Description Type	ABB code	Weight of 1 unit (kg)	Unit conf. (Pcs)
Open-core sensors 18 mm for retrofit of MCBs (S200, SMISSLINE) and RCBOs (SMISSLINE)				
80 A	CMS-120LA	2CCA880225R0001	0.012	1
40 A	CMS-121LA	2CCA880226R0001	0.012	1
20 A	CMS-122LA	2CCA880227R0001	0.012	1
Open-core sensors 18 mm for retrofit of E90 fuseholders 1000VDC				
40 A	CMS-121FH	2CCA880216R0001	0.012	1
20 A	CMS-122FH	2CCA880217R0001	0.012	1
Open-core sensors 18 mm for pro M and SMISSLINE devices with twin terminals				
80 A	CMS-120PS	2CCA880210R0001	0.012	1
40 A	CMS-121PS	2CCA880211R0001	0.012	1
20 A	CMS-122PS	2CCA880212R0001	0.012	1
Open-core sensors 18 mm for DIN-rail (universal use)				
80 A	CMS-120DR	2CCA880240R0001	0.015	1
40 A	CMS-121DR	2CCA880241R0001	0.015	1
20 A	CMS-122DR	2CCA880242R0001	0.015	1
Open-core sensors 18 mm for cable tie mounting (universal use)				
80 A	CMS-120CA	2CCA880220R0001	0.011	1
40 A	CMS-121CA	2CCA880221R0001	0.011	1
20 A	CMS-122CA	2CCA880222R0001	0.011	1

Solid-core sensors

	Description Type	ABB code	Weight of 1 unit (kg)	Unit conf. (Pcs)
Solid-core sensors 18 mm for S800 devices with cage terminals				
80 A	CMS-100S8	2CCA880124R0001	0.014	1
40 A	CMS-101S8	2CCA880125R0001	0.014	1
20 A	CMS-102S8	2CCA880126R0001	0.014	1
Solid-core sensors 18 mm for pro M & SMISSLINE installation devices with twin terminals				
80 A	CMS-100PS	2CCA880100R0001	0.012	1
40 A	CMS-101PS	2CCA880101R0001	0.012	1
20 A	CMS-102PS	2CCA880102R0001	0.012	1
Solid-core sensors 18 mm for DIN rail mounting (universally usable)				
80 A	CMS-100DR	2CCA880128R0001	0.015	1
40 A	CMS-101DR	2CCA880129R0001	0.015	1
20 A	CMS-102DR	2CCA880130R0001	0.015	1
Solid-core sensors 18 mm for cable tie mounting (universally usable)				
80 A	CMS-100CA	2CCA880107R0001	0.011	1
40 A	CMS-101CA	2CCA880108R0001	0.011	1
20 A	CMS-102CA	2CCA880109R0001	0.011	1
Solid-core sensors 25 mm for S800 devices with cage terminals				
160 A	CMS-200S8	2CCA880136R0001	0.028	1
80 A	CMS-201S8	2CCA880137R0001	0.028	1
40 A	CMS-202S8	2CCA880138R0001	0.028	1

Energy efficiency
Sensors and Accessories

Solid-core sensors

	Description Type	ABB code	Weight of 1 unit (kg)	Unit conf. (Pcs)
Solid-core sensors 25 mm for DIN-rail mounting (universal use)				
160 A	CMS-200DR	2CCA880132R0001	0.030	1
80 A	CMS-201DR	2CCA880133R0001	0.030	1
40 A	CMS-202DR	2CCA880134R0001	0.030	1
Solid-core sensors 25 mm for cable tie mounting (universal use)				
160 A	CMS-200CA	2CCA880117R0001	0.026	1
80 A	CMS-201CA	2CCA880118R0001	0.026	1
40 A	CMS-202CA	2CCA880119R0001	0.026	1

Control Unit

	Description Type	ABB code	Weight of 1 unit (kg)	Unit conf. (Pcs)
CMS-600 Control Unit	CMS-600	2CCA880000R0001	0.153	1
CMS-700 Control Unit	CMS-700	2CCA880700R0001	0.329	1

Accessories

	Description Type	ABB code	Weight of 1 unit (kg)	Unit conf. (Pcs)
2 m flat cable	CMS-800	2CCA880148R0001	0.017	1
5 m flat cable	CMS-802	2CCA880331R0001	0.045	1
10 m Flat cable	CMS-803	2CCA880332R0001	0.090	1
30 m Flat cable	CMS-805	2CCA880333R0001	0.270	1
Connector set (35 pcs)	CMS-820	2CCA880145R0001	0.024	35

String monitoring
CMS-660 circuit monitoring system

Extreme flexibility
The number (up to 32) and positioning of the sensors is fully customizable, ensuring the highest flexibility in integration to different system conditions.

Up-to-date system status
CMS-660 immediately detects unusual system status (e.g. solar shading, over-voltages, breaker trip, high temperature), facilitating maintenance of the system.



User friendliness
Local information, thanks to the LEDs, about network and device status. Reset button to easily set the device.

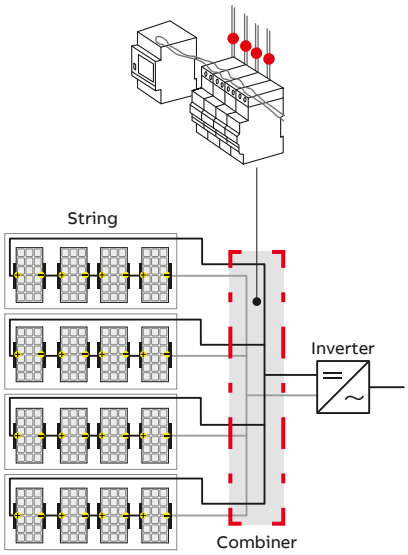
Compatibility
RS485 port to guarantee easy integration with the plant / inverter monitoring systems.

Smart commissioning
Thanks to the intelligent, intuitive configuration, the CMS system can be configured and put into operation in just a few minutes.

One sensor for all currents and strings
Direct, alternating or mixed – in a wide measuring range up to 80A, allowing the combination of two strings into one solid-core sensor.

Energy efficiency

String monitoring CMS-660



Circuit monitoring system for PV applications

The CMS string monitoring increases the efficiency of photovoltaic systems by detecting failures on PV strings. With the easy-to-integrate system you can immediately detect unusual system status, e.g. defective strings, over-voltages, breaker trips or high temperatures, enabling you to quickly implement appropriate countermeasures.

Key features:

- Current and temperature measurement directly from the sensors
- Monitoring of two strings can be combined into one single CMS solid-core sensor
- Integration of SPD and Switch disconnector status via 2 digital inputs
- Up to 32 flexible monitoring points, placed where measurement is required
- LEDs provide local information about network and device status.
- Modbus RTU protocol guarantees easy integration into plant or inverter monitoring systems
- Connection technology is extremely simple and requires no special tools

Control unit – CMS-660

Main technical specification		CMS-660
General data		
Degree of protection		IP20
Operating temperature	[°C]	– 25 .. +70 °C
Storage temperature	[°C]	– 40 .. +85 °C
Dimensions W / H / D	[mm]	71.8 x 87.0 x 64.9 (4 modules)
Screw-type terminals		0.5…2.5 mm², max 0.6 Nm
Altitude	[m]	≤ 2000 m
Insulation strength	[VAC]	400
Installation on DIN-rail		35 mm (DIN EN 50022)
Reference standards		IEC 61010-1 UL | 508/CSA C22.2 No. 14
Supply		
Supply voltage	[VDC]	24 (±10%)
Power Input	[W]	0.5 - 11 (dep. on n. of sensors)
Serial interface (RS-485)		
Serial transmission speed		2.4 … 115. 2 kbps
Cable type		Twisted, shielded
Communication protocol		Modbus RTU
Measuring inputs		
Max. number of sensors		32
Refresh time		≤1 sec with max 32 sensors
Digital inputs		2
Connection method		Push-in spring connection
Cable diameter		max. 0.5mm²
Electrical characteristics		for potential-free contact
Micro USB port		1

Control Unit

	Description Type	ABB code	Weight of 1 unit (kg)	Unit conf. (Pcs)
CMS-660 control unit	CMS-660	2CCA880020R0001	0.153	1

Notes

Energy efficiency

Analogue and digital instruments selection table

Measure	Technology	Mounting	Insertion	Characteristics	Accessories	Type	
Voltage	Analogue	3 modules	Direct	a.c.	MCV voltage switches	VLM page 8/45	
		72x72, 96x96	Direct		MCV voltage switches	VLM-1 page 8/50	
	Digital	3 modules	Direct	a.c. and d.c. Auxiliary supply 230 V a.c.	MCV voltage switches	VLMD page 8/42	
		36x72	Direct		MCV voltage switches	VLMD P page 8/43	
Curent	Analogue	3 modules	Direct	a.c. and d.c.	MCA current switches	AMT page 8/45	
			Indirect		CT a.c. current transformer SNT shunt for d.c. SCL interchangeable scale MCA current switches	AMT1/A AMT2 page 8/46	
		72x72, 96x96	Direct		MCA current switches	AMT1-A1 AMT2-A2 page 8/52	
			Indirect		CT a.c. current transformer SNT shunt for d.c. SCL interchangeable scale MCA current switches	AMT1-A1 AMT1-A5 AMT2-A2 page 8/52	
	Digital	3 modules	Indirect	a.c. and Auxiliary supply 230 V a.c.	CT a.c. current transformer SNT shunt for d.c. MCA current switches	AMTD page 8/42	
		36x72	Indirect		CT a.c. current transformer SNT shunt for d.c. MCA current switches	AMTD P page 8/43	
Frequency	Analogue	72x72, 96x96	Direct	a.c.		FRZ page 8/54	

Energy efficiency

Modular digital instruments



Digital instruments

Technical features		
Power supply	[V]	230 V a.c.
Rated frequency	[Hz]	50÷60
Ammeter full scale value	[A]	5, 20, 25, 40, 60, 100, 150, 200, 250, 400, 600, 999
Voltmeter full scale value	[V]	600
Frequency meter range	[Hz]	35...400
Tripping delay	[s]	1, 5, 10, 20, 30
Hysteresis	[%]	5, 10, 20, 30 set threshold
Output pins		3-4
Output relay		NO
Rated voltage relay	[V]	230 V a.c.
Rated current relay	[A]	AC1 16, AC15 3
Relay configuration		NO relay closes in alarm status
		NC relay opens in alarm status, positive safety
Overload	[In/Vn]	1, 2
Accuracy class	[%]	±0,5 full scale ±1digit at 25 °C
Max. signal input value for ammeters		5 A a.c./60 mV d.c.
Display		3 digit LED display
Operating temperature	[°C]	-10...+55
Storage temperature	[°C]	-40...+70
Protection degree		IP20
Power consumption	[VA]	4
Modules		3
Overall dimensions front panel devices	[mm]	36x72x61.5 (51.5 depth inside the switchboard)
Standard		IEC EN 61010

Energy efficiency

Modular digital instruments



VLMD

Modular digital instruments

The wide range of modular digital instruments starts with single-phase mono-function measurement devices for measuring voltage, current.
The range is composed by a voltmeter for a.c./d.c. voltage monitoring, one ammeter for a.c. current. Ammeters measure in indirect insertion thanks to measuring accessories, like current transformer for a.c. and shunt for d.c.
The full-scale value is programmable by the user, according to the current flow on the primary windings.

Version	Bbn 8012542	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
a.c./d.c. digital voltmeter	620402	VLMD-1-2	2CSM110000R1011	0,300	1
a.c. digital ammeter	620501	AMTD-1	2CSM320000R1011	0,300	1



AMTD

Modular digital instruments with alarm relay

The range is widened by two additional devices with extended features: two ammeters, trip the internal relay to signal an alarm condition if the measured parameter exceeds or falls below a programmable threshold. The measured maximum and minimum peak values are stored in the non-volatile instrument's memory.
The contact type is NO, so that the contact is open when the instrument is powered off, but it is possible to obtain positive safety operation setting, directly on the instrument, the NC relay contact type.
The instrument with relay can be used to signal the exceeding or the fall below a certain threshold, but not for both functions simultaneously.



FRZ

Version	Bbn 8012542	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
a.c. digital ammeter with alarm relay	747734	AMTD-1-R	2CSM274773R1011	0,300	1
d.c. digital ammeter with alarm relay	610731	AMTD-2-R		0,300	1

Energy efficiency

Front panel digital instruments



VLMD P

Front-panel digital instruments

The wide range of front-panel digital instruments starts with single-phase mono-function measurement devices for measuring voltage and current.
The range is composed by a voltmeter for a.c./d.c. voltage monitoring, and one ammeter for a.c. Ammeters measure in indirect insertion thanks to measuring accessories, like current transformer for a.c.
The full-scale value is programmable by the user, according to the current flow on the primary windings.

Version	Bbn 8012542	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
a.c./d.c. digital voltmeter	136057	VLMD P	2CSG213605R4011	0,300	1
a.c. digital ammeter	136156	AMTD-1 P	2CSG213615R4011	0,300	1



AMTD-_ P

Front-panel digital instruments with alarm relay

The range is widened by one additional devices with extended features: one ammeters that trip the internal relay to signal an alarm condition if the measured parameter exceeds or falls below a programmable threshold. The measured maximum and minimum peak values are stored in the non-volatile instrument's memory.
The contact type is NO, so that the contact is open when the instrument is powered off, but it is possible to obtain positive safety operation setting, directly on the instrument, the NC relay contact type.
The instrument with relay can be used to signal the exceeding or the fall below a certain threshold, but not for both functions simultaneously.

Version	Bbn 8012542	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
a.c. digital ammeter with alarm relay	136453	AMTD-1-R P	2CSG213645R4011	0,300	1

Energy efficiency

Analogue instruments selection table

Instrument mounting	a.c / d.c.	Size	Full-scale value Visualization	Instrument type		Scale type	
Modular	a.c.	-	90°	AMT1/A1		SCL 1	
Front-panel	a.c.	72x72 mm	90°	AMT1-A1/72		SCL-A1 ... /72	
			78°	AMT1-A5/72		SCL-A5 ... /72	
	a.c.	96x96 mm	90°	AMT1-A1/96		SCL-A1 ... /96	
			78°	AMT1-A5/96		SCL-A5 ... /96	
	d.c.	96x96 mm	90°	AMT2-A2/96		SCL-A2 ... /96	

Analogue instruments with scales

The range of mono-function analogue instruments, employable in single-phase networks, is composed of measurement devices performing the measure and visualization of one electrical parameter: voltage, current and frequency.
The range of voltmeters, both in modular and front-panel versions, is composed by devices fully equipped with the proper scale, even when the use of a voltage transformer is required. The connection, whether it's direct, allows the immediate visualization of the measures on the display.
The range of ammeters is composed of devices for direct and indirect connection to the network. The devices directly connected to the network are fully equipped with proper scale, while the devices that require a current transformer or a shunt, need to be combined with a separate scale to be mounted on the front of the instrument.
The wide range of scales for ammeters allows the employability of the latter even in application with high nominal current, up to 10000 A a.c.

Energy efficiency

Modular analogue instruments



VLM1



AMT1

Technical features			
Rated voltage Un		[V]	a.c. 300, 500; d.c. 100, 300
Rated currents in a.c.	Direct reading	[A]	full scale values 5...30
	Indirect reading		full scale values 5...2500
Rated currents in d.c.	Direct reading	[A]	full scale values 0.1...30
	Indirect reading		full scale values 5...500
Frequency		[Hz]	50/60
Overload capacity		[%]	20 compared to the voltage or to the rated current
Accuracy class		[%]	1.5 (0.5 for frequency meters)
Ammeters power consumption		[VA]	5 A: 0.3 VA; 10 A: 0.6 VA; 25 A:1 VA; 30 A: 1.2 VA
Voltmeters power consumption		[VA]	300 V: 1.5 VA; 500 V: 4 VA
Frequency meters power consumption		[VA]	<1.5 VA
Modules		[No.]	3
Protection degree			IP20
Standards			EN 60051

The range of modular analogue instruments is composed by mono-function measurement devices employable in single-phase networks. It includes voltmeters, ammeters and frequency meters. In particular, the range of ammeters is composed of devices fully equipped with the appropriate scale in the range between 5 A and 30 A. In case of greater current values, the range features devices to be used together with the proper scale and CT according to the application.

Modular analogue instruments for alternating current

Suitable for direct or indirect measurement through the appropriate accessories.

Voltmeters: direct connection					
Scale	Bbn 8012542	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
300 V	007906	VLM1/300	2CSM110190R1001	0.200	1
500 V	000006	VLM1/500	2CSM110220R1001	0.200	1

Ammeters: direct connection					
Scale	Bbn 8012542	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
5 A	000709	AMT1/5	2CSM310030R1001	0.200	1
10 A	000105	AMT1/10	2CSM310040R1001	0.200	1
15 A	000204	AMT1/15	2CSM310050R1001	0.200	1
20 A	000303	AMT1/20	2CSM310060R1001	0.200	1
25 A	000402	AMT1/25	2CSM310070R1001	0.200	1
30 A	000501	AMT1/30	2CSM310080R1001	0.200	1

Energy efficiency

Modular analogue instruments



VLM2

Ammeters without scale: connection using CT.../5					
Scale	Bbn 8012542	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
A1	000600	AMT1/A1	2CSM320250R1001	0.200	1



AMT2

Ammeters: direct connection					
Scale	Bbn 8012542	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
10 mA	028307	AMT2/0.01	2CSM410330R1001	0.200	1

Energy efficiency

Scales for modular analogue ammeters



SCL

Scales for modular analogue ammeters

Scales SCL 1/A1 for AMT1					
Scale	Bbn 8012542	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
A1-5A	001201	SCL 1/5	2CSM110021R1041	0.010	10
A1-10A	001300	SCL 1/10	2CSM110032R1041	0.010	10
A1-20A	001409	SCL 1/20	2CSM110075R1041	0.010	10
A1-25A	030706	SCL 1/25	2CSM110096R1041	0.010	10
A1-30A	001508	SCL 1/30	2CSM110107R1041	0.010	10
A1-40A	030805	SCL 1/40	2CSM110128R1041	0.010	10
A1-50A	001607	SCL 1/50	2CSM110149R1041	0.010	10
A1-60A	030904	SCL 1/60	2CSM110159R1041	0.010	10
A1-75A	031000	SCL 1/75	2CSM110169R1041	0.010	10
A1-80A	001706	SCL 1/80	2CSM110179R1041	0.010	10
A1-100A	001805	SCL 1/100	2CSM110189R1041	0.010	10
A1-150A	001904	SCL 1/150	2CSM110209R1041	0.010	10
A1-200A	002000	SCL 1/200	2CSM110229R1041	0.010	10
A1-250A	031109	SCL 1/250	2CSM110249R1041	0.010	10
A1-300A	002109	SCL 1/300	2CSM110259R1041	0.010	10
A1-400A	002208	SCL 1/400	2CSM110279R1041	0.010	10
A1-500A	002307	SCL 1/500	2CSM110299R1041	0.010	10
A1-600A	031208	SCL 1/600	2CSM110309R1041	0.010	10
A1-800A	002406	SCL 1/800	2CSM110329R1041	0.010	10
A1-1000A	002505	SCL 1/1000	2CSM110339R1041	0.010	10
A1-1500A	274704	SCL 1/1500	2CSM110359R1041	0.010	10
A1-2000A	274803	SCL 1/2000	2CSM110379R1041	0.010	10
A1-2500A	274902	SCL 1/2500	2CSM110389R1041	0.010	10

Energy efficiency

Front-panel analogue instruments



Front panel analogue instruments

Technical features		
Rated max. reference voltage for insulation	[V]	600 (a.c meters), 300 (d.c. meters)
Test voltage	[V]	2000 eff. (50 Hz/1 min)
Accuracy class		1.5 (0.5 for frequency meters)
Overload capacity ①		
- ammetric windings		up to In x 10/< sec. up to In x 2/permanent
- voltmetric windings		up to Un x 2/< 5 sec. up to Un x 1.2/permanent
Operating temperature	[°C]	-10...+55
Storage temperature	[°C]	-40...+70
Average and max. relative humidity (DIN 40040) ②		65% (yearly average) 85% (+35 °C/60 days a year)
Vibration resistance (IEC 50-1)	[g (9.81 m/s)]	0.08-1.8 (0.35 mm/10-55 Hz; 3 axis/6 h)
Degree of protection		IP52 indoors
		IP00 on the terminals (IEC 144. DIN 40050)
		IP20 with suitable terminal covers
Materials		
- cases and front edge		self-extinguishing thermosetting material in accordance with UL94 V-0, fungus and termite resistant
- pointers (DIN 43802) ③		molded aluminium
- terminals		brass
Assembly		vertical/horizontal with special screw-on brackets ④
Dimensions W x H x D (DIN 43700/43718)	[mm]	48 x 48 X 53 72 x 72 x 53 96 x 96 X 53
Applicable standards		IEC EN 61010-1

① The overload can be greater for instruments enabled by a CT because the transformer generally keeps secondary current peaks to within 10 In.
② Tropicalization enables the instruments to withstand up to 95% max. relative humidity (+35 °C/60 days). In accordance with DIN standard 40040, they must be protected against any penetration of humidity inside the device. Terminals, screws, washers, bolts and magnets are galvanically protected against rust, while the electrical circuits are painted with the special Multicolor PC52 varnish.
③ The pointer damping time is 1 second. The recorded values are cleared by pressing the control provided.
④ With 0.5 mm -19 mm thick panels, the screws must be attached in the fixing position nearest to the front edge of the measuring device, whereas the 20 mm - 39 mm thick panels require the screws to be fixed in the position furthest away from the front edge.

Energy efficiency

Front-panel analogue instruments



VLM

Available in both alternating current and direct current versions, the front-panel mono-function measurement devices come in two standard sizes, 72 mm x 72 mm and 96 mm x 96 mm (special versions available on request), employable in single-phase networks. The range is composed ammeters for a.c. and d.c. applications, and voltmeters and frequency meters for a.c. applications. Ammeters without scale for indirect connection must be completed with the appropriate scale, chosen according to the full-scale value.

Front-panel analogue voltmeters for alternating current

Size	Inser-tion	Scale	VT type	Bbn 8012542	Order details		Weight 1 piece	Pack unit
mm		V a.c.		EAN	Type code	Order code	kg	pc.
72	D	50		544104	VLM-1-50/72	2CSG112100R4001	0.200	1
72	D	60		544203	VLM-1-60/72	2CSG112110R4001	0.200	1
72	D	80		544302	VLM-1-80/72	2CSG112120R4001	0.200	1
72	D	100		544401	VLM-1-100/72	2CSG112130R4001	0.200	1
72	D	150		544500	VLM-1-150/72	2CSG112150R4001	0.200	1
72	D	200		544609	VLM-1-200/72	2CSG112160R4001	0.200	1
72	D	250		544708	VLM-1-250/72	2CSG112180R4001	0.200	1
72	D	300		544807	VLM-1-300/72	2CSG112190R4001	0.200	1
72	D	400		544906	VLM-1-400/72	2CSG112210R4001	0.200	1
72	D	500		545002	VLM-1-500/72	2CSG112220R4001	0.200	1
72	D	600		545101	VLM-1-600/72	2CSG112230R4001	0.200	1

Energy efficiency

Front-panel analogue instruments



VLM

Size	Inser-tion	Scale	VT type	Bbn 8012542	Order details		Weight 1 piece	Pack unit
mm		V a.c.		EAN	Type code	Order code	kg	pc
96	D	50		546702	VLM-1-50/96	2CSG113100R4001	0.400	1
96	D	60		546801	VLM-1-60/96	2CSG113110R4001	0.400	1
96	D	80		546900	VLM-1-80/96	2CSG113120R4001	0.400	1
96	D	100		547006	VLM-1-100/96	2CSG113130R4001	0.400	1
96	D	150		547105	VLM-1-150/96	2CSG113150R4001	0.400	1
96	D	200		547204	VLM-1-200/96	2CSG113160R4001	0.400	1
96	D	250		547303	VLM-1-250/96	2CSG113180R4001	0.400	1
96	D	300		547402	VLM-1-300/96	2CSG113190R4001	0.400	1
96	D	400		547501	VLM-1-400/96	2CSG113210R4001	0.400	1
96	D	500		547600	VLM-1-500/96	2CSG113220R4001	0.400	1
96	D	600		547709	VLM-1-600/96	2CSG113230R4001	0.400	1

D: direct connection

Energy efficiency

Front-panel analogue ammeters for alternating current



AMT1-A1 72



AMT1-A1 96

Size	Insertion	Scale	Bbn 8012542	Order details		Weight 1 piece	Pack unit
mm		A a.c.	EAN	Type code	Order code	kg	pc.
72	D	1	545507	AMT1-A1-1/72	2CSG312020R4001	0.200	1
72	D	5	545606	AMT1-A1-5/72	2CSG312030R4001	0.200	1
72	D	10	545705	AMT1-A1-10/72	2CSG312040R4001	0.200	1
72	D	15	545804	AMT1-A1-15/72	2CSG312050R4001	0.200	1
72	D	20	545903	AMT1-A1-20/72	2CSG312060R4001	0.200	1
72	D	25	546009	AMT1-A1-25/72	2CSG312070R4001	0.200	1
72	D	30	546108	AMT1-A1-30/72	2CSG312080R4001	0.200	1
72	D	40	546207	AMT1-A1-40/72	2CSG312090R4001	0.200	1
72	D	50	546306	AMT1-A1-50/72	2CSG312100R4001	0.200	1
72	D	60	546405	AMT1-A1-60/72	2CSG312110R4001	0.200	1
72	I	SCL-A1	546504	AMT1-A1/72	2CSG322250R4001	0.200	1
72	I	SCL-A5	546603	AMT1-A5/72	2CSG322260R4001	0.200	1

Size	Insertion	Scale	Bbn 8012542	Order details		Weight 1 piece	Pack unit
mm		A a.c.	EAN	Type code	Order code	kg	pc.
96	D	1	548102	AMT1-A1-1/96	2CSG313020R4001	0.400	1
96	D	5	548201	AMT1-A1-5/96	2CSG313030R4001	0.400	1
96	D	10	548300	AMT1-A1-10/96	2CSG313040R4001	0.400	1
96	D	15	548409	AMT1-A1-15/96	2CSG313050R4001	0.400	1
96	D	20	548508	AMT1-A1-20/96	2CSG313060R4001	0.400	1
96	D	25	548607	AMT1-A1-25/96	2CSG313070R4001	0.400	1
96	D	30	548706	AMT1-A1-30/96	2CSG313080R4001	0.400	1
96	D	40	548805	AMT1-A1-40/96	2CSG313090R4001	0.400	1
96	D	50	548904	AMT1-A1-50/96	2CSG313100R4001	0.400	1
96	D	60	549000	AMT1-A1-60/96	2CSG313110R4001	0.400	1
96	I	SCL-A1	549109	AMT1-A1/96	2CSG323250R4001	0.400	1
96	I	SCL-A5	549208	AMT1-A5/96	2CSG323260R4001	0.400	1

D: direct connection
I: indirect connection with VT, CT and shunt, according to the type

Energy efficiency

Front-panel analogue instruments



FRZ 72



FRZ 96

Front-panel analogue frequency meters

Size	Insertion	Scale	Bbn 8012542	Order details		Weight 1 piece	Pack unit
mm			EAN	Type code	Order code	kg	pc.
72	D	90°	555704	FRZ-90/72	2CSG812310R4001	0.200	1
72	D	240°	555902	FRZ-240/72	2CSG812320R4001	0.200	1

Size	Insertion	Scale	Bbn 8012542	Order details		Weight 1 piece	Pack unit
mm			EAN	Type code	Order code	kg	pc.
96	D	90°	555803	FRZ-90/96	2CSG813310R4001	0.400	1
96	D	240°	556008	FRZ-240/96	2CSG813320R4001	0.400	1

D: direct connection
I: indirect connection with VT, CT and shunt, according to the type

Energy efficiency

Scales for front-panel analogue instrument



SCL

Scales 72 x 72 mm: SCL-A1 for AMT1-A1/72 a.c. ammeters

Scale	Bbn 8012542	Order details		Weight 1 piece	Pack unit
A a.c.	EAN	Type code	Order code	kg	pc.
1	771609	SCL-A1-1/72	2CSG112010R5011	0.010	10
5	771708	SCL-A1-5/72	2CSG112021R5011	0.010	10
10	771807	SCL-A1-10/72	2CSG112032R5011	0.010	10
15	771906	SCL-A1-15/72	2CSG112054R5011	0.010	10
20	772002	SCL-A1-20/72	2CSG112075R5011	0.010	10
25	772101	SCL-A1-25/72	2CSG112096R5011	0.010	10
30	772200	SCL-A1-30/72	2CSG112107R5011	0.010	10
40	772309	SCL-A1-40/72	2CSG112128R5011	0.010	10
50	772408	SCL-A1-50/72	2CSG112149R5011	0.010	10
60	772507	SCL-A1-60/72	2CSG112159R5011	0.010	10
80	772606	SCL-A1-80/72	2CSG112179R5011	0.010	10
100	572305	SCL-A1-100/72	2CSG112189R5011	0.010	10
150	572404	SCL-A1-150/72	2CSG112209R5011	0.010	10
200	572503	SCL-A1-200/72	2CSG112229R5011	0.010	10
250	572602	SCL-A1-250/72	2CSG112249R5011	0.010	10
300	572701	SCL-A1-300/72	2CSG112259R5011	0.010	10
400	572800	SCL-A1-400/72	2CSG112279R5011	0.010	10
500	572909	SCL-A1-500/72	2CSG112299R5011	0.010	10
600	573005	SCL-A1-600/72	2CSG112309R5011	0.010	10
800	573104	SCL-A1-800/72	2CSG112329R5011	0.010	10
1000	573203	SCL-A1-1000/72	2CSG112339R5011	0.010	10
1500	573302	SCL-A1-1500/72	2CSG112359R5011	0.010	10
2000	573401	SCL-A1-2000/72	2CSG112379R5011	0.010	10
2500	573500	SCL-A1-2500/72	2CSG112389R5011	0.010	10
3000	573609	SCL-A1-3000/72	2CSG112399R5011	0.010	10
4000	573708	SCL-A1-4000/72	2CSG112409R5011	0.010	10
5000	573807	SCL-A1-5000/72	2CSG112419R5011	0.010	10
6000	573906	SCL-A1-6000/72	2CSG112429R5011	0.010	10
8000	574002	SCL-A1-8000/72	2CSG112439R5011	0.010	10
10000	574101	SCL-A1-10000/72	2CSG112449R5011	0.010	10

Energy efficiency

Scales for front-panel analogue instrument



SCL

Scales 72 x 72 mm: SCL-A5 for AMT1-A5/72 a.c. ammeters					
Scale	Bbn 8012542	Order details		Weight 1 piece	Pack unit
A a.c.	EAN	Type code	Order code	kg	pc.
1	772705	SCL-A5-1/72	2CSG122010R5011	0.010	10
5	772804	SCL-A5-5/72	2CSG122021R5011	0.010	10
10	772903	SCL-A5-10/72	2CSG122032R5011	0.010	10
15	773009	SCL-A5-15/72	2CSG122054R5011	0.010	10
20	773108	SCL-A5-20/72	2CSG122075R5011	0.010	10
25	773207	SCL-A5-25/72	2CSG122096R5011	0.010	10
30	773306	SCL-A5-30/72	2CSG122107R5011	0.010	10
40	773405	SCL-A5-40/72	2CSG122128R5011	0.010	10
50	773504	SCL-A5-50/72	2CSG122149R5011	0.010	10
60	773603	SCL-A5-60/72	2CSG122159R5011	0.010	10
80	773702	SCL-A5-80/72	2CSG122179R5011	0.010	10
100	574200	SCL-A5-100/72	2CSG122189R5011	0.010	10
150	574309	SCL-A5-150/72	2CSG122209R5011	0.010	10
200	574408	SCL-A5-200/72	2CSG122229R5011	0.010	10
250	574507	SCL-A5-250/72	2CSG122249R5011	0.010	10
300	574606	SCL-A5-300/72	2CSG122259R5011	0.010	10
400	574705	SCL-A5-400/72	2CSG122279R5011	0.010	10
500	574804	SCL-A5-500/72	2CSG122299R5011	0.010	10
600	574903	SCL-A5-600/72	2CSG122309R5011	0.010	10
800	575009	SCL-A5-800/72	2CSG122329R5011	0.010	10
1000	575108	SCL-A5-1000/72	2CSG122339R5011	0.010	10
1500	575207	SCL-A5-1500/72	2CSG122359R5011	0.010	10
2000	575306	SCL-A5-2000/72	2CSG122379R5011	0.010	10
2500	575405	SCL-A5-2500/72	2CSG122389R5011	0.010	10
3000	575504	SCL-A5-3000/72	2CSG122399R5011	0.010	10
4000	575603	SCL-A5-4000/72	2CSG122409R5011	0.010	10
5000	575702	SCL-A5-5000/72	2CSG122419R5011	0.010	10
6000	575801	SCL-A5-6000/72	2CSG122429R5011	0.010	10
8000	575900	SCL-A5-8000/72	2CSG122439R5011	0.010	10
10000	576006	SCL-A5-10000/72	2CSG122449R5011	0.010	10

Energy efficiency

Scales for front-panel analogue instrument



SCL

Scales 96 x 96 mm: SCL-A1 for AMT1-A1/96 a.c. ammeters					
Scale	**Bbn 8012542**	**Order details**		**Weight 1 piece**	**Pack unit**
A a.c.	**EAN**	**Type code**	**Order code**	**kg**	**pc.**
1	773801	SCL-A1-1/96	2CSG113010R5011	0.010	10
5	773900	SCL-A1-5/96	2CSG113021R5011	0.010	10
10	774006	SCL-A1-10/96	2CSG113032R5011	0.010	10
15	774105	SCL-A1-15/96	2CSG113054R5011	0.010	10
20	774204	SCL-A1-20/96	2CSG113075R5011	0.010	10
25	774303	SCL-A1-25/96	2CSG113096R5011	0.010	10
30	774402	SCL-A1-30/96	2CSG113107R5011	0.010	10
40	774501	SCL-A1-40/96	2CSG113128R5011	0.010	10
50	774600	SCL-A1-50/96	2CSG113149R5011	0.010	10
60	774709	SCL-A1-60/96	2CSG113159R5011	0.010	10
80	774808	SCL-A1-80/96	2CSG113179R5011	0.010	10
100	584100	SCL-A1-100/96	2CSG113189R5011	0.010	10
150	584209	SCL-A1-150/96	2CSG113209R5011	0.010	10
200	584308	SCL-A1-200/96	2CSG113229R5011	0.010	10
250	584407	SCL-A1-250/96	2CSG113249R5011	0.010	10
300	584506	SCL-A1-300/96	2CSG113259R5011	0.010	10
400	584605	SCL-A1-400/96	2CSG113279R5011	0.010	10
500	584704	SCL-A1-500/96	2CSG113299R5011	0.010	10
600	584803	SCL-A1-600/96	2CSG113309R5011	0.010	10
800	584902	SCL-A1-800/96	2CSG113329R5011	0.010	10
1000	585008	SCL-A1-1000/96	2CSG113339R5011	0.010	10
1500	585107	SCL-A1-1500/96	2CSG113359R5011	0.010	10
2000	585206	SCL-A1-2000/96	2CSG113379R5011	0.010	10
2500	585305	SCL-A1-2500/96	2CSG113389R5011	0.010	10
3000	585404	SCL-A1-3000/96	2CSG113399R5011	0.010	10
4000	585503	SCL-A1-4000/96	2CSG113409R5011	0.010	10
5000	585602	SCL-A1-5000/96	2CSG113419R5011	0.010	10
6000	585701	SCL-A1-6000/96	2CSG113429R5011	0.010	10
8000	585800	SCL-A1-8000/96	2CSG113439R5011	0.010	10
10000	585909	SCL-A1-10000/96	2CSG113449R5011	0.010	10

Energy efficiency

Scales for front-panel analogue instrument



SCL

Scales 96 x 96 mm: SCL-A5 for AMT1-A5/96 a.c. ammeters					
Scale	Bbn 8012542	Order details		Weight 1 piece	Pack unit
A a.c.	EAN	Type code	Order code	kg	pc.
1	774907	SCL-A5-1/96	2CSG123010R5011	0.010	10
5	775003	SCL-A5-5/96	2CSG123021R5011	0.010	10
10	775102	SCL-A5-10/96	2CSG123032R5011	0.010	10
15	775201	SCL-A5-15/96	2CSG123054R5011	0.010	10
20	775300	SCL-A5-20/96	2CSG123075R5011	0.010	10
25	775409	SCL-A5-25/96	2CSG123096R5011	0.010	10
30	775508	SCL-A5-30/96	2CSG123107R5011	0.010	10
40	775607	SCL-A5-40/96	2CSG123128R5011	0.010	10
50	775706	SCL-A5-50/96	2CSG123149R5011	0.010	10
60	775805	SCL-A5-60/96	2CSG123159R5011	0.010	10
80	775904	SCL-A5-80/96	2CSG123179R5011	0.010	10
100	586005	SCL-A5-100/96	2CSG123189R5011	0.010	10
150	586104	SCL-A5-150/96	2CSG123209R5011	0.010	10
200	586203	SCL-A5-200/96	2CSG123229R5011	0.010	10
250	586302	SCL-A5-250/96	2CSG123249R5011	0.010	10
300	586401	SCL-A5-300/96	2CSG123259R5011	0.010	10
400	586500	SCL-A5-400/96	2CSG123279R5011	0.010	10
500	586609	SCL-A5-500/96	2CSG123299R5011	0.010	10
600	586708	SCL-A5-600/96	2CSG123309R5011	0.010	10
800	586807	SCL-A5-800/96	2CSG123329R5011	0.010	10
1000	586906	SCL-A5-1000/96	2CSG123339R5011	0.010	10
1500	587002	SCL-A5-1500/96	2CSG123359R5011	0.010	10
2000	587101	SCL-A5-2000/96	2CSG123379R5011	0.010	10
2500	587200	SCL-A5-2500/96	2CSG123389R5011	0.010	10
3000	587309	SCL-A5-3000/96	2CSG123399R5011	0.010	10
4000	587408	SCL-A5-4000/96	2CSG123409R5011	0.010	10
5000	587507	SCL-A5-5000/96	2CSG123419R5011	0.010	10
6000	587606	SCL-A5-6000/96	2CSG123429R5011	0.010	10
8000	587705	SCL-A5-8000/96	2CSG123439R5011	0.010	10
10000	587804	SCL-A5-10000/96	2CSG123449R5011	0.010	10

Energy efficiency

Scales for front-panel analogue instrument



SCL

Scales 96 x 96 mm: SCL-A2 for AMT2-A2/96 d.c. ammeters					
Scale	Bbn 8012542	Order details		Weight 1 piece	Pack unit
A a.c.	EAN	Type code	Order code	kg	pc.
20	598107	SCL-A2-20/96	2CSG233075R5011	0.010	10
100	598206	SCL-A2-100/96	2CSG233189R5011	0.010	10
150	598305	SCL-A2-150/96	2CSG233209R5011	0.010	10
200	598404	SCL-A2-200/96	2CSG233229R5011	0.010	10
250	598503	SCL-A2-250/96	2CSG233249R5011	0.010	10
300	598602	SCL-A2-300/96	2CSG233259R5011	0.010	10
400	598701	SCL-A2-400/96	2CSG233279R5011	0.010	10
500	598800	SCL-A2-500/96	2CSG233299R5011	0.010	10
600	598909	SCL-A2-600/96	2CSG233309R5011	0.010	10
800	599005	SCL-A2-800/96	2CSG233329R5011	0.010	10
1000	599104	SCL-A2-1000/96	2CSG233339R5011	0.010	10

Energy efficiency

Voltmetric and current switches



MCV

Technical features		
Insulation voltage	[V]	600
Rated thermal current	[A]	12
Mechanic operations	[No.]	1000000
Power consumption	[VA]	0.23
Modules	[No.]	3

MCV - MCA voltmetric and current switches

Cam rotary switches are suitable for mounting on EN 50022 rail. In three-phase systems they enable the use of a single measurement instrument (single-phase) for viewing the current or voltage value set through the switch itself.



MCA

Voltmeter switches						
Range	Power loss	Bbn 7392696	Order details		Weight 1 piece	Pack unit
	W	EAN	Type code	Order code	kg	pc.
L1, L2, L3	0.5	522469	MCV 4	1SCA022404R4740	0.095	1
L1, L2, L3, N	0.5	522438	MCV 7	1SCA022647R7840	0.110	1

Current switches						
Range	Power loss	Bbn 7392696	Order details		Weight 1 piece	Pack unit
	W	EAN	Type code	Order code	kg	pc.
0-1-2-3	0.5	522452	MCA 4	1SCA022404R4821	0.110	1



QCA 48

Front panel QCV - QCA voltage and current switches

For use in three-phase systems, to allow a single device to measure the voltage and current settings adjusted by the switches.

Measure	Position	Bbn 7392696	Order details		Weight 1 piece	Pack unit
		EAN	Type code	Order code	kg	pc.
Voltage	4	527990	QCV-4/48	1SCA022780R0770	0.150	1
Current	4	528003	QCA-4/48	1SCA022780R0690	0.150	1
Voltage	7	527983	QCV-7/48	1SCA022780R0850	0.150	1



QCV 48

Energy efficiency
E 233 hour counters



E 233

Technical features		
	AC equipment	DC equipment
Rated voltage	50 Hz: 24 V, 230 V 60 Hz: 24 V, 120 V, 240 V	DC 12 V ... 48 V
Voltage tolerance	±15 %	±10 %
Power consumption	1.5 VA	ca. 20 mW (at 12 V DC)
Ambient temperature	–15 °C/5 °F... +50 °C/122 °F	–10 °C/14 °F ... +50 °C/122 °F
Counting capacity	99.999 h	99.999 h
Reading accuracy	0.01 h	0.1 h
Operation display	fast running	LED blinking
Protection against electric shock	according to DIN VDE 0106 Part 100 (BGV A2)	according to DIN VDE 0106 Part 100 (BGV A2)
Terminal size	up to 10 mm^2	up to 10 mm^2

E 233 electro-mechanical hour counters

Hour counters are used to record operating times as well as to determine idle times and off times of industrial machinery and plant, for commercial purposes or in domestic installations. No reset functionality.

Rated voltage	Bbn 4012233	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
AC 230 V/50 Hz	630004	E 233-230	2CDE100000R1601	0.05	10
AC 24 V/50 Hz	630103	E 233-24	2CDE400000R1601	0.05	10
DC 12 V ... 48 V	630202	E 233-12/48	2CDE300010R1601	0.05	10
AC 240 V/60 Hz	365901 ①	E 233-240/60 Hz	2CDE100021R1601	0.05	10
AC 120 V/60 Hz	366007 ①	E 233-120/60 Hz	2CDE600021R1601	0.05	10
AC 24 V/60 Hz	366106 ①	E 233- 24/60 Hz	2CDE400021R1601	0.05	10

① Bbn No. 4016779

Energy efficiency
HMT hour counters



HMT

Technical features		
Rated voltage Un	[V]	a.c. 24 a.c. 110 a.c. 230
Displayed digits (in hours)	[n°]	99,999.9 (for HMT1 and HMT11)
Accuracy class	[%]	0.5
Frequency	[Hz]	50
Power consumption	[W]	1.1...2.2
Modules	[No.]	2

HMT electro-mechanical hour counters
Equipped with 7-digit indicator (99.999,99) and available in two modules.
They cannot be reset.

Rated voltage	Bbn 8012542	Order details		Weight 1 piece	Pack unit
V AC	EAN	Type code	Order code	kg	pc.
24	030300	HMT 1/24	2CSM111000R1601	0.200	6
110	030409	HMT 1/110	2CSM121000R1601	0.200	6
230	030508	HMT 1/220	2CSM131000R1601	0.200	6
230	030607	HMT 11	2CSM133000R1601	0.200	1

Energy efficiency

TMD temperature control units



TMD

Technical features			
Auxiliary supply	Alternating current	[V]	20÷250 ±15%
	Direct current	[Hz]	115-230-400 50-60
Power consumption		[VA]	4 max
Input	Sensor		PT100 RTD (not included)
	Type		3 wires (2 and 4 wires types are also supported)
	Error		1 degree every 0,39 Ω
	Measure range	[°C]	0...220 ± 2
	Compensation	[Ω]	20 max
	Trip delay/hysteresis	[s/°C]	5/2
Output	Number		4
	Type		NO-CO-NC
	Vmax	[V]	12 d.c.
	Imaxww	[A]	8 (resistive load)
	Functions		Alarm, trip, cooling, auto-test
	Programmable functions		Alarm, tip, hold, fan, temp. max
Display			7 segments LED
Connections	Terminals		removable screw
	Max section	[mm²]	2.5
Insulation voltage		[V]	2500/50 Hz - 1 min
Protection degree	Front		IP52
	Rear		IP20
Operation temperature		[°C]	-10...+55, relative humidity max 90%
Storage temperature		[°C]	-25...+80
Reference			IEC EN 50081-2, IEC EN 50082-2, IEC EN 60255

Temperature control units

TMD are used measure and control the temperature levels and efficiency of electric machines, power transformers, motors, etc.
The temperature is measured by four PT100 type sensors. Each measuring channel has two programmable alarm thresholds which trip two output relays to remotely signal that a critical temperature has been reached.
The measured values and any alarm conditions are shown on the dual 3-digit display on the front of the device, which also has five programming keys for configuring its operation.
The control unit is also able to store in memory maximum values and a log of all trip-events.

Temperature measured	Bbn 8012542	Order details		Weight 1 piece	Pack unit
	EAN	Type code	Order code	kg	pc.
4	560203	TMD-4/96	2CSG524000R2021	0.8	1

Energy efficiency

Current transformers selection table

Breaker choice							
Modular	S200, S750DR, S800						
Tmax	XT1, XT2, XT3, XT4, T4320					T5	
Emax							

Installation choice							
Fixing system	DIN rail	DIN rail	DIN rail, cable or bus bar		Bus bar	DIN rail, cable or bus bar, base mounted with feet	








Rated current (A)	CTA	TRF M	CT PRO XT		CT30	CT MAX	
			Standard	SELV version		Standard	SELV version
20	2CSG111050R1141 CTA/20						
25	2CSG111060R1141 CTA/25						
40	2CSG111080R1141 CTA/40 (cl. 0.5)	2CSM100050R1111 TRFM/40	2CSG225745R1101 CT PRO XT 40	2CSG225845R1101 CT PRO XT 40 SELV			
50	2CSG111090R1141 CTA/50 (cl. 0.5)		2CSG225755R1101 CT PRO XT 50	2CSG225855R1101 CT PRO XT 50 SELV			
60	2CSG111100R1141 CTA/60 (cl. 0.5)	2CSM100070R1111 TRFM/60 (cl. 1)	2CSG225765R1101 CT PRO XT 60	2CSG225865R1101 CT PRO XT 60 SELV			
80	2CSG111110R1141 CTA/80 (cl. 0.5)		2CSG225775R1101 CT PRO XT 80	2CSG225875R1101 CT PRO XT 80 SELV			
100	2CSG111120R1141 CTA/100 (cl. 0.5)	2CSM100090R1111 TRFM/100	2CSG225785R1101 CT PRO XT 100	2CSG225885R1101 CT PRO XT 100 SELV	2CSG101100R1101 CT30/100 (cl. 3)		
150		2CSM100100R1111 TRFM/150	2CSG225795R1101 CT PRO XT 150	2CSG225895R1101 CT PRO XT 150 SELV	2CSG101110R1101 CT30/150 (cl. 3)		
200			2CSG225805R1101 CT PRO XT 200	2CSG225905R1101 CT PRO XT 200 SELV			
250		2CSM100120R1111 TRFM/250	2CSG225815R1101 CT PRO XT 250	2CSG225915R1101 CT PRO XT 250 SELV	2CSG101130R1101 CT30/250		
300			2CSG225825R1101 CT PRO XT 300	2CSG225925R1101 CT PRO XT 300 SELV		2CSG225945R1101 CT MAX 300	2CSG226005R1101 CT MAX 300 SELV

	T6,T7		T6,T7					
	E1.2, E2.2, E4.2			E2, E3, E4, E6	E2.2, E4.2, E6.2	E2.2, E4.2	E1.2	
		Cable or bus bar, base mounted with feet		Bus bar	Cable or bus bar, base mounted with feet		Bus bar	
								
	CT6	CT8	CT8V	CT80	CT12	CT12V	CT120	Class
								0,5
								0,5
								3
								3
								3
								3
								1
								0,5
								0,5
	2CSG421130R1101 CT6/250			2CSG201130R1101 CT80/250				0,5
	2CSG421140R1101 CT6/300							0,5

Energy efficiency

Current transformers selection table

Breaker choice

Modular	S200, S750DR, S800	
Tmax	XT1, XT2, XT3, XT4, T4320	T5
Emax		

Installation choice

Fixing system	DIN rail	DIN rail	DIN rail, cable or bus bar	Bus bar	DIN rail, cable or bus bar, base mounted with feet








Rated current (A)	CTA	TRF M	CT PRO XT		CT30	CT MAX	
			Standard	SELV version		Standard	SELV version
400		2CSM100140R1111 TRFM/400	2CSG225835R1101 CT PRO XT 400	2CSG225935R1101 CT PRO XT 400 SELV	2CSG101150R1101 CT30/400	2CSG225955R1101 CT MAX 400	2CSG226015R1101 CT MAX 400 SELV
500						2CSG225965R1101 CT MAX 500	2CSG226025R1101 CT MAX 500 SELV
600		2CSM100160R1111 TRFM/600				2CSG225975R1101 CT MAX 600	2CSG226035R1101 CT MAX 600 SELV
800						2CSG225985R1101 CT MAX 800	2CSG226045R1101 CT MAX 800 SELV
1000						2CSG225995R1101 CT MAX 1000	2CSG226055R1101 CT MAX 1000 SELV
1200							
1250							
1500							
2000							
2500							
3000							
4000							
5000							
6000							

Primary choice

	CTA	TRF M	CT PRO XT		CT30	CT MAX	
	Wound primary	Through primary			Split core trough primary	Through primary	
Through	8	29	18	18	–	30	30
primary max	–	–	20x10	20x10	–	30x15; 40x10	30x15; 40x10
section [mm]	–	–	–	–	3x80x10	–	–

T6,T7		T6,T7					
E1.2, E2.2, E4.2			E2, E3, E4, E6	E2.2, E4.2, E6.2	E2.2, E4.2	E1.2	

	Cable or bus bar, base mounted with feet		Bus bar	Cable or bus bar, base mounted with feet		Bus bar	
							
CT6	CT8	CT8V	CT80	CT12	CT12V	CT120	Class
2CSG421150R1101 CT6/400			2CSG201150R1101 CT80/400				0,5
2CSG421160R1101 CT6/500			2CSG201160R1101 CT80/500				0,5
2CSG421170R1101 CT6/600	2CSG521170R1101 CT8/600	2CSG631170R1101 CT8-V/600	2CSG201170R1101 CT80/600	2CSG721170R1101 CT12/600			0,5
2CSG421180R1101 CT6/800	2CSG521180R1101 CT8/800	2CSG631180R1101 CT8-V/800		2CSG721180R1101 CT12/800	2CSG831180R1101 CT12-V/800	2CSG401180R1101 CT120/800	0,5
2CSG421190R1101 CT6/1000	2CSG521190R1101 CT8/1000	2CSG631190R1101 CT8-V/1000	2CSG201190R1101 CT80/1000	2CSG721190R1101 CT12/1000	2CSG831190R1101 CT12-V/1000		0,5
2CSG421200R1101 CT6/1200	2CSG521200R1101 CT8/1200	2CSG631200R1101 CT8-V/1200		2CSG721200R1101 CT12/1200	2CSG831200R1101 CT12-V/1200	2CSG401200R1101 CT120/1200	0,5
					2CSG831210R1101 CT12-V/1250		0,5
2CSG421220R1101 CT6/1500	2CSG521220R1101 CT8/1500	2CSG631220R1101 CT8-V/1500		2CSG721220R1101 CT12/1500	2CSG831220R1101 CT12-V/1500	2CSG401220R1101 CT120/1500	0,5
2CSG421230R1101 CT6/2000	2CSG521230R1101 CT8/2000	2CSG631230R1101 CT8-V/2000		2CSG721230R1101 CT12/2000	2CSG831230R1101 CT12-V/2000		0,5
2CSG421240R1101 CT6/2500	2CSG521240R1101 CT8/2500	2CSG631240R1101 CT8-V/2500		2CSG721240R1101 CT12/2500	2CSG831240R1101 CT12-V/2500		0,5
	2CSG521250R1101 CT8/3000			2CSG721250R1101 CT12/3000	2CSG831250R1101 CT12-V/3000		0,5
				2CSG721260R1101 CT12/4000	2CSG831260R1101 CT12-V/4000		0,5
				2CSG721270R1101 CT12/5000			0,5
				2CSG721280R1101 CT12/6000			0,5

CT6	CT8	CT8V	CT80	CT12	CT12V	CT120
Through primary			Split core trough primary	Through primary		Split core trough primary
50	2x30	2x35	–	2x50	3x35	–
60x20	80x30	–	–	80x50; 100x50; 125x50	–	–
–	–	80x30; 3x80x5	2x30x10	–	125x30, 3x100x10, 4x100x5, 4x125x5	4x120x10

Energy efficiency

CT measurement current transformers with through primary



CT

Technical features				
		CT...	CTO	TRFM
Standard secondary current	[A]	5 A		
Max. voltage for operation	[kV]	1,2		
Test voltage	[kV]	3 a 50 Hz/1min		
Residual current voltage at secundary terminals when security circuit intervenes (only SELV versions)		< 25 V rms		
Short circuit rated thermal current	[IpN]	40 per 1 sec.	60 per 1 sec.	40 per 1 sec.
Short circuit rated dynamic current	[Ith]	2,5 per 1 sec.		
Permanent overload	[IpN]	1,2		
Safety factor	[Fs]	from ≤ 2 to ≤ 10 depending on the type and capacity		
Frequency	[Hz]	50-60		
Air insulation class		Class E	B	E
Terminals		primary P1 - P2 (K - L); secondary s1 - s2 (k - l)		
		P1 (K) primary winding input		
		s1 (k) secondary winding input		
		P2 (L) primary winding output		
		s2 (l) secondary winding output		
Housing		Self-extinguishing thermoplastic resin V0		
Protection degree		IP30	IP20	IP20
Operating temperature	[°C]	-5...+50	-5...+50	-25...+50
Max. temperature on bars	[°C]	70°C		
Storage temperature	[°C]	-20...+80	-20...+80	-40...+80
Relative humidity		80%		
Reference standard		IEC EN 60044-1, IEC EN 61010-1		
Secondary protection circuit reference standards (only SELV versions)		IEC60364; IEC473.1.4; IEC556.3; CEI64-8-4;		
		CEI411.1.4.3; CEI411.5.2; CEI411.2; CEI473.1.4; CEI473.2.3		

CT and CTA current transformers

Used to transform primary currents (max. 6000 A) into .../5 A low secondary currents indirectly supplying power to analogue and digital measurement devices. They are available both with wound and through primary. In the first case they are provided along with the bar or the primary terminal; in the second case they have a hole to insert in the bar or the cable which forms the primary.

The rated current to the secondary windings is 5 A, in line with the offer of measuring devices. CT ../1 are not employable with ABB mono-function and multifunction measuring devices. The use of CT ../1 is needed in case of long wirings from CT secondary windings to the measuring device; nowadays, the wide use of communication protocols doesn't require the instrument to be installed far from the line to measure.

The new SELV versions of the CT PRO XT and CT MAX guarantee maximum safety against overvoltage and switchboard internal overheating thanks to the innovative electronic protection circuit which automatically short-circuit the CT secondary winding in case of accidental disconnection of its secondary terminals.

Energy efficiency

CT measurement current transformers with through primary



CT PRO XT

Standard type current transformers .../5 A with through primary

CT PRO XT .../5 A series, through primary							
Primary rated current Iprim A	Accurancy class	Rated power	Bbn 8012542	Order details		Weight 1 piece	Pack unit
		VA	EAN	Type code	Order code	kg	pc.
40	3	2	257455	CT PRO XT 40	2CSG225745R1101	0.32	1
50	3	2	257554	CT PRO XT 50	2CSG225755R1101	0.32	1
60	3	2	257653	CT PRO XT 60	2CSG225765R1101	0.32	1
80	3	2	257752	CT PRO XT 80	2CSG225775R1101	0.32	1
100	1	3	257851	CT PRO XT 100	2CSG225785R1101	0.32	1
150	1	5	257950	CT PRO XT 150	2CSG225795R1101	0.32	1
200	1	5	258056	CT PRO XT 200	2CSG225805R1101	0.32	1
250	0.5	5	258155	CT PRO XT 250	2CSG225815R1101	0.32	1
300	0.5	5	258155	CT PRO XT 300	2CSG225825R1101	0.32	1
400	0.5	5	258353	CT PRO XT 400	2CSG225835R1101	0.32	1

CT PRO XT SELV .../5 A series, through primary							
Primary rated current Iprim A	Accurancy class	Rated power	Bbn 8012542	Order details		Weight 1 piece	Pack unit
		VA	EAN	Type code	Order code	kg	pc.
40	3	2	258452	CT PRO XT 40 SELV	2CSG225845R1101	0.37	1
50	3	2	258551	CT PRO XT 50 SELV	2CSG225855R1101	0.37	1
60	3	2	258650	CT PRO XT 60 SELV	2CSG225865R1101	0.37	1
80	3	2	258650	CT PRO XT 80 SELV	2CSG225875R1101	0.37	1
100	1	3	258858	CT PRO XT 100 SELV	2CSG225885R1101	0.37	1
150	1	5	258957	CT PRO XT 150 SELV	2CSG225895R1101	0.37	1
200	1	5	259053	CT PRO XT 200 SELV	2CSG225905R1101	0.37	1
250	0.5	5	259152	CT PRO XT 250 SELV	2CSG225915R1101	0.37	1
300	0.5	5	259251	CT PRO XT 300 SELV	2CSG225925R1101	0.37	1
400	0.5	5	259350	CT PRO XT 400 SELV	2CSG225935R1101	0.37	1

CT PRO XT series		
Through primary		max section [mm]
cable	○	18
horizontal bar	▭	20x10
vertical bar	▯	-

Energy efficiency

CT measurement current transformers with through primary



CT MAX

CT MAX .../5 A series, through primary

Primary rated current Iprim A	Accurancy class	Rated power VA	Bbn 8012542 EAN	Order details Type code	Order details Order code	Weight 1 piece kg	Pack unit pc.
300	0,5	4	259459	CT MAX 300	2CSG225945R1101	0,32	1
400	0,5	5	259558	CT MAX 400	2CSG225955R1101	0,32	1
500	0,5	6	259558	CT MAX 500	2CSG225965R1101	0,32	1
600	0,5	10	259657	CT MAX 600	2CSG225975R1101	0,32	1
800	0,5	10	259657	CT MAX 800	2CSG225985R1101	0,32	1
1000	0,5	10	259954	CT MAX 1000	2CSG225995R1101	0,32	1

CT MAX SELV .../5 A series, through primary

Primary rated current Iprim A	Accurancy class	Rated power VA	Bbn 8012542 EAN	Order details Type code	Order details Order code	Weight 1 piece kg	Pack unit pc.
300	0,5	4	260059	CT MAX 300 SELV	2CSG226005R1101	0,37	1
400	0,5	5	260158	CT MAX 400 SELV	2CSG226015R1101	0,37	1
500	0,5	6	260257	CT MAX 500 SELV	2CSG226025R1101	0,37	1
600	0,5	10	260356	CT MAX 600 SELV	2CSG226035R1101	0,37	1
800	0,5	10	260455	CT MAX 800 SELV	2CSG226045R1101	0,37	1
1000	0,5	10	260554	CT MAX 1000 SELV	2CSG226055R1101	0,37	1

CT MAX series

Through primary		max section [mm]
cable	◯	30
horizontal bar	▭	30x15, 40x10
vertical bar	▯	-

Energy efficiency

CT measurement current transformers with through primary



CT6



CT8



CT8/V

CT6 .../5 A series, through primary

Primary rated current Iprim A	Accurancy class	Rated power VA	Bbn 8012542 EAN	Order details Type code	Order code	Weight 1 piece kg	Pack unit pc.
250	0.5	5	605508	CT6/250	2CSG421130R1101	1.000	1
300	0.5	5	605607	CT6/300	2CSG421140R1101	1.000	1
400	0.5	6	605706	CT6/400	2CSG421150R1101	1.000	1
500	0.5	6	605805	CT6/500	2CSG421160R1101	1.000	1
600	0.5	10	605904	CT6/600	2CSG421170R1101	1.000	1
800	0.5	10	606000	CT6/800	2CSG421180R1101	1.000	1
1000	0.5	20	606109	CT6/1000	2CSG421190R1101	1.000	1
1200	0.5	20	606208	CT6/1200	2CSG421200R1101	1.000	1
1500	0.5	30	606307	CT6/1500	2CSG421220R1101	1.000	1
2000	0.5	30	606406	CT6/2000	2CSG421230R1101	1.000	1
2500	0.5	30	606505	CT6/2500	2CSG421240R1101	1.000	1

CT8 .../5 A series, through primary

Primary rated current Iprim A	Accurancy class	Rated power VA	Bbn 8012542 EAN	Order details Type code	Order code	Weight 1 piece kg	Pack unit pc.
600	0.5	10	606901	CT8/600	2CSG521170R1101	1.000	1
800	0.5	10	607007	CT8/800	2CSG521180R1101	1.000	1
1000	0.5	10	607106	CT8/1000	2CSG521190R1101	1.000	1
1200	0.5	15	607205	CT8/1200	2CSG521200R1101	1.000	1
1500	0.5	20	607304	CT8/1500	2CSG521220R1101	1.000	1
2000	0.5	20	607403	CT8/2000	2CSG521230R1101	1.000	1
2500	0.5	20	607502	CT8/2500	2CSG521240R1101	1.000	1
3000	0.5	20	607601	CT8/3000	2CSG521250R1101	1.000	1

CT8-V .../5 A series, through primary

Primary rated current Iprim A	Accurancy class	Rated power VA	Bbn 8012542 EAN	Order details Type code	Order code	Weight 1 piece kg	Pack unit pc.
600	0.5	10	608905	CT8-V/600	2CSG631170R1101	0.800	1
800	0.5	10	609001	CT8-V/800	2CSG631180R1101	0.800	1
1000	0.5	10	609100	CT8-V/1000	2CSG631190R1101	0.800	1
1200	0.5	10	609209	CT8-V/1200	2CSG631200R1101	0.800	1
1500	0.5	10	609308	CT8-V/1500	2CSG631220R1101	0.800	1
2000	0.5	20	609407	CT8-V/2000	2CSG631230R1101	0.800	1
2500	0.5	20	609506	CT8-V/2500	2CSG631240R1101	0.800	1

CT6 series

Through primary		max section [mm]
cable	○	50
horizontal bar	▭	60x20
vertical bar	▯	-

CT8 series

Through primary		max section [mm]
cable	○	2x30
horizontal bar	▭	80x30
vertical bar	▯	-

CT8-V series

Through primary		max section [mm]
cable	○	2x35
horizontal bar	▭	-
vertical bar	▯	80x30 3x80x5

Energy efficiency

CT measurement current transformers with through primary



CT12



CT12/V

CT12 .../5 A series, through primary							
Primary rated current Iprim A	Accurancy class	Rated power	Bbn 8012542	Order details		Weight 1 piece	Pack unit
		VA	EAN	Type code	Order code	kg	pc.
600	0.5	10	607809	CT12/600	2CSG721170R1101	1.600	1
800	0.5	15	607908	CT12/800	2CSG721180R1101	1.600	1
1000	0.5	20	608004	CT12/1000	2CSG721190R1101	1.600	1
1200	0.5	20	608103	CT12/1200	2CSG721200R1101	1.600	1
1500	0.5	20	608202	CT12/1500	2CSG721220R1101	1.600	1
2000	0.5	30	608301	CT12/2000	2CSG721230R1101	1.600	1
2500	0.5	40	608400	CT12/2500	2CSG721240R1101	1.600	1
3000	0.5	40	608509	CT12/3000	2CSG721250R1101	1.600	1
4000	0.5	50	608608	CT12/4000	2CSG721260R1101	2.000	1
5000	0.5	50	745600	CT12/5000	2CSG721270R1101	3.000	1
6000	0.5	50	745709	CT12/6000	2CSG721280R1101	3.000	1

CT12-V .../5 A series, through primary							
Primary rated current Iprim A	Accurancy class	Rated power	Bbn 8012542	Order details		Weight 1 piece	Pack unit
		VA	EAN	Type code	Order code	kg	pc.
800	0.5	10	609605	CT12-V/800	2CSG831180R1101	0.700	1
1000	0.5	10	609704	CT12-V/1000	2CSG831190R1101	0.700	1
1200	0.5	10	609803	CT12-V/1200	2CSG831200R1101	0.700	1
1250	0.5	10	609902	CT12-V/1250	2CSG831210R1101	0.700	1
1500	0.5	12	610007	CT12-V/1500	2CSG831220R1101	0.700	1
2000	0.5	15	610106	CT12-V/2000	2CSG831230R1101	1.000	1
2500	0.5	20	610205	CT12-V/2500	2CSG831240R1101	1.000	1
3000	0.5	20	610304	CT12-V/3000	2CSG831250R1101	1.000	1
4000	0.5	20	745808	CT12-V/4000*	2CSG831260R1101	1.000	1

* Air insulation class: Class B

CT12 series

Through primary		max section [mm] up to 4000A	max section [mm] 5000 and 6000 A
cable	○	2x50	-
horizontal bar	▭	125x50	120x10, 2x120x10, 3x120x10
vertical bar	▯	-	200x10, 2x200x10, 3x200x10

CT12-V series

Through primary		max section [mm]
cable	○	3x35
horizontal bar	▭	-
vertical bar	▯	125x30, 3x100x10, 4x125x5

Energy efficiency

CTA measurement current transformers with wound primary



CTA/25

Standard type current transformers .../5 A with wound primary

CTA .../5 A series, wound primary with insertion on Ø8 MA bolt							
Primary rated current Iprim	Accurancy class	Rated power	Bbn 8012542	Order details		Weight 1 piece	Pack unit
A		VA	EAN	Type code	Order code	kg	pc.
10	0.5	5	661405	CTA/10	2CSG111030R1141	0.290	1
20	0.5	5	661603	CTA/20	2CSG111050R1141	0.290	1
25	0.5	5	661702	CTA/25	2CSG111060R1141	0.290	1
40	0.5	5	661801	CTA/40	2CSG111080R1141	0.290	1
50	0.5	5	661900	CTA/50	2CSG111090R1141	0.290	1
60	0.5	5	662006	CTA/60	2CSG111100R1141	0.290	1
80	0.5	5	662105	CTA/80	2CSG111110R1141	0.290	1
100	0.5	5	662204	CTA/100	2CSG111120R1141	0.290	1

CTA series

Wound primary		max section [mm]
cable	○	8
horizontal bar	▭	-
vertical bar	▯	-

Energy efficiency

CTO split core measurement current transformers



CT30



CT80



CT120

Split core measurement current transformers with through primary

Split core measurement current transformers are used in distribution panels or power c enters for maintenance or system expansion. They can be installed easily and they allows to save a lot of time, avoiding bar disconnection. All transformers are complete with terminal caps and fastening accessories, both on bar and on wall.

CT30/...5 A Split core current transformers

Primary rated current Iprim A	Accurancy class	Rated power VA	Bbn 8012542 EAN	Order details Type code	Order code	Weight 1 piece kg	Pack unit pc.
100	3	1.5	887805	CT30/100	2CSG101100R1101	0.85	1
150	3	2	887904	CT30/150	2CSG101110R1101	0.85	1
250	0.5	1.5	888109	CT30/250	2CSG101130R1101	0.85	1
400	0.5	2.5	888000	CT30/400	2CSG101150R1101	0.85	1

CT80/...5 A Split core current transformers

Primary rated current Iprim A	Accurancy class	Rated power VA	Bbn 8012542 EAN	Order details Type code	Order code	Weight 1 piece kg	Pack unit pc.
250	0.5	1	888208	CT80/250	2CSG201130R1101	1.1	1
400	0.5	1.5	888307	CT80/400	2CSG201150R1101	1.1	1
500	0.5	2.5	888406	CT80/500	2CSG201160R1101	1.1	1
600	0.5	2.5	888505	CT80/600	2CSG201170R1101	1.1	1
1000	0.5	5	888703	CT80/1000	2CSG201190R1101	1.1	1

CT120/...5 A Split core current transformers

Primary rated current Iprim A	Accurancy class	Rated power VA	Bbn 8012542 EAN	Order details Type code	Order code	Weight 1 piece kg	Pack unit pc.
800	0.5	3	889304	CT120/800	2CSG401180R1101	1.3	1
1200	0.5	6	889502	CT120/1200	2CSG401200R1101	1.3	1
1500	0.5	8	889601	CT120/1500	2CSG401220R1101	1.3	1

CT30 series

Through primary	
	○
	▭
	▯

CT80 series

Through primary	
	○
	▭
	▯

CT120 series

Through primary		max section [mm]
cable	○	
horizontal bar	▭	
vertical bar	▯	4x120x10

Energy efficiency

TRF M measurement modular current transformers



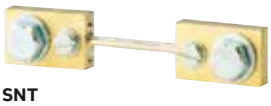
TRF M

Modular current transformers with Ø 29 mm through primary, secondary .../5A
TRF M are modular current transformers with through primary for measuring instruments. Their compact size and quick DIN rail plug allow easy installation along with great measurement precision.

Primary rated current Iprim	Accurancy class	Rated power	Bbn 8012542	Order details		Weight 1 piece	Pack unit
A		VA	EAN	Type code	Order code	kg	pc.
40	3	1	046912	TRFM/40	2CSM100050R1111	0.250	1
60	1	2	047018	TRFM/60	2CSM100070R1111	0.250	1
100	0.5	2	047117	TRFM/100	2CSM100090R1111	0.250	1
150	0.5	3	047216	TRFM/150	2CSM100100R1111	0.250	1
250	0.5	4	047315	TRFM/250	2CSM100120R1111	0.250	1
400	0.5	6	047407	TRFM/400	2CSM100140R1111	0.250	1
600	0.5	8	047506	TRFM/600	2CSM100160R1111	0.250	1

Energy efficiency

SNT current transformer for d.c. applications



SNT

Technical features		
Voltage	[mV]	60
Current rating	[A]	from 5 to 1000
Accuracy class		0.5 (from 10 to 30 °C)
Max. load	[Ω]	0.25
Overload for 5 sec.		from 10 to 500 A : 1xIn
		from 600 to 1000 A: 5xIn

Shunts

Shunts have 60 mV voltage and must be used with a maximum load of 0.25 Ω in combination with measurement instruments in d.c.

For an appropriate operation:

- both horizontal and vertical mounting are possible (the horizontal position enables a greater heat consumption)
- the faying surface must be completely used and clean; cover with specific grease after the connection
- screws and bolts must be perfectly tight
- shunts must be sufficiently ventilated; as they are not insulated, it is a good rule to protect them against accidental contacts.

60 mV shunts					
Rated current	Bbn 8012542	Order details		Weight 1 piece	Pack unit
A	EAN	Type code	Order code	kg	pc.
10	047803	SNT 1/10	2CSM100030R1121	1.800	1
50	048404	SNT 1/50	2CSM100090R1121	2.200	1
100	048701	SNT 1/100	2CSM100120R1121	1.300	1
150	048800	SNT 1/150	2CSM100130R1121	1.300	1
400	049104	SNT 1/400	2CSM100160R1121	1.900	1
800	049401	SNT 1/800	2CSM100190R1121	2.200	1
1000	049500	SNT 1/1000	2CSM100200R1121	2.200	1

Electrical installation solutions for buildings
SMISSLINE TP plug-in system

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Plug-in system

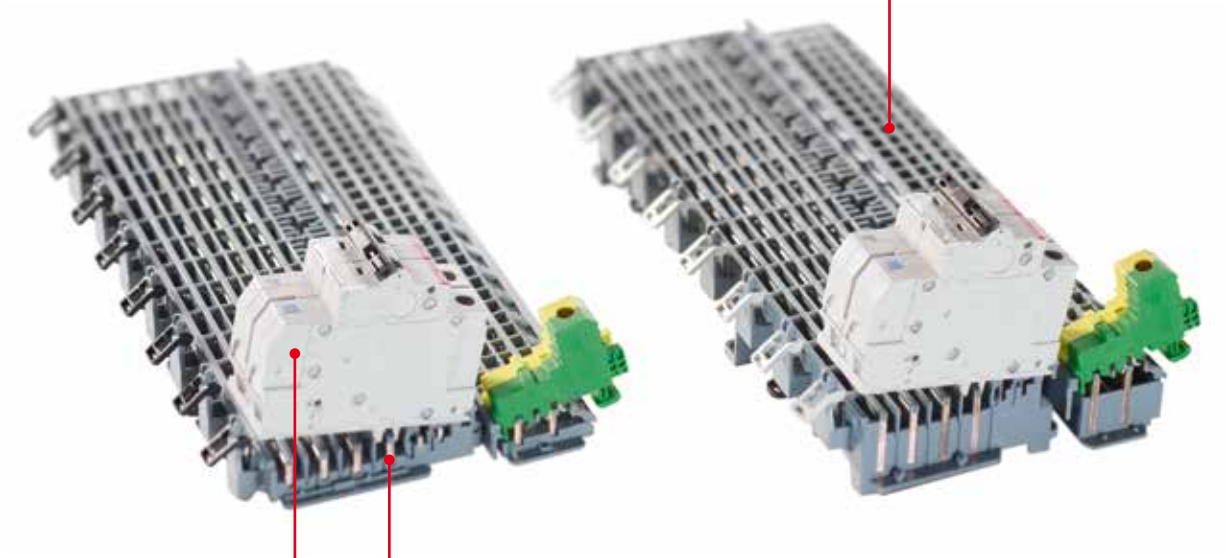
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SMISSLINE TP plug-in system
Changes are never been easier

SMISSLINE TP ensures that load-free devices and components can be snapped on and off under voltage without the need for additional personal protective equipment to guard against electrical hazards.

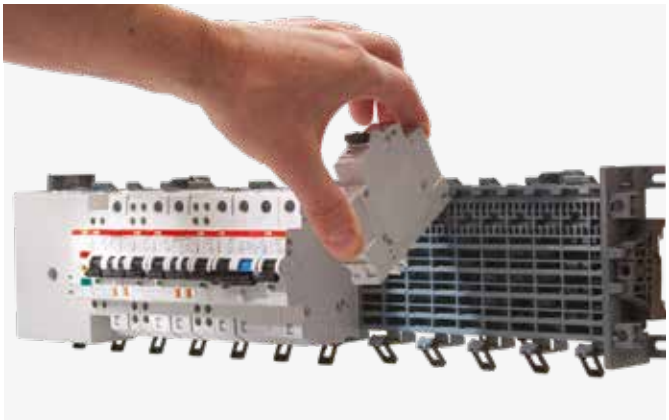


It opens up to a completely new prospects for you when it comes to installation, operation and flexibility.

The world's first pluggable socket system. 125Asystem and the new 250A Power Bar system.

SMISSLINE TP plug-in system
Changes are never been easyer



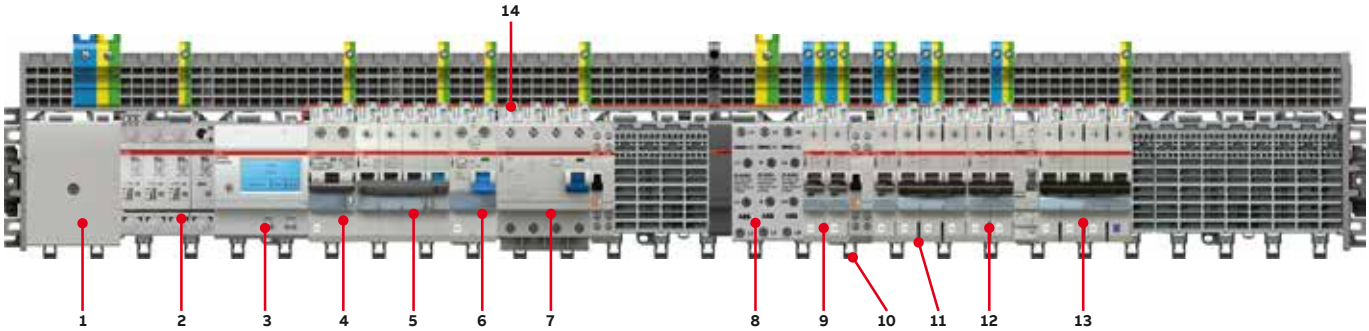


Even safer: Protection against electrical hazards
We have upgraded our unique SMISSLINE socket system even further through the addition of a pioneering innovation. With the new SMISSLINE TP system, components can now be plugged in or unplugged load-free without any risk from electrical current running through the body.

The SMISSLINE TP pluggable socket system is completely finger-safe (IP2XB) – when devices are plugged in and unplugged, the system is always touch-proof. This means that SMISSLINE TP prevents any danger to personnel from switching arcs or accidental arcing.

Even more flexible: make additions and changes during on-going operation
Pluggable devices can be added and changed quickly, safely and simply during ongoing operation. And this can be done without any need for personal protective equipment.

This means that you benefit from more flexibility, savings on installation and maintenance – and improved safety. SMISSLINE TP provides greater availability and operating safety than conven-tional systems.



1 Incoming block 125/160 A
2 Surge arrester
3 Control unit for Current measurement system
4 2-pole residual current operated circuit breaker with overcurrent protection
5 4-pole residual current operated circuit breaker with overcurrent protection
6 2-pole residual current operated circuit breaker
7 4-pole residual current operated circuit breaker
8 Incoming block 63 A
9 Miniature circuit breaker 1 pole
10 Device latch
11 Miniature circuit breaker 3 poles
12 Miniature circuit breaker 2 poles
13 4-pole residual current operated circuit breaker with overcurrent protection
14 Current measurement sensor

Power behind bars
The world’s safest socket system

Small cause, large effect: as the world’s first pluggable socket system, SMISSLINE TP ensures that load-free devices and components can be snapped on and off under voltage without the need for additional personal protective equipment to guard against electrical hazards. That opens up completely new prospects for you when it comes to installation, operation and flexibility.

New Power Bar System 250 A
The new 250 A system is now available in the shape of the SMISSLINE TP. The busbars have a rated amperage of 250 A and therefore allow a end feed of 250 A. This extends the spectrum of potential applications.



Miniature circuit breaker (MCB) for IEC

S400E technical features

When installed correctly the requirements of EN/IEC 61439-2 are met.

	S400E
General data	
Tripping characteristics	B,C
Poles	1P, 1P+NP, 2P, 3P, 3P+NP
Rated current I_n	6A … 63A
Rated frequency f	50/60Hz
Rated insulation voltage U_i acc. to DIN EN 60664-1	440VAC
Rated impulse withstand voltage $U_{imp.}$ (1.2/50µs)	4kV
Overvoltage category	III
Pollution degree	3
Data acc. to IEC/EN 60898-1	
Rated operational voltage U_e	1P: 230/400VAC; 1P+NP: 230VAC ; 2...3P: 400VAC; 3P+NP: 400VAC; 1P 72VDC; 2P 125VDC
Min. operating voltage	12VAC
Rated short-circuit capacity I_{cn}	10kA
Energy limiting class	3
Reference Ambient Air Temperature for Overload Tripping	B, C, D: 30°C
Mechanical Data	
Classification acc. To NF F 126-101, NF F 16-102	Acc. to I2/F3
IP Code	IP20, IP40 in enclosure with cover
Endurance	Electrical endurance: 10000ops Mechanical endurance: 10000ops
Shock resistance acc. to IEC/EN 61373	5g – 30ms, 3 shocks
Vibration resistance acc. to IEC/EN 60068-2-6	2…13.2Hz / 1mm 13.2…100Hz / 0.7g, 5 cycles 5…150…5Hz / 1g, 4 waves
Ambient temperature	–25…+60°C
Storage temperature	–40…+70°C
Installation	
Terminal type	Failsafe bi-directional cylinder-lift terminal (shock protected)
Terminal rigid IEC connections (solid/stranded)	Single: 0.75 … 35mm² (front slot), 0.75 … 6mm² (rear slot) Multiple: 2x0.75 … 10mm² (front slot), 2x0.75 … 6mm² (rear slot), with cables of same type and size
Terminal flexible IEC connections	Single: 0.75 … 25mm² (front side), 0.75 … 6mm² (rear slot) Multiple: 2x0.75 … 10mm² (front slot), 2x0.75 … 6mm² (rear slot), with cables of same type and size
Tightening torque	2.8Nm
Screwdriver	No. 2 Pozidrive
Mounting	Plug in on bus bar system SMISSLINE
Mounting position	Any
Supply	Any
Dimensions and weight	
Pole dimensions (HxDxW)	91x18x82
Pole weight	110g

Miniature circuit breaker (MCB)

S400E 6 kA

B according to EN 60898-1

	I_{cn} [kA]	I_n [A]	Type name	ABB IT number	EAN number 761227	Packaging unit	Module	Weight in grams
 S401E	6	6	S401E-B6	2CCS551001R0065	0101009	10	1	110
	6	8	S401E-B8	2CCS551001R0085	010 8442	10	1	110
	6	10	S401E-B10	2CCS551001R0105	0101016	10	1	110
	6	13	S401E-B13	2CCS551001R0135	0101023	10	1	110
	6	16	S401E-B16	2CCS551001R0165	0101030	10	1	110
	6	20	S401E-B20	2CCS551001R0205	0101047	10	1	110
	6	25	S401E-B25	2CCS551001R0255	0101054	10	1	110
	6	32	S401E-B32	2CCS551001R0325	0101061	10	1	110
	6	40	S401E-B40	2CCS551001R0405	0101078	10	1	110
	6	50	S401E-B50	2CCS551001R0505	0101085	10	1	110
	6	63	S401E-B63	2CCS551001R0635	0101092	10	1	110
 S402E	6	6	S402E-B6	2CCS552001R0065	0101771	5	2	221
	6	8	S402E-B8	2CCS552001R0085	010 8459	5	2	221
	6	10	S402E-B10	2CCS552001R0105	0101788	5	2	221
	6	13	S402E-B13	2CCS552001R0135	0101795	5	2	221
	6	16	S402E-B16	2CCS552001R0165	0101801	5	2	221
	6	20	S402E-B20	2CCS552001R0205	0101818	5	2	221
	6	25	S402E-B25	2CCS552001R0255	0101825	5	2	221
	6	32	S402E-B32	2CCS552001R0325	0101832	5	2	221
	6	40	S402E-B40	2CCS552001R0405	0101849	5	2	221
	6	50	S402E-B50	2CCS552001R0505	0101856	5	2	221
	6	63	S402E-B63	2CCS552001R0635	0101863	5	2	221
 S403E	6	6	S403E-B6	2CCS553001R0065	010 2549	3	3	322
	6	8	S403E-B8	2CCS553001R0085	010 8466	3	3	322
	6	10	S403E-B10	2CCS553001R0105	010 2556	3	3	322
	6	13	S403E-B13	2CCS553001R0135	010 2563	3	3	322
	6	16	S403E-B16	2CCS553001R0165	010 2570	3	3	322
	6	20	S403E-B20	2CCS553001R0205	010 2587	3	3	322
	6	25	S403E-B25	2CCS553001R0255	010 2594	3	3	322
	6	32	S403E-B32	2CCS553001R0325	010 2600	3	3	322
	6	40	S403E-B40	2CCS553001R0405	010 2617	3	3	322
	6	50	S403E-B50	2CCS553001R0505	010 2624	3	3	322
	6	63	S403E-B63	2CCS553001R0635	010 2631	3	3	322

Miniature circuit breaker (MCB)

S400E 6 kA

C according to EN 60898-1

	I_{cn} [kA]	I_n [A]	Type name	ABB IT number	EAN number 761227	Pack-aging unit	Module	Weight in grams
 **S401E**	6	6	S401E-C6	2CCS551001R0064	0101108	10	1	110
	6	8	S401E-C8	2CCS551001R0084	0101115	10	1	110
	6	10	S401E-C10	2CCS551001R0104	0101122	10	1	110
	6	13	S401E-C13	2CCS551001R0134	0101139	10	1	110
	6	16	S401E-C16	2CCS551001R0164	0101146	10	1	110
	6	20	S401E-C20	2CCS551001R0204	0101153	10	1	110
	6	25	S401E-C25	2CCS551001R0254	0101160	10	1	110
	6	32	S401E-C32	2CCS551001R0324	0101177	10	1	110
	6	40	S401E-C40	2CCS551001R0404	0101184	10	1	110
	6	50	S401E-C50	2CCS551001R0504	0101191	10	1	110
	6	63	S401E-C63	2CCS551001R0634	0101207	10	1	110
 **S402E** 	6	6	S402E-C6	2CCS552001R0064	0101870	5	2	221
	6	8	S402E-C8	2CCS552001R0084	0101887	5	2	221
	6	10	S402E-C10	2CCS552001R0104	0101894	5	2	221
	6	13	S402E-C13	2CCS552001R0134	0101900	5	2	221
	6	16	S402E-C16	2CCS552001R0164	0101917	5	2	221
	6	20	S402E-C20	2CCS552001R0204	0101924	5	2	221
	6	25	S402E-C25	2CCS552001R0254	0101931	5	2	221
	6	32	S402E-C32	2CCS552001R0324	0101948	5	2	221
	6	40	S402E-C40	2CCS552001R0404	0101955	5	2	221
	6	50	S402E-C50	2CCS552001R0504	0101962	5	2	221
	6	63	S402E-C63	2CCS552001R0634	0101979	5	2	221
 **S403E** 	6	6	S403E-C6	2CCS553001R0064	0102648	3	3	322
	6	8	S403E-C8	2CCS553001R0084	0102655	3	3	322
	6	10	S403E-C10	2CCS553001R0104	0102662	3	3	322
	6	13	S403E-C13	2CCS553001R0134	0102679	3	3	322
	6	16	S403E-C16	2CCS553001R0164	0102686	3	3	322
	6	20	S403E-C20	2CCS553001R0204	0102693	3	3	322
	6	25	S403E-C25	2CCS553001R0254	0102709	3	3	322
	6	32	S403E-C32	2CCS553001R0324	0102716	3	3	322
	6	40	S403E-C40	2CCS553001R0404	0102723	3	3	322
	6	50	S403E-C50	2CCS553001R0504	0102730	3	3	322
	6	63	S403E-C63	2CCS553001R0634	0102747	3	3	322

Miniature circuit breaker (MCB)

S400E with protected neutral 6 kA

C according to EN 60898-1

	I_{cn} [kA]	I_n [A]	Type name	ABB IT number	EAN number 761227	Packaging unit	Module	Weight in grams
	6	10	S401E-C10NP	2CCS551103R8104	1442750	5	2	221
	6	13	S401E-C13NP	2CCS551103R8134	1442767	5	2	221
	6	16	S401E-C16NP	2CCS551103R8164	1442774	5	2	221
	6	20	S401E-C20NP	2CCS551103R8204	1442781	5	2	221
	6	25	S401E-C25NP	2CCS551103R8254	1442798	5	2	221
	6	32	S401E-C32NP	2CCS551103R8324	1442804	5	2	221
	6	40	S401E-C40NP	2CCS551103R8404	1442811	5	2	221
 **S401 E NP**	6	50	S401E-C50NP	2CCS551103R8504	1442828	5	2	221
	6	63	S401E-C63NP	2CCS551103R8634	1442835	5	2	221
	6	10	S403E-C10NP	2CCS553103R8104	1442842	2	4	428
	6	13	S403E-C13NP	2CCS553103R8134	1442859	2	4	428
	6	16	S403E-C16NP	2CCS553103R8164	1442866	2	4	428
	6	20	S403E-C20NP	2CCS553103R8204	1442873	2	4	428
	6	25	S403E-C25NP	2CCS553103R8254	1442880	2	4	428
	6	32	S403E-C32NP	2CCS553103R8324	1442897	2	4	428
	6	40	S403E-C40NP	2CCS553103R8404	1442903	2	4	428
 **S403 E NP**	6	50	S403E-C50NP	2CCS553103R8504	1442910	2	4	428
	6	63	S403E-C63NP	2CCS553103R8634	1443009	2	4	428

SMISSLINE TP plug-in system

MCBs S 400M and UC series

			S400M and S400 UC
General Data			IEC/EN 60898-1 S400 B,C,D,K°, IEC/EN 60947-2 S400 C,K,UCC, UCK
	Poles		1P, 1P+NP, 2P, 3P, 3P+NP
	Tripping characteristics		B,C,D,K, UCC, UCZ
	Rated current In	A	0.5 … 63
	Rated frequency f	Hz	50/60 Hz (162/3 on request)
	Rated insulation voltage Ui acc. to DIN EN 60664-1	V	400 VAC
	Rated impulse withstand voltage $U_{imp.}$ (1.2/50 µs)	kV	4 kV
	Overvoltage category		III
	Pollution degree		2
Data acc. to IEC/ EN 60898-1	Rated operational voltage Ue	V	1P: 230/400 V AC; 1P+N: 230 V AC ; 2...4P: 400 V AC; 3P+N: 400 V AC
	Max. power frequency recovery voltage ($_{Umax}$)	V	1P: 253 V AC; 1P+N: 253 V AC; 2P: 440 V AC; 3...4P: 440 V AC; 3P+N: 440 V AC; 1P: 72 V DC; 2P: 125 V DC
	Rated short-circuit capacity I_{cn}	kA	6 kA S400E 10 kA S400M
	Energy limiting class		3
	Reference temperature for tripping characteristics	°C	B, C, D: 30 °C
	Electrical and Mechanical Endurance	ops.	10 000 ops.
Data acc. to IEC/ EN 60947-2	Max. power frequency recovery voltage (U_{max})	V	254/440 V AC 1P: 60 V DC 2P: 125 V DC for S400M 1P: 125 V DC 2P: 250 V DC for S400 UCC and UCZ
	Rated ultimate short-circuit capacity I_{cu}	kA	25 kA (0,5 up to 16 A, 240/415 V)0,5 to 2 A 50 kA on request 15 kA (20 up to 63 A, 240/415 V) 15 kA (0,5 up to 16 A, 254/440 V) 6 kA (20 up to 63 A, 254/440 V) S400UC: 10 kA (0,5.63A, 220 V d.c. 1pole) S400UC: 20 kA (0,5.63A, 110 V d.c. 1pole) S400UC: 25 kA (0,5.63A, 220 V d.c. 2pole) S400UC: 10 kA (0,5.63A, 440 V d.c. 2pole) S400UC: 10 kA (0,5.63A, 230/400 V)
	Rated service short-circuit capacity I_{cs}	kA	15 kA (0,5 up to 16 A, 240/415 V) 7,5 kA (20 up to 63 A, 240/415 V) 6 kA (0,5 up to 16 A, 254/440 V) 3 kA (20 up to 63 A, 254/440 V S400UC: 10 kA (0,5.63A, 220 V d.c. 1pole) S400UC: 10 kA (0,5.63A, 110 V d.c. 1pole) S400UC: 20 kA (0,5.63A, 220 V d.c. 2pole) S400UC: 10 kA (0,5.63A, 440 V d.c. 2pole) S400UC: 6 kA (0,5.63A, 230/400 V)
	Dielectric test voltage	kV	
	Reference temperature for tripping characteristics	°C	C: 30 °C K: 40 °C
	Electrical and Mechanical Endurance	ops.	10 000 operating cycles
Mechanical Data	Housing		Insulation group I, RAL 7035
	Toggle		Insulation group II, black, sealable
	Classification acc. To NF F 126-101, NF F 16-102		
	Protection degree acc. to EN 60529		IP20*, IP40 in enclosure with cover
	Mechanical endurance	ops.	20 000 ops.
	Shock resistance acc. to IEC/EN 60068-2-30		
	Vibration resistance acc. to IEC/EN 60068-2-6		5 g – 20 cycles at 5 … 150 … 5 Hz with load 0.8 In
	Environmental conditions (damp heat)		
	acc. to IEC/EN 60068-2-30	°C/RH	28 cycles with 55 °C/90–96 % and 25 °C/95–100 %
	Ambient temperature	°C	–25 …+60 °C
	Storage temperature	°C	–40 … +70 °C
Installation	Standed Cross-section of conductors (top/bottom)	mm^2	Single: 0.75…35 mm^2 (front slot), 0.75…6 mm^2 (rear slot) Multiple: 2 x 0.75…10 mm^2 (front slot), 2 x 0.75…6 mm^2 (rear slot), with cables of same type and size
	Flexible Cross-section of conductors (top/bottom)	mm^2	Single: 0.75…25 mm^2 (front side), 0.75…6 mm^2 (rear slot) Multiple: 2 x 0.75…10 mm^2 (front slot), 2 x 0.75…6 mm^2 (rear slot), with cables of same type and size
	Tightening torque	Nm in-lbs.	2.8 Nm
	Screwdriver		No. 2 Pozidrive
	Mounting		plug in on bus bar system SMISSLINE
	Mounting position		any
	Supply		any
Dimensions and weight	Mounting dimensions acc. to DIN 43880		
	Pole dimensions (H x D x W)	mm	91x18x82
	Pole weight	g	110

SMISSLINE TP plug-in system

MCBs S 400 M series 10000 B characteristic



S 401 M



S 402 M



S 403 M

S400M Characteristic B

Function: protection and control of the circuits against overloads and short-circuits; protection for people and big length cables in TN and IT systems.

Applications: residential, commercial and industrial.

Standard: IEC/EN 60898

Icn=10 kA

Number of poles	Rated current	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	In A	EAN	Type code	Order code		kg	pc.
1	4	0101214	S401 M-B 4	2CCS571001R0045		0.110	10
	6	0101221	S401 M-B 6	2CCS571001R0065		0.110	10
	8	0108411	S401 M-B 8	2CCS571001R0085		0.110	10
	10	0101238	S401 M-B 10	2CCS571001R0105		0.110	10
	13	0101245	S401 M-B 13	2CCS571001R0135		0.110	10
	16	0101252	S401 M-B 16	2CCS571001R0165		0.110	10
	20	0101269	S401 M-B 20	2CCS571001R0205		0.110	10
	25	0101276	S401 M-B 25	2CCS571001R0255		0.110	10
	32	0101283	S401 M-B 32	2CCS571001R0325		0.110	10
	40	0101290	S401 M-B 40	2CCS571001R0405		0.110	10
	50	0101306	S401 M-B 50	2CCS571001R0505		0.110	10
	63	0101313	S401 M-B 63	2CCS571001R0635		0.110	10
2	4	0101986	S402 M-B 4	2CCS572001R0045		0.221	5
	6	0101993	S402 M-B 6	2CCS572001R0065		0.221	5
	8	0108428	S402 M-B 8	2CCS572001R0085		0.221	5
	10	0102006	S402 M-B 10	2CCS572001R0105		0.221	5
	13	0102013	S402 M-B 13	2CCS572001R0135		0.221	5
	16	0102020	S402 M-B 16	2CCS572001R0165		0.221	5
	20	0102037	S402 M-B 20	2CCS572001R0205		0.221	5
	25	0102044	S402 M-B 25	2CCS572001R0255		0.221	5
	32	0102051	S402 M-B 32	2CCS572001R0325		0.221	5
	40	0102068	S402 M-B 40	2CCS572001R0405		0.221	5
	50	0102075	S402 M-B 50	2CCS572001R0505		0.221	5
	63	0102082	S402 M-B 63	2CCS572001R0635		0.221	5
3	4	0102754	S403 M-B 4	2CCS573001R0045		0.322	3
	6	0102761	S403 M-B 6	2CCS573001R0065		0.322	3
	8	0108435	S403 M-B 8	2CCS573001R0085		0.322	3
	10	0102778	S403 M-B 10	2CCS573001R0105		0.322	3
	13	0102785	S403 M-B 13	2CCS573001R0135		0.322	3
	16	0102792	S403 M-B 16	2CCS573001R0165		0.322	3
	20	0102808	S403 M-B 20	2CCS573001R0205		0.322	3
	25	0102815	S403 M-B 25	2CCS573001R0255		0.322	3
	32	0102822	S403 M-B 32	2CCS573001R0325		0.322	3
	40	0102839	S403 M-B 40	2CCS573001R0405		0.322	3
	50	0102846	S403 M-B 50	2CCS573001R0505		0.322	3
	63	0102853	S403 M-B 63	2CCS573001R0635		0.322	3

SMISSLINE TP plug-in system

MCBs S 400 M series 10000 C characteristic



S401 M



S 402 M



S 403 M

S400M Characteristic C

Function: protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current.

Applications: residential, commercial and industrial.

Standard: IEC/EN 60898, IEC/EN 60947-2

Icn=10 kA

Number of poles	Rated current	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	In A	EAN	Type code	Order code		kg	pc.
1	0.5	0101320	S401 M-C 0.5	2CCS571001R0984		0.110	10
	1	0101337	S401 M-C 1	2CCS571001R0014		0.110	10
	1.6	0101344	S401 M-C 1.6	2CCS571001R0974		0.110	10
	2	0101351	S401 M-C 2	2CCS571001R0024		0.110	10
	3	0101368	S401 M-C 3	2CCS571001R0034		0.110	10
	4	0101375	S401 M-C 4	2CCS571001R0044		0.110	10
	6	0101382	S401 M-C 6	2CCS571001R0064		0.110	10
	8	0101399	S401 M-C 8	2CCS571001R0084		0.110	10
	10	0101405	S401 M-C 10	2CCS571001R0104		0.110	10
	13	0101412	S401 M-C 13	2CCS571001R0134		0.110	10
	16	0101429	S401 M-C 16	2CCS571001R0164		0.110	10
	20	0101436	S401 M-C 20	2CCS571001R0204		0.110	10
	25	0101443	S401 M-C 25	2CCS571001R0254		0.110	10
	32	0101450	S401 M-C 32	2CCS571001R0324		0.110	10
	40	0101467	S401 M-C 40	2CCS571001R0404		0.110	10
	50	0101474	S401 M-C 50	2CCS571001R0504		0.110	10
	63	0101481	S401 M-C 63	2CCS571001R0634		0.110	10
2	0.5	0102099	S402 M-C 0.5	2CCS572001R0984		0.221	5
	1	0102105	S402 M-C 1	2CCS572001R0014		0.221	5
	1.6	0102112	S402 M-C 1.6	2CCS572001R0974		0.221	5
	2	0102129	S402 M-C 2	2CCS572001R0024		0.221	5
	3	0102136	S402 M-C 3	2CCS572001R0034		0.221	5
	4	0102143	S402 M-C 4	2CCS572001R0044		0.221	5
	6	0102150	S402 M-C 6	2CCS572001R0064		0.221	5
	8	0102167	S402 M-C 8	2CCS572001R0084		0.221	5
	10	0102174	S402 M-C 10	2CCS572001R0104		0.221	5
	13	0102181	S402 M-C 13	2CCS572001R0134		0.221	5
	16	0102198	S402 M-C 16	2CCS572001R0164		0.221	5
	20	0102204	S402 M-C 20	2CCS572001R0204		0.221	5
	25	0102211	S402 M-C 25	2CCS572001R0254		0.221	5
	32	0102228	S402 M-C 32	2CCS572001R0324		0.221	5
	40	0102235	S402 M-C 40	2CCS572001R0404		0.221	5
	50	0102242	S402 M-C 50	2CCS572001R0504		0.221	5
	63	0102259	S402 M-C 63	2CCS572001R0634		0.221	5
3	0.5	0102860	S403 M-C 0.5	2CCS573001R0984		0.322	3
	1	0102877	S403 M-C 1	2CCS573001R0014		0.322	3
	1.6	0102884	S403 M-C 1.6	2CCS573001R0974		0.322	3
	2	0102891	S403 M-C 2	2CCS573001R0024		0.322	3
	3	0102907	S403 M-C 3	2CCS573001R0034		0.322	3
	4	0102914	S403 M-C 4	2CCS573001R0044		0.322	3
	6	0102921	S403 M-C 6	2CCS573001R0064		0.322	3
	8	0102938	S403 M-C 8	2CCS573001R0084		0.322	3
	10	0102945	S403 M-C 10	2CCS573001R0104		0.322	3
	13	0102952	S403 M-C 13	2CCS573001R0134		0.322	3
	16	0102969	S403 M-C 16	2CCS573001R0164		0.322	3
	20	0102976	S403 M-C 20	2CCS573001R0204		0.322	3
	25	0102983	S403 M-C 25	2CCS573001R0254		0.322	3
	32	0102990	S403 M-C 32	2CCS573001R0324		0.322	3
	40	0103003	S403 M-C 40	2CCS573001R0404		0.322	3
	50	0103010	S403 M-C 50	2CCS573001R0504		0.322	3
	63	0103027	S403 M-C 63	2CCS573001R0634		0.322	3

SMISSLINE TP plug-in system

MCBs S 400 M series 10000 D characteristic



S 401 M



S 402 M



S 403 M

S400M Characteristic D

Function: protection and control of the circuits against overloads and short-circuits; protection for circuits which supply loads with high inrush current at the circuit closing (LV/LV transformers, breakdown lamps).

Applications: residential, commercial and industrial.

Standard: IEC/EN 60898

Icn = 10 kA

Number of poles	Rated current	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	In A	EAN	Type code	Order code		kg	pc.
1	6	0101498	S401 M-D 6	2CCS571001R0061		0.110	10
	8	0101504	S401 M-D 8	2CCS571001R0081		0.110	10
	10	0101511	S401 M-D 10	2CCS571001R0101		0.110	10
	13	0101528	S401 M-D 13	2CCS571001R0131		0.110	10
	16	0101535	S401 M-D 16	2CCS571001R0161		0.110	10
	20	0101542	S401 M-D 20	2CCS571001R0201		0.110	10
	25	0101559	S401 M-D 25	2CCS571001R0251		0.110	10
	32	0101566	S401 M-D 32	2CCS571001R0321		0.110	10
	40	0101573	S401 M-D 40	2CCS571001R0401		0.110	10
	50	0101580	S401 M-D 50	2CCS571001R0501		0.110	10
	63	0101597	S401 M-D 63	2CCS571001R0631		0.110	10
2	6	0102266	S402 M-D 6	2CCS572001R0061		0.221	5
	8	0102273	S402 M-D 8	2CCS572001R0081		0.221	5
	10	0102280	S402 M-D 10	2CCS572001R0101		0.221	5
	13	0102297	S402 M-D 13	2CCS572001R0131		0.221	5
	16	0102303	S402 M-D 16	2CCS572001R0161		0.221	5
	20	0102310	S402 M-D 20	2CCS572001R0201		0.221	5
	25	0102327	S402 M-D 25	2CCS572001R0251		0.221	5
	32	0102334	S402 M-D 32	2CCS572001R0321		0.221	5
	40	0102341	S402 M-D 40	2CCS572001R0401		0.221	5
	50	0102358	S402 M-D 50	2CCS572001R0501		0.221	5
	63	0102365	S402 M-D 63	2CCS572001R0631		0.221	5
3	6	0103034	S403 M-D 6	2CCS573001R0061		0.322	3
	8	0103041	S403 M-D 8	2CCS573001R0081		0.322	3
	10	0103058	S403 M-D 10	2CCS573001R0101		0.322	3
	13	0103065	S403 M-D 13	2CCS573001R0131		0.322	3
	16	0103072	S403 M-D 16	2CCS573001R0161		0.322	3
	20	0103089	S403 M-D 20	2CCS573001R0201		0.322	3
	25	0103096	S403 M-D 25	2CCS573001R0251		0.322	3
	32	0103102	S403 M-D 32	2CCS573001R0321		0.322	3
	40	0103119	S403 M-D 40	2CCS573001R0401		0.322	3
	50	0103126	S403 M-D 50	2CCS573001R0501		0.322	3
	63	0103133	S403 M-D 63	2CCS573001R0631		0.322	3

SMISSLINE TP plug-in system

MCBs S 400 M series 5000-15000 K characteristic



S401 M



S 402 M



S 403 M

S400M Characteristic K

Function: protection and control of the circuits like motors, transformer and auxiliary circuits, against overloads and short-circuits. Advantages: no nuisance tripping in the case of functional peak currents up to 10xIn, depending on the series; through its highly sensitive thermostatic bimetal trip, the K-type characteristic offers protection to damageable elements in the overcurrent range; it also provides the best protection to cables and lines.

Applications: commercial and industrial.

Standard: IEC/EN 60947-2

Icu = 50 kA ≤ 2A, 25 kA for 3 A ≤ 16A, 15 kA for 32 A ≤ 63 A

Number of poles	Rated current	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	In A	EAN	Type code	Order code		kg	pc.
1	0.5	0101603	S401 M-K 0.5	2CCS571001R0157		0.110	10
	1	0101610	S401 M-K 1	2CCS571001R0217		0.110	10
	1.6	0101627	S401 M-K 1.6	2CCS571001R0257		0.110	10
	2	0101634	S401 M-K 2	2CCS571001R0277		0.110	10
	3	0101641	S401 M-K 3	2CCS571001R0317		0.110	10
	4	0101658	S401 M-K 4	2CCS571001R0337		0.110	10
	6	0101665	S401 M-K 6	2CCS571001R0377		0.110	10
	8	0101672	S401 M-K 8	2CCS571001R0407		0.110	10
	10	0101689	S401 M-K 10	2CCS571001R0427		0.110	10
	13	0101696	S401 M-K 13	2CCS571001R0447		0.110	10
	16	0101702	S401 M-K 16	2CCS571001R0467		0.110	10
	20	0101719	S401 M-K 20	2CCS571001R0487		0.110	10
	25	0101726	S401 M-K 25	2CCS571001R0517		0.110	10
	32	0101733	S401 M-K 32	2CCS571001R0537		0.110	10
	40	0101740	S401 M-K 40	2CCS571001R0557		0.110	10
	50	0101757	S401 M-K 50	2CCS571001R0577		0.110	10
	63	0101764	S401 M-K 63	2CCS571001R0597		0.110	10
2	0.5	0102372	S402 M-K 0.5	2CCS572001R0157		0.221	5
	1	0102389	S402 M-K 1	2CCS572001R0217		0.221	5
	1.6	0102396	S402 M-K 1.6	2CCS572001R0257		0.221	5
	2	0102402	S402 M-K 2	2CCS572001R0277		0.221	5
	3	0102419	S402 M-K 3	2CCS572001R0317		0.221	5
	4	0102426	S402 M-K 4	2CCS572001R0337		0.221	5
	6	0102433	S402 M-K 6	2CCS572001R0377		0.221	5
	8	0102440	S402 M-K 8	2CCS572001R0407		0.221	5
	10	0102457	S402 M-K 10	2CCS572001R0427		0.221	5
	13	0102464	S402 M-K 13	2CCS572001R0447		0.221	5
	16	0102471	S402 M-K 16	2CCS572001R0467		0.221	5
	20	0102488	S402 M-K 20	2CCS572001R0487		0.221	5
	25	0102495	S402 M-K 25	2CCS572001R0517		0.221	5
	32	0102501	S402 M-K 32	2CCS572001R0537		0.221	5
	40	0102518	S402 M-K 40	2CCS572001R0557		0.221	5
	50	0102525	S402 M-K 50	2CCS572001R0577		0.221	5
	63	0102532	S402 M-K 63	2CCS572001R0597		0.221	5
3	0.5	0103140	S403 M-K 0.5	2CCS573001R0157		0.322	3
	1	0103157	S403 M-K 1	2CCS573001R0217		0.322	3
	1.6	0103164	S403 M-K 1.6	2CCS573001R0257		0.322	3
	2	0103171	S403 M-K 2	2CCS573001R0277		0.322	3
	3	0103188	S403 M-K 3	2CCS573001R0317		0.322	3
	4	0103195	S403 M-K 4	2CCS573001R0337		0.322	3
	6	0103201	S403 M-K 6	2CCS573001R0377		0.322	3
	8	0103218	S403 M-K 8	2CCS573001R0407		0.322	3
	10	0103225	S403 M-K 10	2CCS573001R0427		0.322	3
	13	0103232	S403 M-K 13	2CCS573001R0447		0.322	3
	16	0103249	S403 M-K 16	2CCS573001R0467		0.322	3
	20	0103256	S403 M-K 20	2CCS573001R0487		0.322	3
	25	0103263	S403 M-K 25	2CCS573001R0517		0.322	3
	32	0103270	S403 M-K 32	2CCS573001R0537		0.322	3
	40	0103287	S403 M-K 40	2CCS573001R0557		0.322	3
	50	0103294	S403 M-K 50	2CCS573001R0577		0.322	3
	63	0103300	S403 M-K 63	2CCS573001R0597		0.322	3

SMISSLINE TP plug-in system

MCBs S 400 M series 10000 B characteristic



S401M-NP



S403M-NP

S400M Characteristic B-NP

Function: protection and control of the circuits against overloads and short-circuits; protection for people and big length cables in TN and IT systems. The neutral is full protected.

Applications: residential, commercial and industrial.

Standard: IEC/EN 60898

Icn = 10 kA

Number of poles	Rated current	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	In A	EAN	Type code	Order code		kg	pc.
2	6	0103317	S401 M-B 6NP	2CCS571103R8065		0.221	5
	8	0108473	S401 M-B 8NP	2CCS571103R8085		0.221	5
	10	0103324	S401 M-B 10NP	2CCS571103R8105		0.221	5
	13	0103331	S401 M-B 13NP	2CCS571103R8135		0.221	5
	16	0103348	S401 M-B 16NP	2CCS571103R8165		0.221	5
	20	0103355	S401 M-B 20NP	2CCS571103R8205		0.221	5
	25	0103362	S401 M-B 25NP	2CCS571103R8255		0.221	5
	32	0103379	S401 M-B 32NP	2CCS571103R8325		0.221	5
	40	0103386	S401 M-B 40NP	2CCS571103R8405		0.221	5
	50	0103393	S401 M-B 50NP	2CCS571103R8505		0.221	5
	63	0103409	S401 M-B 63NP	2CCS571103R8635		0.221	5
4	6	0103782	S403 M-B 6NP	2CCS573103R8065		0.428	2
	8	0108510	S403 M-B 8NP	2CCS573103R8085		0.428	2
	10	0103799	S403 M-B 10NP	2CCS573103R8105		0.428	2
	13	0103805	S403 M-B 13NP	2CCS573103R8135		0.428	2
	16	0103812	S403 M-B 16NP	2CCS573103R8165		0.428	2
	20	0103829	S403 M-B 20NP	2CCS573103R8205		0.428	2
	25	0103836	S403 M-B 25NP	2CCS573103R8255		0.428	2
	32	0103843	S403 M-B 32NP	2CCS573103R8325		0.428	2
	40	0103850	S403 M-B 40NP	2CCS573103R8405		0.428	2
	50	0103867	S403 M-B 50NP	2CCS573103R8505		0.428	2
	63	0103874	S403 M-B 63NP	2CCS573103R8635		0.428	2

SMISSLINE TP plug-in system

MCBs S 400 M series 10000 C characteristic



S401M-NP



S403M-NP

S400M Characteristic C-NP

Function: protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current. The neutral is full protected.

Applications: residential, commercial and industrial.

Standard: IEC/EN 60898, IEC/EN 60947-2

Icn = 10 kA

Number of poles	Rated current	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	In A	EAN	Type code	Order code		kg	pc.
2	2	0108480	S401 M-C 2NP	2CCS571103R8024		0.221	5
	3	0108497	S401 M-C 3NP	2CCS571103R8034		0.221	5
	4	0108503	S401 M-C 4NP	2CCS571103R8044		0.221	5
	6	0103416	S401 M-C 6NP	2CCS571103R8064		0.221	5
	8	0103423	S401 M-C 8NP	2CCS571103R8084		0.221	5
	10	0103430	S401 M-C 10NP	2CCS571103R8104		0.221	5
	13	0103447	S401 M-C 13NP	2CCS571103R8134		0.221	5
	16	0103454	S401 M-C 16NP	2CCS571103R8164		0.221	5
	20	0103461	S401 M-C 20NP	2CCS571103R8204		0.221	5
	25	0103478	S401 M-C 25NP	2CCS571103R8254		0.221	5
	32	0103485	S401 M-C 32NP	2CCS571103R8324		0.221	5
	40	0103492	S401 M-C 40NP	2CCS571103R8404		0.221	5
	50	0103508	S401 M-C 50NP	2CCS571103R8504		0.221	5
	63	0103515	S401 M-C 63NP	2CCS571103R8634		0.221	5
4	2	0108527	S403 M-C 2NP	2CCS573103R8024		0.428	2
	3	0108534	S403 M-C 3NP	2CCS573103R8034		0.428	2
	4	0108541	S403 M-C 4NP	2CCS573103R8044		0.428	2
	6	0103881	S403 M-C 6NP	2CCS573103R8064		0.428	2
	8	0103898	S403 M-C 8NP	2CCS573103R8084		0.428	2
	10	0103904	S403 M-C 10NP	2CCS573103R8104		0.428	2
	13	0103911	S403 M-C 13NP	2CCS573103R8134		0.428	2
	16	0103928	S403 M-C 16NP	2CCS573103R8164		0.428	2
	20	0103935	S403 M-C 20NP	2CCS573103R8204		0.428	2
	25	0103942	S403 M-C 25NP	2CCS573103R8254		0.428	2
	32	0103959	S403 M-C 32NP	2CCS573103R8324		0.428	2
	40	0103966	S403 M-C 40NP	2CCS573103R8404		0.428	2
	50	0103973	S403 M-C 50NP	2CCS573103R8504		0.428	2
	63	0103980	S403 M-C 63NP	2CCS573103R8634		0.428	2

SMISSLINE TP plug-in system

MCBs S 400 M series 10000 D characteristic



S401M -NP



S403M -NP

S400M Characteristic D-NP

Function: protection and control of the circuits against overloads and short-circuits; protection for circuits which supply loads with high inrush current at the circuit closing (LV/LV transformers, breakdown lamps). The neutral is full protected.

Applications: residential, commercial and industrial.

Standard: IEC/EN 60898

Icn = 10 kA

Number of poles	Rated current	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	In A	EAN	Type code	Order code		kg	pc.
2	10	0103522	S401 M-D 10NP	2CCS571103R8101		0.221	5
	13	0103539	S401 M-D 13NP	2CCS571103R8131		0.221	5
	16	0103546	S401 M-D 16NP	2CCS571103R8161		0.221	5
	20	0103553	S401 M-D 20NP	2CCS571103R8201		0.221	5
	25	0103560	S401 M-D 25NP	2CCS571103R8251		0.221	5
	32	0103577	S401 M-D 32NP	2CCS571103R8321		0.221	5
	40	0103584	S401 M-D 40NP	2CCS571103R8401		0.221	5
	50	0103591	S401 M-D 50NP	2CCS571103R8501		0.221	5
	63	0103607	S401 M-D 63NP	2CCS571103R8631		0.221	5
4	10	0103997	S403 M-D 10NP	2CCS573103R8101		0.428	2
	13	0104000	S403 M-D 13NP	2CCS573103R8131		0.428	2
	16	0104017	S403 M-D 16NP	2CCS573103R8161		0.428	2
	20	0104024	S403 M-D 20NP	2CCS573103R8201		0.428	2
	25	0104031	S403 M-D 25NP	2CCS573103R8251		0.428	2
	32	0104048	S403 M-D 32NP	2CCS573103R8321		0.428	2
	40	0104055	S403 M-D 40NP	2CCS573103R8401		0.428	2
	50	0104062	S403 M-D 50NP	2CCS573103R8501		0.428	2
	63	0104079	S403 M-D 63NP	2CCS573103R8631		0.428	2

SMISSLINE TP plug-in system

MCBs S 400 M series 5 000-15 000 K characteristic



S401M -NP



S403M - NP

S400M Characteristic K-NP

Function: protection and control of the circuits like motors, transformer and auxiliary circuits, against overloads and short-circuits.

Advantages: no nuisance tripping in the case of functional peak currents up to 10 x In, depending on the series; through its highly sensitive thermostatic bimetal trip, the K-type characteristic offers protection to damageable elements in the overcurrent range; it also provides the best protection to cables and lines. The neutral is full protected.

Applications: commercial and industrial.

Standard: IEC/EN 60947-2

Icu = 50 kA ≤ 2A, 25 kA for 3 A ≤ 16A, 15 kA for 32 A ≤ 63 A

Number of poles	Rated current	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	In A	EAN	Type code	Order code		kg	pc.
2	0.5	0103614	S401 M-K 0.5NP	2CCS571103R8157		0.221	5
	1	0103621	S401 M-K 1NP	2CCS571103R8217		0.221	5
	1.6	0103638	S401 M-K 1.6NP	2CCS571103R8257		0.221	5
	2	0103645	S401 M-K 2NP	2CCS571103R8277		0.221	5
	3	0103652	S401 M-K 3NP	2CCS571103R8317		0.221	5
	4	0103669	S401 M-K 4NP	2CCS571103R8337		0.221	5
	6	0103676	S401 M-K 6NP	2CCS571103R8377		0.221	5
	8	0103683	S401 M-K 8NP	2CCS571103R8407		0.221	5
	10	0103690	S401 M-K 10NP	2CCS571103R8427		0.221	5
	13	0103706	S401 M-K 13NP	2CCS571103R8447		0.221	5
	16	0103713	S401 M-K 16NP	2CCS571103R8467		0.221	5
	20	0103720	S401 M-K 20NP	2CCS571103R8487		0.221	5
	25	0103737	S401 M-K 25NP	2CCS571103R8517		0.221	5
	32	0103744	S401 M-K 32NP	2CCS571103R8537		0.221	5
	40	0103751	S401 M-K 40NP	2CCS571103R8557		0.221	5
	50	0103768	S401 M-K 50NP	2CCS571103R8577		0.221	5
	63	0103775	S401 M-K 63NP	2CCS571103R8597		0.221	5
4	0.5	0104086	S403 M-K 0.5NP	2CCS573103R8157		0.428	2
	1	0104093	S403 M-K 1NP	2CCS573103R8217		0.428	2
	1.6	0104109	S403 M-K 1.6NP	2CCS573103R8257		0.428	2
	2	0104116	S403 M-K 2NP	2CCS573103R8277		0.428	2
	3	0104123	S403 M-K 3NP	2CCS573103R8317		0.428	2
	4	0104130	S403 M-K 4NP	2CCS573103R8337		0.428	2
	6	0104147	S403 M-K 6NP	2CCS573103R8377		0.428	2
	8	0104154	S403 M-K 8NP	2CCS573103R8407		0.428	2
	10	0104161	S403 M-K 10NP	2CCS573103R8427		0.428	2
	13	0104178	S403 M-K 13NP	2CCS573103R8447		0.428	2
	16	0104185	S403 M-K 16NP	2CCS573103R8467		0.428	2
	20	0104192	S403 M-K 20NP	2CCS573103R8487		0.428	2
	25	0104208	S403 M-K 25NP	2CCS573103R8517		0.428	2
	32	0104215	S403 M-K 32NP	2CCS573103R8537		0.428	2
	40	0104222	S403 M-K 40NP	2CCS573103R8557		0.428	2
	50	0104239	S403 M-K 50NP	2CCS573103R8577		0.428	2
	63	0104246	S403 M-K 63NP	2CCS573103R8597		0.428	2

SMISSLINE TP plug-in system

MCBs S 400 M-UC series 10000-25000 C characteristic, DC application



1 P 220V d.c.



2 P 440V d.c.

S400UC Characteristic C

Function: protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current.

Applications: residential, commercial and industrial.

Standard: IEC/EN 60947-2

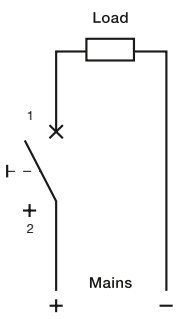
10 kA (0,5 up to 63 A, 220 V d.c. 1pole), 20 kA (0,5 up to 63 A, 110 V d.c. 1pole)

25 kA (0,5 up to 63 A, 220 V d.c. 2pole), 10 kA (0,5 up to 63 A, 440 V d.c. 2pole)

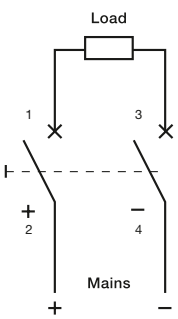
10 kA (0,5 up to 63 A, 230/400 V) a.c.

Number of poles	Rated current	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	In A	EAN	Type code	Order code		kg	pc.
1	0.5	0109746	S401M-UCC0.5	2CCS561001R1984		0.110	10
	1	0109753	S401M-UCC1	2CCS561001R1014		0.110	10
	1.6	0109760	S401M-UCC1.6	2CCS561001R1974		0.110	10
	2	0109777	S401M-UCC2	2CCS561001R1024		0.110	10
	3	0109784	S401M-UCC3	2CCS571001R1034		0.110	10
	4	0109791	S401M-UCC4	2CCS571001R1044		0.110	10
	6	0109807	S401M-UCC6	2CCS571001R1064		0.110	10
	8	0109814	S401M-UCC8	2CCS571001R1084		0.110	10
	10	0109821	S401M-UCC10	2CCS571001R1104		0.110	10
	13	0109838	S401M-UCC13	2CCS571001R1134		0.110	10
	16	0109845	S401M-UCC16	2CCS571001R1164		0.110	10
	20	0109852	S401M-UCC20	2CCS571001R1204		0.110	10
	25	0109869	S401M-UCC25	2CCS571001R1254		0.110	10
	32	0109876	S401M-UCC32	2CCS571001R1324		0.110	10
	40	0109883	S401M-UCC40	2CCS571001R1404		0.110	10
	50	0109890	S401M-UCC50	2CCS571001R1504		0.110	10
	63	0109906	S401M-UCC63	2CCS571001R1634		0.110	10
2	0.5	0109913	S402M-UCC0.5	2CCS562001R1984		0.221	5
	1	0109920	S402M-UCC1	2CCS562001R1014		0.221	5
	1.6	0109937	S402M-UCC1.6	2CCS562001R1974		0.221	5
	2	0109944	S402M-UCC2	2CCS562001R1024		0.221	5
	3	0109951	S402M-UCC3	2CCS572001R1034		0.221	5
	4	0109968	S402M-UCC4	2CCS572001R1044		0.221	5
	6	0109975	S402M-UCC6	2CCS572001R1064		0.221	5
	8	0109982	S402M-UCC8	2CCS572001R1084		0.221	5
	10	0109999	S402M-UCC10	2CCS572001R1104		0.221	5
	13	0110001	S402M-UCC13	2CCS572001R1134		0.221	5
	16	0110018	S402M-UCC16	2CCS572001R1164		0.221	5
	20	0110025	S402M-UCC20	2CCS572001R1204		0.221	5
	25	0110032	S402M-UCC25	2CCS572001R1254		0.221	5
	32	0110049	S402M-UCC32	2CCS572001R1324		0.221	5
	40	0110056	S402M-UCC40	2CCS572001R1404		0.221	5
	50	0110063	S402M-UCC50	2CCS572001R1504		0.221	5
	63	0110070	S402M-UCC63	2CCS572001R1634		0.221	5

Connection diagram, single-pole (max. 220V d.c.) S401M-UCC



Connection diagram, two-pole (max. 440V d.c.) S402M-UCC



SMISSLINE TP plug-in system

MCBs S 400 M-UC series 10000-25000 Z characteristic, DC application



1 P 220V d.c.



2 P 440V d.c.

S400UC Characteristic Z

Function: protection and control of the electronic circuits against weak and long duration overloads and short-circuits.

Applications: commercial and industrial.

Standard: IEC/EN 60947-2

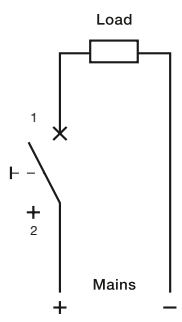
10 kA (0,5 up to 63 A, 220 V d.c. 1pole), 20 kA (0,5 up to 63 A, 110 V d.c. 1pole)

25 kA (0,5 up to 63 A, 220 V d.c. 2pole), 10 kA (0,5 up to 63 A, 440 V d.c. 2pole)

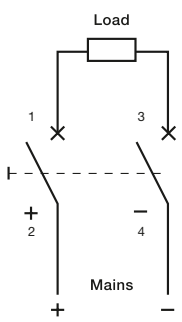
10 kA (0,5 up to 63 A, 230/400 V) a.c.

Number of poles	Rated current	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	In A	EAN	Type code	Order code		kg	pc.
1	0.5	0110087	S401M-UCZ0.5	2CCS561001R1988		0.110	10
	1	0110094	S401M-UCZ1	2CCS561001R1018		0.110	10
	1.6	0110100	S401M-UCZ1.6	2CCS561001R1978		0.110	10
	2	0110117	S401M-UCZ2	2CCS561001R1028		0.110	10
	3	0110124	S401M-UCZ3	2CCS571001R1038		0.110	10
	4	0110131	S401M-UCZ4	2CCS571001R1048		0.110	10
	6	0110148	S401M-UCZ6	2CCS571001R1068		0.110	10
	8	0110155	S401M-UCZ8	2CCS571001R1088		0.110	10
	10	0110162	S401M-UCZ10	2CCS571001R1108		0.110	10
	13	0110179	S401M-UCZ13	2CCS571001R1138		0.110	10
	16	0110186	S401M-UCZ16	2CCS571001R1168		0.110	10
	20	0110193	S401M-UCZ20	2CCS571001R1208		0.110	10
	25	0110209	S401M-UCZ25	2CCS571001R1258		0.110	10
	32	0110216	S401M-UCZ32	2CCS571001R1328		0.110	10
	40	0110223	S401M-UCZ40	2CCS571001R1408		0.110	10
	50	0110230	S401M-UCZ50	2CCS571001R1508		0.110	10
	63	0110247	S401M-UCZ63	2CCS571001R1638		0.110	10
2	0.5	0110254	S402M-UCZ0.5	2CCS562001R1988		0.221	5
	1	0110261	S402M-UCZ1	2CCS562001R1018		0.221	5
	1.6	0110278	S402M-UCZ1.6	2CCS562001R1978		0.221	5
	2	0110285	S402M-UCZ2	2CCS562001R1028		0.221	5
	3	0110292	S402M-UCZ3	2CCS572001R1038		0.221	5
	4	0110308	S402M-UCZ4	2CCS572001R1048		0.221	5
	6	0110315	S402M-UCZ6	2CCS572001R1068		0.221	5
	8	0110322	S402M-UCZ8	2CCS572001R1088		0.221	5
	10	0110339	S402M-UCZ10	2CCS572001R1108		0.221	5
	13	0110346	S402M-UCZ13	2CCS572001R1138		0.221	5
	16	0110353	S402M-UCZ16	2CCS572001R1168		0.221	5
	20	0110360	S402M-UCZ20	2CCS572001R1208		0.221	5
	25	0110377	S402M-UCZ25	2CCS572001R1258		0.221	5
	32	0110384	S402M-UCZ32	2CCS572001R1328		0.221	5
	40	0110391	S402M-UCZ40	2CCS572001R1408		0.221	5
	50	0110407	S402M-UCZ50	2CCS572001R1508		0.221	5
	63	0110414	S402M-UCZ63	2CCS572001R1638		0.221	5

Connection diagram, single-pole (max. 220V d.c.) S401M-UCZ



Connection diagram, two-pole (max. 440V d.c.) S402M-UCZ



SMISSLINE TP plug-in system

Miniature circuit breaker (MCB) S400 M–UC, DC application, I_{cu} = 10 … 25 kA

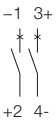


1 P 220 V=





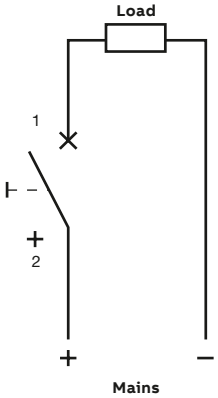
2 P 440 V=



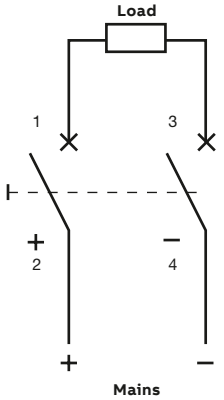
Z according to IEC/EN 60947-2

Number of poles	Rated current	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	In A	EAN	Type code	Order code		kg	pc.
1	0.5	011 0087	S401M-UCZ0.5	2CCS561001R1988		0.110	10
	1	011 0094	S401M-UCZ1	2CCS561001R1018		0.110	10
	1.6	011 0100	S401M-UCZ1.6	2CCS561001R1978		0.110	10
	2	011 0117	S401M-UCZ2	2CCS561001R1028		0.110	10
	3	011 0124	S401M-UCZ3	2CCS571001R1038		0.110	10
	4	011 0131	S401M-UCZ4	2CCS571001R1048		0.110	10
	6	011 0148	S401M-UCZ6	2CCS571001R1068		0.110	10
	8	011 0155	S401M-UCZ8	2CCS571001R1088		0.110	10
	10	011 0162	S401M-UCZ10	2CCS571001R1108		0.110	10
	13	011 0179	S401M-UCZ13	2CCS571001R1138		0.110	10
	16	011 0186	S401M-UCZ16	2CCS571001R1168		0.110	10
	20	011 0193	S401M-UCZ20	2CCS571001R1208		0.110	10
	25	011 0209	S401M-UCZ25	2CCS571001R1258		0.110	10
	32	011 0216	S401M-UCZ32	2CCS571001R1328		0.110	10
	40	011 0223	S401M-UCZ40	2CCS571001R1408		0.110	10
	50	011 0230	S401M-UCZ50	2CCS571001R1508		0.110	10
	63	011 0247	S401M-UCZ63	2CCS571001R1638		0.110	10
2	0.5	011 0254	S402M-UCZ0.5	2CCS562001R1988		0.221	5
	1	011 0261	S402M-UCZ1	2CCS562001R1018		0.221	5
	1.6	011 0278	S402M-UCZ1.6	2CCS562001R1978		0.221	5
	2	011 0285	S402M-UCZ2	2CCS562001R1028		0.221	5
	3	011 0292	S402M-UCZ3	2CCS572001R1038		0.221	5
	4	011 0308	S402M-UCZ4	2CCS572001R1048		0.221	5
	6	011 0315	S402M-UCZ6	2CCS572001R1068		0.221	5
	8	011 0322	S402M-UCZ8	2CCS572001R1088		0.221	5
	10	011 0339	S402M-UCZ10	2CCS572001R1108		0.221	5
	13	011 0346	S402M-UCZ13	2CCS572001R1138		0.221	5
	16	011 0353	S402M-UCZ16	2CCS572001R1168		0.221	5
	20	011 0360	S402M-UCZ20	2CCS572001R1208		0.221	5
	25	011 0377	S402M-UCZ25	2CCS572001R1258		0.221	5
	32	011 0384	S402M-UCZ32	2CCS572001R1328		0.221	5
	40	011 0391	S402M-UCZ40	2CCS572001R1408		0.221	5
	50	011 0407	S402M-UCZ50	2CCS572001R1508		0.221	5
	63	011 0414	S402M-UCZ63	2CCS572001R1638		0.221	5

Connection diagram, single-pole (max. 220 V=) S401M-UCZ



Connection diagram, two-pole (max. 440 V=) S402M-UCZ



SMISSLINE TP plug-in system

Miniature circuit breaker (MCB) for IEC

S400P technical features

Standards		
IEC/EN 606947-2	x	
General data		
Tripping characteristics	B, C, K	
Poles	1P, 1P+NP, 2P, 3P, 3P+NP	
Rated current I_n	2, 3, 4, 6, 8, 10, 13, 16, 20, 25, 32, 40, 50, 63 A	
Calibration temperature	B,C 30 °C; K 40 °C	
Rated frequency	50/60 Hz	
Rated insulation voltage U_i AC 240/415 V	440 V	
Rated insulation voltage U_i AC 277/480 V	500 V	
Rated impulse withstand voltage U_{imp}	4kV	
Overvoltage category	III	
Pollution degree	AC 240/415 V: 3	AC 277/480 V: 2
Data acc. to IEC/EN 60947-2		
Rated operational voltage U_e	1P, 1P+NP: AC 240 V 2P, 3P, 3P+NP: AC 240/415 V	1P, 1P+NP: AC 277 V 2P, 3P, 3P+NP: AC 277/480 V
Minimum operating voltage	1P 60 V DC; 2P 125 V DC (Umax)	AC 12 V
Rated ultimate short-circuit capacity I_{cu}	40kA (2 up to 16 A, 240/415 VAC) 30 kA (20 up to 40 A, 240/415 VAC) 20 kA (50 up to 63 A, 240/415 VAC)	20 kA (2 up to 16 A, 277/480 VAC) 15 kA (20 up to 40 A, 277/480 VAC) 5 kA (50 up to 63 A, 277/480 VAC)
Rated service short-circuit capacity I_{cs}	20kA (2 up to 16 A, 240/415 VAC) 15kA 20 up to 40 A, 240/415 VAC) 7.5kA 50 up to 63 A, 240/415 VAC)	10 kA (2 up to 16 A, 277/480 VAC) 5 kA (20 up to 40 A, 277/480 VAC) 2.5 kA (50 up to 63 A, 277/480 VAC)
Reference ambient air temperature for overload tripping	B, C: 30 °C, K: 40 °C	
Mechanical Data		
Contact position indication (green OFF/red ON)	x	
L1/L2/L3 position indication	x	
N position indication	x	
Label holder	x	
IP Code	IP20B, IP40 in enclosure with cover	
Endurance	Electrical endurance: 10000 ops Mechanical endurance: 10000 ops	
Shock resistance acc. to IEC/EN 61373	5 g / 30 ms, 3 shocks	
Vibration resistance acc. to IEC/EN 60068-2-6	2...13.2 Hz/1 mm 13.2...100 Hz/0.7 g, 5 cycles 5...150...5 Hz/1 g, 4 sweeps	
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30	28 cycles with 55 °C/90...96 % and 25 °C/95...100 %	
Ambient temperature	–25...+60 °C	
Storage temperature	–40...+70 °C	
Installation		
Top terminal type	Failsafe bi-directional cylinder-lift terminal with double slot 35/10 mm^2	
Top terminal rigid IEC connections (solid/stranded)	Single: 0.75 ÷ 35 mm^2 (front slot), 0.75 ÷ 6 mm^2 (rear slot) Multiple: 2x 0.75 ÷ 10 mm^2 (front slot), 2x 0.75 ÷ 6 mm^2 (rear slot), with cables of same type and size	
Top terminal flexible IEC connections	Single: 0.75 ÷ 25 mm^2 (front side), 0.75 ÷ 6 mm^2 (rear slot) Multiple: 2x 0.75 ÷ 10 mm^2 (front slot), 2x 0.75 ÷ 6 mm^2 (rear slot), with cables of same type and size	
Top terminal screwdriver	No. 2 Pozidrive	
Top terminal stripping length	12.5 mm	
Top terminal tightening torque	2.8 Nm	
Bottom terminal type	Movable plug-on terminal L1/L2/L3, fixed plug-on terminal N	
Mounting	SMISSLINE TP socket system only	
Mounting position	Any	
Supply	Any	

SMISSLINE TP plug-in system

Miniature circuit breaker (MCB) S400P-B, I_{cu} = 40 … 20 kA

B according to IEC/EN 60947-2

	I_{cu}	I_n	Bbn 761227	Order details		Module	Weight 1 piece	Pack unit
	[kA]	[A]	EAN	Type code	Order code		kg	pc.
 S401P	40	2	508418	S401P-B2	2CCG000364R0001	1	0.115	10
	40	3	508425	S401P-B3	2CCG000475R0001	1	0.115	10
	40	4	508432	S401P-B4	2CCG000497R0001	1	0.115	10
	40	6	508449	S401P-B6	2CCG000508R0001	1	0.115	10
	40	8	508456	S401P-B8	2CCG000519R0001	1	0.115	10
	40	10	508463	S401P-B10	2CCG000530R0001	1	0.115	10
	40	13	508470	S401P-B13	2CCG000541R0001	1	0.115	10
	40	16	508487	S401P-B16	2CCG000552R0001	1	0.115	10
	30	20	508494	S401P-B20	2CCG000563R0001	1	0.115	10
	30	25	508500	S401P-B25	2CCG000365R0001	1	0.115	10
	30	32	508517	S401P-B32	2CCG000376R0001	1	0.115	10
	30	40	508524	S401P-B40	2CCG000387R0001	1	0.115	10
	20	50	508531	S401P-B50	2CCG000398R0001	1	0.115	10
	20	63	508548	S401P-B63	2CCG000409R0001	1	0.115	10
 S402P 	40	2	508692	S402P-B2	2CCG000496R0001	2	0.230	5
	40	3	508708	S402P-B3	2CCG000498R0001	2	0.230	5
	40	4	508715	S402P-B4	2CCG000499R0001	2	0.230	5
	40	6	508722	S402P-B6	2CCG000500R0001	2	0.230	5
	40	8	508739	S402P-B8	2CCG000501R0001	2	0.230	5
	40	10	508746	S402P-B10	2CCG000502R0001	2	0.230	5
	40	13	508753	S402P-B13	2CCG000503R0001	2	0.230	5
	40	16	508760	S402P-B16	2CCG000504R0001	2	0.230	5
	30	20	508777	S402P-B20	2CCG000505R0001	2	0.230	5
	30	25	508784	S402P-B25	2CCG000506R0001	2	0.230	5
	30	32	508791	S402P-B32	2CCG000507R0001	2	0.230	5
	30	40	508807	S402P-B40	2CCG000509R0001	2	0.230	5
	20	50	508814	S402P-B50	2CCG000510R0001	2	0.230	5
	20	63	508821	S402P-B63	2CCG000511R0001	2	0.230	5
 S403P 	40	2	508838	S403P-B2	2CCG000512R0001	3	0.345	3
	40	3	508845	S403P-B3	2CCG000513R0001	3	0.345	3
	40	4	508852	S403P-B4	2CCG000514R0001	3	0.345	3
	40	6	508869	S403P-B6	2CCG000515R0001	3	0.345	3
	40	8	508876	S403P-B8	2CCG000516R0001	3	0.345	3
	40	10	508883	S403P-B10	2CCG000517R0001	3	0.345	3
	40	13	508890	S403P-B13	2CCG000518R0001	3	0.345	3
	40	16	508906	S403P-B16	2CCG000520R0001	3	0.345	3
	30	20	508913	S403P-B20	2CCG000521R0001	3	0.345	3
	30	25	508920	S403P-B25	2CCG000522R0001	3	0.345	3
	30	32	508937	S403P-B32	2CCG000523R0001	3	0.345	3
	30	40	508944	S403P-B40	2CCG000524R0001	3	0.345	3
	20	50	508951	S403P-B50	2CCG000525R0001	3	0.345	3
	20	63	508968	S403P-B63	2CCG000526R0001	3	0.345	3

Ordering details for auxiliary switch and signal contacts on page 49–50

SMISSLINE TP plug-in system

Miniature circuit breaker (MCB) S400P-C, I_{cu} = 40 … 20 kA

C according to IEC/EN 60947-2

	I_{cu}	I_n	Bbn 761227	Order details		Module	Weight 1 piece	Pack unit
	[kA]	[A]	EAN	Type code	Order code		kg	pc.
 S401P	40	2	509118	S401P-C2	2CCG000543R0001	1	0.115	10
	40	3	509125	S401P-C3	2CCG000544R0001	1	0.115	10
	40	4	509132	S401P-C4	2CCG000545R0001	1	0.115	10
	40	6	509149	S401P-C6	2CCG000546R0001	1	0.115	10
	40	8	509156	S401P-C8	2CCG000547R0001	1	0.115	10
	40	10	509163	S401P-C10	2CCG000548R0001	1	0.115	10
	40	13	509170	S401P-C13	2CCG000549R0001	1	0.115	10
	40	16	509187	S401P-C16	2CCG000550R0001	1	0.115	10
	30	20	509194	S401P-C20	2CCG000551R0001	1	0.115	10
	30	25	509200	S401P-C25	2CCG000553R0001	1	0.115	10
	30	32	509217	S401P-C32	2CCG000554R0001	1	0.115	10
	30	40	509224	S401P-C40	2CCG000555R0001	1	0.115	10
	20	50	509231	S401P-C50	2CCG000556R0001	1	0.115	10
	20	63	509248	S401P-C63	2CCG000557R0001	1	0.115	10
 S402P 	40	2	509392	S402P-C2	2CCG000573R0001	2	0.230	5
	40	3	509408	S402P-C3	2CCG000366R0001	2	0.230	5
	40	4	509415	S402P-C4	2CCG000367R0001	2	0.230	5
	40	6	509422	S402P-C6	2CCG000368R0001	2	0.230	5
	40	8	509439	S402P-C8	2CCG000369R0001	2	0.230	5
	40	10	509446	S402P-C10	2CCG000370R0001	2	0.230	5
	40	13	509453	S402P-C13	2CCG000371R0001	2	0.230	5
	40	16	509460	S402P-C16	2CCG000372R0001	2	0.230	5
	30	20	509477	S402P-C20	2CCG000373R0001	2	0.230	5
	30	25	509484	S402P-C25	2CCG000374R0001	2	0.230	5
	30	32	509491	S402P-C32	2CCG000375R0001	2	0.230	5
	30	40	509507	S402P-C40	2CCG000377R0001	2	0.230	5
	20	50	509514	S402P-C50	2CCG000378R0001	2	0.230	5
	20	63	509521	S402P-C63	2CCG000379R0001	2	0.230	5
 S403P 	40	2	509538	S403P-C2	2CCG000380R0001	3	0.345	3
	40	3	509545	S403P-C3	2CCG000381R0001	3	0.345	3
	40	4	509552	S403P-C4	2CCG000382R0001	3	0.345	3
	40	6	509569	S403P-C6	2CCG000383R0001	3	0.345	3
	40	8	509576	S403P-C8	2CCG000384R0001	3	0.345	3
	40	10	509583	S403P-C10	2CCG000385R0001	3	0.345	3
	40	13	509590	S403P-C13	2CCG000386R0001	3	0.345	3
	40	16	509606	S403P-C16	2CCG000388R0001	3	0.345	3
	30	20	509613	S403P-C20	2CCG000389R0001	3	0.345	3
	30	25	509620	S403P-C25	2CCG000390R0001	3	0.345	3
	30	32	509637	S403P-C32	2CCG000391R0001	3	0.345	3
	30	40	509644	S403P-C40	2CCG000392R0001	3	0.345	3
	20	50	509651	S403P-C50	2CCG000393R0001	3	0.345	3
	20	63	509668	S403P-C63	2CCG000394R0001	3	0.345	3

Ordering details for auxiliary switch and signal contacts on page 49–50

SMISSLINE TP plug-in system

Miniature circuit breaker (MCB) S400P-K, I_{cu} = 40 … 20 kA

K according to IEC/EN 60947-2

	I_{cu}	I_n	Bbn 761227	Order details		Module	Weight 1 piece	Pack unit
	[kA]	[A]	EAN	Type code	Order code		kg	pc.
 S401P	40	2	509811	S401P-K2	2CCG000411R0001	1	0.115	10
	40	3	509828	S401P-K3	2CCG000412R0001	1	0.115	10
	40	4	509835	S401P-K4	2CCG000413R0001	1	0.115	10
	40	6	509842	S401P-K6	2CCG000414R0001	1	0.115	10
	40	8	509859	S401P-K8	2CCG000415R0001	1	0.115	10
	40	10	509866	S401P-K10	2CCG000416R0001	1	0.115	10
	40	13	509873	S401P-K13	2CCG000417R0001	1	0.115	10
	40	16	509880	S401P-K16	2CCG000418R0001	1	0.115	10
	30	20	509897	S401P-K20	2CCG000419R0001	1	0.115	10
	30	25	509903	S401P-K25	2CCG000421R0001	1	0.115	10
	30	32	509910	S401P-K32	2CCG000422R0001	1	0.115	10
	30	40	509927	S401P-K40	2CCG000423R0001	1	0.115	10
	20	50	509934	S401P-K50	2CCG000424R0001	1	0.115	10
	20	63	509941	S401P-K63	2CCG000425R0001	1	0.115	10
 S402P 	40	2	510091	S402P-K2	2CCG000441R0001	2	0.230	5
	40	3	510107	S402P-K3	2CCG000443R0001	2	0.230	5
	40	4	510114	S402P-K4	2CCG000444R0001	2	0.230	5
	40	6	510121	S402P-K6	2CCG000445R0001	2	0.230	5
	40	8	510138	S402P-K8	2CCG000446R0001	2	0.230	5
	40	10	510145	S402P-K10	2CCG000447R0001	2	0.230	5
	40	13	510152	S402P-K13	2CCG000448R0001	2	0.230	5
	40	16	510169	S402P-K16	2CCG000449R0001	2	0.230	5
	30	20	510176	S402P-K20	2CCG000450R0001	2	0.230	5
	30	25	510183	S402P-K25	2CCG000451R0001	2	0.230	5
	30	32	510190	S402P-K32	2CCG000452R0001	2	0.230	5
	30	40	510206	S402P-K40	2CCG000454R0001	2	0.230	5
	20	50	510213	S402P-K50	2CCG000455R0001	2	0.230	5
	20	63	510220	S402P-K63	2CCG000456R0001	2	0.230	5
 S403P 	40	2	510237	S403P-K2	2CCG000457R0001	3	0.345	3
	40	3	510244	S403P-K3	2CCG000458R0001	3	0.345	3
	40	4	510251	S403P-K4	2CCG000459R0001	3	0.345	3
	40	6	510268	S403P-K6	2CCG000460R0001	3	0.345	3
	40	8	510275	S403P-K8	2CCG000461R0001	3	0.345	3
	40	10	510282	S403P-K10	2CCG000462R0001	3	0.345	3
	40	13	510299	S403P-K13	2CCG000463R0001	3	0.345	3
	40	16	510305	S403P-K16	2CCG000465R0001	3	0.345	3
	30	20	510312	S403P-K20	2CCG000466R0001	3	0.345	3
	30	25	510329	S403P-K25	2CCG000467R0001	3	0.345	3
	30	32	510336	S403P-K32	2CCG000468R0001	3	0.345	3
	30	40	510343	S403P-K40	2CCG000469R0001	3	0.345	3
	20	50	510350	S403P-K50	2CCG000470R0001	3	0.345	3
	20	63	510367	S403P-K63	2CCG000471R0001	3	0.345	3

Ordering details for auxiliary switch and signal contacts on page 49–50

SMISSLINE TP plug-in system

Miniature circuit breaker (MCB) S400P-K with protected neutral I_{cu} = 20 … 40 kA

K according to IEC/EN 60947-2



S402P



S404P

	I_{cu}	I_n	Bbn 761227	Order details		Module	Weight 1 piece	Pack unit
	[kA]	[A]	EAN	Type code	Order code		kg	pc.
S402P	40	2	508555	S401P-B2NP	2CCG000420R0001	2	0.230	5
	40	3	508562	S401P-B3NP	2CCG000431R0001	2	0.230	5
	40	4	508579	S401P-B4NP	2CCG000442R0001	2	0.230	5
	40	6	508586	S401P-B6NP	2CCG000453R0001	2	0.230	5
	40	8	508593	S401P-B8NP	2CCG000464R0001	2	0.230	5
	40	10	508609	S401P-B10NP	2CCG000476R0001	2	0.230	5
	40	13	508616	S401P-B13NP	2CCG000487R0001	2	0.230	5
	40	16	508623	S401P-B16NP	2CCG000489R0001	2	0.230	5
	30	20	508630	S401P-B20NP	2CCG000490R0001	2	0.230	5
	30	25	508647	S401P-B25NP	2CCG000491R0001	2	0.230	5
	30	32	508654	S401P-B32NP	2CCG000492R0001	2	0.230	5
	30	40	508661	S401P-B40NP	2CCG000493R0001	2	0.230	5
	20	50	508678	S401P-B50NP	2CCG000494R0001	2	0.230	5
	20	63	508685	S401P-B63NP	2CCG000495R0001	2	0.230	5
S404P	40	2	508975	S403P-B2NP	2CCG000527R0001	4	0.460	2
	40	3	508982	S403P-B3NP	2CCG000528R0001	4	0.460	2
	40	4	508999	S403P-B4NP	2CCG000529R0001	4	0.460	2
	40	6	509002	S403P-B6NP	2CCG000531R0001	4	0.460	2
	40	8	509019	S403P-B8NP	2CCG000532R0001	4	0.460	2
	40	10	509026	S403P-B10NP	2CCG000533R0001	4	0.460	2
	40	13	509033	S403P-B13NP	2CCG000534R0001	4	0.460	2
	40	16	509040	S403P-B16NP	2CCG000535R0001	4	0.460	2
	30	20	509057	S403P-B20NP	2CCG000536R0001	4	0.460	2
	30	25	509064	S403P-B25NP	2CCG000537R0001	4	0.460	2
	30	32	509071	S403P-B32NP	2CCG000538R0001	4	0.460	2
	30	40	509088	S403P-B40NP	2CCG000539R0001	4	0.460	2
	20	50	509095	S403P-B50NP	2CCG000540R0001	4	0.460	2
	20	63	509101	S403P-B63NP	2CCG000542R0001	4	0.460	2

Ordering details for auxiliary switch and signal contacts on page 49–50

SMISSLINE TP plug-in system

Miniature circuit breaker (MCB) S400P-C with protected neutral I_{cu} = 20 … 40 kA

C according to IEC/EN 60947-2

	I_{cu}	I_n	Bbn 761227	Order details		Module	Weight 1 piece	Pack unit
	[kA]	[A]	EAN	Type code	Order code		kg	pc.
 S402P	40	2	509255	S401P-C2NP	2CCG000558R0001	2	0.230	5
	40	3	509262	S401P-C3NP	2CCG000559R0001	2	0.230	5
	40	4	509279	S401P-C4NP	2CCG000560R0001	2	0.230	5
	40	6	509286	S401P-C6NP	2CCG000561R0001	2	0.230	5
	40	8	509293	S401P-C8NP	2CCG000562R0001	2	0.230	5
	40	10	509309	S401P-C10NP	2CCG000564R0001	2	0.230	5
	40	13	509316	S401P-C13NP	2CCG000565R0001	2	0.230	5
	40	16	509323	S401P-C16NP	2CCG000566R0001	2	0.230	5
	30	20	509330	S401P-C20NP	2CCG000567R0001	2	0.230	5
	30	25	509347	S401P-C25NP	2CCG000568R0001	2	0.230	5
	30	32	509354	S401P-C32NP	2CCG000569R0001	2	0.230	5
	30	40	509361	S401P-C40NP	2CCG000570R0001	2	0.230	5
	20	50	509378	S401P-C50NP	2CCG000571R0001	2	0.230	5
	20	63	509385	S401P-C63NP	2CCG000572R0001	2	0.230	5
 S404P	40	2	509675	S403P-C2NP	2CCG000395R0001	4	0.460	2
	40	3	509682	S403P-C3NP	2CCG000396R0001	4	0.460	2
	40	4	509699	S403P-C4NP	2CCG000397R0001	4	0.460	2
	40	6	509705	S403P-C6NP	2CCG000399R0001	4	0.460	2
	40	8	509712	S403P-C8NP	2CCG000400R0001	4	0.460	2
	40	10	509729	S403P-C10NP	2CCG000401R0001	4	0.460	2
	40	13	509736	S403P-C13NP	2CCG000402R0001	4	0.460	2
	40	16	509743	S403P-C16NP	2CCG000403R0001	4	0.460	2
	30	20	509750	S403P-C20NP	2CCG000404R0001	4	0.460	2
	30	25	509767	S403P-C25NP	2CCG000405R0001	4	0.460	2
	30	32	509774	S403P-C32NP	2CCG000406R0001	4	0.460	2
	30	40	509781	S403P-C40NP	2CCG000407R0001	4	0.460	2
	20	50	509798	S403P-C50NP	2CCG000408R0001	4	0.460	2
	20	63	509804	S403P-C63NP	2CCG000410R0001	4	0.460	2

Ordering details for auxiliary switch and signal contacts on page 49–50

SMISSLINE TP plug-in system

Miniature circuit breaker (MCB) S400P-K with protected neutral I_{cu} = 20 … 40 kA

K according to IEC/EN 60947-2

	I_{cu}	I_n	Bbn 761227	Order details		Module	Weight 1 piece	Pack unit
	[kA]	[A]	EAN	Type code	Order code		kg	pc.
 S402P 	40	2	509958	S401P-K2NP	2CCG000426R0001	2	0.230	5
	40	3	509965	S401P-K3NP	2CCG000427R0001	2	0.230	5
	40	4	509972	S401P-K4NP	2CCG000428R0001	2	0.230	5
	40	6	509989	S401P-K6NP	2CCG000429R0001	2	0.230	5
	40	8	509996	S401P-K8NP	2CCG000430R0001	2	0.230	5
	40	10	510008	S401P-K10NP	2CCG000432R0001	2	0.230	5
	40	13	510015	S401P-K13NP	2CCG000433R0001	2	0.230	5
	40	16	510022	S401P-K16NP	2CCG000434R0001	2	0.230	5
	30	20	510039	S401P-K20NP	2CCG000435R0001	2	0.230	5
	30	25	510046	S401P-K25NP	2CCG000436R0001	2	0.230	5
	30	32	510053	S401P-K32NP	2CCG000437R0001	2	0.230	5
	30	40	510060	S401P-K40NP	2CCG000438R0001	2	0.230	5
	20	50	510077	S401P-K50NP	2CCG000439R0001	2	0.230	5
	20	63	510084	S401P-K63NP	2CCG000440R0001	2	0.230	5
 S404P 	40	2	510374	S403P-K2NP	2CCG000472R0001	4	0.460	2
	40	3	510381	S403P-K3NP	2CCG000473R0001	4	0.460	2
	40	4	510398	S403P-K4NP	2CCG000474R0001	4	0.460	2
	40	6	510404	S403P-K6NP	2CCG000477R0001	4	0.460	2
	40	8	510411	S403P-K8NP	2CCG000478R0001	4	0.460	2
	40	10	510428	S403P-K10NP	2CCG000479R0001	4	0.460	2
	40	13	510435	S403P-K13NP	2CCG000480R0001	4	0.460	2
	40	16	510442	S403P-K16NP	2CCG000481R0001	4	0.460	2
	30	20	510459	S403P-K20NP	2CCG000482R0001	4	0.460	2
	30	25	510466	S403P-K25NP	2CCG000483R0001	4	0.460	2
	30	32	510473	S403P-K32NP	2CCG000484R0001	4	0.460	2
	30	40	510480	S403P-K40NP	2CCG000485R0001	4	0.460	2
	20	50	510497	S403P-K50NP	2CCG000486R0001	4	0.460	2
	20	63	510503	S403P-K63NP	2CCG000488R0001	4	0.460	2

Ordering details for auxiliary switch and signal contacts on page 49–50

SMISSLINE TP plug-in system

Miniature circuit breaker (MCB) for UL489 277/480 V AC SUP400 technical features

Technical Data

General Data	
Standards	UL 489, CSA 22.2 No. 5
Rated voltage	277/480 V AC
Poles	1P, 2P, 3P
Tripping characteristics	K
Rated current I_n	2 to 30 A
Rated frequency f	50/60 Hz
Short circuit current rating (acc. to UL 489)	10 kA
Overvoltage category	III
Pollution degree	2
Calibration temperature	40 °C
Mechanical Data	
Housing	RAL 7035
Toggle	Black sealable
Contact position indication	Real CPI (green OFF / red ON)
L1/L2/L3 position indication	Yes
Protection degree acc. to EN 60529	IP20*, IP40 in enclosure with cover
Label holder	Yes
Mechanical endurance	10,000 ops.
Shock resistance acc. to IEC/EN 61373	5 g/30 ms, 3 shocks
Vibration resistance acc. to IEC/EN 60068-2-6	2 … 13.2 Hz/1 mm 13.2 … 100 Hz/0.7 g, 5 cycles 5 … 150 … 5 Hz/1 g, 4 sweeps
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30	28 cycles with 55 °C/90 … 96 % and 25 °C/95 … 100 %
Ambient temperature	–13 °F ... +131 °F; –25 … +55 °C
Storage temperature	–40 °F ... +158 °F; –40 … +70 °C
Installation	
Terminal type F	Failsafe bi-directional cylinder-lift terminal (shock protected)
Terminal rigid IEC connections (solid/stranded)	Single wire only, rigid IEC connections (solid/stranded): 0.75…35 mm^2 (front slot), 0.75…10 mm^2 (rear slot) Single wire only, flexible IEC connections: 0.75…25 mm^2 (front side), 0.75…6 mm^2 (rear slot)
Terminal UL connections	Single wire only: AWG 14…8, Cu only
	AWG 14-8 single conductor CU only
Torque	2.8 Nm, 25 in. lbs.
Stripping length	12.5 mm
Wire temperature	60/75 °C
Screwdriver	No. 2 Pozidrive
Terminal at line side	Movable plug-on terminal L1, L2, L3
Mounting	SMISSLINE TP socket system only
Mounting position	Any
Dimensions and weight	
Pole weight	120 g

* Also fulfilling the requirement acc. to protection degree IPXXB

The devices are suitable with
– S2C-H6RU (auxiliary contact)
– S2C-S6RU (signal/auxiliary contact)
– E210-DH (false pole 1/2 module)
– SA (locking device)

SMISSLINE TP plug-in system

Miniature circuit breaker SUP400 for branch circuit protection acc. to UL489
File E312425





Ordering Data

Number of poles	Rated current I_n	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	A	EAN	Type code	Order code		kg	pc.
1	2	1506759	SUP401M-K2	2CCG000142R0001		0.120	10
	3	1506766	SUP401M-K3	2CCG000143R0001		0.120	10
	4	1506773	SUP401M-K4	2CCG000144R0001		0.120	10
	5	1506865	SUP401M-K5	2CCG000153R0001		0.120	10
	6	1506780	SUP401M-K6	2CCG000145R0001		0.120	10
	8	1506797	SUP401M-K8	2CCG000146R0001		0.120	10
	10	1506803	SUP401M-K10	2CCG000147R0001		0.120	10
	13	1506810	SUP401M-K13	2CCG000148R0001		0.120	10
	15	1506872	SUP401M-K15	2CCG000154R0001		0.120	10
	16	1506827	SUP401M-K16	2CCG000149R0001		0.120	10
	20	1506834	SUP401M-K20	2CCG000150R0001		0.120	10
	25	1506841	SUP401M-K25	2CCG000151R0001		0.120	10
	30	1506858	SUP401M-K30	2CCG000152R0001		0.120	10

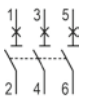




Ordering Data

Number of poles	Rated current I_n	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	A	EAN	Type code	Order code		kg	pc.
2	2	1506384	SUP402M-K2	2CCG000106R0001		0.240	5
	3	1506391	SUP402M-K3	2CCG000107R0001		0.240	5
	4	1506506	SUP402M-K4	2CCG000108R0001		0.240	5
	5	1506599	SUP402M-K5	2CCG000117R0001		0.240	5
	6	1506513	SUP402M-K6	2CCG000109R0001		0.240	5
	8	1506520	SUP402M-K8	2CCG000110R0001		0.240	5
	10	1506537	SUP402M-K10	2CCG000111R0001		0.240	5
	13	1506544	SUP402M-K13	2CCG000112R0001		0.240	5
	15	1506605	SUP402M-K15	2CCG000118R0001		0.240	5
	16	1506551	SUP402M-K16	2CCG000113R0001		0.240	5
	20	1506568	SUP402M-K20	2CCG000114R0001		0.240	5
	25	1506575	SUP402M-K25	2CCG000115R0001		0.240	5
	30	1506582	SUP402M-K30	2CCG000116R0001		0.240	5
3	2	1506612	SUP403M-K2	2CCG000119R0001		0.360	3
	3	1506629	SUP403M-K3	2CCG000120R0001		0.360	3
	4	1506636	SUP403M-K4	2CCG000121R0001		0.360	3
	5	1506728	SUP403M-K5	2CCG000130R0001		0.360	3
	6	1506643	SUP403M-K6	2CCG000122R0001		0.360	3
	8	1506650	SUP403M-K8	2CCG000123R0001		0.360	3
	10	1506667	SUP403M-K10	2CCG000124R0001		0.360	3
	13	1506674	SUP403M-K13	2CCG000125R0001		0.360	3
	15	1506735	SUP403M-K15	2CCG000131R0001		0.360	3
	16	1506681	SUP403M-K16	2CCG000126R0001		0.360	3
	20	1506698	SUP403M-K20	2CCG000127R0001		0.360	3
	25	1506704	SUP403M-K25	2CCG000128R0001		0.360	3
	30	1506711	SUP403M-K30	2CCG000129R0001		0.360	3





SMISSLINE TP plug-in system

RCCBs F400 series, A type



F402



F404

F402 A type

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct (with IΔn = 30 mA) contacts.

Application: residential, commercial, industrial.

Standard: IEC/EN 61008

Marking: according to EN 61008

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 801254 EAN	Order details Type code	Order details Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	10	25	2037033	F402 A 25/0.01	2CSF502110R0250		0.250	1
	30	25	2034339	F402 A 25/0.03	2CSF502110R1250		0.250	1
	30	40	2036937	F402 A 40/0.03	2CSF502110R1400		0.250	1
	100	40	2034230	F402 A 40/0.1	2CSF502110R2400		0.250	1

F404 A type

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct (with IΔn = 30 mA) contacts. Product helpful where for installation habits, for wiring with busbars or cables, for special needs neutral on the left is needed.

Application: residential, commercial, industrial.

Standard: IEC/EN 61008

Marking: according to EN 61008

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 761227 EAN	Order details Type code	Order details Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	25	0104253	F404 A 25/0.03	2CCF544110E0250		0.430	1
	30	40	0104260	F404 A 40/0.03	2CCF544110E0400		0.430	1
	100	40	0104277	F404 A 40/0.1	2CCF544120E0400		0.430	1
	300	40	0104284	F404 A 40/0.3	2CCF544130E0400		0.430	1
	30	63	0104291	F404 A 63/0.03	2CCF544110E0630		0.430	1
	100	63	0104307	F404 A 63/0.1	2CCF544120E0630		0.430	1
	300	63	0104314	F404 A 63/0.3	2CCF544130E0630		0.430	1

F404 A type $16^2/_3$ Hz

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct (with IΔn = 30 mA) contacts.

The RCCB F200 $16^2/_3$ Hz can work at rated frequency of $16^2/_3$ Hz which is common in railways applications

Application: railways

Standard: IEC/ EN 61008

Marking: according to EN 61008

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 761227 EAN	Order details Type code	Order details Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	63	0104376	F404 A-LF 63/0.03	2CCF544110E0631		0.430	1
	300	63	0104383	F404 A-LF 63/0.3	2CCF544130E0631		0.430	1

SMISSLINE TP plug-in system

RCCBs F400 series, A APR type



F402

	F402...K	F404...K	F404...S	F404...B
Rated voltage U_n:	230V	230/400V	230/400V	230/400V
Number of poles:	2	4	4	4
Rated frequency f_n:	45 ... 60Hz	45 ... 60Hz	45 ... 60Hz	45 ... 60Hz
Resistance to surge current:	3kA 8/20µs	3kA 8/20µs	5kA 8/20µs	1000 A ≤ 300 ms ≥ 40 ms
Total trip time (average value)				
– at IΔn	240ms	120 ... 300ms	150 ... 500ms	
– at 5 IΔn	≤ 40ms		40 ...150ms	
Delay time at 5 IΔn:	10ms	10ms	90 ms	
Resistance to short circuits (kA):	10kA in conjunction with an upstream fuse gL / gG 100A or or a high performance MCB S800 100A	10kA	10kA	10kA 10,000 electrical operating cycles 10,000 mechanical operating cycles
Connection load side terminal	Top terminal type: Failsafe bi-directional cylinder-lift terminal with double slot 25/10 mm² Top terminal rigid IEC connections (solid/stranded): – Single: 0.75 ÷ 25 mm² (front slot), 0.75 ÷ 10 mm² (rear slot) – Multiple: 2 x 0.75 ÷ 10 mm² (front slot), 2 x 0.75 ÷ 6 mm² (rear slot), with cables of same type and size Top terminal flexible IEC connections: – Single: 0.75 ÷ 16 mm² (front side), 0.75 ÷ 6 mm² (rear slot) – Multiple: 2 x 0.75 ÷ 10 mm² (front slot), 2 x 0.75 ÷ 6 mm² (rear slot), with cables of same type and size			
Degree of protection:	IP20 in panel IP40	IP20 in panel IP40	IP20 in panel IP40	IP20 in panel IP40
Electrical endurance:	10 000 ops	10 000 ops	10 000 ops	10,000 electrical operating cycles 20,000 mechanical operating cycles
Mechanical endurance:	10 000 ops	10 000 ops	10 000 ops	10 000 ops
Resistance to climate acc. to:	EN 61008	EN 61008	EN 61008	EN 62423
Vibration resistance	2...13.2 Hz/1 mm 13.2...100 Hz/0.7 g, 5 cycles 5...150...5 Hz/1 g, 4 sweeps			
Vibration resistance acc. to IEC/EN 60068-2-6:	2...13.2 Hz/1 mm 13.2...100 Hz/0.7 g, 5 cycles 5...150...5 Hz/1 g, 4 sweeps			
Mounting position:	any	any	any	any
Ambient temperature:	–25 °C ... +55 °C	–25 °C ... +55 °C	–25 °C ... +55 °C	25...+70 for system current <= 32 A -25...+65 for system current = 40 A -25...+50 for system current = 63 A
Vibration resistance:	5g 5 ... 150 ... 5Hz	5g 5 ... 150 ... 5Hz	5g 5 ... 150 ... 5Hz	5g 5 ... 150 ... 5Hz

SMISSLINE TP plug-in system

RCCB F404 series - B type for continuous, selective continuous type fault currents technical features



F 404 B

F404 B RCCBs provide additional protection against direct contact and are the right choice to ensure maximum system safety thanks to early detection of fault currents with continuous waveforms or high frequencies.

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 761227 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	25	1506285	F404B-25/0.03	2CCG000052R0001		0.435	1
4	30	40	1506292	F404B-40/0.03	2CCG000053R0001		0.435	1
4	30	63	1506308	F404B-63/0.03	2CCG000054R0001		0.435	1
4	300	25	1506315	F404B-25/0.3	2CCG000055R0001		0.435	1
4	300	40	1506322	F404B-40/0.3	2CCG000056R0001		0.435	1
4	300	63	1506339	F404B-63/0.3	2CCG000057R0001		0.435	1

SMISSLINE TP plug-in system

RCCBs F400 series, A K type



F402

F402 A K type, short-time delayed

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing the best compromise between safety and continuity in the service thanks to the resistance to unwanted trippings; protection against indirect contacts and additional protection against direct (IΔn = 30 mA) contacts.

Application: residential, commercial, industrial.

Standard: IEC/EN 61008

Surge current resistance (wave 8/20) = 3000 A

Marking: according to EN 61008

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 761227 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
2	30	40	0104482	F402 A-K 40/0.03	2CCF552310E0400		0.250	1



FS 404 K and S

F404 A K type, short-time delayed

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing the best compromise between safety and continuity in the service thanks to the resistance to unwanted trippings; protection against indirect contacts and additional protection against direct (IΔn = 30 mA) contacts.

Application: residential, commercial, industrial.

Standard: IEC/EN 61008

Surge current resistance (wave 8/20) = 3000 A

Marking: according to EN 61008

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 761227 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	30	40	0104321	F404 A-K 40/0.03	2CCF544310E0400		0.430	1
	100	40	0104338	F404 A-K 40/0.1	2CCF544320E0400		0.430	1
	30	63	0104345	F404 A-K 63/0.03	2CCF544310E0630		0.430	1

F404 A selective type

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents with an intentional tripping delay, which permits to realize the selectivity with downstream instantaneous devices (for more information about selectivity see the technical guide); protection against indirect contacts.

Application: commercial, industrial.

Standard: IEC/EN 61008

Surge current resistance (wave 8/20)=5000 A

Marking: according to EN 61008

Number of poles	Rated residual current IΔn mA	Rated current In A	Bbn 761227 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
4	100	63	0104352	F404 A-S 63/0.1	2CCF544220E0630		0.430	1
	300	63	0104369	F404 A-S 63/0.3	2CCF544230E0630		0.430	1

Residual current operated circuit breaker (RCBO)
The difference lies in the detail

Residual current operated circuit breakers with overcurrent protection (RCBO)
The SMISSLINE residual current operated circuit breakers with overcurrent protection (RCBO) are ideal for protecting people and property in all new and existing distribution systems. The combination of standby current and cable protection in one single device greatly simplifies planning and offers cost benefits. Using a RCBO can e.g. satisfy the minimum level of protection required by regulations in an apartment or in a particular distribution system. Should a residual current arise, only the circuit directly affected is switched off while all other circuits remain in operation.
The short time-delayed residual current operated circuit breaker with overcurrent protection FS401 K is a version particularly suited to unfavourable distribution and load situations. Without limiting the personal protection function in any way, the electronic short time delay prevents nuisance tripping which may arise as a result of capacitive discharge currents.



Type F RCBOs have a minimum non-tripping time of 10 ms and a surge current withstand capacity (resistance against accidental tripping) of 3 kA. The standard functionality is not impaired by overlapping smooth DC residual currents of up to 10 mA. When using Type F RCBOs with short-time delay, there is no risk of false tripping due to (capacitive) currents flowing to ground for short periods.

Reliable recognition of the switching status through the new red/green position indicating device that shows the position of the inner contacts.

Short-circuit breaking capacity of 10 kA to 32 A according to EN/IEC 61009-1
Rated breaking capacity I_{cu} kA
6…16 A and 15 kA 20…32 A acc. to IEC/EN 60947-2.

New, patented bidirectional terminal with captive screws for maximum comfort, safety and flexibility.
The connection takes place in two chambers (35 mm² and 10 mm²).
Two conductors with the same cross-section can be connected in each chamber.

Laser printing for clearly legible information during the entire service life.

SMISSLINE TP plug-in system

Residual current operated circuit breaker (RCBO)

FS401 technical features

		FS401E	FS401M	FS401MK
Standards		IEC/EN 61009-1, IEC/EN 61009-2-1	IEC/EN 61009-1, IEC/EN 61009-2-1	IEC/EN 61009-1, IEC/EN 61009-2-1 IEC/EN 62423
Electrical features				
type (wave form of the earth leakage sensed)		A	A	APR - F
Number of poles		1P + N	1P + N	1P + N
Rated current I_n		$6 \le I_n \le 32$ A	$6 \le I_n \le 32$ A	$6 \le I_n \le 32$ A
Rated sensitivity $I_{\Delta n}$		0.03 A	0.03–0.1 A	0.03–0.3 A
Rated voltage U_e		240 V	240 V	240 V
Insulation voltage U_i		500 V	500 V	500 V
Overvoltage category		III	III	III
Pollution degree		2	2	2
Operating voltage of circuit test		110 V (170 for 30 mA) – 264	110 V (170 for 30 mA) – 264	110 V (170 for 30 mA) – 264
Rated frequency		50/60 Hz	50/60 Hz	50/60 Hz
Rated breaking capacity acc. to IEC/EN 61009-1 I_{cn}		6000 A	10000 A	10000 A
Rated breaking capacity acc. to IEC/EN 60947-2 (only referring to short circuit test)	ultimate I_{cu} kA 6…16 A		25	25
	ultimate I_{cu} kA 20…32 A		15	15
	service I_{cs} kA 6…16 A		15	15
	service I_{cs} kA 20…32 A		7.5	7.5
Rated residual breaking capacity acc. to IEC/ EN 61009-1 $I_{\Delta m}$		6000 A	10000 A	10000 A
Rated impulse withstand voltage (1.2/50) U_{imp}		4 kV	4 kV	4 kV
Dielectric test voltage at ind. freq. for 1 min.		2.5 kV (50/60 Hz, 1 min.)	2.5 kV (50/60 Hz, 1 min.)	2.5 kV (50/60 Hz, 1 min.)
Thermomagnetic release – characteristic	B: $3\ I_n \le I_n \le 5\ I_n$	X	X	X
	C: $5\ I_n \le I_n \le 10\ I_n$	X	X	X
Energy limiting class acc. to EN 61009-1		3	3	3

Mechanical features			
Housing	Insulation group I, light grey RAL 7035	Insulation group I, light grey RAL 7035	Insulation group I, light grey RAL 7036
Toggle	Insulation group II, black RAL 9005, sealable in ON-OFF positions	Insulation group II, black RAL 9005, sealable in ON-OFF positions	Insulation group II, black RAL 9005, sealable in ON-OFF positions
Contact position indication	Green/Red Window	Green/Red Window	Green/Red Window
Endurance	Electrical endurance: 10000 ops Mechanical endurance: 10000 ops		
IP code	IP20, IP40 in enclosure with cover	IP20, IP40 in enclosure with cover	IP20, IP40 in enclosure with cover
Shock resistance acc. to IEC/EN 61373	5 g – 30 ms, 3 shocks	5 g – 30 ms, 3 shocks	5 g – 30 ms, 3 shocks
Vibration resistance acc. to IEC/EN 60068-2-6	2…13.2 Hz/1 mm 13.2…100 Hz/0.7 g, 5 cycles 5…150 … 5 Hz/1 g, 4 waves	2…13.2 Hz/1 mm 13.2…100 Hz/0.7 g, 5 cycles 5…150 … 5 Hz/1 g, 4 waves	2…13.2 Hz/1 mm 13.2…100 Hz/0.7 g, 5 cycles 5…150 … 5 Hz/1 g, 4 waves
Reference temperature for setting of thermal element	30 °C	30 °C	30 °C
Ambient temperature	–25…+60 °C	–25…+60 °C	–25…+60 °C
Storage temperature	–40…+70 °C	–40…+70 °C	–40…+70 °C

Installation	
Terminal type	failsafe bi-directional cylinder-lift terminal (shock protected)
Top terminal rigid IEC connections (solid/stranded)	Single: 0.75 ÷ 35 mm² (front slot), 0.75 ÷ 10 mm² (rear slot) Multiple: 2 x 0.75 ÷ 10 mm² (front slot), 2 x 0.75 ÷ 6 mm² (rear slot), with cables of same type and size
Top terminal flexible IEC connections	Single: 0.75 ÷ 25 mm² (front side), 0.75 ÷ 6 mm² (rear slot) Multiple: 2 x 0.75 ÷ 10 mm² (front slot), 2 x 0.75 ÷ 6 mm² (rear slot), with cables of same type and size

SMISSLINE TP plug-in system

RCBOs FS401 series 10 000-6000 A type



FS 401 M

FS401E A type, B and C characteristic

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn=30 mA).

Application: residential, commercial, industrial.

Standard: IEC/EN 61009, Icn = 6 kA, Icn =10 kA

B, 6 kA according to EN 61009-1

$I_{\Delta n}$	I_n	I_{cn}	Bbn 761227	Order details		Module	Weight 1 piece	Pack unit
[mA]	[A]	[kA]	EAN	Type code	Order code		kg	pc.
30	10	6	1472825	FS401 E-B 10/0.03	2CCL562111E1105	2	0.2	1
30	13	6	0108558	FS401 E-B 13/0.03	2CCL562111E0135	2	0.2	1
30	16	6	0108565	FS401 E-B 16/0.03	2CCL562111E0165	2	0.2	1
30	20	6	0109692	FS401 E-B 20/0.03	2CCL562111E0205	2	0.2	1
30	25	6	0109708	FS401 E-B 25/0.03	2CCL562111E0255	2	0.2	1
30	32	6	0109715	FS401 E-B 32/0.03	2CCL562111E0325	2	0.2	1

C, 6 kA according to EN 61009-1

30	6	6	1472788	FS401 E-C 6/0.03	2CCL562111E1064	2	0.2	1
30	10	6	1472801	FS401 E-C 10/0.03	2CCL562111E1104	2	0.2	1
30	13	6	0108572	FS401 E-C 13/0.03	2CCL562111E0134	2	0.2	1
30	16	6	0108589	FS401 E-C 16/0.03	2CCL562111E0164	2	0.2	1
30	20	6	0104574	FS401 E-C 20/0.03	2CCL562110E0204	2	0.2	1
30	25	6	0104581	FS401 E-C 25/0.03	2CCL562110E0254	2	0.2	1
30	32	6	0104598	FS401 E-C 32/0.03	2CCL562110E0324	2	0.2	1

B, 10 kA according to EN 61009-1

30	6	10	1472641	FS401 M-B 6/0.03	2CCL562110E1065	2	0.2	1
30	10	10	0109685	FS401 M-B 10/0.03	2CCL562110E0105	2	0.2	1
30	13	10	0104505	FS401 M-B 13/0.03	2CCL562110E0135	2	0.2	1
30	16	10	0104512	FS401 M-B 16/0.03	2CCL562110E0165	2	0.2	1
30	20	10	1472689	FS401 M-B 20/0.03	2CCL562110E1205	2	0.2	1
30	25	10	1472726	FS401 M-B 25/0.03	2CCL562110E1255	2	0.2	1
30	32	10	1472764	FS401 M-B 32/0.03	2CCL562110E1325	2	0.2	1

C, 10 kA according to EN 61009-1

30	6	10	1406905	FS401 M-C 6/0.03	2CCL562010E0064	2	0.2	1
30	10	10	0104543	FS401 M-C 10/0.03	2CCL562110E0104	2	0.2	1
30	13	10	0104550	FS401 M-C 13/0.03	2CCL562110E0134	2	0.2	1
30	16	10	0104567	FS401 M-C 16/0.03	2CCL562110E0164	2	0.2	1
30	20	10	1472665	FS401 M-C 20/0.03	2CCL562110E1204	2	0.2	1
30	25	10	1472702	FS401 M-C 25/0.03	2CCL562110E1254	2	0.2	1
30	32	10	1472740	FS401 M-C 32/0.03	2CCL562110E1324	2	0.2	1
100	6	10	142 4534	FS401 M-C6/0.1	2CCL562120E0064	2	0.2	1
100	10	10	1413217	FS401 M-C10/0.1	2CCL562120E0104	2	0.2	1
100	13	10	1490706	FS401 M-C13/0.1	2CCL562120E0134	2	0.2	1
100	16	10	1421618	FS401 M-C16/0.1	2CCL562120E0164	2	0.2	1
100	20	10	1490720	FS401 M-C20/0.1	2CCL562122E0204	2	0.2	1
100	25	10	1490744	FS401 M-C25/0.1	2CCL562122E0254	2	0.2	1
100	32	10	1490768	FS401 M-C32/0.1	2CCL562122E0324	2	0.2	1

SMISSLINE TP plug-in system

RCBOs FS401 series 10 000 A K Type F



FS401 M

FS401 M A K type, short-time delayed

Function: protection against the effects of sinusoidal alternating and direct pulsating earth fault currents, providing an optimal compromise between safety and continuity of service, thanks to the resistance to unwanted tripping; protection against indirect contact and additional protection against direct (IΔn = 30 mA) contact; protection and isolation of resistive and inductive loads.

Application: residential, commercial, industrial.

Standard: IEC/EN 61009

Icn = 10 kA

B, 10 kA according to EN 61009-1

$I_{\Delta n}$	I_n	I_{cn}	Bbn 761227	Order details		Module	Weight 1 piece	Pack unit
[mA]	[A]	[kA]	EAN	Type code	Order code		kg	pc.
30	6	10	1472849	FS401 M K-B 6/0.03	2CCL562130E1035	2	0.2	1
30	10	10	1472887	FS401 M K-B 10/0.03	2CCL562310E1105	2	0.2	1
30	13	10	1472900	FS401 M K-B 13/0.03	2CCL562310E1135	2	0.2	1
30	16	10	1472924	FS401 M K-B 16/0.03	2CCL562310E1165	2	0.2	1
30	20	6	1472962	FS401 M K-B 20/0.03	2CCL562310E1205	2	0.2	1
30	25	6	1473006	FS401 M K-B 25/0.03	2CCL562310E1255	2	0.2	
30	32	6	1473044	FS401 M K-B 32/0.03	2CCL562310E1325	2	0.2	1

C, 10 kA according to EN 61009-1

30	6	10	1404031	FS401 M K-C 6/0.03	2CCL562330E1064	2	0.2	1
30	10	10	1404031	FS401 M K-C 10/0.03	2CCL562310E0104	2	0.2	1
30	13	10	0104604	FS401 M K-C 13/0.03	2CCL562310E0134	2	0.2	1
30	16	10	0104611	FS401 M K-C 16/0.03	2CCL562310E0164	2	0.2	1
30	20	6	0104642	FS401 M K-C 20/0.03	2CCL562310E1204	2	0.2	1
30	25	6	0104642	FS401 M K-C 25/0.03	2CCL562310E1254	2	0.2	1
30	32	6	0104642	FS401 M K-C 32/0.03	2CCL562310E1324	2	0.2	1

C, 10 kA according to EN 61009-1

300	6	10	1473068	FS401 M K-C 6/0.3	2CCL562130E3034	2	0.2	1
300	10	10	1473082	FS401 M K-C 10/0.3	2CCL562330E1104	2	0.2	1
300	13	10	1473105	FS401 M K-C 13/0.3	2CCL562330E1134	2	0.2	1
300	16	10	1473143	FS401 M K-C 16/0.3	2CCL562330E1164	2	0.2	1
300	20	10	1473181	FS401 M K-C 20/0.3	2CCL562330E1204	2	0.2	1
300	25	10	1473228	FS401 M K-C 25/0.3	2CCL562330E1254	2	0.2	1
300	32	10	1473266	FS401 M K-C 32/0.3	2CCL562330E1324	2	0.2	1

SMISSLINE TP plug-in system

RCBOs FS403 series 10000-6000 A type and short time delay Type F



FS 403 M

4-pole RCBO from the ABB SMISSLINE protective devices range

The combination of circuit protection and a residual current protection in one device as 4-pole RCBO simplifies both – planning and installation. It enables you to provide perfect protection in one device. This protection consists of:

- Short circuit protection
- Overload protection
- Residual current protection
- Preventive fire protection

High rated short-circuit breaking capacity of 10 kA, conforming to EN 61009-1

The I_{cn} 10 kA short-circuit breaking capacity of the RCBO complies with standard EN 61009-1. This standard specifies testing and usage of RCBO's for household and similar uses.
The devices can also be used by non-professionals.
Features and benefits of the new devices:

- Overall width of 72 mm (4 modules)
- Rated sensitivity 30 mA
- Current rating 10 A to 32 A
- B and C tripping characteristics
- Easy Drive double deck terminals on the output side for connecting two conductors in one chamber. The two chambers can accommodate conductors with different cross sections.

Accessory:
Auxiliary- and signal contacts are to attach on to the left of the device through the customer.

Please notice:
For the influence of the ambient temperature and the thermal influences of row mounted RCBO's it is necessary to calculate with the same correction factors like with MCBs.

Please see in Chapter 2 of Electrical installation solutions for buildings - Technical details.

SMISSLINE TP plug-in system

Residual current operated circuit breaker (RCBO)

FS403 technical features

		FS403E	FS403M	FS403MK
Standards		IEC 61009-1, EN 61009-1, EN 61009-2-1	IEC 61009-1, EN 61009-1, EN 61009-2-1	IEC/EN 61009-1, IEC/EN 61009-2-1, IEC/EN 62423
Electrical features				
type (wave form of the earth leakage sensed)		A	A	APR - F
Number of poles		3P + N	3P + N	3P + N
Rated current I_n		$6 \le I_n \le 32$ A	$6 \le I_n \le 32$ A	$6 \le I_n \le 32$ A
Rated sensitivity $I_{\Delta n}$		0.03 A	0.03–0.1 A	0.03–0.3 A
Rated voltage U_e		240/415 V	240/415 V	240/415 V
Insulation voltage U_i		500 V	500 V	500 V
Overvoltage category		III	III	III
Pollution degree		2	2	2
Operating voltage of circuit test		110 V (170 for 30 mA) – 264	110 V (170 for 30 mA) – 264	110 V (170 for 30 mA) – 264
Rated frequency		50/60 Hz	50/60 Hz	50/60 Hz
Rated breaking capacity acc. to IEC/EN 61009-1 I_{cn}		6000 A	10000 A	10000 A
Rated breaking capacity acc. to IEC/EN 60947-2 (only referring to short circuit test)	ultimate I_{cu} kA 6…16 A		25	25
	service I_{cs} kA 6…16 A		15	15
	ultimate I_{cu} kA 20…32 A		15	15
	service I_{cs} kA 20…32 A		7.5	7.5
Rated residual breaking capacity acc. to IEC/ EN 61009-1 $I_{\Delta m}$		6000 A	10000 A	10000 A
Rated impulse withstand voltage (1.2/50) U_{imp}		4 kV	4 kV	4 kV
Dielectric test voltage at ind. freq. for 1 min.		2.5 kV (50/60 Hz, 1 min.)	2.5 kV (50/60 Hz, 1 min.)	2.5 kV (50/60 Hz, 1 min.)
Thermomagnetic release – characteristic	B: $3\ I_n \le I_n \le 5\ I_n$		X	X
	C: $5\ I_n \le I_n \le 10\ I_n$	X	X	X
Energy limiting class acc. to EN 61009-1		3	3	3

Mechanical features			
Housing	Insulation group I, light grey RAL 7035	Insulation group I, light grey RAL 7035	Insulation group I, light grey RAL 7036
Toggle	Insulation group II, black RAL 9005, sealable in ON-OFF positions	Insulation group II, black RAL 9005, sealable in ON-OFF positions	Insulation group II, black RAL 9005, sealable in ON-OFF positions
Contact position indication	Green/Red Window	Green/Red Window	Green/Red Window
Electrical life	10000 operations	10000 operations	10000 operations
Mechanical life	10000 operations	10000 operations	10000 operations
IP code	IP20, IP40 in enclosure with cover	IP20, IP40 in enclosure with cover	IP20, IP40 in enclosure with cover
Shock resistance acc. to IEC/EN 61373	5 g – 30 ms, 3 shocks	5 g – 30 ms, 3 shocks	5 g – 30 ms, 3 shocks
Vibration resistance acc. to IEC/EN 60068-2-6	2…13.2 Hz/1 mm 13.2…100 Hz/0.7 g, 5 cycles 5…150 … 5 Hz/1 g, 4 waves	2…13.2 Hz/1 mm 13.2…100 Hz/0.7 g, 5 cycles 5…150 … 5 Hz/1 g, 4 waves	2…13.2 Hz/1 mm 13.2…100 Hz/0.7 g, 5 cycles 5…150 … 5 Hz/1 g, 4 waves
Reference temperature for setting of thermal element	30 °C	30 °C	30 °C
Ambient temperature	–25…+60 °C	–25…+60 °C	–25…+60 °C
Storage temperature	–40…+70 °C	–40…+70 °C	–40…+70 °C

Installation	
Terminal type	failsafe bi-directional cylinder-lift terminal (shock protected)
Top terminal rigid IEC connections (solid/stranded)	Single: 0.75 ÷ 35 mm² (front slot), 0.75 ÷ 10 mm² (rear slot) Multiple: 2 x 0.75 ÷ 10 mm² (front slot), 2 x 0.75 ÷ 6 mm² (rear slot), with cables of same type and size
Top terminal flexible IEC connections	Single: 0.75 ÷ 25 mm² (front side), 0.75 ÷ 6 mm² (rear slot) Multiple: 2 x 0.75 ÷ 10 mm² (front slot), 2 x 0.75 ÷ 6 mm² (rear slot), with cables of same type and size

SMISSLINE TP plug-in system

RCBOs FS403 series 10 000-6000 A type and short time delay Type F



FS 403 M

FS403 M A type, B and C characteristic

Function: protection of end user single-phase circuits against overload and short-circuit currents; protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contact and additional protection against direct contact (IΔn = 30 mA).

Application: residential, commercial, industrial.

Standard: IEC/EN 61009, Icn = 6 kA, Icn =10 kA

B, 10 kA according to EN 61009-1

Poles	Sensitivity	Rated current	Rated breaking capacity	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	IΔn mA	In A	Icn kA	EAN	Type code	Order code		kg	pc.
4	30	6	10	1434434	FS403M-B6/0.03	2CCL564110E0065		0.410	1
		10	10	1407612	FS403M-B10/0.03	2CCL564110E0105		0.410	1
		13	10	1407629	FS403M-B13/0.03	2CCL564110E0135		0.410	1
		16	10	1407636	FS403M-B16/0.03	2CCL564110E0165		0.410	1
		20	10	1442576	FS403M-B20/0.03	2CCL563110E0205		0.410	1
		25	10	1442590	FS403M-B25/0.03	2CCL563110E0255		0.410	1
		32	10	1442613	FS403M-B32/0.03	2CCL563110E0325		0.410	1

C, 6 kA according to EN 61009-1

Poles	Sensitivity	Rated current	Rated breaking capacity	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	IΔn mA	In A	Icn kA	EAN	Type code	Order code		kg	pc.
4	30	6	6	1419141	FS403E-C6/0.03	2CCL564111E0064		0.410	1
		10	6	1434489	FS403E-C10/0.03	2CCL564111E0104		0.410	1
		13	6	1434519	FS403E-C13/0.03	2CCL564111E0134		0.410	1
		16	6	1434601	FS403E-C16/0.03	2CCL564111E0164		0.410	1
		20	6	1409609	FS403E-C20/0.03	2CCL564111E0203		0.410	1
		25	6	1408770	FS403E-C25/0.03	2CCL564111E0254		0.410	1
		32	6	1408787	FS403E-C32/0.03	2CCL564111E0324		0.410	1

C, 10 kA according to EN 61009-1

Poles	Sensitivity	Rated current	Rated breaking capacity	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	IΔn mA	In A	Icn kA	EAN	Type code	Order code		kg	pc.
4	30	6	10	1419127	FS403M-C6/0.03	2CCL564110E0064		0.410	1
		10	10	1407674	FS403M-C10/0.03	2CCL564110E0104		0.410	1
		13	10	1407681	FS403M-C13/0.03	2CCL564110E0134		0.410	1
		16	10	1407698	FS403M-C16/0.03	2CCL564110E0164		0.410	1
		20	10	1442569	FS403M-C20/0.03	2CCL563110E0204		0.410	1
		25	10	1442583	FS403M-C25/0.03	2CCL563110E0254		0.410	1
		32	10	1442606	FS403M-C32/0.03	2CCL563110E0324		0.410	1

C, 10 kA according to EN 61009-1

Poles	Sensitivity	Rated current	Rated breaking capacity	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	IΔn mA	In A	Icn kA	EAN	Type code	Order code		kg	pc.
4	100	6	6	1424527	FS403M-C6/0.1	2CCL564121E0064		0.410	1
		10	10	1424510	FS403M-C10/0.1	2CCL564121E0104		0.410	1
		13	10	1442620	FS403M-C13/0.1	2CCL563120E0134		0.410	1
		16	10	1420109	FS403M-C16/0.1	2CCL564120E0164		0.410	1
		20	10	1442637	FS403M-C20/0.1	2CCL563120E0204		0.410	1
		25	10	1442644	FS403M-C25/0.1	2CCL563120E0254		0.410	1
		32	10	1442651	FS403M-C32/0.1	2CCL563120E0324		0.410	1

SMISSLINE TP plug-in system

RCBOs FS403 series 10 000-6000 A type and short time delay Type F



FS 403 M

B, 10 kA according to EN61009-1 short time delayed (APR) Type F

Poles	Sensitivity	Rated current	Rated breaking capacity	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	IΔn mA	In A	Icn kA	EAN	Type code	Order code		kg	pc.
4	30	6	10	1470951	FS403MK-B6/0.03	2CCL564310E0065		0.410	1
		10	10	1470999	FS403MK-B10/0.03	2CCL564310E0105		0.410	1
		13	10	1471033	FS403MK-B13/0.03	2CCL564310E0135		0.410	1
		16	10	1471071	FS403MK-B16/0.03	2CCL564310E0165		0.410	1
		20	10	1470777	FS403MK-B20/0.03	2CCL564310E0205		0.410	1
		25	10	1470814	FS403MK-B25/0.03	2CCL564310E0255		0.410	1
		32	10	1470852	FS403MK-B32/0.03	2CCL564310E0325		0.410	1

C, 10 kA according to EN61009-1 short time delayed (APR) Type F

Poles	Sensitivity	Rated current	Rated breaking capacity	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	IΔn mA	In A	Icn kA	EAN	Type code	Order code		kg	pc.
4	30	6	10	1470937	FS403MK-C6/0.03	2CCL564310E0064		0.410	1
		10	10	1470975	FS403MK-C10/0.03	2CCL564310E0104		0.410	1
		13	10	1471019	FS403MK-C13/0.03	2CCL564310E0134		0.410	1
		16	10	1471057	FS403MK-C16/0.03	2CCL564310E0164		0.410	1
		20	10	1470753	FS403MK-C20/0.03	2CCL564310E0204		0.410	1
		25	10	1470791	FS403MK-C25/0.03	2CCL564310E0254		0.410	1
		32	10	1470838	FS403MK-C32/0.03	2CCL564310E0324		0.410	1

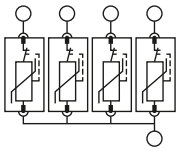
C, 10 kA according to EN 61009-1

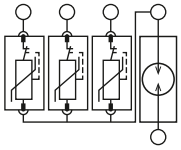
Poles	Sensitivity	Rated current	Rated breaking capacity	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	IΔn mA	In A	Icn kA	EAN	Type code	Order code		kg	pc.
4	300	6	10	1471095	FS403MK-C6/0.3	2CCL564330E0064		0.410	1
		10	10	1471118	FS403MK-C10/0.3	2CCL564330E0104		0.410	1
		13	10	1471132	FS403MK-C13/0.3	2CCL564330E0134		0.410	1
		16	10	1471156	FS403MK-C16/0.3	2CCL564330E0164		0.410	1
		20	10	1470876	FS403MK-C20/0.3	2CCL563330E0204		0.410	1
		25	10	1470890	FS403MK-C25/0.3	2CCL563330E0254		0.410	1
		32	10	1470913	FS403MK-C32/0.3	2CCL563330E0324		0.410	1

SMISSLINE TP plug-in system

Surge arrester







The type 2 surge arresters in the QuickSafe product range are suitable for protecting electrical low voltage systems and terminals in the 240/415 V system. The devices can be used as type 2 surge arresters within the scope of the lightning protection zone concept at zone transition 0B–1 and higher. The high nominal discharge capability of 20 kA makes it possible for the equipment to have a longer service life in comparison to the minimum requirements of the standard. The devices consist of a basic unit and pluggable protection modules, which can be removed extremely easily to carry out insulation measurement. They are fully compatible with SMISSLINE installation devices and the surge arresters in the ABB System pro M model series. The surge arresters are tested as type 2 arresters in accordance with the EN/IEC 61643-11 test standard.

Mounting

Installation and electrical connection

The over voltage protection device “OVR” will be installed near the front of the protected consumers conditioning.

The surge arrester is to be mounted right after the Incoming block of the socket system.

The OVR404 is snapped directly onto the SMISSLINE bus bar system.

SMISSLINE TP plug-in system

Surge arrester

Type	OVR404 4L 40-275 P TS QS	OVR404 3N 40-275 P TS QS
Technologie	varistor	Varistor/gaz tube (N)
System network	TNS	TT–TNS
Electrical features		
Standard	IEC 61643-11/EN 61643-11	IEC 61643-11/EN 61643-11
Type / test class	Type 2	Type 2
Number of pole	4	4
Nominal voltage UN (L-N, L-L)	240/415 V	240/415 V
Type of voltage	a.c. 45–65 Hz	a.c. 45–65 Hz
Max. cont. operating voltage U_c	275 V AC	275 V AC
Nominal discharge current I_n (8/20)	20 kA	20 kA
Maximum discharge current I_{max} (8/20)	40 kA	40 kA
Maximum impulse current I_{imp} (10/350)	2 kV	2 kA
Voltage protection level U_p at I_n (L-N / N-PE / L-PE)	1.5 kV	1.25/1.4/1.5 kV
Voltage protection level U_p at 3 kA (L-N / N-PE / L-PE)	0.5 kV	0.8/1.4/0.85 kV
Voltage protection level U_p at 5 kA (L-N / N-PE / L-PE)	0.7 kV	0.85/1.4/0.95 kV
Voltage protection level U_p at 10 kA (L-N / N-PE / L-PE)	0.9 kV	1/1.4/1.15 kV
TOV (Temporary overvoltage) withstand U_t (L-N: 5s./N-PE: 200 ms)	337/- V	337/1200 V
Response time Response time	≤ 25 ns	≤ 25 ns
Short-circuit withstand capability Isccr	100 kA	100 kA
Back up prootection circuit breaker	≤ 125 A; S800S B	≤ 125 A; S800S B
Pluggable cartridge	Yes	Yes
Integrated QuickSafe® technology	Yes	Yes
State indicator	Yes	Yes
Auxiliary contact (TS)	Yes	Yes
Installation		
Wire range (L, N, PE)	2.5…25 mm²	2.5…25 mm²
	cable or rope	cable or rope
Connection cross-section	2.5…16 mm² litz wire with ferrule	2.5…16 mm² litz wire with ferrule
Tightening torque	2.8 Nm	2.8 Nm
Auxiliary contact (TS)		
Contacts information	1 NO – 1 NC	1 NO – 1 NC
Max. load/current	12 V DC – 10 mA	12 V DC – 10 mA
Min. load/current	250 V AC – 1 A	250 V AC – 1 A
	1.5 mm²	1.5 mm²
Operating temperature	–25 °C – +60 °C	–25 °C – +60 °C
Stocking temperature	–25 °C – +80 °C	–25 °C – +80 °C

Back up protection

Typ 2 QuickSafe® Surge Protective Devices	Prospective short circuit current at SPD location (Ip)	Circuit breaker maximum ratings 1) curve B or C	Fuse 2) (gL - gG)
Maximum ratings			
I_n: 5, 20, 30 kA	0,625 kA < I_p < 100 kA	S800S B or C – 125 A [2)]	125 A fuse
U_c: 275, 350, 440, 600 V			

1) Maximum ratings, must be in accordance with the installation to follow coordination rules with main or upstream short circuit protection(s).

2) up to Ip ≤ 50 kA

SMISSLINE TP plug-in system

Surge arrester



OVR404

Surge arrester OVR404

Rated current	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
Isn (8/20 µs) kA	EAN	Type code	Order code		kg	pc.
20	1455491	OVR404 4L 40-275 P TS QS	2CCF606000R0001		0.470	1
20	1455507	OVR404 3N 40-275 P TS QS	2CCF606002R0001		0.450	1

SMISSLINE TP plug-in system

Switch disconnector



IS404 63

Technical data for switch disconnector IS404

Rated voltage Un	230/400 V~
Rated current In	63 A
Rated frequency fn	50 Hz
Number of poles	4
Rated impulse withstand voltage	6 kV
Connection cross-sections Cu	Top terminal type: Failsafe bi-directional cylinder-lift terminal with double slot 25/10 mm² Top terminal rigid IEC connections (solid/stranded): – Single: 0.75 ÷ 25 mm² (front slot), 0.75 ÷ 10 mm² (rear slot) – Multiple: 2 x 0.75 ÷ 10 mm² (front slot), 2 x 0.75 ÷ 6 mm² (rear slot), with cables of same type and size Top terminal flexible IEC connections: – Single: 0.75 ÷ 16 mm² (front side), 0.75 ÷ 6 mm² (rear slot) – Multiple: 2 x 0.75 ÷ 10 mm² (front slot), 2 x 0.75 ÷ 6 mm² (rear slot), with cables of same type and size
Degree of protection	IP20, IP40 in enclosure with cover
Endurance, mechanical/electrical	5000 operating cycles
Mounting position	any
Ambient temperature	–25 °C ... +60 °C
Specifications	EN/IEC 60947-3
Weight (approx.)	250 g
Switching duty	AC-22A
Environmental conditions (damp heat) acc. to IEC/EN 60068	-2-30 28 cycles with 55 °C/90...96 % and 25 °C/95...100 %

General switch disconnector

When used in a smissline socket system, the switch disconnector can be used instead of the incoming terminal block for up to 63 A.
With the smissline IS404 switch disconnector, individual loads, groups of loads or entire system parts can be separated or connected to the input supply.
The key features of the switch disconnector

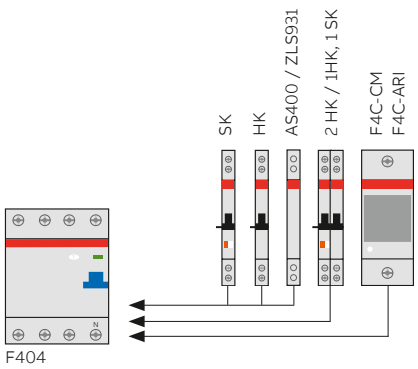
- Input supply switch
- On-Off function
- Clear indication of switching position
- Snap-on auxiliary switch available
- Uniform smissline design

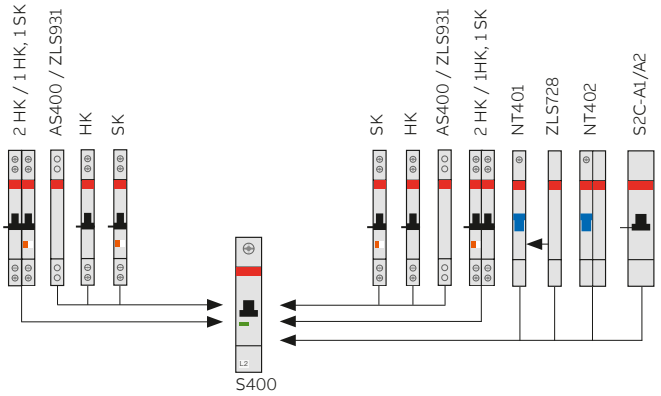
Switch disconnector IS404

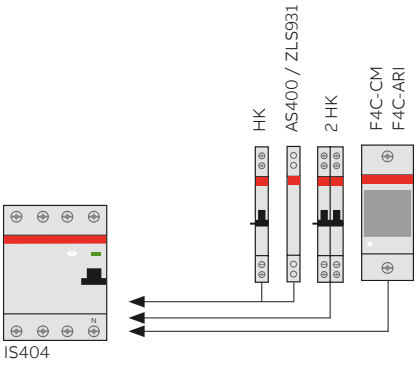
	Rated current	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	In kA	EAN	Type code	Order code		kg	pc.
	63	0104390	IS404 63	2CCF544160E0630		0.380	1

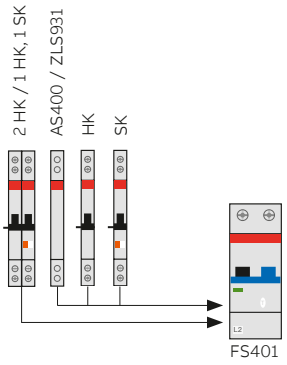
SMISSLINE TP plug-in system

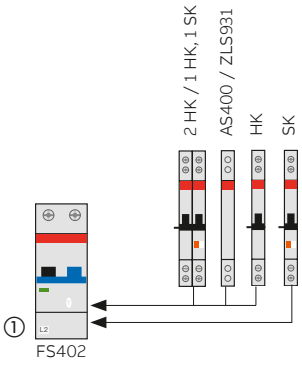
Auxiliary elements and accessories





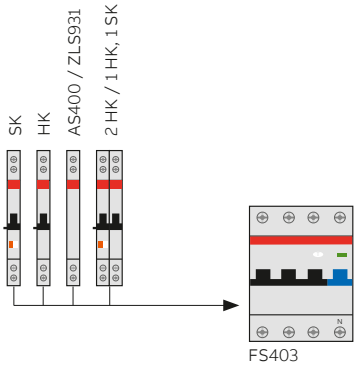




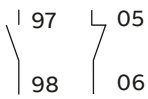


On each protective device can be mounted:

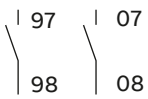
1 auxiliary switch
or 1 signal contact
or 2 auxiliary contact switches
or 1 auxiliary switch and 1 signal contact



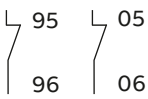
Contact description signal contact



SK40011

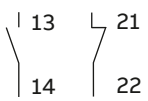


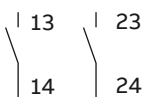
SK40020

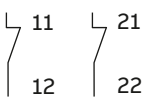


SK40002

Contact description auxiliary switch







① If you use an auxiliary switch and a signal contact you must connect first the signal contact on the MS325

SMISSLINE TP plug-in system

Adapter for motor starter MS116, MS132, MS325







Adapter for MS116, MS132

Designation	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Adapter MS116/132 L123 wire bottom feed	1414597	ZMS930	2CCA182520R0001		0.030	1
Adapter MS116/132 L123LALB wire bottom feed	1414580	ZMS931	2CCA182522R0001		0.062	1
Adapter MS116/132 L123 wire top feed	1414573	ZMS932	2CCA182524R0001		0.030	1
Adapter MS116/132 L123LALB wire top feed	1414566	ZMS933	2CCA182526R0001		0.062	1
Adapter MS116/132 empty	1414559	ZMS934	2CCA182512R0001		0.034	1
Intermediate piece 9 mm	1414412	ZMS935	2CCA182616R0001		0.007	1
Adapter MS116/132 L123LA wire top feed	1424626	ZMS937	2CCA182525R0001		0.058	1
Adapter MS116/132 L123LA wire bottom feed	1424619	ZMS936	2CCA182521R0001		0.058	1
Adapter for MS116, MS132 Push in terminals						
Adapter MS116/132 L123 wire bottom for push in terminals	1503215	ZMS930-PI	2CCF182550R0001		0.058	1
Adapter MS116/132 L123 wire top for push in terminals	1503208	ZMS932-PI	2CCF182551R0001		0.058	1

SMISSLINE TP plug-in system

Auxiliary switch and signal contacts

MCB S400, RCCB F404, RCCB F402, RCBO FS401

Technical data for auxiliary switch and signal contact

	Signal contact SK400	Auxiliary switch HK400
Rated voltage Un	400 V	400 V
Rated impulse withstand voltage	4 kV	4 kV
Rated current – Ith – AC15 – DC13 – DC13	 6 A 2 A/230 V / 1 A/400 V 0.55 A/125 V= 0.27 A/250 V=	 6 A 2 A/230 V / 1 A/400 V 0.55 A/125 V= 0.27 A/250 V=
Minimum current/voltage (to ensure reliable electrical operation)	10 mA 12 V=	10 mA 12 V=
Connection cross-sections Rigid IEC connections (solid/stranded)	Single: 0.75…1.5 mm^2, Multiple: 2 x 0.75…1.5 mm^2, Flexible IEC connections	Single: 0.75…1.5 mm^2, Multiple: 2 x 0.75…1.5 mm^2, Stripping length 7.5 mm
Internal resistance Ri	0.0065 Ω	0.0065 Ω
Power loss at rated current Pv	0.24 W	0.24 W
Ambient temperature	Tmax. +55 ºC Tmin –25 ºC	Tmax. +55 ºC Tmin –25 ºC
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30	28 cycles with 55 °C/90…96 % and 25 °C/95…100 %	
Tightening torque	1 Nm	1 Nm

SMISSLINE TP plug-in system

Auxiliary switch and signal contacts
MCB S400, RCCB F404, RCCB F402, RCBO FS401



HK400..L



HK400..R



SK400..L



SK400..R

Auxiliary switch

The auxiliary switch and signal contacts are supplied with one contacting piece. The signal contact collective alarm are supplied with two contacting pieces.

for left side mounting on MCB S400, RCCB F402, RCBO FS401, FS403

	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
1NO and 1NC	0100910	HK40011-L	2CCS500900R0081		0.045	10
2NO	0111183	HK40020-L	2CCF201112R0001		0.040	10
2NC	0111190	HK40002-L	2CCF201114R0001		0.040	10

for right side mounting on RCCB F404, MCB S400 and IS404

1NO and 1NC	0108619	HK40011-R	2CCS500900R0214	0.045	10
2NO	0111206	HK40020-R	2CCF201113R0001	0.040	10
2NC	0111213	HK40002-R	2CCF201115R0001	0.040	10

Signal contacts

for left side mounting on MCB S400, RCCB F402, RCBO FS401, FS403

	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
1NO and 1NC	0100934	SK40011-L	2CCS500900R0101		0.045	10
2NO	0111107	SK40020-L	2CCF201162R0001		0.040	10
2NC	0111114	SK40002-L	2CCF201164R0001		0.040	10

for right side mounting on RCCB F404 and MCB S400

1NO and 1NC	0108626	SK40011-R	2CCS500900R0215	0.045	10
2NO	0111121	SK40020-R	2CCF201163R0001	0.040	10
2NC	0111138	SK40002-R	2CCF201165R0001	0.040	10

Signal contact collective alarm and auxiliary contact

for left side mounting

	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
1NO	0107964	SK40010-L SA	2CCS500900R0141		0.045	10
1NO	1407902	HK40010-L SA	2CCF201212R0001		0.045	10

for right side mounting

1NO	0108633	SK40010-R SA	2CCS500900R0216	0.045	10
1NO	1407919	HK40010-R SA	2CCF201213R0001	0.045	10

Collective alarm, signal contact contacts the auxiliary busbars LA, LB

A cost-effective collective alarm solution can be implemented without additional wiring by using this arrangement.



SMISSLINE TP plug-in system

Dummy housing, Neutral disconnector, shunt trip



Dummy housing

Connection support dummy housing
for left or right side mounting on MCB S400, RCCB F402, RCCB F404, RCBO FS401

Connection support	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	100958	AS400	2CCS500900R0151		0.045	10
Dummy housing						
Compensation to 18 mm	0100965	ZLS931	2CCS500900R0161		0.035	10



Contacting

Contacting pieces for auxiliary switch and signal contacts

Connection support	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Contacting piece for HK/SK LA, LB Pack contains 100 items	0100972	ZLS632	2CCS500900R0171		0.200	Pack contains 100 items
Contacting piece for HK/SK LA, LB Pack contains 10 items	0109265	ZLS635	2CC5201307R0171		0.020	Pack contains 10 items
Contact Pin	0108640	ZLS633	2CCS500900R0201		0.020	Pack contains 10 items



Neutral disconnector

Neutral disconnector
On the load side terminal two separate conductors can be clamped

Connection support	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Neutral disconnector 9 mm	0100859	NT401 63	2CCS500900R0021		0.045	10
Neutral disconnector 18 mm	0100842	NT402 63	2CCS500900R0011		0.058	10
Compensation to 18 mm for NT401 63	0104710	ZLS728	2CCS400900R0101		0.015	1 Bag contains 5 items



S2C-A

Shunt trip

Function: remote opening of the device when a voltage is applied.
Suitable for MCBs S400 series.

Rated voltage	Bbn 801254	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
12–60 VAC/DC	4016779570992	S 2C-A1	2CDS200909R0001		0.150	1
110–415 VAC/DC, 110–250 VDC	4016779571005	S 2C-A2	2CDS200909R0002		0.150	1

Orders for this two types can be done over DESTO

SMISSLINE TP plug-in system

Technical data IEC/EN 61439-6

Busbar system 125 A

Busbar system touch proof:
Use only for wall mounted application (horizontal or vertical). When installed correctly the requirements of IEC/EN 61439-2 are met.

Number of poles	max. 6 to 110 3p+N / 2 additional bars PE+N
Rated operational voltage (U_e)	690 VAC, 1000 VDC (400 V for LA, LB busbars)
Rated insulation voltage (U_i)	690 VAC, 440 VDC
IP Code	IP20B
Mounting position	horizontal or vertical, direct mounting or mounting on DIN rail acc. to EN 60715 35 mm
Pollution degree	3 (690 V a.c.) 2 (1000 V d.c.)
Rated impulse voltage (U_{imp})	8 kV Main busbars; 6 KV Auxiliary busbars
Rated current of the assembly (I_nA)	Max. 125 A (side feeding) Max. 200 A (center feeding) Max. 250 A (Double feed side or center)
Auxiliary circuit	max. 40 A
Rated current of a circuit (I_{nc})	Main circuit: Max. 125 A
Rated current of Auxiliary circuit	40 A
Rated short-time withstand current (I_{cw})	10 kA / 300 ms
Auxiliary circuit	4 kA / 50 ms
Rated peak withstand current (I_{pk})	Main circuit: 30 kA
Auxiliary circuit	Auxiliary busbars LA, LB 6 kA
Rated frequency (f)	50/60 Hz, DC
Rated conditional short-circuit current (I_{cc})	100 kA (415V), 50 kA (690 V)
Ambient air temperature	max. 60°C
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30	1 cycle with 55 °C/90…96 % and 25 °C/95…100 %
Size of CU bars 3P+N+PE	3 x 10 mm (30 mm²)
Size of CU auxiliary bars La Lb	2 x 5 mm (10 mm²)
Resistance and reactance values for Busbar ZLS200	R 0.325 mΩ/m X 0.295 mΩ/m

	Maximum rated voltage	Maximum rated current	Cross-section of conductors
Incoming terminal block ZLS250–253	690 VAC 1000 VDC	160 A	35 mm²–95 mm² max. 1 wire, 10–25 mm² 1 or 2 wires
Busbar ZLS200	690 VAC 1000 VDC	125 A	
Busbar ZLS202	690 VAC 600 VDC	40 A	
DIN Rail adapters 32 A	690 VAC 600 VDC	32 A Line or neutral	
DIN Rail adapters 63 A	690 VAC 600 VDC	63 A Line or neutral	
Combi module	690 VAC 600 VDC	32 A Line or neutral 6A LA, LB	

The SMISSLINE system and components are tested for vibration according to IEC 60068-2-6 (2–13.2 Hz/1 mm displacement, 13.2–100 Hz/0.7 g) and for Miniature circuit breakers (5 g, 20 frequency cycles 5 …150 … 5 Hz at 0.8 rated current)

Standard: IEC 60068-2-6
Environmental testing – Part 2–6: Test Fc. Vibration (sinusoidal)

Rated Voltage (U_e)	Rated conditional short-circuit current (I_{cc})	Incoming current of main busbars (L1, L2, L3, N)	Short circuit protection device (SCPD)	
			Fuse	MCCB
415 V	100 kA	250 A	NH1 gG 690 V/250 A	ABB T_{max} XT Serie up to 250 A
690 V	25 kA	250 A	NH1 gG 690 V/250 A	ABB T_{max} XT Serie up to 250 A
		Inocming current of auxiliary busbars (La, Lb)		
	25 kA	40 A	NH00 gG 415 V/40 A	ABB Type S800 (240/415 VAC)

SMISSLINE TP plug-in system

Technical data data UL508; Approvals for US and CA: cULus
Busbar system 125 A

SMISSLINE TP system for UL 508 – Industrial Control Equipment, CSA C22.2 No. 14 – Industrial Control Equipment UL File E222110

Technical data UL508 Industrial Control Equipment SMISSLINE TP busbar system	
Rated Voltage	600 VAC
Rated Current	125 A
Rated Current (End Feed, left and right)	125 A left, 125 A right
Rated Current (Center)	250 A max. (double feed)
Rated Current (Center Feed)	250 A max. if used with two feeder blocks
Short Circuit Ratings ABB T_{max} XT2, XT3, XT4	50 kA, max. 480 VAC, 480 Y/277 V and 240 VAC or 35 kA, max. 600 VAC and 600 Y/347 V

Technical data UL508 Industrial Control Equipment (ZLS906, ZLS908, ZLS920, ZLS926, ZLS928)

	Busbar ZLS200	Feeder ZLS924	Feeder block ZLS95X	Combimodule ZLS840X, 842X	DIN Rail adapter ZLS97X	Terminals ZLS95XUL, 91XUL	Combi modul ZMS132X	Adapter moter strater ZMS93X
Maximum rated voltage	600 VAC	600 VAC	600 VAC	600 VAC	600 VAC	600 VAC	600 VAC	600 VAC
Maximum rated current	125 A	150 A	150 A	30 A	32 A, 63 A	32 A, 100 A, 150 A	32 A	32 A

Terminals for 125 A SMISSLINE TP System

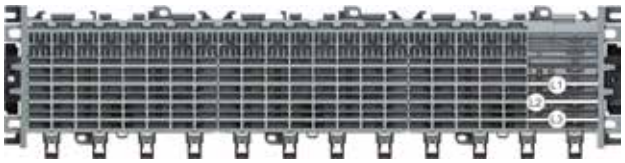
ZLS954UL – Terminal 150 A (Neutral)
ZLS959UL – Terminal (PE)
ZLS913UL – Terminal 63 A (Neutral)
ZLS918UL – Terminal 32 A (Neutral)
ZLS919UL – Terminal (PE)
ZLS929UL – Terminal (PE)

DIN Rail adapters for MCB SU200 and SUP200

	970UL, 971UL, 972UL or 973UL
Maximum nominal current	25 A, 45 A

SMISSLINE TP plug-in system

Starter pack Touch proof 3L – 125 A system

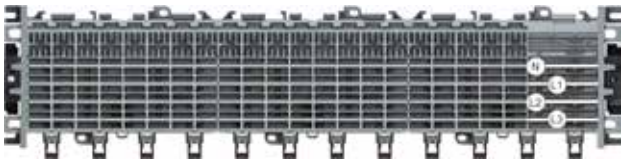


Starter Pack 3L: L1, L2, L3 inclusive socket end piece

Solutions available	Busbars length incl. Socket end piece	Busbars length	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	mm	mm	EAN	Type code	Order code		kg	pc.
18 PLE 3L	364	320	1426514	ZLS905E18-3L	2CCA183232R0001		0.530	1
20 PLE 3L	401	355	1413231	ZLS905E20-3L	2CCA183100R0001		0.637	1
22 PLE 3L	437	391	1413255	ZLS905E22-3L	2CCA183102R0001		0.693	1
24 PLE 3L	473	427	1413279	ZLS905E24-3L	2CCA183104R0001		0.749	1
26 PLE 3L	509	463	1413293	ZLS905E26-3L	2CCA183106R0001		0.813	1
28 PLE 3L	545	499	1413415	ZLS905E28-3L	2CCA183108R0001		0.848	1
30 PLE 3L	581	535	1413439	ZLS905E30-3L	2CCA183110R0001		0.933	1
32 PLE 3L	617	571	1413453	ZLS905E32-3L	2CCA183112R0001		0.981	1
34 PLE 3L	653	607	1413477	ZLS905E34-3L	2CCA183114R0001		1.044	1
36 PLE 3L	689	643	1413491	ZLS905E36-3L	2CCA183116R0001		1.100	1
38 PLE 3L	725	679	1413514	ZLS905E38-3L	2CCA183118R0001		1.156	1
40 PLE 3L	761	715	1413538	ZLS905E40-3L	2CCA183120R0001		1.212	1
42 PLE 3L	797	751	1413552	ZLS905E42-3L	2CCA183122R0001		1.276	1
44 PLE 3L	833	787	1413576	ZLS905E44-3L	2CCA183124R0001		1.332	1
46 PLE 3L	869	823	1413590	ZLS905E46-3L	2CCA183126R0001		1.388	1
48 PLE 3L	905	859	1413613	ZLS905E48-3L	2CCA183128R0001		1.444	1
50 PLE 3L	941	896	1413637	ZLS905E50-3L	2CCA183130R0001		1.508	1
52 PLE 3L	977	932	1413651	ZLS905E52-3L	2CCA183132R0001		1.564	1
54 PLE 3L	1013	968	1413675	ZLS905E54-3L	2CCA183134R0001		1.620	1
56 PLE 3L	1049	1004	1413699	ZLS905E56-3L	2CCA183136R0001		1.675	1
58 PLE 3L	1058	1040	1413712	ZLS905E58-3L	2CCA183138R0001		1.739	1
60 PLE 3L	1122	1076	1413736	ZLS905E60-3L	2CCA183140R0001		1.795	1
62 PLE 3L	1158	1112	1413750	ZLS905E62-3L	2CCA183142R0001		1.851	1
64 PLE 3L	1194	1148	1413774	ZLS905E64-3L	2CCA183144R0001		1.907	1
66 PLE 3L	1230	1184	1413798	ZLS905E66-3L	2CCA183146R0001		1.971	1
68 PLE 3L	1266	1220	1413811	ZLS905E68-3L	2CCA183148R0001		2.027	1
70 PLE 3L	1302	1256	1413835	ZLS905E70-3L	2CCA183150R0001		2.083	1
72 PLE 3L	1338	1292	1413859	ZLS905E72-3L	2CCA183152R0001		2.139	1
74 PLE 3L	1374	1328	1413873	ZLS905E74-3L	2CCA183154R0001		2.203	1
76 PLE 3L	1410	1364	1413897	ZLS905E76-3L	2CCA183156R0001		2.269	1
78 PLE 3L	1446	1400	1413910	ZLS905E78-3L	2CCA183158R0001		2.314	1
80 PLE 3L	1482	1436	1413934	ZLS905E80-3L	2CCA183160R0001		2.370	1

SMISSLINE TP plug-in system

Starter pack Touch proof 3LN – 125 A system

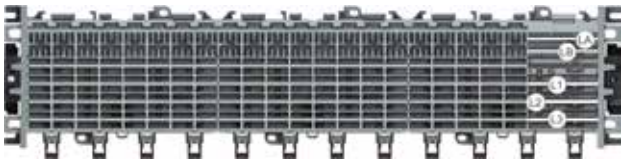


Starter Pack 3LN: L1, L2, L3, N inclusive socket end piece

Solutions available	Busbars length incl. Socket end piece	Busbars length	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	mm	mm	EAN	Type code	Order code		kg	pc.
18 PLE 3LN	364	320	1426521	ZLS905E18-3LN	2CCA183234R0001		0.615	1
20 PLE 3LN	401	355	1413248	ZLS905E20-3LN	2CCA183101R0001		0.724	1
22 PLE 3LN	437	391	1413262	ZLS905E22-3LN	2CCA183103R0001		0.789	1
24 PLE 3LN	473	427	1413286	ZLS905E24-3LN	2CCA183105R0001		0.800	1
26 PLE 3LN	509	463	1413408	ZLS905E26-3LN	2CCA183107R0001		0.926	1
28 PLE 3LN	545	499	1413422	ZLS905E28-3LN	2CCA183109R0001		0.970	1
30 PLE 3LN	581	535	1413446	ZLS905E30-3LN	2CCA183111R0001		1.046	1
32 PLE 3LN	617	571	1413460	ZLS905E32-3LN	2CCA183113R0001		1.120	1
34 PLE 3LN	653	607	1413484	ZLS905E34-3LN	2CCA183115R0001		1.193	1
36 PLE 3LN	689	643	1413507	ZLS905E36-3LN	2CCA183117R0001		1.2.57	1
38 PLE 3LN	725	679	1413521	ZLS905E38-3LN	2CCA183119R0001		1.322	1
40 PLE 3LN	761	715	1413545	ZLS905E40-3LN	2CCA183121R0001		1.387	1
42 PLE 3LN	797	751	1413569	ZLS905E42-3LN	2CCA183123R0001		1.459	1
44 PLE 3LN	833	787	1413583	ZLS905E44-3LN	2CCA183125R0001		1.524	1
46 PLE 3LN	869	823	1413606	ZLS905E46-3LN	2CCA183127R0001		1.589	1
48 PLE 3LN	905	859	1413620	ZLS905E48-3LN	2CCA183129R0001		1.653	1
50 PLE 3LN	941	896	1413644	ZLS905E50-3LN	2CCA183131R0001		1.726	1
52 PLE 3LN	977	932	1413668	ZLS905E52-3LN	2CCA183133R0001		1.791	1
54 PLE 3LN	1013	968	1413682	ZLS905E54-3LN	2CCA183135R0001		1.855	1
56 PLE 3LN	1049	1004	1413705	ZLS905E56-3LN	2CCA183137R0001		1.920	1
58 PLE 3LN	1058	1040	1413729	ZLS905E58-3LN	2CCA183139R0001		1.992	1
60 PLE 3LN	1122	1076	1413743	ZLS905E60-3LN	2CCA183141R0001		2.057	1
62 PLE 3LN	1158	1112	1413767	ZLS905E62-3LN	2CCA183143R0001		2.122	1
64 PLE 3LN	1194	1148	1413781	ZLS905E64-3LN	2CCA183145R0001		2.186	1
66 PLE 3LN	1230	1184	1413804	ZLS905E66-3LN	2CCA183147R0001		2.259	1
68 PLE 3LN	1266	1220	1413828	ZLS905E68-3LN	2CCA183149R0001		2.324	1
70 PLE 3LN	1302	1256	1413842	ZLS905E70-3LN	2CCA183151R0001		2.388	1
72 PLE 3LN	1338	1292	1413866	ZLS905E72-3LN	2CCA183153R0001		2.453	1
74 PLE 3LN	1374	1328	1413880	ZLS905E74-3LN	2CCA183155R0001		2.526	1
76 PLE 3LN	1410	1364	1413903	ZLS905E76-3LN	2CCA183157R0001		2.590	1
78 PLE 3LN	1446	1400	1413927	ZLS905E78-3LN	2CCA183159R0001		2.655	1
80 PLE 3LN	1482	1436	1413941	ZLS905E80-3LN	2CCA183161R0001		2.719	1

SMISSLINE TP plug-in system

Starter pack Touch proof 3L LA LB – 125 A system



Starter Pack 3LLALB: L1, L2, L3, LA, LB inclusive socket end piece

Solutions available	Busbars length incl. Socket end piece	Busbars length	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	mm	mm	EAN	Type code	Order code		kg	pc.
18 PLE 3L LA LB	364	320	1426538	ZLS905E18-3LLALB	2CCA183233R0001		0.586	1
20 PLE 3L LA LB	401	355	1416904	ZLS905E20-3LLALB	2CCA183162R0001		0.753	1
22 PLE 3L LA LB	437	391	1416911	ZLS905E22-3LLALB	2CCA183164R0001		0.821	1
24PLE 3L LA LB	473	427	1416928	ZLS905E24-3LLALB	2CCA183166R0001		0.835	1
26PLE 3L LA LB	509	463	1416935	ZLS905E26-3LLALB	2CCA183168R0001		0.964	1
28PLE 3L LA LB	545	499	1416942	ZLS905E28-3LLALB	2CCA183170R0001		1.011	1
30PLE 3L LA LB	581	535	1416959	ZLS905E30-3LLALB	2CCA183172R0001		1.107	1
32PLE 3L LA LB	617	571	1416966	ZLS905E32-3LLALB	2CCA183174R0001		1.167	1
34PLE 3L LA LB	653	607	1416973	ZLS905E34-3LLALB	2CCA183176R0001		1.242	1
36PLE 3L LA LB	689	643	1416980	ZLS905E36-3LLALB	2CCA183178R0001		1.310	1
38PLE 3L LA LB	725	679	1416997	ZLS905E38-3LLALB	2CCA183180R0001		1.377	1
40PLE 3L LA LB	761	715	1417000	ZLS905E40-3LLALB	2CCA183182R0001		1.445	1
42PLE 3L LA LB	797	751	1417017	ZLS905E42-3LLALB	2CCA183184R0001		1.520	1
44PLE 3L LA LB	833	787	1417024	ZLS905E44-3LLALB	2CCA183186R0001		1.588	1
46PLE 3L LA LB	869	823	1417031	ZLS905E46-3LLALB	2CCA183188R0001		1.656	1
48PLE 3L LA LB	905	859	1417048	ZLS905E48-3LLALB	2CCA183190R0001		1.723	1
50PLE 3L LA LB	941	896	1417055	ZLS905E50-3LLALB	2CCA183192R0001		1.799	1
52PLE 3L LA LB	977	932	1417062	ZLS905E52-3LLALB	2CCA183194R0001		1.866	1
54PLE 3L LA LB	1013	968	1417079	ZLS905E54-3LLALB	2CCA183196R0001		1.934	1
56PLE 3L LA LB	1049	1004	1417086	ZLS905E56-3LLALB	2CCA183198R0001		2.001	1
58PLE 3L LA LB	1058	1040	1417093	ZLS905E58-3LLALB	2CCA183200R0001		2.077	1
60PLE 3L LA LB	1122	1076	1417109	ZLS905E60-3LLALB	2CCA183202R0001		2.144	1
62PLE 3L LA LB	1158	1112	1417116	ZLS905E62-3LLALB	2CCA183204R0001		2.212	1
64PLE 3L LA LB	1194	1148	1417123	ZLS905E64-3LLALB	2CCA183206R0001		2.279	1
66PLE 3L LA LB	1230	1184	1417130	ZLS905E66-3LLALB	2CCA183208R0001		2.355	1
68PLE 3L LA LB	1266	1220	1417147	ZLS905E68-3LLALB	2CCA183210R0001		2.423	1
70 PLE 3L LA LB	1302	1256	1417154	ZLS905E70-3LLALB	2CCA183212R0001		2.490	1
72PLE 3L LA LB	1338	1292	1417161	ZLS905E72-3LLALB	2CCA183214R0001		2.558	1
74PLE 3L LA LB	1374	1328	1417178	ZLS905E74-3LLALB	2CCA183216R0001		2.633	1
76PLE 3L LA LB	1410	1364	1417185	ZLS905E76-3LLALB	2CCA183218R0001		2.701	1
78PLE 3L LA LB	1446	1400	1417192	ZLS905E78-3LLALB	2CCA183220R0001		2.768	1
80PLE 3L LA LB	1482	1436	1417208	ZLS905E80-3LLALB	2CCA183222R0001		2.836	1

SMISSLINE TP plug-in system

Starter pack Touch proof 3LN LA LB – 125 A system



Starter Pack 3LNLALB: L1, L2, L3, N, LA, LB inclusive socket end piece

Solutions available	Busbars length incl. Socket end piece mm	Busbars length mm	Bbn 761227 EAN	Order details Type code	Order code	Price 1 piece	Weight 1 piece kg	Pack unit pc.
18 PLE 3LN LA LB	364	320	1426545	ZLS905E18-3LNLALB	2CCA183235R0001		0.671	1
20 PLE 3LN LA LB	401	355	1417215	ZLS905E20-3LNLALB	2CCA183163R0001		0.841	1
22 PLE 3LN LA LB	437	391	1417222	ZLS905E22-3LNLALB	2CCA183165R0001		0.917	1
24PLE 3LN LA LB	473	427	1417239	ZLS905E24-3LNLALB	2CCA183167R0001		0.939	1
26PLE 3LN LA LB	509	463	1417246	ZLS905E26-3LNLALB	2CCA183169R0001		1.078	1
28PLE 3LN LA LB	545	499	1417253	ZLS905E28-3LNLALB	2CCA183171R0001		1.133	1
30PLE 3LN LA LB	581	535	1417260	ZLS905E30-3LNLALB	2CCA183173R0001		1.238	1
32PLE 3LN LA LB	617	571	1417277	ZLS905E32-3LNLALB	2CCA183175R0001		1.306	1
34PLE 3LN LA LB	653	607	1417284	ZLS905E34-3LNLALB	2CCA183177R0001		1.391	1
36PLE 3LN LA LB	689	643	1417291	ZLS905E36-3LNLALB	2CCA183179R0001		1.467	1
38PLE 3LN LA LB	725	679	1417307	ZLS905E38-3LNLALB	2CCA183181R0001		1.543	1
40PLE 3LN LA LB	761	715	1417314	ZLS905E40-3LNLALB	2CCA183183R0001		1.619	1
42PLE 3LN LA LB	797	751	1417321	ZLS905E42-3LNLALB	2CCA183185R0001		1.704	1
44PLE 3LN LA LB	833	787	1417338	ZLS905E44-3LNLALB	2CCA183187R0001		1.780	1
46PLE 3LN LA LB	869	823	1417345	ZLS905E46-3LNLALB	2CCA183189R0001		1.856	1
48PLE 3LN LA LB	905	859	1417352	ZLS905E48-3LNLALB	2CCA183191R0001		1.933	1
50PLE 3LN LA LB	941	896	1417369	ZLS905E50-3LNLALB	2CCA183193R0001		2.017	1
52PLE 3LN LA LB	977	932	1417376	ZLS905E52-3LNLALB	2CCA183195R0001		2.093	1
54PLE 3LN LA LB	1013	968	1417383	ZLS905E54-3LNLALB	2CCA183197R0001		2.169	1
56PLE 3LN LA LB	1049	1004	1417390	ZLS905E56-3LNLALB	2CCA183199R0001		2.246	1
58PLE 3LN LA LB	1058	1040	1417406	ZLS905E58-3LNLALB	2CCA183201R0001		2.330	1
60PLE 3LN LA LB	1122	1076	1417413	ZLS905E60-3LNLALB	2CCA183203R0001		2.406	1
62PLE 3LN LA LB	1158	1112	1417505	ZLS905E62-3LNLALB	2CCA183205R0001		2.482	1
64PLE 3LN LA LB	1194	1148	1419172	ZLS905E64-3LNLALB	2CCA183207R0001		2.559	1
66PLE 3LN LA LB	1230	1184	1417420	ZLS905E66-3LNLALB	2CCA183209R0001		2.643	1
68PLE 3LN LA LB	1266	1220	1417437	ZLS905E68-3LNLALB	2CCA183211R0001		2.719	1
70 PLE 3LN LA LB	1302	1256	1417444	ZLS905E70-3LNLALB	2CCA183213R0001		2.796	1
72PLE 3LN LA LB	1338	1292	1417451	ZLS905E72-3LNLALB	2CCA183215R0001		2.872	1
74PLE 3LN LA LB	1374	1328	1417468	ZLS905E74-3LNLALB	2CCA183217R0001		2.956	1
76PLE 3LN LA LB	1410	1364	1417475	ZLS905E76-3LNLALB	2CCA183219R0001		3.032	1
78PLE 3LN LA LB	1446	1400	1417482	ZLS905E78-3LNLALB	2CCA183221R0001		3.109	1
80PLE 3LN LA LB	1482	1436	1417499	ZLS905E80-3LNLALB	2CCA183223R0001		3.185	1

SMISSLINE TP plug-in system

Socket



ZLS908



ZLS906

Socket bases ZLS906, ZLS908

The SMISSLINE socket system is a totally new kind of assembly and connection technology for the construction of distributions. Besides the classic method of snapping the devices onto 35-mm mounting rails, the new family of devices can be directly attached to the socket bases with integrated busbars. The time-consuming process of connecting up the supply is thereby no longer needed. In addition, in the event of rearrangement or expansion, the replacement of devices in existing systems is made significantly easier.

The socket sections and the wide range of accessories make it possible to plan with the capability for expansion and to construct distribution systems of any desired size in a short period of time.

6- and 8-module sockets are installed either by screwing them onto any flat surface or by snapping them onto a 35 mm DIN mounting rail. Lateral movement or detachment of the sockets again is possible before final fixing.

In order to determine the required socket length, the space necessary for

- the devices required
- the incoming terminal block and
- any reserve spaces needed must be determined.

Snap mounting

Pull down the slide with a screwdriver until it latches (socket can be moved).
Press on front of slid:
Fixed position
(Sockets fixed)

The key features

- System of any desired length (even number of poles)
- Integrated busbars
- Simple device change
- Long-term planning and problem free extension possible
- Significant time savings during assembly and connection

Socket base

Description/ application	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
8-module socket Length 144 mm (includes base and cover)	1413965	ZLS908	2CCA183030R0001		0.092	10
6-module socket Length 108 mm (includes base and cover)	1413958	ZLS906	2CCA183035R0001		0.071	10

Busbars for the sockets and additional socket ZLS200

The busbars of size 10 x 3 mm can be loaded with currents up to 125 A. They are plated for perfect contact wiith the devices plug-in contacts. The maximum available busbar length is

SMISSLINE TP plug-in system

Busbars, Socket end piece – 125 A system



ZLS20x

1979 mm. The same busbar type is used, regardless whether it is fitted in the socket (L1, L2, L3, N) or in the additional socket (N, PE). The busbars are inserted in to the socket from the front.

Auxiliary busbars for the socket ZLS202

The 5 x 2 mm auxiliary busbars are intended for a common power supply of auxiliary switches and signal contacts. They are also plated and their max. delivery length is 1979 mm.
Like the main busbars, the auxiliary busbars are inserted in holders LA and LB from the front. Of course, only on auxiliary busbar can be fitted.

Busbars for the sockets

Description/ application	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
125 A busbar plated, 10 x 3 mm, for L1, L2, L3, N and PE – Delivery length 1979 mm	0015702	ZLS200	2CCF002772R0001		0.640	10
40 A auxiliary busbar plated, 5 x 2 mm, for LA und LB – Delivery length 1979 mm	0015719	ZLS202	2CCF002773R0001		0.240	10

Socket end piece ZLS920

To prevent displacement of sockets and busbars (particulary when installed vertically) end pieces can be fitted at the start and finish of each row of sockets. These simultaneously ensure electrically protected covering of the busbar end faces and mechanical fixing of the sockets oh the mounting rail.



ZLS920

Socket end piece

Description/ application	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
To prevent displacement of sockets and busbars	1415617	ZLS920	2CCA183017R0001		0.060	1

SMISSLINE TP plug-in system

Incoming terminal block and components – 125 A system



ZLS26x



ZLS25x



ZLS95x

Incoming terminal blocks ZLS260 to 262

Compact terminal block with the construction width of 18 mm for 2 poles. The maximum rated current is 63 A for L1, L2, L3N and 6 A for LA, LB.

Incoming terminal block 18 mm, 63 A 2,5 mm² to 25 mm² max. 1 wire

1 contact above 1 contact bottom

Version	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
L1, L3 63 A	0111572	ZLS260	2CCA205305R0001		0.090	1
L2, N 63 A	0111589	ZLS261	2CCA205306R0001		0.090	1
LA, LB 6 A	0111596	ZLS262	2CCA205307R0001		0.090	1

Incoming terminal component ZLS250-253; 954, 955

The incoming terminal component, with an installation width of 36 mm is available as a single-pole component for the line conductors L1, L2, L3 and as neutral. The terminals act directly on the busbars and thereby fix the incoming terminal component. The incoming terminal component, L1, L2, L3 and N can be combined to meet specific needs. A maximum cable cross-section of 95 mm² can be connected to the incoming terminal component.

Incoming terminal component 10 mm² to 95 mm² max. 1 wire

Version	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Feeder component L1	0505319	ZLS251	2CCV672501R0001		0.120	1
Feeder component L2	0505326	ZLS252	2CCV672502R0001		0.120	1
Feeder component L3	0505333	ZLS253	2CCV672503R0001		0.120	1
Feeder component N	0505340	ZLS250	2CCV672500R0001		0.120	1
Feeder component N additional socket	1424404	ZLS954	2CCV672508R0001		0.088	1
Feeder component PE additional socket	1487164	ZLS959	2CCA672510R0001		0.088	1
Feeder component N additional socket (2 holes)	1515348	ZLS954-1	2CCG001032R0001		0.088	1

SMISSLINE TP plug-in system

Incoming terminal block and components – 125 A system





General

The incoming terminal block is used to connect cables directly to the busbars. The terminals act directly on the busbars and therefore fix the incoming terminal block. Removable terminal tops permit the connection of continous conductrors (risers) white horizontal or vertical cable entry is also possible.
Instead of using the incoming terminal block, the power supply can also be realized via a device (e.g. residual current operated circuit breaker, miniature circuit breaker or switch disconnector).

Power supply left or right, maximum 125 A.





Power supply in centre, maximum 160 A.
A maximum of 125 A is permitted on either side. A total of 160 A shall not be exceeded.





Left Version ZLS924 --L

Right Version ZLS924 --R

Incoming terminal blocks ZLS924

A standard incoming terminal block whose cover provides protection against accidental contact. Construction height 50 mm. The base plate can be fitted with a maximum of 4 main terminals L1, L2, L3 and N for the busbars, and 2 auxiliary termiinals LA and LB for the auxiliary busbars.

SMISSLINE TP plug-in system

Incoming terminal block and components









Incoming terminal blocks 6 mm² to 50 mm² (2 × 25 mm²) + 2 × 10 mm² (LA, LB)

	Module	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
		EAN	Type code	Order code		kg	pc.
50 mm² (2×25 mm²) 3L left	4	1503086	ZLS924-3L	2CCF181816R0001		0.140	1
50 mm² (2×25 mm²) 3L+N left	4	1503093	ZLS924-3LN	2CCF181818R0001		0.168	1
50 mm² (2×25 mm²) 3L+N+LA+LB left	4	1503109	ZLS924-3LNAB	2CCF181820R0001		0.188	1
50 mm² (2×25 mm²) 3L right	4	1503116	ZLS924-3L-R	2CCF181817R0001		0. 140	1
50 mm² (2×25 mm²) 3L+N right	4	1503123	ZLS924-3LN-R	2CCF181819R0001		0.168	1
50 mm² (2×25 mm²) 3L+N+LA+LB right	4	1503130	ZLS924-3LNAB-R	2CCF181821R0001		0.188	1

Terminals for incoming block

Version	Module	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
		EAN	Type code	Order code		kg	pc.
Terminal L	–	1503147	ZLS936	2CCF181805R0001		0.028	1
Terminal LA LB	–	1503154	ZLS937	2CCF181807R0001		0.010	1

Cover for incoming terminal block

Version	Module	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
		EAN	Type code	Order code		kg	pc.
	4	1503161	ZLS939	2CCF181812R0001		0.026	1

SMISSLINE TP plug-in system

Terminals for additional socket – 125 A system



ZLS928

Additional socket

The additional socket can easily be fitted onto the socket base to accomodate the external N and/or PE busbars. This enables neutral connections to be made where single-pole miniature circuit breakers are used with unswitched neutral. Neutral terminals are clipped onto the additional socket and can be used as detachable neutral connections. One N busbar and/or one PE busbar can be fitted. Each socket base can be equipped with an additional socket. Because it contains an integrated 35 mm DIN-rail snap-on feature, the external N or PE busbars can be fitted anywhere in the distribution panel, even separatly from the system. The additional sockets can be covered to prevent accidental contact with live parts.



ZLS926

Additional socket for external N and PE busbars

Description/ application	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
8-module socket (suitable for 8-module socket)	1420444	ZLS928	2CCA183630R0001		0.034	10
6-module socket (suitable for 6-module socket)	1420437	ZLS926	2CCA183635R0001		0.026	10

Incoming terminals

Technical data IEC/EN 61439-6 and UL508

Terminals

	10 mm² IEC ZLS918, ZLS919	10 mm² UL ZLS918UL, ZLS919UL	35 mm² IEC ZLS913, ZLS916, ZLS929	35 mm² UL ZLS913UL, ZLS929UL	95 mm² IEC ZLS954, ZLS959	95 mm² UL ZLS954UL, ZLS959UL
General data						
Standards	IEC/EN 61439-6	UL 508 CSA C22.2 No. 14-13	IEC/EN 61439-6	UL 508 CSA C22.2 No. 14-13	IEC/EN 61439-6	UL 508 CSA C22.2 No. 14-13
Rated voltage Ue acc. IEC	690 VAC, 1000 VDC	–	690 VAC, 1000 VDC	–	690 VAC, 1000 VDC	–
Rated voltage acc. UL	–	600 VAC	–	600 VAC	–	600 VAC
Rated current In acc. IEC	32 A	–	63 A	–	200 A	–
Rated current acc. UL	–	32 A	–	63 A	–	150 A
Installation						
Terminal rigid IEC connections (solid/stranded)	Single: 1 … 10 mm² Multiple: 2 x 1.5 … 2.5 mm², with cables of same type and size	–	–	–	–	–
Terminal flexible IEC connections	Single: 0.7 … 10 mm² Multiple: 2 x 1.5 … 2.5 mm², with cables of same type and size	–	Single: 16 … 35 mm² Multiple: –	–	Single: 10 … 95 mm² Multiple: 2 x 10 … 25 mm², with cables of same type and size	–
Terminal UL connections	–	Single: 14 … 8 AWG Multiple: –	–	Single: 6 … 2 AWG Multiple: –	–	Single: 2 … 1/0 AWG Multiple: –
Torque	1.2 Nm	1.2 Nm	2.5 Nm	2.5 Nm	2.0 Nm	2.0 Nm
Stripping length:	12 mm	12 mm	15 mm	15 mm	21 mm	21 mm

SMISSLINE TP plug-in system

Terminals TP, additional socket (use for ZLS926/928 or ZLS926/928)



IEC N terminal



IEC PE terminal



d.c.terminals



Isolator

N terminals and PE terminals

Corresponding N terminals (blue) or PE terminals (yellow-green) are available for the power supply and the outgoing conduetors of the external N and PE busbars for cross sections. The terminals are fitted with label holders whitch can be used wiht the marking adapter or the self-adhesive marking label (Phoenix Contact type Clipline UC-TM):

Connection for the terminals

ZLS918, 919	0.75 mm² up to 10 mm² litz wire with ferrule 1 mm² up to 10 mm² strand 2 x 1.5 mm² or 2 x 2.5 mm² allowed, all other combinatins it is only allowed with one wire
ZLS913, 929	16 mm² up to 35 mm² wire with ferrule, max. 1 wire
ZLS954, 959	50 mm² up to 95 mm² wire with ferrule, max. 1 wire

N terminal for additional socket light blue, for external busbars

Description/ application	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
N 10 mm²	1487027	ZLS918	2CCA183440R0001		0.012	Set à 10
N 35 mm²	1421304	ZLS913	2CCA183470R0001		0.030	10
N 95 mm²	1424404	ZLS954	2CCV672508R0001		0.100	1

PE terminal for additional socket yellow-green, for external busbars

Description/ application	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
PE 10 mm²	1487041	ZLS919	2CCA183441R0001		0.012	Set à 10
PE 35 mm²	1486921	ZLS929	2CCA183387R0001		0.030	10
PE 95 mm²	1487164	ZLS959	2CCA672510R0001		0.100	1

Red/orange terminals for additional socket

Description/ application	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
10 mm²	1487089	ZLS918/Red	2CCA183443R0001		0.012	10
10 mm²	1487102	ZLS919/Orange	2CCA183444R0001		0.012	10
35 mm²	1421342	ZLS913/Red	2CCA183465R0001		0.030	10
35 mm²	1421366	ZLS916/Orange	2CCA183466R0001		0.030	10

Insulator block

The dark grey insulator block isolates the interrupted bus bar ends from one another and simultaneously marks the disconnection point externally.

Description/ application	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	1487065	ZLS927	2CCA183442R0001		0.006	10

SMISSLINE TP plug-in system

Terminal range UL

Connection for the terminals

ZLS918UL, 919UL 0.75 mm² up to 10 mm² litz
wire with ferrule 1 mm² up to 10 mm² strand 2x1.5 mm² or 2x2.5 mm² allowed, all other combinatins it is only allowed with one wire

ZLS913UL, 929UL 16 mm² up to 35 mm² wire with ferrule, max. 1 wire

ZLS954UL, 959UL 50 mm² up to 95 mm² wire with ferrule, max. 1 wire

Terminal range UL for additional socket or the 125A system (use on ZLS926/928).
The 250A additional (ZLSP926 and ZLSP928) socket has no UL approbation.
The use for this terminals is only for the 125A system.



UL N terminal

N terminal for additional socket light grey, for external busbars

Description/ application	Bbn 761227	Order details		Module	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
N 10 mm² max. 8AWG	1493301	ZLS918UL	2CCA183446R0001	0.5	0.011	1
N 35 mm² max. 2AWG	1486945	ZLS913UL	2CCA183398R0001	1	0.030	1
N 95 mm² max. 1/0AWG	1487188	ZLS954UL	2CCA672511R0001	2	0.088	1



UL PE terminal

PE terminal for additional socket grey-green, for external busbars

Description/ application	Bbn 761227	Order details		Module	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
PE 10 mm² max. 8AWG	1487140	ZLS919UL	2CCA183447R0001	0.5	0.011	1
PE 35 mm² max. 2AWG	1486969	ZLS929UL	2CCA183399R0001	1	0.030	1
PE 95 mm² max. 1/0AWG	1487201	ZLS959UL	2CCA672512R0001	2	0.088	1

Insulator block

The dark grey insulator block isolates the interrupted bus bar ends from one another and simultaneously marks the disconnection point externally.



Isolator

Description/ application	Bbn 761227	Order details		Module	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
dark gray, to isolate the N bus bar on the additional socket	1487065	ZLS927	2CCA183442R0001	0.5	0.009	1

SMISSLINE TP plug-in system

Socket accessories



Dummy housing



Isolator





Cover

Intermediate piece ZLS725

The light grey intermediate piece matches the device profile and fills empty module spaces. The busbars are safely covered, so that they cannot be touched and at the same time the corresponding openings in the cover are closed up.

Intermediate piece

Description/ application	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
light grey, fills shock-proof empty module spaces 18 mm – bag containing 5 items	0100989	ZLS725	2CCS500900R0181		0.100	1
Compensation piece to 18 mm for NT 9 mm – bag containing 5 items	0104710	ZLS728	2CCS400900R0101		0.070	1

Busbar insulator ZLS938

The dark grey busbar insulator electrically isolates the separated busbar ends from each other (e.g. when using several RCD protected groups) and also identifies the isolation point from outside. It conforms with the device profile and it requires 1 module space.

Busbar insulator

dark grey, for isolation and spacing of separate busbar sections, 18 mm	1418205	ZLS938	2CCA205611R0001		0.001	1

Busbar cover ZLS100

If component modules or spare modules are not requiered, the busbar cover ensures electrically protected covering of the main and auxiliary busbars. The cover (4 modules) can be cut anywhere. The openings allow voltage measurements on the busbars without removing the cover.

Busbar cover

electrically protected covering of main and auxiliary busbars. The 4 modules cover can be divided. Suitable to accept extension adapter ZLS 101 4 x 18 mm – bag containing 5 items	0015603	ZLS100	2CCF002762R0001		0.095	1

Extension adapter ZLS101

The extension adapter, single or several side by side, can be plugged into the busbar cover via the built-in holding device. This enables conventional DIN devices with 45 mm cap size to be snapped onto the SMISSLINE socket. By plugging in several extension adapters one on top of the other, heights can be adjusted in multiples of 7 mm

Add-on adapter

18 mm wide, can be plugged on busbar cover ZLS100. To mount conventional DIN devices with 45 m cap size. – bag containing 10 items	0015610	ZLS101	2CCF002763R0001		0.002	10

SMISSLINE TP plug-in system

Combi module 32 A (IN), 6 A (IA, IB)
MS116/132 + AF contactor



Combi module



Combi module push in

Combi module for MS116/MS132 and AF contactor

Description/ application	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Combi module L1,L2,L3 top feed	1414641	ZMS132-3L	2CCA182500R0001		0.095	1
Combi module L1,L2,L3 top feed	1414634	ZMS132-3LA	2CCA182502R0001		0.098	1
Combi module L1,L2,L3 top feed	1414627	ZMS132-3LB	2CCA182504R0001		0.098	1
Combi module L1,L2,L3 top feed	1414610	ZMS132-3LAB	2CCA182506R0001		0.102	1
Combi module without plug-in contacts	1414603	ZMS137	2CCA182508R0001		0.075	1
Connection pin to mont 2 combi moduls together	1414801	E210-SPV	2CCC703715R0001		0.010	Set à 30
Intermediate piece 9 mm	1414412	ZMS935	2CCA182616R0001		0.006	1
Adapter MS116/132 L123L wire bottom feed	1503208	ZMS132-3LWB	2CCF182543R0001		0.105	1
Combi module for MS116/MS132 and AF contactors for push in terminals						
Adapter MS116/132 L123 wire top feed For push terminals	1503178	ZMS132-3L-PI	2CCF182540R0001		0.105	1
Adapter MS116/132 L123LB wire top feed For push terminals	1503185	ZMS132-3LB-PI	2CCF182541R0001		0.105	1
Adapter MS116/132 L123LAB wire top feed For push terminals	1503192	ZMS132-3LAB-PI	2CCF182542R0001		0.105	1

The 9 mm wide additional housing is need to use when an unequal number (1, 3, 5, ...) of combi modules or adapter are plugged on the socket. This is needed to fill the space into a full module (18 mm).
The 9 mm wide additional housing can be also use when on one side of the manual motor starter an auxiliary contact is mounted.
The order codes of manual motor starter and the contactors auf in the ABB catalogue DOC 1SBC100155C0202 or in the local ABB catalogue.

SMISSLINE TP plug-in system

Adapter for manual motor starter





Top feed Bottom feed

Adapter for manual motor starter MS116 and MS132

Description/ application	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Adapter MS116/132 L123 wire bottom feed	1414597	ZMS930	2CCA182520R0001		0.030	1
Adapter MS116/132 L123LALB wire bottom feed	1414580	ZMS931	2CCA182522R0001		0.062	1
Adapter MS116/132 L123 wire top feed	1414573	ZMS932	2CCA182524R0001		0.030	1
Adapter MS116/132 L123LALB wire top feed	1414566	ZMS933	2CCA182526R0001		0.062	1
Adapter MS116/132 empty	1414559	ZMS934	2CCA182512R0001		0.034	1
Intermediate piece 9 mm	1414412	ZMS935	2CCA182616R0001		0.006	1
Adapter MS116/132 L123LA wire bottom feed	1424619	ZMS936	2CCA182521R0001		0.058	1
Adapter MS116/132 L123LA wire top feed	1424626	ZMS937	2CCA182525R0001		0.058	1
Adapter for MS116/MS132 for push in terminals						
Adapter MS116/132 L123 bottom for push in terminals	1503215	ZMS930-PI	2CCF182550R0001		0.058	1
Adapter MS116/132 L123 top for push in terminals	1503208	ZMS932-PI	2CCF182551R0001		0.058	1

The 9 mm wide additional housing is need to use when an unequal number (1, 3, 5, …) of combi modules or adapter are plugged on the socket. This is needed to fill the space into a full module (18 mm).
The 9 mm wide additional housing can be also use when on one side of the manual motor starter an auxiliary contact is mounted.
The order codes of manual motor starter and the contactors auf in the ABB catalogue DOC 1SBC100155C0202 or in the local ABB catalogue.

SMISSLINE TP plug-in system

Locking device



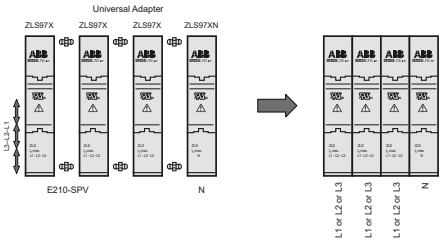
SA

Locking device for S400, F402, F404, FS401, FS403

Designation	Bbn 401223	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Padlock adapter 3 mm – Bag containing 10 items	3587605	SA 1	GJF1101903R0001		0.023	1
Padlock set. Locking devices with 2 keys	3587704	SA 2	GJF1101903R0002		0.020	1

SMISSLINE TP plug-in system

DIN-rail adapters 32 A and 63 A



Multipole universal adapter can plugged together with single adapters and the connection piece E210SPV.



DIN adapter 32A



DIN adapter 63A



Example DIN adapter



UI489 adapter

32 A and 63 A DIN-rail adapters

Adapter 32A

Designation	Module	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
		EAN	Type code	Order code		kg	pc.
L1/L2/L3 wire top	1	144 4563	ZLS970	2CCA180551R0001		0.020	1
L1/L2/L3 wire bottom ZLS971	1	144 4570	ZLS971	2CCA180552R0001		0.020	1
N wire top ZLS970N	1	144 4587	ZLS970N	2CCA180553R0001		0.020	1
N wire bottom ZLS971N	1	144 4570	ZLS971N	2CCA180554R0001		0.020	1

Adapter 63A

L1/L2/L3 wire top ZLS972	1	144 4709	ZLS972	2CCA180555R0001		0.024	1
L1/L2/L3 wire bottom ZLS973	1	144 4716	ZLS973	2CCA180556R0001		0.024	1
N wire top ZLS972N	1	144 4808	ZLS972N	2CCA180557R0001		0.024	1
N wire bottom ZLS973N	1	144 4730	ZLS973N	2CCA180558R0001		0.024	1

Adapter 32A with 300mm wire

L1/L2/L3 wire top ZLS970	1	144 4747	ZLS970300	2CCA180559R0001		0.026	1
L1/L2/L3 wire bottom ZLS971	1	144 4754	ZLS971300	2CCA180560R0001		0.026	1
N wire top ZLS970N	1	144 4761	ZLS970N300	2CCA180561R0001		0.026	1
N wire bottom ZLS971N	1	144 4778	ZLS971N300	2CCA180562R0001		0.026	1

Adapter 63A with 300mm wire

L1/L2/L3 Litze o ZLS972	1	144 4785	ZLS972300	2CCA180563R0001		0.037	1
L1/L2/L3 Litze u ZLS973	1	144 4792	ZLS973300	2CCA180564R0001		0.037	1
N wire top ZLS972N	1	144 4808	ZLS972N300	2CCA180565R0001		0.037	1
N wire bottom ZLS973N	1	144 4815	ZLS973N300	2CCA180566R0001		0.037	1

Adapter 25A UL489, adapter can be only used together with ABB Pro M MCB S200 UL489

L1/L2/L3 Litze o. ZLS970 UL	1	144 4822	ZLS970UL	2CCA337020R0001		0.021	1
L1/L2/L3 Litze u. ZLS971 UL	1	144 4839	ZLS971UL	2CCA337021R0001		0.021	1

Adapter 45A UL489, adapter can be only used together with ABB Pro M MCB S200 UL489

L1/L2/L3 Litze o. ZLS972 UL	1	144 4860	ZLS972UL	2CCA337024R0001		0.025	1
L1/L2/L3 Litze u. ZLS973 UL	1	144 4877	ZLS973UL	2CCA337025R0001		0.025	1

Dummy housing

	1	144 4556	ZLS964	2CCA180550R0001		0.011	1

Connector for multi- pole adapter

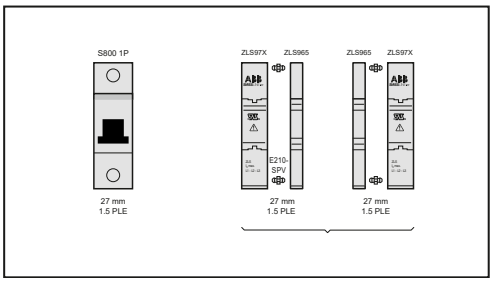
Bag with 30 pcs. 10		1414801	E210-SPV	2CCC703715R0001		0.050	Set of 30 pcs.

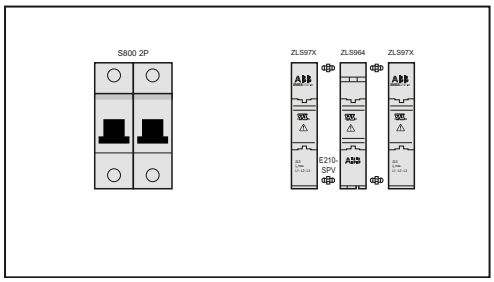
SMISSLINE TP plug-in system

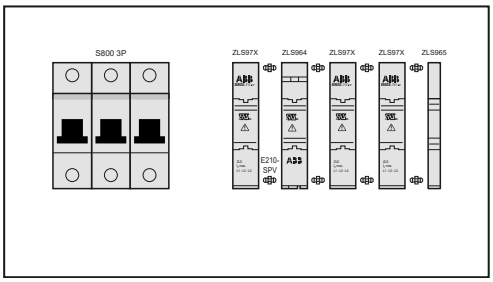
DIN-rail adapters - 27mm wide Solution for S800

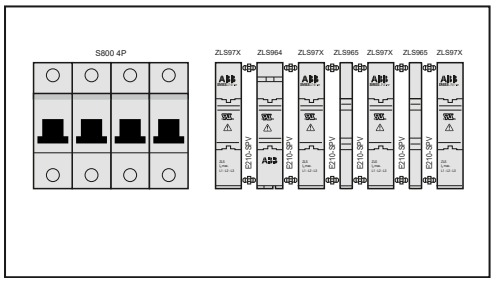
Simple mounting S800 MCB on SMISSLINE TP system with 27mm width DIN-rail adapter. Assembly to plug-in socket system with DIN-rail adapter and S800. Maximum rated current of outgoing circuits (Inc) max. 50A for S800 with ZLS972X, ZLS973X.













9mm dummy housing



Description	Bbn 761227	Order details		Module	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
9mm width	1501440	ZLS965	2CCA180545R1001	0.5	0.005	Set of 5

SMISSLINE TP plug-in system

Busbars 40 A and 125 A

40 A and 125 A busbars / selection table for sockets

Bbn 761227 EAN	Order details busbar 125 A Type code	Order code	Price 1 piece	ZL S908	ZL S906	Mod.	Length incl. end piece	Busbar length mm	Bbn 761227 EAN	Order details busbar 40 A Type code	Order code	Price 1 piece
0016778	ZLS201E6	2CCF800158R0001		–	1	6	148	103	007966	ZLS203E6	2CCF800218R0001	
0016983	ZLS201E8	2CCF800159R0001		1	–	8	186	139	008178	ZLS203E8	2CCF800219R0001	
0016211	ZLS201E12	2CCF800160R0001		–	2	12	256	211	007409	ZLS203E12	2CCF800220R0001	
0016310	ZLS201E14	2CCF800161R0001		1	1	14	292	247	007508	ZLS203E14	2CCF800221R0001	
0016334	ZLS201E16	2CCF800162R0001		2	–	16	328	283	007522	ZLS203E16	2CCF800222R0001	
0016358	ZLS201E18	2CCF800163R0001		–	3	18	364	319	007546	ZLS203E18	2CCF800223R0001	
0016372	ZLS201E20	2CCF800164R0001		1	2	20	401	355	007560	ZLS203E20	2CCF800224R0001	
0016396	ZLS201E22	2CCF800165R0001		2	1	22	437	391	007584	ZLS203E22	2CCF800225R0001	
0016419	ZLS201E24	2CCF800166R0001		3	–	24	473	427	007607	ZLS203E24	2CCF800226R0001	
0016433	ZLS201E26	2CCF800167R0001		1	3	26	509	463	007621	ZLS203E26	2CCF800227R0001	
0016457	ZLS201E28	2CCF800168R0001		2	2	28	545	499	007645	ZLS203E28	2CCF800228R0001	
0016471	ZLS201E30	2CCF800169R0001		3	1	30	581	535	007669	ZLS203E30	2CCF800229R0001	
0016495	ZLS201E32	2CCF800170R0001		4	–	32	617	571	007683	ZLS203E32	2CCF800230R0001	
0016518	ZLS201E34	2CCF800171R0001		2	3	34	653	607	007706	ZLS203E34	2CCF800231R0001	
0016532	ZLS201E36	2CCF800172R0001		3	2	36	689	643	007720	ZLS203E36	2CCF800232R0001	
0016556	ZLS201E38	2CCF800173R0001		4	1	38	725	679	007744	ZLS203E38	2CCF800233R0001	
0016570	ZLS201E40	2CCF800174R0001		5	–	40	761	715	007768	ZLS203E40	2CCF800234R0001	
0016594	ZLS201E42	2CCF800175R0001		3	3	42	797	751	007782	ZLS203E42	2CCF800235R0001	
0016617	ZLS201E44	2CCF800176R0001		4	2	44	833	787	007805	ZLS203E44	2CCF800236R0001	
0016631	ZLS201E46	2CCF800177R0001		5	1	46	869	823	007829	ZLS203E46	2CCF800237R0001	
0016655	ZLS201E48	2CCF800178R0001		6	–	48	905	859	007843	ZLS203E48	2CCF800238R0001	
0016679	ZLS201E50	2CCF800179R0001		4	3	50	941	895	007867	ZLS203E50	2CCF800239R0001	
0016693	ZLS201E52	2CCF800180R0001		5	2	52	977	932	007881	ZLS203E52	2CCF800240R0001	
0016716	ZLS201E54	2CCF800181R0001		6	1	54	1013	968	007904	ZLS203E54	2CCF800241R0001	
0016730	ZLS201E56	2CCF800182R0001		7	–	56	1049	1004	007928	ZLS203E56	2CCF800242R0001	
0016754	ZLS201E58	2CCF800183R0001		5	3	58	1085	1040	007942	ZLS203E58	2CCF800243R0001	
0016785	ZLS201E60	2CCF800184R0001		6	2	60	1122	1076	007973	ZLS203E60	2CCF800244R0001	
0016808	ZLS201E62	2CCF800185R0001		7	1	62	1158	1112	007997	ZLS203E62	2CCF800245R0001	
0016822	ZLS201E64	2CCF800186R0001		8	–	64	1194	1148	008017	ZLS203E64	2CCF800246R0001	
0016846	ZLS201E66	2CCF800187R0001		6	3	66	1230	1184	008031	ZLS203E66	2CCF800247R0001	
0016860	ZLS201E68	2CCF800188R0001		7	2	68	1266	1220	008055	ZLS203E68	2CCF800248R0001	
0016884	ZLS201E70	2CCF800189R0001		8	1	70	1302	1256	008079	ZLS203E70	2CCF800249R0001	
0016907	ZLS201E72	2CCF800190R0001		9	–	72	1338	1292	008093	ZLS203E72	2CCF800250R0001	
0016921	ZLS201E74	2CCF800191R0001		7	3	74	1374	1328	008116	ZLS203E74	2CCF800251R0001	
0016945	ZLS201E76	2CCF800192R0001		8	2	76	1410	1364	008130	ZLS203E76	2CCF800252R0001	
0016969	ZLS201E78	2CCF800193R0001		9	1	78	1446	1400	008154	ZLS203E78	2CCF800253R0001	
0016990	ZLS201E80	2CCF800194R0001		10	–	80	1482	1436	008185	ZLS203E80	2CCF800254R0001	
0017010	ZLS201E82	2CCF800195R0001		8	3	82	1518	1472	008208	ZLS203E82	2CCF800255R0001	
0017034	ZLS201E84	2CCF800196R0001		9	2	84	1554	1508	008222	ZLS203E84	2CCF800256R0001	
0017058	ZLS201E86	2CCF800197R0001		10	1	86	1590	1544	008246	ZLS203E86	2CCF800257R0001	
0017072	ZLS201E88	2CCF800198R0001		11	–	88	1626	1580	008260	ZLS203E88	2CCF800258R0001	
0017096	ZLS201E90	2CCF800199R0001		9	3	90	1662	1616	008284	ZLS203E90	2CCF800259R0001	
0017119	ZLS201E92	2CCF800200R0001		10	2	92	1698	1652	008307	ZLS203E92	2CCF800260R0001	
0017133	ZLS201E94	2CCF800201R0001		11	1	94	1734	1688	008321	ZLS203E94	2CCF800261R0001	
0017157	ZLS201E96	2CCF800202R0001		12	–	96	1770	1724	008345	ZLS203E96	2CCF800262R0001	
0017171	ZLS201E98	2CCF800203R0001		10	3	98	1806	1760	008369	ZLS203E98	2CCF800263R0001	
0016006	ZLS201E100	2CCF800204R0001		11	2	100	1843	1796	007195	ZLS203E100	2CCF800264R0001	
0016020	ZLS201E102	2CCF800205R0001		12	1	102	1879	1832	007218	ZLS203E102	2CCF800265R0001	
0016044	ZLS201E104	2CCF800206R0001		13	–	104	1915	1868	007232	ZLS203E104	2CCF800266R0001	
0016068	ZLS201E106	2CCF800207R0001		11	3	106	1951	1904	007256	ZLS203E106	2CCF800267R0001	
0016082	ZLS201E108	2CCF800208R0001		12	2	108	1987	1940	007270	ZLS203E108	2CCF800268R0001	

Planning for the incorporation of feeder block and spare places should be taken into account.
The total lengths given above were calculated taking socket spacings and tolerances into account.
For this reason, the indicated busbar length is not necessarily a multiple of 18 mm (1 Module).

SMISSLINE TP plug-in system

Technical data according to IEC/EN 61439-6

Power Bar System 250 A

Busbar system touch proof:
Use only for wall mounted application (horizontal or vertical). When installed correctly the requirements of EN/IEC 61439-2 are met.

Number of poles	30 to 110 3p+N / 2 additional bars PE+N
Rated operational voltage (U_e)	690 VAC, 1000 VDC (400 V for LA, LB busbars)
Rated insulation voltage (U_i) Main circuit	690 VAC, 440 VDC
Rated insulation voltage (U_i) Auxilary circuit	415 VAC
IP Code	IP20B
Mounting position	horizontal or vertical
Overvoltage category	IV
Pollution degree	3 (690 V a.c.) 2 (1000 V d.c.)
Rated impulse voltage (U_{imp})	8 kV mainbusbars; 6 KV auxillary busbars
Rated current of the assembly (I_nA)	Side feed: 250 A, Middle feed 400 A, Auxiliary busbars: 40 A
Rated current of a circuit (I_{nc})	Main circuit: Max. 100 A
Rated current of Auxiliary circuit	40 A
Rated short-time withstand current (I_{cw})	15 kA/100 ms Main circuit, 4 kA/50 ms Auxiliary circuit
Rated peak withstand current Main circuit (I_{pk})	30 kA
Rated peak withstand current Auxilary circuit (I_{pk})	6 kA
Rated frequency (f)	50/60 Hz
Rated conditional short-circuit current (I_{cc})	see table below
Ambient air temperature	max. 60°C
Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30	1 cycle with 55 °C/90…96 % and 25 °C/95…100 %
Size of CU bars 3P+N+PE	3×25 mm (75 mm²)
Size of CU auxiliary bars La Lb	2×5 mm (10 mm²)
Resistance and reactance values Busbar ZLSP1250	R 0.325mΩ/m X 0.295mΩ/m

Rated Voltage (U_e)	**Rated conditional short-circuit current (I_{cc})**	**Incoming current of main busbars (L1, L2, L3, N)**	**Short circuit protection device (SCPD)**	
			Fuse	**MCCB**
415 V	100 kA	250 A	NH2 gG 690V/250A*	ABB T_{max} XT Serie up to 250A*
690 V	25 kA	250 A	NH2 gG 690V/250A	ABB T_{max} XT Serie up to 250A*

		Inocming current of auxiliary busbars (La, Lb)		
	25 kA	40 A	NH00 gG 415 V/40 A	ABB Type S800 (240/415 VAC)

* For 400 A Incoming for upstream protection are two fuses or XT breaker necessary or two XT circuit breaker

SMISSLINE TP plug-in system

Technical data data UL508; Approvals for US and CA: cULus
Busbar system 250 A

SMISSLINE TP system for UL 508 – Industrial Control Equipment, CSA C22.2 No. 14 – Industrial Control Equipment UL File E222110

Rated Voltage	600 VAC
Rated Current	250 A left or right
Short Circuit Ratings ABB T_{max} XT2, XT3, XT4	50 kA, max. 480 VAC, 480 Y/277 V and 240 VAC or 35 kA, max. 600 VAC and 600 Y/347 V

Technical data UL508 Industrial Control Equipment (ZLSP906, ZLSP908,ZLSP920)

	Busbar ZLSP200	Feeder ZLSP934	Feeder block ZLS95X	Combimodule ZLS840X, 842X	DIN Rail adapter ZLS97X	Terminals ZLS95XUL, 91XUL	Combi modul ZMS132X	Adapter moter strater ZMS93X
Maximum rated voltage	600 VAC	600 VAC	600 VAC	600 VAC	600 VAC	600 VAC	600 VAC	600 VAC
Maximum rated current	250 A	250 A	150 A	30 A	32 A, 63 A	32 A, 100 A, 150 A	32 A	32 A

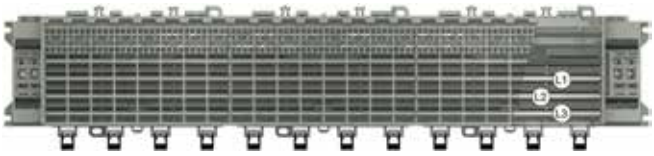
DIN rail adapters for MCB SU200 and SUP200

	970UL, 971UL, 972UL or 973UL
Maximum nominal current	25 A, 45 A

SMISSLINE TP plug-in system

Starter pack Touch proof 3L

Power Bar System 250 A



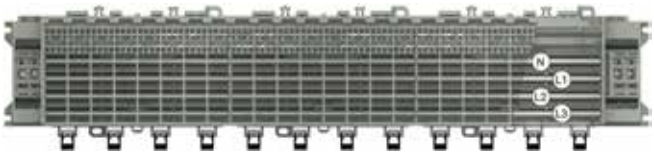
Starter pack Touch proof 3L Busbar system 250 A

Solutions available	Busbars length incl. Socket end piece mm	Type name	ABB IT number	EAN number 761227	Pack unit	Weight 1 piece kg
30 modules 3L	607	ZLSP950E30-3L	2CCF212200A0001	1488246	1	1,755
32 modules 3L	643	ZLSP950E32-3L	2CCF212201A0001	1488260	1	1,863
34 modules 3L	679	ZLSP950E34-3L	2CCF212202A0001	1488284	1	1,981
36 modules 3L	715	ZLSP950E36-3L	2CCF212203A0001	1488307	1	2,088
38 modules 3L	751	ZLSP950E38-3L	2CCF212204A0001	1488321	1	2,195
40 modules 3L	787	ZLSP950E40-3L	2CCF212205A0001	1488345	1	2,303
42 modules 3L	823	ZLSP950E42-3L	2CCF212206A0001	1488369	1	2,421
44 modules 3L	859	ZLSP950E44-3L	2CCF212207A0001	1488383	1	2,528
46 modules 3L	895	ZLSP950E46-3L	2CCF212208A0001	1488406	1	2,635
48 modules 3L	931	ZLSP950E48-3L	2CCF212209A0001	1488420	1	2,742
50 modules 3L	967	ZLSP950E50-3L	2CCF212210A0001	1488444	1	2,861
52 modules 3L	1003	ZLSP950E52-3L	2CCF212211A0001	1488468	1	2,968
54 modules 3L	1039	ZLSP950E54-3L	2CCF212212A0001	1488482	1	3,075
56 modules 3L	1075	ZLSP950E56-3L	2CCF212213A0001	1488505	1	3,182
58 modules 3L	1111	ZLSP950E58-3L	2CCF212214A0001	1488529	1	3,301
60 modules 3L	1147	ZLSP950E60-3L	2CCF212215A0001	1488543	1	3,408
62 modules 3L	1183	ZLSP950E62-3L	2CCF212216A0001	1488567	1	3,515
64 modules 3L	1219	ZLSP950E64-3L	2CCF212217A0001	1488581	1	3,622
66 modules 3L	1255	ZLSP950E66-3L	2CCF212218A0001	1488604	1	3,741
68 modules 3L	1291	ZLSP950E68-3L	2CCF212219A0001	1488628	1	3,848
70 modules 3L	1327	ZLSP950E70-3L	2CCF212220A0001	1488642	1	3,955
72 modules 3L	1363	ZLSP950E72-3L	2CCF212221A0001	1488666	1	4,062
74 modules 3L	1399	ZLSP950E74-3L	2CCF212222A0001	1488680	1	4,18
76 modules 3L	1435	ZLSP950E76-3L	2CCF212223A0001	1488703	1	4,288
78 modules 3L	1471	ZLSP950E78-3L	2CCF212224A0001	1488727	1	4,395
80 modules 3L	1507	ZLSP950E80-3L	2CCF212225A0001	1488741	1	4,502
82 modules 3L	1543	ZLSP950E82-3L	2CCF212226A0001	1488765	1	4,62
84 modules 3L	1579	ZLSP950E84-3L	2CCF212227A0001	1488789	1	4,728
86 modules 3L	1615	ZLSP950E86-3L	2CCF212228A0001	1488802	1	4,835
88 modules 3L	1651	ZLSP950E88-3L	2CCF212229A0001	1488826	1	4,942
90 modules 3L	1687	ZLSP950E90-3L	2CCF212230A0001	1488840	1	5,06
92 modules 3L	1723	ZLSP950E92-3L	2CCF212231A0001	1488864	1	5,167
94 modules 3L	1759	ZLSP950E94-3L	2CCF212232A0001	1488888	1	5,275
96 modules 3L	1795	ZLSP950E96-3L	2CCF212233A0001	1488901	1	5,382
98 modules 3L	1831	ZLSP950E98-3L	2CCF212234A0001	1488925	1	5,5
100 modules 3L	1867	ZLSP950E100-3L	2CCF212235A0001	1488949	1	5,607
102 modules 3L	1903	ZLSP950E102-3L	2CCF212236A0001	1488963	1	5,715
104 modules 3L	1939	ZLSP950E104-3L	2CCF212237A0001	1488987	1	5,822
106 modules 3L	1975	ZLSP950E106-3L	2CCF212238A0001	1489007	1	5,94
108 modules 3L	2011	ZLSP950E108-3L	2CCF212239A0001	1489021	1	6,047
110 modules 3L	2047	ZLSP950E110-3L	2CCF212240A0001	1489045	1	6,121

SMISSLINE TP plug-in system

Starter pack Touch proof 3LN

Power Bar System 250 A



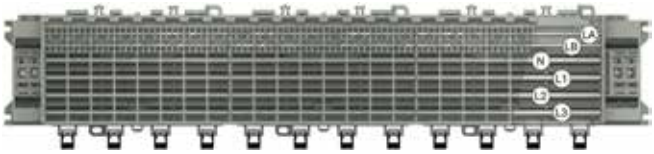
Starter pack Touch proof 3LN Busbar system 250 A

Solutions available	Busbars length incl. Socket end piece mm	Type name	ABB IT number	EAN number 761 227	Pack unit	Weight 1 piece kg
30 modules 3LN	607	ZLSP950E30-3LN	2CCF212300A0001	1489069	1	2,122
32 modules 3LN	643	ZLSP950E32-3LN	2CCF212301A0001	1489083	1	2,253
34 modules 3LN	679	ZLSP950E34-3LN	2CCF212302A0001	1489106	1	2,396
36 modules 3LN	715	ZLSP950E36-3LN	2CCF212303A0001	1489120	1	2,527
38 modules 3LN	751	ZLSP950E38-3LN	2CCF212304A0001	1489144	1	2,659
40 modules 3LN	787	ZLSP950E40-3LN	2CCF212305A0001	1489168	1	2,791
42 modules 3LN	823	ZLSP950E42-3LN	2CCF212306A0001	1489182	1	2,933
44 modules 3LN	859	ZLSP950E44-3LN	2CCF212307A0001	1489205	1	3,065
46 modules 3LN	895	ZLSP950E46-3LN	2CCF212308A0001	1489229	1	3,197
48 modules 3LN	931	ZLSP950E48-3LN	2CCF212309A0001	1489243	1	3,328
50 modules 3LN	967	ZLSP950E50-3LN	2CCF212310A0001	1489267	1	3,471
52 modules 3LN	1003	ZLSP950E52-3LN	2CCF212311A0001	1489281	1	3,603
54 modules 3LN	1039	ZLSP950E54-3LN	2CCF212312A0001	1489304	1	3,734
56 modules 3LN	1075	ZLSP950E56-3LN	2CCF212313A0001	1489328	1	3,866
58 modules 3LN	1111	ZLSP950E58-3LN	2CCF212314A0001	1489342	1	4,008
60 modules 3LN	1147	ZLSP950E60-3LN	2CCF212315A0001	1489366	1	4,14
62 modules 3LN	1183	ZLSP950E62-3LN	2CCF212316A0001	1489380	1	4,272
64 modules 3LN	1219	ZLSP950E64-3LN	2CCF212317A0001	1489403	1	4,403
66 modules 3LN	1255	ZLSP950E66-3LN	2CCF212318A0001	1489427	1	4,546
68 modules 3LN	1291	ZLSP950E68-3LN	2CCF212319A0001	1489441	1	4,678
70 modules 3LN	1327	ZLSP950E70-3LN	2CCF212320A0001	1489465	1	4,809
72 modules 3LN	1363	ZLSP950E72-3LN	2CCF212321A0001	1489489	1	4,941
74 modules 3LN	1399	ZLSP950E74-3LN	2CCF212322A0001	1489502	1	5,084
76 modules 3LN	1435	ZLSP950E76-3LN	2CCF212323A0001	1489526	1	5,215
78 modules 3LN	1471	ZLSP950E78-3LN	2CCF212324A0001	1489540	1	5,347
80 modules 3LN	1507	ZLSP950E80-3LN	2CCF212325A0001	1489564	1	5,478
82 modules 3LN	1543	ZLSP950E82-3LN	2CCF212326A0001	1489588	1	5,621
84 modules 3LN	1579	ZLSP950E84-3LN	2CCF212327A0001	1489601	1	5,753
86 modules 3LN	1615	ZLSP950E86-3LN	2CCF212328A0001	1489625	1	5,884
88 modules 3LN	1651	ZLSP950E88-3LN	2CCF212329A0001	1489649	1	6,016
90 modules 3LN	1687	ZLSP950E90-3LN	2CCF212330A0001	1489663	1	6,159
92 modules 3LN	1723	ZLSP950E92-3LN	2CCF212331A0001	1489687	1	6,29
94 modules 3LN	1759	ZLSP950E94-3LN	2CCF212332A0001	1489700	1	6,422
96 modules 3LN	1795	ZLSP950E96-3LN	2CCF212333A0001	1489724	1	6,554
98 modules 3LN	1831	ZLSP950E98-3LN	2CCF212334A0001	1489748	1	6,696
100 modules 3LN	1867	ZLSP950E100-3LN	2CCF212335A0001	1489762	1	6,828
102 modules 3LN	1903	ZLSP950E102-3LN	2CCF212336A0001	1489786	1	6,959
104 modules 3LN	1939	ZLSP950E104-3LN	2CCF212337A0001	1489809	1	7,091
106 modules 3LN	1975	ZLSP950E106-3LN	2CCF212338A0001	1489823	1	7,234
108 modules 3LN	2011	ZLSP950E108-3LN	2CCF212339A0001	1489847	1	7,365
110 modules 3LN	2047	ZLSP950E110-3LN	2CCF212340A0001	1489861	1	7,463

SMISSLINE TP plug-in system

Starter pack Touch proof 3L LA LB

Power Bar System 250 A



Starter pack Touch proof 3LNLALB Busbar system 250 A

Solutions available	Busbars length incl. Socket end piece mm	Type name	ABB IT number	EAN number 761 227	Pack unit	Weight 1 piece kg
30 modules 3LN LA LB	607	ZLSP950E30-3LNLALB	2CCF212400A0001	1489885	1	2,48
32 modules 3LN LA LB	643	ZLSP950E32-3LNLALB	2CCF212401A0001	1489908	1	2,611
34 modules 3LN LA LB	679	ZLSP950E34-3LNLALB	2CCF212402A0001	1489922	1	2,754
36 modules 3LN LA LB	715	ZLSP950E36-3LNLALB	2CCF212403A0001	1489946	1	2,885
38 modules 3LN LA LB	751	ZLSP950E38-3LNLALB	2CCF212404A0001	1489960	1	3,017
40 modules 3LN LA LB	787	ZLSP950E40-3LNLALB	2CCF212405A0001	1489984	1	3,149
42 modules 3LN LA LB	823	ZLSP950E42-3LNLALB	2CCF212406A0001	1490003	1	3,291
44 modules 3LN LA LB	859	ZLSP950E44-3LNLALB	2CCF212407A0001	1490027	1	3,423
46 modules 3LN LA LB	895	ZLSP950E46-3LNLALB	2CCF212408A0001	1490041	1	3,555
48 modules 3LN LA LB	931	ZLSP950E48-3LNLALB	2CCF212409A0001	1490065	1	3,686
50 modules 3LN LA LB	967	ZLSP950E50-3LNLALB	2CCF212410A0001	1490089	1	3,829
52 modules 3LN LA LB	1003	ZLSP950E52-3LNLALB	2CCF212411A0001	1490102	1	3,961
54 modules 3LN LA LB	1039	ZLSP950E54-3LNLALB	2CCF212412A0001	1490126	1	4,092
56 modules 3LN LA LB	1075	ZLSP950E56-3LNLALB	2CCF212413A0001	1490140	1	4,224
58 modules 3LN LA LB	1111	ZLSP950E58-3LNLALB	2CCF212414A0001	1490164	1	4,366
60 modules 3LN LA LB	1147	ZLSP950E60-3LNLALB	2CCF212415A0001	1490188	1	4,498
62 modules 3LN LA LB	1183	ZLSP950E62-3LNLALB	2CCF212416A0001	1490201	1	4,63
64 modules 3LN LA LB	1219	ZLSP950E64-3LNLALB	2CCF212417A0001	1490225	1	4,761
66 modules 3LN LA LB	1255	ZLSP950E66-3LNLALB	2CCF212418A0001	1490249	1	4,904
68 modules 3LN LA LB	1291	ZLSP950E68-3LNLALB	2CCF212419A0001	1490263	1	5,036
70 modules 3LN LA LB	1327	ZLSP950E70-3LNLALB	2CCF212420A0001	1490287	1	5,167
72 modules 3LN LA LB	1363	ZLSP950E72-3LNLALB	2CCF212421A0001	1490300	1	5,299
74 modules 3LN LA LB	1399	ZLSP950E74-3LNLALB	2CCF212422A0001	1490324	1	5,442
76 modules 3LN LA LB	1435	ZLSP950E76-3LNLALB	2CCF212423A0001	1490348	1	5,573
78 modules 3LN LA LB	1471	ZLSP950E78-3LNLALB	2CCF212424A0001	1490362	1	5,705
80 modules 3LN LA LB	1507	ZLSP950E80-3LNLALB	2CCF212425A0001	1490386	1	5,836
82 modules 3LN LA LB	1543	ZLSP950E82-3LNLALB	2CCF212426A0001	1490409	1	5,979
84 modules 3LN LA LB	1579	ZLSP950E84-3LNLALB	2CCF212427A0001	1490423	1	6,111
86 modules 3LN LA LB	1615	ZLSP950E86-3LNLALB	2CCF212428A0001	1490447	1	6,242
88 modules 3LN LA LB	1651	ZLSP950E88-3LNLALB	2CCF212429A0001	1490461	1	6,374
90 modules 3LN LA LB	1687	ZLSP950E90-3LNLALB	2CCF212430A0001	1490485	1	6,517
92 modules 3LN LA LB	1723	ZLSP950E92-3LNLALB	2CCF212431A0001	1490508	1	6,648
94 modules 3LN LA LB	1759	ZLSP950E94-3LNLALB	2CCF212432A0001	1490522	1	6,78
96 modules 3LN LA LB	1795	ZLSP950E96-3LNLALB	2CCF212433A0001	1490546	1	6,912
98 modules 3LN LA LB	1831	ZLSP950E98-3LNLALB	2CCF212434A0001	1490560	1	7,054
100 modules 3LN LA LB	1867	ZLSP950E100-3LNLALB	2CCF212435A0001	1490584	1	7,186
102 modules 3LN LA LB	1903	ZLSP950E102-3LNLALB	2CCF212436A0001	1490607	1	7,317
104 modules 3LN LA LB	1939	ZLSP950E104-3LNLALB	2CCF212437A0001	1490621	1	7,449
106 modules 3LN LA LB	1975	ZLSP950E106-3LNLALB	2CCF212438A0001	1490645	1	7,592
108 modules 3LN LA LB	2011	ZLSP950E108-3LNLALB	2CCF212439A0001	1490669	1	7,723
110 modules 3LN LA LB	2047	ZLSP950E110-3LNLALB	2CCF212440A0001	1490683	1	7,821

SMISSLINE TP plug-in system

Sockets and Incoming components
Power Bar System 250 A



ZLSP906



ZLSP908

Socket base

Description	Type name	ABB IT number	EAN number 761227	Pack unit	Moduls (1 PLE 18mm)	Weight in grams
6-module socket Length 108 mm (includes base and cover)	ZLSP906	2CCF212053A0001	1487324	10	6	113
8-module socket Length 144 mm (includes base and cover)	ZLSP908	2CCF212052A0001	1487300	10	8	147



ZLSP1250

Busbars for the sockets

Description	Type name	ABB IT number	EAN number 761 227	Pack-aging unit	Module	Weight in grams
250 A busbar plated, 25 x 3 mm, for L1, L2, L3, N and PE – Delivery length 1979 mm	ZLSP1250	2CCF212100M0110	1488222	1	110	1343
40 A auxiliary busbar plated, 5 x 2 mm, for LA und LB – Delivery length 1979 mm	ZLS202	2CCF002773R0001	0015719	10	110	240



ZLSP920



ZLSP921

Socket end piece

Description	Type name	ABB IT number	EAN number 761 227	Pack-aging unit	Module	Weight in grams
End piece main socket ZLSP906 or ZLSP908	ZLSP920	2CCF212082A0001	1487386	1	2	103
End piece additional socket ZLSP926 or ZLSP928	ZLSP921	2CCF212085A0001	1487409	1	2	54

Incoming terminal component

50 mm² up to 120 mm² flex wire with ferrule, max. 1 wire
10 mm²–25 mm² 2 wires with ferrule

Version	Type name	ABB IT number	EAN number 761 227	Pack-aging unit	Module	Weight in grams
Feeder component N	ZLSP250	2CCV672600R0001	1490782	1	2	112
Feeder component L1	ZLSP251	2CCV672601R0001	1490805	1	2	112
Feeder component L2	ZLSP252	2CCV672602R0001	1490829	1	2	112
Feeder component L3	ZLSP253	2CCV672603R0001	1490843	1	2	112
Feeder component N additional socket	ZLSP954	2CCV672608R0001	1490867	1	2	100
Feeder component PE additional socket	ZLSP959	2CCV672609R0001	1490881	1	2	100
Feeder component N additional socket (2 holes)	ZLSP954-1	2CCR183393A7001	1452797	1		100



ZLSP25x



ZLSP95x

SMISSLINE TP plug-in system

Incoming bolt-on solution

Power Bar System 250 A



ZLSP934 x



ZLSP935 x



ZLSP934 x and ZLSP935 x



ZLSP963



ZLSP963N-N





ZLSP964

Connection can be done with ring lug like Klauke 9SG8 for 120mm² or 10SG8 for 150mm².
Connection of two socket rows is possible.

Main socket

Description	Bbn 761227	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
Incoming terminal block 3L 8PLE left 250A	1506124	ZLSP934-3L-1	2CCG000036R0001		0.438	1
Incoming terminal block 3L+N 8PLE left 250A	1506148	ZLSP934-3LN	2CCG000038R0001		0.528	1
Incoming terminal block 3L 8PLE right 250A	1506155	ZLSP934-3L-R-1	2CCG000039R0001		0.438	1
Incoming terminal block 3L+N 8PLE right 250A	1506179	ZLSP934-3LN-R	2CCG000041R0001		0.528	1
Additional socket - This solution is only possible to mount on a ZLSP928 (not on ZLSP926, ZLS926, ZLS928).						
Incoming terminal block additional socket N PE left 250A 8PLE	1506186	ZLSP935-8NPE	2CCG000042R0001		0.268	1
Incoming terminal block additional socket PE left 250A 8PLE	1506193	ZLSP935-8PE	2CCG000043R0001		0.178	1
Incoming terminal block additional socket N PE right 250A 8PLE	1506223	ZLSP935-8NPE-R	2CCG000046R0001		0.268	1
Incoming terminal block additional socket PE right 250A 8PLE	1506230	ZLSP935-8PE-R	2CCG000047R0001		0.178	1
Covers for ZLSP934						
Cover for Incoming terminal block 250A (only for replacement)	1506278	ZLSP963	2CCG000051R0001		0.018	1
Cover an connection N-N 250A Connection to wire N from main socket to additional socket. Can only use for M8 120 mm2. Feeding is only possible form the main socket side.	1506261	ZLSP963N-N	2CCG000050R0001		0.074	1
Cover for connection with the cables on one terminal	1507541	ZLSP964	2CCG000207R0001		0.034	4

SMISSLINE TP plug-in system

Additonal socket

Power Bar System 250 A

Additional socket

The additional socket can easily be fitted onto the socket base to accomodate the external N and/or PE busbars. This enables neutral connections to be made where single-pole miniature circuit breakers are used with unswitched neutral. Neutral terminals are clipped onto the additional socket and can be used as detachable neutral connections. One N busbar and/or one PE busbar can be fitted. Each socket base can be equipped with an additional socket.



ZLSP928



ZLSP926

Additional socket for external N and PE busbars

	Type name	ABB IT number	EAN number 761227	Packaging unit	Module	Weight in grams
– 8-module socket (suitable for 8-module socket)	ZLSP928	2CCF212060A0001	1487348	10	8	67
– 6-module socket (suitable for 6-module socket)	ZLSP926	2CCF212061A0001	1487362	10	6	53



ZLS938

Busbar insulator

	Type name	ABB IT number	EAN number 761227	Packaging unit	Module	Weight in grams
dark grey, 20 for isolation and spacing of separate busbar sections, 18 mm	ZLS938	2CCA205611R0001	148205	1	1	1



ZLSP906

Busbar cover

	Type name	ABB IT number	EAN number 761227	Packaging unit	Module	Weight in grams
electrically protected covering of main and auxiliary busbars. The 4 modules cover can be divided. Suitable to accept extension adapter ZLS 101 4x18 mm – bag containing 5 items	ZLS100	2CCF002762R0001	0015603	1	1	95



ZLSP906

Din rail clip

	Type name	ABB IT number	EAN number 761227	Packaging unit	Module	Weight in grams
Din rail clip ZLSP926 and ZLSP928. This item is need if the additional socket will be mounted on a DIN rail. 1 pcs. every 30 cm.	ZLSP937	2CCA212012R0001	498306	Bag of 5		18

SMISSLINE TP plug-in system

Busbars Power Bar System 250 A and 40 A

250 A and 40 A busbars / selection table for sockets

Order data busbar 250A	ABB IT number	EAN number 761227	ZLSP908	ZLSP906	Pack unit	Moduls (1 PLE 18mm)	Weight in grams	Busbar length in mm	Order data busbar 40A	ABB IT number	EAN number 761227
ZLSP1250E30	2CCF212100M0030	148 7423	3	1	1	30	366	535	ZLS203E30	2CCF800229R0001	0017669
ZLSP1250E32	2CCF212100M0032	148 7447	4	–	1	32	391	571	ZLS203E32	2CCF800230R0001	0017683
ZLSP1250E34	2CCF212100M0034	148 7461	2	3	1	34	415	607	ZLS203E34	2CCF800231R0001	0017706
ZLSP1250E36	2CCF212100M0036	148 7485	3	2	1	36	439	643	ZLS203E36	2CCF800232R0001	0017720
ZLSP1250E38	2CCF212100M0038	148 7508	4	1	1	38	464	679	ZLS203E38	2CCF800233R0001	0017744
ZLSP1250E40	2CCF212100M0040	148 7522	5	–	1	40	488	715	ZLS203E40	2CCF800234R0001	0017768
ZLSP1250E42	2CCF212100M0042	148 7546	3	3	1	42	513	751	ZLS203E42	2CCF800235R0001	0017782
ZLSP1250E44	2CCF212100M0044	148 7560	4	2	1	44	537	787	ZLS203E44	2CCF800236R0001	0017805
ZLSP1250E46	2CCF212100M0046	148 7584	5	1	1	46	561	823	ZLS203E46	2CCF800237R0001	0017829
ZLSP1250E48	2CCF212100M0048	148 7607	6	–	1	48	586	859	ZLS203E48	2CCF800238R0001	0017843
ZLSP1250E50	2CCF212100M0050	148 7621	4	3	1	50	610	895	ZLS203E50	2CCF800239R0001	0017867
ZLSP1250E52	2CCF212100M0052	148 7645	5	2	1	52	635	932	ZLS203E52	2CCF800240R0001	0017881
ZLSP1250E54	2CCF212100M0054	148 7669	6	1	1	54	659	968	ZLS203E54	2CCF800241R0001	0017904
ZLSP1250E56	2CCF212100M0056	148 7683	7	–	1	56	683	1004	ZLS203E56	2CCF800242R0001	0017928
ZLSP1250E58	2CCF212100M0058	148 7706	5	3	1	58	708	1040	ZLS203E58	2CCF800243R0001	0017942
ZLSP1250E60	2CCF212100M0060	148 7720	6	2	1	60	732	1076	ZLS203E60	2CCF800244R0001	0017973
ZLSP1250E62	2CCF212100M0062	148 7744	7	1	1	62	757	1112	ZLS203E62	2CCF800245R0001	0017997
ZLSP1250E64	2CCF212100M0064	148 7768	8	–	1	64	781	1148	ZLS203E64	2CCF800246R0001	0018017
ZLSP1250E66	2CCF212100M0066	148 7782	6	3	1	66	806	1184	ZLS203E66	2CCF800247R0001	0018031
ZLSP1250E68	2CCF212100M0068	148 7805	7	2	1	68	830	1220	ZLS203E68	2CCF800248R0001	0018055
ZLSP1250E70	2CCF212100M0070	148 7829	8	1	1	70	854	1256	ZLS203E70	2CCF800249R0001	0018079
ZLSP1250E72	2CCF212100M0072	148 7843	9	–	1	72	879	1292	ZLS203E72	2CCF800250R0001	0018093
ZLSP1250E74	2CCF212100M0074	148 7867	7	3	1	74	903	1328	ZLS203E74	2CCF800251R0001	0018116
ZLSP1250E76	2CCF212100M0076	148 7881	8	2	1	76	928	1364	ZLS203E76	2CCF800252R0001	0018130
ZLSP1250E78	2CCF212100M0078	148 7904	9	1	1	78	952	1400	ZLS203E78	2CCF800253R0001	0018154
ZLSP1250E80	2CCF212100M0080	148 7928	10	–	1	80	976	1436	ZLS203E80	2CCF800254R0001	0018185
ZLSP1250E82	2CCF212100M0082	148 7942	8	3	1	82	1001	1472	ZLS203E82	2CCF800255R0001	0018208
ZLSP1250E84	2CCF212100M0084	148 7966	9	2	1	84	1025	1508	ZLS203E84	2CCF800256R0001	0018222
ZLSP1250E86	2CCF212100M0086	148 7980	10	1	1	86	1050	1544	ZLS203E86	2CCF800257R0001	0018246
ZLSP1250E88	2CCF212100M0088	148 8000	11	–	1	88	1074	1580	ZLS203E88	2CCF800258R0001	0018260
ZLSP1250E90	2CCF212100M0090	148 8024	9	3	1	90	1098	1616	ZLS203E90	2CCF800259R0001	0018284
ZLSP1250E92	2CCF212100M0092	148 8048	10	2	1	92	1123	1652	ZLS203E92	2CCF800260R0001	0018307
ZLSP1250E94	2CCF212100M0094	148 8062	11	1	1	94	1147	1688	ZLS203E94	2CCF800261R0001	0018321
ZLSP1250E96	2CCF212100M0096	148 8086	12	–	1	96	1172	1724	ZLS203E96	2CCF800262R0001	0018345
ZLSP1250E98	2CCF212100M0098	148 8109	10	3	1	98	1196	1760	ZLS203E98	2CCF800263R0001	0018369
ZLSP1250E100	2CCF212100M0100	148 8123	11	2	1	100	1220	1796	ZLS203E100	2CCF800264R0001	0017195
ZLSP1250E102	2CCF212100M0102	148 8147	12	1	1	102	1245	1832	ZLS203E102	2CCF800265R0001	0017218
ZLSP1250E104	2CCF212100M0104	148 8161	13	–	1	104	1269	1868	ZLS203E104	2CCF800266R0001	0017232
ZLSP1250E106	2CCF212100M0106	148 8185	11	3	1	106	1294	1904	ZLS203E106	2CCF800267R0001	0017256
ZLSP1250E108	2CCF212100M0108	148 8208	12	2	1	108	1318	1940	ZLS203E108	2CCF800268R0001	0017270

Planning for the incorporation of feeder block and spare places should be taken into account.
The total lengths given above were calculated taking socket spacings and tolerances into account.
For this reason, the indicated busbar length is not necessarily a multiple of 18 mm (1 Module).

SMISSLINE TP plug-in system

One system with many options

SMISSLINE TP protective devices with plug-in technology – the individual way in switchgear technology
Five modern protective devices in the same design are simply plugged onto a busbar system. The complex feed-in and connection work is already done. In addition to this time and cost savings, it is crucial to be able to quickly and easily replace equipment. Third-party devices can be integrated into the busbar system by using adapters. The system was developed for commercial and industrial switchgear technology. Installation and wiring times can be greatly reduced by using the directly attachable system.

Together with the ABB STRIEBEL & JOHN switchgear system, optimum space utilization, easy changes and expansion of the switch cabinet and its installations can be achieved thanks to horizontal or vertical installation options. The individual components are coordinated with each other, such as the length of the plug-in socket and the modular components of the switch cabinets. Of course, mixed installation options of conventional modular devices can also easily be realized, such as pro M Compact. The configured ABB STRIEBEL & JOHN expansion products make this possible.

A powerful 250 A system is now available with the SMISSLINE TP Power Bar system. The busbars have a rated amperage of 250 A and therefore allow end feed of 250 A, which significantly expands the system’s range of application.

SMISSLINE TP and ABB STRIEBEL & JOHN – the cabinet system at a glance:
- Flexible and modular
- Freedom in concept and arrangement
- Time saved during planning and execution
- Quick adaptation when expanding
- Allows for the load-free connection and disconnection of devices and components under voltage without the need for additional personal protective equipment to guard against electrical hazards
- Coordinated product components
- SMISSLINE TP modules can be combined with other ABB STRIEIBEL & JOHN distribution panels and modules

Small cause, large effect
As the world's first pluggable socket system, SMISSLINE TP allows devices and components to be snapped on and off, load-free and under voltage, without having to take additional personal protective measures. It opens up to a completely new prospects when it comes to installation, operation and flexibility.





> Information on SMISSLINE TP modular installation devices siehe Seite 69

SMISSLINE TP plug-in system

Busbar system 250 A

Direct feed

The direct feed starter pack solution allows a direct connection from the 250A Power Bar System to the pluggable ABB XT4 Moulded Case Circuit Breaker. The solution is built for a vertical design.
The additional heat sink part is helpful to reduce the heat on the system.

Direct Feed 250A



Number of poles	32 to 80 3p+N/2 additional bars PE+N
Rated operational voltage (U_e)	690 VAC, 1000 VDC (400 V for LA, LB busbars)
Rated insulation voltage (U_i)	690 VAC, 1000 VDC
IP Code	IP20B
Pollution degree	3 (690 V a.c.) 2 (1000 V d.c.)
Rated impulse voltage (U_{imp})	8 kV (L1L2L3N)
Rated current of the assembly (I_{nA})	250 A
Rated current of a circuit (I_{nc}): main circuit	Max. 250 A
Rated current of Auxiliary circuit	40 A
Rated short-time withstand current (I_{cw})	15 kA/100 ms Main circuit, 4 kA/50 ms Auxiliary circuit
Rated peak withstand current Main circuit (I_{pk})	30 kA
Rated peak withstand current Auxilary circuit (I_{pk})	6 kA
Rated frequency (f)	50/60 Hz
Rated conditional short-circuit current (I_{cc}): see table below	
Ambient air temperature	max. 60 °C
Size of CU bars 3P+N+PE	3 x 25 mm (75 mm²)
Size of CU auxiliary bars La Lb	2 x 5 mm (10 mm²)
Environmental conditions (damp heat)	1 cycle with 55 °C/90...96% and 25 °C/95...100%

Voltage (VAC)	Rated conditional short-circuit current (I_{cc})	Incoming current of main busbars (L1, L2, L3, N)	Short circuit protection device (SCPD)
415 V	100 kA	250 A	ABB Tmax XT4 250 A
690V	25 kA	250 A	

Technical data data UL508; Approvals for US and CA: cULus
Direct Feed 250A

SMISSLINE TP system for UL 508 – Industrial Control Equipment, CSA C22.2 No. 14 – Industrial Control Equipment UL File E222110	Control Equipment UL File E222110
UL Rated Voltage	600 VAC
UL Rated Current (End Feed)	250 A
UL Short Circuit Rating	50 kA (480 V), 35 kA (600 V) with XT4 250 A

SMISSLINE TP plug-in system

Direct Feed Touch proof 3L and 3LN
Power Bar System 250 A

Ordering data



Left Version



Right Version

Solutions available	Direct feed length incl. Socket end piece mm	Type name	ABB IT number	EAN number 761227	Pack unit	Weight 1 piece kg
32PLE 3L left	742	ZLSP960-3L-32-L	2CCG000155R0001	1507022	1	2,868
32PLE 3LN left	742	ZLSP960-3LN-32-L	2CCG000156R0001	1507039	1	4,258
32PLE 3L right	742	ZLSP960-3L-32-R	2CCG000157R0001	1507046	1	3,258
32PLE 3LN right	742	ZLSP960-3LN-32-R	2CCG000158R0001	1507053	1	4,258
40PLE 3L left	886	ZLSP960-3L-40-L	2CCG000159R0001	1507060	1	3,308
40PLE 3LN left	886	ZLSP960-3LN-40-L	2CCG000160R0001	1507077	1	4,796
40PLE 3L right	886	ZLSP960-3L-40-R	2CCG000161R0001	1507084	1	3,308
40PLE 3LN right	886	ZLSP960-3LN-40-R	2CCG000162R0001	1507091	1	4,796
48PLE 3L left	1030	ZLSP960-3L-48-L	2CCG000163R0001	1507107	1	3,747
48PLE 3LN left	1030	ZLSP960-3LN-48-L	2CCG000164R0001	1507114	1	5,333
48PLE 3L right	1030	ZLSP960-3L-48-R	2CCG000165R0001	1507121	1	3,747
48PLE 3LN right	1030	ZLSP960-3LN-48-R	2CCG000166R0001	1507138	1	5,333
56PLE 3L left	1174	ZLSP960-3L-56-L	2CCG000167R0001	1507145	1	4,187
56PLE 3LN left	1174	ZLSP960-3LN-56-L	2CCG000168R0001	1507152	1	5,871
56PLE 3L right	1174	ZLSP960-3L-56-R	2CCG000169R0001	1507169	1	4,187
56PLE 3LN right	1174	ZLSP960-3LN-56-R	2CCG000170R0001	1507176	1	5,871
64PLE 3L left	1318	ZLSP960-3L-64-L	2CCG000171R0001	1507183	1	4,627
64PLE 3LN left	1318	ZLSP960-3LN-64-L	2CCG000172R0001	1507190	1	6,408
64PLE 3L right	1318	ZLSP960-3L-64-R	2CCG000173R0001	1507206	1	4,627
64PLE 3LN right	1318	ZLSP960-3LN-64-R	2CCG000174R0001	1507213	1	6,408
66PLE 3L left	1354	ZLSP960-3L-66-L	2CCG000175R0001	1507220	1	4,746
66PLE 3LN left	1354	ZLSP960-3LN-66-L	2CCG000176R0001	1507237	1	6,551
66PLE 3L right	1354	ZLSP960-3L-66-R	2CCG000177R0001	1507244	1	4,746
68PLE 3LN right	1390	ZLSP960-3LN-66-R	2CCG000178R0001	1507251	1	6,551
68PLE 3L left	1390	ZLSP960-3L-68-L	2CCG000179R0001	1507268	1	4,853
68PLE 3LN left	1390	ZLSP960-3LN-68-L	2CCG000180R0001	1507275	1	6,683
68PLE 3L right	1390	ZLSP960-3L-68-R	2CCG000181R0001	1507282	1	4,853
70PLE 3LN right	1426	ZLSP960-3LN-68-R	2CCG000182R0001	1507299	1	6,683
70PLE 3L left	1426	ZLSP960-3L-70-L	2CCG000183R0001	1507305	1	4,96
70PLE 3LN left	1426	ZLSP960-3LN-70-L	2CCG000184R0001	1507312	1	6,814
70PLE 3L right	1426	ZLSP960-3L-70-R	2CCG000185R0001	1507329	1	4,96
72PLE 3LN right	1462	ZLSP960-3LN-70-R	2CCG000186R0001	1507336	1	6,814
72PLE 3L left	1462	ZLSP960-3L-72-L	2CCG000187R0001	1507343	1	5,067
72PLE 3LN left	1462	ZLSP960-3LN-72-L	2CCG000188R0001	1507350	1	6,946
72PLE 3L right	1462	ZLSP960-3L-72-R	2CCG000189R0001	1507367	1	5,067
74PLE 3LN right	1498	ZLSP960-3LN-72-R	2CCG000190R0001	1507374	1	6,946
74PLE 3L left	1498	ZLSP960-3L-74-L	2CCG000191R0001	1507381	1	5,185
74PLE 3LN left	1498	ZLSP960-3LN-74-L	2CCG000192R0001	1507398	1	7,089
74PLE 3L right	1498	ZLSP960-3L-74-R	2CCG000193R0001	1507404	1	5,185
76PLE 3LN right	1534	ZLSP960-3LN-74-R	2CCG000194R0001	1507411	1	7,089
76PLE 3L left	1534	ZLSP960-3L-76-L	2CCG000195R0001	1507428	1	5,293
76PLE 3LN left	1534	ZLSP960-3LN-76-L	2CCG000196R0001	1507435	1	7,22
76PLE 3L right	1534	ZLSP960-3L-76-R	2CCG000197R0001	1507442	1	5,293
78PLE 3LN right	1570	ZLSP960-3LN-76-R	2CCG000198R0001	1507459	1	7,22
78PLE 3L left	1570	ZLSP960-3L-78-L	2CCG000644R0001	1507466	1	5,4
78PLE 3LN left	1570	ZLSP960-3LN-78-L	2CCG000200R0001	1507473	1	7,352
78PLE 3L right	1570	ZLSP960-3L-78-R	2CCG000645R0001	1507480	1	5,4
80PLE 3LN right	1606	ZLSP960-3LN-78-R	2CCG000202R0001	1507497	1	7,352
80PLE 3L left	1606	ZLSP960-3L-80-L	2CCG000203R0001	1507503	1	5,507
80PLE 3LN left	1606	ZLSP960-3LN-80-L	2CCG000204R0001	1507510	1	7,483
80PLE 3L right	1606	ZLSP960-3L-80-R	2CCG000205R0001	1507527	1	5,507
80PLE 3LN right	1606	ZLSP960-3LN-80-R	2CCG000206R0001	1507534	1	7,483

Busbar system 250 A

Direct feed Accessories

At the first 12 module positions close to the XT4 a derating of 0,76 shall be applied.
For the other modules the derating is according the data from the technical catalogue for MCB, RCD, RCBOs. The specific deratings for devices for influence of adjacent poles and ambient temperature must be still carefully attended in any case.

Ordering data

	Solutions available	EAN number 761227	Type name	ABB IT number	Weight in grams	Pack unit
	Heatsink 3L	1512446	ZLSP960HS-3L	2CCG000736R0001	197	1
	Heatsink 3LN	1512453	ZLSP960HS-3LN	2CCG000739R0001	262	1
	Screws (only for replacement, all screws are included in direct feed)	1508401	ZLSP960screw	2CCG000361R0001	55	-

SMISSLINE TP plug-in system

One system with many options



—
01
The outlet wiring is done directly on the installed devices. The N and PE terminals are assigned to the devices accordingly. The outlet cables are affixed in a mesh cable tray neatly and clearly arranged.

—
02
A cabinet equipped with modules for accommodating SMISSLINE TP devices with third-party device adapters and pro M modular devices.

—
01



—
02



Notes

SMISSLINE TP plug-in system

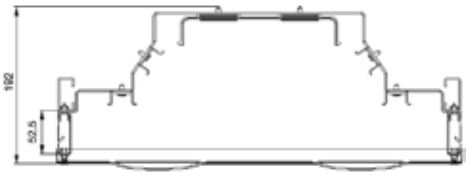
CombiLine modules view

Horizontal modules are suitable for mounting on WR or EDF profiles. From cabinet depth of 215 mm. The WR or EDF mounting frame must be ordered separately.

Vertical modules are suitable for mounting in cabinets from a depth of 275 mm. The mounting frame must be ordered separately. Cable laying grid is included for cable fixing. With DIN rail for PE/N disconnect terminals.



Sectional drawing from above, example MC203HS



Sectional drawing from above, example MC203VS

Front view



Front view







SMISSLINE TP 125 A interior expansion with CombiLine

Options for assembly in an enclosure

For a horizontal device arrangement, the DIN rail can be set in conjunction with mounting adapters. The Busbar systems cannot be through-connected from one panel to the next. The DIN rail is mounted to a 2-stage bracket (in front upon delivery). The front position is for the plug-in socket assembly. The SMISSLINE TP devices will directly be mounted. The back position is for mounting the socket bases for devices with DIN-rail adapters.

For a vertical device arrangement, the existing cover holders are replaced with cover holders ED137P4 with spacers ED135P4 in conjunction with mounting adapters. In addition, a cover raising frame is required, so that there is more space under the cover. All devices using mounting adapters are to be arranged under a separate cover. Cable lying grids are installed for modules with a vertical device arrangement in order to attach the lines. The DIN rails are designed to be equipped with the SMISSLINE TP socket base rows. It is also possible to connect the SMISSLINE TP additional socket (N/PE terminals).

Horizontal device arrangement



Vertical device arrangement



Important: It is recommended to provide at least a 150 mm high terminal or wiring space on the cable entry side.

SMISSLINE TP 125 A interior expansion with CombiLine

For horizontal and vertical device arrangement



MC203HS



MC303HS

- SMISSLINE TP modules for horizontal device arrangement
- Extension with DIN rails 35 x 15 mm
- Distance between DIN rails 150 mm
- From 3 panels on the DIN rails are equipped, with additional stabilization rail
- Important: The SMISSLINE TP busbar system cannot be through-connected from one module to the next
- The mounting frame must be ordered separately

Height		Width		Socket base length			From cabinet depth	FLATPACK not installed		MOUNTED and installed in the cabinet	
OH	mm	PW	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
2	300	2	500	2 x 22	●	●	215	MBC202HS	2CPX042155R9999	MC202HS	2CPX042132R9999
	300	3	750	2 x 36	●	●	215	MBC302HS	2CPX042156R9999	MC302HS	2CPX042133R9999
3	450	2	500	3 x 22	●	●	215	MBC203HS	2CPX042157R9999	MC203HS	2CPX042134R9999
	450	3	750	3 x 36	●	●	215	MBC303HS	2CPX042158R9999	MC303HS	2CPX042135R9999
4	600	2	500	4 x 22	●	●	215	MBC204HS	2CPX042159R9999	MC204HS	2CPX042136R9999
	600	3	750	4 x 36	●	●	215	MBC304HS	2CPX042160R9999	MC304HS	2CPX042137R9999
5	750	2	500	5 x 22	●	●	215	MBC205HS	2CPX042161R9999	MC205HS	2CPX042138R9999
	750	3	750	5 x 36	●	●	215	MBC305HS	2CPX042162R9999	MC305HS	2CPX042139R9999



MC103VS



MC203VS



MC305VS

- SMISSLINE TP modules for vertical device arrangement
- Extension with DIN rails 35 x 15 mm
- The DIN rails in the back are designed for standard N (N disconnect terminals) and PE terminals
- A cable laying grid is included for cable fixing
- The DIN rails and cable laying grids are flush with the module
- Important: Vertical modules cannot be mounted directly on central support rails and horizontal cross members
- The mounting frame must be ordered separately

3	450	1	250	1 x 22		●	275	MBC103VS	2CPX042163R9999	MC103VS	2CPX042140R9999
	450	2	500	2 x 22		●	275	MBC203VS	2CPX042164R9999	MC203VS	2CPX042141R9999
4	600	1	250	1 x 30		●	275	MBC104VS	2CPX042165R9999	MC104VS	2CPX042142R9999
	600	2	500	2 x 30		●	275	MBC204VS	2CPX042166R9999	MC204VS	2CPX042143R9999
	600	3	750	2 x 30		●	275	-	-	MC304VS	2CPX042913R9999
5	750	1	250	1 x 38		●	275	MBC105VS	2CPX042167R9999	MC105VS	2CPX042144R9999
	750	2	500	2 x 38		●	275	MBC205VS	2CPX042168R9999	MC205VS	2CPX042145R9999
	750	3	750	2 x 38		●	275	MBC305VS	2CPX042911R9999	MC305VS	2CPX042910R9999

*1 Expansion on EDF mounting frame *2 Expansion on WR mounting frame

SMISSLINE TP Power Bar 250 A interior expansion with CombiLine

For horizontal and vertical device arrangement



MC203HS



MC303HS

- SMISSLINE TP modules for horizontal device arrangement
- Extension with DIN rails 35 x 15 mm
- Distance between DIN rails 150 mm
- From 3 panels on the DIN rails are equipped, with additional stabilization rail
- Important: The SMISSLINE TP busbar system cannot be through-connected from one module to the next
- The mounting frame must be ordered separately

Height		Width		Socket base length			Down Cabinet depth	FLATPACK not installed		MOUNTED and installed in the cabinet	
OH	mm	PW	mm	PLE	EDF*1	WR*2	mm	Type	Item number	Type	Item number
2	300	2	500	2 x 22	●	●	215	MBC202HS	2CPX042155R9999	MC202HS	2CPX042132R9999
	300	3	750	2 x 36	●	●	215	MBC302HS	2CPX042156R9999	MC302HS	2CPX042133R9999
3	450	2	500	3 x 22	●	●	215	MBC203HS	2CPX042157R9999	MC203HS	2CPX042134R9999
	450	3	750	3 x 36	●	●	215	MBC303HS	2CPX042158R9999	MC303HS	2CPX042135R9999
4	600	2	500	4 x 22	●	●	215	MBC204HS	2CPX042159R9999	MC204HS	2CPX042136R9999
	600	3	750	4 x 36	●	●	215	MBC304HS	2CPX042160R9999	MC304HS	2CPX042137R9999
5	750	2	500	5 x 22	●	●	215	MBC205HS	2CPX042161R9999	MC205HS	2CPX042138R9999
	750	3	750	5 x 36	●	●	215	MBC305HS	2CPX042162R9999	MC305HS	2CPX042139R9999



MC203VS



MC305VS

- SMISSLINE TP Power Bar 250 A modules for vertical device arrangement
- Extension with DIN rails 35 x 15 mm
- The DIN rails in the back are designed for standard N (N disconnect terminals) and PE terminals
- A cable laying grid is included for cable fixing
- The DIN rails and cable laying grids are flush with the module
- Important: Vertical modules cannot be mounted directly on central support rails and horizontal cross members.
- The mounting frame must be ordered separately

3	450	2	500	2 x 22		●	275	MBC203VP	2CPX043369R9999	MC203VP	2CPX043349R9999
4	600	2	500	2 x 30		●	275	MBC204VP	2CPX043371R9999	MC204VP	2CPX043351R9999
	600	3	750	2 x 30		●	275	MBC304VP	2CPX043376R9999	MC304VP	2CPX043374R9999
5	750	2	500	2 x 38		●	275	MBC205VP	2CPX043373R9999	MC205VP	2CPX043353R9999
	750	3	750	2 x 38		●	275	MBC305VP	2CPX043377R9999	MC305VP	2CPX043375R9999

*1 Expansion on EDFmounting frame *2 Expansion on WRmounting frame

SMISSLINE TP plug-in system

Cable laying grids, DIN rails, fixing brackets



ZW430



ZW436



ZW470



ZW257



ZW359



ED73



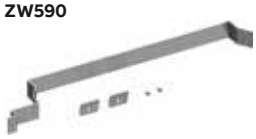
ED52



ZX399



ZW590



ZW592

Article	Use for...	VE/pc.	Type	Order code
Cable laying grids width 100 mm Length				
450 mm	M(B)C103VS	1	ZW430	2CPX042170R9999
600 mm	M(B)C104VS	1	ZW431	2CPX042171R9999
750 mm	M(B)C105VS	1	ZW432	2CPX042172R9999
Cable laying grids width 200 mm Length				
450 mm	M(B)C203VS	1	ZW436	2CPX042176R9999
600 mm	M(B)C204VS	1	ZW437	2CPX042177R9999
750 mm	M(B)C205VS	1	ZW438	2CPX042178R9999
3000 mm	-	1	ZW460	2CPX073256R9999
Cable laying grids width 300 mm Length				
3000 mm	-	1	ZW470	2CPX073257R9999
Fixing bracket for cable laying grids SMISSLINE TP system 125 A For cabinet depth from 275 mm				
1 panel wide	M(B)C1...VS	1	ZW257	2CPX042182R9999
2 panel wide	M(B)C2...VS	1	ZW258	2CPX042183R9999
3 panel wide	M(B)C3...VS	1	ZW359	2CPX042912R9999
Vertical DIN rails For module height				
450 mm	M(B)C...03VS	1	ED73	2CPX042184R9999
600 mm	M(B)C...04VS	1	ED74	2CPX042185R9999
750 mm	M(B)C...05VS	1	ED75	2CPX042186R9999
Horizontal DIN rails				
2 panel wide	M(B)C2...HS	1	ED52	2CPX039252R9999
3 panel wide	M(B)C3...HS	1	ED53	2CPX039253R9999
Fixing bracket For horizontal DIN rails, 1 set left / right	M(B)C...HS	1	ZX399	2CPX062669R9999
Mounting bracket for cable laying grids Power Bar 250 A For cabinet depth from 275 mm				
1 panel wide	M(B)C1...VP	1	ZW590	2CPX042922R9999
2 panel wide	M(B)C2...VP	1	ZW591	2CPX042923R9999
3 panel wide	M(B)C3...VP	1	ZW592	2CPX042924R9999

SMISSLINE TP plug-in system

Cover holders, panel connectors, raising frames



ED137P4



ED138P12



ED135P4



ED50P12



ED30P2



ED213

Article	VE/pc.	Type	Order code
Cover holder 45 mm high, required when changing the cover height when installing mounting adapters in the cover height when installing vertical modules	4	ED137P4	2CPX062600R9999
Cover holder 52.5 mm high	12	ED138P12	2CPX062602R9999
	40	ED138P40	2CPX062603R9999
Space To extend the cover holder by 25 mm	4	ED135P4	2CPX062610R9999
90 degree press and turn closure	12	ED50P12	2CPX062337R9999
Panel connector Used to join distribution panels or combination sets with each other up to a maximum Overall height 5 (9 RE)	2	ED30P2	2CPX062302R9999
Raising frame for covers Required to change the cover height when installing mounting device adapters in vertical modules External dimensions (H x W)			
450 x 250 mm	1	ED213	2CPX062783R9999
600 x 250 mm	1	ED214	2CPX062784R9999
750 x 250 mm	1	ED215	2CPX062785R9999
450 x 500 mm	1	ED223	2CPX062788R9999
600 x 500 mm	1	ED224	2CPX062789R9999
750 x 500 mm	1	ED225	2CPX062790R9999
450 x 750 mm	1	ED233	2CPX062793R9999
600 x 750 mm	1	ED234	2CPX062794R9999
750 x 750 mm	1	ED235	2CPX062795R9999

SMISSLINE TP plug-in system

Plastic cover horizontal



AS22H

Article	Use for...	VE/pc.	Type	Order code
Plastic cover horizontal With device slot, 2 panel wide External dimensions (H x W)				
300 x 500 mm	M(B)C202HS	1	AS22H	2CPX062764R9999
450 x 500 mm	M(B)C203HS	1	AS23H	2CPX062765R9999
600 x 500 mm	M(B)C204HS	1	AS24H	2CPX062766R9999
750 x 500 mm	M(B)C205HS	1	AS25H	2CPX062767R9999



AS32H

Plastic cover horizontal With device slot, 3 panel wide External dimensions (H x W)				
300 x 750 mm	M(B)C302HS	1	AS32H	2CPX062768R9999
450 x 750 mm	M(B)C303HS	1	AS33H	2CPX062769R9999
600 x 750 mm	M(B)C304HS	1	AS34H	2CPX062770R9999
750 x 750 mm	M(B)C305HS	1	AS35H	2CPX062771R9999

SMISSLINE TP plug-in system

Plastic cover vertical



AS13V



AS23V

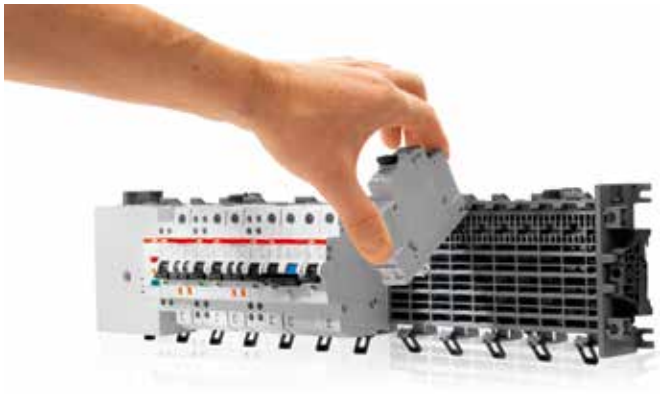


AS35V

Article	Use for...	VE/pc.	Type	Order code
Plastic cover vertical With device slot, 1 panel wide External dimensions (H x W)				
450 x 250 mm	M(B)C103VS	1	AS13V	2CPX062772R9999
600 x 250 mm	M(B)C104VS	1	AS14V	2CPX062773R9999
750 x 250 mm	M(B)C105VS	1	AS15V	2CPX062774R9999
Plastic cover vertical With device slot, 2 panel wide External dimensions (H x W)				
450 x 500 mm	M(B)C203VS	1	AS23V	2CPX062775R9999
600 x 500 mm	M(B)C204VS	1	AS24V	2CPX062776R9999
750 x 500 mm	M(B)C205VS	1	AS25V	2CPX062777R9999
Plastic cover vertical With device slot, 3 panel wide External dimensions (H x W)				
750 x 750 mm	M(B)C305VS	1	AS35V	2CPX062796R9999

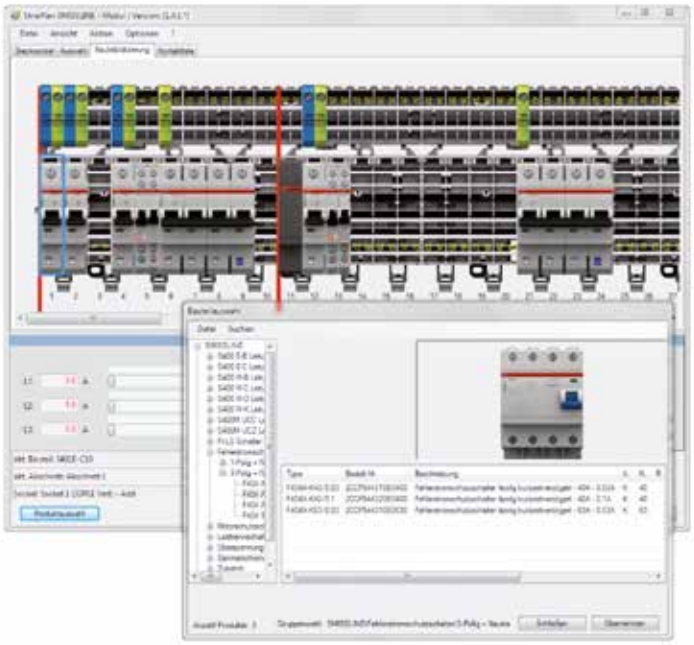
SMISSLINE TP plug-in system

Socket calculation with e-Design and Panel Design Configurator



In our Panel Design Configurator: SMISSLINE TP Designer

The SMISSLINE TP Designer is integrated in the StriePlan basic version. StriePlan thus offers a simple configuration and calculation of the SMISSLINE TP pluggable socket system. The SMISSLINE TP Designer makes it possible to select and configure ABB SMISSLINE TP products in a graphic environment:



Advantages at a glance:

- Complete integration in StriePlan
- Cabinet and module selection possible in StriePlan specifically for SMISSLINE TP plug-in socket
- Graphic equipping of the plug-in socket
- Complete selection of SMISSLINE TP products
- Configuration of accessories
- Automatic equipping
- Supported placement of the feed-in

Information about:

- Incoming and outgoing current
- Control and display of the units, the current and the power loss
- Technical specifications of the devices, including price calculation (in StriePlan)
- Print or export (in StriePlan) of BOMs, design drawings or tender texts



Accessories dialog

The combination of devices and additional components (e.g.: auxiliary and signal contacts) is comprehensively supported

- Automatic insertion of component combinations
- Automatic component selection for right/left positioning

The fully machined sockets will continue to be managed in StriePlan.

SMISSLINE TP plug-in system

Comparison of starting package with plug-in socket in individual parts

Solution of plug-in socket starting package

The plug-in socket and busbars are already assembled. Different lengths are available. The assignment of the appropriate ABB STRIEBEL & JOHN modules to the starting packages is described on the following pages – planning aid for SMISSLINE TP plug-in socket.

The detailed solutions of the plug-in socket and starting package are evident in the technical catalog SMISSLINE TP or the catalog low-voltage material of ABB-Stotz Kontakt and ABB STRIEBEL & JOHN.



Solution of plug-in socket in individual parts

You can assemble plug-in sockets, busbars and socket end pieces on your own from the individual components. Plug-in sockets with 8 units (144 mm) and 6 units (108 mm) can be selected and assembled in any number up to 110 PLE.

The busbars can be ordered in the length of 1979 mm and shortened accordingly. It is also possible to order busbars from ABB already cut to length.



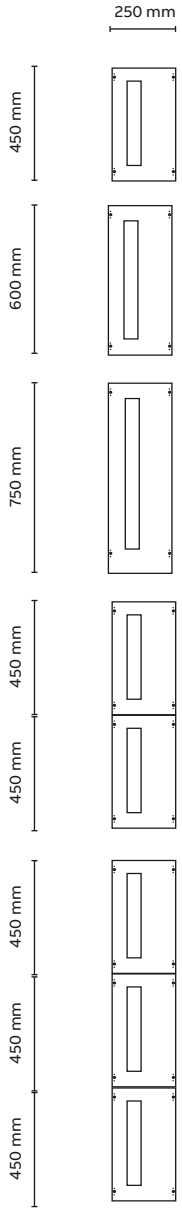






SMISSLINE TP plug-in system

Assignment of CombiLine modules



Modules for cabinets from a cabinet depth of 215 mm	Modules for cabinets from a cabinet depth of 275 mm		Grid units	Socket base length
Combination sets type	CombiLine mounted	CombiLine flatpack	GU	SU
1 x ED103VS	1 x MC103VS	1 x MBC103VS	3 RE	22 PLE
1 x ED104VS	1 x MC104VS	1 x MBC104VS	4 RE	30 PLE
1 x ED105VS	1 x MC105VS	1 x MBC105VS	5 RE	38 PLE
2 x ED103VS	2 x MC103VS	2 x MBC103VS	6 RE	46 PLE
3 x ED103VS	3 x MC103VS	3 x MBC103VS	9 RE	72 PLE

Information about planning

When positioning incoming terminal blocks under cover joints, lower feed-in blocks ZLS228 or ZLS229 are to be used.

Vertical modules cannot be mounted directly on central support rails and horizontal cross members.

SMISSLINE TP plug-in system

Starter kit or socket base in individual parts

Socket base starter kit			Socket base in individual parts			
Unit	**Type**	**Order code**	**Unit**	**Space units**	**Type**	**Order code**
1	ZLS905E22-3L	2CCA183102R0001	2	8	ZLS908	2CCA183030R0001
			1	6	ZLS906	2CCA183035R0001
			1	-	ZLS920 (end piece)	2CCA183017R0001
1	ZLS905E22-3LN*	2CCA183103R0001	3/4*	-	ZLS201E22 (Copper rail)	2CCF800169R0001
1	ZLS905E30-3L	2CCA183110R0001	3	8	ZLS908	2CCA183030R0001
			1	6	ZLS906	2CCA183035R0001
			1	-	ZLS920 (end piece)	2CCA183017R0001
1	ZLS905E30-3LN*	2CCA183111R0001	3/4*	-	ZLS201E38 (Copper rail)	2CCF800173R0001
1	ZLS905E38-3L	2CCA183118R0001	4	8	ZLS908	2CCA183030R0001
			1	6	ZLS906	2CCA183035R0001
			1	-	ZLS920 (end piece)	2CCA183017R0001
1	ZLS905E38-3LN*	2CCA183119R0001	3/4*	-	ZLS201E46 (Copper rail)	2CCF800177R0001
1	ZLS905E46-3L	2CCA183126R0001	5	8	ZLS908	2CCA183030R0001
			1	6	ZLS906	2CCA183035R0001
	ZLS905E46-3LN*	2CCA183127R0001	1	-	ZLS920 (end piece)	2CCA183017R0001
1	ZLS905E72-3L	2CCA183152R0001	9	8	ZLS908	2CCA183030R0001
			1	-	ZLS920 (end piece)	2CCA183017R0001
1	ZLS905E72-3LN*	2CCA183153R0001	3/4*	-	ZLS201E72 (Copper rail)	2CCF800190R0001

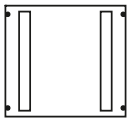
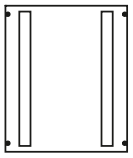
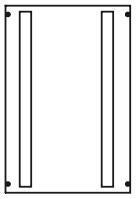
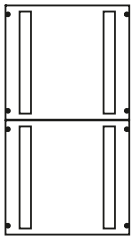
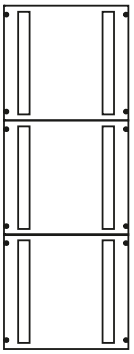
* For version with N (4-pole)

Information about planning

Additional starter kit with AB-bus bar on demand.

SMISSLINE TP plug-in system

Assignment of CombiLine modules

	Modules for cabinets from a cabinet depth of 215 mm	Modules for cabinets from a cabinet depth of 275 mm		Grid units	Socket base length
	Combination sets type	CombiLine mounted	CombiLine Flatpack	GU	SU
450 mm 	1 x ED203VS	1 x MC203VS	1 x MBC203VS	3 GU	2 x 22 SU
600 mm 	1 x ED204VS	1 x MC204VS 1 x MC304VS	1 x MBC204VS	4 GU	2 x 30 SU
750 mm 	1 x ED205VS	1 x MC205VS 1 x MC305VS	1 x MBC205VS 1 x MBC305VS	5 GU	2 x 38 SU
450 mm 450 mm 	2 x ED203VS	2 x MC203VS	2 x MBC203VS	6 GU	2 x 46 SU
450 mm 450 mm 450 mm 	3 x ED203VS	3 x MC203VS	3 x MBC203VS	9 GU	2 x 72 SU

Information about planning

When positioning incoming terminal blocks under cover joints, lower feed-in blocks ZLS228 or ZLS229 are to be used.

Vertical modules cannot be mounted directly on central support rails and horizontal cross members.

SMISSLINE TP plug-in system

Starter kit or socket base in individual parts

Socket base starter kit			Socket base in individual parts			
Unit	**Type**	**Order code**	**Unit**	**Space units**	**Type**	**Order code**
2	ZLS905E22-3L	2CCA183102R0001	4	8	ZLS908	2CCA183030R0001
			2	6	ZLS906	2CCA183035R0001
			2	-	ZLS920 (end piece)	2CCA183017R0001
2	ZLS905E22-3LN*	2CCA183103R0001	6/8*	-	ZLS201E22 (copper rail)	2CCF800165R0001
2	ZLS905E30-3L	2CCA183110R0001	6	8	ZLS908	2CCA183030R0001
			2	6	ZLS906	2CCA183035R0001
			2	-	ZLS920 (end piece)	2CCA183017R0001
2	ZLS905E30-3LN*	2CCA183111R0001	6/8*	-	ZLS201E30 (copper rail)	2CCF800169R0001
2	ZLS905E38-3L	2CCA183118R0001	8	8	ZLS908	2CCA183030R0001
			2	6	ZLS906	2CCA183035R0001
			2	-	ZLS920 (end piece)	2CCA183017R0001
2	ZLS905E38-3LN*	2CCA183119R0001	6/8*	-	ZLS201E38 (copper rail)	2CCF800173R0001
2	ZLS905E46-3L	2CCA183126R0001	10	8	ZLS908	2CCA183030R0001
			2	6	ZLS906	2CCA183035R0001
			2	-	ZLS920 (end piece)	2CCA183017R0001
2	ZLS905E46-3LN*	2CCA183127R0001	6/8*	-	ZLS201E46 (copper rail)	2CCF800177R0001
2	ZLS905E72-3L	2CCA183152R0001	18	8	ZLS908	2CCA183030R0001
			2	-	ZLS920 (end piece)	2CCA183017R0001
2	ZLS905E72-3LN*	2CCA183153R0001	6/8*	-	ZLS201E72 (copper rail)	2CCF800190R0001

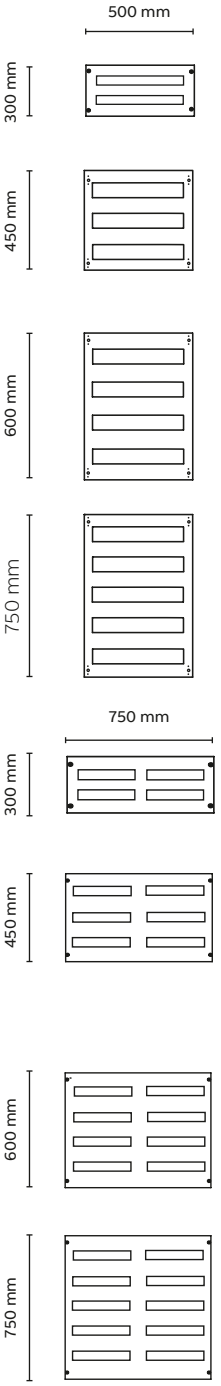
* For version with N (4-pole)

Information about planning

Additional starter kit with AB-bus bar on demand.

SMISSLINE TP plug-in system

Assignment of CombiLine modules



Modules for cabinets from a cabinet depth of 215 mm	Modules for cabinets from a cabinet depth of 215 mm		Grid units	Socket base length
Combination sets type	CombiLine mounted	CombiLine flatpack	GU	SU
–	1 x MC202HS	1 x MBC202HS	2 GU	2 x 22 SU
1 x ED203HS	1 x MC203HS	1 x MBC203HS	3 GU	3 x 22 SU
1 x ED204HS	1 x MC204HS	1 x MBC204HS	4 GU	4 x 22 SU
1 x ED205HS	1 x MC205HS	1 x MBC205HS	5 GU	5 x 22 SU
–	1 x MC302HS	1 x MBC302HS	2 GU	2 x 36 SU
1 x ED303HS	1 x MC3032HS	1 x MBC303HS	3 GU	3 x 36 SU
1 x ED304HS	1 x MC304HS	1 x MBC304HS	4 GU	4 x 36 SU
1 x ED305HS	1 x MC305HS	1 x MBC305HS	5 GU	5 x 36 SU

Information about planning

For modules of 3 panel width the incoming terminal block serves as centre supply.

SMISSLINE TP plug-in system

Starter kit or socket base in individual parts

Socket base starter kit			Socket base in individual parts			
Unit	**Type**	**Order code**	**Unit**	**Space units**	**Type**	**Order code**
2	ZLS905E22-3L	2CCA183102R0001	4	8	ZLS908	2CCA183030R0001
			2	6	ZLS906	2CCA183035R0001
			2	-	ZLS920 (end piece)	2CCA183017R0001
2	ZLS905E22-3LN*	2CCA183103R0001	6/8*	-	ZLS201E22 (copper rail)	2CCF800165R0001
3	ZLS905E22-3L	2CCA183102R0001	6	8	ZLS908	2CCA183030R0001
			3	6	ZLS906	2CCA183035R0001
			3	-	ZLS920 (end piece)	2CCA183017R0001
3	ZLS905E22-3LN*	2CCA183103R0001	9/12*	-	ZLS201E22 (copper rail)	2CCF800165R0001
4	ZLS905E22-3L	2CCA183102R0001	8	8	ZLS908	2CCA183030R0001
			4	6	ZLS906	2CCA183035R0001
			4		ZLS920 (end piece)	2CCA183017R0001
4	ZLS905E22-3LN*	2CCA183103R0001	12/16*		ZLS201E22 (copper rail)	2CCF800165R0001
5	ZLS905E22-3L	2CCA183102R0001	10	8	ZLS908	2CCA183030R0001
			5	6	ZLS906	2CCA183035R0001
			5	-	ZLS920 (end piece)	2CCA183017R0001
5	ZLS905E22-3LN*	2CCA183103R0001	15/20*	-	ZLS201E22 (copper rail)	2CCF800165R0001
2	ZLS905E36-3L	2CCA183116R0001	6	8	ZLS908	2CCA183030R0001
			4	6	ZLS906	2CCA183035R0001
			2	-	ZLS920 (end piece)	2CCA183017R0001
2	ZLS905E36-3LN*	2CCA183117R0001	6/8*	-	ZLS201E36 (copper rail)	2CCF800172R0001
3	ZLS905E36-3L	2CCA183116R000	9	8	ZLS908	2CCA183030R0001
			6	6	ZLS906	2CCA183035R0001
			3	-	ZLS920 (end piece)	2CCA183017R0001
3	ZLS905E36-3LN*	2CCA183117R0001	9/12*	-	ZLS201E36 (copper rail)	2CCF800172R0001
4	ZLS905E36-3L	2CCA183116R000	12	8	ZLS908	2CCA183030R0001
			8	6	ZLS906	2CCA183035R0001
			4	-	ZLS920 (end piece)	2CCA183017R0001
4	ZLS905E36-3LN*	2CCA183117R0001	12/16*	-	ZLS201E36 (copper rail)	2CCF800172R0001
5	ZLS905E36-3L	2CCA183116R000	15	8	ZLS908	2CCA183030R0001
			10	6	ZLS906	2CCA183035R0001
			5	-	ZLS920 (end piece)	2CCA183017R0001
5	ZLS905E36-3LN*	2CCA183117R0001	15/20*	-	ZLS201E36 (copper rail)	2CCF800172R0001

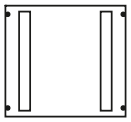
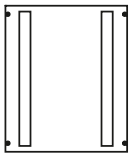
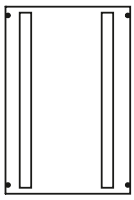
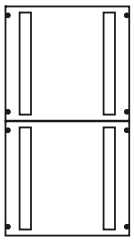
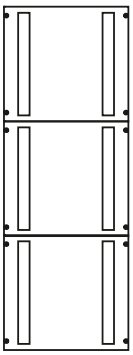
* For version with N (4-pole)

Information about planning

Additional starter kit with AB-bus bar on demand.

SMISSLINE TP plug-in system

Assignment of CombiLine modules

	Modules for cabinets from a cabinet depth of 215 mm	Modules for cabinets from a cabinet depth of 275 mm		Grid units	Socket base length
	Combination sets type	CombiLine mounted	CombiLine Flatpack	GU	SU
450 mm 	1 x ED203VS	1 x MC203VS	1 x MBC203VS	3 GU	2 x 22 SU
600 mm 	1 x ED204VS	1 x MC204VS 1 x MC304VS	1 x MBC204VS	4 GU	2 x 30 SU
750 mm 	1 x ED205VS	1 x MC205VS 1 x MC305VS	1 x MBC205VS 1 x MBC305VS	5 GU	2 x 38 SU
450 mm 450 mm 	2 x ED203VS	2 x MC203VS	2 x MBC203VS	6 GU	2 x 46 SU
450 mm 450 mm 450 mm 	3 x ED203VS	3 x MC203VS	3 x MBC203VS	9 GU	2 x 72 SU

Information about planning

When positioning incoming terminal blocks under cover joints, lower feed-in blocks ZLS228 or ZLS229 are to be used.

Vertical modules cannot be mounted directly on central support rails and horizontal cross members.

SMISSLINE TP plug-in system

Starter kit or socket base in individual parts

Socket base starter kit			Socket base in individual parts			
Unit	**Type**	**Order code**	**Unit**	**Space units**	**Type**	**Order code**
	-	-	-	-	-	-
			-	-	-	-
			-	-	-	-
	-	-	-	-	-	-
2	ZLSP950E30-3L	2CCF212200A0001	6	8	ZLSP908	2CCF212052A0001
			2	6	ZLSP906	2CCF212053A0001
			2	-	ZLSP920	2CCF212082A0001 socket
2	ZLS905E30-3LN*	2CCF212300A0001	6/8*	-	ZLSP1250E30	2CCF212100M0030
2	ZLSP950E38-3L	2CCF212204A0001	8	8	ZLSP908	2CCF212052A0001
			2	6	ZLSP906	2CCF212053A0001
			2	-	ZLSP920	2CCF212082A0001 socket
2	ZLSP950E38-3LN*	2CCF212304A0001	6/8*	-	ZLSP1250E38	2CCF212100M0038
2	ZLSP950E46-3L	2CCF212208A0001	10	8	ZLSP908	2CCF212052A0001
			2	6	ZLSP906	2CCF212053A0001
			2	-	ZLSP920	2CCF212082A0001 socket
2	ZLSP950E46-3LN*	2CCF212308A0001	6/8*	-	ZLSP1250E46	2CCF212100M0046
2	ZLSP950E72-3L	2CCF212221A0001	18	8	ZLSP908	2CCF212052A0001
			2	-	ZLSP906	2CCF212053A0001
2	ZLSP950E72-3LN*	2CCF212321A0001	6/8*	-	ZLSP920	2CCF212082A0001 socket
				-	ZLSP1250E72	2CCF212100M0072

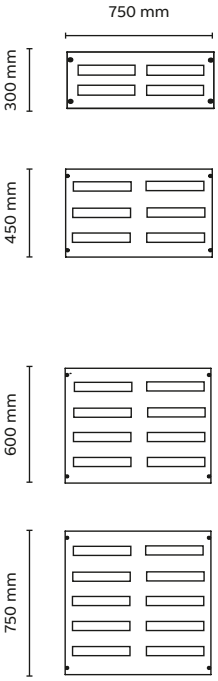
* For version with N (4-pole)

Information about planning

Additional starter kit with AB-bus bar on demand.

SMISSLINE TP plug-in system

Assignment of CombiLine modules



Modules for cabinets from a cabinet depth of 215 mm	Modules for cabinets from a cabinet depth of 215 mm		Grid units	Socket base length
Combination sets type	CombiLine mounted	CombiLine kit	GU	SU
–	1 x MC302HS	1 x MBC302HS	2 GU	2 x 36 SU
1 x ED303HS	1 x MC3032HS	1 x MBC303HS	3 GU	3 x 36 SU
1 x ED304HS	1 x MC304HS	1 x MBC304HS	4 GU	4 x 36 SU
1 x ED305HS	1 x MC305HS	1 x MBC305HS	5 GU	5 x 36 SU

Information about planning

For modules of 3 panel width the incoming terminal block serves as centre supply.

SMISSLINE TP plug-in system

Starter kit or socket base in individual parts

Socket base starter kit			Socket base in individual parts			
Unit	**Type**	**Order code**	**Unit**	**Space units**	**Type**	**Order code**
2	ZLSP950E36-3L	2CCF212203A0001	6	8	ZLSP908	2CCF212052A0001
			4	6	ZLSP906	2CCF212053A0001
			2	-	ZLSP920	2CCF212082A0001 socket
2	ZLSP950E36-3LN*	2CCF212303A0001	6/8*	-	ZLSP1250E36	2CCF212100M0036
3	ZLSP950E36-3L	2CCF212203A0001	9	8	ZLSP908	2CCF212052A0001
			6	6	ZLSP906	2CCF212053A0001
			3	-	ZLSP920	2CCF212082A0001 socket
3	ZLS905E36-3LN*	2CCF212303A0001	9/12*	-	ZLSP1250E36	2CCF212100M0036
4	ZLSP950E36-3L	2CCF212203A0001	12	8	ZLSP908	2CCF212052A0001
			8	6	ZLSP906	2CCF212053A0001
			4	-	ZLSP920	2CCF212082A0001 socket
4	ZLSP950E36-3LN*	2CCF212303A0001	12/16*	-	ZLSP1250E36	2CCF212100M0036
5	ZLSP950E36-3L	2CCF212203A0001	15	8	ZLSP908	2CCF212052A0001
			10	6	ZLSP906	2CCF212053A0001
			5	-	ZLSP920	2CCF212082A0001 socket
5	ZLSP950E36-3LN*	2CCF212303A0001	15/20*	-	ZLSP1250E36	2CCF212100M0036

* For version with N (4-pole)

Information about planning

Additional starter kit with AB-bus bar on demand.

Notes

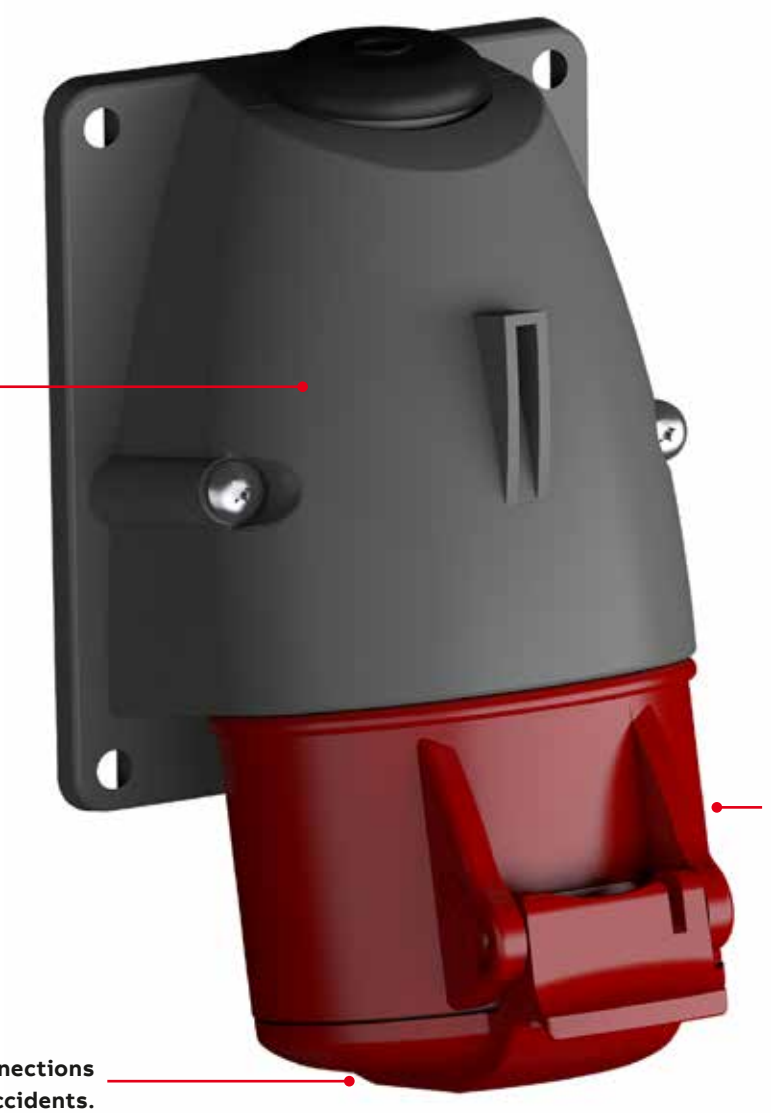
Electrical installation solutions for buildings
Industrial plugs and sockets

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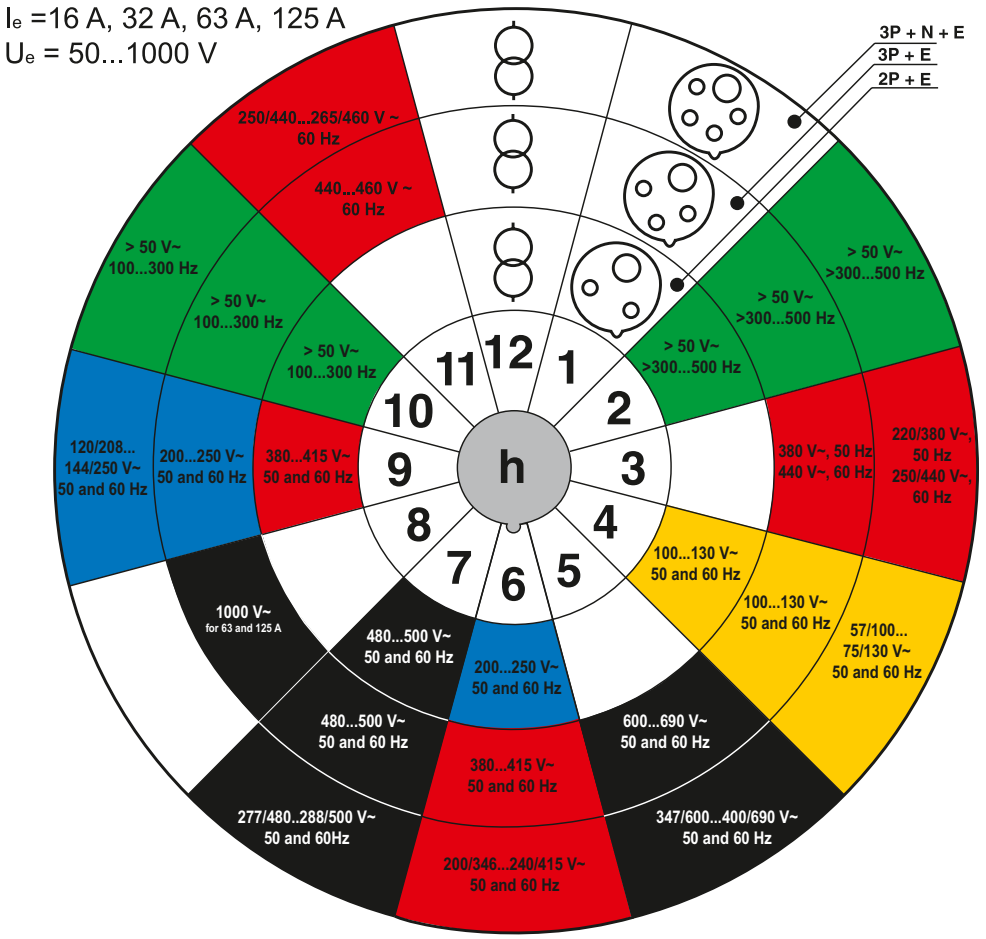
Industrial plugs and sockets

Reliable, durable and safe. Perfect for your application

These products are used for connection of equipment in all kind of applications where it needs to be possible to connect and disconnect. ABB industrial plugs and sockets are chosen when safety, reliability and durability is requested.



Industrial plugs and sockets
IEC 60309-2 “clock”



Standard voltages - Color codes according to IEC60309-1, -2

Position of earthing sleeve according to IEC 60309-2 (clock)	2P+E	3P+E	3P+N+E
1	☐ Optional voltage (not stated below)	☐ Optional voltage (not stated below)	☐ Optional voltage (not stated below)
2	■ > 50 V~ >300...500 Hz	■ > 50 V~ >300...500 Hz	■ > 50 V~ >300...500 Hz
3	☐ Not used	■ 380 V~ 50 Hz, 440 V 60 Hz	■ 220/380 V~ 50 Hz, 250/440 V 60 Hz
4	■ 100...130 V~ 50 and 60 Hz	■ 100...130 V~ 50 and 60 Hz	■ 57/100...75/130 V~ 50 and 60 Hz
5	☐ Not used	■ 600...690 V~ 50 and 60 Hz	■ 347/600...400/690 V~ 50 and 60 Hz
6	■ 200...250 V~ 50 and 60 Hz	■ 380...415 V~ 50 and 60 Hz	■ 200/346...240/415 V~ 50 and 60 Hz
7	■ 480...500 V~ 50 and 60 Hz	■ 480...500 V~ 50 and 60 Hz	■ 277/480...288/500 V~ 50 and 60 Hz
8	☐ Not used	■ 1000 V~ (for 63 A and 125 A)	☐ Not used
9	■ 380...415 V~ 50 and 60 Hz	■ 200...250 V~ 50 and 60 Hz	■ 120/208...144/250 V~ 50 and 60 Hz
10	■ > 50 V~ 100...300 Hz	■ > 50 V~ 100...300 Hz	■ > 50 V~100...300 Hz
11 Mainly for marine installations	☐ Not used	■ 440...460 V~ 60 Hz	■ 250/440...265/460 V~ 60 Hz
12 Supply from isolating transformer	☐ Supply from isolating transformer	☐ Supply from isolating transformer	☐ Supply from isolating transformer

Industrial plugs and sockets
A perfect choice

Industrial plugs and sockets are a part of the comprehensive ABB program of high quality low voltage products for industries, buildings and OEM´s.

ABB has manufactured industrial plugs and sockets for over 60 years.
Long experience of developing and manufacturing plugs and sockets within ABB has resulted in a wide product range of high quality and a robust ergonomic design. Covering products up to 125 A and 690 V, all tested and approved for IEC standards.

The design and material used have continuously been improved to meet the customer's requirements, and to take the environmental aspects into consideration.

ABB´s industrial plugs and sockets have the solution for products in industrial environments with high demands on safety, durability, reliability and cost saving for the end user.

- Safety - tested and approved
- Durability - materials used give a high durability in tough conditions and environments.
- Reliability - high quality contacts ensure reliability.
- Cost saving - designed for quick and easy installation.

You will find all you need in ABB´s industrial plugs and sockets product range. One supplier for all your needs and worldwide availability.

Perfect performance
ABB´s plugs and sockets comply with the high quality standards requested when there is a demand for reliability and safety. Some are made of heavy-duty plastics (PBT), others of metal. Some have advanced fea tures while others have a straight forward functionality. Perfect for demanding customers.

Perfect productivity
The reliability of our plugs and sockets will help you maintain high up-time in operations. No unscheduled or unwanted interruptions, allowing you a high degree of flexibility.

Perfect safety
Safety is also very important. By choosing ABB´s plugs and sockets you minimize the risk of short circuits. You also ensure maximum personal safety for anyone nearby or around your equipment.

Perfect for the job
Different applications and environments require different products. To make your choice of products easier, we have categorized our range into four groups. All groups have however one feature in common - Safety

- CRITICAL & SAFE — Select Critical & Safe products for the highest safety in fixed installations.
- TOUGH & SAFE — Select Tough & Safe products for best performance in demanding and heavy-duty applications.
- EASY & SAFE — Select Easy & Safe products for adequate functionality and ergonomic design.
- FAST & SAFE — Select Fast & Safe products for the fastest installation.

The structure of our main catalog is based on these four groups. Look for the three different symbols to make your choice.

ABB´s industrial plugs and sockets – a complete offer

- Approved according to IEC 60 309-1, -2, -4
- Range from 16 A up to 125 A.
- IP44 (splashproof) and IP67 (watertight).
- All contacts are self cleaning and calibrated, to maintain the accurate contact pressure, quality and performance over time.
- Plugs and sockets for 63 A and 125 A have pins and sleeves carriers in glass fiber reinforced polyamide.
- For devices in the Critical & Safe and Tough & Safe range, all external screws are made of stainless steel.
- Clear terminal markings inside and at the front of the devices.
- Switched interlocked socket-outlets for vertical or horizontal mounting.

Pilot contact

For optimum safety some 63A and 125A products are equipped with a pilot contact according to IEC 60 309-1 and -2.

Then the pilot pin and sleeve are shorter than the other connecting pins and sleeves. This means that the ”pilot circuit” breaks before and connects after the main circuit. The maximum connection area is 4 mm^2.





Industrial plugs and sockets
Easy & Safe

Plugs



Type EP...
16 A...32 A, IP44



Type EP...W
16A...32 A, IP67

Connectors



Type EC...
16 A...32 A, IP44



Type EC...W
16 A...32 A, IP67

Inlets



For wall mounting, Type BS...
16 A...32 A, IP44



For wall mounting, Type EBS...W
16 A...32 A, IP67



For panel mounting with unified straight flange, Type ...BU...
16A...32 A, IP44



For panel mounting with unified straight flange, Type EBU...W
16 A...32 A, IP67

Socket outlet



For wall mounting, Type RS...
16A...32 A, IP44



For wall mounting, Type ERS...W
16 A...32A, IP67



For panel mounting with unified straight flange, Type RU...
16 A...32 A, IP44



For panel mounting with unified angled flange, Type RAU...
16 A...32A, IP44



For panel mounting with minimized straight flange, Type R...
16 A...32 A, IP44



For panel mounting with minimized angled flange, Type RAM...
16 A...32A, IP44



For panel mounting with unified straight flange, Type ERU...W
16 A...32A, IP67



For wall mounting, Type ERT, 16 ...63A, IP44



Industrial plugs and sockets
Easy & Safe

Our new industrial plugs and sockets complements ABB's strong low-voltage offer. These plugs and sockets are part of Easy & Safe. Easy & Safe is a product range suitable for general use in most applications.

In most installations, industrial plugs and sockets are part of the exterior, for that reason it was important to have an attractive design. The modern design and the strong ABB brand add value to each installation or OEM equipment.

Protect your contacts with new Easy & Safe IP67
The biggest addition in this series is the new designed products with IP67 ingress protection. IP67 is a protection class that guarantees water and dust tightness. Although water or dust rarely occurs in some applications, the liquids or dirt may get into the contacting surfaces during the products lifetime, which will affect the contacts performance. This in turn can lead to overheating, burnt contacts and need of replacing plugs and sockets.
Worst case scenario is that fluids or dust reaches the contact parts, which in turn can lead to accidents with injuries and damage the connected equipment.

Electrical contacts protected against liquids and dirt retains its performance over time. High contact performance means reliability, reducing downtime and lowers maintenance costs. Contact parts of ABB's connectors are manufactured with high precision from solid brass. The innovative design means that the contacts seem self-cleaning during connection and disconnection while keeping the contact area free from arcing.

Next generation of IP44 plugs and connectors
Some features of the new IP67 products are also implemented in the IP44 plugs and connectors. With the new cable gland we get improved sealing and strain relief, it also functions with a wider span of cables. We have also implemented the new family design of ABB Industrial plugs and sockets.

Applications
New Easy & Safe series is an excellent choice in most applications where high reliability and safety are required. For example

- Data centers
- Industrial applications
- Food and beverage industries
- Infrastructure applications
- Construction sites
- Mines
- Marine applications connection of reefer containers

For tough applications with specific requirements for UV resistance, chemical resistance, mechanical resistance, our Tough & Safe series is still the best option.



Plugs
IP44

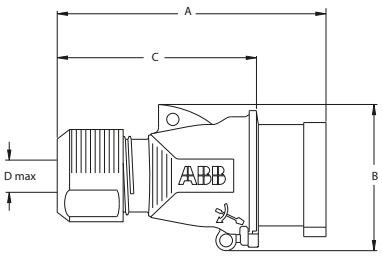
EASY & SAFE



216EP6

16 A. Splashproof
Housing in plastic (PA). Cable entry with compression gland. Cable area 1...2.5 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	216EP1	2CMA101943R1000	10	0.11
		Green	> 50 V~	>300...500	216EP2	2CMA101944R1000		
		Yellow	100...130	50 and 60	216EP4	2CMA101946R1000		
		Blue	200...250		216EP6	2CMA101947R1000		
		Red	380...415		216EP9	2CMA101948R1000		
		Grey	transf		216EP12	2CMA101950R1000		
3P+E								
4		Grey		AC	316EP1	2CMA101951R1000	10	0.16
		Green	> 50 V~	>300...500	316EP2	2CMA101952R1000		
		Red	380/440	50/60	316EP3	2CMA101953R1000		
		Yellow	100...130	50 and 60	316EP4	2CMA101954R1000		
		Black	600...690		316EP5	2CMA101955R1000		
		Red	380...415		316EP6	2CMA101956R1000		
		Black	480...500		316EP7	2CMA101957R1000		
		Blue	200...250		316EP9	2CMA101958R1000		
		Green	100...300	>50	316EP10	2CMA101959R1000		
		Red	440...460	60	316EP11	2CMA101960R1000		
		Grey	transf	50 and 60	316EP12	2CMA101961R1000		
3P+N+E								
5		Grey		AC	416EP1	2CMA101962R1000	10	0.18
		Green	> 50 V~	>300...500	416EP2	2CMA101963R1000		
		Red	380...440	50/60	416EP3	2CMA101964R1000		
		Yellow	100...130	50 and 60	416EP4	2CMA101965R1000		
		Black	600...690		416EP5	2CMA101966R1000		
		Red	346...415		416EP6	2CMA101967R1000		
		Black	480...500		416EP7	2CMA101968R1000		
		Blue	208...250		416EP9	2CMA101969R1000		
		Red	440...460	60	416EP11	2CMA101970R1000		



Dimensions (mm)

Type	A	B	C	Dmax
216EP...	127	62.5	88.5	14
316EP...	144	74.5	106	17
416EP...	144	78	106	17

Plugs
IP44

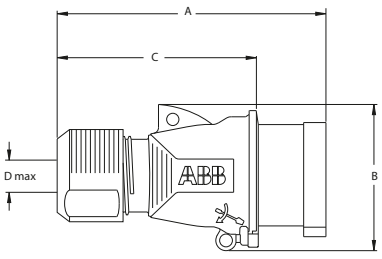
EASY & SAFE



432EP6

32 A. Splashproof
Housing in plastic (PA). Cable entry with compression gland. Cable area 2.5...6 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Grey		AC	232EP1	2CMA101971R1000	10	0.21
	Green	> 50 V~	>300...500	232EP2	2CMA101972R1000		
	Yellow	100...130	50 and 60	232EP4	2CMA101974R1000		
	Blue	200...250		232EP6	2CMA101975R1000		
	Red	380...415		232EP9	2CMA101976R1000		
	Grey	transf		232EP12	2CMA101978R1000		
3P+E							
4	Grey		AC	332EP1	2CMA101979R1000	10	0.23
	Green	> 50 V~	>300...500	332EP2	2CMA101980R1000		
	Red	380/440	50/60	332EP3	2CMA101981R1000		
	Yellow	100...130	50 and 60	332EP4	2CMA101982R1000		
	Black	600...690		332EP5	2CMA101983R1000		
	Red	380...415		332EP6	2CMA101984R1000		
	Black	480...500		332EP7	2CMA101985R1000		
	Blue	200...250		332EP9	2CMA101986R1000		
	Green	> 50 V~	100...300	332EP10	2CMA101987R1000		
	Red	440...460	60	332EP11	2CMA101988R1000		
	Grey	transf	50 and 60	332EP12	2CMA101989R1000		
3P+N+E							
5	Grey		AC	432EP1	2CMA101990R1000	10	0.24
	Green	> 50 V~	>300...500	432EP2	2CMA101991R1000		
	Red	380...440	50/60	432EP3	2CMA101992R1000		
	Yellow	100...130	50 and 60	432EP4	2CMA101993R1000		
	Black	600...690		432EP5	2CMA101994R1000		
	Red	346...415		432EP6	2CMA101995R1000		
	Black	480...500		432EP7	2CMA101996R1000		
	Blue	208...250		432EP9	2CMA101997R1000		
	Red	440...460	60	432EP11	2CMA101998R1000		



Dimensions (mm)

Type	A	B	C	Dmax
232EP...	167	82.5	121	22
332EP...	167	82.5	121	22
432EP...	167	87.5	121	22

Connectors

IP44

EASY & SAFE

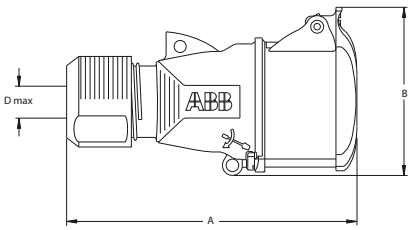


216EC6

16 A. Splashproof

Housing in plastic (PA). Cable entry with compression gland. Cable area 1...2.5 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	216EC1	2CMA101999R1000	10	0.16
		Green	> 50 V~	>300...500	216EC2	2CMA102000R1000		
		Yellow	100...130	50 and 60	216EC4	2CMA102002R1000		
		Blue	200...250		216EC6	2CMA102003R1000		
		Red	380...415		216EC9	2CMA102004R1000		
		Grey	transf		216EC12	2CMA102006R1000		
3P+E								
4		Grey		AC	316EC1	2CMA102007R1000	10	0.21
		Green	> 50 V~	>300...500	316EC2	2CMA102008R1000		
		Red	380/440	50/60	316EC3	2CMA102009R1000		
		Yellow	100...130	50 and 60	316EC4	2CMA102010R1000		
		Black	600...690		316EC5	2CMA102011R1000		
		Red	380...415		316EC6	2CMA102012R1000		
		Black	480...500		316EC7	2CMA102013R1000		
		Blue	200...250		316EC9	2CMA102014R1000		
		Green	> 50 V~	100...300	316EC10	2CMA102015R1000		
		Red	440...460	60	316EC11	2CMA102016R1000		
		Grey	transf	50 and 60	316EC12	2CMA102017R1000		
3P+N+E								
5		Grey		AC	416EC1	2CMA102018R1000	10	0.23
		Green	> 50 V~	>300...500	416EC2	2CMA102019R1000		
		Red	380...440	50/60	416EC3	2CMA102020R1000		
		Yellow	100...130	50 and 60	416EC4	2CMA102021R1000		
		Black	600...690		416EC5	2CMA102022R1000		
		Red	346...415		416EC6	2CMA102023R1000		
		Black	480...500		416EC7	2CMA102024R1000		
		Blue	208...250		416EC9	2CMA102025R1000		
		Red	440...460	60	416EC11	2CMA102026R1000		



Dimensions (mm)

Type	A	B	Dmax
216EC...	135.5	74.5	14
316EC...	155	87	17
416EC...	156	90.5	17

Connectors

IP44

EASY & SAFE

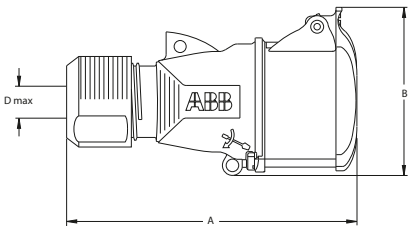


232EC9

32 A. Splashproof

Housing in plastic (PA). Cable entry with compression gland. Cable area 2.5...6 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	232EC1	2CMA102027R1000	10	0.26
		Green	> 50 V~	>300...500	232EC2	2CMA102028R1000		
		Yellow	100...130	50 and 60	232EC4	2CMA102030R1000		
		Blue	200...250		232EC6	2CMA102031R1000		
		Red	380...415		232EC9	2CMA102032R1000		
		Grey	transf		232EC12	2CMA102034R1000		
3P+E								
4		Grey		AC	332EC1	2CMA102035R1000	10	0.28
		Green	> 50 V~	>300...500	332EC2	2CMA102036R1000		
		Red	380/440	50/60	332EC3	2CMA102037R1000		
		Yellow	100...130	50 and 60	332EC4	2CMA102038R1000		
		Black	600...690		332EC5	2CMA102039R1000		
		Red	380...415		332EC6	2CMA102040R1000		
		Black	480...500		332EC7	2CMA102041R1000		
		Blue	200...250		332EC9	2CMA102042R1000		
		Green	> 50 V~	100...300	332EC10	2CMA102043R1000		
		Red	440...460	60	332EC11	2CMA102044R1000		
		Grey	transf	50 and 60	332EC12	2CMA102045R1000		
3P+N+E								
5		Grey		AC	432EC1	2CMA102046R1000	10	0.30
		Green	> 50 V~	>300...500	432EC2	2CMA102047R1000		
		Red	380...440	50/60	432EC3	2CMA102048R1000		
		Yellow	100...130	50 and 60	432EC4	2CMA102049R1000		
		Black	600...690		432EC5	2CMA102050R1000		
		Red	346...415		432EC6	2CMA102051R1000		
		Black	480...500		432EC7	2CMA102052R1000		
		Blue	208...250		432EC9	2CMA102053R1000		
		Red	440...460	60	432EC11	2CMA102054R1000		



Dimensions (mm)

Type	A	B	Dmax
232EC...	182	93.5	22
332EC...	182	93.5	22
432EC...	182.5	99	22

Inlets

for wall mounting, IP44

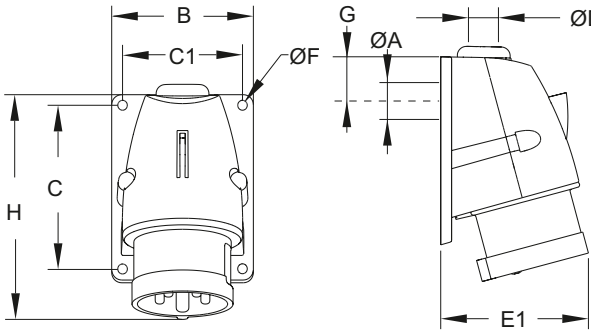
EASY & SAFE



416BS9

16 A. Splashproof
Housing in plastic (PA). Flexible membrane and metric threaded M20 insert for top cable entry.
Rear knock-out cable entry. Cable area 1...2.5 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	216BS1	2CMA193293R1000	10	0.15
		Yellow	100...130	50 and 60	216BS4	2CMA193289R1000		
		Blue	200...250		216BS6	2CMA193290R1000		
		Red	380...415		216BS9	2CMA193291R1000		
		Grey	transf.		216BS12	2CMA193292R1000		
3P+E								
4		Grey		AC	316BS1	2CMA193303R1000	10	0.19
		Yellow	100...130	50 and 60	316BS4	2CMA193296R1000		
		Black	600...690		316BS5	2CMA193297R1000		
		Red	380...415		316BS6	2CMA193298R1000		
		Black	480...500		316BS7	2CMA193299R1000		
		Blue	200...250		316BS9	2CMA193300R1000		
		Green	>50 V~	100...300	316BS10	2CMA193301R1000		
		Red	440...460	60	316BS11	2CMA193302R1000		
3P+N+E								
5		Grey		AC	416BS1	2CMA193311R1000	10	0.20
		Green	>50 V~	>300...500	416BS2	2CMA193304R1000		
		Black	600...690	50 and 60	416BS5	2CMA126699R1000		
		Red	346...415		416BS6	2CMA193307R1000		
		Blue	208...250		416BS9	2CMA193309R1000		
		Red	440...460	60	416BS11	2CMA193310R1000		



Dimensions (mm)

Type	A	B	C	C1	Dmax	E1	F	G	H
216BS..	23	66	75	54	18/M20	72	5.5	27	110
316BS..	23	79	91	67	18/M20	78	5.5	30	124
416BS..	23	79	91	67	18/M20	81	5.5	30	125

Inlets

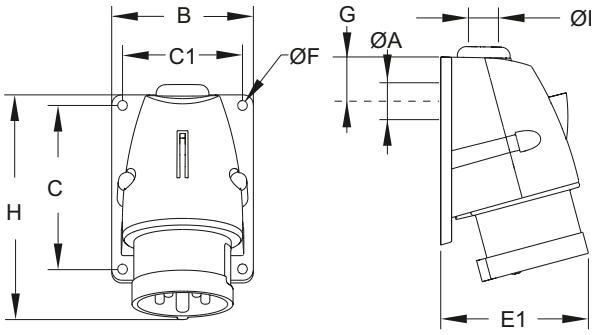
for wall mounting, IP44

EASY & SAFE



32 A. IP44. Splashproof
Housing in plastic (PA). Flexible membrane and metric threaded M25 insert for top cable entry.
Rear knock-out cable entry. Cable area 2.5...6 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
		Grey		AC	232BS1	2CMA193317R1000	10	0.25
		Yellow	100...130	50 and 60	232BS4	2CMA193313R1000		
		Blue	200...250		232BS6	2CMA193314R1000		
3		Red	380...415		232BS9	2CMA193315R1000		
3P+E								
4		Grey		AC	332BS1	2CMA193327R1000	10	0.27
		Red	380/440	50/60	332BS3	2CMA193319R1000		
		Yellow	100...130	50 and 60	332BS4	2CMA193320R1000		
		Black	600...690		332BS5	2CMA193321R1000		
		Red	380...415		332BS6	2CMA193322R1000		
		Black	480...500		332BS7	2CMA193323R1000		
		Blue	200...250		332BS9	2CMA193324R1000		
		Green	> 50 V~	100...300	332BS10	2CMA193325R1000		
		Red	440...460	60	332BS11	2CMA193326R1000		
3P+N+E								
5		Grey		AC	432BS1	2CMA193335R1000	10	0.29
		Black	600...690	50 and 60	432BS5	2CMA126700R1000		
		Red	346...415		432BS6	2CMA193331R1000		
		Black	480...500		432BS7	2CMA193332R1000		
		Blue	208...250		432BS9	2CMA193333R1000		



Dimensions (mm)

Type	A	B	C	C1	Dmax	E1	F	G	H
232BS..	29	85	111	72	22/M25	94	5.5	34	153
332BS..	29	85	111	72	22/M25	94	5.5	34	153
432BS..	29	85	111	72	22/M25	96	5.5	34	154

Inlets

for panel mounting with minimized or unified straight flange, IP44

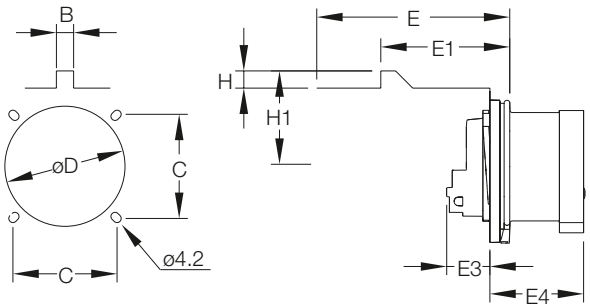
EASY & SAFE



216B6

16 A. Splashproof
Housing in plastic (PA). Minimized flange, Cable area 1...2.5 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	216B1	2CMA193341R1000	10	0.10
		Blue	200...250	50 and 60	216B6	2CMA193338R1000		
3P+E								
4		Grey		AC	316B1	2CMA193351R1000	10	0.13
		Yellow	100...130	50 and 60	316B4	2CMA100187R1000		
		Black	600...690		316B5	2CMA193345R1000		
		Red	380...415		316B6	2CMA193346R1000		
		Blue	200...250		316B9	2CMA193348R1000		
3P+N+E								
5		Grey		AC	416B1	2CMA193359R1000	10	0.14
		Red	346...415	50 and 60	416B6	2CMA193355R1000		
		Blue	208...250		416B9	2CMA193357R1000		



Dimensions (mm)

Type	B	C	D	E	E1	E3	E4	H	H1
216B...	9	44-47	49	75	40.5	21.5	46.5	4	30.0
316B...	9	50-52	59	80	46.8	21.0	47.0	5	34.0
416B...	9	50-52	59	90	52.5	21.0	46.5	7	38.0

Inlets

for panel mounting with minimized or unified straight flange, IP44

EASY & SAFE



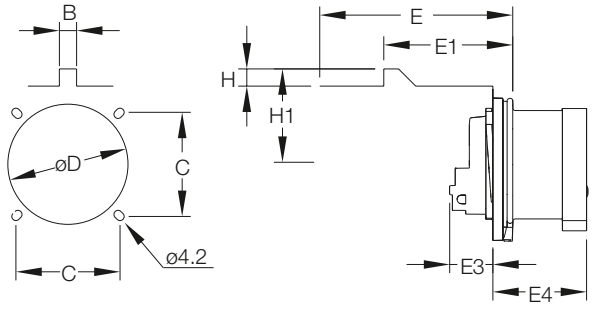
432BU6

16 A. IP44. Splashproof
Housing in plastic (PA). Unified flange, Cable area 1...2.5 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
3P+E							
4	Blue	200...250	50 and 60	316BU9	2CMA163824R1000	10	0.13
3P+N+E							
5	Black	600...690	50 and 60	416BU5	2CMA100235R1000	10	0.14
	Red	346...415		416BU6	2CMA193468R1000		

32 A. IP44. Splashproof
Housing in plastic (PA). Unified flange, Cable area 2.5...6 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Grey		AC	232BU1	2CMA193437R1000	10	0.15
	Blue	200...250	50 and 60	232BU6	2CMA193434R1000		
3P+E							
4	Grey		AC	332BU1	2CMA193447R1000	10	0.17
	Black	600...690	50 and 60	332BU5	2CMA193441R1000		
	Red	380...415		332BU6	2CMA193442R1000		
	Blue	200...250		332BU9	2CMA193444R1000		
3P+N+E							
5	Grey		AC	432BU1	2CMA193455R1000	10	0.19
	Red	346...415	50 and 60	432BU6	2CMA193451R1000		



Dimensions (mm)

Type	B	C	D	E	E1	E3	E4	H	H1
316BU...	9	60-61	59	90	52.5	21.0	46.5	7	38.0
416BU...	9	60-61	59	90	52.5	21.0	46.5	7	38.0
232BU...	9	60-61	66	90	53.5	24.5	55.5	7	40.0
332BU...	9	60-61	66	90	53.5	24.5	55.5	7	40.0
432BU...	9	60-61	66	105	59.5	25.0	55.5	8	45.0

Socket outlet

for wall mounting, IP44

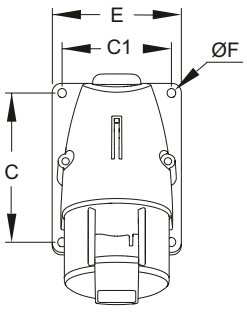
EASY & SAFE

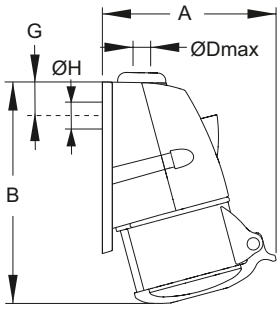


216RS6

16 A. Splashproof
Housing in plastic (PA). Flexible membrane and metric threaded M20 insert for top cable entry.
Rear knock-out cable entry. Cable area 1.5...4 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
	Grey		AC	216RS1	2CMA193101R1000	10	0.22
	Yellow	100...130	50 and 60	216RS4	2CMA193097R1000		
	Blue	200...250		216RS6	2CMA193098R1000		
	Red	380...415		216RS9	2CMA193099R1000		
3	Grey	transf.		216RS12	2CMA193100R1000		
3P+E							
4	Grey		AC	316RS1	2CMA193111R1000	10	0.24
	Yellow	100...130	50 and 60	316RS4	2CMA193104R1000		
	Black	600...690		316RS5	2CMA193105R1000		
	Red	380...415		316RS6	2CMA193106R1000		
	Black	480...500		316RS7	2CMA193107R1000		
	Blue	200...250		316RS9	2CMA193108R1000		
	Green	> 50 V~	100...300	316RS10	2CMA193109R1000		
	Red	440...460	60	316RS11	2CMA193110R1000		
	Grey	transf.	50 and 60	316RS12	2CMA170181R1000		
3P+N+E							
5	Grey		AC	416RS1	2CMA193119R1000	10	0.26
	Green	> 50 V~	300...500	416RS2	2CMA193112R1000		
	Black	600..690	50 and 60	416RS5	2CMA126666R1000		
	Red	346...415		416RS6	2CMA193115R1000		
	Blue	208...250		416RS9	2CMA193117R1000		
	Red	440...460	60	416RS11	2CMA193118R1000		





Dimensions (mm)

Type	A	B	C	C1	Dmax	E	F	G	H
216RS..	91	117	75	54	18/M20	66	5.5	27	23
316RS..	100	132	91	67	18/M20	79	5.5	30	23
416RS..	104	134	91	67	18/M20	79	5.5	30	23

Socket outlet

for wall mounting, IP44

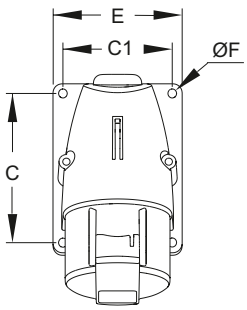
EASY & SAFE

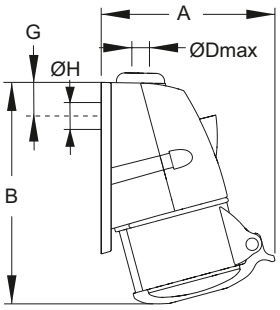


432RS6

32 A. Splashproof
Housing in plastic (PA). Flexible membrane and metric threaded M25 insert for top cable entry.
Rear knock-out cable entry. Cable area 2.5...10 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	232RS1	2CMA193125R1000	10	0.30
		Yellow	100...130	50 and 60	232RS4	2CMA193121R1000		
		Blue	200...250		232RS6	2CMA193122R1000		
		Red	380...415		232RS9	2CMA193123R1000		
3P+E								
4		Grey		AC	332RS1	2CMA193135R1000	10	0.32
		Red	380/440	50/60	332RS3	2CMA193127R1000		
		Yellow	100...130	50 and 60	332RS4	2CMA193128R1000		
		Black	600...690		332RS5	2CMA193129R1000		
		Red	380...415		332RS6	2CMA193130R1000		
		Black	480...500		332RS7	2CMA193131R1000		
		Blue	200...250		332RS9	2CMA193132R1000		
		Green	> 50 V~	100...300	332RS10	2CMA193133R1000		
		Red	440...460	60	332RS11	2CMA193134R1000		
3P+N+E								
5		Grey		AC	432RS1	2CMA193143R1000	10	0.34
		Black	600...690	50 and 60	432RS5	2CMA126667R1000		
		Red	346...415		432RS6	2CMA193139R1000		
		Black	480...500		432RS7	2CMA193140R1000		
		Blue	208...250		432RS9	2CMA193141R1000		





Dimensions (mm)

Type	A	B	C	C1	Dmax	E	F	G	H
232RS..	118	163	111	72	22/M25	85	5.5	34	29
332RS..	116	163	111	72	22/M25	85	5.5	34	29
432RS..	121	164	111	72	22/M25	85	5.5	34	29

Additional products and accessories

Surface socket outlet with schuko



CUE416-6+R/UJP

16A, IP44. Splashproof
Housing in plastic (PA). Socket outlet with 2 pole schuko. Cable area 1.5...4 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
3P+E							
5	Blue	200...250	50 and 60	CUE316-9+R/UJP	2CMA178363R1000	**10**	**0.34**
3P+N+E							
5	Red	400/230	50 and 60	CUE416-6+R/UJP	2CMA178301R1000	**10**	**0.34**



CUE416-6+R/FR16

16A, IP44. Splashproof
Housing in plastic (PA). Socket outlet with 2 pole schuko. Cable area 1.5...4 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
3P+N+E							
5	Red	400/230	50 and 60	CUE416-6+R/FR16*	2CMA101642R1000	**10**	**0.34**

*French Standard

16A, IP44. Splashproof
Housing in plastic (PA). Socket outlet with 2 pole schuko. Cable area 1.5...4 mm²

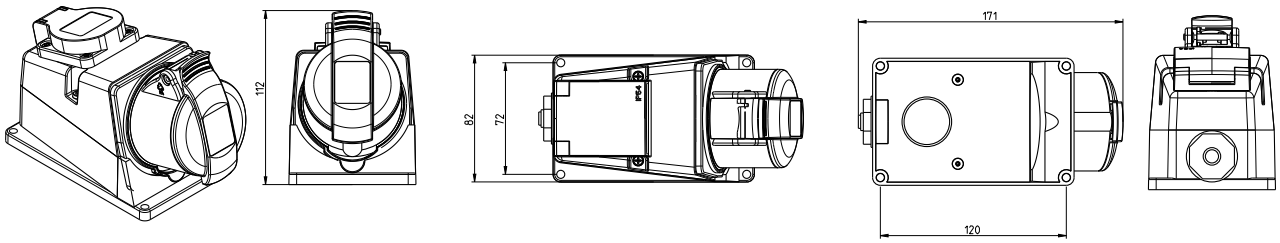
Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
3P+N+E							
5	Red	400/230	50 and 60	CUE416-6+R/BS13*	2CMA101635R1000	**10**	**0.34**

*British Standard

16A, IP44. Splashproof
Housing in plastic (PA). Socket outlet with 2 pole schuko. Cable area 1.5...4 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
3P+N+E							
5	Red	400/230	50 and 60	CUE 416-6+R/DK16A*	2CMA105921R1000	**10**	**0.34**

*Danish Standard



Socket outlet

for wall mounting, IP44

EASY & SAFE

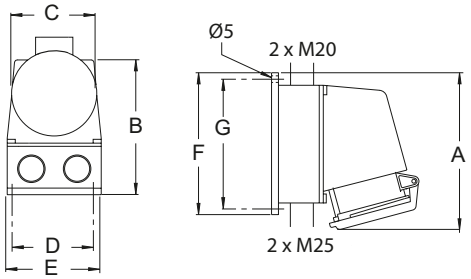


216ERT6

16 A. Watertight

Housing in plastic (PBT). Cable entry with knock-outs 2xM20 on bottom and 2xM25 on top. Cable area 1.5...4 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	216ERT1	2CMA101739R1000	1	0.36
		Green	> 50 V~	>300...500	216ERT2	2CMA101740R1000		
		Yellow	100...130	50 and 60	216ERT4	2CMA101719R1000		
		Blue	200...250		216ERT6	2CMA101742R1000		
		Grey	transf.		216ERT12	2CMA101743R1000		
3P+E								
4		Grey		AC	316ERT1	2CMA101744R1000	1	0.39
		Green	> 50 V~	>300...500	316ERT2	2CMA101745R1000		
		Yellow	100...130	50 and 60	316ERT4	2CMA101746R1000		
		Black	600...690		316ERT5	2CMA101747R1000		
		Red	380...415		316ERT6	2CMA101720R1000		
		Black	480...500		316ERT7	2CMA101748R1000		
		Blue	200...250		316ERT9	2CMA101721R1000		
		Green	> 50 V~	100...300	316ERT10	2CMA101749R1000		
		Red	440...460	60	316ERT11	2CMA101722R1000		
		Grey	transf.		316ERT12	2CMA101750R1000		
3P+N+E								
5		Grey		AC	416ERT1	2CMA101751R1000	10	0.41
		Green	> 50 V~	>300...500	416ERT2	2CMA101752R1000		
		Yellow	100...130	50 and 60	416ERT4	2CMA101753R1000		
		Red	346...415		416ERT6	2CMA101723R1000		
		Black	480...500		416ERT7	2CMA101754R1000		
		Blue	208...250		416ERT9	2CMA101755R1000		
		Red	440...460	60	416ERT11	2CMA101756R1000		



Dimensions (mm)

Type	A	B	C	D	E	F	6
216ERT...416ERT...	134	139	**82**	**71**	**80**	**120**	111

Socket outlet

for wall mounting, IP44

EASY & SAFE

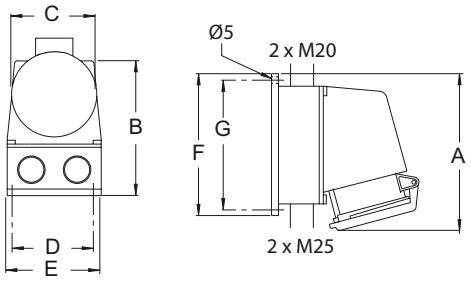


232ERT6

32 A. Splashproof

Housing in plastic (PBT). Cable entry with knock-outs 2xM25 on top and 2xM25 on bottom. Cable area 2.5...10 mm²

Terminals	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
	Green	>50	>300 ... 500	232ERT2	2CMA101757R1000	1	0.42
	Yellow	100 ... 130	50, 60	232ERT4	2CMA101759R1000		
	Blue	200 ... 250		232ERT6	2CMA101724R1000		
	Red	380 ... 415		232ERT9	2CMA101760R1000		
	Grey	Isol. Transformer		232ERT12	2CMA101761R1000		
3P+E							
	Green	>50	>300 ... 500	332ERT2	2CMA101762R1000	1	0.44
	Red	380/440	50/60	332ERT3	2CMA101763R1000		
	Yellow	100 ... 130		332ERT4	2CMA101764R1000		
	Black	600 ... 690		332ERT5	2CMA101765R1000		
	Red	380 ... 415		332ERT6	2CMA101725R1000		
	Black	480 ... 500		332ERT7	2CMA101766R1000		
	Blue	200 ... 250		332ERT9	2CMA101726R1000		
	Green	50 ... 600	100 ... 300	332ERT10	2CMA101767R1000		
	Red	440 ... 460	60	332ERT11	2CMA101768R1000		
	Grey	Isol. Transformer	50, 60	332ERT12	2CMA101769R1000		
3P+N+E							
	Green	>50	>300 ... 500	432ERT2	2CMA101770R1000	1	0.5
	Yellow	57/100 ... 75/130	50, 60	432ERT4	2CMA101771R1000		
	Red	200/346 ... 240/415		432ERT6	2CMA101727R1000		
	Black	277/480 ... 288/500		432ERT7	2CMA101772R1000		
	Blue	120/208 ... 144/250		432ERT9	2CMA101773R1000		
	Red	440 ... 460	60	432ERT11	2CMA101774R1000		



Dimensions (mm)

Type	A	B	C	D	E	F	6
232ERT... 432ERT	139	139	**82**	**71**	**80**	**121**	111
263ERT... 463ERT	225	186	**100**	**124**	**149**	**149**	129

Socket outlet

for wall mounting, IP44

EASY & SAFE

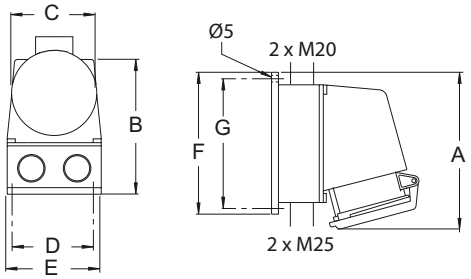


263ERT6

63 A. Splashproof

Housing in plastic (PBT). Cable entry with knock-outs 2 x M32/M40 + 1 x M20 on top. 1 x M20 + 1 x M32/M40 on bottom. Cable area 6...25 mm²

Terminals	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
	Yellow	100 ... 130	50, 60	263ERT4	2CMA101894R1000	1	1.4
	Blue	200 ... 250		263ERT6	2CMA101895R1000		
3P+E							
	Yellow	100 ... 130	50, 60	363ERT4	2CMA101888R1000	1	1.4
	Black	600 ... 690		363ERT5	2CMA101889R1000		
	Red	380 ... 415		363ERT6	2CMA101890R1000		
	Black	480 ... 500		363ERT7	2CMA101891R1000		
	Blue	200 ... 250		363ERT9	2CMA101892R1000		
	Red	440 ... 460	60	363ERT11	2CMA101893R1000		
3P+N+E							
	Yellow	57/100 ... 75/130	50, 60	463ERT4	2CMA101884R1000	1	1.45
	Red	200/346 ... 240/415		463ERT6	2CMA101885R1000		
	Blue	120/208 ... 144/250		463ERT9	2CMA101886R1000		
	Red	250/440 ... 265/460	60	463ERT11	2CMA101887R1000		



Dimensions (mm)

Type	A	B	C	D	E	F	6
232ERT... 432ERT	139	139	**82**	**71**	**80**	**121**	111
263ERT... 463ERT	225	186	**100**	**124**	**149**	**149**	129

Socket outlet

for panel mounting with unified straight flange, IP44

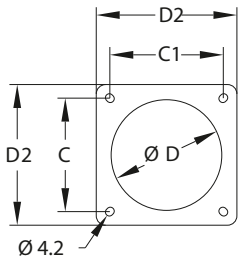
EASY & SAFE

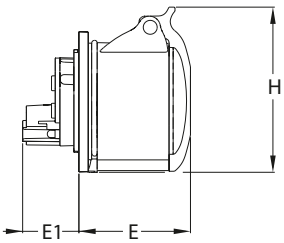


216RU6

16 A. Splashproof
Housing in plastic (PA). Cable area 1.5...4 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	216RU1	2CMA193173R1000	10	0.15
		Yellow	100...130	50 and 60	216RU4	2CMA193169R1000		
		Blue	200...250		216RU6	2CMA193170R1000		
		Red	380...415		216RU9	2CMA193171R1000		
		Grey	transf.		216RU12	2CMA193172R1000		
3P+E								
4		Grey		AC	316RU1	2CMA193183R1000	10	0.18
		Yellow	100...130	50 and 60	316RU4	2CMA193176R1000		
		Black	600...690		316RU5	2CMA193177R1000		
		Red	380...415		316RU6	2CMA193178R1000		
		Black	480...500		316RU7	2CMA193179R1000		
		Blue	200...250		316RU9	2CMA193180R1000		
		Green	> 50 V~	100...300	316RU10	2CMA193181R1000		
		Red	440...460	60	316RU11	2CMA193182R1000		
3P+N+E								
5		Grey		AC	416RU1	2CMA193191R1000	10	0.20
		Green	> 50 V~	>300...500	416RU2	2CMA193184R1000		
		Black	600...690	50 and 60	416RU5	2CMA126673R1000		
		Red	346...415		416RU6	2CMA193187R1000		
		Blue	208...250		416RU9	2CMA193189R1000		





Dimensions (mm)

Type	C	C1	D	D2	E	E1	H
216RU..	60-61	60-61	49	75	56	29	79
316RU..	60-61	60-61	59	75	58	30	87
416RU..	60-61	60-61	59	75	60	31	89

Socket outlet

for panel mounting with unified straight flange, IP44

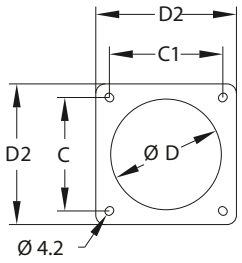
EASY & SAFE

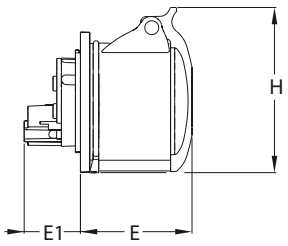


432RU6

32 A. Splashproof
Housing in plastic (PA). Cable area 2.5...10 mm²

Terminals/ Poles	Color code		Voltage V	Frequency Hz	Type	Order Code	Pkg qty	Weight pkg (1pce) kg
2P+E								
3		Grey		AC	232RU1	2CMA193245R1000	10	0.21
		Yellow	100...130	50 and 60	232RU4	2CMA193241R1000		
		Blue	200...250		232RU6	2CMA193242R1000		
3P+E								
4		Grey		AC	332RU1	2CMA193255R1000	10	0.22
		Black	600...690	50 and 60	332RU5	2CMA193249R1000		
		Red	380...415		332RU6	2CMA193250R1000		
		Black	480...500		332RU7	2CMA193251R1000		
		Blue	200...250		332RU9	2CMA193252R1000		
3P+N+E								
5		Grey		AC	432RU1	2CMA193263R1000	10	0.24
		Black	600...690	50 and 60	432RU5	2CMA126674R1000		
		Red	346...415		432RU6	2CMA193259R1000		
		Blue	208...250		432RU9	2CMA101699R1000		





Dimensions (mm)

Type	C	C1	D	D2	E	E1	H
232RU..	60-61	60-61	66	75	70	34	93
332RU..	60-61	60-61	66	75	70	34	93
432RU..	60-61	60-61	66	75	71	34	99

Socket outlet

for panel mounting with unified angled flange, IP44

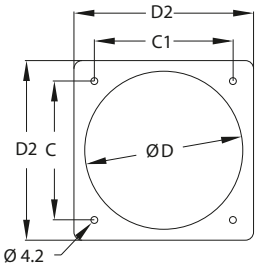
EASY & SAFE

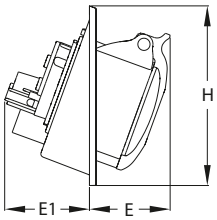


216RAU6

16 A. Splashproof
Housing in plastic (PA). Cable area 1.5...4 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	216RAU1	2CMA193221R1000	10	0.19
		Green	> 50 V~	>300...500	216RAU2	2CMA101342R1000		
		Yellow	100...130	50 and 60	216RAU4	2CMA193217R1000		
		Blue	200...250		216RAU6	2CMA193218R1000		
		Red	380...415		216RAU9	2CMA193219R1000		
		Grey	transf.		216RAU12	2CMA193220R1000		
3P+E								
4		Grey		AC	316RAU1	2CMA193231R1000	10	0.22
		Yellow	100...130	50 and 60	316RAU4	2CMA193224R1000		
		Black	600...690		316RAU5	2CMA193225R1000		
		Red	380...415		316RAU6	2CMA193226R1000		
		Black	480...500		316RAU7	2CMA193227R1000		
		Blue	200...250		316RAU9	2CMA193228R1000		
		Green	> 50 V~	>300...500	316RAU10	2CMA193229R1000		
		Red	440...460	60	316RAU11	2CMA193230R1000		
3P+N+E								
5		Grey		AC	416RAU1	2CMA193239R1000	10	0.24
		Green	> 50 V~	>300...500	416RAU2	2CMA193232R1000		
		Yellow	100...130	50 and 60	416RAU4	2CMA101343R1000		
		Black	600...690		416RAU5	2CMA126678R1000		
		Red	346...415		416RAU6	2CMA193235R1000		
		Blue	208...250		416RAU9	2CMA193237R1000		





Dimensions (mm)

Type	C	C1	D	D2	E	E1	H
216RAU..	85	85	98	110	48	48	110
316RAU..	85	85	98	110	50	48	110
416RAU..	85	85	98	110	51	50	110

Socket outlet

for panel mounting with unified angled flange, IP44

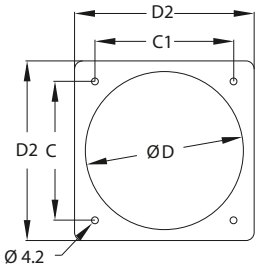
EASY & SAFE

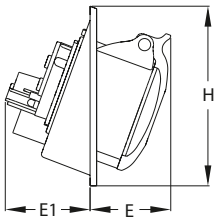


432RAU6

32 A. Splashproof
Housing in plastic (PA). Cable area 2.5...10 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	232RAU1	2CMA193269R1000	10	0.25
		Yellow	100...130	50 and 60	232RAU4	2CMA193265R1000		
		Blue	200...250		232RAU6	2CMA193266R1000		
3P+E								
4		Grey		AC	332RAU1	2CMA193279R1000	10	0.26
		Black	600...690	50 and 60	332RAU5	2CMA193273R1000		
		Red	380...415		332RAU6	2CMA193274R1000		
		Black	480...500		332RAU7	2CMA193275R1000		
		Blue	200...250		332RAU9	2CMA193276R1000		
3P+N+E								
5		Grey		AC	432RAU1	2CMA193287R1000	10	0.28
		Black	600...690	50 and 60	432RAU5	2CMA126679R1000		
		Red	346...415		432RAU6	2CMA193283R1000		





Dimensions (mm)

Type	C	C1	D	D2	E	E1	H
232RAU...	85	85	98	110	61	53	110
332RAU...	85	85	98	110	61	53	110
432RAU...	85	85	98	110	63	54	110

Socket outlet

for panel mounting with minimized straight flange, IP44

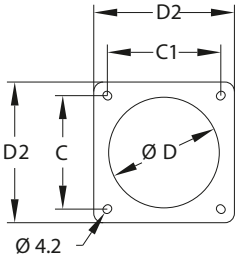
EASY & SAFE

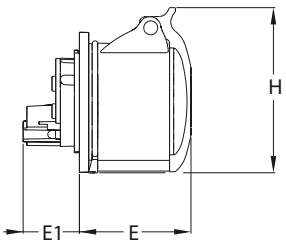


216R6

16 A. Splashproof
Housing in plastic (PA). Cable area 1.5...4 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Yellow	100...130	50 and 60	216R4	2CMA193145R1000	10	0.14
		Blue	200...250		216R6	2CMA193146R1000		
		Red	380...415		216R9	2CMA193147R1000		
		Grey	transf.		216R12	2CMA193148R1000		
3P+E								
4		Grey		AC	316R1	2CMA193159R1000	10	0.17
		Yellow	100...130	50 and 60	316R4	2CMA193152R1000		
		Black	600...690		316R5	2CMA193153R1000		
		Red	380...415		316R6	2CMA193154R1000		
		Black	480...500		316R7	2CMA193155R1000		
		Blue	200...250		316R9	2CMA193156R1000		
		Green	> 50 V~	100...300	316R10	2CMA193157R1000		
		Red	440...460	60	316R11	2CMA193158R1000		
3P+N+E								
5		Grey		AC	416R1	2CMA193167R1000	10	0.19
		Green	> 50 V~	>300...500	416R2	2CMA193160R1000		
		Red	346...415		416R6	2CMA193163R1000		
		Blue	208...250	50 and 60	416R9	2CMA193165R1000		





Dimensions (mm)

Type	C	C1	D	D2	E	E1	H
216R..	44-47	44-47	49	56	56	29	73
316R..	50-52	50-52	59	66	58	30	87
416R..	50-52	50-52	59	66	60	31	89

Socket outlet

for panel mounting with minimized angled flange, IP44

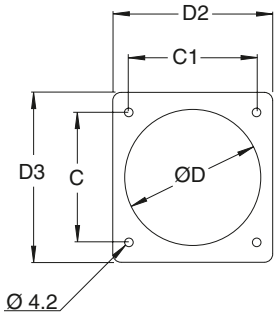
EASY & SAFE

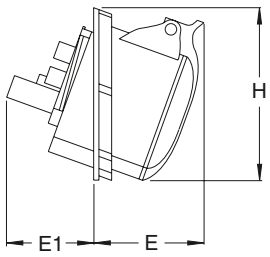


216RAM6

16 A. Splashproof
Housing in plastic (PA). Cable area 1.5...4 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	216RAM1	2CMA170007R1000	10	0.21
		Yellow	100...130	50 and 60	216RAM4	2CMA170003R1000		
		Blue	200...250		216RAM6	2CMA170004R1000		
		Red	380...415		216RAM9	2CMA170005R1000		
		Grey	transf.		216RAM12	2CMA170006R1000		
3P+E								
4		Grey		AC	316RAM1	2CMA170017R1000	10	0.22
		Yellow	100...130	50 and 60	316RAM4	2CMA170010R1000		
		Black	600...690		316RAM5	2CMA170011R1000		
		Red	380...415		316RAM6	2CMA170012R1000		
		Black	480...500		316RAM7	2CMA170013R1000		
		Blue	200...250		316RAM9	2CMA170014R1000		
		Green	> 50 V~	100...300	316RAM10	2CMA170015R1000		
		Red	440...460	60	316RAM11	2CMA170016R1000		
3P+N+E								
5		Grey		AC	416RAM1	2CMA170025R1000	10	0.24
		Green	> 50 V~	>300...500	416RAM2	2CMA170018R1000		
		Red	346...415	50 and 60	416RAM6	2CMA170021R1000		
		Blue	208...250		416RAM9	2CMA170023R1000		





Dimensions (mm)

Type	C	C1	D	D2	D3	E	E1	H
216RAM..	55	55	63	70	78	53	42	76
316RAM..	66	66	78	83	89	53	46	85
416RAM..	66	66	78	83	89	55	48	89

Socket outlet

for panel mounting with minimized angled flange, IP44

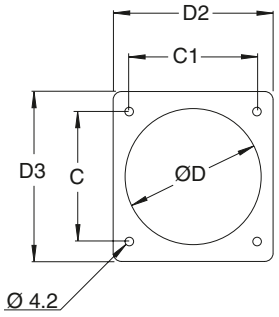
EASY & SAFE

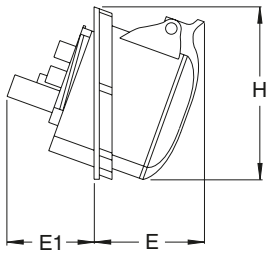


332RAM6

32 A. Splashproof
Housing in plastic (PA). Cable area 2.5...10 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Grey		AC	232RAM1	2CMA170030R1000	10	0.21
	Grey	> 50...250	DC	232RAM3	2CMA100856R1000		
	Yellow	100...130	50 and 60	232RAM4	2CMA170026R1000		
	Blue	200...250		232RAM6	2CMA170027R1000		
3P+E							
4	Grey		AC	332RAM1	2CMA170040R1000	10	0.22
	Black	600...690	50 and 60	332RAM5	2CMA170034R1000		
	Red	380...415		332RAM6	2CMA170035R1000		
	Black	480...500		332RAM7	2CMA170036R1000		
	Blue	200...250		332RAM9	2CMA170037R1000		
3P+N+E							
5	Grey		AC	432RAM1	2CMA170048R1000	10	0.24
	Red	346...415	50 and 60	432RAM6	2CMA170044R1000		





Dimensions (mm)

Type	C	C1	D	D2	D3	E	E1	H
232RAM...	75	75	87	93	99	61	52	98
332RAM...	75	75	87	93	99	61	52	98
432RAM...	75	75	87	93	99	64	52	101

Watertight Easy & Safe

Our IP67 Easy & Safe is a perfect choice in most applications where water and dirt can occur. They combine easy access to contact parts during installation with high protection degree while the products are in use. Electrical contacts protected against liquids and dirt retains its performance over time. High contact performance
means reliability, reducing downtime and lowers maintenance costs.



Plugs
IP67

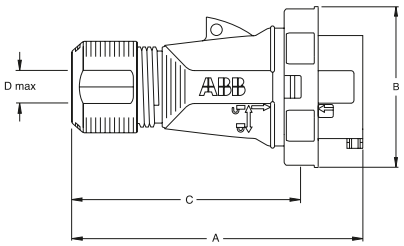
EASY & SAFE



216EP6W

16 A. Watertight
Housing in plastic (PA). Cable entry with compression gland. Cable area 1...2.5 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	216EP1W	2CMA101069R1000	10	0.13
		Yellow	100...130	50 and 60	216EP4W	2CMA101071R1000		
		Blue	200...250		216EP6W	2CMA101072R1000		
		Red	380...415		216EP9W	2CMA101073R1000		
		Grey	transf		216EP12W	2CMA101074R1000		
3P+E								
4		Grey		AC	316EP1W	2CMA101075R1000	10	0.19
		Green	> 50 V~	>300...500	316EP2W	2CMA101076R1000		
		Red	380/440	50/60	316EP3W	2CMA101077R1000		
		Yellow	100...130	50 and 60	316EP4W	2CMA101078R1000		
		Black	600...690		316EP5W	2CMA101079R1000		
		Red	380...415		316EP6W	2CMA101080R1000		
		Black	480...500		316EP7W	2CMA101081R1000		
		Blue	200...250		316EP9W	2CMA101082R1000		
		Green	> 50 V~	100...300	316EP10W	2CMA101083R1000		
		Red	440...460	60	316EP11W	2CMA101084R1000		
3P+N+E								
5		Grey		AC	416EP1W	2CMA101085R1000	10	0.21
		Green	> 50 V~	>300...500	416EP2W	2CMA101086R1000		
		Red	380...440	50/60	416EP3W	2CMA101087R1000		
		Yellow	100...130	50 and 60	416EP4W	2CMA101088R1000		
		Red	346...415		416EP6W	2CMA101089R1000		
		Black	480...500		416EP7W	2CMA101090R1000		
		Blue	208...250		416EP9W	2CMA101091R1000		
		Red	440...460	60	416EP11W	2CMA101092R1000		



Dimensions (mm)

Type	A	B	C	Dmax
216EP...W	134	73	100	14
316EP...W	161	81	127	17
416EP...W	158	87	125	17

Plugs
IP67

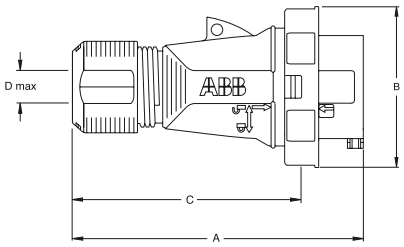
EASY & SAFE



432EP6W

32 A. Watertight
Housing in plastic (PA). Cable entry with compression gland. Cable area 2.5...6 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	232EP1W	2CMA101093R1000	10	0.23
		Grey	> 50...250	DC	232EP3W	2CMA105987R1000		
		Yellow	100...130	50 and 60	232EP4W	2CMA101094R1000		
		Blue	200...250		232EP6W	2CMA101095R1000		
		Red	380...415		232EP9W	2CMA101096R1000		
		Grey	transf		232EP12W	2CMA101097R1000		
3P+E								
4		Grey		AC	332EP1W	2CMA101098R1000	10	0.25
		Green	> 50 V~	>300...500	332EP2W	2CMA101099R1000		
		Red	380/440	50/60	332EP3W	2CMA101100R1000		
		Yellow	100...130	50 and 60	332EP4W	2CMA101101R1000		
		Black	600...690		332EP5W	2CMA101102R1000		
		Red	380...415		332EP6W	2CMA101103R1000		
		Black	480...500		332EP7W	2CMA101104R1000		
		Blue	200...250		332EP9W	2CMA101105R1000		
		Green	100...300	>50	332EP10W	2CMA101106R1000		
		Red	440...460	60	332EP11W	2CMA101107R1000		
3P+N+E								
5		Grey		AC	432EP1W	2CMA101108R1000	10	0.25
		Green	> 50 V~	>300...500	432EP2W	2CMA101109R1000		
		Red	380...440	50/60	432EP3W	2CMA101110R1000		
		Yellow	100...130	50 and 60	432EP4W	2CMA101111R1000		
		Red	346...415		432EP6W	2CMA101112R1000		
		Black	480...500		432EP7W	2CMA101113R1000		
		Blue	208...250		432EP9W	2CMA101114R1000		
		Red	440...460	60	432EP11W	2CMA101115R1000		



Dimensions (mm)

Type	A	B	C	Dmax
232EP...W	183	91	141	22
332EP...W	183	91	141	22
432EP...W	183	99	141	22

Connectors

IP67

EASY & SAFE

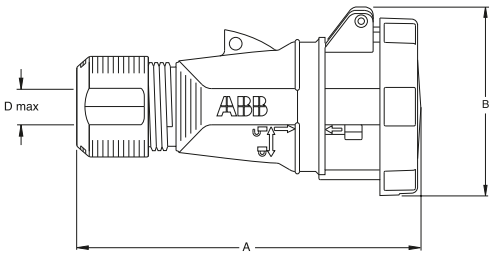


216EC6W

16 A. Watertight

Housing in plastic (PA). Cable entry with compression gland. Cable area 1...2.5 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	216EC1W	2CMA101116R1000	10	0.17
		Yellow	100...130	50 and 60	216EC4W	2CMA101118R1000		
		Blue	200...250		216EC6W	2CMA101119R1000		
		Red	380...415		216EC9W	2CMA101120R1000		
		Grey	transf		216EC12W	2CMA101121R1000		
3P+E								
4		Grey		AC	316EC1W	2CMA101122R1000	10	0.23
		Green	> 50 V~	>300...500	316EC2W	2CMA101123R1000		
		Red	380/440	50/60	316EC3W	2CMA101124R1000		
		Yellow	100...130	50 and 60	316EC4W	2CMA101125R1000		
		Black	600...690		316EC5W	2CMA101126R1000		
		Red	380...415		316EC6W	2CMA101127R1000		
		Black	480...500		316EC7W	2CMA101128R1000		
		Blue	200...250		316EC9W	2CMA101129R1000		
		Green	> 50 V~	100...300	316EC10W	2CMA101130R1000		
		Red	440...460	60	316EC11W	2CMA101131R1000		
3P+N+E								
5		Grey		AC	416EC1W	2CMA101132R1000	10	0.26
		Green	> 50 V~	>300...500	416EC2W	2CMA101133R1000		
		Red	380...440	50/60	416EC3W	2CMA101134R1000		
		Yellow	100...130	50 and 60	416EC4W	2CMA101135R1000		
		Red	346...415		416EC6W	2CMA101136R1000		
		Black	480...500		416EC7W	2CMA101137R1000		
		Blue	208...250		416EC9W	2CMA101138R1000		
		Red	440...460	60	416EC11W	2CMA101139R1000		



Dimensions (mm)

Type	A	B	Dmax
216EC...W	146	81	14
316EC...W	169	88	17
416EC...W	169	92	17

Connectors

IP67

EASY & SAFE

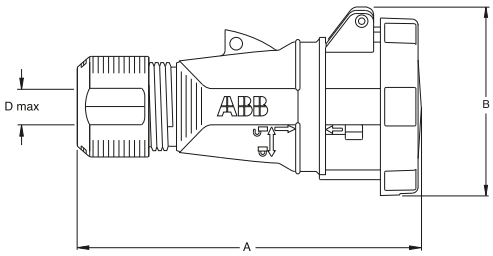


432EC6W

32 A. Watertight

Housing in plastic (PA). Cable entry with compression gland. Cable area 2.5...6 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	232EC1W	2CMA101140R1000	10	0.28
		Yellow	100...130	50 and 60	232EC4W	2CMA101141R1000		
		Blue	200...250		232EC6W	2CMA101142R1000		
		Red	380...415		232EC9W	2CMA101143R1000		
		Grey	transf		232EC12W	2CMA101144R1000		
3P+E								
4		Grey		AC	332EC1W	2CMA101145R1000	10	0.30
		Green	> 50 V~	>300...500	332EC2W	2CMA101146R1000		
		Red	380/440	50/60	332EC3W	2CMA101147R1000		
		Yellow	100...130	50 and 60	332EC4W	2CMA101148R1000		
		Black	600...690		332EC5W	2CMA101149R1000		
		Red	380...415		332EC6W	2CMA101150R1000		
		Black	480...500		332EC7W	2CMA101151R1000		
		Blue	200...250		332EC9W	2CMA101152R1000		
		Green	> 50 V~	100...300	332EC10W	2CMA101153R1000		
		Red	440...460	60	332EC11W	2CMA101154R1000		
3P+N+E								
5		Grey		AC	432EC1W	2CMA101155R1000	10	0.30
		Green	> 50 V~	>300...500	432EC2W	2CMA101156R1000		
		Red	380...440	50/60	432EC3W	2CMA101157R1000		
		Yellow	100...130	50 and 60	432EC4W	2CMA101158R1000		
		Red	346...415		432EC6W	2CMA101159R1000		
		Black	480...500		432EC7W	2CMA101160R1000		
		Blue	208...250		432EC9W	2CMA101161R1000		
		Red	440...460	60	432EC11W	2CMA101162R1000		



Dimensions (mm)

Type	A	B	Dmax
232EC...W	195	98	22
332EC...W	195	98	22
432EC...W	195	104	22

Inlets

for wall mounting, IP67

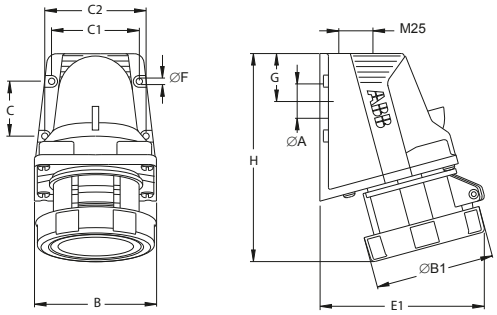
EASY & SAFE



216EBS6W

16 A. Watertight
Housing in plastic (PA). Cable gland included. Cable area 1...2.5 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Grey		AC	216EBS1W	2CMA101163R1000	10	0.20
	Yellow	100...130	50 and 60	216EBS4W	2CMA101165R1000		
	Blue	200...250		216EBS6W	2CMA101166R1000		
	Red	380...415		216EBS9W	2CMA101167R1000		
	Grey	transf		216EBS12W	2CMA101168R1000		
3P+E							
4	Grey		AC	316EBS1W	2CMA101169R1000	10	0.23
	Green	> 50 V~	>300...500	316ESB2W	2CMA101170R1000		
	Red	380/440	50/60	316EBS3W	2CMA101171R1000		
	Yellow	100...130	50 and 60	316EBS4W	2CMA101172R1000		
	Black	600...690		316EBS5W	2CMA101173R1000		
	Red	380...415		316EBS6W	2CMA101174R1000		
	Black	480...500		316EBS7W	2CMA101175R1000		
	Blue	200...250		316EBS9W	2CMA101176R1000		
	Green	> 50 V~	100...300	316EBS10W	2CMA101177R1000		
	Red	440...460	60	316EBS11W	2CMA101178R1000		
3P+N+E							
5	Grey		AC	416EBS1W	2CMA101179R1000	10	0.25
	Green	> 50 V~	>300...500	416EBS2W	2CMA101180R1000		
	Red	380...440	50/60	416EBS3W	2CMA101181R1000		
	Yellow	100...130	50 and 60	416EBS4W	2CMA101182R1000		
	Red	346...415		416EBS6W	2CMA101183R1000		
	Black	480...500		416EBS7W	2CMA101184R1000		
	Blue	208...250		416EBS9W	2CMA101185R1000		
	Red	440...460	60	416EBS11W	2CMA101186R1000		



Dimensions (mm)

Type	A	B	C	C1	C2	E1	ØF	G	H
216EBS...W	25	88.5	40	63.5	73.5	112	4.5	34.75	135
316EBS...W	25	88.5	40	63.5	73.5	108	4.5	34.75	138
416EBS...W	25	88.5	40	63.5	73.5	112	4.5	34.75	140

Inlets

for wall mounting, IP67

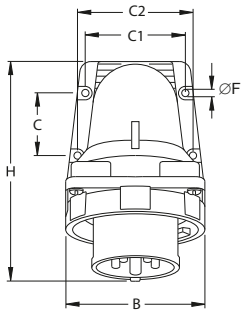
EASY & SAFE

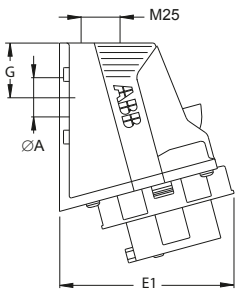


432EBS6W

32 A. Watertight
Housing in plastic (PA). Cable gland included. Cable area 2.5...6 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	232EBS1W	2CMA101187R1000	10	0.26
		Yellow	100...130	50 and 60	232EBS4W	2CMA101188R1000		
		Blue	200...250		232EBS6W	2CMA101189R1000		
		Red	380...415		232EBS9W	2CMA101190R1000		
		Grey	transf		232EBS12W	2CMA101191R1000		
3P+E								
4		Grey		AC	332EBS1W	2CMA101192R1000	10	0.27
		Green	> 50 V~	>300...500	332EBS2W	2CMA101193R1000		
		Red	380/440	50/60	332EBS3W	2CMA101194R1000		
		Yellow	100...130	50 and 60	332EBS4W	2CMA101195R1000		
		Black	600...690		332EBS5W	2CMA101196R1000		
		Red	380...415		332EBS6W	2CMA101197R1000		
		Black	480...500		332EBS7W	2CMA101198R1000		
		Blue	200...250		332EBS9W	2CMA101199R1000		
		Green	> 50 V~	100...300	332EBS10W	2CMA101200R1000		
		Red	440...460	60	332EBS11W	2CMA101201R1000		
3P+N+E								
5		Grey		AC	432EBS1W	2CMA101202R1000	10	0.28
		Green	> 50 V~	>300...500	432EBS2W	2CMA101203R1000		
		Red	380...440	50/60	432EBS3W	2CMA101204R1000		
		Yellow	100...130	50 and 60	432EBS4W	2CMA101205R1000		
		Red	346...415		432EBS6W	2CMA101206R1000		
		Black	480...500		432EBS7W	2CMA101207R1000		
		Blue	208...250		432EBS9W	2CMA101208R1000		
		Red	440...460	60	432EBS11W	2CMA101209R1000		





Dimensions (mm)

Type	A	B	C	C1	C2	E1	ØF	G	H
232EBS...W	25	91	40	63.5	73.5	106	4.5	34.75	150
332EBS...W	25	91	40	63.5	73.5	106	4.5	34.75	150
432EBS...W	25	99	40	63.5	73.5	110	4.5	34.75	152

Inlets

for panel mounting with unified straight flange, IP67

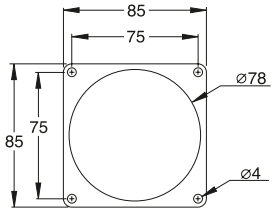
EASY & SAFE

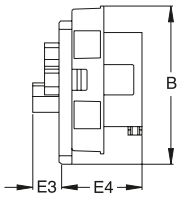


216EBU6W

16 A. Watertight
Housing in plastic (PA). Cable area 1...2.5 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Grey		AC	216EBU1W	2CMA101257R1000	10	0.11
	Yellow	100...130	50 and 60	216EBU4W	2CMA101258R1000		
	Blue	200...250		216EBU6W	2CMA101259R1000		
	Red	380...415		216EBU9W	2CMA101260R1000		
3P+E							
4	Grey		AC	316EBU1W	2CMA101261R1000	10	0.14
	Yellow	100...130	50 and 60	316EBU4W	2CMA101262R1000		
	Black	600...690		316EBU5W	2CMA101263R1000		
	Red	380...415		316EBU6W	2CMA101264R1000		
	Black	480...500		316EBU7W	2CMA101265R1000		
	Blue	200...250		316EBU9W	2CMA101266R1000		
	Red	440...460	60	316EBU11W	2CMA101267R1000		
3P+N+E							
5	Grey		AC	416EBU1W	2CMA101268R1000	10	0.16
	Yellow	100...130	50 and 60	416EBU4W	2CMA101269R1000		
	Red	346...415		416EBU6W	2CMA101270R1000		
	Black	480...500		416EBU7W	2CMA101271R1000		
	Blue	208...250		416EBU9W	2CMA101812R1000		
	Red	440...460	60	416EBU11W	2CMA101272R1000		





Dimensions (mm)

Type	B	E3	E4
216EBU...W	94	17	48.5
316EBU...W	90	17	48.5
416EBU...W	93.5	17	48.5

Inlets

for panel mounting with unified straight flange, IP67

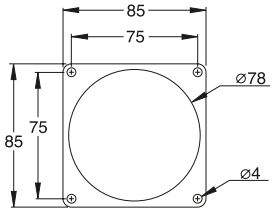
EASY & SAFE

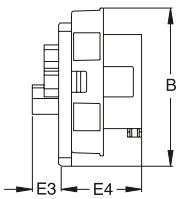


432EBU6W

32 A. Watertight
Housing in plastic (PA). Cable area 2.5...6 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	232EBU1W	2CMA101273R1000	10	0.17
		Yellow	100...130	50 and 60	232EBU4W	2CMA101274R1000		
		Blue	200...250		232EBU6W	2CMA101275R1000		
		Red	380...415		232EBU9W	2CMA101813R1000		
3P+E								
4		Grey		AC	332EBU1W	2CMA101276R1000	10	0.18
		Red	380/440	50/60	332EBU3W	2CMA101277R1000		
		Yellow	100...130	50 and 60	332EBU4W	2CMA101278R1000		
		Red	380...415		332EBU6W	2CMA101279R1000		
		Black	480...500		332EBU7W	2CMA101280R1000		
		Blue	200...250		332EBU9W	2CMA101281R1000		
		Red	440...460	60	332EBU11W	2CMA101282R1000		
3P+N+E								
5		Grey		AC	432EBU1W	2CMA101283R1000	10	0.19
		Yellow	100...130	50 and 60	432EBU4W	2CMA101284R1000		
		Red	346...415		432EBU6W	2CMA101285R1000		
		Black	480...500		432EBU7W	2CMA101286R1000		
		Blue	208...250		432EBU9W	2CMA101287R1000		
		Red	440...460	60	432EBU11W	2CMA101288R1000		





Dimensions (mm)

Type	B	E3	E4
232EBU...W	91	16	58
332EBU...W	91	16	58
432EBU...W	99	16	58

Socket outlet

for wall mounting, IP67

EASY & SAFE

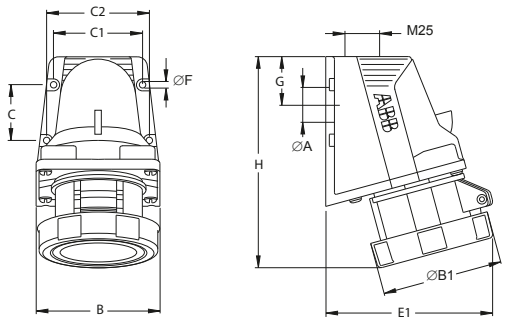


216ERS6W

16 A. Watertight

Housing in plastic (PA). Cable gland included. Cable area 1.5...4 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	216ERS1W	2CMA101210R1000	10	0.24
		Yellow	100...130	50 and 60	216ERS4W	2CMA101212R1000		
		Blue	200...250		216ERS6W	2CMA101213R1000		
		Red	380...415		216ERS9W	2CMA101214R1000		
		Grey	transf		216ERS12W	2CMA101215R1000		
3P+E								
4		Grey		AC	316ERS1W	2CMA101216R1000	10	0.27
		Green	> 50 V~	>300...500	316ERB2W	2CMA101217R1000		
		Red	380/440	50/60	316ERS3W	2CMA101218R1000		
		Yellow	100...130	50 and 60	316ERS4W	2CMA101219R1000		
		Black	600...690		316ERS5W	2CMA101220R1000		
		Red	380...415		316ERS6W	2CMA101221R1000		
		Black	480...500		316ERS7W	2CMA101222R1000		
		Blue	200...250		316ERS9W	2CMA101223R1000		
		Green	> 50 V~	100...300	316ERS10W	2CMA101224R1000		
		Red	440...460	60	316ERS11W	2CMA101225R1000		
3P+N+E								
5		Grey		AC	416ERS1W	2CMA101226R1000	10	0.30
		Green	> 50 V~	>300...500	416ERS2W	2CMA101227R1000		
		Red	380...440	50/60	416ERS3W	2CMA101228R1000		
		Yellow	100...130	50 and 60	416ERS4W	2CMA101229R1000		
		Red	346...415		416ERS6W	2CMA101230R1000		
		Black	480...500		416ERS7W	2CMA101231R1000		
		Blue	208...250		416ERS9W	2CMA101232R1000		
		Red	440...460	60	416ERS11W	2CMA101233R1000		



Dimensions (mm)

Type	A	B	ØB1	C	C1	C2	E1	ØF	G	H
216ERS...W	25	88.5	73	40	63.5	73.5	112	4.5	34.75	147
316ERS...W	25	88.5	81	40	63.5	73.5	117	4.5	34.75	150
416ERS...W	25	88.5	87	40	63.5	73.5	119	4.5	34.75	151

Socket outlet

for wall mounting, IP67

EASY & SAFE

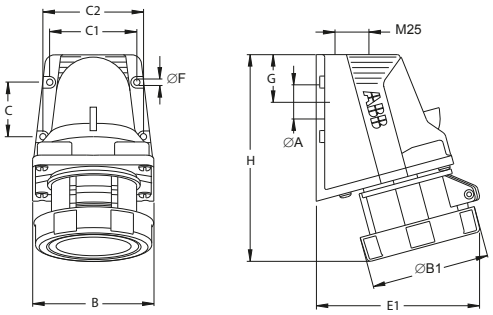


432ERS6W

32 A. Watertight

Housing in plastic (PA). Cable gland included. Cable area 2.5...10 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	232ERS1W	2CMA101234R1000	10	0.31
		Yellow	100...130	50 and 60	232ERS4W	2CMA101235R1000		
		Blue	200...250		232ERS6W	2CMA101236R1000		
		Red	380...415		232ERS9W	2CMA101237R1000		
		Grey	transf		232ERS12W	2CMA101238R1000		
3P+E								
4		Grey		AC	332ERS1W	2CMA101239R1000	10	0.32
		Green	> 50 V~	>300...500	332ERS2W	2CMA101240R1000		
		Red	380/440	50/60	332ERS3W	2CMA101241R1000		
		Yellow	100...130	50 and 60	332ERS4W	2CMA101242R1000		
		Black	600...690		332ERS5W	2CMA101243R1000		
		Red	380...415		332ERS6W	2CMA101244R1000		
		Black	480...500		332ERS7W	2CMA101245R1000		
		Blue	200...250		332ERS9W	2CMA101246R1000		
		Green	> 50 V~	100...300	332ERS10W	2CMA101248R1000		
		Red	440...460	60	332ERS11W	2CMA101247R1000		
3P+N+E								
5		Grey		AC	432ERS1W	2CMA101249R1000	10	0.32
		Green	> 50 V~	>300...500	432ERS2W	2CMA101250R1000		
		Red	380...440	50/60	432ERS3W	2CMA101251R1000		
		Yellow	100...130	50 and 60	432ERS4W	2CMA101252R1000		
		Red	346...415		432ERS6W	2CMA101253R1000		
		Black	480...500		432ERS7W	2CMA101254R1000		
		Blue	208...250		432ERS9W	2CMA101255R1000		
		Red	440...460	60	432ERS11W	2CMA101256R1000		



Dimensions (mm)

Type	A	B	ØB1	C	C1	C2	E1	ØF	G	H
232ERS...W	25	88.5	91	40	63.5	73.5	117	4.5	**34.75**	163
332ERS...W	25	88.5	91	40	63.5	73.5	117	4.5	**34.75**	163
432ERS...W	25	88.5	99	40	63.5	73.5	120	4.5	**34.75**	164

Socket outlet

for wall mounting, IP67

EASY & SAFE

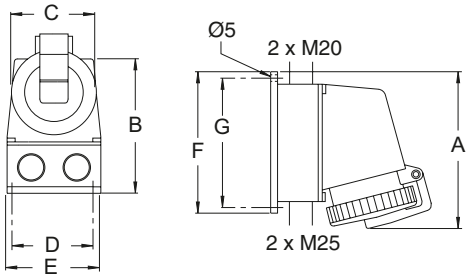


216ERT6W

16 A. Watertight

Housing in plastic (PBT). Cable entry with knock-outs 2xM20 on top and 2xM25 on bottom. Cable area 1.5...4 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Yellow	100...130	50 and 60	216ERT4W	2CMA101728R1000	1	0.33
		Blue	200...250		216ERT6W	2CMA101729R1000		
		Red	380...415		216ERT9W	2CMA101776R1000		
		Grey	transf.		216ERT12W	2CMA101777R1000		
3P+E								
4		Green	> 50 V~	>300...500	316ERT2W	2CMA101778R1000	1	0.35
		Yellow	100...130	50 and 60	316ERT4W	2CMA101779R1000		
		Black	600...690		316ERT5W	2CMA101780R1000		
		Red	380...415		316ERT6W	2CMA101730R1000		
		Black	480...500		316ERT7W	2CMA101781R1000		
		Blue	200...250		316ERT9W	2CMA101731R1000		
		Green	> 50 V~	100...300	316ERT10W	2CMA101782R1000		
		Red	440...460	60	316ERT11W	2CMA101732R1000		
		Grey	transf.		316ERT12W	2CMA101783R1000		
3P+N+E								
5		Yellow	100...130	50 and 60	416ERT4W	2CMA101784R1000	1	0.39
		Red	346...415		416ERT6W	2CMA101733R1000		
		Black	480...500		416ERT7W	2CMA101785R1000		
		Blue	208...250		416ERT9W	2CMA101786R1000		
		Green	> 50 V~	100...300	416ERT10W	2CMA101787R1000		
		Red	440...460	60	416ERT11W	2CMA101788R1000		



Dimensions (mm)

Type	A	B	C	D	E	F	6
216ERT...W...416ERT...W	134	139	**82**	**71**	**80**	**120**	111

Socket outlet

for wall mounting, IP67

EASY & SAFE

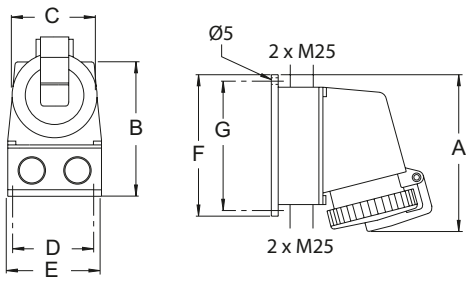


432ERT6W

32 A. Watertight

Housing in plastic (PBT). Cable entry with knock-outs 2xM20 on bottom and 2xM25 on top. Cable area 2.5...10 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Yellow	100...130	50 and 60	232ERT4W	2CMA101790R1000	1	0.37
		Blue	200...250		232ERT6W	2CMA101791R1000		
		Red	380...415		232ERT9W	2CMA101792R1000		
		Grey	transf.		232ERT12W	2CMA101793R1000		
3P+E								
4		Green	> 50 V~	>300...500	332ERT2W	2CMA101794R1000	1	0.42
		Red	380/440	50/60	332ERT3W	2CMA101734R1000		
		Yellow	100...130	50 and 60	332ERT4W	2CMA101795R1000		
		Black	600...690		332ERT5W	2CMA101796R1000		
		Red	380...415		332ERT6W	2CMA101735R1000		
		Black	480...500		332ERT7W	2CMA101797R1000		
		Blue	200...250		332ERT9W	2CMA101736R1000		
		Green	> 50 V~	100...300	332ERT10W	2CMA101798R1000		
		Red	440...460	60	332ERT11W	2CMA101737R1000		
		Grey	transf.		332ERT12W	2CMA101799R1000		
3P+N+E								
		Green	> 50 V~	>300...500	432ERT2W	2CMA101800R1000	1	0.47
		Yellow	100...130	50 and 60	432ERT4W	2CMA101801R1000		
		Red	346...415		432ERT6W	2CMA101738R1000		
		Black	480...500		432ERT7W	2CMA101802R1000		
		Blue	208...250		432ERT9W	2CMA101803R1000		
		Red	440...460	60	432ERT11W	2CMA101804R1000		



Dimensions (mm)

Type	A	B	C	D	E	F	6
232ERT...W...332ERT...W	140	143	**88**	**71**	**80**	**120**	111
432ERT...W	142	146	95	71	80	120	111

Socket outlet

for wall mounting, IP67

EASY & SAFE

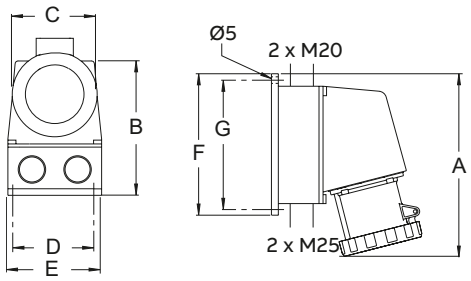


463ERT6W

63 A. Watertight

Housing in plastic (PBT). Cable entry with knock-outs 2 x M32/M40 + 1 x M20 on top. 1 x M20 + 1 x M32/M40 on bottom. Cable area 6...25 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
3P+E							
4	Black	600...690	50 and 60	363ERT5W	2CMA101898R1000	1	1.45
	Red	380...415		363ERT6W	2CMA101899R1000		
	Black	480...500		363ERT7W	2CMA101900R1000		
	Blue	200...250		363ERT9W	2CMA101901R1000		
	Red	440...460	60	363ERT11W	2CMA101902R1000		
3P+N+E							
5	Red	346...415	50 and 60	463ERT6W	2CMA101896R1000	1	1.55
	Blue	208...250		463ERT9W	2CMA101897R1000		



Dimensions (mm)

Type	A	B	C	D	E	F	6
263ERT...W...463ERT...W	255	215	**108**	**129**	**150**	**187**	124

Socket outlet

for panel mounting with unified straight flange, IP67

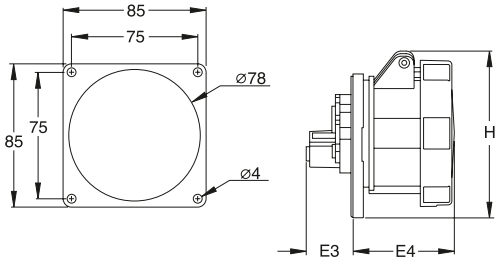
EASY & SAFE



216ERU6W

16 A. Watertight
Housing in plastic (PA). Cable area 1.5...4 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	216ERU1W	2CMA101289R1000	10	0.15
		Yellow	100...130	50 and 60	216ERU4W	2CMA101290R1000		
		Blue	200...250		216ERU6W	2CMA101291R1000		
		Red	380...415		216ERU9W	2CMA101292R1000		
3P+E								
4		Grey		AC	316ERU1W	2CMA101293R1000	10	0.18
		Yellow	100...130	50 and 60	316ERU4W	2CMA101294R1000		
		Black	600...690		316ERU5W	2CMA101295R1000		
		Red	380...415		316ERU6W	2CMA101296R1000		
		Black	480...500		316ERU7W	2CMA101297R1000		
		Blue	200...250		316ERU9W	2CMA101298R1000		
		Red	440...460	60	316ERU11W	2CMA101299R1000		
3P+N+E								
5		Grey		AC	416ERU1W	2CMA101300R1000	10	0.21
		Yellow	100...130	50 and 60	416ERU4W	2CMA101301R1000		
		Red	346...415		416ERU6W	2CMA101302R1000		
		Black	480...500		416ERU7W	2CMA101303R1000		
		Blue	208...250		416ERU9W	2CMA101304R1000		
		Red	440...460	60	416ERU11W	2CMA101305R1000		



Dimensions (mm)

Type	B	E3	E4
216ERU...W	103	27	60
316ERU...W	98	28	60
416ERU...W	99	28	60

Socket outlet

for panel mounting with unified straight flange, IP67

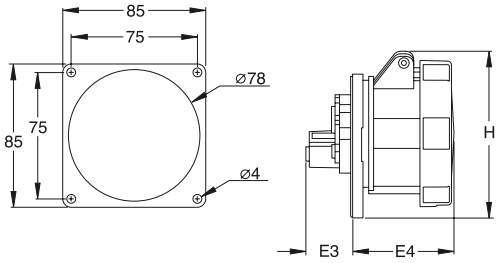
EASY & SAFE



432ERU6W

32 A. Watertight
Housing in plastic (PA). Cable area 2.5...10 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Grey		AC	232ERU1W	2CMA101306R1000	10	0.22
	Yellow	100...130	50 and 60	232ERU4W	2CMA101307R1000		
	Blue	200...250		232ERU6W	2CMA101308R1000		
	Red	380...415		232ERU9W	2CMA101309R1000		
3P+E							
4	Grey		AC	332ERU1W	2CMA101310R1000	10	0.23
	Red	380/440	50/60	332ERU3W	2CMA101311R1000		
	Yellow	100...130	50 and 60	332ERU4W	2CMA101312R1000		
	Red	380...415		332ERU6W	2CMA101313R1000		
	Black	480...500		332ERU7W	2CMA101314R1000		
	Blue	200...250		332ERU9W	2CMA101315R1000		
	Red	440...460	60	332ERU11W	2CMA101316R1000		
3P+N+E							
5	Grey		AC	432ERU1W	2CMA101317R1000	10	0.23
	Yellow	100...130	50 and 60	432ERU4W	2CMA101318R1000		
	Red	346...415		432ERU6W	2CMA101319R1000		
	Black	480...500		432ERU7W	2CMA101320R1000		
	Blue	208...250		432ERU9W	2CMA101321R1000		
	Red	440...460	60	432ERU11W	2CMA101322R1000		



Dimensions (mm)

Type	B	E3	E4
232ERU...W	98	31	70
332ERU...W	98	31	70
432ERU...W	104	32	69

Phase inverters

IP44



416EPFV6

Phase Inverter Plug. 16A, IP44. Splashproof
Housing in plastic (PA). Cable area 1...2.5 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
3P+N+E								
5	■	Red	346...415	**50 and 60**	416EPFV6	2CMA106228R1000	**10**	**0.19**



416BUFV6

Phase Inverter Panel mounted inlet with unified straight flange. 16A, IP44. Splashproof
Housing in plastic (PA). Cable area 1...2.5 mm²

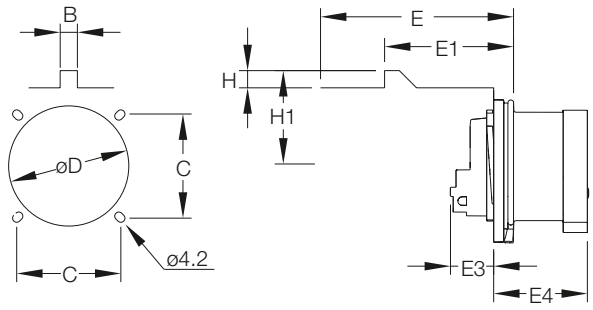
Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
3P+N+E								
5	■	Red	346...415	**50 and 60**	416BUFV6	2CMA168159R1000	**10**	**0.19**



416BSFV6

Phase Inverter surface inlets for wall mounting. 16A, IP44. Splashproof
Housing in plastic (PA). Cable area 1...2.5 mm²

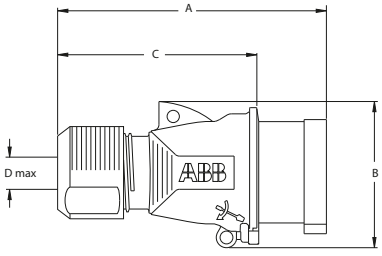
Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
3P+N+E								
5	■	Red	346...415	50 and 60	416BSFV6	2CMA168169R1000	**10**	**0.19**

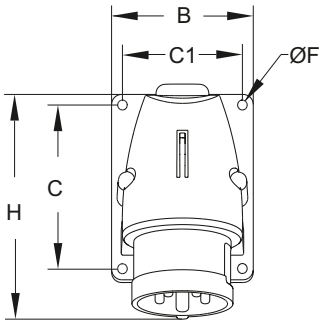


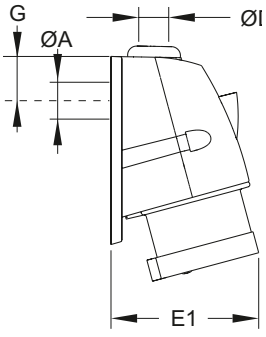
Dimensions (mm)

Type	B	C	D	E	E1	E3	E4	H	H1
416BUFV6	9	60-61	59	90	52.5	21.0	46.5	7	38.0

Type	A	B	C	C1	Dmax	E1	F	G	H
416EPFV6	23	66	75	54	18/M20				
416BSFV	23	79	91	67	18/M20	81	5.5	30	125







Industrial plugs and sockets
for entertainment applications

Plugs



Type EP...B, 16 A...32 A, IP44

Connectors



Type EC...B, 16 A...32 A, IP44

Inlets



For wall mounting, Type BS...B
16 A...32 A, IP44

Socket outlet



For wall mounting, Type RS...B
16 A...32 A, IP44



For panel mounting with unified straight flange, Type RU...B
16 A...32 A, IP44



For panel mounting with minimized angled flange, Type RAM...B
16 A...32 A, IP44

Black plugs and sockets
for entertainment applications

With extensive experience of designing and producing industrial plugs and sockets, ABB can provide products of high quality, functionality, reliability and safety. Regardless of the situation, safety of people should be of highest priority in electrical installations, always.

ABB´s series of black plugs and sockets which are very well suited for entertainment applications, such as concerts, cinemas, television studios, and open-air events. The black series are perfect for both indoor and outdoor use, they will blend into their dark surroundings.

Pin and sleeve configuration according to IEC standard. Product labels give the information on which voltage range the product is intended for. The black series assure the high quality level that characterizes ABB's industrial plugs & sockets.



Plug in black color

for entertainment applications, IP44

EASY & SAFE



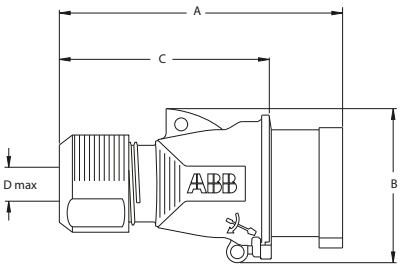
316EP6B

16 A. Splashproof
Housing in plastic (PA). Cable area 1...2.5 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Blue	200...250	50 and 60	216EP6B	2CMA103579R1000	10	0.11
	Red	380...415		216EP9B	2CMA103598R1000		
3P+E							
4	Red	380...415	50 and 60	316EP6B	2CMA103584R1000	10	0.16
	Blue	200...250		316EP9B	2CMA103585R1000		
3P+N+E							
5	Red	346...415	50 and 60	416EP6B	2CMA103591R1000	10	0.18
	Blue	208...250		416EP9B	2CMA103599R1000		

32 A. Splashproof
Housing in plastic (PA). Cable area 2.5...6 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Blue	200...250	50 and 60	232EP6B	2CMA103581R1000	10	0.21
	Red	380...415		232EP9B	2CMA103600R1000		
3P+E							
4	Red	380...415	50 and 60	332EP6B	2CMA103588R1000	10	0.23
	Blue	200...250		332EP9B	2CMA103589R1000		
3P+N+E							
5	Red	346...415	50 and 60	432EP6B	2CMA103593R1000	10	0.24
	Blue	208...250		432EP9B	2CMA103601R1000		



Dimensions (mm)

Type	A	B	C	Dmax
216EP...B	127	62.5	88.5	14
316EP...B	144	74.5	106	17
416EP...B	144	78	106	17
232EP...B	167	82.5	121	22
332EP...B	167	82.5	121	22
432EP...B	167	87.5	121	22

Connector in black color

for entertainment applications, IP44

EASY & SAFE



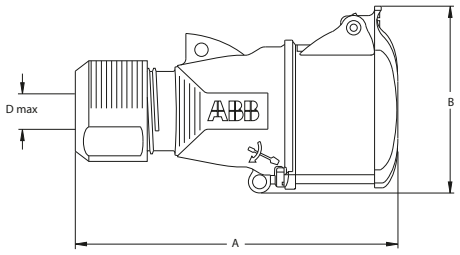
316EC6B

16 A. Splashproof
Housing in plastic (PA). Cable area 1...2.5 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Blue	200...250	50 and 60	216EC6B	2CMA103578R1000	10	0.11
	Red	380...415		216EC9B	2CMA103594R1000		
3P+E							
4	Red	380...415	50 and 60	316EC6B	2CMA103582R1000	10	0.16
	Blue	200...250		316EC9B	2CMA103583R1000		
3P+N+E							
5	Red	346...415	50 and 60	416EC6B	2CMA103590R1000	10	0.17
	Blue	208...250		416EC9B	2CMA103595R1000		

32 A. Splashproof
Housing in plastic (PA). Cable area 2.5...6 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Blue	200...250	50 and 60	232EC6B	2CMA103580R1000	10	0.20
	Red	380...415		232EC9B	2CMA103596R1000		
3P+E							
4	Red	380...415	50 and 60	332EC6B	2CMA103586R1000	10	0.22
	Blue	200...250		332EC9B	2CMA103587R1000		
3P+N+E							
5	Red	346...415	50 and 60	432EC6B	2CMA103592R1000	10	0.23
	Blue	208...250		432EC9B	2CMA103597R1000		



Dimensions (mm)

Type	A	B	Dmax
216EC...B	135.5	74.5	14
316EC...B	155	87	17
416EC...B	156	90.5	17
232EC...B	182	93.5	22
332EC...B	182	93.5	22
432EC...B	182.5	99	22

Inlets for wall mounting in black color

for entertainment applications, IP44

EASY & SAFE



316BS6B

16 A. Splashproof

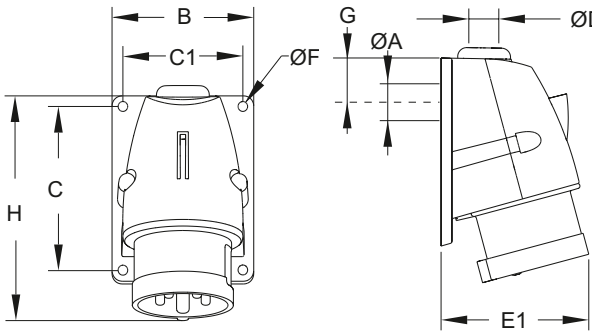
Housing in plastic (PA). Flexible membrane and metric threaded M20 insert for top cable entry.
Rear knock-out cable entry. Cable area 1...2.5 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Blue	200...250	50 and 60	216BS6B	2CMA101027R1000	10	0.15
	Red	380...415		216BS9B	2CMA101058R1000		
3P+E							
4	Red	380...415	50 and 60	316BS6B	2CMA101028R1000	10	0.19
	Blue	200.250		316BS9B	2CMA101059R1000		
3P+N+E							
5	Red	346...415		416BS6B	2CMA101029R1000	10	0.20
	Blue	208...250		416BS9B	2CMA101060R1000		

32 A. IP44. Splashproof

Housing in plastic (PA). Flexible membrane and metric threaded M25 insert for top cable entry.
Rear knock-out cable entry. Cable area 2.5...6 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Blue	200...250	50 and 60	232BS6B	2CMA101030R1000	10	0.25
	Red	380...415		232BS9B	2CMA101061R1000		
3P+E							
4	Red	380...415	50 and 60	332BS6B	2CMA101031R1000	10	0.27
	Blue	200...250		332BS9B	2CMA101062R1000		
3P+N+E							
5	Red	346...415	50 and 60	432BS6B	2CMA101032R1000	10	0.29
	Blue	208...250		432BS9B	2CMA101063R1000		



Dimensions (mm)

Type	A	B	C	C1	Dmax	E1	F	G	H
216BS...B	23	66	75	54	18/M20	72	5.5	27	110
316BS...B	23	79	91	67	18/M20	78	5.5	30	124
416BS...B	23	79	91	67	18/M20	81	5.5	30	125
232BS...B	29	85	111	72	22/M25	94	5.5	34	153
332BS...B	29	85	111	72	22/M25	94	5.5	34	153
432BS...B	29	85	111	72	22/M25	96	5.5	34	154

Socket outlet for wall mounting in black color

for entertainment applications, IP44

EASY & SAFE



316RS6B

16 A. Splashproof

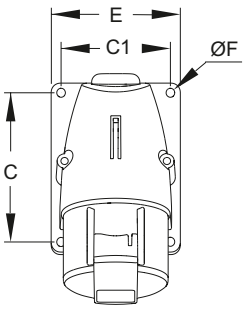
Housing in plastic (PA). Flexible membrane and metric threaded M20 insert for top cable entry.
Rear knock-out cable entry. Cable area 1.5...4 mm²

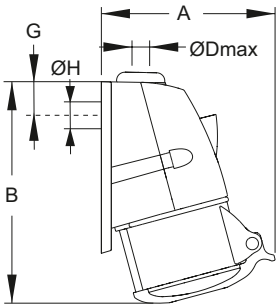
Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Blue	200...250	50 and 60	216RS6B	2CMA101021R1000	10	0.22
	Red	380...415		216RS9B	2CMA101052R1000		
3P+E							
4	Red	380...415	50 and 60	316RS6B	2CMA101022R1000	10	0.24
	Blue	200...250		316RS9B	2CMA101053R1000		
3P+N+E							
5	Red	346...415		416RS6B	2CMA101023R1000	10	0.26
	Blue	208...250		416RS9B	2CMA101054R1000		

32 A. Splashproof

Housing in plastic (PA). Flexible membrane and metric threaded M25 insert for top cable entry.
Rear knock-out cable entry. Cable area 2.5...10 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Blue	200...250	50 and 60	232RS6B	2CMA101024R1000	10	0.30
	Red	380...415		232RS9B	2CMA101055R1000		
3P+E							
4	Red	380...415	50 and 60	332RS6B	2CMA101025R1000	10	0.32
	Blue	200...250		332RS9B	2CMA101056R1000		
3P+N+E							
5	Red	346...415	50 and 60	432RS6B	2CMA101026R1000	10	0.34
	Blue	208...250		432RS9B	2CMA101057R1000		





Dimensions (mm)

Type	A	B	C	C1	Dmax	E	F	G	H
216RS...B	91	117	75	54	18/M20	66	5.5	27	23
316RS...B	100	132	91	67	18/M20	79	5.5	30	23
416RS...B	104	134	91	67	18/M20	79	5.5	30	23
232RS...B	118	163	111	72	22/M25	85	5.5	34	29
332RS...B	116	163	111	72	22/M25	85	5.5	34	29
432RS...B	121	164	111	72	22/M25	85	5.5	34	29

Socket outlet for panel mounting in black color

for entertainment applications, with unified straight flange, IP44

EASY & SAFE



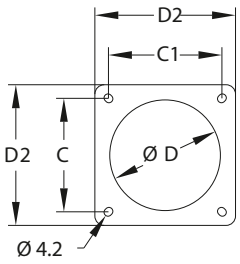
216RU6B

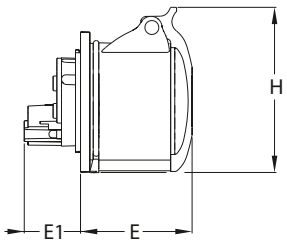
16 A. Splashproof
Housing in plastic (PA). Cable area 1.5...4 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Blue	200...250	50 and 60	216RU6B	2CMA101639R1000	10	0.15
3P+N+E							
5	Red	346...415	50 and 60	416RU6B	2CMA101640R1000	10	0.20

32 A. IP44. Splashproof
Housing in plastic (PA). Cable area 2.5...10 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
3P+N+E							
5	Red	346...415	50 and 60	432RU6B	2CMA101641R1000	10	0.24





Dimensions (mm)

Type	C	C1	D	D2	E	E1	H
216RU6B	60-61	60-61	49	75	56	29	79
416RU6B	60-61	60-61	59	75	60	31	89
432RU6B	60-61	60-61	66	75	71	34	99

Socket outlet for panel mounting in black color

for entertainment applications, with minimized angled flange IP44

EASY & SAFE



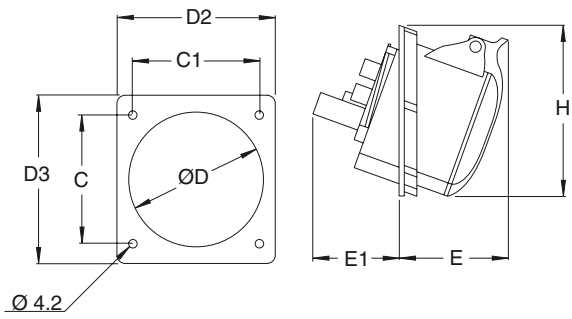
316RAM6B

16 A. Splashproof
Housing in plastic (PA). Cable area 1.5...4 mm²

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pkg qty	Weight pkg (1pce) kg
2P+E							
3	Blue	200...250	50 and 60	216RAM6B	2CMA100543R1000	10	0.21
	Red	380...415		216RAM9B	2CMA101048R1000		
3P+E							
4	Red	380...415	50 and 60	316RAM6B	2CMA100544R1000	10	0.22
	Blue	200...250		316RAM9B	2CMA100873R1000		
3P+N+E							
5	Red	346...415	50 and 60	416RAM6B	2CMA100545R1000	10	0.24
	Blue	208...250		416RAM9B	2CMA101049R1000		

32 A. Splashproof
Housing in plastic (PA). Cable area 2.5...10 mm²

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pkg qty	Weight pkg (1pce) kg
2P+E							
3	Blue	200...250	50 and 60	232RAM6B	2CMA100546R1000	10	0.21
	Red	380...415		232RAM9B	2CMA101050R1000		
3P+E							
4	Red	380...415	50 and 60	332RAM6B	2CMA100547R1000	10	0.22
	Blue	200...250		332RAM9B	2CMA100876R1000		
3P+N+E							
5	Red	346...415	50 and 60	432RAM6B	2CMA100548R1000	10	0.24
	Blue	208...250		432RAM9B	2CMA101051R1000		



Dimensions (mm)

Type	C	C1	D	D2	D3	E	E1	H
216RAM...B	55	55	63	70	78	53	42	76
316RAM...B	66	66	78	83	89	53	46	85
416RAM...B	66	66	78	83	89	55	48	89
232RAM...B	75	75	87	93	99	61	52	98
332RAM...B	75	75	87	93	99	61	52	98
432RAM...B	75	75	87	93	99	64	52	101

Industrial plugs and sockets
Fast & Safe

Plugs



Type QP..., 16 A...32 A, IP44



Type QP...W, 16 A...32 A, IP67

Connectors



Type QC..., 16 A...32 A, IP44



Type QC...W, 16 A...32 A, IP67

Inlets



For wall mounting, Type QBS...
16 A...32 A, IP44



For wall mounting, Type QBS...W
16 A...32 A, IP67



For panel mounting with unified straight flange, Type QB...
16 A...32 A, IP44



For panel mounting with unified straight flange, Type QB...W
16 A...32 A, IP67



For panel mounting with straight minimized flange, Type QBM...
16 A...32 A, IP44



For panel mounting with unified angled flange, Type QBA...
16 A...32 A, IP44



For panel mounting with unified angled flange. Type QBA...W
16 A...32 A, IP67

Socket outlet



For wall mounting, Type QRS...
16 A...32 A, IP44



For wall mounting, Type QRS...W
16A...32 A, IP67



For panel mounting with unified straight flange, Type QR...
16 A...32 A, IP44



For panel mounting with unified straight flange, Type QR...W
16 A...32 A, IP67



For panel mounting with unified angled flange, Type QRA...
16 A...32 A, IP44



For panel mounting with unified angled flange, Type QRA...W
16 A...32 A, IP67



For panel mounting with straight minimized flange, Type QRM...
16 A...32 A, IP44



For panel mounting with straight minimized flange, Type QRM...W
16 A...32 A, IP67

Industrial plugs and sockets
Screwless Fast & Safe

FAST & SAFE

In times with high focus on productivity screwless terminal connectors are growing in popularity. Actually up sixty percent of the installation time can be saved with screwless terminals.

We are now completing our standard offering with Fast & Safe in parallel with Easy & Safe. Fast & Safe is a complete offering of 16-32A plugs and sockets, both as IP44 and IP67. Instead of a screw providing contact pressure at the terminal, Fast & Safe is built on spring technology. More than reducing installation time spring technology has high resistance against vibrations and heat fluctuations.



Plugs
IP44

FAST & SAFE



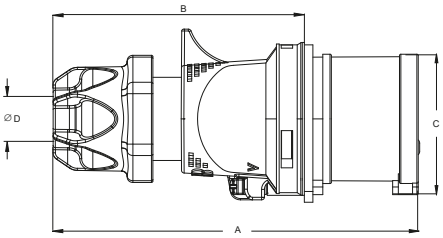
432QP6

16 A. Splashproof
Housing in plastic (PA). Fast connection. Cable entry with compression gland. Cable area 1...2.5 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	216QP4	2CMA102579R1000	10	0.15
	Blue	200...250		216QP6	2CMA102286R1000		
	Red	380...415		216QP9	2CMA102858R1000		
3P+E							
4	Yellow	100...130	50 and 60	316QP4	2CMA102598R1000	10	0.16
	Red	380...415		316QP6	2CMA102305R1000		
	Blue	200...250		316QP9	2CMA102877R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	416QP4	2CMA102617R1000	10	0.18
	Red	346...415		416QP6	2CMA102324R1000		
	Blue	208...250		416QP9	2CMA102896R1000		

32 A. Splashproof
Housing in plastic (PA). Fast connection. Cable entry with compression gland. Cable area 2.5...6 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	232QP4	2CMA102638R1000	10	0.18
	Blue	200...250		232QP6	2CMA102345R1000		
	Red	380...415		232QP9	2CMA102917R1000		
3P+E							
4	Yellow	100...130	50 and 60	332QP4	2CMA102690R1000	10	0.20
	Red	380...415		332QP6	2CMA102364R1000		
	Blue	200...250		332QP9	2CMA102936R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	432QP4	2CMA102709R1000	10	0.24
	Red	346...415		432QP6	2CMA102383R1000		
	Blue	208...250		432QP9	2CMA102955R1000		



Dimensions (mm)

Type	A	B	C	ØD
216QP...	124	83	47	6-13
316QP...	129	89	53	6-13
416QP...	136	96	61	6-13
232QP...	149	100	63	11-20
332QP...	149	100	63	11-20
432QP...	156	107	70	11-20

Connectors

IP44



216QC6

16 A. Splashproof

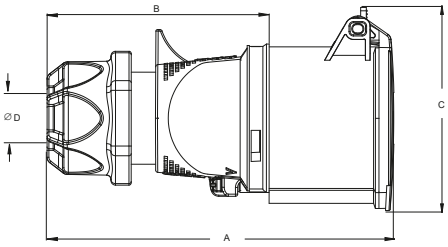
Housing in plastic (PA). Fast connection. Cable entry with compression gland. Cable area 1...2.5 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	216QC4	2CMA102580R1000	10	0.18
	Blue	200...250		216QC6	2CMA102287R1000		
	Red	380...415		216QC9	2CMA102859R1000		
3P+E							
4	Yellow	100...130	50 and 60	316QC4	2CMA102599R1000	10	0.21
	Red	380...415		316QC6	2CMA102306R1000		
	Blue	200...250		316QC9	2CMA102878R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	416QC4	2CMA102618R1000	10	0.25
	Red	346...415		416QC6	2CMA102325R1000		
	Blue	208...250		416QC9	2CMA102897R1000		

32 A. Splashproof

Housing in plastic (PA). Fast connection. Cable entry with compression gland. Cable area 2.5...6 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	232QC4	2CMA102639R1000	10	0.25
	Blue	200...250		232QC6	2CMA102346R1000		
	Red	380...415		232QC9	2CMA102918R1000		
3P+E							
4	Yellow	100...130	50 and 60	332QC4	2CMA102691R1000	10	0.26
	Red	380...415		332QC6	2CMA102365R1000		
	Blue	200...250		332QC9	2CMA102937R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	432QC4	2CMA102710R1000	10	0.26
	Red	346...415		432QC6	2CMA102384R1000		
	Blue	208...250		432QC9	2CMA102956R1000		



Dimensions (mm)

Type	A	B	C	ØD
216QC...	128	83	72	6-13
316QC...	135	89	78	6-13
416QC...	142	96	87	6-13
232QC...	156	100	91	11-20
332QC...	156	100	91	11-20
432QC...	162	107	97	11-20

Inlets

for wall mounting, IP44

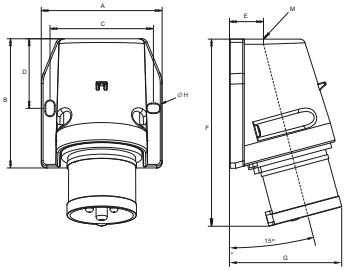
FAST & SAFE



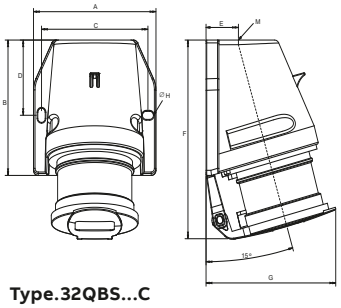
416QBS6

16 A. Splashproof
Housing in plastic (PA). Fast connection. Cable entry with compression gland. Cable area 1...2.5 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	216QBS4	2CMA102587R1000	5	0.22
	Yellow	100...130		216QBS4C	2CMA102588R1000		0.25
	Blue	200...250		216QBS6	2CMA102294R1000		0.22
	Blue	200...250		216QBS6C	2CMA102295R1000		0.25
	Red	380...415		216QBS9	2CMA102866R1000		0.22
	Red	380...415		216QBS9C	2CMA102867R1000		0.25
3P+E							
4	Yellow	100...130	50 and 60	316QBS4	2CMA102606R1000	5	0.22
	Yellow	100...130		316QBS4C	2CMA102607R1000		0.25
	Red	380...415		316QBS6	2CMA102313R1000		0.22
	Red	380...415		316QBS6C	2CMA102314R1000		0.25
	Blue	200...250		316QBS9	2CMA102885R1000		0.22
	Blue	200...250		316QBS9C	2CMA102886R1000		0.25
3P+N+E							
5	Yellow	100...130	50 and 60	416QBS4	2CMA102626R1000	5	0.22
	Yellow	100...130		416QBS4C	2CMA102627R1000		0.25
	Red	346...415		416QBS6	2CMA102333R1000		0.22
	Red	346...415		416QBS6C	2CMA102334R1000		0.25
	Blue	208...250		416QBS9	2CMA102905R1000		0.22
	Blue	208...250		416QBS9C	2CMA102906R1000		0.25



Type .32QBS...



Type.32QBS...C

Dimensions (mm)

Type	A	B	C	D	E	F	G	ØH	M
216QBS...	75	80	64	43	20	116	70	5.3	M20x1.5
216QBS...C	75	80	64	43	20	116.3	70.3	5.3	M20x1.5
316QBS...	88	88	76	48.5	22	123	77	5.3	M25x1.5
316QBS...C	88	88	76	48.5	22	123.3	77.3	5.3	M25x1.5
416QBS...	88	88	76	48.5	22	123	84	5.3	M25x1.5
416QBS...C	88	88	76	48.5	22	123.3	84.3	5.3	M25x1.5

Inlets

for wall mounting, IP44

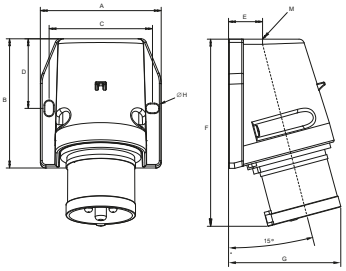


432QBS6

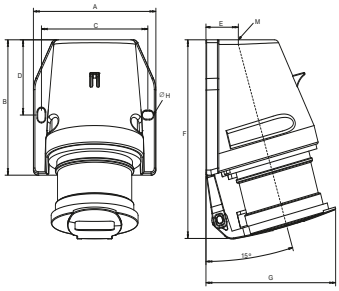
32 A. Splashproof

Housing in plastic (PA). Fast connection. Cable entry with compression gland. Cable area 2.5...6 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Yellow	100...130	50 and 60	232QBS4	2CMA102646R1000	5	0.22
		Yellow	100...130		232QBS4C	2CMA102647R1000		0.25
		Blue	200...250		232QBS6	2CMA102353R1000		0.22
		Blue	200...250		232QBS6C	2CMA102354R1000		0.25
		Red	380...415		232QBS9	2CMA102925R1000		0.22
		Red	380...415		232QBS9C	2CMA102926R1000		0.25
3P+E								
4		Yellow	100...130	50 and 60	332QBS4	2CMA102698R1000	5	0.29
		Yellow	100...130		332QBS4C	2CMA102699R1000		0.31
		Red	380...415		332QBS6	2CMA102372R1000		0.29
		Red	380...415		332QBS6C	2CMA102373R1000		0.31
		Blue	200...250		332QBS9	2CMA102944R1000		0.29
		Blue	200...250		332QBS9C	2CMA102945R1000		0.31
3P+N+E								
5		Yellow	100...130	50 and 60	432QBS4	2CMA102718R1000	5	0.31
		Yellow	100...130		432QBS4C	2CMA102719R1000		0.35
		Red	346...415		432QBS6	2CMA102392R1000		0.31
		Red	346...415		432QBS6C	2CMA102393R1000		0.35
		Blue	208...250		432QBS9	2CMA102964R1000		0.31
		Blue	208...250		432QBS9C	2CMA102965R1000		0.35



Type .32QBS...



Type.32QBS...C

Dimensions (mm)

Type	A	B	C	D	E	F	G	ØH	M
232QBS...	88	88	76	48.5	22	132	87	5.3	M25x1.5
232QBS...C	88	88	76	48.5	22.3	132.3	87	5.3	M25x1.5
332QBS...	88	88	76	48.5	22	132	87	5.3	M25x1.5
332QBS...C	88	88	76	48.5	22.3	132.3	87	5.3	M25x1.5
432QBS...	96	102	84	56	26	146	94	5.3	M32x1.5
432QBS...C	96	102	84	56	26.3	146.3	94	5.3	M32x1.5

Inlets

for panel mounting with unified straight flange, IP44

FAST & SAFE



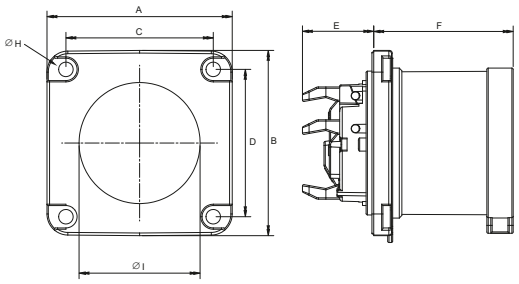
432QB6

16 A. Splashproof
Housing in plastic (PA). Fast connection. Cable area 1...2.5 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
3P+N+E							
5	Yellow	100...130	50 and 60	416QB4	2CMA102624R1000	10	0.13
	Red	346...415		416QB6	2CMA102331R1000		
	Blue	208...250		416QB9	2CMA102903R1000		

32 A. Splashproof
Housing in plastic (PA). Fast connection.Cable area 2.5...6 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
3P+N+E							
5	Yellow	100...130	50 and 60	432QB4	2CMA102716R1000	10	0.17
	Red	346...415		432QB6	2CMA102390R1000		
	Blue	208...250		432QB9	2CMA102962R1000		



Dimensions (mm)

Type	A	B	C	D	E	F	ØH	ØI
416QB...	75	75	60	60	23	44	5.5	56
432QB...	75	75	60	60	27	53	5.5	60

Inlets

for panel mounting with unified angled flange, IP44

FAST & SAFE



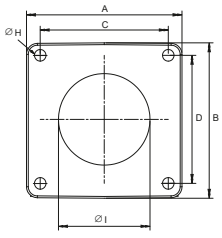
432QBA6

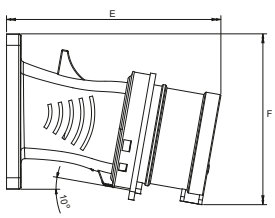
16 A. Splashproof
Housing in plastic (PA). Cable area 1...2.5 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	216QBA4	2CMA102586R1000	10	0.15
	Blue	200...250		216QBA6	2CMA102293R1000		
	Red	380...415		216QBA9	2CMA102865R1000		
3P+E							
4	Yellow	100...130	50 and 60	316QBA4	2CMA102605R1000	10	0.18
	Red	380...415		316QBA6	2CMA102312R1000		
	Blue	200...250		316QBA9	2CMA102884R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	416QBA4	2CMA102625R1000	10	0.22
	Red	346...415		416QBA6	2CMA102332R1000		
	Blue	208...250		416QBA9	2CMA102904R1000		

32 A. Splashproof
Housing in plastic (PA). Cable area 2.5...6 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	232QBA4	2CMA102645R1000	10	0.17
	Blue	200...250		232QBA6	2CMA102352R1000		
	Red	380...415		232QBA9	2CMA102924R1000		
3P+E							
4	Yellow	100...130	50 and 60	332QBA4	2CMA102697R1000	10	0.20
	Red	380...415		332QBA6	2CMA102371R1000		
	Blue	200...250		332QBA9	2CMA102943R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	432QBA4	2CMA102717R1000	10	0.48
	Red	346...415		432QBA6	2CMA102391R1000		
	Blue	208...250		432QBA9	2CMA102963R1000		





Dimensions (mm)

Type	A	B	C	D	E	F	ØH	ØI
216QBA...	85	85	70	70	106	85	6.3	50
316QBA...	85	85	70	70	112	88	6.3	50
416QBA...	85	85	70	70	117	94	6.3	50
232QBA...	85	85	70	70	126	96	6.3	50
332QBA...	85	85	70	70	126	96	6.3	50
432QBA...	85	85	70	70	133	102	6.3	50

Inlets

for panel mounting with straight minimized flange, IP44

FAST & SAFE



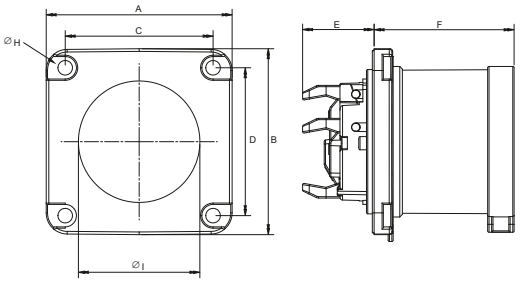
216QBM6

16 A. Splashproof
Housing in plastic (PA). Cable area 1...2.5 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Yellow	100...130	50 and 60	216QBM4	2CMA102585R1000	10	0.10
		Blue	200...250		216QBM6	2CMA102292R1000		
		Red	380...415		216QBM9	2CMA102864R1000		
3P+E								
4		Yellow	100...130	50 and 60	316QBM4	2CMA102604R1000	10	0.13
		Red	380...415		316QBM6	2CMA102311R1000		
		Blue	200...250		316QBM9	2CMA102883R1000		
3P+N+E								
5		Yellow	100...130	50 and 60	416QBM4	2CMA102623R1000	10	0.13
		Red	346...415		416QBM6	2CMA102330R1000		
		Blue	208...250		416QBM9	2CMA102902R1000		

32 A. Splashproof
Housing in plastic (PA). Cable area 2.5...6 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Yellow	100...130	50 and 60	232QBM4	2CMA102644R1000	10	0.11
		Blue	200...250		232QBM6	2CMA102351R1000		
		Red	380...415		232QBM6	2CMA102923R1000		
3P+E								
4		Yellow	100...130	50 and 60	332QBM4	2CMA102696R1000	10	0.15
		Red	380...415		332QBM6	2CMA102370R1000		
		Blue	200...250		332QBM9	2CMA102942R1000		
3P+N+E								
5		Yellow	100...130	50 and 60	432QBM4	2CMA102715R1000	10	0.17
		Red	346...415		432QBM6	2CMA102389R1000		
		Blue	208...250		432QBM9	2CMA102961R1000		



Dimensions (mm)

Type	A	B	C	D	E	F	ØH	ØI
216QBM...	70	70	56	56	23	44	5.5	44
316QBM...	70	70	56	56	23	44	5.5	52
416QBM...	70	70	56	56	23	44	5.5	56
232QBM...	70	70	56	56	27	53	5.5	56
332QBM...	70	70	56	56	27	53	5.5	56
432QBM...	70	70	56	56	27	53	5.5	60

Socket outlet

for wall mounting, IP44

FAST & SAFE



432QRS6

16 A. Splashproof

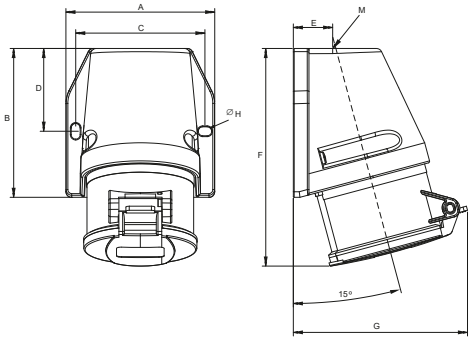
Housing in plastic (PA). Fast connection. Cable entry with compression gland. Cable area 1.5...4 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	216QRS4	2CMA102584R1000	10	0.25
	Blue	200...250		216QRS6	2CMA102291R1000		
	Red	380...415		216QRS9	2CMA102863R1000		
3P+E							
4	Yellow	100...130	50 and 60	316QRS4	2CMA102603R1000	10	0.27
	Red	380...415		316QRS6	2CMA102310R1000		
	Blue	200...250		316QRS9	2CMA102882R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	416QRS4	2CMA102622R1000	10	0.29
	Red	346...415		416QRS6	2CMA102329R1000		
	Blue	208...250		416QRS9	2CMA102901R1000		

32 A. Splashproof

Housing in plastic (PA). Fast connection. Cable entry with compression gland. Cable area 2.5...10 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	232QRS4	2CMA102643R1000	10	0.30
	Blue	200...250		232QRS6	2CMA102350R1000		
	Red	380...415		232QRS9	2CMA102922R1000		
3P+E							
4	Yellow	100...130	50 and 60	332QRS4	2CMA102695R1000	10	0.33
	Red	380...415		332QRS6	2CMA102369R1000		
	Blue	200...250		332QRS9	2CMA102941R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	432QRS4	2CMA102714R1000	10	0.36
	Red	346...415		432QRS6	2CMA102388R1000		
	Blue	208...250		432QRS9	2CMA102960R1000		



Dimensions (mm)

Type	A	B	C	D	E	F	G	ØH	M
216QRS...	75	80	64	43	20	121	88	5.3	M20x1.5
316QRS...	88	88	76	48.5	22	128	96	5.3	M25x1.5
416QRS...	88	88	76	48.5	22	128	103	5.3	M25x1.5
232QRS...	88	88	76	48.5	22	139	106	5.3	M25x1.5
332QRS...	88	88	76	48.5	22	139	106	5.3	M25x1.5
432QRS...	88	102	84	56	26	152	113	5.3	M32x1.5

Socket outlet

for panel mounting with unified straight flange, IP44

FAST & SAFE



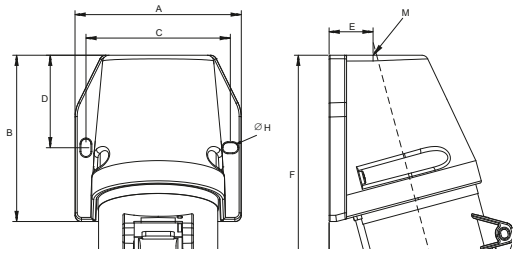
216QR6

16 A. Splashproof
Housing in plastic (PA). Cable area 1.5...4 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	216QR4	2CMA102582R1000	10	0.11
	Blue	200...250		216QR6	2CMA102289R1000		
	Red	380...415		216QR9	2CMA102861R1000		
3P+E							
4	Yellow	100...130	50 and 60	316QR4	2CMA102601R1000	10	0.13
	Red	380...415		316QR6	2CMA102308R1000		
	Blue	200...250		316QR9	2CMA102880R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	416QR4	2CMA102620R1000	10	0.15
	Red	346...415		416QR6	2CMA102327R1000		
	Blue	208...250		416QR9	2CMA102899R1000		

32 A. Splashproof
Housing in plastic (PA). Cable area 2.5...10 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	232QR4	2CMA102641R1000	10	0.15
	Blue	200...250		232QR6	2CMA102348R1000		
	Red	380...415		232QR9	2CMA102920R1000		
3P+E							
4	Yellow	100...130	50 and 60	332QR4	2CMA102693R1000	10	0.16
	Red	380...415		332QR6	2CMA102367R1000		
	Blue	200...250		332QR9	2CMA102939R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	432QR4	2CMA102712R1000	10	0.18
	Red	346...415		432QR6	2CMA102386R1000		
	Blue	208...250		432QR9	2CMA102958R1000		



Dimensions (mm)

Type	A	B	C	D	E	F	G	ØH	ØI	K
216QR...	75	75	60	60	24	49	95	5.5	44	86
316QR...	75	75	60	60	24	49	102	5.5	49	90
416QR...	75	75	60	60	24	49	110	5.5	56	94
232QR...	75	75	60	60	30	58	122	5.5	56	98
332QR...	75	75	60	60	30	58	122	5.5	56	98
432QR...	75	75	60	60	30	58	128	5.5	60	105

Socket outlet

for panel mounting with unified angled flange, IP44

FAST & SAFE



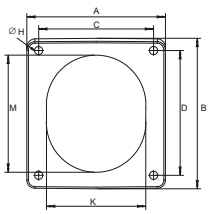
432QRA6

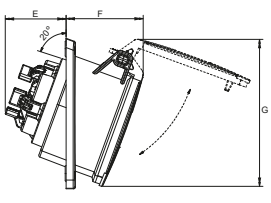
16 A. Splashproof
Housing in plastic (PA). Cable area 1.5...4 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	216QRA4	2CMA102583R1000	10	0.15
	Blue	200...250		216QRA6	2CMA102290R1000		
	Red	380...415		216QRA9	2CMA102862R1000		
3P+E							
4	Yellow	100...130	50 and 60	316QRA4	2CMA102602R1000	10	0.16
	Red	380...415		316QRA6	2CMA102309R1000		
	Blue	200...250		316QRA9	2CMA102881R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	416QRA4	2CMA102621R1000	10	0.16
	Red	346...415		416QRA6	2CMA102328R1000		
	Blue	208...250		416QRA9	2CMA102900R1000		

32 A. Splashproof
Housing in plastic (PA). Cable area 2.5...10 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	232QRA4	2CMA102642R1000	10	0.20
	Blue	200...250		232QRA6	2CMA102349R1000		
	Red	380...415		232QRA9	2CMA102921R1000		
3P+E							
4	Yellow	100...130	50 and 60	332QRA4	2CMA102694R1000	10	0.22
	Red	380...415		332QRA6	2CMA102368R1000		
	Blue	200...250		332QRA9	2CMA102940R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	432QRA4	2CMA102713R1000	10	0.40
	Red	346...415		432QRA6	2CMA102387R1000		
	Blue	208...250		432QRA9	2CMA102959R1000		





Dimensions (mm)

Type	A	B	C	D	E	F	G	ØH	K	M
216QRA...	83	90	70	76	37	43	90	5	52	65
316QRA...	83	90	70	76	37	45	90	5	56	68
416QRA...	83	90	70	76	37	47	90	5	62	72
232QRA...	83	90	70	76	43	54	98	5	66	76
332QRA...	83	90	70	76	43	54	98	5	66	76
432QRA...	83	90	70	76	49	51	100	5	72	82

Socket outlet

for panel mounting with straight minimized flange, IP44

FAST & SAFE



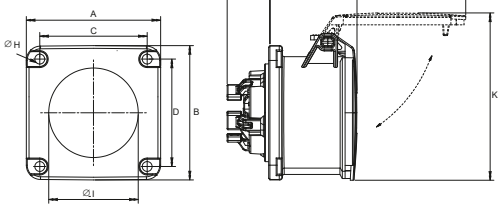
216QRM6

16 A. Splashproof
Housing in plastic (PA). Fast connection. Cable area 1.5...4 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	216QRM4	2CMA102581R1000	10	0.11
	Blue	200...250		216QRM6	2CMA102288R1000		
	Red	380...415		216QRM9	2CMA102860R1000		
3P+E							
4	Yellow	100...130	50 and 60	316QRM4	2CMA102600R1000	10	0.13
	Red	380...415		316QRM6	2CMA102307R1000		
	Blue	200...250		316QRM9	2CMA102879R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	416QRM4	2CMA102619R1000	10	0.15
	Red	346...415		416QRM6	2CMA102326R1000		
	Blue	208...250		416QRM9	2CMA102898R1000		

32 A. Splashproof
Housing in plastic (PA). Fast connection.Cable area 2.5...10 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	232QRM4	2CMA102640R1000	10	0.14
	Blue	200...250		232QRM6	2CMA102347R1000		
	Red	380...415		232QRM9	2CMA102919R1000		
3P+E							
4	Yellow	100...130	50 and 60	332QRM4	2CMA102692R1000	10	0.15
	Red	380...415		332QRM6	2CMA102366R1000		
	Blue	200...250		332QRM9	2CMA102938R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	432QRM4	2CMA102711R1000	10	0.18
	Red	346...415		432QRM6	2CMA102385R1000		
	Blue	208...250		432QRM9	2CMA102957R1000		



Dimensions (mm)

Type	A	B	C	D	E	F	G	ØH	ØI	K
216QRM...	70	70	56	56	24	49	95	5.5	44	86
316QRM...	70	70	56	56	24	49	102	5.5	49	90
416QRM...	70	70	56	56	24	49	110	5.5	56	94
232QRM...	70	70	56	56	30	58	122	5.5	56	98
332QRM...	70	70	56	56	30	58	122	5.5	56	98
432QRM...	70	70	56	56	30	58	128	5.5	60	104

Plugs
IP67



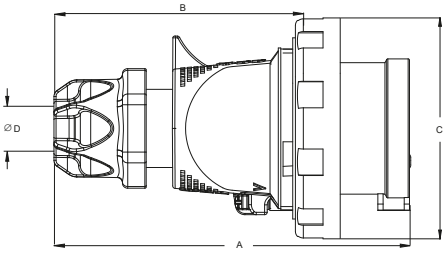
432QP6W

16 A. Watertight
Housing in plastic (PA). Fast connection. Cable entry with compression gland. Cable area 1...2.5 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	216QP4W	2CMA102589R1000	10	0.17
	Blue	200...250		216QP6W	2CMA102296R1000		
	Red	380...415		216QP9W	2CMA102868R1000		
3P+E							
4	Yellow	100...130	50 and 60	316QP4W	2CMA102608R1000	10	0.19
	Red	380...415		316QP6W	2CMA102315R1000		
	Blue	200...250		316QP9W	2CMA102887R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	416QP4W	2CMA102628R1000	10	0.23
	Red	346...415		416QP6W	2CMA102335R1000		
	Blue	208...250		416QP9W	2CMA102907R1000		

32 A. Watertight
Housing in plastic (PA). Fast connection. Cable entry with compression gland. Cable area 2.5...6 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	232QP4W	2CMA102648R1000	10	0.23
	Blue	200...250		232QP6W	2CMA102355R1000		
	Red	380...415		232QP9W	2CMA102927R1000		
3P+E							
4	Yellow	100...130	50 and 60	332QP4W	2CMA102700R1000	10	0.25
	Red	380...415		332QP6W	2CMA102374R1000		
	Blue	200...250		332QP9W	2CMA102946R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	432QP4W	2CMA102720R1000	10	0.29
	Red	346...415		432QP6W	2CMA102394R1000		
	Blue	208...250		432QP9W	2CMA102966R1000		



Dimensions (mm)

Type	A	B	C	ØD
216QP...	124	83	72	6-13
316QP...	129	89	81	6-13
416QP...	136	96	89	6-13
232QP...	149	100	93	11-20
332QP...	149	100	93	11-20
432QP...	156	107	102	11-20

Connectors

IP67

FAST & SAFE



432QC6W

16 A. Watertight

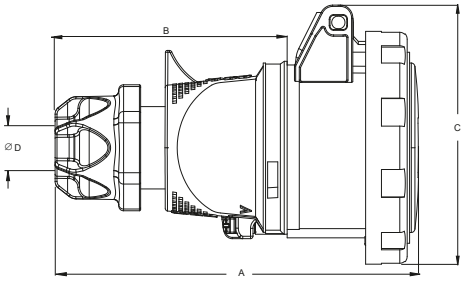
Housing in plastic (PA). Fast connection. Cable entry with compression gland. Cable area 1...2.5 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	216QC4W	2CMA102590R1000	10	0.20
	Blue	200...250		216QC6W	2CMA102297R1000		
	Red	380...415		216QC9W	2CMA102869R1000		
3P+E							
4	Yellow	100...130	50 and 60	316QC4W	2CMA102609R1000	10	0.25
	Red	380...415		316QC6W	2CMA102316R1000		
	Blue	200...250		316QC9W	2CMA102888R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	416QC4W	2CMA102629R1000	10	0.27
	Red	346...415		416QC6W	2CMA102336R1000		
	Blue	208...250		416QC9W	2CMA102908R1000		

32 A. Watertight

Housing in plastic (PA). Fast connection. Cable entry with compression gland. Cable area 2.5...6 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	232QC4W	2CMA102649R1000	10	0.29
	Blue	200...250		232QC6W	2CMA102356R1000		
	Red	380...415		232QC9W	2CMA102928R1000		
3P+E							
4	Yellow	100...130	50 and 60	332QC4W	2CMA102701R1000	10	0.31
	Red	380...415		332QC6W	2CMA102375R1000		
	Blue	200...250		332QC9W	2CMA102947R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	432QC4W	2CMA102721R1000	10	0.32
	Red	346...415		432QC6W	2CMA102395R1000		
	Blue	208...250		432QC9W	2CMA102967R1000		



Dimensions (mm)

Type	A	B	C	ØD
216QC...W	137	83	82	6-13
316QC...W	143	89	89	6-13
416QC...W	150	96	99	6-13
232QC...W	166	100	102	11-20
332QC...W	166	100	102	11-20
432QC...W	173	107	109	11-20

Inlets

for wall mounting, IP67

FAST & SAFE



216QBS6W

16 A. Watertight

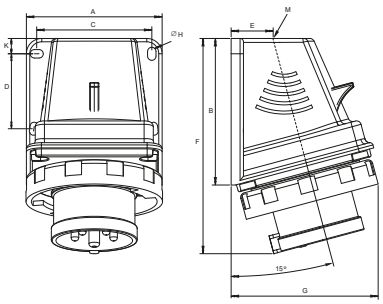
Housing in plastic (PA). Fast connection. Cable entry with compression gland. Cable area 1...2.5 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	216QBS4W	2CMA102597R1000	10	0.23
	Blue	200...250		216QBS6W	2CMA102304R1000		
	Red	380...415		216QBS9W	2CMA102876R1000		
3P+E							
4	Yellow	100...130	50 and 60	316QBS4W	2CMA102616R1000	10	0.29
	Red	380...415		316QBS6W	2CMA102323R1000		
	Blue	200...250		316QBS9W	2CMA102895R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	416QBS4W	2CMA102637R1000	10	0.30
	Red	346...415		416QBS6W	2CMA102344R1000		
	Blue	208...250		416QBS9W	2CMA102916R1000		

32 A. Watertight

Housing in plastic (PA). Fast connnection. Cable entry with compression gland. Cable area 2.5...6 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	232QBS4W	2CMA102689R1000	10	0.24
	Blue	200...250		232QBS6W	2CMA102363R1000		
	Red	380...415		232QBS9W	2CMA102935R1000		
3P+E							
4	Yellow	100...130	50 and 60	332QBS4W	2CMA102708R1000	10	0.26
	Red	380...415		332QBS6W	2CMA102382R1000		
	Blue	200...250		332QBS9W	2CMA102954R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	432QBS4W	2CMA102727R1000	10	0.37
	Red	346...415		432QBS6W	2CMA102401R1000		
	Blue	208...250		432QBS9W	2CMA102973R1000		



Dimensions (mm)

Type	A	B	C	D	E	F	G	K	ØH	M
216QBS...W	88.5	95.5	75	49	23.5	138	93	10	5.5	M25x1.5
316QBS...W	88.5	95.5	75	49	23.5	140	93	10	5.5	M25x1.5
416QBS...W	88.5	95.5	75	49	23.5	140	96	10	5.5	M25x1.5
232QBS...W	88.5	95.5	75	49	23.5	149	99	10	5.5	M25x1.5
332QBS...W	88.5	95.5	75	49	23.5	149	99	10	5.5	M25x1.5
432QBS...W	88.5	95.5	75	49	23.5	151	103	10	5.5	M25x1.5

Inlets

for panel mounting with unified straight flange, IP67

FAST & SAFE



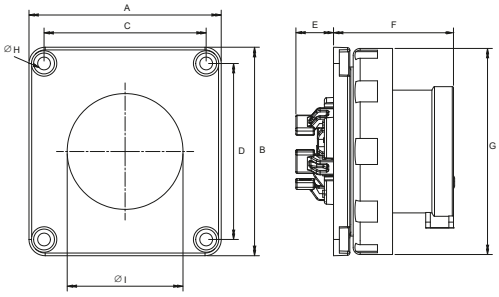
216QB6W

16 A. Watertight
Housing in plastic (PA). Cable area 1...2.5 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	216QB4W	2CMA102595R1000	10	0.12
	Blue	200...250		216QB6W	2CMA102302R1000		
	Red	380...415		216QB9W	2CMA102874R1000		
3P+E							
4	Yellow	100...130	50 and 60	316QB4W	2CMA102614R1000	10	0.14
	Red	380...415		316QB6W	2CMA102321R1000		
	Blue	200...250		316QB9W	2CMA102893R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	416QB4W	2CMA102635R1000	10	0.18
	Red	346...415		416QB6W	2CMA102342R1000		
	Blue	208...250		416QB9W	2CMA102914R1000		

32 A. Watertight
Housing in plastic (PA). Cable area 2.5...6 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	232QB4W	2CMA102687R1000	10	0.20
	Blue	200...250		232QB6W	2CMA102361R1000		
	Red	380...415		232QB9W	2CMA102933R1000		
3P+E							
4	Yellow	100...130	50 and 60	332QB4W	2CMA102706R1000	10	0.22
	Red	380...415		332QB6W	2CMA102380R1000		
	Blue	200...250		332QB9W	2CMA102952R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	432QB4W	2CMA102725R1000	10	0.24
	Red	346...415		432QB6W	2CMA102399R1000		
	Blue	208...250		432QB9W	2CMA102971R1000		



Dimensions (mm)

Type	A	B	C	D	E	F	G	ØH	ØI
216QB...W	83	90	70	76	17	52	90	5.5	65
316QB...W	83	90	70	76	17	52	90	5.5	65
416QB...W	83	90	70	76	17	52	90	5.5	65
232QB...W	83	90	70	76	21	61	93	5.5	65
332QB...W	83	90	70	76	21	61	93	5.5	65
432QB...W	83	90	70	76	21	61	102	5.5	65

Inlets

for panel mounting with unified angled flange, IP67

FAST & SAFE



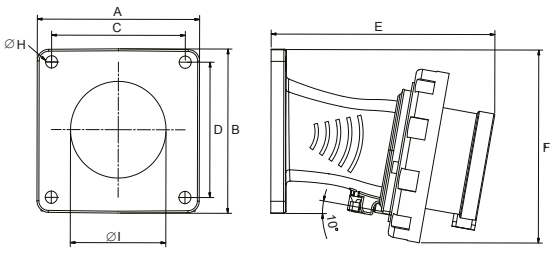
432QBA6W

16 A. Watertight
Housing in plastic (PA). Cable area 1...2.5 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	216QBA4W	2CMA102596R1000	10	0.12
	Blue	200...250		216QBA6W	2CMA102303R1000		
	Red	380...415		216QBA9W	2CMA102875R1000		
3P+E							
4	Yellow	100...130	50 and 60	316QBA4W	2CMA102615R1000	10	0.22
	Red	380...415		316QBA6W	2CMA102322R1000		
	Blue	200...250		316QBA9W	2CMA102894R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	416QBA4W	2CMA102636R1000	10	0.24
	Red	346...415		416QBA6W	2CMA102343R1000		
	Blue	208...250		416QBA9W	2CMA102915R1000		

32 A. Watertight
Housing in plastic (PA). Cable area 2.5...6 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	232QBA4W	2CMA102688R1000	10	0.18
	Blue	200...250		232QBA6W	2CMA102362R1000		
	Red	380...415		232QBA9W	2CMA102934R1000		
3P+E							
4	Yellow	100...130	50 and 60	332QBA4W	2CMA102707R1000	10	0.20
	Red	380...415		332QBA6W	2CMA102381R1000		
	Blue	200...250		332QBA9W	2CMA102953R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	432QBA4W	2CMA102726R1000	10	0.25
	Red	346...415		432QBA6W	2CMA102400R1000		
	Blue	208...250		432QBA9W	2CMA102972R1000		



Dimensions (mm)

Type	A	B	C	D	E	F	G	ØH	K	M
216QBA...W	83	90	70	76	37	50	103	5	52	65
316QBA...W	83	90	70	76	37	52	109	5	56	68
416QBA...W	83	90	70	76	37	55	119	5	62	72
232QBA...W	83	90	70	76	43	62	125	5	66	76
332QBA...W	83	90	70	76	43	62	125	5	66	76
432QBA...W	83	90	70	76	49	59	133	5	72	82

Socket outlet

for wall mounting, IP67

FAST & SAFE



232QRS6W

16 A. Watertight

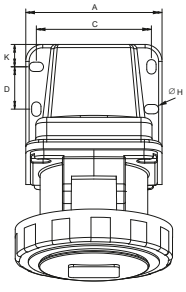
Housing in plastic (PA). Fast connection. Cable entry with compression gland. Cable area 1.5...4 mm²

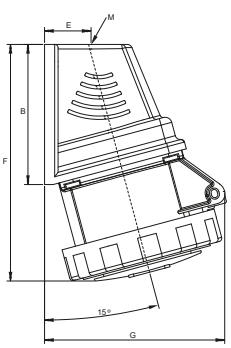
Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	216QRS4W	2CMA102593R1000	5	0.25
	Blue	200...250		216QRS6W	2CMA102300R1000		
	Red	380...415		216QRS9W	2CMA102872R1000		
3P+E							
4	Yellow	100...130	50 and 60	316QRS4W	2CMA102612R1000	5	0.28
	Red	380...415		316QRS6W	2CMA102319R1000		
	Blue	200...250		316QRS9W	2CMA102891R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	416QRS4W	2CMA102633R1000	10	0.36
	Red	346...415		416QRS6W	2CMA102340R1000		
	Blue	208...250		416QRS9W	2CMA102912R1000		

32 A. Watertight

Housing in plastic (PA). Fast connection. Cable entry with compression gland. Cable area 2.5...10 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	232QRS4W	2CMA102652R1000	5	0.38
	Blue	200...250		232QRS6W	2CMA102359R1000		
	Red	380...415		232QRS9W	2CMA102931R1000		
3P+E							
4	Yellow	100...130	50 and 60	332QRS4W	2CMA102704R1000	5	0.39
	Red	380...415		332QRS6W	2CMA102378R1000		
	Blue	200...250		332QRS9W	2CMA102950R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	432QRS4W	2CMA102724R1000	5	0.42
	Red	346...415		432QRS6W	2CMA102398R1000		
	Blue	208...250		432QRS9W	2CMA102970R1000		





Dimensions (mm)

Type	A	B	C	D	E	F	G	K	ØH	M
216QRS...W	80.5	83	68	25	23.5	130	97	13.5	5.5	M25x1.5
316QRS...W	80.5	83	68	25	23.5	132	98	13.5	5.5	M25x1.5
416QRS...W	80.5	83	68	25	23.5	133	104	13.5	5.5	M25x1.5
232QRS...W	80.5	83	68	25	23.5	140	108	13.5	5.5	M25x1.5
332QRS...W	80.5	83	68	25	23.5	140	108	13.5	5.5	M25x1.5
432QRS...W	80.5	83	68	25	23.5	143	108	13.5	5.5	M25x1.5

Sockets outlet

for panel mounting with unified straight flange, IP67

FAST & SAFE



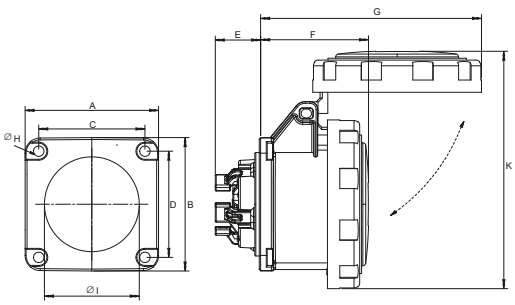
432QR6W

16 A. Watertight
Housing in plastic (PA). Cable area 1.5...4 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	216QR4W	2CMA102591R1000	10	0.13
	Blue	200...250		216QR6W	2CMA102298R1000		
	Red	380...415		216QR9W	2CMA102870R1000		
3P+E							
4	Yellow	100...130	50 and 60	316QR4W	2CMA102610R1000	10	0.14
	Red	380...415		316QR6W	2CMA102317R1000		
	Blue	200...250		316QR9W	2CMA102889R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	416QR4W	2CMA102631R1000	10	0.15
	Red	346...415		416QR6W	2CMA102338R1000		
	Blue	208...250		416QR9W	2CMA102910R1000		

32 A. Watertight
Housing in plastic (PA). Cable area 2.5...10 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	232QR4W	2CMA102650R1000	10	0.18
	Blue	200...250		232QR6W	2CMA102357R1000		
	Red	380...415		232QR9W	2CMA102929R1000		
3P+E							
4	Yellow	100...130	50 and 60	332QR4W	2CMA102702R1000	10	0.25
	Red	380...415		332QR6W	2CMA102376R1000		
	Blue	200...250		332QR9W	2CMA102948R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	432QR4W	2CMA102722R1000	10	0.28
	Red	346...415		432QR6W	2CMA102396R1000		
	Blue	208...250		432QR9W	2CMA102968R1000		



Dimensions (mm)

Type	A	B	C	D	E	F	G	ØH	ØI	K
216QR...	75	75	60	60	24	57	102	5.5	44	108
316QR...	75	75	60	60	24	58	109	5.5	49	114
416QR...	75	75	60	60	24	58	117	5.5	56	126
232QR...	75	75	60	60	30	67	128	5.5	56	132
332QR...	75	75	60	60	30	67	128	5.5	56	132
432QR...	75	75	60	60	30	67	133	5.5	60	140

Socket outlet

for panel mounting with unified angled flange, IP67

FAST & SAFE



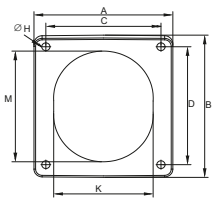
216QRA6W

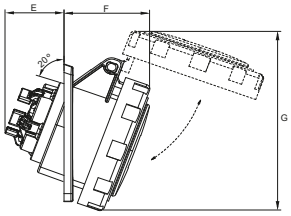
16 A. Watertight
Housing in plastic (PA). Cable area 1.5...4 mm²

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pkg qty	Weight pkg (1pce) kg
2P+E							
3	Yellow	100...130	50 and 60	216QRA4W	2CMA102592R1000	10	0.17
	Blue	200...250		216QRA6W	2CMA102299R1000		
	Red	380...415		216QRA9W	2CMA102871R1000		
3P+E							
4	Yellow	100...130	50 and 60	316QRA4W	2CMA102611R1000	10	0.19
	Red	380...415		316QRA6W	2CMA102318R1000		
	Blue	200...250		316QRA9W	2CMA102890R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	416QRA4W	2CMA102632R1000	10	0.23
	Red	346...415		416QRA6W	2CMA102339R1000		
	Blue	208...250		416QRA9W	2CMA102911R1000		

32 A. Watertight
Housing in plastic (PA). Cable area 2.5...10 mm²

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pkg qty	Weight pkg (1pce) kg
2P+E							
3	Yellow	100...130	50 and 60	232QRA4W	2CMA102651R1000	10	0.24
	Blue	200...250		232QRA6W	2CMA102358R1000		
	Red	380...415		232QRA9W	2CMA102930R1000		
3P+E							
4	Yellow	100...130	50 and 60	332QRA4W	2CMA102703R1000	10	0.26
	Red	380...415		332QRA6W	2CMA102377R1000		
	Blue	200...250		332QRA9W	2CMA102949R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	432QRA4W	2CMA102723R1000	10	0.29
	Red	346...415		432QRA6W	2CMA102397R1000		
	Blue	208...250		432QRA9W	2CMA102969R1000		





Dimensions (mm)

Type	A	B	C	D	E	F	G	ØH	K	M
216QRA...W	83	90	70	76	37	50	106	5	52	65
316QRA...W	83	90	70	76	37	52	109	5	56	68
416QRA...W	83	90	70	76	37	55	119	5	62	72
232QRA...W	83	90	70	76	43	62	125	5	66	76
332QRA...W	83	90	70	76	43	62	125	5	66	76
432QRA...W	83	90	70	76	49	59	133	5	72	82

Sockets outlet

for panel mounting with minimized straight flange, IP67

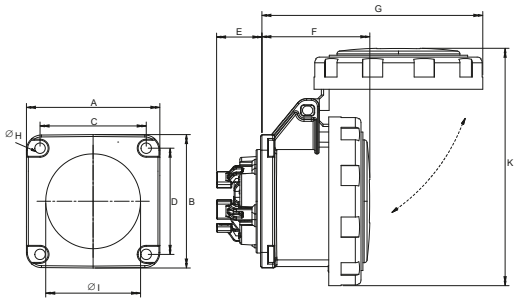
FAST & SAFE



416QRM6W

16 A. Watertight
Housing in plastic (PA). Cable area 1.5...4 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
3P+N+E							
5	Yellow	100...130	50 and 60	416QRM4W	2CMA102630R1000	10	0.17
	Red	346...415		416QRM6W	2CMA102337R1000		
	Blue	208...250		416QRM9W	2CMA102909R1000		



Dimensions (mm)

Type	A	B	C	D	E	F	G	ØH	ØI	K
416QRM...W	70	70	56	56	19	57	117	5.5	56	125

Industrial plugs and sockets
Critical & Safe

Switched interlocked socket outlet



Heavy duty, Type MVS...WH
16 A...32A, IP67



Heavy duty, Type MVS...WH
63A...125 A, IP67



Vertical with RCD protection,
Type MPR..., 16A...32 A, IP44



Vertical, Type MVS...
16A...32 A, IP44



Vertical, Type MVS...W
16 A...32A, IP67



Metal enclosed, Type MM...
16 A...32 A, IP44



Metal enclosed, Type MM...
63 A, IP44



Metal enclosed, Type MM
125 A, IP44



Horizontal, Type MHS...
16 A...32 A, IP44



Horizontal, Type MHS
63 A, IP44



Horizontal, Type MHS...W
16A...32 A, IP67



Horizontal, Type MHS..W
63 A, IP67

Surface socket outlet with MCB or RCD



Vertical with MCB protection,
Type RPM..., 16 A...32 A, IP44



Vertical with RCD protection,
Type RPR..., 16 A...32 A, IP44

Industrial plugs and sockets
Critical & Safe

Our new industrial plugs and sockets complements ABB's strong low-voltage offer. These plugs and sockets are part of Critical & Safe. Critical & Safe is a product range suitable for general use in most applications.

"Critical & Safe is the range for applications with high demands on safety, durability and performance. The product range is perfect for applications with frequent connection/disconnection, and to use in public areas. Switch interlock system provides high product and personal safety, thanks to the mechanism it is not possible to turn on the product if a correct plug is not engaged, which in turn means that the risk of personal injuries decreases if by accident coming in contact with live parts. The plug cannot be disengaged if the mechanism is turned on. The only way to engage and disengage the plug from the socket outlet is if the mechanism is switched off.

The housing is made of PBT or aluminum. PBT is a tough plastic material that withstands heavy-duty usage and most chemicals found in industrial environments. The aluminum housing is a mix of aluminium and silicon called silumin, which gives an excellent protection against corrosion while being robust and tough against impact and sunlight."



Switched interlocked socket outlets

Heavy duty

CRITICAL & SAFE

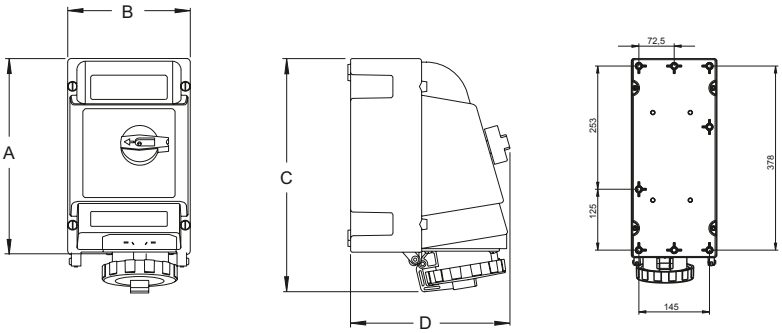


416MVS6WH

16 A. IP67/IP69. Watertight
Housing in plastic (PBT). Cable entry with knock-outs Ø 25+32 mm on top and drill marks on bottom.
Cable area 1.5...4 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	216MVS1WH	2CMA163255R1000	1	1.75
		Yellow	100...130	50 and 60	216MVS4WH	2CMA163256R1000		
		Blue	200...250		216MVS6WH	2CMA163257R1000		
		Red	380...415		216MVS9WH	2CMA163258R1000		
		Grey	transf		216MVS12WH	2CMA163259R1000		
3P+E								
4		Grey		AC	316MVS1WH	2CMA163261R1000	1	1.79
		Yellow	100...130	50 and 60	316MVS4WH	2CMA163262R1000		
		Black	600...690		316MVS5WH	2CMA163263R1000		
		Red	380...415		316MVS6WH	2CMA163264R1000		
		Black	480...500		316MVS7WH	2CMA163265R1000		
		Blue	200...250		316MVS9WH	2CMA163266R1000		
		Green	> 50 V~	100...300	316MVS10WH	2CMA163267R1000		
		Red	440...460	60	316MVS11WH	2CMA163268R1000		
3P+N+E								
5		Grey		AC	416MVS1WH	2CMA163270R1000	1	1.83
		Green	> 50 V~	>300...500	416MVS2WH	2CMA163271R1000		
		Red	346...415	50 and 60	416MVS6WH	2CMA163272R1000		
		Black	480...500		416MVS7WH	2CMA101713R1000		
		Blue	208...250		416MVS9WH	2CMA163273R1000		

- The switch handle is padlockable (5-8 mm shackle)
- The switch insert can be equipped with an auxiliary contact, (see page 98)



Dimensions (mm)

Type	A	B	C	D
216MVS...WH	255	160	306	205
316MVS...WH	255	160	306	205
416MVS...WH	255	160	306	205

Switched interlocked socket outlets

Heavy duty

CRITICAL & SAFE

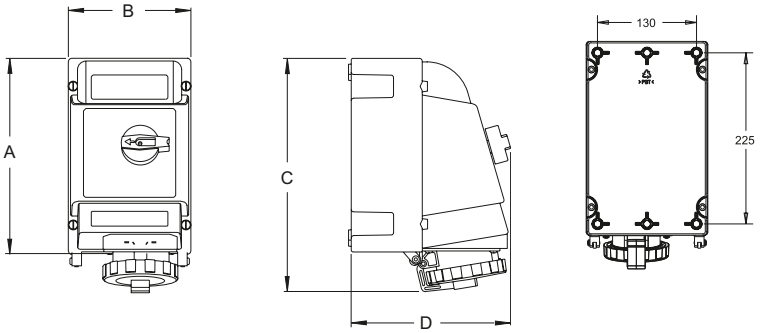


432MVS6WH

32 A. IP67/IP69. Watertight
Housing in plastic (PBT). Cable entry with knock-outs Ø 25+32 mm on top and drill marks on bottom.
Cable area 2.5...10 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	232MVS1WH	2CMA163275R1000	1	1.87
		Grey	> 50...250	DC	232MVS3WH	2CMA105985R1000		
		Yellow	100...130	50 and 60	232MVS4WH	2CMA105108R1000		
		Blue	200...250		232MVS6WH	2CMA163276R1000		
		Red	380...415		232MVS9WH	2CMA105109R1000		
		Grey	transf.		232MVS12WH	2CMA105110R1000		
3P+E								
4		Grey		AC	332MVS1WH	2CMA163277R1000	1	1.91
		Red	380/440	50/60	332MVS3WH	2CMA100662R1000		
		Yellow	100...130	50 and 60	332MVS4WH	2CMA105111R1000		
		Black	600...690		332MVS5WH	2CMA163278R1000		
		Red	380...415		332MVS6WH	2CMA163279R1000		
		Black	480...500		332MVS7WH	2CMA163280R1000		
		Blue	200...250		332MVS9WH	2CMA163281R1000		
		Green	> 50 V~	100...300	332MVS10WH	2CMA105112R1000		
		Red	440...460	60	332MVS11WH	2CMA105113R1000		
3P+N+E								
5		Grey		AC	432MVS1WH	2CMA163284R1000	1	1.95
		Green	> 50 V~	>300...500	432MVS2WH	2CMA105114R1000		
		Yellow	100...130	50 and 60	432MVS4WH	2CMA105115R1000		
		Red	346...415		432MVS6WH	2CMA163285R1000		
		Black	480...500		432MVS7WH	2CMA163286R1000		
		Blue	208...250		432MVS9WH	2CMA101701R1000		
		Red	440...460	60	432MVS11WH	2CMA105117R1000		

- The switch handle is padlockable (5-8 mm shackle)
- The switch insert can be equipped with an auxiliary contact, (see page 98)



Dimensions (mm)

Type	A	B	C	D
232MVS...WH	255	160	306	205
332MVS...WH	255	160	306	205
432MVS...WH	255	160	306	205

Switched interlocked socket outlets

Heavy duty

CRITICAL & SAFE

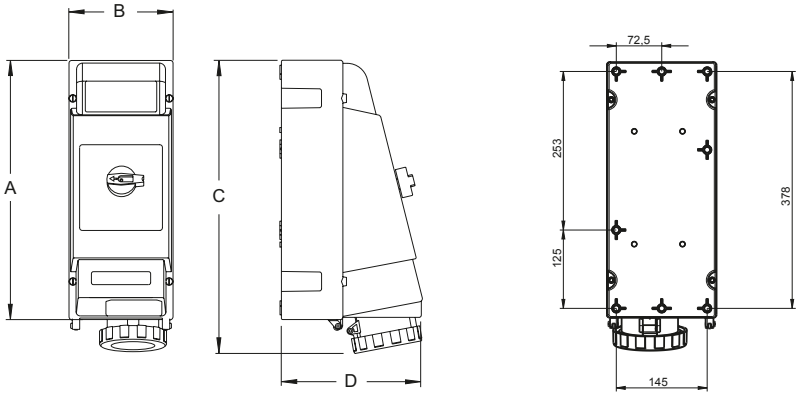


463MVS6WH

63 A. IP67/IP69. Watertight
Housing in plastic (PBT). Cable entry with knock-outs Ø 40+50 mm on top and drill marks on bottom.
Cable area 6...25 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	263MVS1WH	2CMA162831R1000	1	3.50
		Yellow	100...130	50 and 60	263MVS4WH	2CMA162827R1000		
		Blue	200...250		263MVS6WH	2CMA162828R1000		
		Red	380...415		263MVS9WH	2CMA162829R1000		
3P+E								
4		Grey		AC	363MVS1WH	2CMA162841R1000	1	3.50
		Yellow	100...130	50 and 60	363MVS4WH	2CMA162834R1000		
		Black	600...690		363MVS5WH	2CMA162835R1000		
		Red	380...415		363MVS6WH	2CMA162836R1000		
		Black	480...500		363MVS7WH	2CMA162837R1000		
		Blue	200...250		363MVS9WH	2CMA162838R1000		
		Red	440...460	60	363MVS11WH	2CMA162840R1000		
3P+N+E								
5		Grey		AC	463MVS1WH	2CMA162849R1000	1	3.60
		Yellow	100...130	50 and 60	463MVS4WH	2CMA162844R1000		
		Red	346...415		463MVS6WH	2CMA162845R1000		
		Black	600...690		463MVS5WH	2CMA162805R1000		
		Black	480...500		463MVS7WH	2CMA162846R1000		
		Blue	208...250		463MVS9WH	2CMA162847R1000		
		Red	440...460	60	463MVS11WH	2CMA162848R1000		

- The switch handle is padlockable (5-8 mm shackle)
- The switch insert can be equipped with an auxiliary contact, (see page 98)



Dimensions (mm)

Type	A	B	C	D
263MVS...WH	408	175	463	241
363MVS...WH	408	175	463	241
463MVS...WH	408	175	463	241

Switched interlocked socket outlets

Heavy duty

CRITICAL & SAFE

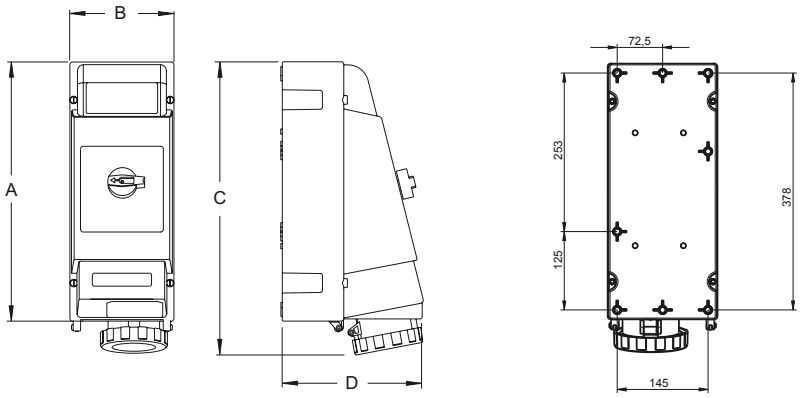


4125MVS6WH

125 A. IP67/IP69. Watertight
Housing in plastic (PBT). Cable entry with knock-outs Ø 40+50 mm on top and drill marks on bottom.
Long phase sleeves and pilot sleeve. Cable area 16...70 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	2125MVS1WH	2CMA162740R1000	1	4.20
		Yellow	100...130	50 and 60	2125MVS4WH	2CMA162738R1000		
		Blue	200...250		2125MVS6WH	2CMA162739R1000		
		Red	380...415		2125MVS9WH	2CMA101837R1000		
3P+E								
4		Grey		AC	3125MVS1WH	2CMA162746R1000	1	4.40
		Yellow	100...130	50 and 60	3125MVS4WH	2CMA162741R1000		
		Red	380...415		3125MVS6WH	2CMA162742R1000		
		Black	600...690		3125MVS5WH	2CMA162747R1000		
		Black	480...500		3125MVS7WH	2CMA162743R1000		
		Blue	200...250		3125MVS9WH	2CMA162744R1000		
		Red	440...460	60	3125MVS11WH	2CMA162745R1000		
3P+N+E								
5		Grey		AC	4125MVS1WH	2CMA162796R1000	1	4.50
		Yellow	100...130	50 and 60	4125MVS4WH	2CMA162791R1000		
		Red	346...415		4125MVS6WH	2CMA162792R1000		
		Black	600...690		4125MVS5WH	2CMA162797R1000		
		Black	480...500		4125MVS7WH	2CMA162793R1000		
		Blue	208...250		4125MVS9WH	2CMA162794R1000		
		Red	440...460	60	4125MVS11WH	2CMA162795R1000		

- The switch handle is padlockable (5-8 mm shackle)
- The switch insert can be equipped with an auxiliary contact, (see page 98)



Dimensions (mm)

Type	A	B	C	D
2125MVS...WH	408	175	463	241
3125MVS...WH	408	175	463	241
4125MVS...WH	408	175	463	241

Switched interlocked socket outlets

Metal enclosed

CRITICAL & SAFE

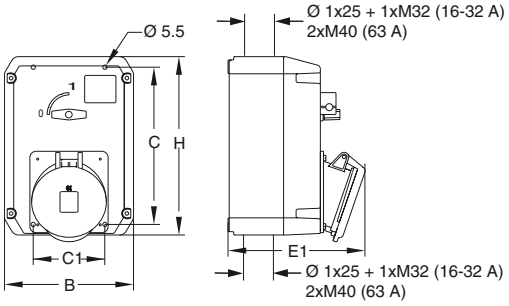


416MM6

16 A. IP44. Splashproof
Housing in aluminum. Cable entry 2 x M25 + 2 x M32. Cable area 1.5...4 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
3P+E								
4		Grey		AC	316MM1	2CMA167980R1000	1	1.30
		Yellow	100...130	50 and 60	316MM4	2CMA167973R1000		
		Black	600...690		316MM5	2CMA167974R1000		
		Red	380...415		316MM6	2CMA167975R1000		
		Black	480...500		316MM7	2CMA167976R1000		
		Blue	200...250		316MM9	2CMA167977R1000		
		Green	> 50 V~	100...300	316MM10	2CMA167978R1000		
		Red	440...460	60	316MM11	2CMA167979R1000		
3P+N+E								
5		Grey		AC	416MM1	2CMA167988R1000	1	1.32
		Green	> 50 V~	>300...500	416MM2	2CMA167981R1000		
		Black	600...690	50 and 60	416MM5	2CMA126695R1000		
		Red	346...415		416MM6	2CMA167984R1000		
		Blue	208...250		416MM9	2CMA167986R1000		
		Red	440...460	60	416MM11	2CMA167987R1000		

- The switch handle is padlockable (5-8 mm shackle)
- The switch insert can be equipped with an auxiliary contact, (see page 98)



Dimensions (mm)

Type	B	C	C1	E1	H
316MM...	135	165	91.5	125	198
416MM...	135	165	91.5	125	198

Switched interlocked socket outlets
Metal enclosed

CRITICAL & SAFE

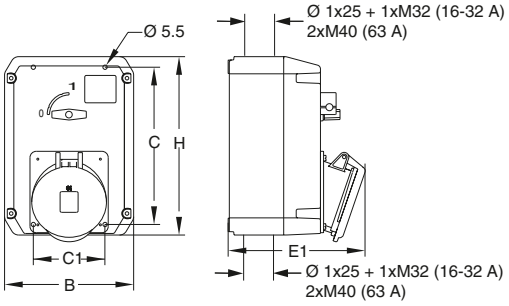


416MM6

32 A. IP44. Splashproof
Housing in aluminum. Cable entry 2 x M25 + 2 x M32. Cable area 2.5...10 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
3P+E								
4		Grey		AC	332MM1	2CMA167998R1000	1	1.42
		Red	380/440	50/60	332MM3	2CMA167990R1000		
		Yellow	100...130	50 and 60	332MM4	2CMA167991R1000		
		Black	600...690		332MM5	2CMA167992R1000		
		Red	380...415		332MM6	2CMA167993R1000		
		Black	480...500		332MM7	2CMA167994R1000		
		Blue	200...250		332MM9	2CMA167995R1000		
		Green	> 50 V~	100...300	332MM10	2CMA167996R1000		
		Red	440...460	60	332MM11	2CMA167997R1000		
3P+N+E								
5		Grey		AC	432MM1	2CMA168006R1000	1	1.48
		Black	600...690	50 and 60	432MM5	2CMA126696R1000		
		Red	346...415		432MM6	2CMA168002R1000		
		Black	480...500		432MM7	2CMA168003R1000		
		Blue	208...250		432MM9	2CMA168004R1000		
		Red	440...460	60	432MM11	2CMA100027R1000		

- The switch handle is padlockable (5-8 mm shackle)
- The switch insert can be equipped with an auxiliary contact, (see page 98)



Dimensions (mm)

Type	B	C	C1	E1	H
332MM...	135	165	91.5	135	198
432MM...	135	165	91.5	135	198

Switched interlocked socket outlets

Metal enclosed

CRITICAL & SAFE

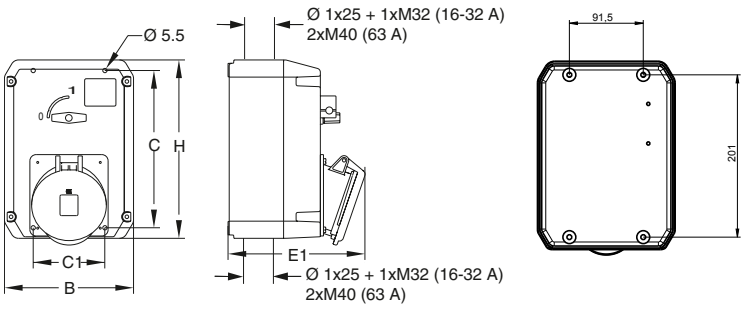


263MM6

63 A. IP44. Splashproof
Housing in aluminum. Cable entry 4 x M40.Cable area 6...25 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	263MM1	2CMA168033R1000	1	2.20
		Yellow	100...130	50 and 60	263MM4	2CMA168030R1000		
		Blue	200...250		263MM6	2CMA168031R1000		
		Red	380...415		263MM9	2CMA168032R1000		
3P+E								
4		Grey		AC	363MM1	2CMA168040R1000	1	2.22
		Yellow	100...130	50 and 60	363MM4	2CMA168034R1000		
		Black	600...690		363MM5	2CMA168035R1000		
		Red	380...415		363MM6	2CMA168036R1000		
		Black	480...500		363MM7	2CMA168037R1000		
		Blue	200...250		363MM9	2CMA168038R1000		
		Red	440...460	60	363MM11	2CMA168039R1000		
3P+N+E								
5		Grey		AC	463MM1	2CMA168046R1000	1	2.35
		Black	600...690	50 and 60	463MM5	2CMA126697R1000		
		Red	346...415		463MM6	2CMA168042R1000		
		Black	480...500		463MM7	2CMA168043R1000		
		Blue	208...250		463MM9	2CMA168044R1000		

- The switch handle is padlockable (5-8 mm shackle)
- The switch insert can be equipped with an auxiliary contact, (see page 98)



Dimensions (mm)

Type	B	C	C1	E1	H
263MM...	165	201	91.5	183	228
363MM...	165	201	91.5	183	228
463MM...	165	201	91.5	183	228

Switched interlocked socket outlets
Metal enclosed

CRITICAL & SAFE

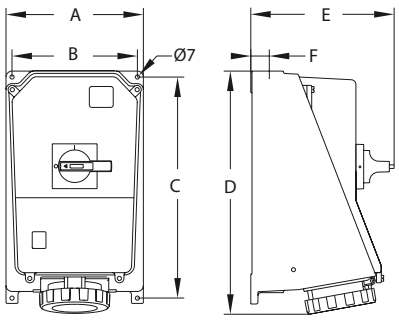


4125MM6

125 A. IP44. Splashproof
Housing in aluminum. Long phase sleeves and pilot sleeve. Cable entry 1 x M50. Cable area 16...70 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
	Blue	200...250	50 and 60	2125MM6	2CMA168047R1000	1	7.70
3P+E							
4	Grey		AC	3125MM1	2CMA168052R1000	1	7.90
	Black	600...690	50 and 60	3125MM5	2CMA168061R1000		
	Red	380...415		3125MM6	2CMA168048R1000		
	Black	480...500		3125MM7	2CMA168049R1000		
	Blue	200...250		3125MM9	2CMA168050R1000		
	Red	440...460	60	3125MM11	2CMA168051R1000		
3P+N+E							
5	Grey		AC	4125MM1	2CMA168056R1000	1	8.10
	Black	600...690	50 and 60	4125MM5	2CMA126698R1000		
	Red	346...415		4125MM6	2CMA168053R1000		
	Black	480...500		4125MM7	2CMA168054R1000		
	Red	440...460	60	4125MM11	2CMA168055R1000		

- The switch handle is padlockable (5-8 mm shackle)
- The switch insert can be equipped with an auxiliary contact, (see page 98)



Dimensions (mm)

Type	A	B	C	D	E	F
2125MM...	230	210	370	405	**230**	**31**
3125MM...	230	210	370	405	**230**	**31**
4125MM...	230	210	370	405	**230**	**31**

Switched interlocked socket outlets
Horizontal

CRITICAL & SAFE



432MHS6

16 A. IP44. Splashproof
Housing in plastic (PBT). Cable entry with knock-outs Ø 25 mm up/M25 down. Cable area 1.5...4 mm²

Terminals/ Poles	Color code		Voltage V	Frequency Hz	Type	Order Code	Pkg qty	Weight pkg (1pce) kg
2P+E								
3		Grey		AC	216MHS1	2CMA167626R1000	1	0.55
		Yellow	100...130	50 and 60	216MHS4	2CMA167622R1000		
		Blue	200...250		216MHS6	2CMA167623R1000		
		Red	380...415		216MHS9	2CMA167624R1000		
		Grey	transf.		216MHS12	2CMA167625R1000		
3P+E								
4		Grey		AC	316MHS1	2CMA167636R1000	1	0.58
		Yellow	100...130	50 and 60	316MHS4	2CMA167629R1000		
		Black	600...690		316MHS5	2CMA167630R1000		
		Red	380...415		316MHS6	2CMA167631R1000		
		Black	480...500		316MHS7	2CMA167632R1000		
		Blue	200...250		316MHS9	2CMA167633R1000		
		Green	> 50 V~	100...300	316MHS10	2CMA167634R1000		
		Red	440...460	60	316MHS11	2CMA167635R1000		
3P+N+E								
5		Grey		AC	416MHS1	2CMA167644R1000	1	0.61
		Green	> 50 V~	100...300	416MHS2	2CMA167637R1000		
		Black	600...690	50 and 60	416MHS5	2CMA126684R1000		
		Red	346...415		416MHS6	2CMA167640R1000		
		Blue	200...250		416MHS9	2CMA167642R1000		

32 A. IP44. Splashproof
Housing in plastic (PBT). Cable entry with knock-outs Ø 25 mm up/M25 down. Cable area 2.5...10 mm²

Terminals/ Poles	Color code		Voltage V	Frequency Hz	Type	Order Code	Pkg qty	Weight pkg (1pce) kg
2P+E								
3		Grey		AC	232MHS1	2CMA167672R1000	1	0.60
		Yellow	100...130	50 and 60	232MHS4	2CMA167668R1000		
		Blue	200...250		232MHS6	2CMA167669R1000		
3P+E								
4		Grey		AC	332MHS1	2CMA167682R1000	1	0.63
		Black	600...690	50 and 60	332MHS5	2CMA167676R1000		
		Red	380...415		332MHS6	2CMA167677R1000		
		Black	480...500		332MHS7	2CMA167678R1000		
		Blue	200...250		332MHS9	2CMA167679R1000		
3P+N+E								
5		Grey		AC	432MHS1	2CMA167690R1000	1	0.66
		Black	600...690	50 and 60	432MHS5	2CMA126685R1000		
		Red	346...415		432MHS6 *)	2CMA167686R1000		

- The switch insert can be equipped with an auxiliary contact, (see page 98)
- Dimension drawing, (see page 90)

Switched interlocked socket outlets
Horizontal

CRITICAL & SAFE

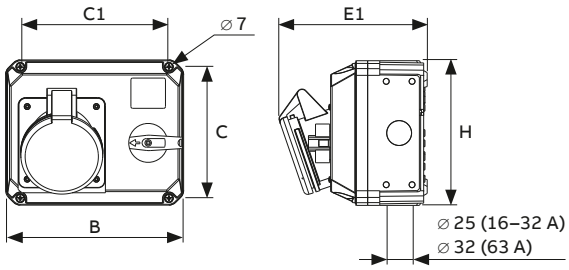


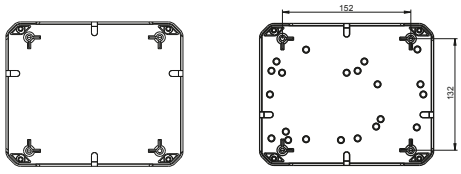
463MHS6

63 A. IP44. Splashproof
Housing in plastic (PBT). Cable entry with knock-outs Ø 32 mm. Cable area 6...25 mm²

Terminals/ Poles	Color code		Voltage V	Frequency Hz	Type	Order Code	Pkg qty	Weight pkg (1pce) kg
2P+E								
3		Grey		AC	263MHS1	2CMA167717R1000	1	2.00
		Yellow	100...130	50 and 60	263MHS4	2CMA167714R1000		
		Blue	200...250		263MHS6	2CMA167715R1000		
3P+E								
4		Grey		AC	363MHS1	2CMA167725R1000	1	2.00
		Black	600...690	50 and 60	363MHS5	2CMA167719R1000		
		Red	380...415		363MHS6	2CMA167721R1000		
		Black	480...500		363MHS7	2CMA167722R1000		
		Blue	200...250		363MHS9	2CMA167723R1000		
3P+N+E								
5		Grey		AC	463MHS1	2CMA167731R1000	1	2.10
		Black	600...690	50 and 60	463MHS5	2CMA126686R1000		
		Red	346...415		463MHS6	2CMA167727R1000		

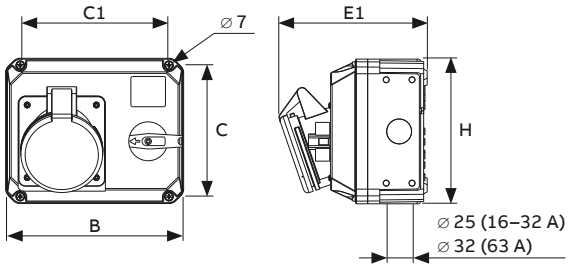
- The switch handle is padlockable (5-8 mm shackle)
- The switch insert can be equipped with an auxiliary contact, (see page 98)





Dimensions (mm)

Type	B	C	C1	E1	H
263MHS...	206	132	152	168	168
363MHS...	206	132	152	168	168
463MHS...	206	132	152	168	168



Dimensions (mm)

Type	B	C	C1	E1	H
216MHS...416MHS...	168	91	125	116	129
232MHS...432MHS...	168	91	125	126	129

Switched interlocked socket outlets
Horizontal

CRITICAL & SAFE

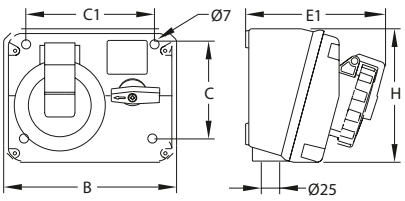


216MHS6W

16 A. IP67. Watertight
Housing in plastic (PBT). Cable entry with knock-outs Ø 25 mm up/M25 down. Cable area 1.5...4 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	216MHS1W	2CMA167804R1000	1	0.55
		Yellow	100...130	50 and 60	216MHS4W	2CMA167800R1000		
		Blue	200...250		216MHS6W	2CMA167801R1000		
		Black	480...500		216MHS7W	2CMA101715R1000		
		Red	380...415		216MHS9W	2CMA167802R1000		
		Grey	transf.		216MHS12W	2CMA167803R1000		
3P+E								
4		Grey		AC	316MHS1W	2CMA167814R1000	1	0.58
		Green	> 50 V~	>300...500	316MHS2W	2CMA167805R1000		
		Red	380/440	50/60	316MHS3W	2CMA167806R1000		
		Yellow	100...130	50 and 60	316MHS4W	2CMA167807R1000		
		Black	600...690		316MHS5W	2CMA167808R1000		
		Red	380...415		316MHS6W	2CMA167809R1000		
		Black	480...500		316MHS7W	2CMA167810R1000		
		Blue	200...250		316MHS9W	2CMA167811R1000		
		Green	> 50 V~	100...300	316MHS10W	2CMA167812R1000		
		Red	440...460	60	316MHS11W	2CMA167813R1000		
3P+N+E								
5		Grey		AC	416MHS1W	2CMA167822R1000	1	0.61
		Green	> 50 V~	>300...500	416MHS2W	2CMA167815R1000		
		Red	380/440	50/60	416MHS3W	2CMA167816R1000		
		Yellow	100...130	50 and 60	416MHS4W	2CMA167817R1000		
		Red	346...415		416MHS6W	2CMA167818R1000		
		Black	480...500		416MHS7W	2CMA167819R1000		
		Blue	208...250		416MHS9W	2CMA167820R1000		
		Red	440...460	60	416MHS11W	2CMA167821R1000		

- The switch insert can be equipped with an auxiliary contact, (see page 98)



Dimensions (mm)

Type	B	C	C1	E1	H
216MHS...W	168	91	125	116	129
316MHS...W	168	91	125	116	129
416MHS...W	168	91	125	116	129

Switched interlocked socket outlets
Horizontal

CRITICAL & SAFE

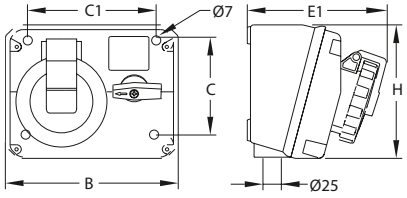


432MHS6W

32 A. IP67. Watertight
Housing in plastic (PBT). Cable entry with knock-outs Ø 25 mm up/M25 down. Cable area 2.5...10 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	232MHS1W	2CMA167851R1000	1	0.60
		Yellow	100...130	50 and 60	232MHS4W	2CMA167847R1000		
		Blue	200...250		232MHS6W	2CMA167848R1000		
		Red	380...415		232MHS9W	2CMA167849R1000		
		Grey	transf.		232MHS12W	2CMA167850R1000		
3P+E								
4		Grey		AC	332MHS1W	2CMA167861R1000	1	0.63
		Green	> 50 V~	>300...500	332MHS2W	2CMA167852R1000		
		Red	380/440	50/60	332MHS3W	2CMA167853R1000		
		Yellow	100...130	50 and 60	332MHS4W	2CMA167854R1000		
		Black	600...690		332MHS5W	2CMA167855R1000		
		Red	380...415		332MHS6W	2CMA167856R1000		
		Black	480...500		332MHS7W	2CMA167857R1000		
		Blue	200...250		332MHS9W	2CMA167858R1000		
		Green	> 50 V~	100...300	332MHS10W	2CMA167859R1000		
		Red	440...460	60	332MHS11W	2CMA167860R1000		
3P+N+E								
5		Grey		AC	432MHS1W	2CMA167869R1000	1	0.66
		Green	> 50 V~	>300...500	432MHS2W	2CMA167862R1000		
		Red	380/440	50/60	432MHS3W	2CMA167863R1000		
		Yellow	100...130	50 and 60	432MHS4W	2CMA167864R1000		
		Red	346...415		432MHS6W	2CMA167865R1000		
		Black	480...500		432MHS7W	2CMA167866R1000		
		Blue	208...250		432MHS9W	2CMA167867R1000		
		Red	440...460	60	432MHS11W	2CMA167868R1000		

- The switch insert can be equipped with an auxiliary contact, (see page 98)



Dimensions (mm)

Type	B	C	C1	E1	H
232MHS...W	168	91	125	136	129
332MHS...W	168	91	125	136	129
432MHS...W	168	91	125	116	129

Switched interlocked socket outlets
Horizontal

CRITICAL & SAFE

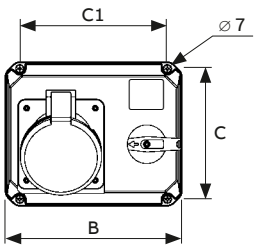


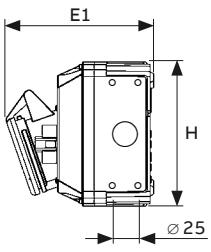
263MHS6W

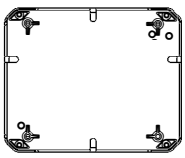
63 A. IP67. Watertight
Housing in plastic (PBT). Cable entry with knock-outs knock-outs Ø 33 mm up/ Ø 33 down. Cable area 6...25 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	263MHS1W	2CMA167896R1000	1	2.00
		Yellow	100...130	50 and 60	263MHS4W	2CMA167893R1000		
		Blue	200...250		263MHS6W	2CMA167894R1000		
		Red	380...415		263MHS9W	2CMA167895R1000		
3P+E								
4		Grey		AC	363MHS1W	2CMA167903R1000	1	2.00
		Yellow	100...130	50 and 60	363MHS4W	2CMA167897R1000		
		Black	600...690		363MHS5W	2CMA167898R1000		
		Red	380...415		363MHS6W	2CMA167899R1000		
		Black	480...500		363MHS7W	2CMA167900R1000		
		Blue	200...250		363MHW9W	2CMA167901R1000		
		Red	440...460	60	363MHS11W	2CMA167901R1000		
3P+N+E								
5		Grey		AC	463MHS1W	2CMA167909R1000	1	2.10
		Yellow	100...130	50 and 60	463MHS4W	2CMA167904R1000		
		Red	346...415		463MHS6W	2CMA167905R1000		
		Black	480...500		463MHS7W	2CMA167906R1000		
		Blue	208...250		463MHS9W	2CMA167907R1000		
		Red	440...460	60	463MHS11W	2CMA167908R1000		

- The switch handle is padlockable (5-8 mm shackle)
- The switch insert can be equipped with an auxiliary contact, (see page 98)







Dimensions (mm)

Type	B	C	C1	E1	H
263MHS...W	206	132	152	182	168
363MHS...W	206	132	152	182	168
463MHS...W	206	132	152	182	168

Switched interlocked socket outlets
With protection

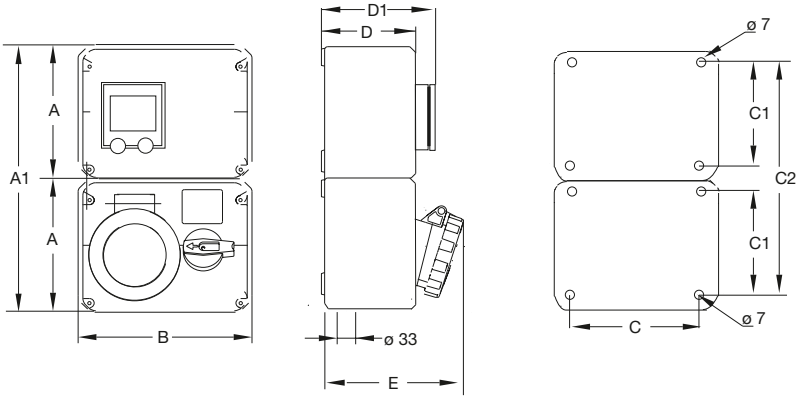
CRITICAL & SAFE



363MPR6W

63 A. IP67. Watertight
Housing in plastic (PBT). Cable entry with knock-outs Ø 33 mm up and down. Cable area 6...25 mm².
Delivered with RCD.

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Yellow	100...130	50 and 60	263MPR4W	2CMA101940R1000	1	1.90
	Blue	200...250		263MPR6W	2CMA101941R1000		
	Red	380...415		263MPR9W	2CMA101942R1000		
3P+E							
5	Yellow	100...130	50 and 60	363MPR4W	2CMA101937R1000	1	1.90
	Red	346...415		363MPR6W	2CMA101938R1000		
	Blue	200...250		363MPR9W	2CMA101939R1000		
3P+N+E							
5	Yellow	100...130	50 and 60	463MPR4W	2CMA101935R1000	1	1.90
	Red	346...415		463MPR6W	2CMA101934R1000		
	Blue	208...250		463MPR9W	2CMA101936R1000		



Dimensions (mm)

Type	A	A1	B	C	C1	C2	D	D1	E
263MPR...W	168	337	206	152	132	300	108	138	175
363MPR...W	168	337	206	152	132	300	108	138	175
463MPR...W	168	337	206	152	132	300	108	138	175

Switched interlocked socket outlets
Vertical

CRITICAL & SAFE



432MVS6

16 A. IP44. Splashproof
Housing in plastic (PBT). Cable entry with knock-outs Ø 25 mm. Cable area 1.5...4 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Grey		AC	216MVS1	2CMA167649R1000	1	0.63
	Yellow	100...130	50 and 60	216MVS4	2CMA167645R1000		
	Blue	200...250		216MVS6	2CMA167646R1000		
	Red	380...415		216MVS9	2CMA167647R1000		
	Grey	transf.		216MVS12	2CMA167648R1000		
3P+E							
4	Grey		AC	316MVS1	2CMA167659R1000	1	0.67
	Yellow	100...130	50 and 60	316MVS4	2CMA167652R1000		
	Black	600...690		316MVS5	2CMA167653R1000		
	Red	380...415		316MVS6	2CMA167654R1000		
	Black	480...500		316MVS7	2CMA167655R1000		
	Blue	200...250		316MVS9	2CMA167656R1000		
	Green	> 50 V~	100...300	316MVS10	2CMA167657R1000		
	Red	440...460	60	316MVS11	2CMA167658R1000		
3P+N+E							
5	Grey		AC	416MVS1	2CMA167667R1000	1	0.70
	Green	> 50 V~	300...500	416MVS2	2CMA167660R1000		
	Black	600...690	50 and 60	416MVS5	2CMA126690R1000		
	Red	346...415		416MVS6	2CMA167663R1000		
	Blue	200...250		416MVS9	2CMA167665R1000		

32 A. IP44. Splashproof
Housing in plastic (PBT). Cable entry with knock-outs Ø 25 mm. Cable area 2.5...10 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Grey		AC	232MVS1	2CMA167695R1000	1	0.69
	Yellow	100...130	50 and 60	232MVS4	2CMA167691R1000		
	Blue	200...250		232MVS6	2CMA167692R1000		
3P+E							
4	Grey		AC	332MVS1	2CMA167705R1000	1	0.72
	Black	600...690	50 and 60	332MVS5	2CMA167699R1000		
	Red	380...415		332MVS6	2CMA167700R1000		
	Black	480...500		332MVS7	2CMA167701R1000		
	Blue	200...250		332MVS9	2CMA167702R1000		
3P+N+E							
5	Grey		AC	432MVS1	2CMA167713R1000	1	0.76
	Black	600...690	50 and 60	432MVS5	2CMA126691R1000		
	Red	346...415		432MVS6	2CMA167709R1000		

- The switch handle is padlockable (5-8 mm shackle)
- The switch insert can be equipped with an auxiliary contact, (see page 98)

Switched interlocked socket outlets
Vertical

CRITICAL & SAFE

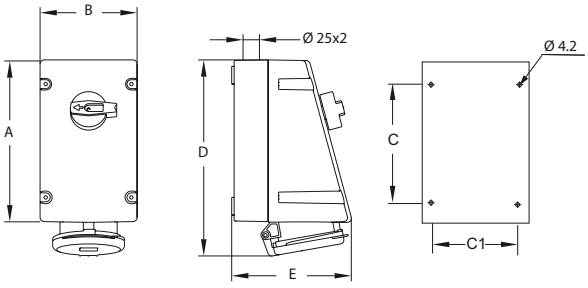


216MVS6W

16 A. IP67. Watertight
Housing in plastic (PBT). Cable entry with knock-outs Ø 25 mm. Cable area 1.5...4 mm²

Terminals/ Poles	Color code		Voltage V	Frequency Hz	Type	Order Code	Pkg qty	Weight pkg (1pce) kg
2P+E								
3		Grey		AC	216MVS1W	2CMA167827R1000	1	0.63
		Yellow	100...130	50 and 60	216MVS4W	2CMA167823R1000		
		Blue	200...250		216MVS6W	2CMA167824R1000		
		Red	380...415		216MVS9W	2CMA167825R1000		
		Grey	transf.		216MVS12W	2CMA167826R1000		
3P+E								
4		Grey		AC	316MVS1W	2CMA167838R1000	1	0.67
		Green	> 50 V~	>300...500	316MVS2W	2CMA167828R1000		
		Red	380/440	50/60	316MVS3W	2CMA167829R1000		
		Yellow	100...130	50 and 60	316MVS4W	2CMA167830R1000		
		Black	600...690		316MVS5W	2CMA167831R1000		
		Red	380...415		316MVS6W	2CMA167832R1000		
		Black	480...500		316MVS7W	2CMA167833R1000		
		Blue	200...250		316MVS9W	2CMA167834R1000		
		Green	> 50 V~	100...300	316MVS10W	2CMA167835R1000		
		Red	440...460	60	316MVS11W	2CMA167836R1000		
3P+N+E								
5		Grey		AC	416MVS1W	2CMA167846R1000	1	0.70
		Green	> 50 V~	>300...500	416MVS2W	2CMA167839R1000		
		Red	380/440	50/60	416MVS3W	2CMA167840R1000		
		Yellow	100...130	50 and 60	416MVS4W	2CMA167841R1000		
		Red	346...415		416MVS6W	2CMA167842R1000		
		Black	480...500		416MVS7W	2CMA167843R1000		
		Blue	208...250		416MVS9W	2CMA167844R1000		
		Red	440...460	60	416MVS11W	2CMA167845R1000		

- The switch handle is padlockable (5-8 mm shackle)
- The switch insert can be equipped with an auxiliary contact, (see page 98)



Dimensions (mm)

Type	A	B	C	C1	D	E
216MVS...416MVS...	199.5	120	170	90	235	149
232MVS...432MVS...	199.5	120	170	90	235	149
216MVS...W	199.5	120	170	90	253	149
316MVS...W	199.5	120	170	90	253	149
416MVS...W	199.5	120	170	90	253	149

Switched interlocked socket outlets
Vertical

CRITICAL & SAFE

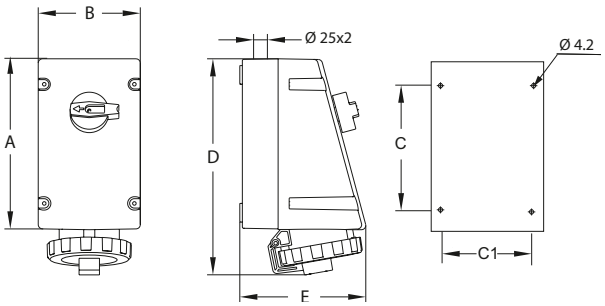


432MVS6W

32 A. IP67. Watertight
Housing in plastic (PBT). Cable entry with knock-outs Ø 25 mm. Cable area 2.5...10 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	232MVS1W	2CMA167874R1000	1	0.69
		Yellow	100...130	50 and 60	232MVS4W	2CMA167870R1000		
		Blue	200...250		232MVS6W	2CMA167871R1000		
		Red	380...415		232MVS9W	2CMA167872R1000		
		Grey	transf.		232MVS12W	2CMA167873R1000		
3P+E								
4		Grey		AC	332MVS1W	2CMA167884R1000	1	0.72
		Green	> 50 V~	>300...500	332MVS2W	2CMA167875R1000		
		Red	380/440	50/60	332MVS3W	2CMA167876R1000		
		Yellow	100...130	50 and 60	332MVS4W	2CMA167877R1000		
		Black	600...690		332MVS5W	2CMA167878R1000		
		Red	380...415		332MVS6W	2CMA167879R1000		
		Black	480...500		332MVS7W	2CMA167880R1000		
		Blue	200...250		332MVS9W	2CMA167881R1000		
		Green	> 50 V~	100...300	332MVS10W	2CMA167882R1000		
		Red	440...460	60	332MVS11W	2CMA167883R1000		
3P+N+E								
5		Grey		AC	432MVS1W	2CMA167892R1000	1	0.76
		Green	> 50 V~	>300...500	432MVS2W	2CMA167885R1000		
		Red	380/440	50/60	432MVS3W	2CMA167886R1000		
		Yellow	100...130	50 and 60	432MVS4W	2CMA167887R1000		
		Red	346...415		432MVS6W	2CMA167888R1000		
		Black	480...500		432MVS7W	2CMA167889R1000		
		Blue	208...250		432MVS9W	2CMA167890R1000		
		Red	440...460	60	432MVS11W	2CMA167891R1000		

- The switch handle is padlockable (5-8 mm shackle)
- The switch insert can be equipped with an auxiliary contact, (see page 98)



Dimensions (mm)

Type	A	B	C	C1	D	E
232MVS...W	199.5	120	170	90	253	149
332MVS...W	199.5	120	170	90	253	149
432MVS...W	199.5	120	170	90	253	149

Switched interlocked socket outlets

Vertical with protection

CRITICAL & SAFE



216MPR6

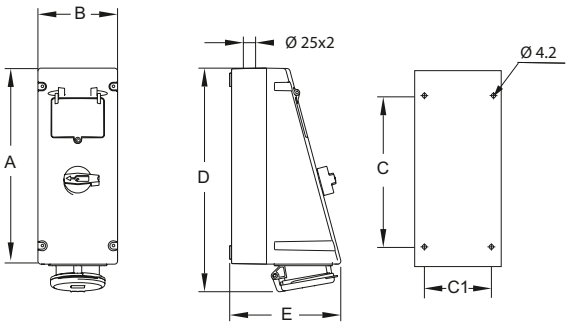
16 A. IP44. Splashproof
Housing in plastic (PBT). Contains RCD 25 A/0.03 A, type A.
Cable entry with knock-outs 2 x Ø 25 mm. Cable area 1.5...4 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Blue	200...250	50 and 60	216MPR6	2CMA167756R1000	1	1.71
3P+E							
4	Red	380...415	50 and 60	316MPR6	2CMA167764R1000	1	1.74
	Blue	200...250		316MPR9	2CMA167766R1000		
3P+N+E							
5	Red	346...415	50 and 60	416MPR6	2CMA167772R1000	1	1.76

32 A. IP44. Splashproof
Housing in plastic (PBT). Contains RCD 40 A/0.03 A, type A.
Cable entry with knock-outs 2 x Ø 25 mm. Cable area 2.5...10 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Blue	200...250	50 and 60	232MPR6	2CMA167778R1000	1	1.77
3P+E							
4	Red	380...415	50 and 60	332MPR6	2CMA167786R1000	1	1.78
	Blue	200...250		332MPR9	2CMA167788R1000		
3P+N+E							
5	Red	346...415	50 and 60	432MPR6	2CMA167795R1000	1	1.80

- The switch handle is padlockable (5-8 mm shackle)
- The switch insert can be equipped with an auxiliary contact, (see page 98)



Dimensions (mm)

Type	A	B	C	C1	D	E
216MPR...	320	130	290	100	366	182
316MPR...	320	130	290	100	366	182
416MPR...	320	130	290	100	366	182

Surface socket outlets
Vertical with protection

CRITICAL & SAFE



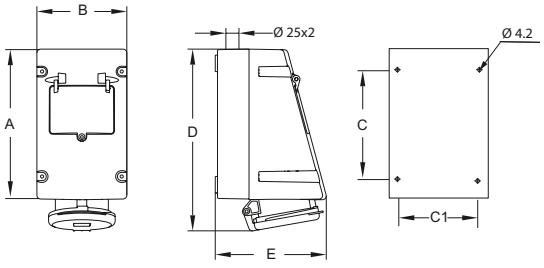
216RPM6

16 A. IP44. Splashproof
Housing in plastic (PBT). Contains MCB type S200 characteristic C.
Cable entry with knock-outs 2 x Ø 25 mm. Cable area 1.5...4 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Blue	200...250	50 and 60	216RPM6	2CMA168133R1000	1	1.13
3P+E							
4	Red	380...415	50 and 60	316RPM6	2CMA168141R1000	1	1.16
	Blue	200...250		316RPM9	2CMA168143R1000		
3P+N+E							
5	Red	346...415	50 and 60	416RPM6	2CMA168150R1000	1	1.18

32 A. IP44. Splashproof
Housing in plastic (PBT). Contains MCB type S200 characteristic C.
Cable entry with knock-outs 2 x Ø 25 mm. Cable area 2.5...10 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Blue	200...250	50 and 60	232RPM6	2CMA168156R1000	1	1.19
3P+E							
4	Red	380...415	50 and 60	332RPM6	2CMA168164R1000	1	1.20
	Blue	200...250		332RPM9	2CMA168166R1000		
3P+N+E							
5	Red	346...415	50 and 60	432RPM6	2CMA168173R1000	1	1.22



Dimensions (mm)

Type	A	B	C	C1	D	E
216RPM...416RPM...	199.5	120	170	90	243	149
232RPM...432RPM...	199.5	120	170	90	243	149

Surface socket outlets
Vertical with protection

CRITICAL & SAFE



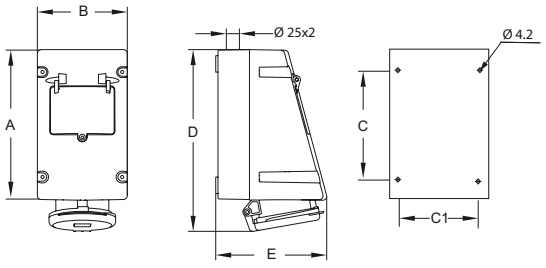
216RPR6

16 A. IP44. Splashproof
Housing in plastic (PBT). Contains RCD 25 A / 0.03 A, type A
Cable entry with knock-outs 2 x Ø 25 mm. Cable area 1.5...4 mm².

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Blue	200...250	50 and 60	216RPR6	2CMA168261R1000	1	1.13
3P+E							
4	Red	380...415	50 and 60	316RPR6	2CMA168269R1000	1	1.16
	Blue	200...250		316RPR9	2CMA168271R1000		
3P+N+E							
5	Red	346...415	50 and 60	416RPR6	2CMA168278R1000	1	1.18

32 A. IP44. Splashproof
Housing in plastic (PBT). Contains RCD 40 A / 0.03 A, type A
Cable entry with knock-outs 2 x Ø 25 mm. Cable area 2.5...10 mm².

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Blue	200...250	50 and 60	232RPR6	2CMA168283R1000	1	1.19
3P+E							
4	Red	380...415	50 and 60	332RPR6	2CMA168291R1000	1	1.20
	Blue	200...250		332RPR9	2CMA168293R1000		
3P+N+E							
5	Red	346...415	50 and 60	432RPR6	2CMA168300R1000	1	1.22



Dimensions (mm)

Type	A	B	C	C1	D	E
216RPR...416RPR...	199.5	120	170	90	243	149
232RPR...432RPR...	199.5	120	170	90	243	149

Accessories

Auxillary contact

CRITICAL & SAFE



OA1G10
OA1G01

Auxillary contacts for all switched socket outlet 16...125 A.
Technical data according to IEC 60947-5-1. Ith 16 A.
Insulation voltage 690 V. Operational voltage (V) 230/400/690. Operational current (A) 6/4/2.

Description	Order Code	Pkg qty
Auillary contact OA1G10 (normally open)	2CMA144690R1000	1
Auillary contact OA1G01 (normally closed)	2CMA144691R1000	



Industrial plugs and sockets
Tough & Safe

Plugs



Type P...
63 A, IP44



Type P...W
16A...125 A, IP67

Connectors



Type C...
63 A, IP44



Type C...W
16 A...125 A, IP67

Inlets



For wall mounting, Type BS...
63 A, IP44



For wall mounting, Type BS...W
16 A...125 A, IP67



For panel mounting with straight flange, Type ...BU...
63 A, IP44



For panel mounting with straight flange, Type BU...W
63 A...125 A, IP67



For panel mounting with angled flange, Type BAU ...W
16-32A, IP67

Socket outlet



For wall mounting, Type RS...
63 A, IP44



For wall mounting, Type RS...W
16 A...125 A, IP67



For panel mounting with unified straight flange, Type RU...
63 A, IP44



For panel mounting with unified angled flange, Type RAU...
63 A, IP44



For panel mounting with unified angled flange, Type RAU ...W
16 A...32 A, IP67



For panel mounting with unified straight flange, Type RU...W
63 A...125 A, IP67

Product overview
Tough & Safe

Tough & Safe is the range for applications in environments that have high demand of functionality and safety. The robust housing is made of PBT plastic. The range Tough & Safe is available as watertight (IP67, 16-125 A) and splashproof (IP44, 63 A).

The devices are equipped with internal and external cable clamps. The 63A and the 125 A devices are equipped with two screws on each terminal.

Features
- IP67 Watertight or IP44 Splashproof
- 16-125 A, 50-690 VAC
- IEC 60 309-1, -2
- All external screws are made of stainless steel

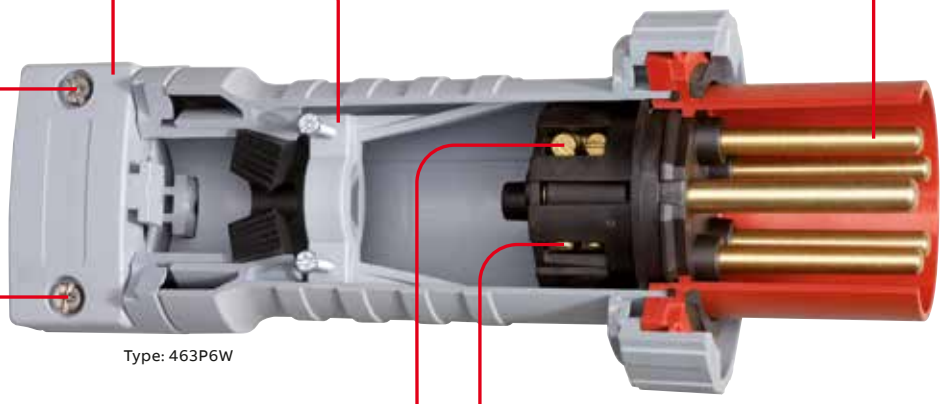
Application examples
- Industry/workshops
- Harbours/shipyards
- Mines
- Food & beverage

Clear marking, at the front and the rear of the terminals
Ground ⏚
Neutral N
Phase L1, L2, L3

Internal and external cable clamp

Clean brass pins

External screws made of stainless steel



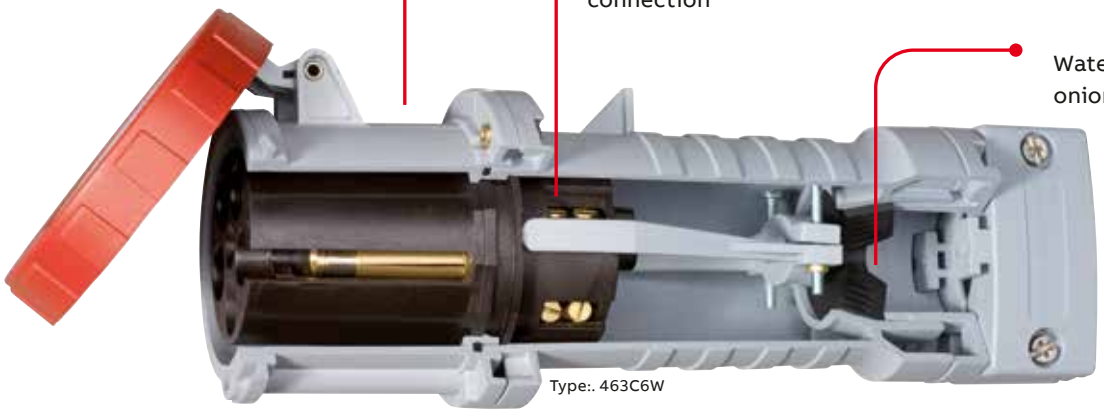
Type: 463P6W

Rear terminals, raised lettering, identification contacts

Robust plastic housing that withstands most chemicals found in industrial environments

Two screws at each terminal to assure safe and reliable cable connection

Watertight chloroprene onion skin grommet



Type:. 463C6W

Plugs

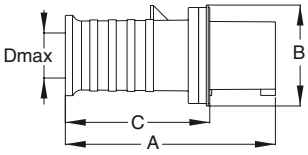
TOUGH & SAFE



463P6

63 A, IP44 Splashproof
Plastic enclosure (PBT). Cable entry with membrane. Cable area 4-16 mm². With pilot contact.

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	263P1	2CMA166746R1000	1	0.60
		Yellow	100...130	50 and 60	263P4	2CMA166740R1000		
		Blue	200...250		263P6	2CMA166742R1000		
		Blue	200...250		263P9	2CMA166744R1000		
3P+E								
4		Grey		AC	363P1	2CMA166760R1000	1	0.70
		Black	600...690	50 and 60	363P5	2CMA166750R1000		
		Red	380...415		363P6	2CMA166752R1000		
		Black	480...500		363P7	2CMA166754R1000		
		Blue	200...250		363P9	2CMA166756R1000		
		Red	440...460	60	363P11	2CMA166758R1000		
3P+N+E								
5		Red	346...415	50 and 60	463P6	2CMA166764R1000	1	0.75



Dimensions (mm)

Type	A	B	C	Dmax
263-463P..	215	103	148	35

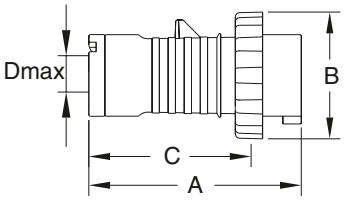
Plugs



216P6W

16 A, IP67 Watertight
Plastic enclosure (PBT). Cable entry with compression gland. Cable area 1-2.5 mm².

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	216P1W	2CMA166466R1000	1	0.18
		Grey	>50...250	DC	216P3W	2CMA166456R1000		
		Yellow	100...130	50 and 60	216P4W	2CMA166458R1000		
		Blue	200...250		216P6W	2CMA166460R1000		
		Red	380...415		216P9W	2CMA166462R1000		
		Grey	transf		216P12W	2CMA166464R1000		
3P+E								
4		Grey		AC	316P1W	2CMA166486R1000	1	0.24
		Green	> 50 V~	>300...500	316P2W	2CMA166468R1000		
		Red	380/440	50/60	316P3W	2CMA166470R1000		
		Yellow	100...130	50 and 60	316P4W	2CMA166472R1000		
		Black	600...690		316P5W	2CMA166474R1000		
		Red	380...415		316P6W	2CMA166476R1000		
		Black	480...500		316P7W	2CMA166478R1000		
		Blue	200...250		316P9W	2CMA166480R1000		
		Green	> 50 V~	100...300	316P10W	2CMA166482R1000		
		Red	440...460	60	316P11W	2CMA166484R1000		
3P+N+E								
5		Grey		AC	416P1W	2CMA166502R1000	1	0.26
		Green	> 50 V~	>300...500	416P2W	2CMA166488R1000		
		Yellow	100...130	50 and 60	416P4W	2CMA166492R1000		
		Black	600...690		416P5W	2CMA126773R1000		
		Red	346...415		416P6W	2CMA166494R1000		
		Black	480...500		416P7W	2CMA166496R1000		
		Blue	208...250		416P9W	2CMA166498R1000		
		Red	440...460	60	416P11W	2CMA166500R1000		



Dimensions (mm)

Type	A	B	C	Dmax
216P..W	128	71	94	13
316P..W	144	79	111	17
416P..W	146	87	112	17

Plugs

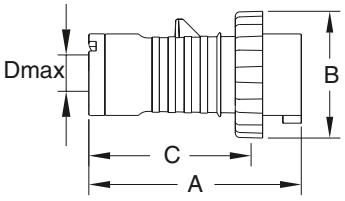
TOUGH & SAFE



432P6W

32 A, IP67 Watertight
Plastic enclosure (PBT). Cable entry with compression gland. Cable area 2.5-6 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	232P1W	2CMA166728R1000	1	0.28
		Grey	> 50...250	DC	232P3W	2CMA105986R1000		
		Yellow	100...130	50 and 60	232P4W	2CMA166504R1000		
		Blue	200...250		232P6W	2CMA166722R1000		
		Red	380...415		232P9W	2CMA166724R1000		
		Grey	transf		232P12W	2CMA166726R1000		
3P+E								
4		Grey		AC	332P1W	2CMA166516R1000	1	0.30
		Green	> 50 V~	>300...500	332P2W	2CMA166730R1000		
		Red	380/440	50/60	332P3W	2CMA166732R1000		
		Yellow	100...130	50 and 60	332P4W	2CMA166734R1000		
		Black	600...690		332P5W	2CMA166736R1000		
		Red	380...415		332P6W	2CMA166738R1000		
		Black	480...500		332P7W	2CMA166506R1000		
		Blue	200...250		332P9W	2CMA166508R1000		
		Green	> 50 V~	100...300	332P10W	2CMA166510R1000		
		Red	440...460	60	332P11W	2CMA166513R1000		
3P+N+E								
5		Grey		AC	432P1W	2CMA166532R1000	1	0.32
		Green	> 50 V~	>300...500	432P2W	2CMA166518R1000		
		Red	380/440	50/60	432P3W	2CMA166520R1000		
		Yellow	100...130	50 and 60	432P4W	2CMA166522R1000		
		Black	600...690		432P5W	2CMA126656R1000		
		Red	346...415		432P6W	2CMA166524R1000		
		Black	480...500		432P7W	2CMA166526R1000		
		Blue	208...250		432P9W	2CMA166528R1000		
		Red	440...460	60	432P11W	2CMA166530R1000		



Dimensions (mm)

Type	A	B	C	Dmax
232P..W	147	94	105	21.5
332P..W	147	94	105	21.5
432P..W	161	101	119	21.5

Plugs

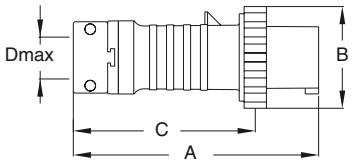
TOUGH & SAFE



263P6W

63 A, IP67 Watertight
Plastic enclosure (PBT). Cable entry with compression gland, internal and external cable clamp. Cable area 4-16 mm²
With pilot contact.

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	263P1W	2CMA166780R1000	1	0.95
		Yellow	100...130	50 and 60	263P4W	2CMA166774R1000		
		Blue	200...250		263P6W	2CMA166776R1000		
		Red	380...415		263P9W	2CMA166778R1000		
3P+E								
4		Grey		AC	363P1W	2CMA166794R1000	1	1.05
		Yellow	100...130	50 and 60	363P4W	2CMA166782R1000		
		Black	600...690		363P5W	2CMA166784R1000		
		Red	380...415		363P6W	2CMA166786R1000		
		Black	480...500		363P7W	2CMA166788R1000		
		Blue	200...250		363P9W	2CMA166790R1000		
		Red	440...460	60	363P11W	2CMA166792R1000		
3P+N+E								
5		Grey		AC	463P1W	2CMA166806R1000	1	1.15
		Green	> 50 V~	>300...500	463P2W	2CMA168186R1000		
		Yellow	100...130	50 and 60	463P4W	2CMA166796R1000		
		Red	346...415		463P6W	2CMA166798R1000		
		Black	480...500		463P7W	2CMA166800R1000		
		Blue	208...250		463P9W	2CMA166802R1000		
		Red	440...460	60	463P11W	2CMA166804R1000		



Dimensions (mm)

Type	A	B	C	Dmax
263-463P..W	275	114	213	41

Plugs

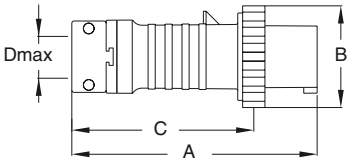
TOUGH & SAFE



4125P6W

125 A, IP67 Watertight
Plastic enclosure (PBT). Cable entry with compression gland, internal nd external cable clamp. Cable area 16-50 mm²
With pilot contact.

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Grey		AC	2125P1W	2CMA166812R1000	1	1.32
	Yellow	100...130	50 and 60	2125P4W	2CMA166808R1000		
	Blue	200...250		2125P6W	2CMA166810R1000		
3P+E							
4	Grey		AC	3125P1W	2CMA166824R1000	1	1.43
	Yellow	100...130	50 and 60	3125P4W	2CMA166814R1000		
	Black	600...690		3125P5W	2CMA166815R1000		
	Red	380...415		3125P6W	2CMA166816R1000		
	Black	480...500		3125P7W	2CMA166818R1000		
	Blue	200...250		3125P9W	2CMA166820R1000		
	Red	440...460	60	3125P11W	2CMA166822R1000		
3P+N+E							
5	Grey		AC	4125P1W	2CMA166836R1000	1	1.54
	Yellow	100...130	50 and 60	4125P4W	2CMA166826R1000		
	Black	600...690		4125P5W	2CMA126658R1000		
	Red	346...415		4125P6W	2CMA166828R1000		
	Black	480...500		4125P7W	2CMA166830R1000		
	Blue	208...250		4125P9W	2CMA166832R1000		
	Black	440...460	60	4125P11W	2CMA166834R1000		



Dimensions (mm)

Type	A	B	C	Dmax
2125-4125P..W	313	130	242	48

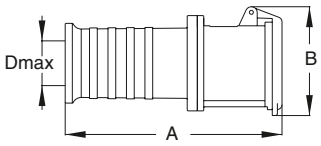
Connectors



463C6

63 A, IP44 Splashproof
Plastic enclosure (PBT). Cable entry with membrane. Cable area 4-16 mm². With pilot contact.

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	263C1	2CMA166844R1000	1	0.80
		Yellow	100...130	50 and 60	263C4	2CMA166838R1000		
		Blue	200...250		263C6	2CMA166840R1000		
		Red	380...415		263C9	2CMA166842R1000		
3P+E								
4		Grey		AC	363C1	2CMA166858R1000	1	0.83
		Yellow	100...130	50 and 60	363C4	2CMA166846R1000		
		Black	600...690		363C5	2CMA166848R1000		
		Red	380...415		363C6	2CMA166850R1000		
		Black	480...500		363C7	2CMA166852R1000		
		Blue	200...250		363C9	2CMA166854R1000		
		Red	440...460	60	363C11	2CMA166856R1000		
3P+N+E								
5		Grey		AC	463C1	2CMA166870R1000	1	0.88
		Black	600...690	50 and 60	463C5	2CMA126661R1000		
		Red	346...415		463C6	2CMA166862R1000		
		Black	480...500		463C7	2CMA166864R1000		
		Blue	200...250		463C9	2CMA166866R1000		



Dimensions (mm)

Type	A	B	Dmax
263-463C..	224	112	35

Connectors

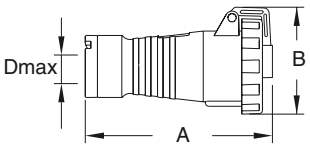
TOUGH & SAFE



216C6W

16 A, IP67 Watertight
Plastic enclosure (PBT). Cable entry with compression gland. Cable area 1-2.5 mm²

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Grey		AC	216C1W	2CMA166544R1000	1	0.22
	Grey	>50...250	DC	216C3W	2CMA166534R1000		
	Yellow	100...130	50 and 60	216C4W	2CMA166536R1000		
	Blue	200...250		216C6W	2CMA166538R1000		
	Red	380...415		216C9W	2CMA166540R1000		
	Grey	transf		216C12W	2CMA166542R1000		
3P+E							
4	Grey		AC	316C1W	2CMA166564R1000	1	0.31
	Green	> 50 V~	>300...500	316C2W	2CMA166546R1000		
	Red	380/440	50/60	316C3W	2CMA166548R1000		
	Yellow	100...130	50 and 60	316C4W	2CMA166550R1000		
	Black	600...690		316C5W	2CMA166552R1000		
	Red	380...415		316C6W	2CMA166554R1000		
	Black	480...500		316C7W	2CMA166556R1000		
	Blue	200...250		316C9W	2CMA166558R1000		
	Green	> 50 V~	100...300	316C10W	2CMA166560R1000		
	Red	440...460	60	316C11W	2CMA166562R1000		
3P+N+E							
5	Grey		AC	416C1W	2CMA166580R1000	1	0.32
	Green	> 50 V~	>300...500	416C2W	2CMA166566R1000		
	Red	380/440	50/60	416C3W	2CMA166568R1000		
	Yellow	100...130	50 and 60	416C4W	2CMA166570R1000		
	Black	600...690		416C5W	2CMA126662R1000		
	Red	346...415		416C6W	2CMA166572R1000		
	Black	480...500		416C7W	2CMA166574R1000		
	Blue	208...250		416C9W	2CMA166576R1000		
	Red	440...460	60	416C11W	2CMA166578R1000		



Dimensions (mm)

Type	A	B	Dmax
216C..W	151	80	13
316C..W	168	88	17
416C..W	170	97	17

Connectors

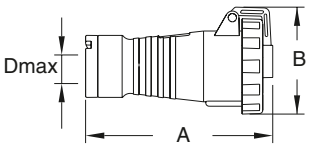
TOUGH & SAFE



432C6W

32 A, IP67 Watertight
Plastic enclosure (PBT). Cable entry with compression gland. Cable area 2.5-6 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	232C1W	2CMA166590R1000	1	0.35
		Yellow	100...130	50 and 60	232C4W	2CMA166582R1000		
		Blue	200...250		232C6W	2CMA166584R1000		
		Red	380...415		232C9W	2CMA166586R1000		
		Grey	transf		232C12W	2CMA166588R1000		
3P+E								
4		Grey		AC	332C1W	2CMA166592R1000	1	0.38
		Green	> 50 V~	>300...500	332C2W	2CMA166596R1000		
		Red	380/440	50/60	332C3W	2CMA166598R1000		
		Yellow	100...130	50 and 60	332C4W	2CMA166600R1000		
		Black	600...690		332C5W	2CMA166602R1000		
		Red	380...415		332C6W	2CMA166604R1000		
		Black	480...500		332C7W	2CMA166606R1000		
		Blue	200...250		332C9W	2CMA166608R1000		
		Green	> 50 V~	100...300	332C10W	2CMA166610R1000		
		Red	440...460	60	332C11W	2CMA166594R1000		
3P+N+E								
5		Grey		AC	432C1W	2CMA166526R1000	1	0.41
		Green	> 50 V~	>300...500	432C2W	2CMA166612R1000		
		Red	380/440	50/60	432C3W	2CMA166614R1000		
		Yellow	100...130	50 and 60	432C4W	2CMA166616R1000		
		Black	600...690		432C5W	2CMA126663R1000		
		Red	346...415		432C6W	2CMA166618R1000		
		Black	480...500		432C7W	2CMA166620R1000		
		Blue	208...250		432C9W	2CMA166622R1000		
		Red	440...460	60	432C11W	2CMA166624R1000		



Dimensions (mm)

Type	A	B	Dmax
232C..W	177	102	21.5
332C..W	177	102	21.5
432C..W	182	109	21.5

Connectors

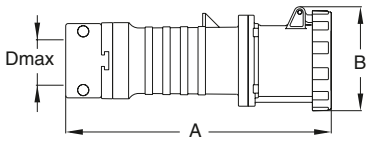
TOUGH & SAFE



263C6W

63 A, IP67 Watertight
Plastic enclosure (PBT). Cable entry with compression gland. Internal and external cable clamp. Cable area 4-16 mm²
With pilot contact.

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	263C1W	2CMA166878R1000	1	0.80
		Yellow	100...130	50 and 60	263C4W	2CMA166872R1000		
		Blue	200...250		263C6W	2CMA166874R1000		
		Red	380...415		263C9W	2CMA166876R1000		
3P+E								
4		Grey		AC	363C1W	2CMA166902R1000	1	0.83
		Yellow	100...130	50 and 60	363C4W	2CMA166890R1000		
		Black	600...690		363C5W	2CMA166892R1000		
		Red	380...415		363C6W	2CMA166894R1000		
		Black	480...500		363C7W	2CMA166896R1000		
		Blue	200...250		363C9W	2CMA166898R1000		
		Red	440...460	60	363C11W	2CMA166900R1000		
3P+N+E								
5		Grey		AC	463C1W	2CMA166914R1000	1	0.88
		Green	> 50 V~	>300...500	463C2W	2CMA168184R1000		
		Yellow	100...130	50 and 60	463C4W	2CMA166904R1000		
		Red	346...415		463C6W	2CMA166906R1000		
		Black	480...500		463C7W	2CMA166908R1000		
		Blue	208...250		463C9W	2CMA166910R1000		
		Red	440...460	60	463C11W	2CMA166912R1000		



Dimensions (mm)

Type	A	B	Dmax
263-463C..W	286	111	41

Connectors

TOUGH & SAFE



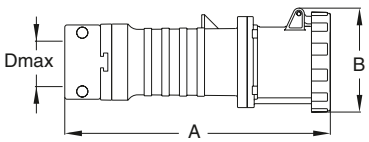
4125C6W

125 A, IP67 Watertight
Plastic enclosure (PBT). Cable entry with compression gland. Internal and external cable clamp.
LP types with long phase sleeves and pilot contact. Cable area 16-50 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	2125C1W	2CMA166920R1000	1	1.37
		Yellow	100...130	50 and 60	2125C4W	2CMA166916R1000		
		Blue	200...250		2125C6W	2CMA166918R1000		
3P+E								
4		Grey		AC	3125C1W	2CMA166932R1000	1	1.41
		Yellow	100...130	50 and 60	3125C4W	2CMA166922R1000		
		Black	600...690		3125C5W	2CMA166923R1000		
		Red	380...415		3125C6W	2CMA166924R1000		
		Red	380...415		3125C6W LP*	2CMA169211R1000		
		Black	480...500		3125C7W	2CMA166926R1000		
		Blue	200...250		3125C9W	2CMA166928R1000		
		Red	440...460	60	3125C11W	2CMA166930R1000		
3P+N+E								
5		Grey		AC	4125C1W	2CMA166944R1000	1	1.53
		Yellow	100...130	50 and 60	4125C4W	2CMA166934R1000		
		Red	346...415		4125C6W	2CMA166936R1000		
		Red	346...415		4125C6W LP*	2CMA169212R1000		
		Black	480...500		4125C7W	2CMA166938R1000		
		Blue	208...250		4125C9W	2CMA166940R1000		
		Red	440...460	60	4125C11W	2CMA166942R1000		

* LP: These products are equipped with pilot contacts. In all products with pilot contacts according to IEC 60 309-1 and -2, the pilot pin and sleeve are shorter than the other connecting pins and sleeves.

This means that the "pilot circuit" breaks before and connects after the main circuit giving optimum safety. The maximum connection area is 4 mm²



Dimensions (mm)

Type	A	B	Dmax
2125-4125C..W	325	122	48

Surface socket outlets
Plastic enclosed

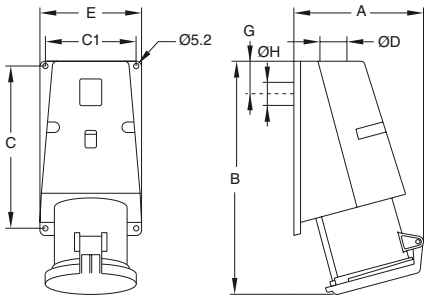
TOUGH & SAFE



463RS6

63 A, IP44 Splashproof
Plastic enclosure (PBT). Cable entry M32, alternative rear knock-out. Cable area 6-25 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	263RS1	2CMA167480R1000	1	0.95
		Yellow	100...130	50 and 60	263RS4	2CMA167474R1000		
		Blue	200...250		263RS6	2CMA167476R1000		
		Red	380...415		263RS9	2CMA167478R1000		
3P+E								
4		Grey		AC	363RS1	2CMA167506R1000	1	0.99
		Yellow	100...130	50 and 60	363RS4	2CMA167494R1000		
		Black	600...690		363RS5	2CMA167496R1000		
		Red	380...415		363RS6	2CMA167498R1000		
		Black	480...500		363RS7	2CMA167500R1000		
		Blue	200...250		363RS9	2CMA167502R1000		
		Red	440...460		363RS11	2CMA167504R1000		
3P+N+E								
5		Grey		AC	463RS1	2CMA167492R1000	1	1.05
		Black	600...690	50 and 60	463RS5	2CMA126668R1000		
		Red	346...415		463RS6	2CMA167484R1000		
		Black	480...500		463RS7	2CMA167486R1000		
		Blue	200...250		463RS9	2CMA167488R1000		



Dimensions (mm)

Type	A	B	C	C1	ØD	E	G	H
263-463RS..	136	254	170	95	M32	107	68	35

Surface socket outlets
Plastic enclosed

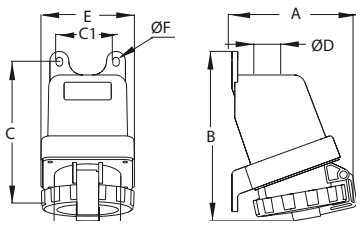
TOUGH & SAFE



216RS6W

16 A, IP67 Watertight
Plastic enclosure (PBT). Cable entry Ø 25 mm. Cable area 1.5-4 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Yellow	100...130	50 and 60	216RS4W	2CMA167148R1000	1	0.34
		Blue	200...250		216RS6W	2CMA167149R1000		
		Red	380...415		216RS9W	2CMA167150R1000		
		Grey	transf		216RS12W	2CMA167151R1000		
		Grey		AC	216RS1W	2CMA167152R1000		
3P+E								
4		Green	> 50 V~	>300...500	316RS2W	2CMA167153R1000	1	0.37
		Red	380/440	50/60	316RS3W	2CMA167154R1000		
		Yellow	100...130	50 and 60	316RS4W	2CMA167155R1000		
		Black	600...690		316RS5W	2CMA167156R1000		
		Red	380...415		316RS6W	2CMA167157R1000		
		Black	480...500		316RS7W	2CMA167158R1000		
		Blue	200...250		316RS9W	2CMA167159R1000		
		Green	> 50 V~	100...300	316RS10W	2CMA167160R1000		
		Red	440...460	60	316RS11W	2CMA167161R1000		
		Grey		AC	316RS1W	2CMA167162R1000		
3P+N+E								
5		Green	> 50 V~	>300...500	416RS2W	2CMA167163R1000	1	0.40
		Red	380/440	50/60	416RS3W	2CMA167164R1000		
		Yellow	100...130	50 and 60	416RS4W	2CMA167165R1000		
		Black	600...690		416RS5W	2CMA126669R1000		
		Red	346...415		416RS6W	2CMA167166R1000		
		Black	480...500		416RS7W	2CMA167167R1000		
		Blue	208...250		416RS9W	2CMA167168R1000		
		Red	440...460	60	416RS11W	2CMA167169R1000		
		Grey		AC	416RS1W	2CMA167170R1000		



Dimensions (mm)

Type	A	B	C	C1	D	E	G	H
216RS..W	115	172	150	60	60	25	99	6.5
316RS..W	118	170	150	60	60	25	99	6.5
416RS..W	124	169	150	60	60	25	99	6.5

Surface socket outlets
Plastic enclosed

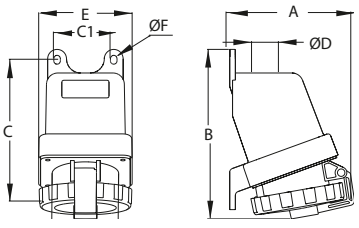
TOUGH & SAFE



232RS6W

32 A, IP67 Watertight
Plastic enclosure (PBT). Cable entry Ø 25 mm. Cable area 2.5-10 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Yellow	100...130	50 and 60	232RS4W	2CMA167171R1000	1	0.41
		Blue	200...250		232RS6W	2CMA167172R1000		
		Red	380...415		232RS9W	2CMA167173R1000		
		Grey	transf		232RS12W	2CMA167174R1000		
		Grey		AC	232RS1W	2CMA167175R1000		
3P+E								
4		Green	> 50 V~	>300...500	332RS2W	2CMA167176R1000	1	0.43
		Red	380/440	50/60	332RS3W	2CMA167177R1000		
		Yellow	100...130	50 and 60	332RS4W	2CMA167178R1000		
		Black	600...690		332RS5W	2CMA167179R1000		
		Red	380...415		332RS6W	2CMA167180R1000		
		Black	480...500		332RS7W	2CMA167181R1000		
		Blue	200...250		332RS9W	2CMA167182R1000		
		Green	> 50 V~	100...300	332RS10W	2CMA167183R1000		
		Red	440...460	60	332RS11W	2CMA167184R1000		
		Grey		AC	332RS1W	2CMA167185R1000		
3P+N+E								
5		Green	> 50 V~	>300...500	432RS2W	2CMA167186R1000	1	0.48
		Red	380/440	50/60	432RS3W	2CMA167187R1000		
		Yellow	100...130	50 and 60	432RS4W	2CMA167188R1000		
		Black	600...690		432RS5W	2CMA126670R1000		
		Red	346...415		432RS6W	2CMA167189R1000		
		Black	480...500		432RS7W	2CMA167190R1000		
		Blue	208...250		432RS9W	2CMA167191R1000		
		Red	440...460	60	432RS11W	2CMA167192R1000		
		Grey		AC	432RS1W	2CMA167193R1000		



Dimensions (mm)

Type	A	B	C	C1	D	E	G	H
232RS..W	129	178	150	60	6	25	99	6.5
332RS..W	129	178	150	60	60	25	99	6.5
432RS..W	131	178	150	60	60	25	99	6.5

Surface socket outlets
Plastic enclosed

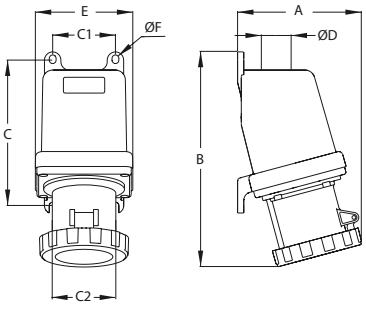
TOUGH & SAFE



263RS6W

63 A, IP67 Watertight
Plastic enclosure (PBT). Cable entry Ø 32 mm. Cable area 6-25 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	263RS1W	2CMA167310R1000	1	1.00
		Yellow	100...130	50 and 60	263RS4W	2CMA167304R1000		
		Blue	200...250		263RS6W	2CMA167306R1000		
		Red	380...415		263RS9W	2CMA167308R1000		
3P+E								
4		Grey		AC	363RS1W	2CMA167324R1000	1	1.07
		Yellow	100...130	50 and 60	363RS4W	2CMA167312R1000		
		Black	600...690		363RS5W	2CMA167314R1000		
		Red	380...415		363RS6W	2CMA167316R1000		
		Black	480...500		363RS7W	2CMA167318R1000		
		Blue	200...250		363RS9W	2CMA167320R1000		
		Red	440...460	60	363RS11W	2CMA167322R1000		
3P+N+E								
5		Grey		AC	463RS1W	2CMA167336R1000	1	1.15
		Yellow	100...130	50 and 60	463RS4W	2CMA167326R1000		
		Black	600...690		463RS5W	2CMA126671R1000		
		Red	346...415		463RS6W	2CMA167328R1000		
		Black	480...500		463RS7W	2CMA167330R1000		
		Blue	208...250		463RS9W	2CMA167332R1000		
		Red	440...460	60	463RS11W	2CMA167334R1000		



Dimensions (mm)

Type	A	B	C	C1	C2	D	E	F
263-463RS..W	150	263	176	76	76	32	118	8.0

Surface socket outlets
Plastic enclosed

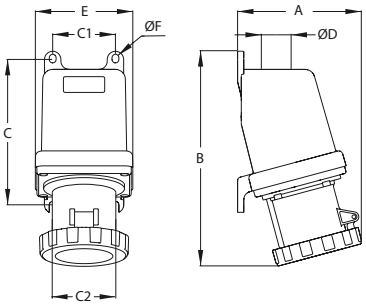
TOUGH & SAFE



4125RS6W

125 A, IP67 Watertight
Plastic enclosure (PBT). Cable entry Ø 50 mm. Cable area 16-70 mm²

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	2125RS1W	2CMA167248R1000	1	1.45
		Yellow	100...130	50 and 60	2125RS4W	2CMA167244R1000		
		Blue	200...250		2125RS6W	2CMA167246R1000		
3P+E								
4		Grey		AC	3125RS1W	2CMA167260R1000	1	1.55
		Yellow	100...130	50 and 60	3125RS4W	2CMA167250R1000		
		Black	600...690		3125RS5W	2CMA167251R1000		
		Red	380...415		3125RS6W	2CMA167252R1000		
		Black	480...500		3125RS7W	2CMA167254R1000		
		Blue	200...250		3125RS9W	2CMA167256R1000		
		Red	440...460	60	3125RS11W	2CMA167258R1000		
3P+N+E								
5		Grey		AC	4125RS1W	2CMA167272R1000	1	1.69
		Yellow	100...130	50 and 60	4125RS4W	2CMA167262R1000		
		Black	600...690		4125RS5W	2CMA126672R1000		
		Red	346...415		4125RS6W	2CMA167264R1000		
		Black	480...500		4125RS7W	2CMA167266R1000		
		Blue	208...250		4125RS9W	2CMA167268R1000		
		Red	440...460	60	4125RS11W	2CMA167270R1000		



Dimensions (mm)

Type	A	B	C	C1	C2	D	E	F
2125-4125RS..W	171	282	188	102	85	50	145	9.0

Surface socket outlets

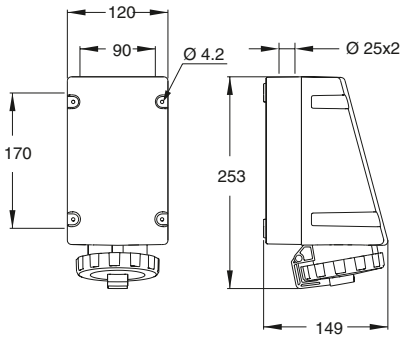
For looping



216RL6W

16 A, IP67 Watertight
Plastic enclosure (PBT). Cable entry knock-outs 2×Ø 25 mm. Terminal block 2×(2.5-10 mm²).
Outlet is connected to terminal block.

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	216RL1W	2CMA168461R1000	1	0.63
		Grey	>50...250	DC	216RL3W	2CMA168456R1000		
		Yellow	100...130	50 and 60	216RL4W	2CMA168457R1000		
		Blue	200...250		216RL6W	2CMA168458R1000		
		Red	380...415		216RL9W	2CMA168459R1000		
		Grey	transf	DC	216RL12W	2CMA168460R1000		
3P+E								
4		Grey		AC	316RL1W	2CMA168471R1000	1	0.66
		Green	> 50 V~	>300...500	316RL2W	2CMA168462R1000		
		Red	380/440	50/60	316RL3W	2CMA168463R1000		
		Yellow	100...130	50 and 60	316RL4W	2CMA168464R1000		
		Black	600...690		316RL5W	2CMA168465R1000		
		Red	380...415		316RL6W	2CMA168466R1000		
		Black	480...500		316RL7W	2CMA168467R1000		
		Blue	200...250		316RL9W	2CMA168468R1000		
		Green	> 50 V~	100...300	316RL10W	2CMA168469R1000		
		Red	440...460	60	316RL11W	2CMA168470R1000		
3P+N+E								
5		Grey		AC	416RL1W	2CMA168479R1000	1	0.68
		Green	> 50 V~	>300...500	416RL2W	2CMA168472R1000		
		Red	380/440	50/60	416RL3W	2CMA168473R1000		
		Yellow	100...130	50 and 60	416RL4W	2CMA168474R1000		
		Red	346...415		416RL6W	2CMA168475R1000		
		Black	480...500		416RL7W	2CMA168476R1000		
		Blue	208...250		416RL9W	2CMA168477R1000		
		Red	440...460	60	416RL11W	2CMA168478R1000		



Surface socket outlets

For looping

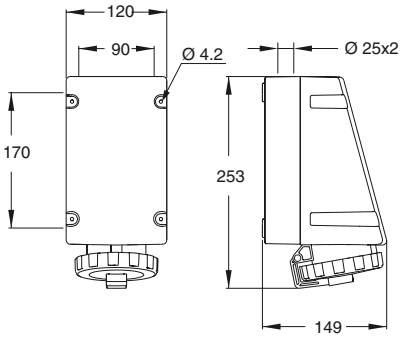
TOUGH & SAFE



432RL6W

32 A, IP67 Watertight
Plastic enclosure (PBT). Cable entry knock-outs 2xØ 25 mm. Terminal block 2x(2.5-10 mm²).
Outlet is connected to terminal block.

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	232RL1W	2CMA168484R1000	1	0.69
		Yellow	100...130	50 and 60	232RL4W	2CMA168480R1000		
		Blue	200...250		232RL6W	2CMA168481R1000		
		Red	380...415		232RL9W	2CMA168482R1000		
		Grey	transf		232RL12W	2CMA168483R1000		
3P+E								
4		Grey		AC	332RL1W	2CMA168494R1000	1	0.70
		Green	> 50 V~	>300...500	332RL2W	2CMA168485R1000		
		Red	380/440	50/60	332RL3W	2CMA168486R1000		
		Yellow	100...130	50 and 60	332RL4W	2CMA168487R1000		
		Black	600...690		332RL5W	2CMA168488R1000		
		Red	380...415		332RL6W	2CMA168489R1000		
		Black	480...500		332RL7W	2CMA168490R1000		
		Blue	200...250		332RL9W	2CMA168491R1000		
		Green	> 50 V~	100...300	332RL10W	2CMA168492R1000		
		Red	440...460	60	332RL11W	2CMA168493R1000		
3P+N+E								
5		Grey		AC	432RL1W	2CMA168502R1000	1	0.72
		Green	> 50 V~	>300...500	432RL2W	2CMA168495R1000		
		Red	380/440	50/60	432RL3W	2CMA168496R1000		
		Yellow	100...130	50 and 60	432RL4W	2CMA168497R1000		
		Red	346...415		432RL6W	2CMA168498R1000		
		Black	480...500		432RL7W	2CMA168499R1000		
		Blue	208...250		432RL9W	2CMA168500R1000		
		Red	440...460	60	432RL11W	2CMA168501R1000		



Surface socket outlets

For looping

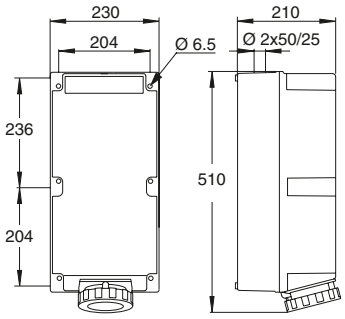


4125RL6W

125 A, IP67 Watertight
Plastic enclosure (PBT). Cable entry with knock-outs 2×Ø 50/25 mm. Terminal block 2×(16-70 mm²).
Outlet is connected to terminal block.

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	2125RL1W	2CMA168528R1000	1	4.00
		Yellow	100...130	50 and 60	2125RL4W	2CMA168526R1000		
		Blue	200...250		2125RL6W	2CMA168527R1000		
3P+E								
4		Grey		AC	3125RL1W	2CMA168534R1000	1	4.10
		Yellow	100...130	50 and 60	3125RL4W	2CMA168529R1000		
		Red	380...415		3125RL6W	2CMA168530R1000		
		Black	480...500		3125RL7W	2CMA168531R1000		
		Blue	200...250		3125RL9W	2CMA168532R1000		
		Red	440...460	60	3125RL11W	2CMA168533R1000		
3P+N+E								
5		Grey		AC	4125RL1W	2CMA168540R1000	1	4.25
		Yellow	100...130	50 and 60	4125RL4W	2CMA168535R1000		
		Red	346...415		4125RL6W	2CMA168536R1000		
		Black	480...500		4125RL7W	2CMA168537R1000		
		Blue	208...250		4125RL9W	2CMA168538R1000		
		Red	440...460	60	4125RL11W	2CMA168539R1000		

- 2125 - 4125RL...W can be equipped with sealing up to 70 mm².
- Cable clamps for Al available on request.
- RL...W have terminal block for 2 wire feeding under the same clamp.



2125 - 4125RL..W

Surface inlets

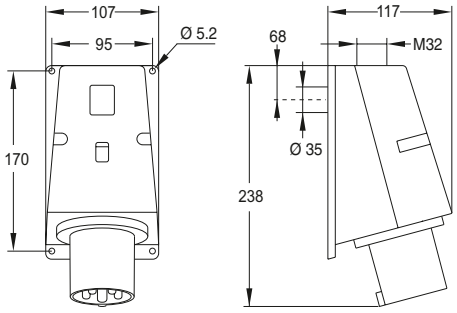
TOUGH & SAFE



463BS6

63 A, IP44 Splashproof
Plastic enclosure (PBT). M32 alternative rear knock-out cable entry. Cable area 6-25 mm².

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Grey		AC	263BS1	2CMA167548R1000	1	0.80
	Yellow	100...130	50 and 60	263BS4	2CMA167542R1000		
	Blue	200...250		263BS6	2CMA167544R1000		
	Red	380...415		263BS9	2CMA167546R1000		
3P+E							
4	Grey		AC	363BS1	2CMA167562R1000	1	0.85
	Yellow	100...130	50 and 60	363BS4	2CMA167550R1000		
	Black	600...690		363BS5	2CMA167552R1000		
	Red	380...415		363BS6	2CMA167554R1000		
	Black	480...500		363BS7	2CMA167556R1000		
	Blue	200...250		363BS9	2CMA167558R1000		
	Red	440...460	60	363BS11	2CMA167560R1000		
3P+N+E							
5	Grey		AC	463BS1	2CMA167574R1000	1	0.90
	Black	600...690	50 and 60	463BS5	2CMA126701R1000		
	Red	346...415		463BS6	2CMA167566R1000		
	Black	480...500		463BS7	2CMA167568R1000		
	Blue	200...250		463BS9	2CMA167570R1000		



Surface inlets

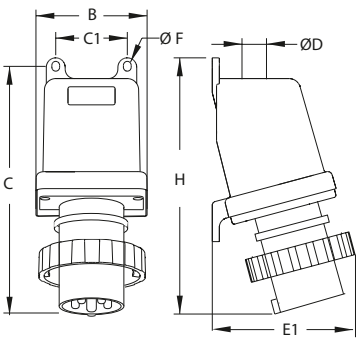
TOUGH & SAFE



216BS6W

16 A, IP67 Watertight
Plastic enclosure (PBT). Cable entry Ø 25 mm. Cable area 1.5-4 mm².

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	216BS1W	2CMA167050R1000	1	0.36
		Green	> 50 V~	>300...500	216BS2W	2CMA167051R1000		
		Yellow	100...130	50 and 60	216BS4W	2CMA167042R1000		
		Blue	200...250		216BS6W	2CMA167044R1000		
		Red	380...415		216BS9W	2CMA167046R1000		
		Grey	transf		216BS12W	2CMA167048R1000		
3P+E								
4		Grey		AC	316BS1W	2CMA167070R1000	1	0.41
		Green	> 50 V~	>300...500	316BS2W	2CMA167052R1000		
		Red	380/440	50/60	316BS3W	2CMA167054R1000		
		Yellow	100...130	50 and 60	316BS4W	2CMA167056R1000		
		Black	600...690		316BS5W	2CMA167058R1000		
		Red	380...415		316BS6W	2CMA167060R1000		
		Black	480...500		316BS7W	2CMA167062R1000		
		Blue	200...250		316BS9W	2CMA167064R1000		
		Green	> 50 V~	100...300	316BS10W	2CMA167066R1000		
		Red	440...460	60	316BS11W	2CMA167068R1000		
3P+N+E								
5		Grey		AC	416BS1W	2CMA167086R1000	1	0.43
		Green	> 50 V~	>300...500	416BS2W	2CMA167072R1000		
		Red	380/440	50/60	416BS3W	2CMA167074R1000		
		Yellow	100...130	50 and 60	416BS4W	2CMA167076R1000		
		Black	600...690		416BS5W	2CMA126774R1000		
		Red	346...415		416BS6W	2CMA167078R1000		
		Black	480...500		416BS7W	2CMA167080R1000		
		Blue	208...250		416BS9W	2CMA167082R1000		
		Red	440...460	60	416BS11W	2CMA167084R1000		



Dimensions (mm)

Type	B	C	C1	D	E1	F	H
216BS..W	99	150	60	28.3	129	06.6	196
316BS..W	99	150	60	28.3	132	06.5	202
416BS..W	99	150	60	28.3	134	06.5	209

Surface inlets

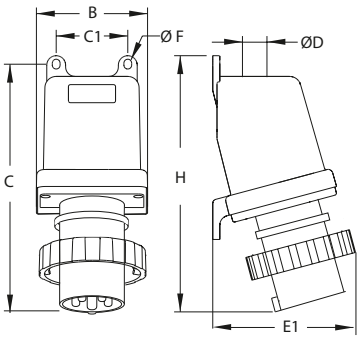
TOUGH & SAFE



432BS6W

32 A, IP67 Watertight
Plastic enclosure (PBT). Cable entry Ø 25 mm. Cable area 2.5-10 mm².

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	232BS1W	2CMA167096R1000	1	0.44
		Yellow	100...130	50 and 60	232BS4W	2CMA167088R1000		
		Blue	200...250		232BS6W	2CMA167090R1000		
		Red	380...415		232BS9W	2CMA167092R1000		
		Grey	transf		232BS12W	2CMA167094R1000		
3P+E								
4		Grey		AC	332BS1W	2CMA167114R1000	1	0.46
		Green	> 50 V~	>300...500	332BS2W	2CMA167098R1000		
		Red	380/440	50/60	332BS3W	2CMA167100R1000		
		Yellow	100...130	50 and 60	332BS4W	2CMA167102R1000		
		Black	600...690		332BS5W	2CMA167103R1000		
		Red	380...415		332BS6W	2CMA167104R1000		
		Black	480...500		332BS7W	2CMA167106R1000		
		Blue	200...250		332BS9W	2CMA167108R1000		
		Green	> 50 V~	100...300	332BS10W	2CMA167110R1000		
		Red	440...460	60	332BS11W	2CMA167112R1000		
3P+N+E								
5		Grey		AC	432BS1W	2CMA167130R1000	1	0.48
		Green	> 50 V~	>300...500	432BS2W	2CMA167116R1000		
		Red	380/440	50/60	432BS3W	2CMA167118R1000		
		Yellow	100...130	50 and 60	432BS4W	2CMA167120R1000		
		Black	600...690		432BS5W	2CMA126776R1000		
		Red	346...415		432BS6W	2CMA167122R1000		
		Black	480...500		432BS7W	2CMA167124R1000		
		Blue	208...250		432BS9W	2CMA167126R1000		
		Red	440...460	60	432BS11W	2CMA167128R1000		



Dimensions (mm)

Type	B	C	C1	D	E1	F	H
232BS..W	99	150	60	28.3	136	6.5	220
332BS..W	99	150	60	28.3	136	6.5	220
432BS..W	99	150	60	28.3	140	6.5	226

Surface inlets

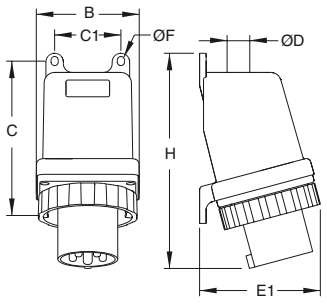
TOUGH & SAFE



263BS6W

63 A, IP67 Watertight
Plastic enclosure (PBT). Cable entry Ø 32 mm. Cable area 6-25 mm².

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	263BS1W	2CMA167344R1000	1	1.20
		Yellow	100...130	50 and 60	263BS4W	2CMA167338R1000		
		Blue	200...250		263BS6W	2CMA167340R1000		
		Red	380...415		263BS9W	2CMA167342R1000		
3P+E								
4		Grey		AC	363BS1W	2CMA167358R1000	1	1.30
		Yellow	100...130	50 and 60	363BS4W	2CMA167346R1000		
		Black	600...690		363BS5W	2CMA167348R1000		
		Red	380...415		363BS6W	2CMA167350R1000		
		Black	480...500		363BS7W	2CMA167352R1000		
		Blue	200...250		363BS9W	2CMA167354R1000		
		Red	440...460	60	363BS11W	2CMA167356R1000		
3P+N+E								
5		Grey		AC	463BS1W	2CMA167370R1000	1	1.40
		Yellow	100...130	50 and 60	463BS4W	2CMA167360R1000		
		Black	600...690		463BS5W	2CMA126775R1000		
		Red	346...415		463BS6W	2CMA167362R1000		
		Black	480...500		463BS7W	2CMA167364R1000		
		Blue	208...250		463BS9W	2CMA167366R1000		
		Red	440...460	60	463BS11W	2CMA167368R1000		



Dimensions (mm)

Type	B	C	C1	D	E1	F	H
263-463BS..W	118	176	76	38	138	8	249

Surface inlets

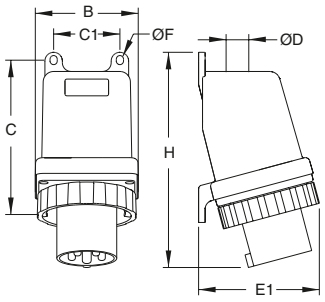
TOUGH & SAFE



4125BS6W

125 A, IP67 Watertight
Plastic enclosure (PBT). Cable entry Ø 50 mm. Cable area 16-70 mm².

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	2125BS1W	2CMA167278R1000	1	4.00
		Yellow	100...130	50 and 60	2125BS4W	2CMA167274R1000		
		Blue	200...250		2125BS6W	2CMA167276R1000		
3P+E								
4		Grey		AC	3125BS1W	2CMA167290R1000	1	4.10
		Yellow	100...130	50 and 60	3125BS4W	2CMA167280R1000		
		Red	380...415		3125BS6W	2CMA167282R1000		
		Black	480...500		3125BS7W	2CMA167284R1000		
		Blue	200...250		3125BS9W	2CMA167286R1000		
		Red	440...460	60	3125BS11W	2CMA167288R1000		
3P+N+E								
5		Grey		AC	4125BS1W	2CMA167302R1000	1	4.25
		Yellow	100...130	50 and 60	4125BS4W	2CMA167292R1000		
		Black	600...690		4125BS5W	2CMA126705R1000		
		Red	346...415		4125BS6W	2CMA167294R1000		
		Black	480...500		4125BS7W	2CMA167296R1000		
		Blue	208...250		4125BS9W	2CMA167298R1000		
		Red	440...460	60	4125BS11W	2CMA167300R1000		



Dimensions (mm)

Type	B	C	C1	D	E1	F	H
2125-4125BS..W	145	188	85	47	160	9	265

Panel mounted socket outlets

Unified straight flange

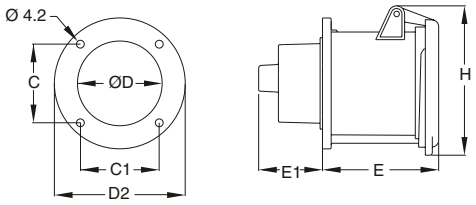
TOUGH & SAFE



463RU6

63 A, IP44 Splashproof
Plastic enclosure (PBT). Cable area 6-25 mm².

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	263RU1	2CMA167514R1000	1	0.60
		Yellow	100...130	50 and 60	263RU4	2CMA167508R1000		
		Blue	200...250		263RU6	2CMA167510R1000		
3P+E								
4		Grey		AC	363RU1	2CMA167528R1000	1	0.69
		Black	600...690	50 and 60	363RU5	2CMA167518R1000		
		Red	380...415		363RU6	2CMA167520R1000		
		Black	480...500		363RU7	2CMA167522R1000		
		Blue	200...250		363RU9	2CMA167524R1000		
3P+N+E								
5		Grey		AC	463RU1	2CMA167540R1000	1	0.76
		Black	600...690	50 and 60	463RU5	2CMA126675R1000		
		Red	346...415		463RU6	2CMA167532R1000		



Dimensions (mm)

Type	C	C1	D	D2	E	E1	H
263-463RU..	61	61	70	104	87	48	112

Panel mounted socket outlets

Unified straight flange

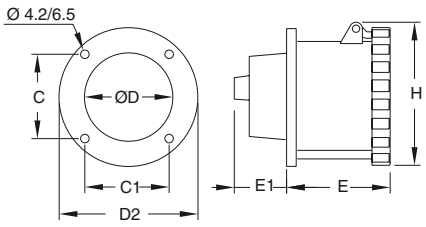
TOUGH & SAFE



263RU6W

63 A, IP67 Watertight
Plastic enclosure (PBT). Cable area 6-25 mm². With pilot contact.

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	263RU1W	2CMA167378R1000	1	0.64
		Yellow	100...130	50 and 60	263RU4W	2CMA167372R1000		
		Blue	200...250		263RU6W	2CMA167374R1000		
		Red	380...415		263RU9W	2CMA167376R1000		
3P+E								
4		Grey		AC	363RU1W	2CMA167392R1000	1	0.69
		Yellow	100...130	50 and 60	363RU4W	2CMA167380R1000		
		Black	600...690		363RU5W	2CMA167382R1000		
		Red	380...415		363RU6W	2CMA167384R1000		
		Black	480...500		363RU7W	2CMA167386R1000		
		Blue	200...250		363RU9W	2CMA167388R1000		
		Red	440...460	60	363RU11W	2CMA167390R1000		
3P+N+E								
5		Grey		AC	463RU1W	2CMA167404R1000	1	0.76
		Green	> 50 V~	>300...500	463RU2W	2CMA168182R1000		
		Yellow	100...130	50 and 60	463RU4W	2CMA167394R1000		
		Black	600...690		463RU5W	2CMA126676R1000		
		Red	346...415		463RU6W	2CMA167396R1000		
		Black	480...500		463RU7W	2CMA167398R1000		
		Blue	208...250		463RU9W	2CMA167400R1000		
		Red	440...460	60	463RU11W	2CMA167402R1000		



Dimensions (mm)

Type	C	C1	D	D2	E	E1	H
263RU..W...463RU...W	61	61	70	104	89	48	111

Panel mounted socket outlets

Unified straight flange

TOUGH & SAFE



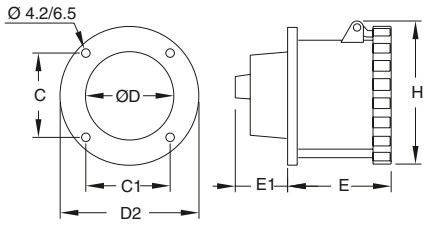
4125RU6W

125 A, IP67 Watertight

Plastic enclosure (PBT). LP types with long phase sleeves and pilot contact. Cable area 16-70 mm².

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	2125RU1W	2CMA167134R1000	1	0.85
		Yellow	100...130	50 and 60	2125RU4W	2CMA167132R1000		
		Blue	200...250		2125RU6W	2CMA167133R1000		
		Blue	200...250		2125RU6W LP	2CMA192729R1000		
3P+E								
4		Grey		AC	3125RU1W	2CMA167140R1000	1	1.00
		Yellow	100...130	50 and 60	3125RU4W	2CMA167135R1000		
		Black	600...690		3125RU5W	2CMA126718R1000		
		Red	380...415		3125RU6W	2CMA167136R1000		
		Red	380...415		3125RU6W LP	2CMA192730R1000		
		Black	480...500		3125RU7W	2CMA167137R1000		
		Black	480...500		3125RU7W LP	2CMA101865R1000		
		Blue	200...250		3125RU9W	2CMA167138R1000		
		Blue	200...250		3125RU9W LP	2CMA101866R1000		
		Red	440...460	60	3125RU11W	2CMA167139R1000		
		Red	440...460		3125RU11W LP	2CMA101867R1000		
3P+N+E								
5		Grey		AC	4125RU1W	2CMA167146R1000	1	1.14
		Yellow	100...130	50 and 60	4125RU4W	2CMA167141R1000		
		Red	346...415		4125RU6W	2CMA167142R1000		
		Red	346...415		4125RU6W LP	2CMA169213R1000		
		Black	480...500		4125RU7W	2CMA167143R1000		
		Blue	208...250		4125RU9W	2CMA167144R1000		
		Red	440...460	60	4125RU11W	2CMA167145R1000		

- Delivered with flange gasket.



Dimensions (mm)

Type	C	C1	D	D2	E	E1	H
2125RU...W...4125RU..W	71	71	88	115	100	58	122

Panel mounted socket outlets

Unified straight flange

TOUGH & SAFE



3125RF6W LP

125 A, IP67 Watertight

Thermoplastic enclosure (PBT). Screw calmps. Cable area 16-70 mm². With pilot contact.

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Blue	200...250	50 and 60	2125RF6W LP	2CMA101881R1000	1	1.2
3P+E								
4		Grey		AC	3125RF1W LP	2CMA101874R1000	1	1.23
		Yellow	100...130	50 and 60	3125RF4W LP	2CMA101875R1000		
		Black	600...690		3125RF5W LP	2CMA101876R1000		
		Red	380...415		3125RF6W LP	2CMA101877R1000		
		Black	480...500		3125RF7W LP	2CMA101878R1000		
		Blue	200...250		3125RF9W LP	2CMA101879R1000		
		Red	440...460	60	3125RF11W LP	2CMA101880R1000		
3P+N+E								
5		Green	> 50 V~	>300...500	4125RF2W LP	2CMA101871R1000	1	1.3
		Red	200/346... 240/415	50 and 60	4125RF6W LP	2CMA101870R1000		
		Blue	120/208... 144/250		4125RF9W LP	2CMA101872R1000		
		Red	250/440... 265/460	60	4125RF11W LP	2CMA101873R1000		

These products are equipped with pilot contacts. In all products with pilot contacts according to IEC 60 309-1 and -2, the pilot pin and
sleeve are shorter than the other connecting pins and sleeves.

This means that the "pilot circuit" breaks before and connects after the main circuit giving optimum safety. The maximum connection area is 4 mm².

Panel mounted socket outlets

Unified angled flange

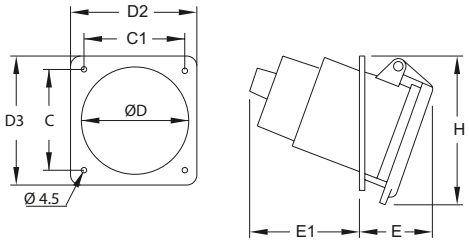
TOUGH & SAFE



463RAU6

63 A, IP44 Splashproof
Plastic enclosure (PBT). Cable area 6-25 mm². With pilot contact.

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	263RAU1	2CMA167412R1000	1	0.60
		Yellow	100...130	50 and 60	263RAU4	2CMA167406R1000		
		Blue	200...250		263RAU6	2CMA167408R1000		
3P+E								
4		Grey		AC	363RAU1	2CMA167426R1000	1	0.63
		Black	600...690	50 and 60	363RAU5	2CMA167416R1000		
		Red	380...415		363RAU6	2CMA167418R1000		
		Black	480...500		363RAU7	2CMA167420R1000		
		Blue	200...250		363RAU9	2CMA167422R1000		
3P+N+E								
5		Grey		AC	463RAU1	2CMA167438R1000	1	0.69
		Black	600...690	50 and 60	463RAU5	2CMA126680R1000		
		Red	346...415		463RAU6	2CMA167430R1000		
		Blue	200...250		463RAU9	2CMA101700R1000		



Dimensions (mm)

Type	C	C1	D	D2	D3	E	E1	H
263-463RAU..	84	80	92	100	104	62	73	111

Panel mounted socket outlets

Unified angled flange

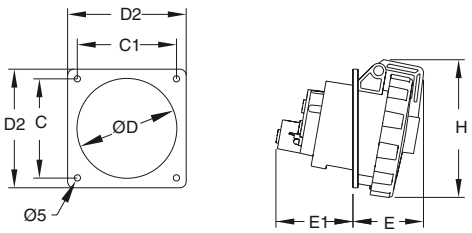
TOUGH & SAFE



216RAU6W

16 A, IP67 Watertight
Plastic enclosure (PBT). Cable area 1.5-4 mm².

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	216RAU1W	2CMA167002R1000	1	0.12
		Yellow	100...130	50 and 60	216RAU4W	2CMA166994R1000		
		Blue	200...250		216RAU6W	2CMA166996R1000		
		Red	380...415		216RAU9W	2CMA166998R1000		
		Grey	transf		216RAU12W	2CMA167000R1000		
3P+E								
4		Grey		AC	316RAU1W	2CMA167022R1000	1	0.15
		Green	> 50 V~	>300...500	316RAU2W	2CMA167004R1000		
		Red	380/440	50/60	316RAU3W	2CMA167006R1000		
		Yellow	100...130	50 and 60	316RAU4W	2CMA167008R1000		
		Black	600...690		316RAU5W	2CMA167010R1000		
		Red	380...415		316RAU6W	2CMA167012R1000		
		Black	480...500		316RAU7W	2CMA167014R1000		
		Blue	200...250		316RAU9W	2CMA167016R1000		
		Green	> 50 V~	100...300	316RAU10W	2CMA167018R1000		
		Red	440...460	60	316RAU11W	2CMA167020R1000		
3P+N+E								
5		Grey		AC	416RAU1W	2CMA167038R1000	1	0.18
		Green	> 50 V~	>300...500	416RAU2W	2CMA167024R1000		
		Red	380/440	50/60	416RAU3W	2CMA167026R1000		
		Yellow	100...130	50 and 60	416RAU4W	2CMA167028R1000		
		Black	600...690		416RAU5W	2CMA126681R1000		
		Red	346...415		416RAU6W	2CMA167030R1000		
		Black	480...500		416RAU7W	2CMA167032R1000		
		Blue	208...250		416RAU9W	2CMA167034R1000		
		Red	440...460	60	416RAU11W	2CMA167036R1000		



Dimensions (mm)

Type	C	C1	D	D2	E	E1	H
216RAU..W	79.5	79.5	83	95	45	57	95
316RAU..W	79.5	79.5	83	95	45	57	95
416RAU..W	79.5	79.5	83	95	47	57	99

Panel mounted socket outlets

Unified angled flange

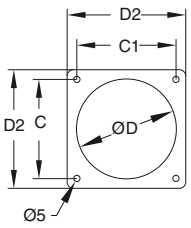
TOUGH & SAFE

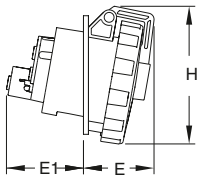


432RAU6W

32 A, IP67 Watertight
Plastic enclosure (PBT). Cable area 2.5-10 mm².

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	232RAU1W	2CMA166954R1000	1	0.19
		Yellow	100...130	50 and 60	232RAU4W	2CMA166946R1000		
		Blue	200...250		232RAU6W	2CMA166948R1000		
		Red	380...415		232RAU9W	2CMA166950R1000		
		Grey	transf		232RAU12W	2CMA166952R1000		
3P+E								
4		Grey		AC	332RAU1W	2CMA166974R1000	1	0.21
		Green	> 50 V~	>300...500	332RAU2W	2CMA166956R1000		
		Red	380/440	50/60	332RAU3W	2CMA166958R1000		
		Yellow	100...130	50 and 60	332RAU4W	2CMA166960R1000		
		Black	600...690		332RAU5W	2CMA166962R1000		
		Red	380...415		332RAU6W	2CMA166964R1000		
		Black	480...500		332RAU7W	2CMA166966R1000		
		Blue	200...250		332RAU9W	2CMA166968R1000		
		Green	> 50 V~	100...300	332RAU10W	2CMA166970R1000		
		Red	440...460	60	332RAU11W	2CMA166972R1000		
3P+N+E								
5		Grey		AC	432RAU1W	2CMA166990R1000	1	0.26
		Green	> 50 V~	>300...500	432RAU2W	2CMA166976R1000		
		Red	380/440	50/60	432RAU3W	2CMA166978R1000		
		Yellow	100...130	50 and 60	432RAU4W	2CMA166980R1000		
		Black	600...690		432RAU5W	2CMA126682R1000		
		Red	346...415		432RAU6W	2CMA166982R1000		
		Black	480...500		432RAU7W	2CMA166984R1000		
		Blue	208...250		432RAU9W	2CMA166986R1000		
		Red	440...460	60	432RAU11W	2CMA166988R1000		





Dimensions (mm)

Type	C	C1	D	D2	E	E1	H
232RAU..W	79.5	79.5	83	95	56	61	104
332RAU..W	79.5	79.5	83	95	56	61	104
432RAU..W	79.5	79.5	83	95	56	62	111

Panel mounted socket outlets

Unified angled flange

TOUGH & SAFE



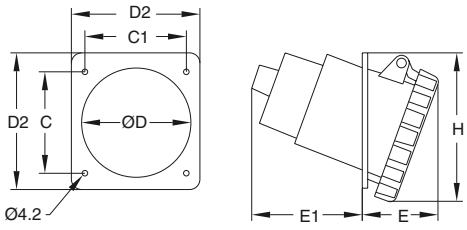
463RAU6W

63 A, IP67 Watertight

Plastic enclosure (PBT). Cable area 6-25 mm². With pilot contact.

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2P+E							
3	Grey		AC	263RAU1W	2CMA167446R1000	1	0.60
	Yellow	100...130	50 and 60	263RAU4W	2CMA167440R1000		
	Blue	200...250		263RAU6W	2CMA167442R1000		
	Red	380...415		263RAU9W	2CMA167444R1000		
3P+E							
4	Grey		AC	363RAU1W	2CMA167460R1000	1	0.63
	Yellow	100...130	50 and 60	363RAU4W	2CMA167448R1000		
	Black	600...690		363RAU5W	2CMA167450R1000		
	Red	380...415		363RAU6W	2CMA167452R1000		
	Black	480...500		363RAU7W	2CMA167454R1000		
	Blue	200...250		363RAU9W	2CMA167456R1000		
	Red	440...460	60	363RAU11W	2CMA167458R1000		
3P+N+E							
5	Grey		AC	463RAU1W	2CMA167472R1000	1	0.69
	Yellow	100...130	50 and 60	463RAU4W	2CMA167462R1000		
	Black	600...690		463RAU5W	2CMA126683R1000		
	Red	346...415		463RAU6W	2CMA167464R1000		
	Black	480...500		463RAU7W	2CMA167466R1000		
	Blue	208...250		463RAU9W	2CMA167468R1000		
	Red	440...460	60	463RAU11W	2CMA167470R1000		

- Delivered with flange gasket.



Dimensions (mm)

Type	C	C1	D	D2	E	E1	H
263-463RAU..W	84	80	92	104	61	71	115

Panel mounted socket inlets

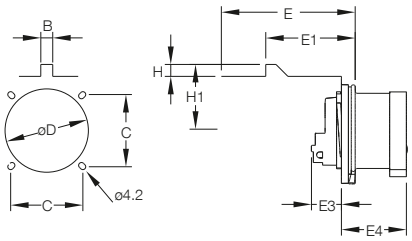
Straight flange



463BU6

63 A, IP44 Splashproof
Plastic enclosure (PBT). Cable area 6-25 mm².

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	263BU1	2CMA167216R1000	**1**	**0.50**
		Blue	200...250	50 and 60	263BU6	2CMA167212R1000		
3P+E								
4		Grey		AC	363BU1	2CMA167230R1000	1	0.55
		Black	600...690	50 and 60	363BU5	2CMA167220R1000		
		Red	380...415		363BU6	2CMA167222R1000		
		Blue	200...250		363BU9	2CMA167226R1000		
3P+N+E								
5		Grey		AC	463BU1	2CMA167242R1000	1	0.60
		Red	346...415	50 and 60	463BU6	2CMA167234R1000		



Dimensions (mm)

Type	B	C	D	E	E1	E3	E4	H	H1
263-463BU..	11	61	70	105	62.0	50.0	78.0	9	49.5

Panel mounted socket inlets

Straight flange

TOUGH & SAFE

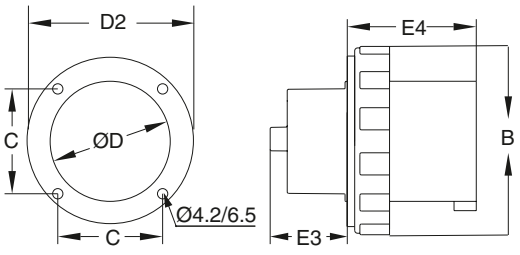


263BU6W

63 A, IP67 Watertight
Plastic enclosure (PBT). Cable area 6-25 mm².

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	263BU1W	2CMA168106R1000	1	0.50
		Yellow	100...130	50 and 60	263BU4W	2CMA168103R1000		
		Blue	200...250		263BU6W	2CMA168104R1000		
		Red	380...415		263BU9W	2CMA168105R1000		
3P+E								
4		Grey		AC	363BU1W	2CMA168113R1000	1	0.55
		Yellow	100...130	50 and 60	363BU4W	2CMA168107R1000		
		Black	600...690		363BU5W	2CMA168108R1000		
		Red	380...415		363BU6W	2CMA168109R1000		
		Black	480...500		363BU7W	2CMA168110R1000		
		Blue	200...250		363BU9W	2CMA168111R1000		
		Red	440...460	60	363BU11W	2CMA168112R1000		
3P+N+E								
5		Grey		AC	463BU1W	2CMA168119R1000	1	0.60
		Green	> 50 V~	>300...500	463BU2W	2CMA168180R1000		
		Yellow	100...130	50 and 60	463BU4W	2CMA168114R1000		
		Black	600...690		463BU5W	2CMA100859R1000		
		Red	346...415		463BU6W	2CMA168115R1000		
		Black	480...500		463BU7W	2CMA168116R1000		
		Blue	208...250		463BU9W	2CMA168117R1000		
		Red	440...460	60	463BU11W	2CMA168118R1000		

- Delivered with flange gasket.



Dimensions (mm)

Type	B	C	D	D2	E3	E4
263-463BU..W	112	61	70	98	50	80

Panel mounted socket inlets

Straight flange

TOUGH & SAFE

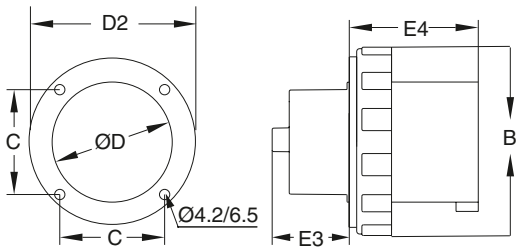


4125BU6W

125 A, IP67 Watertight
Plastic enclosure (PBT). Cable area 16-70 mm².

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	2125BU1W	2CMA167196R1000	1	0.78
		Yellow	100...130	50 and 60	2125BU4W	2CMA167194R1000		
		Blue	200...250		2125BU6W	2CMA167195R1000		
3P+E								
4		Grey		AC	3125BU1W	2CMA167202R1000	1	0.84
		Yellow	100...130	50 and 60	3125BU4W	2CMA167197R1000		
		Black	600...690		3125BU5W	2CMA126719R1000		
		Red	380...415		3125BU6W	2CMA167198R1000		
		Black	480...500		3125BU7W	2CMA167199R1000		
		Blue	200...250		3125BU9W	2CMA167200R1000		
		Red	440...460	60	3125BU11W	2CMA167201R1000		
3P+N+E								
5		Grey		AC	4125BU1W	2CMA167208R1000	1	0.96
		Yellow	100...130	50 and 60	4125BU4W	2CMA167203R1000		
		Red	380...415		4125BU6W	2CMA167204R1000		
		Black	480...500		4125BU7W	2CMA167205R1000		
		Blue	208...250		4125BU9W	2CMA167206R1000		
		Red	440...460	60	4125BU11W	2CMA167207R1000		

- Delivered with flange gasket.



Dimensions (mm)

Type	B	C	D	D2	E3	E4
2125-4125BU..W	122	71	81	118	56	89

Panel mounted socket inlets

Angled flange

TOUGH & SAFE

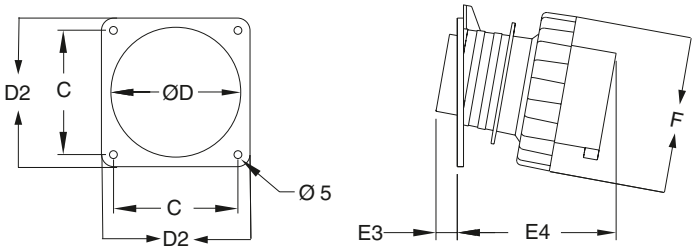


216BAU6W

16 A, IP67 Watertight
Plastic enclosure (PBT). Cable area 1.5-4 mm².

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	216BAU1W	2CMA166684R1000	1	0.14
		Grey	>50...250	DC	216BAU3W	2CMA166674R1000		
		Yellow	100...130	50 and 60	216BAU4W	2CMA166676R1000		
		Blue	200...250		216BAU6W	2CMA166678R1000		
		Red	380...415		216BAU9W	2CMA166680R1000		
		Grey	transf		216BAU12W	2CMA166682R1000		
3P+E								
4		Grey		AC	316BAU1W	2CMA166704R1000	1	0.19
		Green	> 50 V~	>300...500	316BAU2W	2CMA166686R1000		
		Red	380/440	50/60	316BAU3W	2CMA166688R1000		
		Yellow	100...130	50 and 60	316BAU4W	2CMA166690R1000		
		Black	600...690		316BAU5W	2CMA166692R1000		
		Red	380...415		316BAU6W	2CMA166694R1000		
		Black	480...500		316BAU7W	2CMA166696R1000		
		Blue	200...250		316BAU9W	2CMA166698R1000		
		Green	> 50 V~	100...300	316BAU10W	2CMA166700R1000		
		Red	440...460	60	316BAU11W	2CMA166702R1000		
3P+N+E								
5		Grey		AC	416BAU1W	2CMA166720R1000	1	0.21
		Green	> 50 V~	>300...500	416BAU2W	2CMA166706R1000		
		Red	380/440	50/60	416BAU3W	2CMA166708R1000		
		Yellow	100...130	50 and 60	416BAU4W	2CMA166710R1000		
		Red	346...415		416BAU6W	2CMA166712R1000		
		Black	480...500		416BAU7W	2CMA166714R1000		
		Blue	208...250		416BAU9W	2CMA166716R1000		
		Red	440...460	60	416BAU11W	2CMA166718R1000		

- Delivered with flange gasket.



Dimensions (mm)

Type	C	D	D2	E3	E4	F
216BAU..W	79.5	83	95	10	47	71
316BAU..W	79.5	83	95	10	53	79
416BAU..W	79.5	83	95	10	87	87

Panel mounted socket inlets

Angled flange

TOUGH & SAFE

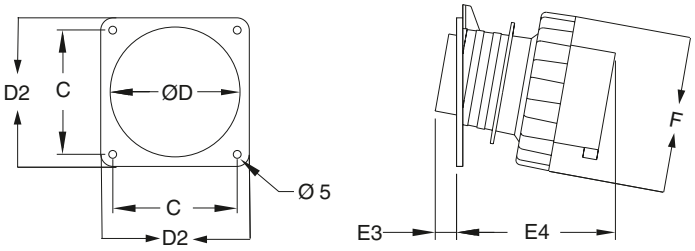


432BAU6W

32 A, IP67 Watertight
Plastic enclosure (PBT). Cable area 2.5-10 mm².

Terminals/ Poles	Color code		Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
			V	Hz				kg
2P+E								
3		Grey		AC	232BAU1W	2CMA166636R1000	1	0.22
		Yellow	100...130	50 and 60	232BAU4W	2CMA166628R1000		
		Blue	200...250		232BAU6W	2CMA166630R1000		
		Red	380...415		232BAU9W	2CMA166632R1000		
		Grey	transf		232BAU12W	2CMA166634R1000		
3P+E								
4		Grey		AC	332BAU1W	2CMA166656R1000	1	0.84
		Green	> 50 V~	>300...500	332BAU2W	2CMA166638R1000		
		Red	380/440	50/60	332BAU3W	2CMA166640R1000		
		Yellow	100...130	50 and 60	332BAU4W	2CMA166642R1000		
		Black	600...690		332BAU5W	2CMA166644R1000		
		Red	380...415		332BAU6W	2CMA166646R1000		
		Black	480...500		332BAU7W	2CMA166648R1000		
		Blue	200...250		332BAU9W	2CMA166650R1000		
		Green	> 50 V~	100...300	332BAU10W	2CMA166652R1000		
		Red	440...460	60	332BAU11W	2CMA166654R1000		
3P+N+E								
5		Grey		AC	432BAU1W	2CMA166672R1000	1	0.96
		Green	> 50 V~	>300...500	432BAU2W	2CMA166658R1000		
		Red	380/440	50/60	432BAU3W	2CMA166660R1000		
		Yellow	100...130	50 and 60	432BAU4W	2CMA166662R1000		
		Red	346...415		432BAU6W	2CMA166664R1000		
		Black	480...500		432BAU7W	2CMA166666R1000		
		Blue	208...250		432BAU9W	2CMA166668R1000		
		Red	440...460	60	432BAU11W	2CMA166670R1000		

- Delivered with flange gasket.



Dimensions (mm)

Type	C	D	D2	E3	E4	F
232BAU..W	79.5	83	95	12	60	94
332BAU..W	79.5	83	95	12	60	94
432BAU..W	79.5	83	95	12	67	101

Industrial plugs and sockets

Accessories



Plug blocker

Lockout/tagout for plugs and inlets. Can be used for any IEC 60309-1 and 60309-2 plug or inlet, both IP44 and IP67 products.

To fit	Order details		Pack qty
	Type code	Order code	pc.
Plugs 16 – 125A Panel mounted inlets 16 – 125 Surface mounted inlets 16 – 125 A	CLF 16 – 125 *	2CMA179237R1000	1

*Indicates standard product.



Protective cover 16 – 125 A, IP44/67

Material in EPDM Rubber

For inlet and plug	Order details		Pack qty
	Type code	Order code	pc.
16 A, 2P+E	GP216 *	2CMA164993R1000	1
16 A, 3P+E	GP316 *	2CMA164994R1000	1
16 A, 3P+N+E	GP416 *	2CMA164995R1000	1
32 A, 2P+E and 3P+E	GP232/332 *	2CMA164996R1000	1
32A, 3P+N+E	GP432 *	2CMA164997R1000	1
63 A, 2P+E, 3P+E and 3P+N+E	GP63 *	2CMA164998R1000	1
125 A, 2P+E, 3P+E and 3P+N+E	GP125 *	2CMA164999R1000	1

*Indicates standard product.



Padlock unit

Padlock unit suitable for all plugs and sockets with handle. Shackle for up to 6 padlocks.

	Order details		Pack qty
	Type code	Order code	pc.
Plugs and sockets with handle	L6	2CMA144539R1000	10

*Indicates standard product.



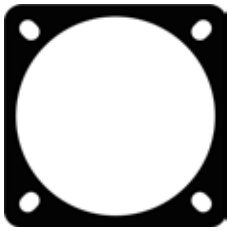
Blanking plug for 16 – 32 A, IP44

Material in Polyethylene

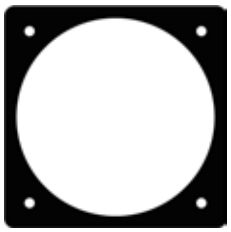
Metric M20 and M25

For wall mounted sockets	Order details		Pack qty
	Type code	Order code	pc.
For 16A RS and BS	Blanking plug M20X1,5 grey	2CMA197686R1000	1
For 32A RS and BS For 16-32A MHS, MM and CUE	Blanking plug M25X1,5 grey	2CMA197687R1000	1

Industrial plugs and sockets
Spare parts



Gasket BR3416



Gasket RAU1632

Gasket 16 – 125 A, IP44
Material in Chloroprene and Polyethylene
Adhesive

Suitable for Type, Amp, terminals	Order details		Pack qty
	Type code	Order code	pc.
RAM 16 A, 2P+E	Gasket RM216*	2CMA170049R1000	1
RAM 16 A, 2P+E and 3P+E	Gasket RM3416*	2CMA170050R1000	1
RAM 32 A, 2P+E, 3P+E, 3P+N+E	Gasket RM32*	2CMA170051R1000	1
RAM 63 A, 2P+E, 3P+E, 3P+N+E	Gasket 63A*	2CMA178036R1000	1
RAM 125 A, 2P+E, 3P+E, 3P+N+E, for flange	Gasket RMF 125A*	2CMA178203R1000	1
RAM 125 A, 2P+E, 3P+E, 3P+N+E, for socket	Gasket RMS 125A*	2CMA178207R1000	1
R/B 16 A, 2P+E	Gasket BR216	2CMA193458R1000	1
R/B 16 A, 3P+E, 3P+N+E	Gasket BR3416	2CMA193459R1000	1
RU/BU 16-32 A, 2P+E, 3P+E, 3P+N+E	Gasket BRU1632	2CMA193460R1000	1
RAU 16 A, 2P+E	Gasket RA216	2CMA193461R1000	1
RAU 16-32 A, 2P+E, 3P+E, 3P+N+E	Gasket RAU1632	2CMA193463R1000	1

* Indicates made of Chloroprene

Modular Combi
Plastic

The enclosure is in plastic. Modul Combi Plastic is designed for different types of single phase domestic outlets and for IEC outlets up to and including 63 A.

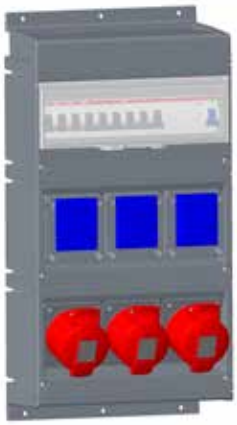
Operating voltage 230/400 V ~

Enclosure:	Plastic (PBT Thermoplastic)
Dimensions:	According to table
Outlets:	Combi Plastic is designed for different types of single phase domestic outlets and for IEC outlets up to and including 63 A. With or without mechanical interlocked IEC outlets.
Cable entry:	4 knock-outs at the top, suitable for 2xØ 40 mm and 2xØ 25 mm At the bottom 3xØ 47 mm
Cable area:	2x16 mm^2 Cu. Designed for looping
Covers:	For MCB/RCD, maximum 13 modules, 2 opened and knock-outs for the rest of the modules row. DIN-rail in bottom for terminals and MCB/RCDs. With a distance at the bottom to allow wiring behind the rail. The lid is pad lockable.



Modular Combi

Plastic 16 A



MPR16/3

IP44, Splashproof

MCB	RCD	Switch	Schuko outlet	Outlet	Type	Order Code	Size			Weight pkg (1pce)
			10/16 A	IEC			W	H	D	kg
1xS203 M C16	25 A/0.03	-	2 single	1x416	MPR16	2CMA168997R1000	250	300	160	3.1
3xS201 C16 2xS203 M C16	40 A/0.03	-	3 single	3x416	MPR16/3	2CMA168995R1000	250	430	160	3.4
1xS203 M C16	25 A/0.03	-	2 single	1x416	MPR16B *	2CMA101631R1000	250	300	160	3.1
1xS203 M C16	25 A/0.03	-	2 single	1x416	MPR16 BS Grey **	2CMA101651R1000	250	300	160	3.1
1xS203 M C16	25 A/0.03	-	2 single	1x416	MPR16B BS Black **	2CMA101655R1000	250	300	160	3.1

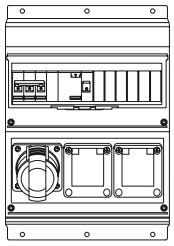
* Black enclosure
** Domesti outlet with British standard

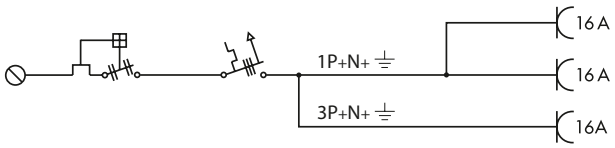
Modular Combi

Plastic 16 A

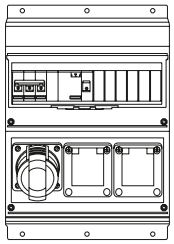
Front view **Wiring diagram**

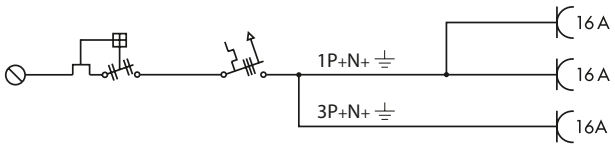
MPR16



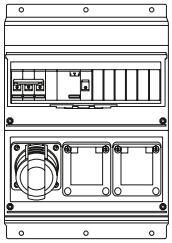


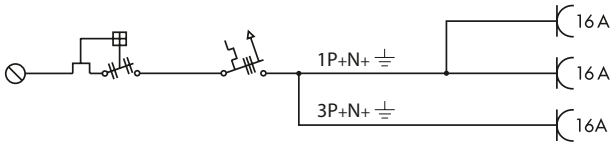
MPR16B



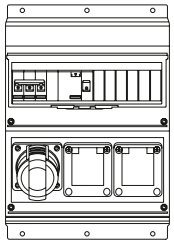


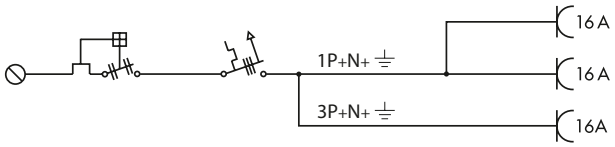
MPR16 BS Grey



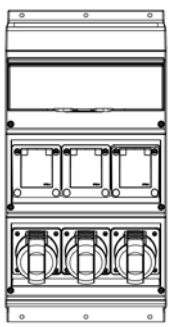


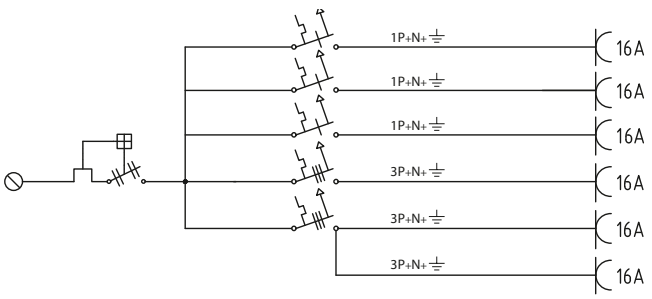
MPR16B BS Black





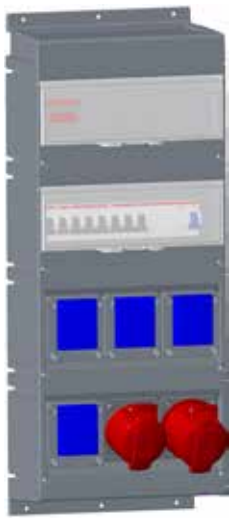
MPR16/3





Modular Combi

Plastic 32 A



MPR32/1MS

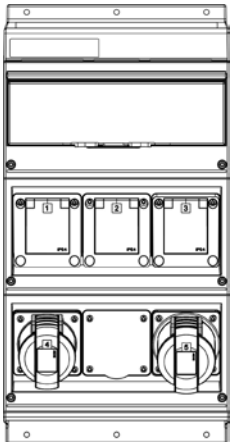
IP44, Splashproof

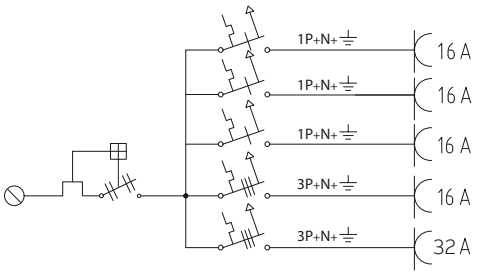
MCB	RCD	Switch	Schuko outlet	Outlet	Type	Order Code	Size			Weight pkg (1pce)
			10/16 A	IEC			W	H	D	kg
3xS201 C16 1xMCB S203-C16 1xMCB S203-C32	63 A/0.03	-	3 single	1x416 1x432	MPR32/1	2CMA106211R1000	250	430	160	4.3
2xMCB S201-C16 1xMCB S203-C16 1xMCB S203-C32	63 A/0.03	OT80F3/B	4 single	1x416 1x432	MPR32/1MS	2CMA168984R1000	250	560	160	4.8

Front view

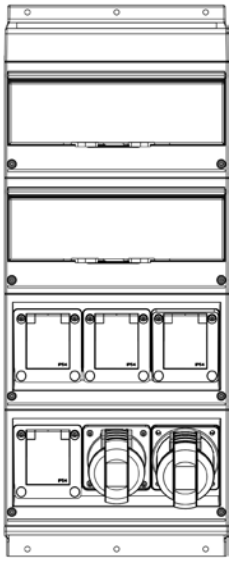
Wiring diagram

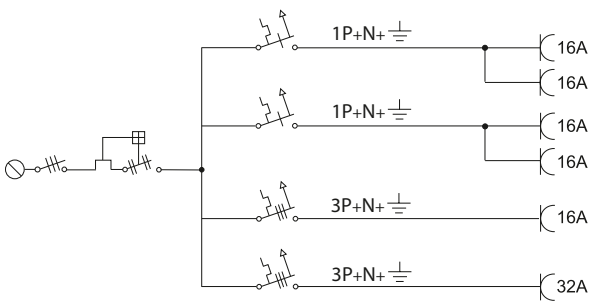
MPR32/1



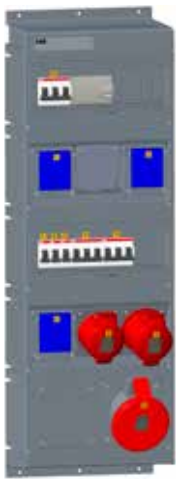


MPR32/1MS





Modular Combi
Plastic

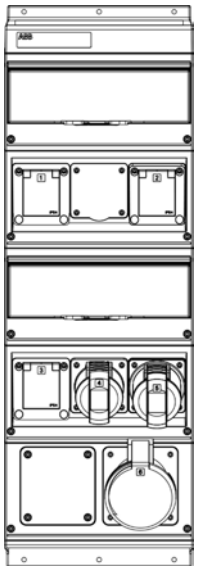


MPR63PRO

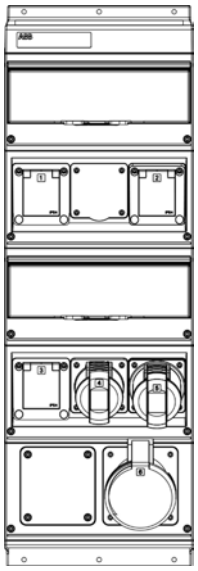
IP44, Splashproof
Housing in plastic (PBT)

MCB	RCD	Switch	Schuko outlet	Outlet	Type	Order Code	Size			Weight pkg (1pce)
			10/16 A	IEC			W	H	D	kg
3xS201-C16 1xS203-C16 1xS203-C32 1xS203-C63	40 A/0.03		3 single	1x416 1x432 1x463	MPR63PRO	2CMA101808R1000	250	750	165	4.0
3xS201-C16 1xS203-C16 1xS203-C32 1xS203-C63	63 A/0.03		3 single	1x416 1x432 1x463	MPR63/ 1PRO	2CMA101809R1000	250	750	165	5.4
3xS201-C16 1xS203-C16 1xS203-C32 1xS203-C63	63 A/0.03	OT80F3	3 single	1x416 1x432 1x463	MPR63/ 1MSPRO	2CMA101810R1000	250	750	165	5.7

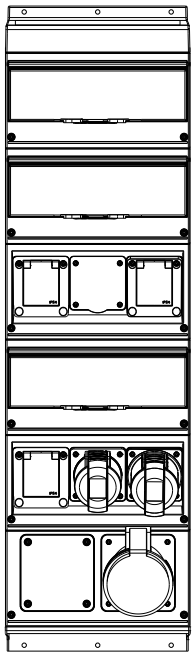
Front view



MPR63PRO

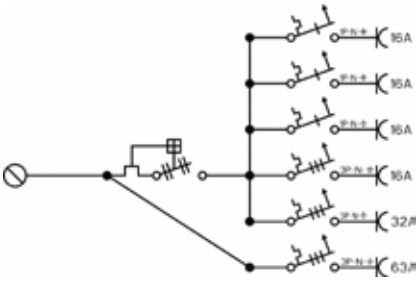


MPR63/1PRO

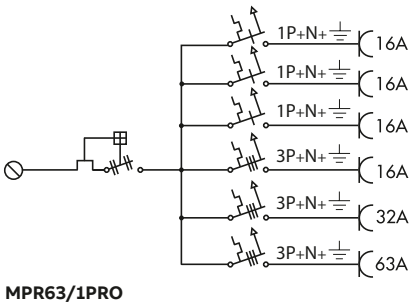


MPR63/1MSPRO

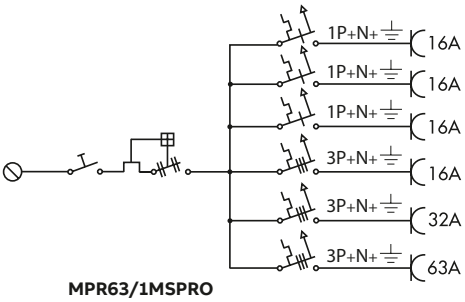
Wiring diagrams



MPR63PRO



MPR63/1PRO



MPR63/1MSPRO

Modular Combi
Metal

The enclosure is in aluminium with front plates of galvanised steel. Modul Combi Metal is designed for different types of single phase domestic outlets and for IEC outlets up to and including 63 A.

Operating voltage 230/400 V~

Enclosure:	Aluminium with front plates of galvanised steel.
Dimensions:	According to table or customer order
Outlets:	Combi Metal is designed for different types of single phase domestic outlets and for IEC outlets up to and including 63 A. With or without mechanical interlocked IEC outlets.
Cable entry:	FL21 flange openings at top and bottom
Cable area:	2x16 mm^2 Cu. Designed for looping
Covers:	For MCB/RCD, maximum 12 modules. DIN-rail in bottom for terminals and MCB/RCDs. With a distance at the bottom to allow wiring behind the rail. The lid is pad lockable.



Modular Combi

Metal



M63/2 JFB CTFL

IP44, Splashproof
Housing in Aluminium with front plates of galvanised steel

Cable entry Alt 1: FL21 flange openings at top and bottom
Cable entry Alt 2: Covered top and rubber multi gland down (CTFL)

MCB	RCD	Switch	Schuko outlet	Outlet	Type	Order Code	Size			Weight pkg (1pce)
			10/16 A	IEC			W	H	D	kg
2xS201-C10 1xS203-C16	25 A/0.03		2 single	1x416	M16/2 JFB	2CMA179349R1000	250	314	172	4.55
2xS201-C10 1xS203-C16	25 A/0.03		2 single	1x416	M16/2 JFB CTFL	2CMA100020R1000	250	314	172	4.55
4xS201-C10 1xS203-C16 1xS203-C32	63 A/0.03		4 single	1x416 1x432	M32/2 JFB	2CMA179351R1000	250	574	179	7.35
4xS201-C10 1xS203-C16 1xS203-C32	63 A/0.03		4 single	1x416 1x432	M32/2 JFB CTFL	2CMA100022R1000	250	574	179	7.35
3xS201-C10 1xS203-C16 1xS203-C32 1xS203-C63	63 A/0.03		4 single	1x416 1x432 1x463	M63/2 JFB CTFL	2CMA100024R1000	250	704	188	9.55
3xS201-C10 1xS203-C16 1xS203-C32 1xS203-C63	63 A/0.03		4 single	1x416 1x432 1x463	M63/2 JFB	2CMA179353R1000	250	704	188	9.55

CTFL = Covered top and FL21 with multiflange down

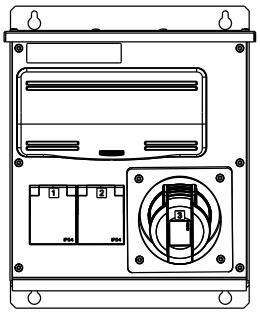
Modular Combi

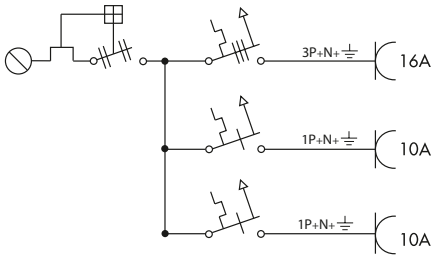
Metal

Front view

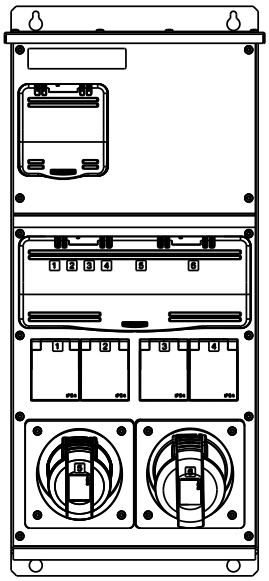
Wiring diagram

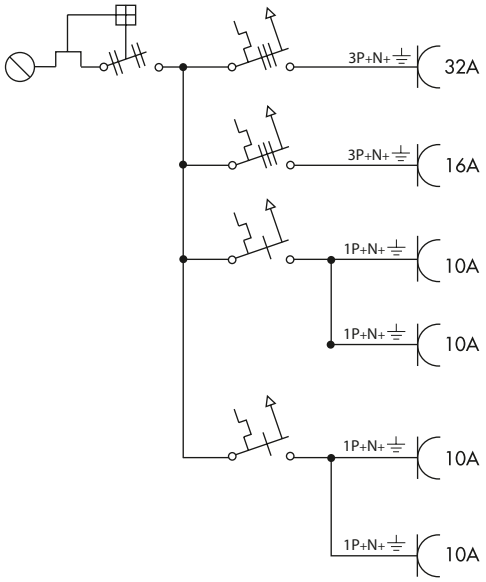
M16/2JFB
M16/2 JFB CTFL



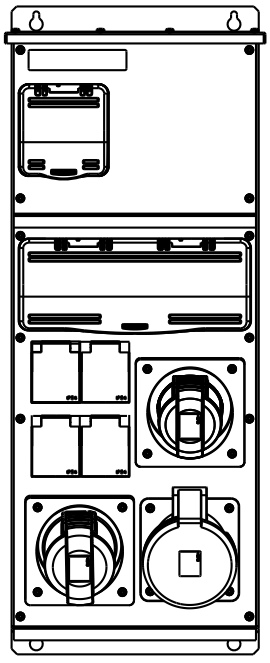


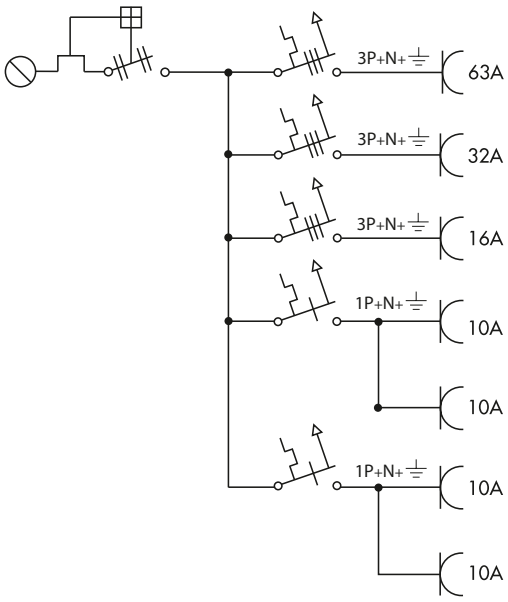
M32/2JFB
M32/2 JFB CTFL





M63/2JFB
M63/2 JFB CTFL





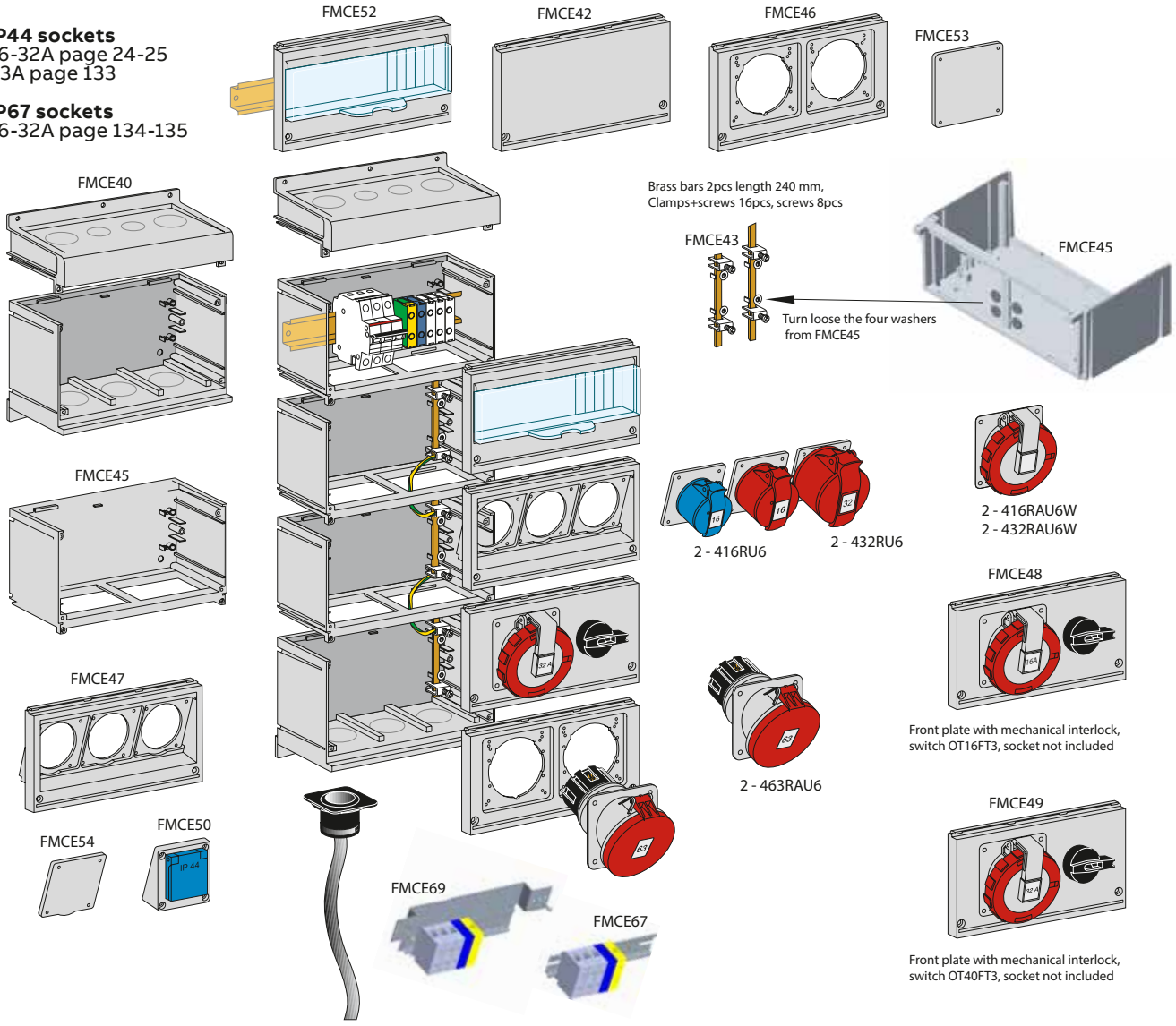
Modular Combi
Parts

Here you can design your installation solution in IP44

Modular combi parts are Easy to assemble and install. It is a flexible and time efficient choice for special applications. Modular combi parts can be assembled to a height of 2 meters and there is a possibility to build on the width by looping if required. Din rail are suitable for 13 modules with a lot of space for your socket outlets protection. There are a large number of socket outlets to choose from our Easy & Safe and Tough & Safe Range depending on which IP degree and material that is required. There is also a possibility to have switched interlocked socket outlet to maximize personal safety. Assembled enclosure is tested and fulfills IP44 protection degree and can handle Socket outlets up to 63A. Enclosure parts in plastic PBT.

IP44 sockets
16-32A page 24-25
63A page 133

IP67 sockets
16-32A page 134-135



Modular Combi parts

Top, bottom and middle section. Front and cover plates, cable flange and N/E terminal



Top section FMCE40



Bottom section FMCE40



FMCE45



FMCE47



FMCE46



FMCE52



FMCE50



FMCE41



FMCE54



FMCE53



FMCE42



FMCE43

Parts in plastic (PBT)

Description	Type	Order Code	Pkg qty	Weight pkg (1pce) kg
Top and bottom section				
Top (2x40 mm and 2x25 mm) and bottom (3x47 mm) section incl. screws. Suitable for MP..., MPR...	FMCE40	2CMA191077R1000	1 pce	0.2kg
Middle section				
Middle section incl. screws. Suitable for MP..., MPR...	FMCE45	2CMA191082R1000	1 pce	0.25kg
Front plate for 16-32 A outlet				
Front plate suitable for three 16-32 A outlets incl. screws. Suitable for RU and FMCE50	FMCE47	2CMA191084R1000	1 pce	0.5kg
Front plate for 63 A outlet				
Front plate suitable for two 63 A outlets incl. screws	FMCE46	2CMA191083R1000	1 pce	0.5kg
Front plate with mechanical interlock				
Front plate with mechanical interlock, switch OT16FT3, socket not included	FMCE48	2CMA191085R1000	1 pce	0.5kg
Front plate with mechanical interlock				
Front plate with mechanical interlock, switch OT40FT3, socket not included	FMCE49	2CMA191086R1000	1 pce	0.5kg
Front plate with lid and DIN rail				
Front with lid and DIN rail L=241 mm	FMCE52	2CMA191089R1000	1 pce	0.1kg
Front plate with schuko				
Front plate with schuko outlet 10/16 A, incl. screws. Suitable for FMCE47	FMCE50	2CMA191087R1000	1 pce	0.2kg
Cover plate for 16-32 A				
Cover plate suitable for 16-32 A incl. screws	FMCE54	2CMA191091R1000	1 pce	0.1kg
Cover plate for 63 A				
Cover plate suitable for 63 A incl. screws	FMCE53	2CMA191090R1000	1 pce	0.1kg
Cover plate				
Cover plate incl. screws	FMCE42	2CMA191079R1000	1 pce	0.5kg
Cable flange				
Hose clamp, cable tightening, flange incl. screws	FMCE41	2CMA170188R1000	1 pce	0.25kg
N/E terminal				
N/E terminal 16 mm^2, brass bar = 240 mm	FMCE43	2CMA191080R1000	1 pce	0.19kg
DIN-Rail				
DIN-Rail L=241 mm + screws + 5x35 mm^2 terminal block	FMCE67	2CMA191103R1000	1 pce	0.3kg
Flange				
Flange for domestic socket, incl. screws	FMCE70	2CMA105989R1000	1 pce	0.2kg
DIN-Rail				
DIN-Rail L=241 mm, incl. screws	FMCE71	2CMA105990R1000	1 pce	0.1kg
DIN-Rail				
Lowered DIN-Rail, incl. screws	FMCE72	2CMA105991R1000	1 pce	0.3kg

Multi-pack Modular Combi

Top, bottom and middle section. Front and cover plates, cable flange and N/E terminal



Top section FMCE400



Bottom section FMCE400



FMCE420



FMCE430



FMCE450



FMCE460



FMCE470



FMCE500



FMCE54



FMCE53

Parts in plastic (PBT)

Description	Type	Order Code	Pkg qty
Top section knock outs **Bottom section knock outs**			
(2x Ø 40,5 mm and 2x Ø 25,5 mm) (2x Ø 40,5 mm and 1x Ø 47,5 mm) screws incl. and instruction	FMCE400	2CMA106004R1000	5
Hose clamp			
cable tightening, flange, C-nuts, screws incl.	FMCE410	2CMA106005R1000	10
Cover plate			
screws incl.	FMCE420	2CMA106006R1000	10
N/E terminals 16 mm²			
Brass bars 2pcs length 240 mm, Clamps 16pcs, screws 8pcs	FMCE430	2CMA106007R1000	10
Middle section			
screws incl.	FMCE450	2CMA106008R1000	10
Front plate			
suitable for two 63 A outlets screws incl.	FMCE460	2CMA106009R1000	10
Front plate			
suitable for three 16-32 A outlets screws incl.	FMCE470	2CMA106010R1000	10
Flange			
with Schuko outlet 10/16 A, screws incl.	FMCE500	2CMA106011R1000	10
Front			
with lid (13 DIN modules wide), DIN-rail, screws incl.	FMCE520	2CMA106012R1000	10
Cover flange 63			
screws incl.	FMCE530	2CMA106013R1000	10
Cover flange 16/32			
screws incl.	FMCE540	2CMA106014R1000	10
Flanges for Domestic socket			
screws incl.	FMCE700	2CMA106016R1000	10
DIN Rail 241 mm			
screws incl.	FMCE710	2CMA106017R1000	10
Lowered DIN-rail			
screws incl.	FMCE720	2CMA106015R1000	10
Screw STS T40*16 FZB Screw TS KN1039 Screw RTK 3,5X13 Screw STS T40x20, PT 30* DELG L=20 MM	FMCE730	2CMA106018R1000	4x100 pcs

Black Modular Combi

Top, bottom and middle section. Front and cover plates, cable flange and N/E terminal



Top section FMCE40B



Bottom section FMCE40B



FMCE42B



FMCE45B



FMCE47B



FMCE54B

Parts in plastic (PBT)

Description	Type	Order Code	Pkg qty
Top section knock outs **Bottom section knock outs**			
(2x Ø 40,5 mm and 2x Ø 25,5 mm) (2x Ø 40,5 mm and 1x Ø 47,5 mm) screws incl. and instruction	FMCE40B	2CMA105995R1000	Qty 1
Cover plate			
screws incl.	FMCE42B	2CMA105996R1000	Qty 1
Middle section			
screws incl.	FMCE45B	2CMA105997R1000	Qty 1
Front plate			
suitable for three 16-32 A outlets screws incl.	FMCE47B	2CMA105998R1000	Qty 1
Flange with Schuko outlet 10/16 A			
screws incl.	FMCE50B	2CMA105999R1000	Qty 1
Front with lid (13 DIN modules wide)			
DIN-rail, screws incl.	FMCE52B	2CMA106001R1000	Qty 1
Cover flange 16/32			
screws incl.	FMCE54B	2CMA106002R1000	Qty 1
Flanges for Domestic socket			
screws incl.	FMCE70B	2CMA106000R1000	Qty 1

Industrial plugs and sockets
Extra low voltage

Plugs



Type PLV...
16 A...32A, IP44



Type PLV...W
16A...32 A, IP67

Connectors



Type CLV...
16 A...32 A, IP44



Type CLV...W
16 A...32 A, IP67

Socket outlet



For panel mounting with straight flange, Type RLV...
16A...32 A, IP44



For surface mounting, Type BSLV...
16 A...32A, IP44

Inlets



For surface mounting, Type RSLV...
16 A...32 A, IP44



Industrial plugs and sockets
Extra low voltage

Our extra low voltage range offers Industrial plugs & sockets for protection in areas with a high risk like swimming pools, wandering-lead hand lamps, and other portable appliances for outdoor use. Therefore our range includes products of IP44 and IP67.

Our range of Industrial plugs and sockets for extra low voltage covers voltages up to 50V AC or DC and fulfills IEC 60309.

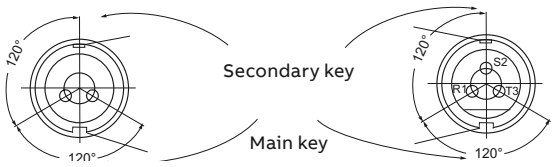
Extra low voltage is one way to protect from electrical shock. Extra-low voltage is used where the risks are high: swimming pools, wandering-lead hand lamps, and other portable appliances for outdoor use, etc.

The plugs and sockets are intended for an operating voltage not exceeding 50 V. Their rated voltage is 24 V and 50 V for 16 A and 32 A.

Standards
The products are designed according to the following standards: IEC 60 309-1, 60 309-2.

Connections
Screw type terminals.

Non-interchangeability
To achieve non-interchangeability, the plugs and sockets have a main key and a secondary key. The position of the secondary key is indicated by a number followed by a letter h (the hour position or o´ clock position). The number is determined by the position of the secondary key relative to the main key, the position of which is defined as 6 o´clock. Non hour position is given for 20-25 V, 50-60 Hz, since there is no secondary key on these plugs and sockets.
The width of the key is different for 16 A and 32 A plugs and sockets. In addition, there is a color coding system: the cover or front part is violet on 20-25 V and white on 40-50 V plugs and sockets. Plugs and sockets for direct current are grey.



Positions and connections of the contact

Table according to IEC 60309-2
Plugs and sockets for max. 50 V.

Terminals/ Poles	Color code	Voltage	Frequency	Position of secondary key [1]
		V	Hz	
2	Violet	20-25	50-60	(none)
	White	40-50	50-60	12 h
	Green	20-25 and 40-50	100-200	4 h
			300	2 h
			400	3 h
			>400-500	11 h
	Grey		DC	10 h
3	Violet	20-25	50-60	(none)
	White	40-50	50-60	12 h
	Green	20-25 and 40-50	100-200	4 h
			300	2 h
			400	3 h
			>400-500	11 h

1) The position of main key is defined as 6h (6 o´clock)

Plugs

For extra low voltage



PLV216

16 A. IP44. Splashproof
Housing in plastic (PA). Cable entry with compression gland.

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pkg qty	Weight pkg (1pce) kg
2	Violet	20...25 AC	50 and 60	PLV216	2CMA100877R1000	10	0.142
	Grey	25 and 50 DC	-	PLV216-10	2CMA100879R1000		
	White	40...50 AC	50 and 60	PLV216-12	2CMA100878R1000		
3	Violet	20...25 AC	50 and 60	PLV316	2CMA100888R1000	10	0.160
	Green	25 and 50 DC	100...200	PLV316-4	2CMA100882R1000		
	White	40...50 AC	50 and 60	PLV316-12	2CMA100881R1000		

32 A. IP44.Splashproof
Housing in plastic (PA). Cable entry with compression gland.

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pkg qty	Weight pkg (1pce) kg
2	Violet	20...25 AC	50 and 60	PLV232	2CMA100883R1000	10	0.142
	Grey	25 and 50 DC	-	PLV232-10	2CMA100885R1000		
	White	40...50 AC	50 and 60	PLV232-12	2CMA100884R1000		
3	Violet	20...25 AC	50 and 60	PLV332	2CMA100886R1000	10	0.160
	Green	25 and 50 DC	100...200	PLV332-4	2CMA100888R1000		
	White	40...50 AC	50 and 60	PLV332-12	2CMA100887R1000		



PLV216W

16 A. IP67. Watertight
Housing in plastic (PA). Cable entry with compression gland.

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pkg qty	Weight pkg (1pce) kg
2	Violet	20...25 AC	50 and 60	PLV216W	2CMA100889R1000	10	0.164
	Grey	25 and 50 DC	-	PLV216-10W	2CMA100891R1000		
	White	40...50 AC	50 and 60	PLV216-12W	2CMA100890R1000		
3	Violet	20...25 AC	50 and 60	PLV316W	2CMA100892R1000	10	0.182
	Green	25 and 50 DC	100...200	PLV316-4W	2CMA100894R1000		
	White	40...50 AC	50 and 60	PLV316-12W	2CMA100893R1000		

32 A. IP67. Watertight
Housing in plastic (PA). Cable entry with compression gland.

Terminals/ Poles	Color code	Voltage V	Frequency Hz	Type	Order Code	Pkg qty	Weight pkg (1pce) kg
2	Violet	20...25 AC	50 and 60	PLV232W	2CMA100895R1000	10	0.164
	Grey	25 and 50 DC	-	PLV232-10W	2CMA100897R1000		
	White	40...50 AC	50 and 60	PLV232-12W	2CMA100896R1000		
3	Violet	20...25 AC	50 and 60	PLV332W	2CMA100898R1000	10	0.182
	Green	25 and 50 DC	100...200	PLV332-4W	2CMA100900R1000		
	White	40...50 AC	50 and 60	PLV332-12W	2CMA100899R1000		

Connectors

For extra low voltage



CLV216

16 A. IP44. Splashproof
Housing in plastic (PA). Cable entry with compression gland.

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2	Violet	20...25 AC	50 and 60	CLV216	2CMA100901R1000	10	0.177
	Grey	25 and 50 DC	-	CLV216-10	2CMA100903R1000		
	White	40...50 AC	50 and 60	CLV216-12	2CMA100902R1000		
3	Violet	20...25 AC	50 and 60	CLV316	2CMA100904R1000	10	0.198
	Green	25 and 50 DC	100...200	CLV316-4	2CMA100906R1000		
	White	40...50 AC	50 and 60	CLV316-12	2CMA100905R1000		

32 A. IP44.Splashproof
Housing in plastic (PA). Cable entry with compression gland.

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2	Violet	20...25 AC	50 and 60	CLV232	2CMA100907R1000	10	0.178
	Grey	25 and 50 DC	-	CLV232-10	2CMA100909R1000		
	White	40...50 AC	50 and 60	CLV232-12	2CMA100908R1000		
3	Violet	20...25 AC	50 and 60	CLV332	2CMA100910R1000	10	0.198
	Green	25 and 50 DC	100...200	CLV332-4	2CMA100912R1000		
	White	40...50 AC	50 and 60	CLV332-12	2CMA100911R1000		



CLV216W

16 A. IP67. Watertight
Housing in plastic (PA). Cable entry with compression gland.

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2	Violet	20...25 AC	50 and 60	CLV216W	2CMA100913R1000	10	0.199
	Grey	25 and 50 DC	-	CLV216-10W	2CMA100915R1000		
	White	40...50 AC	50 and 60	CLV216-12W	2CMA100914R1000		
3	Violet	20...25 AC	50 and 60	CLV316W	2CMA100916R1000	10	0.219
	Green	25 and 50 DC	100...200	CLV316-4W	2CMA100918R1000		
	White	40...50 AC	50 and 60	CLV316-12W	2CMA100917R1000		

32 A. IP67. Watertight
Housing in plastic (PA). Cable entry with compression gland.

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2	Violet	20...25 AC	50 and 60	CLV232W	2CMA100919R1000	10	0.199
	Grey	25 and 50 DC	-	CLV232-10W	2CMA100921R1000		
	White	40...50 AC	50 and 60	CLV232-12W	2CMA100920R1000		
3	Violet	20...25 AC	50 and 60	CLV332W	2CMA100922R1000	10	0.219
	Green	25 and 50 DC	100...200	CLV332-4W	2CMA100924R1000		
	White	40...50 AC	50 and 60	CLV332-12W	2CMA100923R1000		

Socket outlets

For extra low voltage



RLV216

For panel mounting with straight flange. 16 A. IP44. Splashproof
Housing in plastic (PA).

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2	Violet	20...25 AC	50 and 60	RLV216	2CMA100973R1000	10	0.099
	Grey	25 and 50 DC	-	RLV216-10	2CMA100975R1000		
	White	40...50 AC	50 and 60	RLV216-12	2CMA100974R1000		
3	Violet	20...25 AC	50 and 60	RLV316	2CMA100976R1000	10	0.114
	Green	25 and 50 DC	100...200	RLV316-4	2CMA100978R1000		
	White	40...50 AC	50 and 60	RLV316-12	2CMA100977R1000		

For panel mounting with straight flange. 32 A. IP44.Splashproof
Housing in plastic (PA).

2	Violet	20...25 AC	50 and 60	RLV232	2CMA100979R1000	10	0.099
	Grey	25 and 50 DC	-	RLV232-10	2CMA100981R1000		
	White	40...50 AC	50 and 60	RLV232-12	2CMA100980R1000		
3	Violet	20...25 AC	50 and 60	RLV332	2CMA100982R1000	10	0.114
	Green	25 and 50 DC	100...200	RLV332-4	2CMA100984R1000		
	White	40...50 AC	50 and 60	RLV332-12	2CMA100983R1000		



RSLV216

For surface mounging 16 A. IP44. Splashproof
Housing in plastic (PA). Treaded cable entry M25

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2	Violet	20...25 AC	50 and 60	RSLV216	2CMA100985R1000	10	0.198
	Grey	25 and 50 DC	-	RSLV216-10	2CMA100987R1000		
	White	40...50 AC	50 and 60	RSLV216-12	2CMA100986R1000		
3	Violet	20...25 AC	50 and 60	RSLV316	2CMA100988R1000	10	0.215
	Green	25 and 50 DC	100...200	RSLV316-4	2CMA100990R1000		
	White	40...50 AC	50 and 60	RSLV316-12	2CMA100989R1000		

Inlets

For extra low voltage



BSLV216

For surface mounting. 16 A. IP44. Splashproof
Housing in plastic (PA). Threaded cable entry M25.

Terminals/ Poles	Color code	Voltage	Frequency	Type	Order Code	Pkg qty	Weight pkg (1pce)
		V	Hz				kg
2	Violet	20...25 AC	50 and 60	BSLV216	2CMA100991R1000	10	0.165
	Grey	25 and 50 DC	-	BSLV216-10	2CMA100993R1000		
	White	40...50 AC	50 and 60	BSLV216-12	2CMA100992R1000		
3	Violet	20...25 AC	50 and 60	BSLV316	2CMA100994R1000	10	0.180
	Green	25 and 50 DC	100...200	BSLV316-4	2CMA100996R1000		
	White	40...50 AC	50 and 60	BSLV316-12	2CMA100995R1000		

Industrial plugs and sockets
High current connectors

The right soloution for every application.
The connector product portfolio covers almost all application in the defined high current range.



—

C-Line - 200 A/250 A
The compact C-Line connectors have a robust plastic housing and are perfect for applications with limited space conditions as well as for certain industries (chemistry, food industry). Additional options allow use in a variety of applications.



—

B-Line - 250 A/400 A
The robust B-Line connectors are ideal for applications (tunneling, mining), where high mechanical loads may arise. Furthermore, numerous options, such as the saltwater resistant housing, make the connectors also suitable for marine applications.



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Connector units 200 A...400 A
To ensure maximum safety for users, we can offer special connector units:
CUMI (connector unit with mechanical interlock)
CUBC (connector unit with block contactor)
CUCB (connector unit with circuit breaker)

High current connectors

In applications where high current connectors are used, safety, quality and reliability are the top priorites for customers.

Connectors for challenging applications
In order to fulfill this task, all these properties were bundled into one product range. Thus, all customers receive a product with the highest degree of performance.

Whether in tunnel construction, where extremely mechanical strength is required or railway applications where vibration-proof is of highest importance, the high current connectors are always the right choice.

Robust housing
The connectors are designed for ambient temperatures from -40 C to +100 °C. This ensures full functionality at low and very high temperatures. This leads to significantly fewer plant failures (reduced risk of overheating) and reduced fire risk. Another important aspect for various industries, such as tunnel construction, construction sites, mines is the high robustness of the connectors. These can withstand loads of up to 2 tonnes.

IK Code
The IK code is a coding system according to IEC/EN 50102 or IEC/EN 62262, which indicates the degreee of protection by a housing against harmful external stresses. Each characteristic number of the IK code represent a stress relief value.

IK code	01	02	03	04	05	06	07	08	09	10
Stress energy joule	0.14	0.2	0.35	0.5	0.7	1	2	4	10	20

The connectors of the C-Line and B-Line are IK 10 classified.

Finger touch protection
Each socket is equipped with a finger touch protection in order to safeguard the user against electrical shocks in the event of unintentional contact with live parts.

IP67/IP55
The connectors are IP67. They are dust-proof and suitable for temporary immersions under water. The connector units are IP55, which means protected against dust and splashing water.
- Always reliable in adverse environmental conditions
- Suitable for high humidity applications
- Low maintenance (no dust/moisture penetration)
- High security ensured at all times

Voltage coding
Arrangement of the PE contact pin and bushing to prevent wrong plugging of various voltages and frequencies after the time setting in accordance with table 104 from EN 60309-2. The standard earthing contact specifies the time setting.

Applications
Connectors for every task
- Tunnel contruction
- Marine
- Railway
- Military
- Industry
- Construction site
- Event technology
- Mining
- Chemistry

Characteristics
- 200 A...400 A
- Robust housing
- 4- and 5-poles
- High reliability
- Compact design
- IP 67
- Finger touch protection
- Designed for high temperatures
- Vibration resistent

Special applications - on request
- Vibration resistants screws
- Seawater resistant housing
- Harnessed connectors

Customized solutions
If standard solutions do not meet all the requiremens of an application, customer-specific solutions are made upon request.

C-Line

The compact C-Line connectors have a robust plastic housing and are perfect for applications with limited space conditions as well as for certain industries (chemistry, food industry). Additional options allow use in a variety of applications.

Technical data	Unit	C-Line	
Norminal current	A	200	250
Rated current	A	250	285
Rated voltage	V	1000	
Rated frequency	Hz	50/60	
Withstand voltage (1 Min/50 Hz)	V	4000	
Protection grade		IP67	
Shock resistance		IK10	
Ambient temperature	°C	-40/+100	
Insulation resistance (Phase-phase and phase-earth)	MOhm	>500	
Comparative tracking index of the insert	CTI	>600	
Terminal cross-section (EN 60228 Class 5)	mm^2	35-150	
Max cross section pilot cable, conductor (EN 60228 Class 5)	mm^2	4	
Diameter of cable - separat pilot cable	mm	34-66	
Diameter of cable	mm	5-10	



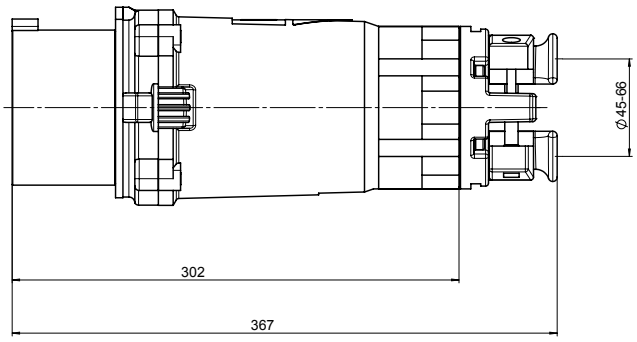
Plugs
C-Line

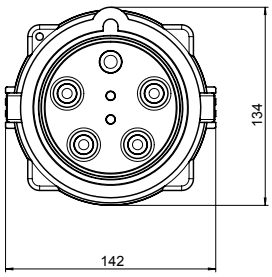


MC-S5/200 400V

IP67. Watertight
Robust plastic housing. Designed for high temperature.

Terminals/ Poles	Ampere	Voltage	Frequency	Hour	Type	Order Code	Pkg qty	Weight pkg (1pce)
	A	V	Hz					kg
3L+PEN								
4	200	230	50/60	9	MC-S4/200A/230V	2CMA103139R1000	1	2.7
		400		6	MC-S4/200A/400V	2CMA103140R1000		
		500		7	MC-S4/200A/500V	2CMA103141R1000		
		690		5	MC-S4/200A/690V	2CMA103142R1000		
		1000		1	MC-S4/200A/1000V	2CMA103143R1000		
3L+N+PE								
5	200	230	50/60	9	MC-S5/200A/230V	2CMA103144R1000	1	2.9
		400		6	MC-S5/200A/400V	2CMA103145R1000		
		500		7	MC-S5/200A/500V	2CMA103146R1000		
		690		5	MC-S5/200A/690V	2CMA103147R1000		
		1000		1	MC-S5/200A/1000V	2CMA103148R1000		
3L+PEN								
4	250	230	50/60	9	MC-S4/250A/230V	2CMA103149R1000	1	2.7
		400		6	MC-S4/250A/400V	2CMA103150R1000		
		500		7	MC-S4/250A/500V	2CMA103151R1000		
		690		5	MC-S4/250A/690V	2CMA103152R1000		
		1000		1	MC-S4/250A/1000V	2CMA103153R1000		
3L+N+PE								
5	250	230	50/60	9	MC-S5/250A/230V	2CMA103154R1000	1	2.9
		400		6	MC-S5/250A/400V	2CMA103155R1000		
		500		7	MC-S5/250A/500V	2CMA103156R1000		
		690		5	MC-S5/250A/690V	2CMA103157R1000		
		1000		1	MC-S5/250A/1000V	2CMA103158R1000		





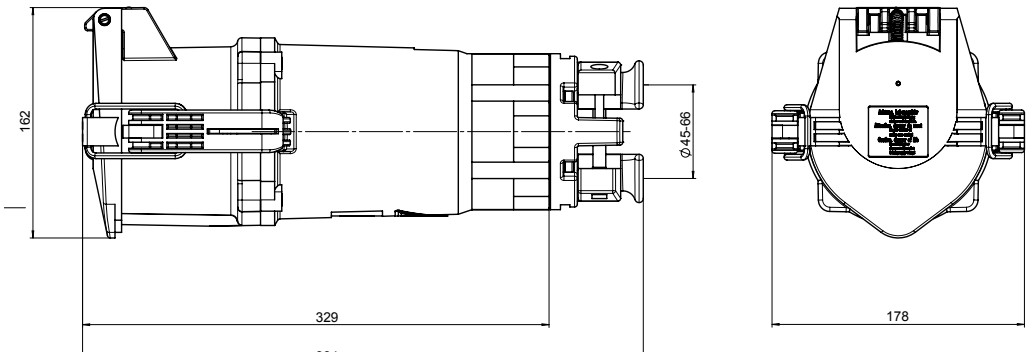
Sockets
C-Line



FC-S5/200 400V

IP67. Watertight
Robust plastic housing. Designed for high temperature.

Terminals/ Poles	Ampere	Voltage	Frequency	Hour	Type	Order Code	Pkg qty	Weight pkg (1pce)
	A	V	Hz					kg
3L+PEN								
4	200	230	50/60	9	FC-S4/200 230V	2CMA103299R1000	1	3.4
		400		6	FC-S4/200 400V	2CMA103300R1000		
		500		7	FC-S4/200 500V	2CMA103301R1000		
		690		5	FC-S4/200 690V	2CMA103302R1000		
		1000		1	FC-S4/200 1000V	2CMA103303R1000		
3L+N+PE								
5	200	230	50/60	9	FC-S5/200 230V	2CMA103304R1000	1	3.6
		400		6	FC-S5/200 400V	2CMA103305R1000		
		500		7	FC-S5/200 500V	2CMA103306R1000		
		690		5	FC-S5/200 690V	2CMA103307R1000		
		1000		1	FC-S5/200 1000V	2CMA103308R1000		
3L+PEN								
4	250	230	50/60	9	FC-S4/250 230V	2CMA103309R1000	1	3.4
		400		6	FC-S4/250 400V	2CMA103310R1000		
		500		7	FC-S4/250 500V	2CMA103311R1000		
		690		5	FC-S4/250 690V	2CMA103312R1000		
		1000		1	FC-S4/250 1000V	2CMA103313R1000		
3L+N+PE								
5	250	230	50/60	9	FC-S5/250 230V	2CMA103314R1000	1	3.6
		400		6	FC-S5/250 400V	2CMA103315R1000		
		500		7	FC-S5/250 500V	2CMA103316R1000		
		690		5	FC-S5/250 690V	2CMA103317R1000		
		1000		1	FC-S5/250 1000V	2CMA103318R1000		



Inlets for wall mounting

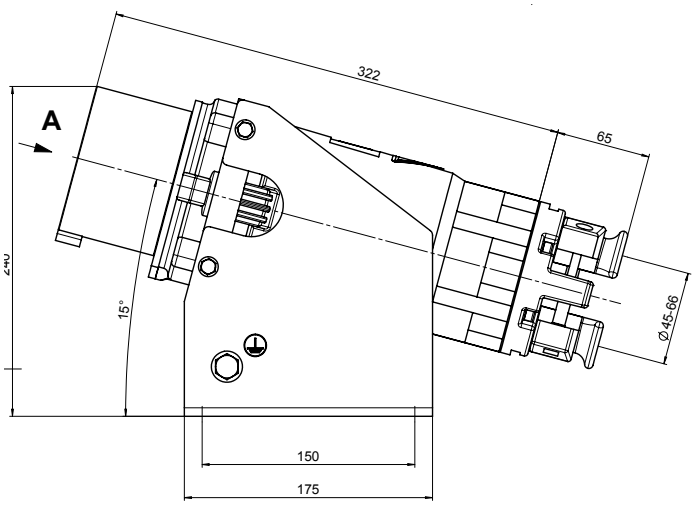
C-Line

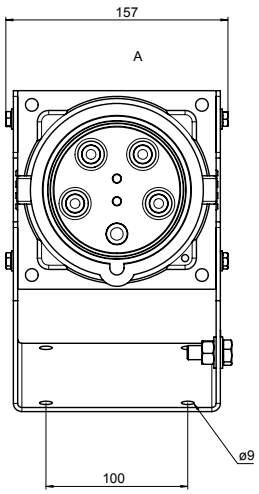


MCW-S5/200 400V

IP67. Watertight
Robust plastic housing. Designed for high temperature.

Terminals/ Poles	Ampere	Voltage	Frequency	Hour	Type	Order Code	Pkg qty	Weight pkg (1pce)
	A	V	Hz					kg
3L+PEN								
4	200	230	50/60	9	MCW-S4/200 230V	2CMA103259R1000	1	3.6
		400		6	MCW-S4/200 400V	2CMA103260R1000		
		500		7	MCW-S4/200 500V	2CMA103261R1000		
		690		5	MCW-S4/200 690V	2CMA103262R1000		
		1000		1	MCW-S4/200 1000V	2CMA103263R1000		
3L+N+PE								
5	200	230	50/60	9	MCW-S5/200 230V	2CMA103264R1000	1	3.8
		400		6	MCW-S5/200 400V	2CMA103265R1000		
		500		7	MCW-S5/200 500V	2CMA103266R1000		
		690		5	MCW-S5/200 690V	2CMA103267R1000		
		1000		1	MCW-S5/200 1000V	2CMA103268R1000		
3L+PEN								
4	250	230	50/60	9	MCW-S4/250 230V	2CMA103269R1000	1	3.6
		400		6	MCW-S4/250 400V	2CMA103270R1000		
		500		7	MCW-S4/250 500V	2CMA103271R1000		
		690		5	MCW-S4/250 690V	2CMA103272R1000		
		1000		1	MCW-S4/250 1000V	2CMA103273R1000		
3L+N+PE								
5	250	230	50/60	9	MCW-S5/250 230V	2CMA103274R1000	1	3.8
		400		6	MCW-S5/250 400V	2CMA103275R1000		
		500		7	MCW-S5/250 500V	2CMA103276R1000		
		690		5	MCW-S5/250 690V	2CMA103277R1000		
		1000		1	MCW-S5/250 10000V	2CMA103278R1000		





Inlets for panel mounting

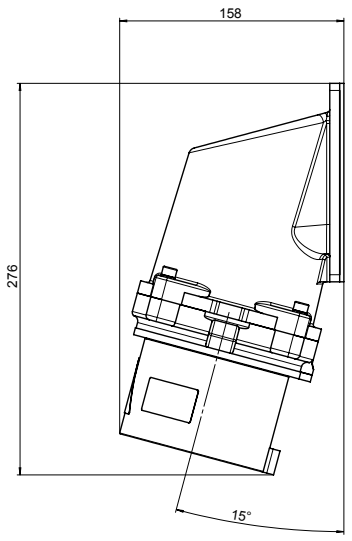
C-Line

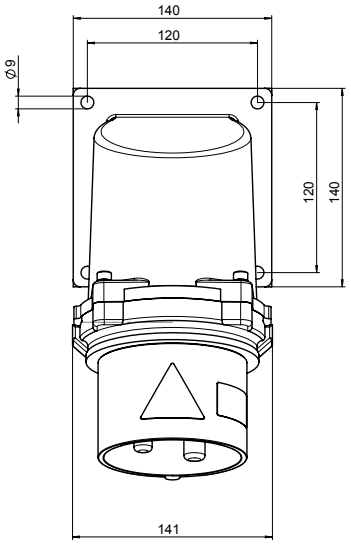


MCPA-S5/200 400V

IP67. Watertight
Robust housing. Designed for high temperature.

Terminals/ Poles	Ampere	Voltage	Frequency	Hour	Type	Order Code	Pkg qty	Weight pkg (1pce)
	A	V	Hz					kg
3L+PEN								
4	200	230	50/60	9	MCPA-S4/200 230V	2CMA103219R1000	1	4.2
		400		6	MCPA-S4/200 400V	2CMA103220R1000		
		500		7	MCPA-S4/200 500V	2CMA103221R1000		
		690		5	MCPA-S4/200 690V	2CMA103222R1000		
		1000		1	MCPA-S4/200 1000V	2CMA103223R1000		
3L+N+PE								
5	200	230	50/60	9	MCPA-S5/200 230V	2CMA103224R1000	1	4.4
		400		6	MCPA-S5/200 400V	2CMA103225R1000		
		500		7	MCPA-S5/200 500V	2CMA103226R1000		
		690		5	MCPA-S5/200 690V	2CMA103227R1000		
		1000		1	MCPA-S5/200 1000V	2CMA103228R1000		
3L+PEN								
4	250	230	50/60	9	MCPA-S4/250 230V	2CMA103229R1000	1	4.2
		400		6	MCPA-S4/250 400V	2CMA103230R1000		
		500		7	MCPA-S4/250 500V	2CMA103231R1000		
		690		5	MCPA-S4/250 690V	2CMA103232R1000		
		1000		1	MCPA-S4/250 1000V	2CMA103233R1000		
3L+N+PE								
5	250	230	50/60	9	MCPA-S5/250 230V	2CMA103234R1000	1	4.4
		400		6	MCPA-S5/250 400V	2CMA103235R1000		
		500		7	MCPA-S5/250 500V	2CMA103236R1000		
		690		5	MCPA-S5/250 690V	2CMA103237R1000		
		1000		1	MCPA-S5/250 1000V	2CMA103238R1000		





Inlets for panel mounting

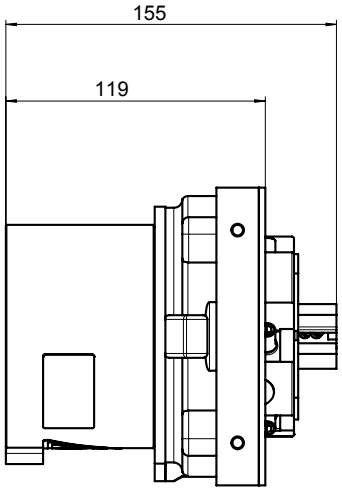
C-Line

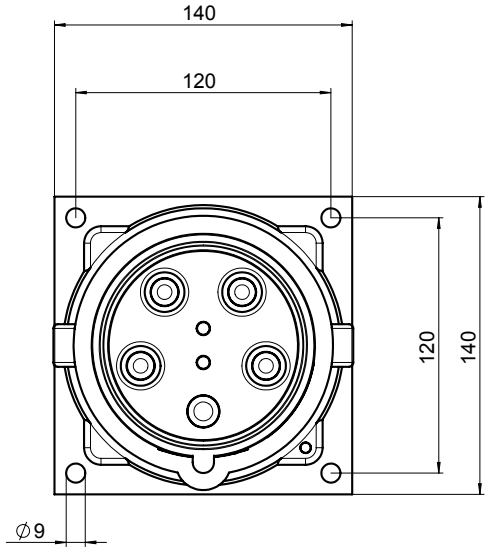


MCP-S5/200 400V

IP67. Watertight
Robust housing. Designed for high temperature.

Terminals/ Poles	Ampere	Voltage	Frequency	Hour	Type	Order Code	Pkg qty	Weight pkg (1pce)
	A	V	Hz					kg
3L+PEN								
4	200	230	50/60	9	MCP-S4/200 230V	2CMA103179R1000	1	2.2
		400		6	MCP-S4/200 400V	2CMA103180R1000		
		500		7	MCP-S4/200 500V	2CMA103181R1000		
		690		5	MCP-S4/200 690V	2CMA103182R1000		
		1000		1	MCP-S4/200 1000V	2CMA103183R1000		
3L+N+PE								
5	200	230	50/60	9	MCP-S5/200 230V	2CMA103184R1000	1	2.4
		400		6	MCP-S5/200 400V	2CMA103185R1000		
		500		7	MCP-S5/200 500V	2CMA103186R1000		
		690		5	MCP-S5/200 690V	2CMA103187R1000		
		1000		1	MCP-S5/200 1000V	2CMA103188R1000		
3L+PEN								
4	250	230	50/60	9	MCP-S4/250 230V	2CMA103189R1000	1	2.2
		400		6	MCP-S4/250 400V	2CMA103190R1000		
		500		7	MCP-S4/250 500V	2CMA103191R1000		
		690		5	MCP-S4/250 690V	2CMA103192R1000		
		1000		1	MCP-S4/250 1000V	2CMA103193R1000		
3L+N+PE								
5	250	230	50/60	9	MCP-S5/250 230V	2CMA103194R1000	1	2.4
		400		6	MCP-S5/250 400V	2CMA103195R1000		
		500		7	MCP-S5/250 500V	2CMA103196R1000		
		690		5	MCP-S5/250 690V	2CMA103197R1000		
		1000		1	MCP-S5/250 1000V	2CMA103198R1000		





Socket outlet for wall mounting

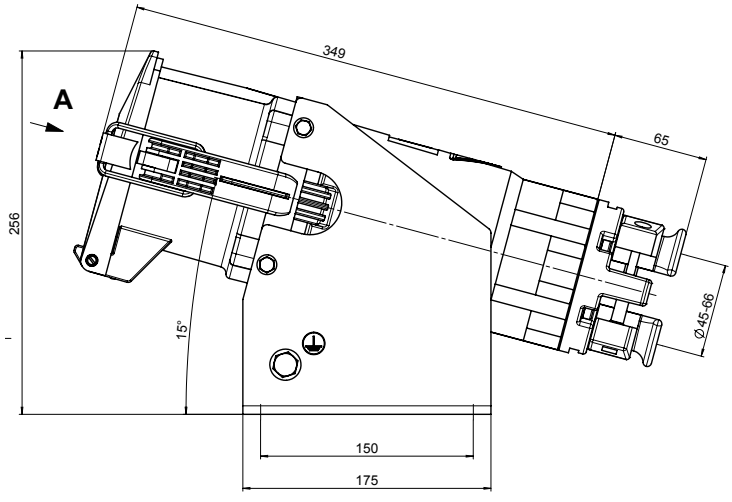
C-Line

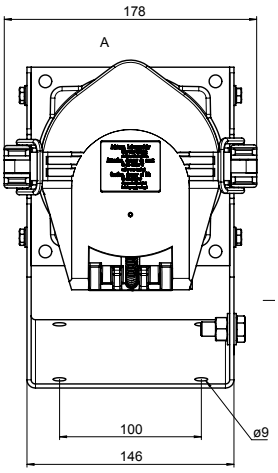


FCW-S5/200 400V

IP67. Watertight
Robust plastic housing. Designed for high temperature.

Terminals/ Poles	Ampere	Voltage	Frequency	Hour	Type	Order Code	Pkg qty	Weight pkg (1pce)
	A	V	Hz					kg
3L+PEN								
4	200	230	50/60	9	FCW-S4/200 230V	2CMA103419R1000	1	4.3
		400		6	FCW-S4/200 400V	2CMA103420R1000		
		500		7	FCW-S4/200 500V	2CMA103421R1000		
		690		5	FCW-S4/200 690V	2CMA103422R1000		
		1000		1	FCW-S4/200 1000V	2CMA103423R1000		
3L+N+PE								
5	200	230	50/60	9	FCW-S5/200 230V	2CMA103424R1000	1	4.5
		400		6	FCW-S5/200 400V	2CMA103425R1000		
		500		7	FCW-S5/200 500V	2CMA103426R1000		
		690		5	FCW-S5/200 690V	2CMA103427R1000		
		1000		1	FCW-S5/200 1000V	2CMA103428R1000		
3L+PEN								
4	250	230	50/60	9	FCW-S4/250 230V	2CMA103429R1000	1	4.3
		400		6	FCW-S4/250 400V	2CMA103430R1000		
		500		7	FCW-S4/250 500V	2CMA103431R1000		
		690		5	FCW-S4/250 690V	2CMA103432R1000		
		1000		1	FCW-S4/250 1000V	2CMA103433R1000		
3L+N+PE								
5	250	230	50/60	9	FCW-S5/250 230V	2CMA103434R1000	1	4.5
		400		6	FCW-S5/250 400V	2CMA103435R1000		
		500		7	FCW-S5/250 500V	2CMA103436R1000		
		690		5	FCW-S5/250 690V	2CMA103437R1000		
		1000		1	FCW-S5/250 1000V	2CMA103438R1000		





Socket outlet for wall mounting

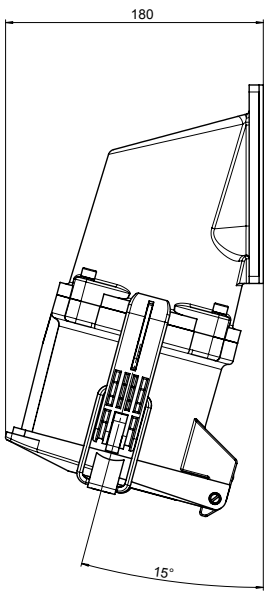
C-Line

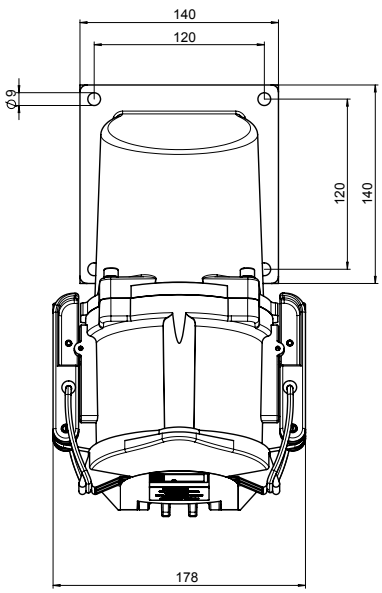


FCPA-S5/200 400V

IP67. Watertight
Robust housing. Designed for high temperature.

Terminals/ Poles	Ampere	Voltage	Frequency	Hour	Type	Order Code	Pkg qty	Weight pkg (1pce)
	A	V	Hz					kg
3L+PEN								
4	200	230	50/60	9	FCPA-S4/200 230V	2CMA103379R1000	1	4.4
		400		6	FCPA-S4/200 400V	2CMA103380R1000		
		500		7	FCPA-S4/200 500V	2CMA103381R1000		
		690		5	FCPA-S4/200 690V	2CMA103382R1000		
		1000		1	FCPA-S4/200 1000V	2CMA103383R1000		
3L+N+PE								
5	200	230	50/60	9	FCPA-S5/200 230V	2CMA103384R1000	1	4.6
		400		6	FCPA-S5/200 400V	2CMA103385R1000		
		500		7	FCPA-S5/200 500V	2CMA103386R1000		
		690		5	FCPA-S5/200 690V	2CMA103387R1000		
		1000		1	FCPA-S5/200 1000V	2CMA103388R1000		
3L+PEN								
4	250	230	50/60	9	FCPA-S4/250 230V	2CMA103389R1000	1	4.4
		400		6	FCPA-S4/250 400V	2CMA103390R1000		
		500		7	FCPA-S4/250 500V	2CMA103391R1000		
		690		5	FCPA-S4/250 690V	2CMA103392R1000		
		1000		1	FCPA-S4/250 1000V	2CMA103393R1000		
3L+N+PE								
5	250	230	50/60	9	FCPA-S5/250 230V	2CMA103394R1000	1	4.6
		400		6	FCPA-S5/250 400V	2CMA103395R1000		
		500		7	FCPA-S5/250 500V	2CMA103396R1000		
		690		5	FCPA-S5/250 690V	2CMA103397R1000		
		1000		1	FCPA-S5/250 1000V	2CMA103398R1000		





Socket outlet for panel mounting

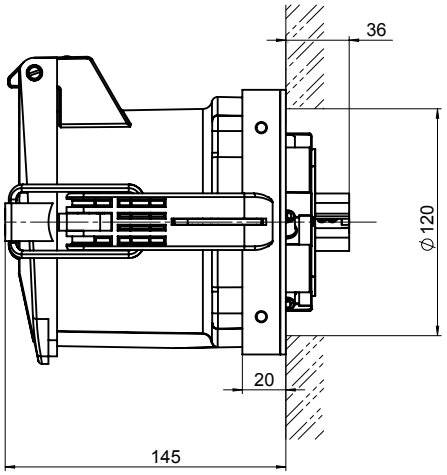
C-Line

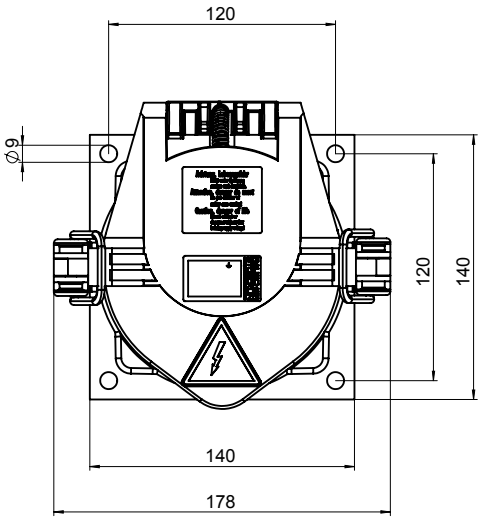


FCP-S5/200 400V

IP67. Watertight
Robust housing. Designed for high temperature.

Terminals/ Poles	Ampere	Voltage	Frequency	Hour	Type	Order Code	Pkg qty	Weight pkg (1pce)
	A	V	Hz					kg
3L+PEN								
4	200	230	50/60	9	FCP-S4/200 230V	2CMA103339R1000	1	3.2
		400		6	FCP-S4/200 400V	2CMA103340R1000		
		500		7	FCP-S4/200 500V	2CMA103341R1000		
		690		5	FCP-S4/200 690V	2CMA103342R1000		
		1000		1	FCP-S4/200 1000V	2CMA103343R1000		
3L+N+PE								
5	200	230	50/60	9	FCP-S5/200 230V	2CMA103344R1000	1	3.5
		400		6	FCP-S5/200 400V	2CMA103345R1000		
		500		7	FCP-S5/200 500V	2CMA103346R1000		
		690		5	FCP-S5/200 690V	2CMA103347R1000		
		1000		1	FCP-S5/200 1000V	2CMA103348R1000		
3L+PEN								
4	250	230	50/60	9	FCP-S4/250 230V	2CMA103349R1000	1	3.2
		400		6	FCP-S4/250 400V	2CMA103350R1000		
		500		7	FCP-S4/250 500V	2CMA103351R1000		
		690		5	FCP-S4/250 690V	2CMA103352R1000		
		1000		1	FCP-S4/250 1000V	2CMA103353R1000		
3L+N+PE								
5	250	230	50/60	9	FCP-S5/250 230V	2CMA103354R1000	1	3.5
		400		6	FCP-S5/250 400V	2CMA103355R1000		
		500		7	FCP-S5/250 500V	2CMA103356R1000		
		690		5	FCP-S5/250 690V	2CMA103357R1000		
		1000		1	FCP-S5/250 1000V	2CMA103358R1000		





B-Line

The robust B-Line connectors are ideal for applications (tunneling, mining), where high mechanical loads may arise. Furthermore, numerous options, such as the saltwater-resistant housing, make the connectors also suitable for marine applications.

Technical data	Unit	B-Line	
Norminal current	A	250	400
Rated current	A	315	450
Rated voltage	V	1000	
Rated frequency	Hz	50/60	
Withstand voltage (1 Min/50 Hz)	V	4000	
Protection grade		IP67	
Shock resistance		IK10	
Ambient temperature	°C	-40/+100	
Insulation resistance (Phase-phase and phase-earth)	MOhm	>500	
Comparative tracking index of the insert	CTI	>600	
Terminal cross-section (EN 60228 Class 5)	mm^2	70-240	
Max cross section pilot cable, conductor (EN 60228 Class 5)	mm^2	4	
Diameter of cable - separat pilot cable	mm	34-66	
Diameter of cable	mm	8-15	



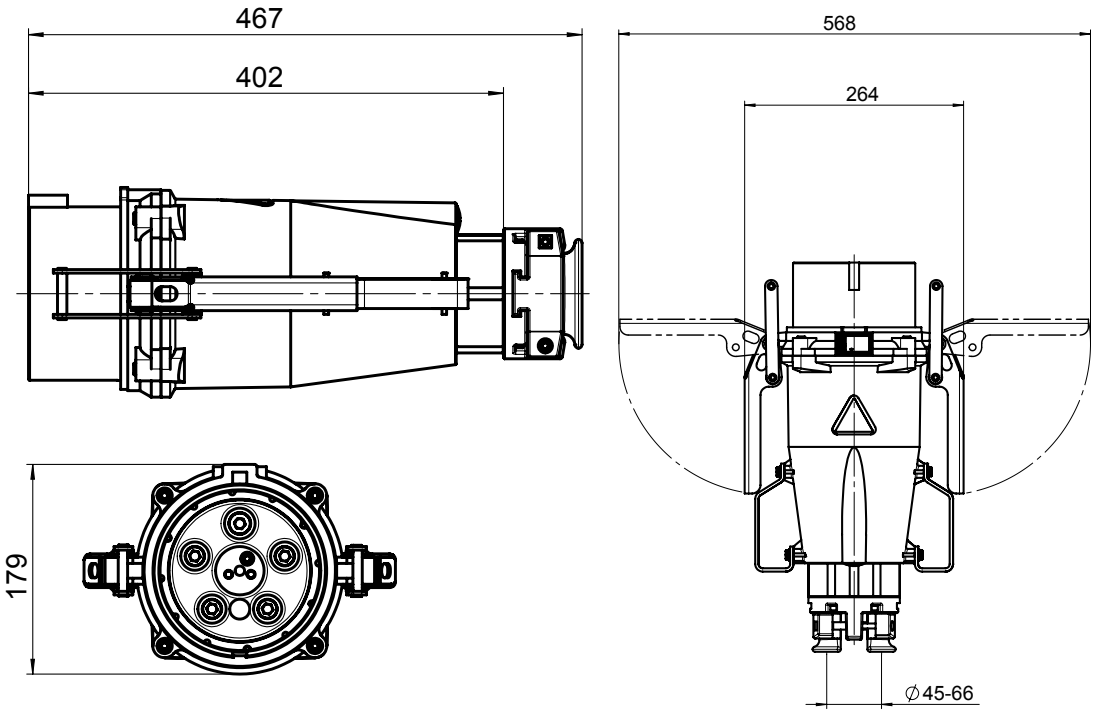
Plugs
B-Line



MC-S5/250 400V

IP67. Watertight
Aluminum housing. Designed for high temperature.

Terminals/ Poles	Ampere	Voltage	Frequency	Hour	Type	Order Code	Pkg qty	Weight pkg (1pce)
	A	V	Hz					kg
3L+PEN								
4	250	230	50/60	9	MC-S4/250A/230V	2CMA103159R1000	1	8.1
		400		6	MC-S4/250A/400V	2CMA103160R1000		
		500		7	MC-S4/250A/500V	2CMA103161R1000		
		690		5	MC-S4/250A/690V	2CMA103162R1000		
		1000		1	MC-S4/250A/1000V	2CMA103163R1000		
3L+N+PE								
5	250	230	50/60	9	MC-S5/250A/230V	2CMA103164R1000	1	8.6
		400		6	MC-S5/250A/400V	2CMA103165R1000		
		500		7	MC-S5/250A/500V	2CMA103166R1000		
		690		5	MC-S5/250A/690V	2CMA103167R1000		
		1000		1	MC-S5/250A/1000V	2CMA103168R1000		
3L+PEN								
4	400	230	50/60	9	MC-S4/400A/230V	2CMA103169R1000	1	8.1
		400		6	MC-S4/400A/400V	2CMA103170R1000		
		500		7	MC-S4/400A/500V	2CMA103171R1000		
		690		5	MC-S4/400A/690V	2CMA103172R1000		
		1000		1	MC-S4/400A/1000V	2CMA103173R1000		
3L+N+PE								
5	400	230	50/60	9	MC-S5/400A/230V	2CMA103174R1000	1	8.6
		400		6	MC-S5/400A/400V	2CMA103175R1000		
		500		7	MC-S5/400A/500V	2CMA103176R1000		
		690		5	MC-S5/400A/690V	2CMA103177R1000		
		1000		1	MC-S5/400A/1000V	2CMA103178R1000		



Sockets

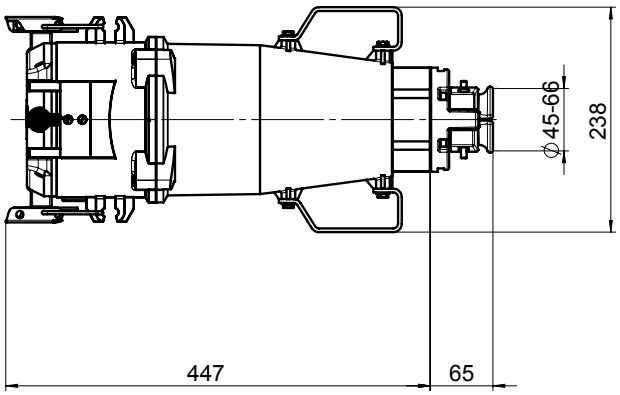
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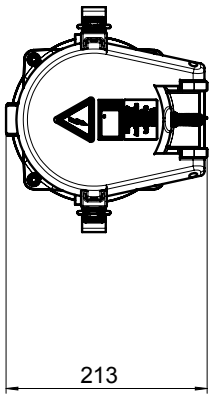


FC-S5/250 400V

IP67. Watertight
Aluminum housing. Designed for high temperature.

Terminals/ Poles	Ampere	Voltage	Frequency	Hour	Type	Order Code	Pkg qty	Weight pkg (1pce)
	A	V	Hz					kg
3L+PEN								
4	250	230	50/60	9	FC-S4/250 230V	2CMA103319R1000	1	9.4
		400		6	FC-S4/250 400V	2CMA103320R1000		
		500		7	FC-S4/250 500V	2CMA103321R1000		
		690		5	FC-S4/250 690V	2CMA103322R1000		
		1000		1	FC-S4/250 1000V	2CMA103323R1000		
3L+N+PE								
5	250	230	50/60	9	FC-S5/250 230V	2CMA103324R1000	1	9.9
		400		6	FC-S5/250 400V	2CMA103325R1000		
		500		7	FC-S5/250 500V	2CMA103326R1000		
		690		5	FC-S5/250 690V	2CMA103327R1000		
		1000		1	FC-S5/250 1000V	2CMA103328R1000		
3L+PEN								
4	400	230	50/60	9	FC-S4/400 230V	2CMA103329R1000	1	9.4
		400		6	FC-S4/400 400V	2CMA103330R1000		
		500		7	FC-S4/400 500V	2CMA103331R1000		
		690		5	FC-S4/400 690V	2CMA103332R1000		
		1000		1	FC-S4/400 1000V	2CMA103333R1000		
3L+N+PE								
5	400	230	50/60	9	FC-S5/400 230V	2CMA103334R1000	1	9.9
		400		6	FC-S5/400 400V	2CMA103335R1000		
		500		7	FC-S5/400 500V	2CMA103336R1000		
		690		5	FC-S5/400 690V	2CMA103337R1000		
		1000		1	FC-S5/400 1000V	2CMA103338R1000		





Inlets for wall mounting

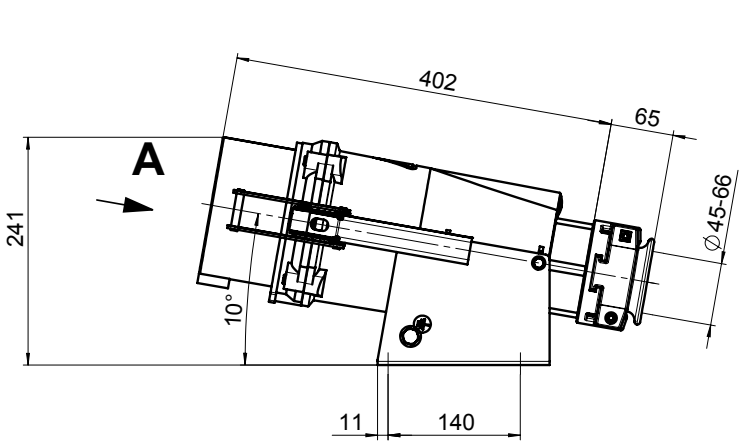
B-Line

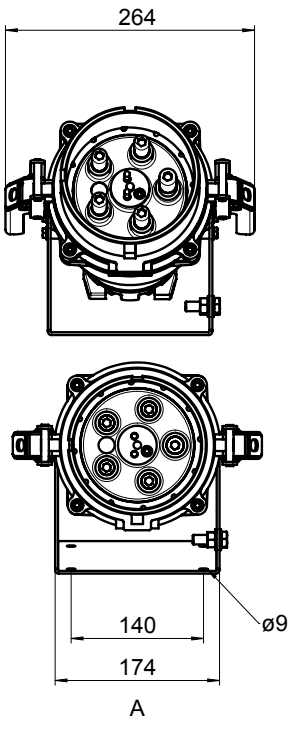


MCW-S5/250 400V

IP67. Watertight
Aluminum housing. Designed for high temperature.

Terminals/ Poles	Ampere	Voltage	Frequency	Hour	Type	Order Code	Pkg qty	Weight pkg (1pce)
	A	V	Hz					kg
3L+PEN								
4	250	230	50/60	9	MCW-S4/250 230V	2CMA103279R1000	1	10.0
		400		6	MCW-S4/250 400V	2CMA103280R1000		
		500		7	MCW-S4/250 500V	2CMA103281R1000		
		690		5	MCW-S4/250 690V	2CMA103282R1000		
		1000		1	MCW-S4/250 1000V	2CMA103283R1000		
3L+N+PE								
5	250	230	50/60	9	MCW-S5/250 230V	2CMA103284R1000	1	10.5
		400		6	MCW-S5/250 400V	2CMA103285R1000		
		500		7	MCW-S5/250 500V	2CMA103286R1000		
		690		5	MCW-S5/250 690V	2CMA103287R1000		
		1000		1	MCW-S5/250 10000V	2CMA103288R1000		
3L+PEN								
4	400	230	50/60	9	MCW-S4/400 230V	2CMA103289R1000	1	10.0
		400		6	MCW-S4/400 400V	2CMA103290R1000		
		500		7	MCW-S4/400 500V	2CMA103291R1000		
		690		5	MCW-S4/400 690V	2CMA103292R1000		
		1000		1	MCW-S4/400 1000V	2CMA103293R1000		
3L+N+PE								
5	400	230	50/60	9	MCW-S5/400 230V	2CMA103294R1000	1	10.5
		400		6	MCW-S5/400 400V	2CMA103295R1000		
		500		7	MCW-S5/400 500V	2CMA103296R1000		
		690		5	MCW-S5/400 690V	2CMA103297R1000		
		1000		1	MCW-S5/400 1000V	2CMA103298R1000		





Inlets for panel mounting

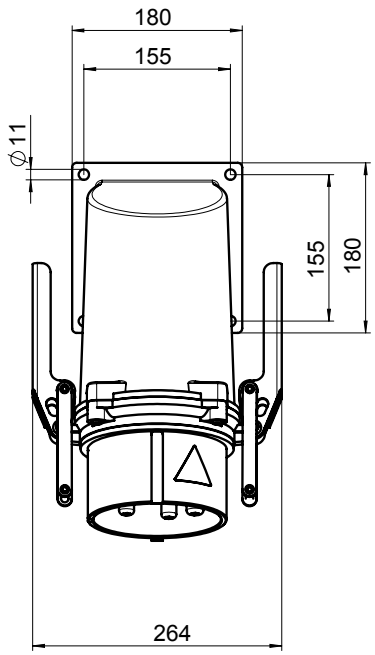
B-Line

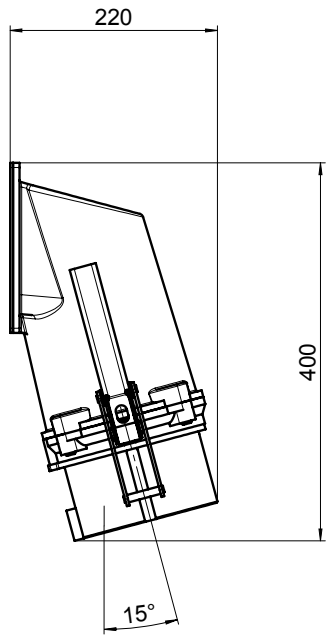


MCPA-S5/250 400V

IP67. Watertight
Aluminum housing. Designed for high temperature.

Terminals/ Poles	Ampere	Voltage	Frequency	Hour	Type	Order Code	Pkg qty	Weight pkg (1pce)
	A	V	Hz					kg
3L+PEN								
4	250	230	50/60	9	MCPA-S4/250 230V	2CMA103239R1000	1	9.8
		400		6	MCPA-S4/250 400V	2CMA103240R1000		
		500		7	MCPA-S4/250 500V	2CMA103241R1000		
		690		5	MCPA-S4/250 690V	2CMA103242R1000		
		1000		1	MCPA-S4/250 1000V	2CMA103243R1000		
3L+N+PE								
5	250	230	50/60	9	MCPA-S5/250 230V	2CMA103244R1000	1	10.3
		400		6	MCPA-S5/250 400V	2CMA103245R1000		
		500		7	MCPA-S5/250 500V	2CMA103246R1000		
		690		5	MCPA-S5/250 690V	2CMA103247R1000		
		1000		1	MCPA-S5/250 1000V	2CMA103248R1000		
3L+PEN								
4	400	230	50/60	9	MCPA-S4/400 230V	2CMA103249R1000	1	9.8
		400		6	MCPA-S4/400 400V	2CMA103250R1000		
		500		7	MCPA-S4/400 500V	2CMA103251R1000		
		690		5	MCPA-S4/400 690V	2CMA103252R1000		
		1000		1	MCPA-S4/400 1000V	2CMA103253R1000		
3L+N+PE								
5	400	230	50/60	9	MCPA-S5/400 230V	2CMA103254R1000	1	10.3
		400		6	MCPA-S5/400 400V	2CMA103255R1000		
		500		7	MCPA-S5/400 500V	2CMA103256R1000		
		690		5	MCPA-S5/400 690V	2CMA103257R1000		
		1000		1	MCPA-S5/400 1000V	2CMA103258R1000		





Inlets for panel mounting

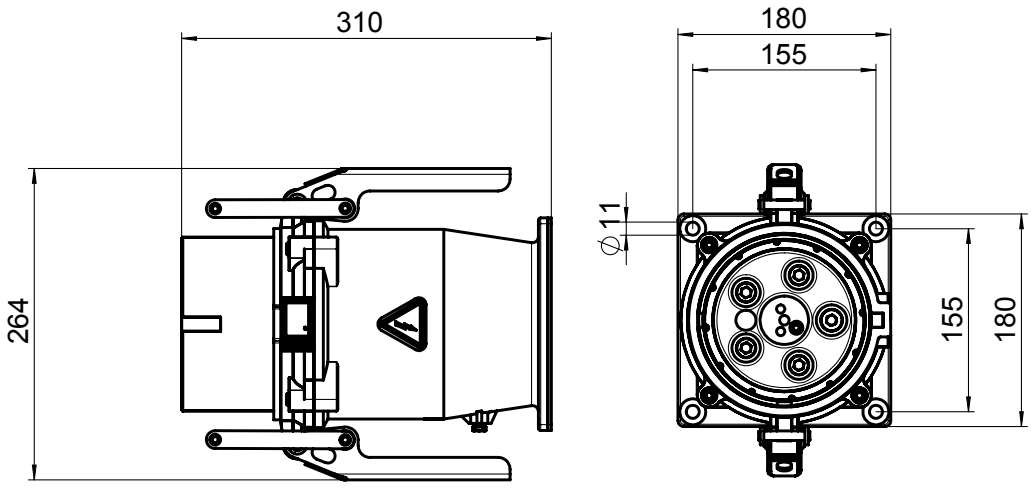
B-Line



MCP-S5/250 400V

IP67. Watertight
Aluminum housing. Designed for high temperature.

Terminals/ Poles	Ampere	Voltage	Frequency	Hour	Type	Order Code	Pkg qty	Weight pkg (1pce)
	A	V	Hz					kg
3L+PEN								
4	250	230	50/60	9	MCP-S4/250 230V	2CMA103199R1000	1	8.1
		400		6	MCP-S4/250 400V	2CMA103200R1000		
		500		7	MCP-S4/250 500V	2CMA103201R1000		
		690		5	MCP-S4/250 690V	2CMA103202R1000		
		1000		1	MCP-S4/250 1000V	2CMA103203R1000		
3L+N+PE								
5	250	230	50/60	9	MCP-S5/250 230V	2CMA103204R1000	1	8.6
		400		6	MCP-S5/250 400V	2CMA103205R1000		
		500		7	MCP-S5/250 500V	2CMA103206R1000		
		690		5	MCP-S5/250 690V	2CMA103207R1000		
		1000		1	MCP-S5/250 1000V	2CMA103208R1000		
3L+PEN								
4	400	230	50/60	9	MCP-S4/400 230V	2CMA103209R1000	1	8.1
		400		6	MCP-S4/400 400V	2CMA103210R1000		
		500		7	MCP-S4/400 500V	2CMA103211R1000		
		690		5	MCP-S4/400 690V	2CMA103212R1000		
		1000		1	MCP-S4/400 1000V	2CMA103213R1000		
3L+N+PE								
5	400	230	50/60	9	MCP-S5/400 230V	2CMA103214R1000	1	8.6
		400		6	MCP-S5/400 400V	2CMA103215R1000		
		500		7	MCP-S5/400 500V	2CMA103216R1000		
		690		5	MCP-S5/400 690V	2CMA103217R1000		
		1000		1	MCP-S5/400 1000V	2CMA103218R1000		



Socket outlet for wall mounting

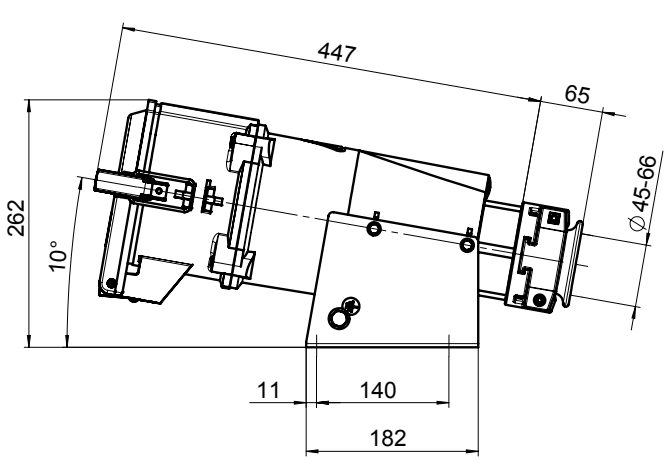
B-Line

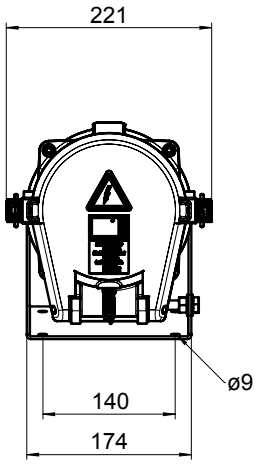


FCW-S5/250 400V

IP67. Watertight
Aluminum housing. Designed for high temperature.

Terminals/ Poles	Ampere	Voltage	Frequency	Hour	Type	Order Code	Pkg qty	Weight pkg (1pce)
	A	V	Hz					kg
3L+PEN								
4	250	230	50/60	9	FCW-S4/250 230V	2CMA103439R1000	1	11.5
		400		6	FCW-S4/250 400V	2CMA103440R1000		
		500		7	FCW-S4/250 500V	2CMA103441R1000		
		690		5	FCW-S4/250 690V	2CMA103442R1000		
		1000		1	FCW-S4/250 1000V	2CMA103443R1000		
3L+N+PE								
5	250	230	50/60	9	FCW-S5/250 230V	2CMA103444R1000	1	12.0
		400		6	FCW-S5/250 400V	2CMA103445R1000		
		500		7	FCW-S5/250 500V	2CMA103446R1000		
		690		5	FCW-S5/250 690V	2CMA103447R1000		
		1000		1	FCW-S5/250 1000V	2CMA103448R1000		
3L+PEN								
4	400	230	50/60	9	FCW-S4/400 230V	2CMA103449R1000	1	11.5
		400		6	FCW-S4/400 400V	2CMA103450R1000		
		500		7	FCW-S4/400 500V	2CMA103451R1000		
		690		5	FCW-S4/400 690V	2CMA103452R1000		
		1000		1	FCW-S4/400 1000V	2CMA103453R1000		
3L+N+PE								
5	400	230	50/60	9	FCW-S5/400 230V	2CMA103454R1000	1	12.0
		400		6	FCW-S5/400 400V	2CMA103455R1000		
		500		7	FCW-S5/400 500V	2CMA103456R1000		
		690		5	FCW-S5/400 690V	2CMA103457R1000		
		1000		1	FCW-S5/400 1000V	2CMA103458R1000		





Socket outlet for wall mounting

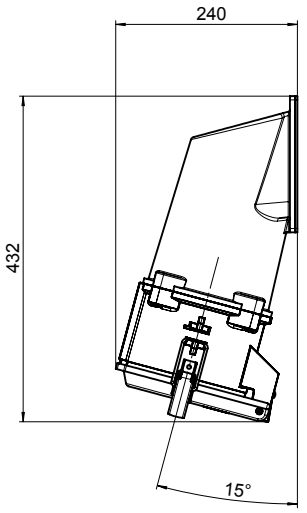
B-Line

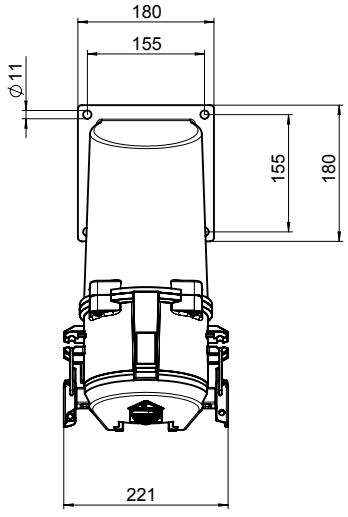


FCPA-S5/250 400V

IP67. Watertight
Aluminum housing. Designed for high temperature.

Terminals/ Poles	Ampere	Voltage	Frequency	Hour	Type	Order Code	Pkg qty	Weight pkg (1pce)
	A	V	Hz					kg
3L+PEN								
4	250	230	50/60	9	FCPA-S4/250 230V	2CMA103399R1000	1	10.3
		400		6	FCPA-S4/250 400V	2CMA103400R1000		
		500		7	FCPA-S4/250 500V	2CMA103401R1000		
		690		5	FCPA-S4/250 690V	2CMA103402R1000		
		1000		1	FCPA-S4/250 1000V	2CMA103403R1000		
3L+N+PE								
5	250	230	50/60	9	FCPA-S5/250 230V	2CMA103404R1000	1	10.8
		400		6	FCPA-S5/250 400V	2CMA103405R1000		
		500		7	FCPA-S5/250 500V	2CMA103406R1000		
		690		5	FCPA-S5/250 690V	2CMA103407R1000		
		1000		1	FCPA-S5/250 1000V	2CMA103408R1000		
3L+PEN								
4	400	230	50/60	9	FCPA-S4/400 230V	2CMA103409R1000	1	10.3
		400		6	FCPA-S4/400 400V	2CMA103410R1000		
		500		7	FCPA-S4/400 500V	2CMA103411R1000		
		690		5	FCPA-S4/400 690V	2CMA103412R1000		
		1000		1	FCPA-S4/400 1000V	2CMA103413R1000		
3L+N+PE								
5	400	230	50/60	9	FCPA-S5/400 230V	2CMA103414R1000	1	10.8
		400		6	FCPA-S5/400 400V	2CMA103415R1000		
		500		7	FCPA-S5/400 500V	2CMA103416R1000		
		690		5	FCPA-S5/400 690V	2CMA103417R1000		
		1000		1	FCPA-S5/400 1000V	2CMA103418R1000		





Socket outlet for panel mounting

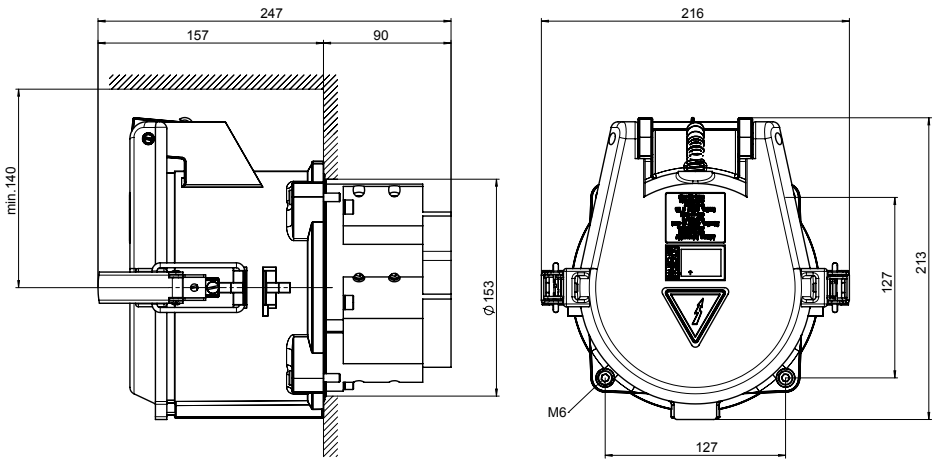
B-Line



FCP-S5/250 400V

IP67. Watertight
Aluminum housing. Designed for high temperature.

Terminals/ Poles	Ampere	Voltage	Frequency	Hour	Type	Order Code	Pkg qty	Weight pkg (1pce)
	A	V	Hz					kg
3L+PEN								
4	250	230	50/60	9	FCP-S4/250 230V	2CMA103359R1000	1	6.8
		400		6	FCP-S4/250 400V	2CMA103360R1000		
		500		7	FCP-S4/250 500V	2CMA103361R1000		
		690		5	FCP-S4/250 690V	2CMA103362R1000		
		1000		1	FCP-S4/250 1000V	2CMA103363R1000		
3L+N+PE								
5	250	230	50/60	9	FCP-S5/250 230V	2CMA103364R1000	1	7.3
		400		6	FCP-S5/250 400V	2CMA103365R1000		
		500		7	FCP-S5/250 500V	2CMA103366R1000		
		690		5	FCP-S5/250 690V	2CMA103367R1000		
		1000		1	FCP-S5/250 1000V	2CMA103368R1000		
3L+PEN								
4	400	230	50/60	9	FCP-S4/400 230V	2CMA103369R1000	1	6.8
		400		6	FCP-S4/400 400V	2CMA103370R1000		
		500		7	FCP-S4/400 500V	2CMA103371R1000		
		690		5	FCP-S4/400 690V	2CMA103372R1000		
		1000		1	FCP-S4/400 1000V	2CMA103373R1000		
3L+N+PE								
5	400	230	50/60	9	FCP-S5/400 230V	2CMA103374R1000	1	7.3
		400		6	FCP-S5/400 400V	2CMA103375R1000		
		500		7	FCP-S5/400 500V	2CMA103376R1000		
		690		5	FCP-S5/400 690V	2CMA103377R1000		
		1000		1	FCP-S5/400 1000V	2CMA103378R1000		



Connector units
with mechanical interlock, CUMI

To ensure maximum safety for users, we can offer special connector units.

Technical data	Unit	C-Line	B-Line
Rated current	A	200 250	250 400
Rated voltage	V	1000	1000
Rated frequency	Hz	50/60	50/60
Withstand voltage (1 Min/50 Hz)	V	4000	4000
Protection grade		IP55	IP55
Shock resistance		IK07	IK07
Ambient temperature	°C	-40/+70	-40/+70
Insulation resistance (Phase-phase and phase-earth)	MOhm	>500	>500
Comparative tracking index of the insert	CTI	>600	>600
Weight 4 poles (3L+PEN)	kg	25.1	45.6
Weight 5 poles (3L+N+PE)	kg	25.3	47.1
Connection bolts for cable shoes		M8	M10
Max cross section pilot cable, conductor (EN 60228 Class 1)	mm^2	4	4
Diameter of cable - normal other diameters on request	mm	20-70	20-70





Connector unit with mechanical interlock

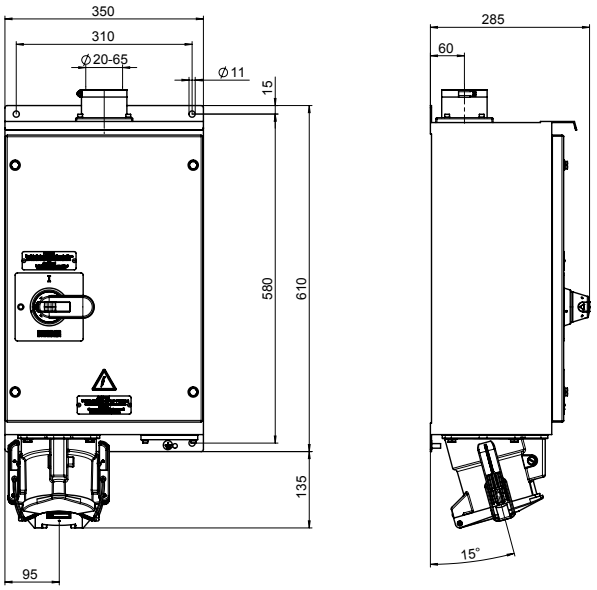
C-Line



CUMI-S5/200 400V

IP55
Steel housing

Terminals/ Poles	Ampere	Voltage	Frequency	Hour	Type	Order Code	Pkg qty	Weight pkg (1pce)
	A	V	Hz					kg
3L+PEN								
4	200	230	50/60	9	CUMI-S4/200 230V-9h	2CMA103459R1000	1	25.1
		400		6	CUMI-S4/200 400V-6h	2CMA103460R1000		
		500		7	CUMI-S4/200 500V-7h	2CMA103461R1000		
		690		5	CUMI-S4/200 690V-5h	2CMA103462R1000		
		1000		1	CUMI-S4/200 1000V-1h	2CMA103463R1000		
3L+N+PE								
5	200	230	50/60	9	CUMI-S5/200 230V-9h	2CMA103464R1000	1	25.3
		400		6	CUMI-S5/200 400V-6h	2CMA103465R1000		
		500		7	CUMI-S5/200 500V-7h	2CMA103466R1000		
		690		5	CUMI-S5/200 690V-5h	2CMA103467R1000		
		1000		1	CUMI-S5/200 1000V-1h	2CMA103468R1000		
3L+PEN								
4	250	230	50/60	9	CUMI-S4/250 230V-9h	2CMA103469R1000	1	25.1
		400		6	CUMI-S4/250 400V-6h	2CMA103470R1000		
		500		7	CUMI-S4/250 500V-7h	2CMA103471R1000		
		690		5	CUMI-S4/250 690V-5h	2CMA103472R1000		
		1000		1	CUMI-S4/250 1000V-1h	2CMA103473R1000		
3L+N+PE								
5	250	230	50/60	9	CUMI-S5/250 230V-9h	2CMA103474R1000	1	25.3
		400		6	CUMI-S5/250 400V-6h	2CMA103475R1000		
		500		7	CUMI-S5/250 500V-7h	2CMA103476R1000		
		690		5	CUMI-S5/250 690V-5h	2CMA103477R1000		
		1000		1	CUMI-S5/250 1000V-1h	2CMA103478R1000		



Connector unit with mechanical interlock

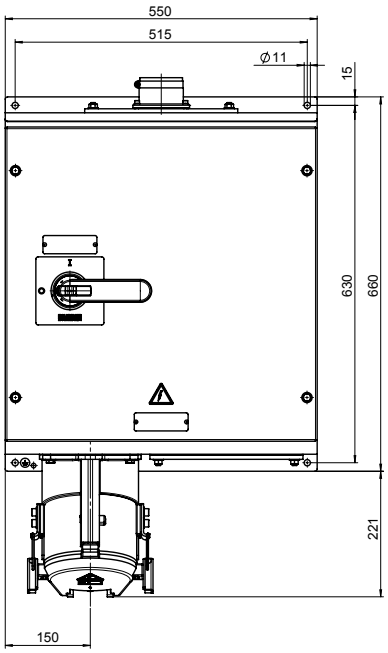
B-Line

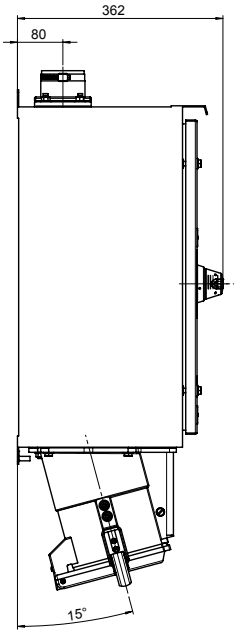


CUMI-S5/250 400V

IP55
Steel housing

Terminals/ Poles	Ampere	Voltage	Frequency	Hour	Type	Order Code	Pkg qty	Weight pkg (1pce)
	A	V	Hz					kg
3L+PEN								
4	250	230	50/60	9	CUMI-S4/250 230V-9h	2CMA103479R1000	1	45.6
		400		6	CUMI-S4/250 400V-6h	2CMA103480R1000		
		500		7	CUMI-S4/250 500V-7h	2CMA103481R1000		
		690		5	CUMI-S4/250 690V-5h	2CMA103482R1000		
		1000		1	CUMI-S4/250 1000V-1h	2CMA103483R1000		
3L+N+PE								
5	250	230	50/60	9	CUMI-S5/250 230V-9h	2CMA103484R1000	1	47.1
		400		6	CUMI-S5/250 400V-6h	2CMA103485R1000		
		500		7	CUMI-S5/250 500V-7h	2CMA103486R1000		
		690		5	CUMI-S5/250 690V-5h	2CMA103487R1000		
		1000		1	CUMI-S5/250 1000V-1h	2CMA103488R1000		
3L+PEN								
4	400	230	50/60	9	CUMI-S4/400 230V-9h	2CMA103489R1000	1	45.6
		400		6	CUMI-S4/400 400V-6h	2CMA103490R1000		
		500		7	CUMI-S4/400 500V-7h	2CMA103491R1000		
		690		5	CUMI-S4/400 690V-5h	2CMA103492R1000		
		1000		1	CUMI-S4/400 1000V-1h	2CMA103493R1000		
3L+N+PE								
5	400	230	50/60	9	CUMI-S5/400 230V-9h	2CMA103494R1000	1	47.1
		400		6	CUMI-S5/400 400V-6h	2CMA103495R1000		
		500		7	CUMI-S5/400 500V-7h	2CMA103496R1000		
		690		5	CUMI-S5/400 690V-5h	2CMA103497R1000		
		1000		1	CUMI-S5/400 1000V-1h	2CMA103498R1000		





Connector units
with block contactor, CUBC

To ensure maximum safety for users, we can offer special connector units.

Technical data	Unit	C-Line		B-Line	
Rated current	A	200	250	250	400
Rated voltage	V	1000		1000	
Rated frequency	Hz	50/60		50/60	
Withstand voltage (1 Min/50 Hz)	V	4000		4000	
Protection grade		IP55		IP55	
Shock resistance		IK07		IK07	
Ambient temperature	°C	-40/+70		-40/+70	
Insulation resistance (Phase-phase and phase-earth)	MOhm	>500		>500	
Comparative tracking index of the insert	CTI	>600		>600	
Weight 4 poles (3L+PEN)	kg	25.1		45.6	
Weight 5 poles (3L+N+PE)	kg	25.3		47.1	
Connection bolts for cable shoes		M8		M10	
Max cross section pilot cable, conductor (EN 60228 Class 1)	mm^2	4		4	
Diameter of cable - normal other diameters on request	mm	20-70		20-70	





Connector unit with block contactor

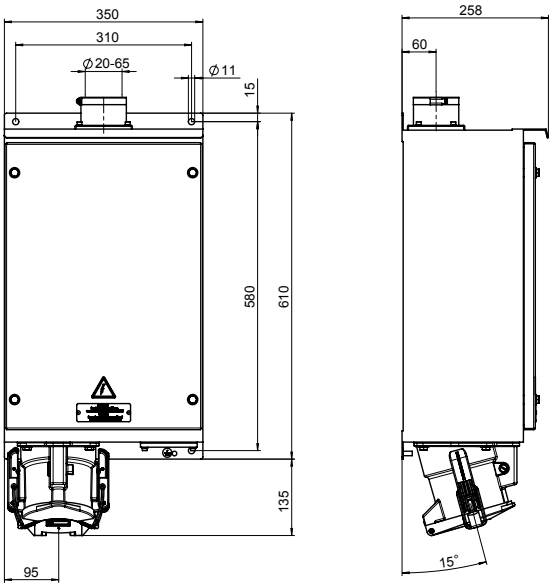
C-Line



CUBC-S5/200 400V

IP55
Steel housing

Terminals/ Poles	Ampere	Voltage	Frequency	Hour	Type	Order Code	Pkg qty	Weight pkg (1pce)
	A	V	Hz					kg
3L+PEN								
4	200	230	50/60	9	CUBC-S4/200 230V	2CMA103499R1000	1	25.1
		400		6	CUBC-S4/200 400V	2CMA103500R1000		
		500		7	CUBC-S4/200 500V	2CMA103501R1000		
		690		5	CUBC-S4/200 690V	2CMA103502R1000		
		1000		1	CUBC-S4/200 1000V	2CMA103503R1000		
3L+N+PE								
5	200	230	50/60	9	CUBC-S5/200 230V	2CMA103504R1000	1	25.3
		400		6	CUBC-S5/200 400V	2CMA103505R1000		
		500		7	CUBC-S5/200 500V	2CMA103506R1000		
		690		5	CUBC-S5/200 690V	2CMA103507R1000		
		1000		1	CUBC-S5/200 1000V	2CMA103508R1000		
3L+PEN								
4	250	230	50/60	9	CUBC-S4/250 230V	2CMA103509R1000	1	25.1
		400		6	CUBC-S4/250 400V	2CMA103510R1000		
		500		7	CUBC-S4/250 500V	2CMA103511R1000		
		690		5	CUBC-S4/250 690V	2CMA103512R1000		
		1000		1	CUBC-S4/250 1000V	2CMA103513R1000		
3L+N+PE								
5	250	230	50/60	9	CUMI-S5/250 230V	2CMA103514R1000	1	25.3
		400		6	CUMI-S5/250 400V	2CMA103515R1000		
		500		7	CUMI-S5/250 500V	2CMA103516R1000		
		690		5	CUMI-S5/250 690V	2CMA103517R1000		
		1000		1	CUMI-S5/250 1000V	2CMA103518R1000		



Connector unit with circuit breaker

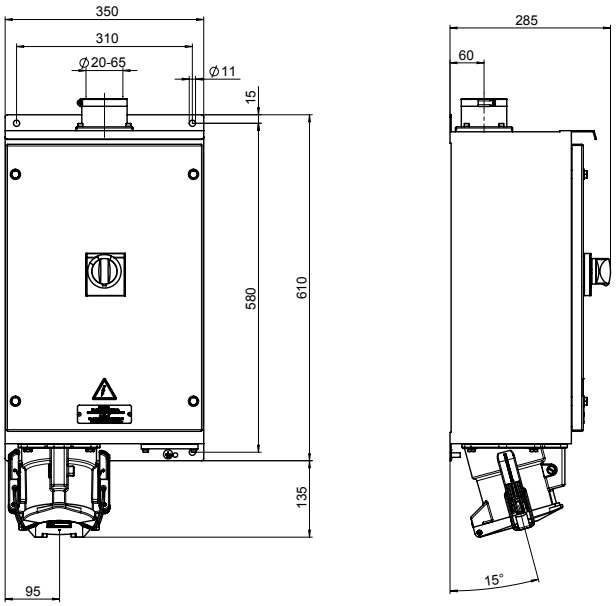
C-Line



CUCB-S5/200 400V

IP54
Steel housing

Terminals/ Poles	Ampere	Voltage	Frequency	Hour	Type	Order Code	Pkg qty	Weight pkg (1pce)
	A	V	Hz					kg
3L+PEN								
4	200	230	50/60	9	CUCB-S4/200 230V	2CMA103539R1000	1	25.1
		400		6	CUCB-S4/200 400V	2CMA103540R1000		
		500		7	CUCB-S4/200 500V	2CMA103541R1000		
		690		5	CUCB-S4/200 690V	2CMA103542R1000		
3L+N+PE								
5	200	230	50/60	9	CUCB-S5/200 230V	2CMA103543R1000	1	25.3
		400		6	CUCB-S5/200 400V	2CMA103544R1000		
		500		7	CUCB-S5/200 500V	2CMA103545R1000		
		690		5	CUCB-S5/200 690V	2CMA103546R1000		
3L+PEN								
4	250	230	50/60	9	CUCB-S4/250 230V	2CMA103547R1000	1	25.1
		400		6	CUCB-S4/250 400V	2CMA103548R1000		
		500		7	CUCB-S4/250 500V	2CMA103549R1000		
		690		5	CUCB-S4/250 690V	2CMA103550R1000		
3L+N+PE								
5	250	230	50/60	9	CUCB-S5/250 230V	2CMA103551R1000	1	25.3
		400		6	CUCB-S5/250 400V	2CMA103552R1000		
		500		7	CUCB-S5/250 500V	2CMA103553R1000		
		690		5	CUCB-S5/250 690V	2CMA103554R1000		



Connector unit with circuit breaker

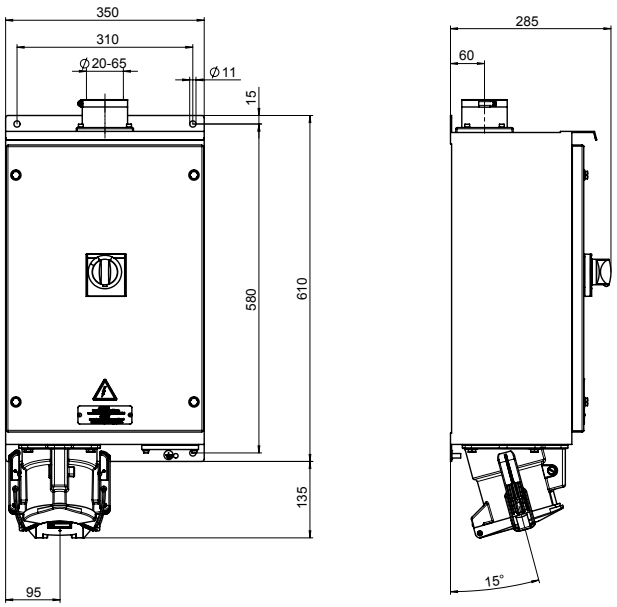
B-Line



CUCB-S5/250 400V

IP54
Steel housing

Terminals/ Poles	Ampere	Voltage	Frequency	Hour	Type	Order Code	Pkg qty	Weight pkg (1pce)
	A	V	Hz					kg
3L+PEN								
4	250	230	50/60	9	CUCB-S4/250 230V	2CMA103555R1000	1	45.6
		400		6	CUCB-S4/250 400V	2CMA103556R1000		
		500		7	CUCB-S4/250 500V	2CMA103557R1000		
		690		5	CUCB-S4/250 690V	2CMA103558R1000		
3L+N+PE								
5	250	230	50/60	9	CUCB-S5/250 230V	2CMA103559R1000	1	47.1
		400		6	CUCB-S5/250 400V	2CMA103560R1000		
		500		7	CUCB-S5/250 500V	2CMA103561R1000		
		690		5	CUCB-S5/250 690V	2CMA103562R1000		
3L+PEN								
4	400	230	50/60	9	CUCB-S4/400 230V	2CMA103563R1000	1	45.6
		400		6	CUCB-S4/400 400V	2CMA103564R1000		
		500		7	CUCB-S4/400 500V	2CMA103565R1000		
		690		5	CUCB-S4/400 690V	2CMA103566R1000		
3L+N+PE								
5	400	230	50/60	9	CUCB-S5/400 230V	2CMA103567R1000	1	47.1
		400		6	CUCB-S5/400 400V	2CMA103568R1000		
		500		7	CUCB-S5/400 500V	2CMA103569R1000		
		690		5	CUCB-S5/400 690V	2CMA103570R1000		



Industrial plugs and sockets
Outlet Units

Increased comfort and lower fuel consumption are two major benefits of engine and car heaters. ABB car heating systems also offer improved energy utilisation and lower electricity costs. Frequent use of the engine heater offers major environmental benefits.



Outlet Units

Complete units and enclosures



CW 200

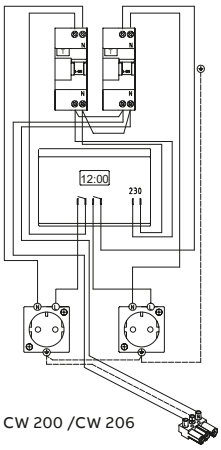
IP44
Standards: EN 60 439-1, -3 Connection: 5 x (2x16) mm²

	Type	Order Code	Pkg qty	Weight pkg (1pce) kg
Complete units				
2xSchuko,2x RCBO,DS2016kA,1P+N,A,C10,30mA, Electronic clock	CW 200	2CMA177283R1000	1	5.6
2xSchuko,2x RCBO,DS2016kA,1P+N,A,C6,30mA, Electronic clock	CW 206	2CMA177449R1000	1	5.6

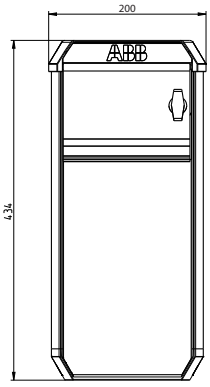
	Type	Order Code	Pkg qty	Weight pkg (1pce) kg
Enclosures				
Terminal and quick connection incl.	CWL 00 (1400mm)	2CMA177756R1000	1	21
Terminal and quick connection incl.	CWA1 (310 mm)	2CMA177358R1000	1	3.7
Terminal and quick connection incl.	CWFT (434mm)	2CMA104320R1000	1	4.0



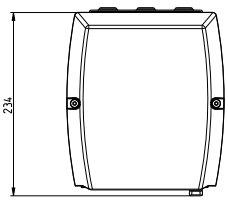
CWL 00



CW 200 /CW 206



CWFT

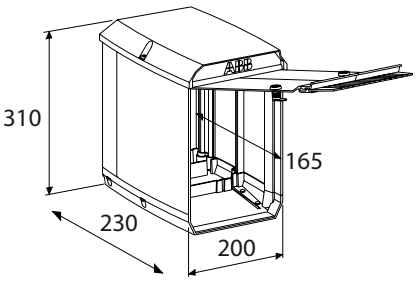




CWL 00 open



CWA1/ CW 200 / CW 206



CWA1 / CW 200 / CW 206

Outlet units
Inserts and Parts


CWC1


CWC4


CWB9 / CWB10


CWB22 / CWB23


CWE1


CWF 5x16


Schuko socket


Lock with keys

IP44
Standards: EN 60 439-1, -3

	Type	Order Code	Pkg qty	Weight pkg (1pce) kg
Flange				
For pole	CWC1 FLANGE GRAY 2xFL13	2CMA177392R1000	1	0.5
	CWC4 WALL MOUNT FL13	2CMA177391R1000		
Insert suitable for enclosure CWA1, CWL, CWFT				
	CWB9 INSERT	2CMA177373R1000	1	1.9
	CWB10 INSERT	2CMA177374R1000		
	CWB22 INSERT	2CMA177386R1000		
	CWB23 INSERT	2CMA177387R1000		
Spare parts				
Electronic clock	CWE1 ELECTRONIC CLOCK	2CMA177472R1000	1	0.3
Terminals	CWF5x16	2CMA177265R1000		
Outlet 230V	SCHUKO OUTLET BVU	2CMA177490R1000		
Lock	LOCK WITH KEYS	2CMA177433R1000		

Junction Boxes

IP67

Impact resistant junction boxes made of aluminiun alloy and painted gray. The boxes come with lid, gasket and screws. They are equipped with 4-pole terminal blocks, earth screws and complete cable glands.



LD5

Junction Boxes

IP67



LD2



LD7



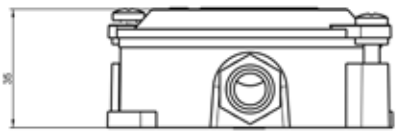
LD17

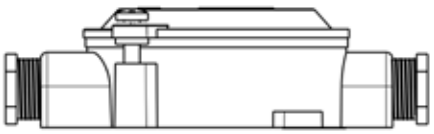


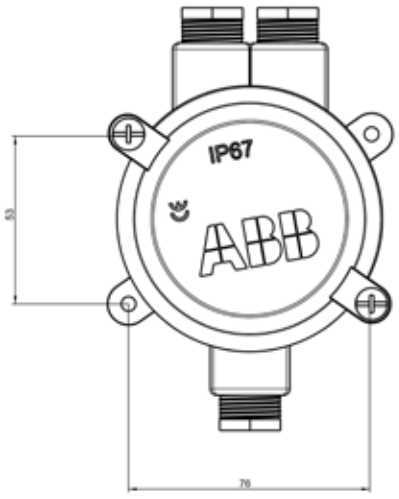
LDS-4

Impact resistant junction boxes made of aluminiun alloy and painted gray. The boxes come with lid, gasket and screws. They are equipped with 4-pole terminal blocks, earth screws and complete cable glands. 500V
LD max. conductor cross section 2.5 mm^2. Conduit PR 18,6
LDS max. conductor cross section 4 mm^2. Conduit PR 22,5

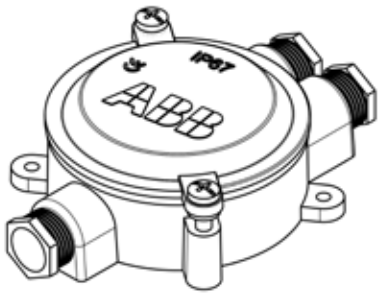
Number of Conduits	Height mm	Conduits Up/Down	Conduits Left/Right	Type	Order Code	Pkg qty	Weight pkg (1pce) kg
2	35	1/1	0/0	LD2	2CMA136530R1000	5	0.21
3	35	1/1	0/1	LD4	2CMA136531R1000		
3	35	2/1	0/0	LD5	2CMA136532R1000		
5	35	2/2	1/0	LD7	2CMA136534R1000		
4	35	2/2	0/0	LD10	2CMA136535R1000		
6	35	2/2	1/1	LD11	2CMA136536R1000		
5	35	2/1	1/1	LD17	2CMA136539R1000		
4	35	1/3	0/0	LD20	2CMA136540R1000		
2	42	1/1	0/0	LDS-2	2CMA136541R1000	5	0.24
3	42	1/1	0/1	LDS-4	2CMA136542R1000		
3	42	2/1	0/0	LDS-5	2CMA136543R1000		
4	42	2/2	0/0	LDS-10	2CMA136544R1000		
5	42	2/1	1/1	LDS-17	2CMA136545R1000		







LD5



Notes

Electrical installation solutions for buildings

Light switches and socket outlets

Index

carat®	1
Busch-dynasty®	2
pure stainless steel	3
solo®	4
Busch-axcent®	5
future® linear	6
basic55®	7
Sky Niessen & Skymoon	8
Impressivo	9
Levit®	10
Swing®L	11
Zenit	12
Mylos®	13
Chiara	14
Unno	15
IVIE	16
Millenium	17
Concept bs	18
Inora	19
Ocean	20
Movement detectors	21

Light switches and socket outlets
A piece of design in your interior.

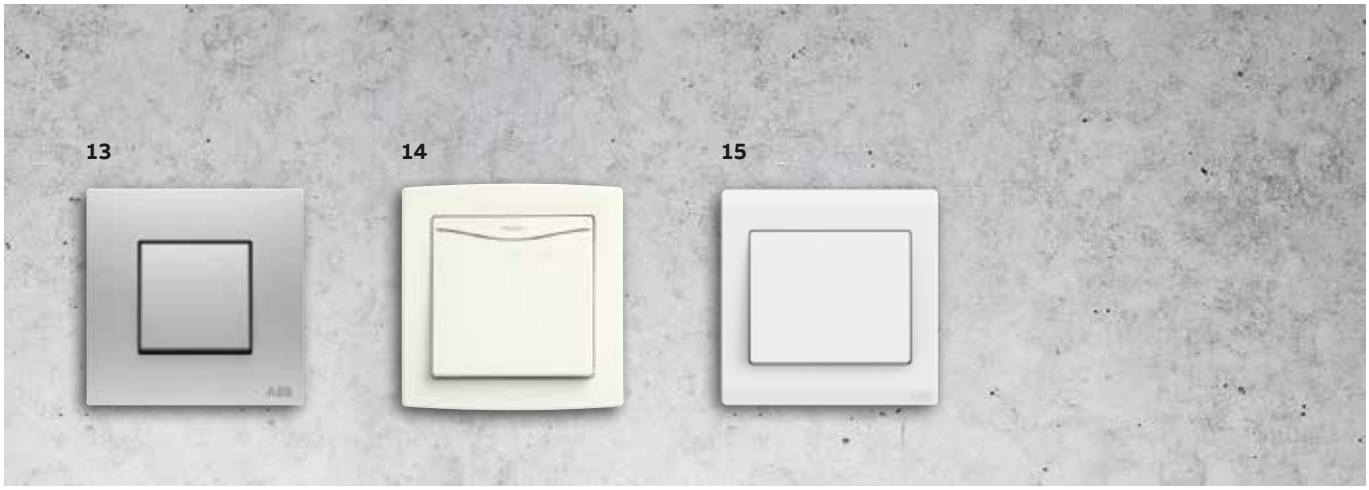
Discover the wide range of designs, colours, finishes and functions and find the best solutions with innovative technology. Let modern light switches highlight the individual design of your living space.

VDE-standard

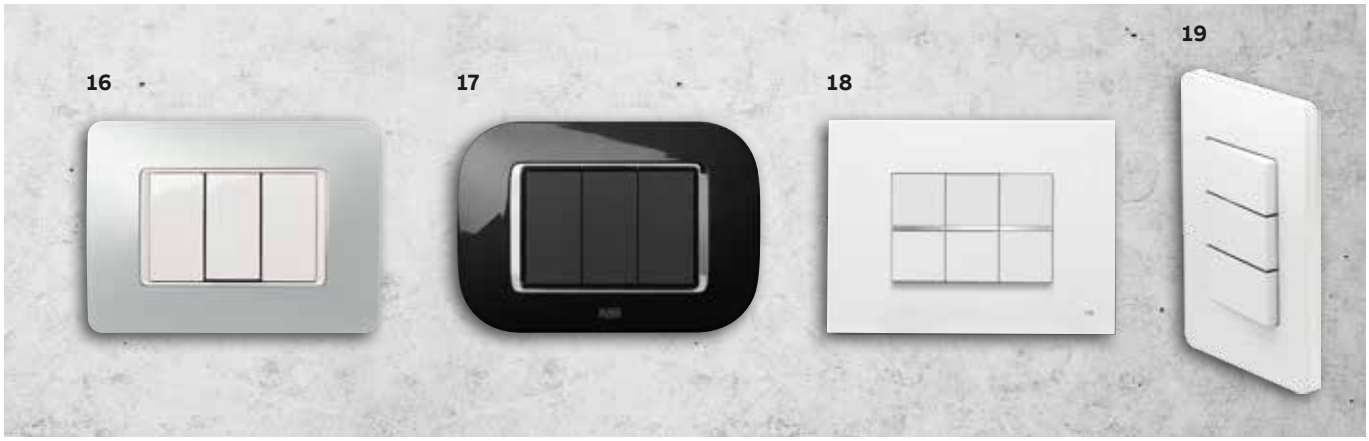


Light switches and socket outlets
A piece of design in your interior.

British standard



IT-standard



01 **carat®**
02 **Busch-dynasty®**
03 **pure stainless steel**
04 **solo®**
05 **Busch-axcent®**
06 **Busch-axcent® pur**
07 **future® linear**
08 **basic55®**
09 **Sky Niessen**
10 **Impressivo**
11 **Swing®L**
12 **Zenit**
13 **Millenium**
14 **Concept bs**
15 **Inora**
16 **Chiara**
16 **Mylos®**
17 **Zenit**
18 **Unno**

For design range availability on the local market contact your local sales team.

carat®
Everyday indulgence.

Extraordinary and distinct design, of the highest quality. Each piece becomes a unique object of any interior. It attracts attention and that is the point. Solid frames made from bronze, polished steel or glossy glass, show immediately their real value and an exquisite owner's taste. The aesthetics, together with innovative functions make every day luxurious.



01 black matt / porcelain anthracite
02 ivory white / bronze
03 studio white / glass black
04 anthracite / stainless steel
05 studio white / chrome
06 ivory white / gold
07 studio white / white glass

Materials
UV-resistant, free of PVC and halogen.
Frame: genuine materials.

carat®

Selected functions.

01 

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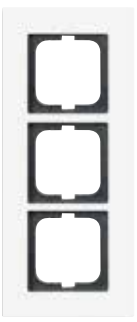
21 

01 Rocker switch 1gang
02 Rocker switch 2gang
03 Busch Universal Rotary Dimmer
04 Touch dimmer
05 Busch-Comfort switch
06 Busch-steplight®
07 Busch-Protector® SCHUKO® socket outlet with overvoltage protection
08 SCHUKO® USB socket outlet, 2x USB A
09 Socket outlet with earthing pin
10 Switched socket outlet BS standard
11 Blind switch with rotary knob
12 Busch-Blind control switch with semi-cylindrical lock
13 Busch-Blind
14 Comfort timer
15 Room thermostat with display
16 Busch-Infoline® alarm insert
17 Busch-Radio DAB+
18 Antenna socket for radio/TV/satellite
19 Universal data connection box
20 Stereo loudspeaker connecting box
21 KNX sensor, for more KNX products see part 12 of the catalogue - Intelligent Building Solutions

01 

02 

03 

04 

05 

1 to 4gang cover frame for horizontal and vertical installation.
01 Side view, 11 mm x 107 mm
02 107 mm x 107 mm
03 107 mm x 178 mm
04 107 mm x 249 mm
05 107 mm x 320 mm

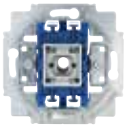
For more information about light switch ranges visit ABB global web sites.

carat®

Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	1gang 2way		
	2000/6 US-500	2CKA001012A2198	10/100
	2gang 1way		
	2000/5 US-500	2CKA001012A1150	10/100
	DP, 1gang 2way [2]		
	2000/6/2 US	2CKA001012A0954	10
	1gang		
	2000/7 US-500	2CKA001012A2199	10/100
	DP, 1gang 1way		
	2000/2 US-500	2CKA001012A2196	10/100
	SP, 1gang 1way switch		
	2000/1 US-500	2CKA001012A2059	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] With screw-type terminals. Non-illuminable.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	Switch-off and two-way circuit 16 A [2]		
	2400/6 US-500	2CKA001012A2232	10/100
	2gang switch 16 A		
	2400/5 US-500	2CKA001012A2234	10
	1gang intermediate 16 A		
	2400/7 US-500	2CKA001012A2236	10

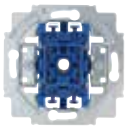
[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** **2gang 2way** With screwless terminals. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	2000/6/6US-101-500	2CKA001011A0928	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** **Changeover/changeover circuit 16 A** With screwless terminals. Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2400/6/6US-101-500	2CKA001022A0663	10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1] [2]** **DP, 1gang 1way** For switching high loads. Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2000/2 US-101-500	2CKA001012A2193	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Also for switching SCHUKO® socket outlets.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1] [2]** **3-pole, 1gang 1way switch** Rated voltage: 400 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2000/3 US	2CKA001011A0816	10

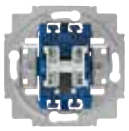
[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] With screw-type terminals. Non-illuminable.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** With neon lamp. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	1gang 2way [2]		
	2000/6 USGL-500	2CKA001012A2194	10/100
	2gang 1way		
	2000/5 USGL	2CKA001012A1135	10

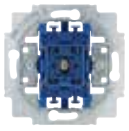
[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Replacement lamps 8360, 8362, and 8363 and LED inserts.

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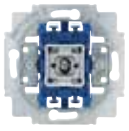
Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism, control [1])** **2gang switch with N-clamp 16 A** with LED, Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2400/5 USK-500	2CKA001012A2238	10

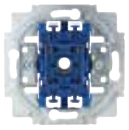
[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism, control [1]) [2]) [3])** With neon lamp. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	1gang 2way with N-terminal		
	2000/6 USK-500	2CKA001022A0659	10/100
	DP, 1gang 1way		
	2000/2 UK	2CKA001022A0656	10

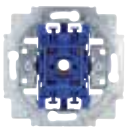
[1]) With 1 mA neon lamp.
[2]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[3]) Illuminable by using lamps 8360, 8362, 8363, 8365, 8366, and 8367 and LED inserts.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism, control [1]) [2]) [3])** **Switch-off and two-way circuit with N-clamp 16 A** With neon lamp. Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2400/6 USK-500	2CKA001022A0661	10

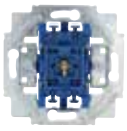
[1]) With 1 mA neon lamp.
[2]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[3]) Illuminable by using lamps 8360, 8362, 8363, 8365, 8366, and 8367 and LED inserts.

Product	Article-No.	Order-No.	Pack/Qty
	**Push-switch mechanism [1])** **SP, with normally open contact (operating current)** With N terminal. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 US-500	2CKA001413A0574	10/100

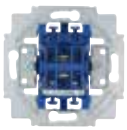
[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Push-switch mechanism [1])** **SP, with normally open contact (operating current)** With 2 independent signalling contacts. Rated voltage: 250 V~ Inputs: 1 Outputs: 1 Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 US-201	2CKA001413A0483	10

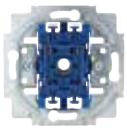
[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Push-switch mechanism [1]) [2]) [3])** **SP, with normally open contact (operating current)** With illumination. With N terminal. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 USGL-500	2CKA001413A1106	10/100

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2]) Replacement lamps 8360, 8362, and 8363 and LED inserts.
[3]) For relay and touch dimmer applications.

Product	Article-No.	Order-No.	Pack/Qty
	**Push-switch mechanism [1])** With one input terminal and 2 actuating covers. Rated voltage: 250 V~ Inputs: 1 Outputs: 2x Normally open contact Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 US-205-500	2CKA001413A1105	10/100

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Push-switch mechanism [1])** **SP, 1gang 2way** Can be wired for normally open contacts (stand-by current) or normally closed contacts (operating current). With N terminal. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 US-206-500	2CKA001413A1104	10/100

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

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Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	Rocker For flush-mounted switch 1g1w, 1g2w, intermediate, push switch. Protection class (Device): IP 20		
anthracite	**1786-81-500**	2CKA001751A3079	10/100
ivory white	**1786-82-500**	2CKA001751A3083	10/100
studio white	**1786-84-500**	2CKA001751A3074	10/100
studio white, matt [1])	**1786-884-500**	2CKA001751A3089	10/100
black matt [1])	**1786-885-500**	2CKA001751A3094	10/100

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	Rocker For flush-mounted switch 2g 1w, 2g push switch. Protection class (Device): IP 20		
anthracite	**1785-81**	2CKA001751A2930	10
ivory white	**1785-82**	2CKA001751A2744	10/100
studio white	**1785-84-500**	2CKA001751A3076	10/100
studio white, matt [1])	**1785-884**	2CKA001751A3024	10/100
black matt [1])	**1785-885**	2CKA001751A3038	10/100

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker** As a cover for flush-mounted control 2gang switch. Protection class (Device): IP 20		
anthracite	**1785 K-81-500**	2CKA001751A3122	10
ivory white	**1785 K-82-500**	2CKA001751A3124	10
studio white	**1785 K-84-500**	2CKA001751A3128	10
studio white, matt [1])	**1785 K-884-500**	2CKA001751A3135	10
black matt [1])	**1785 K-885-500**	2CKA001751A3137	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker** **with small red spherical cap** As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way. Protection class (Device): IP 20		
anthracite	**1789-81**	2CKA001751A2928	10
ivory white	**1789-82**	2CKA001751A2813	10
studio white	**1789-84-500**	2CKA001751A3091	10/100
studio white, matt [1])	**1789-884**	2CKA001751A3033	10
black matt [1])	**1789-885**	2CKA001751A3047	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker** **with small transparent lens** As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way. Protection class (Device): IP 20		
anthracite	**1789 N-81**	2CKA001751A3147	10/100
ivory white	**1789 N-82**	2CKA001751A3148	10/100
studio white	**1789 N-84-500**	2CKA001751A3151	10/100
studio white, matt [1])	**1789 N-884**	2CKA001751A3153	10/100
black matt [1])	**1789 N-885**	2CKA001751A3154	10/100

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** **with small transparent lens** With >Plug< icon. As cover for flush-mounted switch 1g1w DP and 3pole with neon lens and marking "I O" As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way. Protection class (Device): IP 20		
anthracite	**1789 ST-81**	2CKA001751A3157	10/100
ivory white	**1789 ST-82**	2CKA001751A3158	10/100
studio white	**1789 ST-84-500**	2CKA001751A3161	10/100
studio white, matt [1])	**1789 ST-884**	2CKA001751A3163	10/100
black matt [1])	**1789 ST-885**	2CKA001751A3164	10/100

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** With >Light< icon. For flush-mounted switch 1g1w, 1g2w, intermediate, push switch. Protection class (Device): IP 20		
anthracite	**2520 LI-81**	2CKA001751A3186	10/100
ivory white	**2520 LI-82**	2CKA001751A3187	10/100
studio white	**2520 LI-84-500**	2CKA001751A3190	10/100
studio white, matt [1])	**2520 LI-884**	2CKA001751A3192	10/100
black matt [1])	**2520 LI-885**	2CKA001751A3193	10/100

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** With >Key< icon. For flush-mounted push switch. Protection class (Device): IP 20		
anthracite	**2520 TR-81**	2CKA001751A3196	10/100
ivory white	**2520 TR-82**	2CKA001751A3197	10/100
studio white	**2520 TR-84**	2CKA001751A3199	10/100
studio white, matt [1])	**2520 TR-884**	2CKA001751A3201	10/100
black matt [1])	**2520 TR-885**	2CKA001751A3202	10/100

[1]) Surface painted.

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Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** With >Bell< icon. For flush-mounted push switch. Protection class (Device): IP 20		
anthracite	**2520 KI-81**	2CKA001751A3176	10/100
ivory white	**2520 KI-82**	2CKA001751A3177	10/100
studio white	**2520 KI-84-500**	2CKA001751A3180	10/100
studio white, matt [1])	**2520 KI-884**	2CKA001751A3182	10/100
black matt [1])	**2520 KI-885**	2CKA001751A3183	10/100

[1]) Surface painted.

	**Switch rocker with marking** **with small transparent lens** With >Light< icon. As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way. Protection class (Device): IP 20		
anthracite	**1789 LI-81**	2CKA001751A2931	10
ivory white	**1789 LI-82**	2CKA001751A2745	10
studio white	**1789 LI-84-500**	2CKA001751A3084	10/100
black matt [1])	**1789 LI-885**	2CKA001751A3045	10
studio white, matt [1])	**1789 LI-884**	2CKA001751A3031	10

[1]) Surface painted.

	**Switch rocker with marking** **with small transparent lens** With >Key< icon. For flush-mounted push switch. Protection class (Device): IP 20		
anthracite	**1789 TR-81**	2CKA001751A2933	10
ivory white	**1789 TR-82**	2CKA001751A2747	10
studio white	**1789 TR-84**	2CKA001751A2755	10
studio white, matt [1])	**1789 TR-884**	2CKA001751A3032	10
black matt [1])	**1789 TR-885**	2CKA001751A3046	10

[1]) Surface painted.

	**Switch rocker with marking** **with small transparent lens** With >Bell< icon. For flush-mounted push switch. Protection class (Device): IP 20		
anthracite	**1789 KI-81**	2CKA001751A2932	10
ivory white	**1789 KI-82**	2CKA001751A2746	10
studio white	**1789 KI-84**	2CKA001751A2754	10
studio white, matt [1])	**1789 KI-884**	2CKA001751A3030	10
black matt [1])	**1789 KI-885**	2CKA001751A3044	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker [1]) [2])** **with labelling field** With >Bell< icon. With pilot lamp for uniform illumination of the labelling field. For flush-mounted push switch. Size of labelling field: 59.7 x 11.7 mm. Protection class (Device): IP 20		
anthracite	**1764 NLI/KI-81**	2CKA001731A3998	10/100
ivory white	**1764 NLI/KI-82**	2CKA001731A3999	10/100
studio white	**1764 NLI/KI-84-500**	2CKA001731A4002	10/100
studio white, matt [3])	**1764 NLI/KI-884**	2CKA001731A4004	10/100
black matt [3])	**1764 NLI/KI-885**	2CKA001731A4005	10/100

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Illumination using neon lamp 8353 or incandescent lamp 8344-1 and LED inserts.
[3]) Surface painted.

	**Rocker [1]) [2])** **with labelling field** With pilot lamp for uniform illumination of the labelling field. For flush-mounted switch 1g1w, 1g2w, intermediate, push switch. Size of labelling field: 59.7 x 11.7 mm. Protection class (Device): IP 20		
anthracite	**1764 NLI-81**	2CKA001731A1552	10
ivory white	**1764 NLI-82**	2CKA001731A1876	10
studio white	**1764 NLI-84**	2CKA001731A1877	10/100
studio white, matt [3])	**1764 NLI-884**	2CKA001731A1985	10
black matt [3])	**1764 NLI-885**	2CKA001731A1982	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Illumination using neon lamp 8353 or incandescent lamp 8344-1 and LED inserts.
[3]) Surface painted.

	**Switch rocker with marking** **with small red spherical cap** With imprint >0< and >I<. As cover for 2-pole or 3-pole flush-mounted on-off switch and 2-pole control on-off switch. Protection class (Device): IP 20		
anthracite	**1788-81**	2CKA001751A2927	10
ivory white	**1788-82**	2CKA001751A2742	10
studio white	**1788-84**	2CKA001751A2750	10/100
studio white, matt [1])	**1788-884**	2CKA001751A3028	10
black matt [1])	**1788-885**	2CKA001751A3042	10

[1]) Surface painted.

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Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking with small red spherical cap** With >Heating< imprint. As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way. As cover for 2-pole or 3-pole flush-mounted on-off switch and 2-pole control on-off switch. Protection class (Device): IP 20		
anthracite	**1789 H-81**	2CKA001751A2929	10
ivory white	**1789 H-82**	2CKA001751A2743	10
studio white	**1789 H-84**	2CKA001751A2751	10
studio white, matt [1])	**1789 H-884**	2CKA001751A3029	10
black matt [1])	**1789 H-885**	2CKA001751A3043	10

[1]) Surface painted.

	**Card switch 10 A [1])** **SP, with normally open contact (operating current)** Illuminable. With N terminal. Rated voltage: 250 V~ Rated current: 10 A Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20IEC60669-1, British Standard EN 60669-1		
	2025 U	2CKA001012A1713	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
delivery form:	Adapter plate APBS to be ordered separate.		

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** For flush-mounted switch 1g1w, 1g2w, intermediate, push switch. DO NOT DISTURB Protection class (Device): IP 20		
anthracite	**1786/11-81**	2CKA001751A3207	10
ivory white	**1786/11-82**	2CKA001751A2997	10
studio white	**1786/11-84**	2CKA001751A2998	10
studio white, matt [1])	**1786/11-884**	2CKA001751A3026	10
black matt [1])	**1786/11-885**	2CKA001751A3040	10

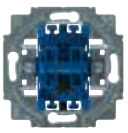
[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** For flush-mounted switch 2g 1w, 2g push switch. DO NOT DISTURB - MAKE UP ROOM Protection class (Device): IP 20		
anthracite	**1785/11-81**	2CKA001751A3205	10
ivory white	**1785/11-82**	2CKA001751A2991	10
studio white	**1785/11-84**	2CKA001751A2992	10
studio white, matt [1])	**1785/11-884**	2CKA001751A3023	10
black matt [1])	**1785/11-885**	2CKA001751A3037	10

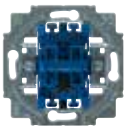
[1]) Surface painted.

	**Switch rocker with marking** As cover for flush-mounted rocker control switch insert, DND/MUR. DO NOT DISTURB - MAKE UP ROOM Protection class (Device): IP 20		
anthracite	**1785/11 K-81**	2CKA001751A3212	10
ivory white	**1785/11 K-82**	2CKA001751A3214	10
studio white	**1785/11 K-84**	2CKA001751A3209	10
studio white, matt [1])	**1785/11 K-884**	2CKA001751A3211	10
black matt [1])	**1785/11 K-885**	2CKA001751A3213	10

[1]) Surface painted.

	**Rocker switch insert DND/MUR [1])** with LED - Rated voltage: 250 V~ Rated current: 10 AX - Suitable for: LEDi / CFLi Rated power: 100 W - Protection class (Device): IP 20 IEC 60669-1		
	2028 UK	2CKA001012A2240	10/100

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Rocker switch insert DND/MUR [1])** with LED, Rated voltage: 24 V - Rated current: 6 A Protection class (Device): IP 20 IEC 60669-1		
	2028/12 UK	2CKA001012A2241	10/100

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Bell push-switch DND/MUR 230 V [1])** with LED, Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 - IEC 60669-1		
anthracite	**2029 UC-81**	2CKA001751A3167	1
ivory	**2029 UC-82**	2CKA001751A3168	1
studio white	**2029 UC-84**	2CKA001751A3170	1
studio white, matt [2])	**2029 UC-884**	2CKA001751A3172	1
black matt [2])	**2029 UC-885**	2CKA001751A3173	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2]) Surface painted.

carat®

Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Bell push-switch DND/MUR 24 V [1]** with LED, Rated voltage: 24 V Rated current: 6 A Protection class (Device): IP 20 IEC 60669-1		
anthracite	**2029/12 UC-81**		1
ivory	**2029/12 UC-82**	2CKA001751A3236	1
studio white	**2029/12 UC-84**	2CKA001751A3231	1
studio white, matt [2]	**2029/12 UC-884**	2CKA001751A3233	1
black matt [2]	**2029/12 UC-885**	2CKA001751A3235	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For card switch. For insert 2025 U. Suitable for cards sized 54 x 86 mm. The inner part of the cover plate is made of light-conducting plastic, so that the card slot is illuminated. Protection class (Device): IP 20		
anthracite	**1792-81**	2CKA001710A3639	10
ivory white	**1792-82**	2CKA001710A3640	10
studio white	**1792-84**	2CKA001710A3641	10
studio white, matt [1]	**1792-884**	2CKA001710A3928	10
black matt [1]	**1792-885**	2CKA001710A3905	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Pull switch [1]** **SP, with normally open contact (operating current)** With 2-metre pull cord, red handle, and red neon indicator. Rated voltage: 250 V~ Rated current: 10 A		
	2020/01 US-101	2CKA001413A1112	10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Pull switch [1]** **SP, break contact** With 2-metre pull cord, red handle, and red neon indicator. Rated voltage: 250 V~ Rated current: 10 A		
	2020/10 US-101	2CKA001413A1111	10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	Rocker **open for red pull switch neon indicator** For pull switch 2020/xx US. Protection class (Device): IP 20		
anthracite	**1720-81**	2CKA001731A1914	10
ivory white	**1720-82**	2CKA001731A1915	10
studio white	**1720-84**	2CKA001731A1916	10
studio white, matt [1]	**1720-884**	2CKA001731A1979	10
black matt [1]	**1720-885**	2CKA001731A1981	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Three-step rotary switch [1] [2]** **SP, with zero position** With zero position. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
	2710 U	2CKA001101A0918	1/10

[1] Install only in conjunction with wall boxes ø 60 mm.
[2] Not to be mounted in SM box 1701-xxx, 1702-xxx, 1703-xxx.

Product	Article-No.	Order-No.	Pack/Qty
	**Three-step rotary switch [1] [2]** **SP, without zero position** Without zero position. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
	2710/1 U	2CKA001101A0919	1/10

[1] Install only in conjunction with wall boxes ø 60 mm.
[2] Not to be mounted in SM box 1701-xxx, 1702-xxx, 1703-xxx.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **with rotary control, with marking** As cover for flush mounted three-step rotary switch. With zero position. For insert 2710 U. Protection class (Device): IP 20		
anthracite	**2542 DR/01-81**	2CKA001710A3644	10
ivory white	**2542 DR/01-82**	2CKA001710A3645	10
studio white	**2542 DR/01-84**	2CKA001710A3646	10
studio white, matt [1]	**2542 DR/01-884**	2CKA001710A3890	10
black matt [1]	**2542 DR/01-885**	2CKA001710A3913	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **with rotary control, with marking** As cover for flush mounted three-step rotary switch. Without zero position. For insert 2710/1 U. Protection class (Device): IP 20		
anthracite	**2542 DR/02-81**	2CKA001710A3649	10
ivory white	**2542 DR/02-82**	2CKA001710A3650	10
studio white	**2542 DR/02-84**	2CKA001710A3651	10
studio white, matt [1]	**2542 DR/02-884**	2CKA001710A3891	10
black matt [1]	**2542 DR/02-885**	2CKA001710A3914	10

[1] Surface painted.

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Rocker switches / push switches

Dimmers

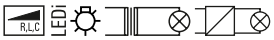
Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1])** **for pull switch 2610/6 UC-xx, 2610/6 UJ-xx** With screw-type terminal Protection class (Device): IP 20		
anthracite	**1796-81**	2CKA001753A0308	10
ivory white	**1796-82**	2CKA001753A0309	10
studio white	**1796-84**	2CKA001753A0311	10
studio white, matt [2])	**1796-884**	2CKA001753A0313	10
black matt [2])	**1796-885**	2CKA001753A0314	10

[1]) Exchanging the available cover/cover plate.
[2]) Surface painted.

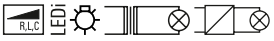
Product	Article-No.	Order-No.	Pack/Qty
	**Comprising Friends of Hue smart switch insert** Comprising 2gang rocker 6736 FoH-8xx for Friends of Hue smart switch. Consisting of 1gang future® linear cover frames. Comprising fixing plate and intermediate ring. Smarter light switches for wireless remote control of Philips Hue lamps For switching and dimming of Philips Hue lamps. For saving, calling up and dimming of a maximum of 2 individual light scenes. Without battery and maintenance-free due to >Energy harvesting<. Can be mounted freely in the room with the enclosed adhesive tape and fixing plate. Requires Philips Hue Bridge (2nd generation square construction type) and Philips Hue app (Version 3.2 or higher). Maximum safety of function by means of Zigbee-Mesh technology.		
	6716 UJ-84-500	2CKA006710A0011	1
	6716 UJ-885-500	2CKA006710A0018	1
	**Friends of Hue smart switch insert** **Wall-mounted transmitter, 2 channel** For Friends of Hue smart switch Rocker 6736 FoH-8xx. Smarter light switches for wireless remote control of Philips Hue lamps For switching and dimming of Philips Hue lamps. For saving, calling up and dimming of a maximum of 2 individual light scenes. Without battery and maintenance-free due to >Energy harvesting<. Maximum safety of function by means of Zigbee-Mesh technology. Requires Philips Hue Bridge (2nd generation; square construction type) and Philips Hue app (Version 3.2 or higher). Combinable with the Busch-Jaeger switch ranges carat®, Busch-dynasty®, pure stainless steel, solo®, Busch-axcent® and future® linear. Can be mounted freely in the room with the enclosed adhesive tape and fixing plate. Including fixing plate for mounting on smooth walls or on switch boxes.		
	6716 U-500	2CKA006710A0014	1
	Rocker For Friends of Hue smart switch insert 6716 U-500. Combinable with the Busch-Jaeger switch ranges carat®, Busch-dynasty®, pure stainless steel, solo®, Busch-axcent® and future® linear.		
anthracite	**6736 FoH-81**	2CKA006730A0133	1
ivory white	**6736 FoH-82**	2CKA006730A0134	1
studio white	**6736 FoH-84**	2CKA006730A0136	1
studio white, matt [1])	**6736 FoH-884**	2CKA006730A0140	1
black matt [1])	**6736 FoH-885**	2CKA006730A0141	1

[1]) Surface painted.

carat®
Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-rotary dimmer** [1] [2] [3] [4] [5] [6] [7] [8] [9] **Flush-mounted, LED, 2-100 W** With rotary control, two-way switch and soft-catch. 2-wire connection (neutral conductor not required) Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. Via mode switch adjustable between leading edge control and trailing edge control. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. With adjustable minimum brightness. Without cover plate. Rated voltage: 230 V~, + 10% / - 10% Rated frequency: 50 Hz/60 Hz Nominal power: 2 - 100 W/VA (retrofit LED loads). Nominal power: 10 - 250 W/VA (non-LED loads). Protection class (Device): IP 20 Temperature range (Device): 0 °C to 35 °CIEC 60669-2-1, British Standard EN 60669-2-1 		
	6523 U-102-500	2CKA006512A0335	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] In case of electronic transformers, 5 % transformer losses.
[4] Also applicable for 1gang 2way installations.
[5] Provided with terminal for net disconnection devices.
[6] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[7] Recommendation: Please use loads and types of one producer.
[8] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[9] A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-rotary dimmer** [1] [2] [3] [4] [5] [6] [7] [8] [9] **UP, LED, 2-400 W** Very small installation depth: < 20 mm Without claws. With rotary control, two-way switch and soft-catch. 2-wire connection (neutral conductor not required) Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. With manually adjustable operating mode: trailing / leading edge control. With adjustable minimum/maximum brightness. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. Without cover plate. Rated voltage: 230 V~, + 10% / - 10% Rated frequency: 50 Hz/60 Hz Nominal power: 2 - 100 W/VA (leading edge control) Nominal power: 2 - 400 W/VA (trailing edge control) Protection class (Device): IP 20 Temperature range (Device): 0 °C to 35 °CIEC 60669-2-1, British Standard EN 60669-2-1 		
	6523 UR-103-500	2CKA006512A0345	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] In case of electronic transformers, 5 % transformer losses.
[4] Also applicable for 1gang 2way installations.
[5] Provided with terminal for net disconnection devices.
[6] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[7] Recommendation: Please use loads and types of one producer.
[8] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[9] A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

carat®
Dimmers

Product	Article-No.	Order-No.	Pack/Qty



END OF LIFE

Busch-rotary dimmer [1] [2] [3] [4]
flush mounted, R, 60-600 W
With rotary control, 2way On-Off switching and soft-catch.
Leading Edge control.
For incandescent lamps and 230 V tungsten halogen lamps.
With adjustable minimum brightness.
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 60 - 600 W
IEC 60669-2-1, British Standard EN 60669-2-1



	2250 U-500	2CKA006515A0848	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] Also applicable for 1gang 2way installations.
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Provided with terminal for net disconnection devices.



END OF LIFE

Busch-rotary dimmer [1] [2] [3] [4] [5]
flush mounted, RL, 20-500 W
With rotary control, 2way On-Off switching and soft-catch.
Leading Edge control.
For incandescent lamps, 230 V tungsten halogen lamps and low-volt halogen lamps with conventional transformer.
With adjustable minimum brightness.
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 20 - 500 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1



	2247 U-500	2CKA006512A0302	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] Provided with terminal for net disconnection devices.
[4] Also applicable for 1gang 2way installations.
[5] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty



Busch-rotary dimmer [1] [2] [3] [4] [5] [6]
UP, RL, 200-700 W
With rotary control, 2way On-Off switching and soft-catch.
Leading Edge control.
For incandescent lamps, 230 V tungsten halogen lamps and low-volt halogen lamps with conventional transformer.
Short-circuit-proof, overload-protected.
With adjustable minimum brightness.
Without cover plate.
Without claws.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 200 - 700 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1



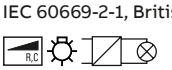
	6520 U-500	2CKA006520A0227	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] Provided with terminal for net disconnection devices.
[4] Also applicable for 1gang 2way installations.
[5] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[6] Should be mounted in a seperate wallbox.



END OF LIFE

Busch-rotary dimmer [1] [2] [3] [4] [5] [6]
flush mounted, RC, 40-420 W
With rotary control, soft-catch and with trailing edge control.
For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with electronic transformers.
Low-noise, short-circuit-proof, overload-protected.
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 40 - 420 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1



	6513 U-102-500	2CKA006513A0586	1/10

[1] Not suitable with conventional transformers.
[2] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[3] In case of electronic transformers, 5 % transformer losses.
[4] Provided with terminal for net disconnection devices.
[5] Also applicable for 1gang 2way installations.
[6] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

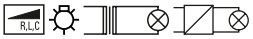
carat®
Dimmers

Product	Article-No.	Order-No.	Pack/Qty



END OF LIFE

Busch-rotary dimmer [1] [2] [3] [4] [5]
flush mounted, RLC, 60-420 W
with soft-catch
With intelligence for universal operation.
For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers.
Short-circuit-proof, overload-protected.
Capacity expansion via output-side, parallel connectable load line with a power module 6594 U up to 735 W/VA possible.
Operation via rotary-type remote control 6592 U possible, Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Rated power: 60 - 420 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1



6591 U-101-500	2CKA006513A0588	1/10

[1] Illuminable with neon lamp 3855. Neon lamp included in delivery with cover plate.
[2] In case of electronic transformers, 5 % transformer losses.
[3] In the case of conventional transformers, take ~20% transformer loss into account.
[4] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[5] Cannot be combined with a 2way switch.



END OF LIFE

Busch-rotary dimmer, extension [1] [2]
flush mounted
for connection to 6591 U-101,
To be used with Busch-Dimmer®, MDRC 6583.
with soft-catch
A maximum of 5 multi-way extensions can be connected to a 6591U-101,
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz



6592 U-500	2CKA006513A0590	1

[1] Control elements 2115-xxx and 6540-xxx.
[2] Required for illuminating the N-connection control element.

Product	Article-No.	Order-No.	Pack/Qty



Busch-rotary dimmer [1] [2] [3] [4]
flush mounted, 1-10V
With rotary control.
For controlling ballast units for fluorescent lamps with control output 1-10 V DC, control current max. 50 mA DC.
For LED control via control gears
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Rated power: 700 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1

2112 U-101-500	2CKA006599A2873	1/10

[1] Non-illuminable.
[2] Use cover plates 2115 J-.../2115-.../6540-... .
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Making-current limiters have to be provided in case of too high making currents.



Busch-rotary dimmer [1]
Flush-mounted, DALI, tunable white
For DALI broadcast service (via central telegram).
For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface.
With rotary control and ON/OFF push operation.
Fool proved.
For changing the colour temperature of >tunable white< lamps, which meet DALI Standard IEC 62386-209 (Device Type 8).
Colour temperature can then be set between 2,700 K - 6,500 K.
Brightness power-on level and backround brightness level adjustable, buffered.
With integrated LED illumination for orientation.
Color of orientation light adjustable (18 presets and OFF).
Up to 5 potentiometers are connectable in parallel.
Max. current consumption: 15 mA.
Not suitable for combining with other DALI sensors or central units of other manufacturers.
For the generation of the DALI voltage a power supply according to IEC 62386 is required; e.g. from Tridonic, Philips, Helvar or BJE article no. 2116/11 U.
Max. DALI-cable length: 300 m (1,5 - 2,5 mm²).
Without cover plate.
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °C

2116 U	2CKA006599A3025	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

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Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**2116/11 U**	2CKA006599A3026	1

Busch-rotary dimmer [1])
Flush-mounted, DALI, with internal power supply, tunable white
For DALI broadcast service (via central telegram).
With integrated DALI power adaptor.
For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface.
With rotary control and ON/OFF push operation.
For changing the colour temperature of >tunable white< lamps, which meet DALI Standard IEC 62386-209 (Device Type 8).
Colour temperature can then be set between 2,700 K - 6,500 K.
With electronic short-circuit protection.
With electronic overload protection.
Brightness power-on level and backround brightness level adjustable, buffered.
With integrated LED illumination for orientation.
Color of orientation light adjustable (18 presets and OFF).
Up to 5 potentiometers are connectable in parallel.
Up to 3 potentiometers are connectable in parallel in active mode.
Not suitable for combining with other DALI sensors or central units of other manufacturers.
DALI-voltage: 15,5 V=
Rated current: max. 75 mA
Power consumption: < 2,5 W
Number of DALI-units:
37 in case of one active power-potentiometer
in case of three active power-potentiometer in parallel connection: 111
Active mode: the potentiometer is supporting the necessary control circuit for other DALI-devices.
Passive mode: the potentiometer is suitable as additional operation point.
Max. DALI-cable length: 300 m (1,5 - 2,5 mm²).
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °C

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**2117 U-500**	2CKA006599A2987	1

Busch-rotary dimmer [1])
flush mounted, DALI
For DALI broadcast service (via central telegram).
For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface.
With rotary control and ON/OFF push operation.
Fool proved.
Brightness power-on level and backround brightness level adjustable, buffered.
With integrated LED illumination for orientation.
Color of orientation light adjustable (18 presets and OFF).
Up to 5 potentiometers are connectable in parallel.
Max. current consumption: 15 mA.
Not suitable for combining with other DALI sensors or central units of other manufacturers.
An additional DALI power supply is needed, e.g. by Tridonic, Philips, Helvar or 2117/11 U.
Max. DALI-cable length: 300 m (1,5 - 2,5 mm²).
Without cover plate.
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °C

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**2117/11 U-500**	2CKA006599A2988	1

Busch-rotary dimmer [1])
flush mounted, DALI, with internal power supply
For DALI broadcast service (via central telegram).
With integrated DALI power adaptor.
For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface.
With rotary control and ON/OFF push operation.
With electronic short-circuit protection.
With electronic overload protection.
Brightness power-on level and backround brightness level adjustable, buffered.
With integrated LED illumination for orientation.
Color of orientation light adjustable (18 presets and OFF).
Up to 5 potentiometers are connectable in parallel.
Up to 3 potentiometers are connectable in parallel in active mode.
Not suitable for combining with other DALI sensors or central units of other manufacturers.
DALI-voltage: 15,5 V=
Rated current: max. 75 mA
Power consumption: < 2,5 W
Number of DALI-units:
37 in case of one active power-potentiometer
in case of three active power-potentiometer in parallel connection: 111
Active mode: the potentiometer is supporting the necessary control circuit for other DALI-devices.
Passive mode: the potentiometer is suitable as additional operation point.
Max. DALI-cable length: 300 m (1,5 - 2,5 mm²).
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °C

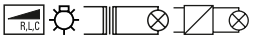
[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

carat®
Dimmers

Product	Article-No.	Order-No.	Pack/Qty



Busch-touch dimmer [1] [2] [3] [4]
flush mounted, RLC, 60-420 W
With light-level memory and intelligence for universal operation.
Selectable Soft-ON/OFF function and memory function.
Capacity expansion via output-side, parallel connectable load line with a power module 6594 U up to 735 W/VA possible.
For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers.
Short-circuit-proof, overload-protected.
With touch control.
Operation also possible via conventional push buttons (2020 US, 2021/6 UK).
Without control cover.
For control cover with control lamp 6543-xxx-10x.
For Busch-Remote control IR control cover 6066-xxx-10x.
For comfort timer control element 6455-101-500.
For Busch-Watchdog 180 flush-mounted Sensor Standard 6810-21x-101.
For Busch-Watchdog 180 flush-mounted sensor Comfort II 6800-xxx-104 and 6800-xxx-104M.
For Busch-Watchdog Presence tech 6813-xxx-101 und 6813/11-xxx.
Combinable with Busch-Watchdog extension insert 6805 U.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 60 - 420 W
Rated power: 60 - 420 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1



	6593 U-500	2CKA006590A0171	1/10

[1] In the case of conventional transformers, take ~20% transformer loss into account.
[2] In case of electronic transformers, 5 % transformer losses.
[3] In conjunction with 6800-xxx-104 (M) a Soft Off can be adjusted.
[4] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)



Busch-Dimmer®, capacity booster [1]
flush mounted, RLC, 200-315 W
The control is effected by a Busch-Universal master dimmer 6593 U or Busch-Universal rotary dimmer 6591U-101
For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers.
Can only be installed in conjunction with a cover plate 2114-xxx and 6541-xxx.
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 200 - 315 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1



	6594 U-500	2CKA006590A0172	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty



Cover plate [1] with rotary knob, with indication lamp
Elevated knob.
With transparent luminous ring.
For Busch-Dimmer®.
For inserts
2112 U-101/2247 U/2250 U/6513 U-102/6517 U-10x/ 6519 U/6520 U/6523 U(R)(10x) /6591 U-10x and 6592 U.

anthracite	**6540-81-102**	2CKA006599A2950	10
ivory white	**6540-82-102**	2CKA006599A2951	10/100
studio white	**6540-84-102-500**	2CKA006599A3009	10/100
studio white, matt [2]	**6540-884-102**	2CKA006599A2961	10/100
black matt [2]	**6540-885-102**	2CKA006599A2966	10/100

[1] Replacement neon lamp, Art. No. 3855.
[2] Surface painted.



Control element [1] [2] [3] with neon lamp
Can be combined with LED dimmer 6524 U, and 6526 U, Busch-Universal touch-type controller 6550 U-10x, Busch-Memory touch dimmer 6560 U-101, Busch-Universal-Dimmer® 6593 U, Busch-Universal relay insert 6401 U-10x, Busch-Universal 2gang insert 6402 U.

anthracite	**6543-81-101**	2CKA006599A2881	1/10
ivory white	**6543-82-101**	2CKA006599A2831	1/10
studio white	**6543-84-101-500**	2CKA006599A3010	1/10
studio white, matt [4]	**6543-884-101**	2CKA006599A2963	1/10
black matt [4]	**6543-885-101**	2CKA006599A2968	1/10

[1] Compatible with previous type 6543-xxx.
[2] Touch-type Controller 6550 U-xxx non-illuminable.
[3] Replacement neon lamp 3857.
[4] Surface painted.

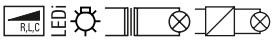


Cover plate
for cooling element
For Busch-Universal master dimmer power module 6594 U.
For KNX room temperature controller object 6109/08.

anthracite	**6541-81**	2CKA006599A2882	10
ivory white	**6541-82**	2CKA006599A2832	10
studio white	**6541-84**	2CKA006599A2835	10
studio white, matt [1]	**6541-884**	2CKA006599A2962	10
black matt [1]	**6541-885**	2CKA006599A2967	10

[1] Surface painted.

carat®
Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**LED dimmer insert flex, 1gang [1] [2] [3] [4] [5] [6] FM, LED, 3-240 VA** 2-wire connection (neutral conductor not required).Neutral conductor optionally connectable (recommended for the connection of low loads < 10 W/VA). Touch dimmer for switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. With manually adjustable operating mode: trailing / leading edge control. With adjustable minimum brightness. With light-level memory and minimum brightness memory. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. Without control cover. For control element flex, 1gang, 64711. For control element flex, 2gang, 64721. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Rated power: 3-240 VA (LEDi). Rated voltage: 230 V~, +10 % / -10 %. Rated frequency: 50 Hz. Inputs: 1. Outputs: 1x dimming channel. Suitable for: 230 V LEDi, typical (leading edge control). Rated power: 3 - 100 VA. Suitable for: 230 V LEDi, typical (trailing edge control). Rated power: 3 - 240 W. Suitable for: 230 V incandescent lamps, 230 V halogen lamps and low-voltage halogen lamps with conventional transformers or Busch Electronic Transformer. Rated power: 10 - 240 VA.Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm. Mounting depth: 25 mmIEC 60669-2-1, British Standard EN 60669-2-1 		
	64851 U-500	2CKA006500A0013	1

[1] In the case of conventional transformers, take ~20% transformer loss into account.
[2] In case of electronic transformers, 5 % transformer losses.
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Recommendation: Please use loads and types of one producer.
[5] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[6] A liability on the part of Buscah-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

	**Control element, 1 gang flex** Tapping control element, 1gang. Compatible with all free@home flex inserts. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64711-500	2CKA006400A0099	1

	**Control element, 1 gang, flex wireless** Tapping control element, 1gang. For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62711-WL-500	2CKA006200A0281	1

Product	Article-No.	Order-No.	Pack/Qty
	**Flex control element, 2 gang flex** Tapping control element, 2gang For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64721-500	2CKA006400A0101	1

	**Control element, 2 gang, flex wireless** Tapping control element, 2gang For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62721-WL-500	2CKA006200A0283	1

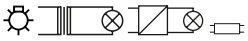
	**Rocker** **1gang, with “Dimmer” icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
anthracite	SRD-1-81	2CKA006220A0149	1
ivory white	SRD-1-82	2CKA006220A0520	1
studio white	SRD-1-84	2CKA006220A0151	1
studiowhite matt	SRD-1-884	2CKA006220A0605	1

	**Rocker** **2gang left, with “Dimmer” icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
anthracite	SRD-2-L-81	2CKA006220A0164	1
ivory white	SRD-2-L-82	2CKA006220A0525	1
studio white	SRD-2-L-84	2CKA006220A0166	1
studiowhite matt	SRD-2-L-884	2CKA006220A0610	1

	**Rocker** **2gang right, with “Scene” icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
anthracite	SRS-2-R-81	2CKA006220A0173	1
ivory white	SRS-2-R-82	2CKA006220A0528	1
studio white	SRS-2-R-84	2CKA006220A0175	1
studiowhite matt	SRS-2-R-884	2CKA006220A0613	1

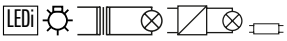
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Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Proximity switch** 3 wire connection (neutral conductor required). Relay insert with proximity sensor. For contactless ON/OFF switching of electric loads, e.g. lights. For switching incandescent lamps, 230 V tungsten halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are actuated via transformers. Switches when detecting an approach at < approx. 5 cm. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V incandescent lamps, 230 V halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are operated via transformers. Rated current: 10 AX Rated power: 2300 W/VA Temperature range (Device): -25 °C to 55 °CBritish Standard EN 60669-2-1 		
	6406 U	2CKA006400A0034	1

	Cover plate **Proximity switch** For proximity switch 6406 U.		
anthracite	**6476-81**	2CKA006470A0007	1/10
ivory white	**6476-82**	2CKA006470A0003	10
studio white	**6476-84**	2CKA006470A0004	10
studio white, matt [1])	**6476-884**	2CKA006470A0010	10
black matt [1])	**6476-885**	2CKA006470A0011	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Relay insert flex, 1gang [1])** 3 wire connection (neutral conductor required). For switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Comfort switch flex control element 64765-... . For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with extension insert, 64891 U. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 1 Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V- LEDi, typical. Rated power: 300 VA Suitable for: 230 V incandescent lamps/230 V halogen lamps Rated power: 2300 W Suitable for: Low voltage halogen lamps that are operated via transformers. Rated power: 2300 VA Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm Mounting depth: 25 mm 		
	64811 U-500	2CKA006800A3042	1/10

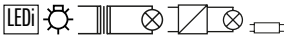
[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

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Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**64821 U-500**	2CKA006800A3045	1

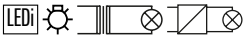
Relay insert flex, 2gang [1])
3 wire connection (neutral conductor required).
For switching lighting systems.
For switching two independent load circuits.
For controlling light and ventilation systems.
Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units.
Operation also possible via conventional push buttons (2020 US, 2021/6 UK).
Without control cover.
For control element flex, 1gang, wireless, 62711-WL.
For control element flex, 2gang, wireless, 62721-WL.
For Busch-Comfort switch flex control element 64765-... .
For Busch-Watchdog 180 flex sensors 6476x-... .
For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL.
Combinable with extension insert, 64891 U.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Inputs: 2
Outputs: 2x Normally open contact, potential-bound
Suitable for: 230 V- LEDi, typical.
Rated power: 300 VA
Suitable for: 230 V incandescent lamps/230 V halogen lamps
Rated power: 1840 W
Suitable for: Low voltage halogen lamps that are operated via transformers.
Rated power: 1150 VA
Temperature range (Device): -25 °C to 55 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm
Mounting depth: 25 mm



[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**64814 U-500**	2CKA006800A3048	1

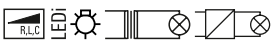
e-contact insert flex, 1gang [1]) [2])
2-wire connection (neutral conductor not required)
Neutral conductor optionally connectable (recommended for the connection of low loads < 10 W/VA).
For switching lighting systems.
Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units.
Operation also possible via conventional push buttons (2020 US, 2021/6 UK).
Without control cover.
For control element flex, 1gang, wireless, 62711-WL.
For control element flex, 2gang, wireless, 62721-WL.
For Busch-Watchdog 180 flex sensors 6476x-... .
For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL.
Combinable with extension insert, 64891 U.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Inputs: 1
Outputs: 1x Normally open contact, potential-bound
Suitable for: 230 V- LEDi, typical.
Rated power: 3 - 240 VA
Suitable for: 230 V incandescent lamps/230 V halogen lamps
Rated power: 10 - 240 W
Suitable for: Low voltage halogen lamps that are operated via transformers.
Rated power: 3 - 240 VA
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm
Mounting depth: 25 mm



[1]) Use only dimmable high-voltage LEDs.
[2]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

carat®

Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**LED dimmer insert flex, 1gang [1] [2] [3] [4] [5] [6]** **FM, LED, 3-240 VA** 2-wire connection (neutral conductor not required) Neutral conductor optionally connectable (recommended for the connection of low loads < 10 W/VA). Touch dimmer for switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. With manually adjustable operating mode: trailing / leading edge control. With adjustable minimum brightness. With light-level memory and minimum brightness memory. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. Without control cover. For control element flex, 1gang, 64711. For control element flex, 2gang, 64721. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Rated power: 3-240 VA (LEDi) Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 1 Outputs: 1x dimming channel Suitable for: 230 V LEDi, typical (leading edge control) Rated power: 3 - 100 VA Suitable for:230 V LEDi, typical (trailing edge control) Rated power: 3 - 240 W Suitable for: 230 V incandescent lamps, 230 V halogen lamps and low-voltage halogen lamps with conventional transformers or Busch Electronic Transformer. Rated power: 10 - 240 VA Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm Mounting depth: 25 mmIEC 60669-2-1, British Standard EN 60669-2-1 		
	64851 U-500	2CKA006500A0013	1

[1] In the case of conventional transformers, take ~20% transformer loss into account.
[2] In case of electronic transformers, 5 % transformer losses.
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Recommendation: Please use loads and types of one producer.
[5] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[6] A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

Product	Article-No.	Order-No.	Pack/Qty
	**Extension insert flex [1]** 3 wire connection (neutral conductor required). For the extension of the Busch-Comfort switch or presence detector installations. For group control of flex inserts via extension unit communication. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with all flex inserts. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Control/Signal outputs: 1, electronic output, potential-bound Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm Mounting depth: 25 mm		
	64891 U-500	2CKA006800A3051	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	Comfort switch flex sensor Movement detector push-button switch combination. For switching lighting systems that depend on brightness and movement. Push switch function possible at all times. Extension of the detection range by means of master/slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. Adjustable operating mode: automatic mode, automatic (motion-controlled) switch-on and switch-off. Adjustable operating mode: semiautomatic, manual switch-on, automatic (timer and movement-controlled) switch-off. Adjustable operating mode: automatic mode, automatic switch-on, manual switch-off. With continuous light/continuous Off function. Adjusting elements on rear side. Surveillance density: 9 sectors with 28 switching segments. Switch-off delay: 1 to 10 min., adjustable. Compatible with all free@home flexTronics inserts. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Please order the respective flush-mounted insert separately. The range specifications refer only to an ambient temperature of 21°C.		
	64765-81-500	2CKA006800A2883	1
	64765-82-500	2CKA006800A2885	1
	64765-84-500	2CKA006800A2889	1
	64765-884-500	2CKA006800A2893	1
	64765-885-500	2CKA006800A2895	1

carat®

Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flex, basic sensor [1] [2] with select-lens** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Compatible with all free@home flex inserts. Adjusting elements on rear side. Extension of the detection range by means of master/slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. With detection display in test mode. Surveillance density: 14 sectors with 56 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 22 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Detection range: frontal: 12 m, lateral: 12 m, Mounting height: 1.1 m Detection angle: 180 ° Brightness limit value: 5 Lux - 500 Lux Up to daytime operation Mounting height: 0.8 m - 1.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 35 mm		
anthracite	**64761-81-500**	2CKA006800A2921	1
ivory white	**64761-82-500**	2CKA006800A2923	1
studio white	**64761-84-500**	2CKA006800A2927	1
studio white, matt [3]	**64761-884-500**	2CKA006800A2931	1
black matt [3]	**64761-885-500**	2CKA006800A2933	1

[1] Please order the respective flush-mounted insert separately.
[2] The range specifications refer only to an ambient temperature of 21°C.
[3] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flex, comfort sensor [1] [2] with select-lens** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Push switch function possible at all times. In combination with dimmer insert flex: dimming function of lighting and selectable light value storage. With enabling of pre-warning of switch-off for stairwell operation. Compatible with all free@home flex inserts. Adjusting elements on rear side. Extension of the detection range by means of master/slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. With continuous light/continuous Off function. With detection display in test mode. Surveillance density: 14 sectors with 56 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 22 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Detection range: frontal: 12 m, lateral: 12 m, Mounting height: 1.1 m Detection angle: 180 ° Brightness limit value: 5 Lux - 500 Lux Up to daytime operation Mounting height: 0.8 m - 1.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 35 mm		
anthracite	**64762-81-500**	2CKA006800A2958	1
ivory white	**64762-82-500**	2CKA006800A2960	1
studio white	**64762-84-500**	2CKA006800A2964	1
studio white matt [3]	**64762-884-500**	2CKA006800A2968	1
black matt [3]	**64762-885-500**	2CKA006800A2970	1

[1] Please order the respective flush-mounted insert separately.
[2] The range specifications refer only to an ambient temperature of 21°C.
[3] Surface painted.

carat®

Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flex, comfort sensor [1] [2] with multi-lens** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Push switch function possible at all times. For detection down to the floor. For detection in stairwells. With 4 detection levels. In combination with dimmer insert flex: dimming function of lighting and selectable light value storage. With enabling of pre-warning of switch-off for stairwell operation. Compatible with all free@home flex inserts. Adjusting elements on rear side. Multi-lens: suitable also for mounting heights of 2.20 m. Extension of the detection range by means of master/ slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. With continuous light/continuous Off function. With detection display in test mode. Surveillance density: 54 sectors with 224 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 31 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Detection range: frontal: 8 m, lateral: 7 m, Mounting height: 1.1 m Detection range 2: frontal: 8 m, lateral: 8 m, Mounting height: 2.2 m Detection angle: 180 ° Brightness limit value: 5 Lux - 500 Lux Up to daytime operation Mounting height: 0.8 m - 1.2 m alternative: 2.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 45 mm		
anthracite	**64764-81-500**	2CKA006800A2995	1
ivory white	**64764-82-500**	2CKA006800A2997	1
studio white	**64764-84-500**	2CKA006800A3001	1
studio white matt [3]	**64764-884-500**	2CKA006800A3005	1
black matt [3]	**64764-885-500**	2CKA006800A3007	1

[1] Please order the respective flush-mounted insert separately.
[2] The range specifications refer only to an ambient temperature of 21°C.
[3] Surface painted.

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Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Key Switch Insert [1] [2] [3]** **breaking circuit, 1-pole** For profile semi-cylindrical lock. In switched-on and switched-off status the key can be pulled out in the central position, respectively. Delivered without cylindrical lock. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20IEC60669-1, British Standard EN 60669-1		
	2733 USL-101	2CKA001101A0914	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		
delivery form:	Adapter plate APBS to be ordered separate.		

[1] For installation on British Standard wallboxes please use adapter plate APBS (6599-0-2813). (Depth of box 60 mm.)
[2] Use the cylindrical lock according to the enclosed drawing.
[3] See profile semi-cylindrical lock.

	**Blind switch insert [1] [2]** **SP, switch** With interlock. Rated voltage: 250 V~ Rated current: 10 AX Protection class (Device): IP 20IEC60669-1, British Standard EN 60669-1		
	2000/4 US-500	2CKA001012A2197	10/100
	2020/4 US-500	2CKA001413A1103	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] These blind switches/push buttons safely prevent a switch-over of the running direction being carried out too quickly.

	**Blind switch insert [1] [2]** With rotary knob/switch and push switch. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1, British Standard EN 60669-1		
	DP [3]		
	2712 U	2CKA001101A0534	10
	SP, N, E		
	2713 U	2CKA001101A0542	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		
delivery form:	Adapter plate APBS to be ordered separate.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Blind switches/push switches prevents fast change over between operating directions.
[3] Also suitable for controlling direct voltage drives.

Product	Article-No.	Order-No.	Pack/Qty
	**Blind switch insert [1] [2]** With rotary knob/push button. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC60669-1, British Standard EN 60669-1		
	DP [3]		
	2722 U	2CKA001101A0559	10
	SP, N, E		
	2723 U	2CKA001101A0567	10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Blind switches/push switches prevents fast change over between operating directions.
[3] Also suitable for controlling direct voltage drives.

	**Blind switch/push-switch [1] [2] [3] [4]** For profile semi-cylindrical lock/switch and push-switch. Delivered without cylindrical lock. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC60669-1, British Standard EN 60669-1		
	DP [5]		
	2712 USL-101	2CKA001101A0872	10
	SP, N, E		
	2713 USL-101	2CKA001101A0880	10

[1] For installation on British Standard wallboxes please use adapter plate APBS (6599-0-2813). (Depth of box 60 mm.)
[2] Blind switches/push switches prevents fast change over between operating directions.
[3] Use the cylindrical lock according to the enclosed drawing.
[4] See semi-cylindrical lock.
[5] Also suitable for controlling direct voltage drives.

	**Blind switch insert [1] [2] [3] [4]** For profile semi-cylindrical lock/push-button. Delivered without cylindrical lock. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 British Standard EN 60669-1, IEC60669-1		
	DP [5]		
	2722 USL-101	2CKA001101A0898	10
	SP, N, E		
	2723 USL-101	2CKA001101A0906	10

[1] For installation on British Standard wallboxes please use adapter plate APBS (6599-0-2813). (Depth of box 60 mm.)
[2] Blind switches/push switches prevents fast change over between operating directions.
[3] Use the cylindrical lock according to the enclosed drawing.
[4] See semi-cylindrical lock.
[5] Also suitable for controlling direct voltage drives.

carat®
Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**DIN profile-semi cylindrical lock** Acc. to German Standard DIN 18252. Total length 40 mm for blind switches and push switches For inserts 2712/2713/2722/2723/2733 USL-101 and 2712/2733 SLW-5x. Protection class (Device): IP 20		
	different lock mechanism, with 3 keys		
	0520 PZ-VS	2CKA000470A0013	1/100
	lock mechanism, with 3 keys		
	0521 PZ-GS	2CKA000470A0021	1/100
	**Blind compact timer** Suitable for blind and roller blind drives with mechanical or electronic limit switch shut-off. Without extension unit input. Running time: 3 min N-busbar connection is required. For manual and time-controlled switching of blinds and roller blinds. Memory function for the simple storage of switching times. The controlled devices can be manually operated at any time. Simple setting via display with with segment display and background illumination. Factory pre-set switching times, individual adaptations are possible. 2 switching times per day can be freely adjusted for each day of the week. Automatic switchover from summer time to winter time (switch-off function). Switching times and programs are safely stored in the event of a mains power failure. Power reserve for time and date > 10 years. Simple toggling between manual/automatic/vacation modes. See the associated cover plates 6435-xx. Programming possible only with control element attached and energized. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 2x Normally open contact Rated current: 3 A, cos ϕ 0.5 Rated power: 690 VA Temperature range (Device): 0 °C to 45 °C		
	6422 U-500	2CKA006410A0410	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**Basic blind insert** [1] [2] **2-wire blind insert** Suitable for blind and roller blind drives with mechanical or electronic limit switch shut-off. Suitable for operation without neutral conductor. Without an extension input. For control cover 6430-xx-xxx. For standard timer control element 6456-101. Running time: 3 min Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 2x Normally open contact Rated current: 3 A, cos ϕ 0.5 Rated power: 690 VA Temperature range (Device): 0 °C to 35 °C		
	6418 U-500	2CKA006410A0376	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] N-conductor connection required for operation with control cover 6430-7x, illuminated.
[2] N-conductor connection may be required for operation with blind and roller blind drives with electronic limit switch shut-off. If no N-conductor is available, capacitor set 6498 can be used.

	**Busch-Blind control II switch insert** [1] Suitable for blind, roller blind and awning drives with mechanical or electronic limit switch shut-off. With two 230 V multi-way input terminals (Up/Down) for group control. With operating mode switch for the following modes: normal, louvre, base station, position. With party function (disables the local control unit) in combination with Busch-Blind control II control cover 6430-xx-xxx, 6066-xx-xxx. Wind alarm, cleaning functions can be accommodated via extension input. For control cover 6430-xx-xxx. For IR control element 6066-xx-xxx. For comfort timer control element 6455-101-500. Running time: 3 min Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 2x Normally open contact Rated current: 3 A, cos ϕ 0.5 Rated power: 690 VA Control/Signal outputs: 2 Temperature range (Device): 0 °C to 35 °C		
	6411 U-500-101	2CKA006410A0378	1/10

[1] Compatible with types 6411 U/x.

	**Brightness sensor** For insert 6411U/S-101. With 2 m connecting cable. Measuring range: 15-50,000 lux.		
	6414-101	2CKA006410A0389	1/10
	**Sun sensor** For insert 6411U/S-101. Measuring range: 5-50,000 lux.		
	6482	2CKA006410A0203	1

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Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Short-time timer insert** [1] **countdown timer** For time-programmed switching of electrical consumers. With control cover, without cover plate. Minimum timer time: 1 second. Maximum timer time: 9:59:59 hours. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 1x Normally open contact Rated current: 10 A, cos ϕ 1 Rated power: 2300 VA Temperature range (Device): 0 °C to 35 °CIEC 60669-2-1, British Standard EN 60669-2-1		
	6465 U-101-500	2CKA006410A0393	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
Cover frames:	1gang frame 1721 BS-2xG or Dual Box frame 1722 BSDB-2xG.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker** **with marking** As cover for flush-mounted blind control switch/push switch. For inserts 2000/4 and 2020/4 US. Protection class (Device): IP 20		
anthracite	**1785 JA-81**	2CKA001751A2934	10
ivory white	**1785 JA-82**	2CKA001751A2748	10
studio white	**1785 JA-84-500**	2CKA001751A3088	10/100
studio white, matt [1])	**1785 JA-884**	2CKA001751A3022	10
black matt [1])	**1785 JA-885**	2CKA001751A3036	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **with rotary control, with marking** As cover for flush-mounted blind control switch/push switch. For inserts 2712 U, 2713 U and 2722 U, 2723 U. Protection class (Device): IP 20		
anthracite	**1740-81**	2CKA001710A3623	10
ivory white	**1740-82**	2CKA001710A3154	10
studio white	**1740-84**	2CKA001710A3172	10/100
studio white, matt [1])	**1740-884**	2CKA001710A3872	10
black matt [1])	**1740-885**	2CKA001710A3894	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** [1] **with labelling field** With marking. For half-cylindrical type switches and blind control switch/push-switch. For inserts 2733 USL-101 and 2712 USL-101, 2713 USL-101, 2722 USL-101, 2723 USL-101. Protection class (Device): IP 20		
anthracite	**1755 SL/PZ-81-101**	2CKA001710A3626	10
ivory white	**1755 SL/PZ-82-101**	2CKA001710A3157	10
studio white	**1755 SL/PZ-84-101**	2CKA001710A3175	10
studio white, matt [2])	**1755 SL/PZ-884-101**	2CKA001710A3925	10
black matt [2])	**1755 SL/PZ-885-101**	2CKA001710A3902	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Control element** For Busch-Blind control II insert 6411 U-101, 6411 U/S-101. For basic blind insert 6418 U. For Busch-Universal 2gang 1way insert 6402 U.		
anthracite	**6430-81-102**	2CKA006430A0326	1/10
ivory white	**6430-82-102**	2CKA006430A0327	1/10
studio white	**6430-84-102-500**	2CKA006430A0400	1/10
studio white, matt [1])	**6430-884-102**	2CKA006430A0385	1/10
black matt [1])	**6430-885-102**	2CKA006430A0386	1/10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Standard timer control element** [1] For manual and time-controlled switching of blinds and roller blinds. With dusk to dawn program including (Astro-program) Individual Astro adjustment and Astro blocking time. The controlled devices can be manually operated at any time. Simple setting via high-resolution display with background illumination. With preset switching times/date/time. Factory-set switching times can be individually adjusted. Automatic switchover from summer time to winter time (switch-off function). Switching times/programme are safely stored in the event of a mains power failure. Power reserve for time and date > 10 years. Simple toggling between manual/automatic/vacation modes. Programming possible only with control element attached and energized. 2 switching times per day can be user-defined for each day of the week. Astro switching times and switching times can be combined. For basic blind insert 6418 U. Temperature range (Device): 0 °C to 35 °C		
	6456-101	2CKA006410A0398	1/10

[1] See respective cover plates 6435-xx.

carat®
Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Comfort timer control element [1])** For manual and time-controlled switching of blinds, roller blinds, awnings, lighting and other electrical devices. With dusk to dawn program including (Astro-program) Individual Astro adjustment and Astro blocking time. The controlled devices can be manually operated at any time. Simple setting via high-resolution display with background illumination. With preset switching times/date/time. Factory-set switching times can be individually adjusted. Automatic switchover from summer time to winter time (switch-off function). Switching times/programme are safely stored in the event of a mains power failure. Power reserve for time and date > 10 years. Simple toggling between manual/automatic/vacation modes. Combined with Busch-Blind control II insert 6411 U/S-101, sun protection and twilight function. Freely adjustable temperature and brightness-dependent sun protection function. Freely adjustable twilight function. User-adjustable running times for blinds and air conditioning. Programming possible only with control element attached and energized. 6 switching times per day can be user-defined for each day of the week. Astro switching times and switching times can be combined. When combined with LED dimmer 6524 U, Busch-Universal master dimmer insert 6593 U or Busch-Memory touch-type controller 6550 U-101, the brightness of the lighting can be adjusted for each ON switching time. For Busch-Blind control II insert 6411 U-101, 6411 U/S-101. For Busch-Universal relay switch insert 6401 U-102. For Busch-Universal master dimmer insert 6593 U. For LED dimmer insert 6524 U and 6526 U.. For Busch-Memory touch-type controller 6550 U-101. Temperature range (Device): 0 °C to 35 °C		
	6455-101-500	2CKA006410A0399	1/10

[1]) See respective cover plates 6435-xx.

Product	Article-No.	Order-No.	Pack/Qty
	**Time switch mechanism 16 A [1]) [2])** **DP, break contact for staircases, exterior lighting, fans, etc.** Running time: 15 min For time-programmed switching of electrical consumers. Schaltkontakte (2-polig) schließen, wenn die Laufzeit eingestellt und gestartet wird. Schaltkontakte (2-polig) öffnen, wenn die eingestellte Zeit abgelaufen ist. Rated voltage: 230 V~, +10 % / -10 % Rated current: 16 A, cos ϕ 0.25 Protection class (Device): IP 20		
	1070 U	2CKA001043A0025	1/10

[1]) For screw-fixing only
[2]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Time switch mechanism 16 A [1]) [2])** **DP, break contact for staircases, exterior lighting, fans, etc.** Running time: 120 min For time-programmed switching of electrical consumers. Schaltkontakte (2-polig) schließen, wenn die Laufzeit eingestellt und gestartet wird. Schaltkontakte (2-polig) öffnen, wenn die eingestellte Zeit abgelaufen ist. Rated voltage: 230 V~, +10 % / -10 % Rated current: 16 A, cos ϕ 0.25 Protection class (Device): IP 20		
	1071 U	2CKA001043A0124	1

[1]) For screw-fixing only
[2]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For comfort timer control element 6455-101-500. For standard timer control element 6456-101. For room thermostats 1098 U-101 and 1098 UF-101. For short-time timer 6465 U-101. For Busch-CO2 sensor 1091 U-500. For blind compact timer 6422 U.		
anthracite	**6435-81**	2CKA006430A0303	10
ivory white	**6435-82**	2CKA006430A0304	10
studio white	**6435-84**	2CKA006430A0306	10
studio white, matt [1])	**6435-884**	2CKA006430A0388	10
black matt [1])	**6435-885**	2CKA006430A0389	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **with rotary knob, with marking** For Busch-Timer insert 1070 U. Running time: 15 min Protection class (Device): IP 20		
anthracite	**1770-81-103**	2CKA001753A0255	10
ivory white	**1770-82-103**	2CKA001753A0256	10
studio white	**1770-84-103**	2CKA001753A0258	10
studio white matt [1])	**1770-884-103**	2CKA001753A0260	10
black matt [2])	**1770-885-103**	2CKA001753A0261	10

[1]) Surface lacquered in aluminium.
[2]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **with rotary knob, with marking** For Busch-Timer insert 1071 U. Running time: 120 min Protection class (Device): IP 20		
anthracite	**1771-81-103**	2CKA001753A0265	10
ivory white	**1771-82-103**	2CKA001753A0266	10
studio white	**1771-84-103**	2CKA001753A0301	10
studio white matt [1])	**1771-884-103**	2CKA001753A0303	10
black matt [1])	**1771-885-103**	2CKA001753A0304	10

[1]) Surface painted.

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Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Blind insert, 1 gang, 2 way flex** 3 wire connection (neutral conductor required). For the control of roller shutters, blind and awning motors with mechanical or electronic limit switch shut-off. Group formation via extension input possible. Operation also via conventional push buttons (2020 US non-illuminated/2021/6 UK) possible. Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL.		
	64831 U-500	2CKA006400A0096	1
	**Extension insert flex** 3 wire connection (neutral conductor required). For the extension of the Busch-Comfort switch or presence detector installations. For group control of flex inserts via extension unit communication. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with all flex inserts.		
	64891 U-500	2CKA006800A3051	1
	Control element, 1 gang flex Tapping control element, 1gang. Compatible with all free@home flex inserts. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64711-500	2CKA006400A0099	1
	**Control element, 1 gang, flex wireless** Tapping control element, 1gang. For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62711-WL-500	2CKA006200A0281	1
	**Control element, 2 gang flex** Tapping control element, 2gang For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64721-500	2CKA006400A0101	1

Product	Article-No.	Order-No.	Pack/Qty
	**Control element, 1 gang, flex wireless** Tapping control element, 2gang For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62721-WL-500	2CKA006200A0283	1
	**Weather Station** For recording and transmitting of brightness, temperature, wind speed and rain. Weather data can be linked with actuators to automatically control functions. Weather data can be visualized in the free@home web interface and the free@home app. Remote operation via the Bluetooth and smartphone/tablet app.		
	WS-1-WL.1	2CKA006200A0297	1
	**Standard Inputs** WS-1/A1.1 Mast adapter weather station		
	WS-1/A1.1	2CKA006200A0848	1
	**Rocker** **1gang, with "Blind" icon** As cover for ABB-free@home® sensor units and sensor/actuator units		
antracite	SRB-1-81	2CKA006220A0143	1
ivory white	SRB-1-82	2CKA006220A0518	1
studio white	SRB-1-84	2CKA006220A0145	1
studiowhite matt	SRB-1-884	2CKA006220A0603	1
	**Rocker** **2gang left/right, "Blind" icon** As cover for ABB-free@home® sensor units and sensor/actuator units		
anthracite	SRB-2-81	2CKA006220A0158	1
ivory white	SRB-2-82	2CKA006220A0523	1
studio white	SRB-2-84	2CKA006220A0160	1
studiowhite matt	SRB-2-884	2CKA006220A0608	1

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Blind control / timers

Product	**Article-No.**	Order-No.	Pack/Qty
	**Rocker** **2gang right, with “Scene” icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
anthracite	SRS-2-R-81	2CKA006220A0173	1
ivory white	SRS-2-R-82	2CKA006220A0528	1
studio white	SRS-2-R-84	2CKA006220A0175	1
studiowhite matt	SRS-2-R-884	2CKA006220A0613	1

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Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet** With screwless terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUC-81-500**	2CKA002011A6215	10/100
ivory white	**20 EUC-82-500**	2CKA002011A6214	10/100
studio white	**20 EUC-84-500**	2CKA002011A6207	10/100
studio white, matt	**20 EUC-884-500**	2CKA002011A6208	10
black matt [1])	**20 EUC-885-500**	2CKA002011A6211	10/100

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1])** **shuttered** With screwless terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUCKS-81**	2CKA002013A5265	10
ivory white	**20 EUCKS-82-500**	2CKA002013A5376	10/100
studio white	**20 EUCKS-84-500**	2CKA002013A5372	10/100
studio white, matt	**20 EUCKS-884-500**	2CKA002013A5373	10/100
black matt [2])	**20 EUCKS-885**	2CKA002013A5333	10/100

[1]) Increased shock protection .
[2]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1]) [2])** **shuttered** With screw-type terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**23 EUCB-81**	2CKA002013A5474	10
ivory white	**23 EUCB-82**	2CKA002013A5475	10
studio white	**23 EUCB-84**	2CKA002013A5477	10/100
studio white, matt [3])	**23 EUCB-884**	2CKA002013A5479	10
black matt [3])	**23 EUCB-885**	2CKA002013A5480	10

[1]) Increased shock protection .
[2]) With screw-type terminal for rigid and flexible wires
[3]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® USB socket outlet, 2gang [1]) [2]) [3]) [4])** **shuttered** For connecting electric loads. DP (2 P + E) With screwless terminals. For supply and support of mobile devices via USB-cable. With two USB type A outputs. Simultaneous charging via USB connection and use of the SCHUKO® socket outlet. Support of loading protocol on the USB-A connection: Apple MFI with 2.4 A and BC 1.2 with 1.5 A. With electronic short-circuit protection. With electronic overload protection. Rated voltage: 230 V~, +10 % / --10 % Secondary: 5 V-, +5 % / -5 % Rated frequency: 50 Hz - 60 Hz Outputs: 2x USB charging interface Suitable for: SCHUKO® socket outlet Rated current: 16 A Suitable for: In case one output is used: Rated current: 2.4 A Output voltage: 5 V- Suitable for: In case two output are used: Rated current: 1.2 A Output voltage: 5 V- Rated power: 12 W Protection class (Device): IP 20, SELV Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 58 mm Mounting depth: 39.5 mm		
anthracite	**20 EUCB2USB-81-500**	2CKA002011A6268	1/10
ivory white	**20 EUCB2USB-82-500**	2CKA002011A6270	1/10
studio white	**20 EUCB2USB-84-500**	2CKA002011A6274	1/10
studio white matt [5])	**20 EUCB2USB-884-500**	2CKA002011A6278	1/10
black matt [5])	**20 EUCB2USB-885-500**	2CKA002011A6280	1/10

[1]) Increased shock protection .
[2]) Connecting terminals approved in accordance with VDE 0620-1 as connectors.
[3]) No data transfer.
[4]) When cleaning the device, use dust cover 2098 for the USB-A connection.
[5]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet steplight® [1])** **With night orientation light** with separate connection cables for switch contact. with LED, Shuttered. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUCBLI-81**	2CKA002013A5459	1
ivory white	**20 EUCBLI-82**	2CKA002013A5292	1
studio white	**20 EUCBLI-84**	2CKA002013A5294	1
studio white, matt [2])	**20 EUCBDR-884**	2CKA002013A5420	10
black matt [2])	**20 EUCBDR-885**	2CKA002013A5421	10

[1]) Connecting terminals approved in accordance with VDE 0620-1 as connectors.
[2]) Surface painted.

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Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1] with labelling field** DP (2 P + E) Size of labelling field: 60 x 9 mm. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUN-81**	2CKA002011A3802	10
ivory white	**20 EUN-82**	2CKA002011A3726	10
studio white	**20 EUN-84-500**	2CKA002011A6209	10/100
studio white, matt [2]	**20 EUN-884**	2CKA002011A3881	10
black matt [2]	**20 EUN-885**	2CKA002011A3884	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1] with marking "EDV"** With screwless terminals. DP (2 P + E) Shuttered. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUCKS/DV-81**	2CKA002013A5266	10
ivory white	**20 EUCKS/DV-82**	2CKA002013A5267	10
studio white	**20 EUCKS/DV-84**	2CKA002013A5268	10
studio white, matt [2]	**20 EUCKS/DV-884**	2CKA002013A5327	10
black matt [2]	**20 EUCKS/DV-885**	2CKA002013A5332	10

[1] Increased shock protection .
[2] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Protector® SCHUKO® socket outlet [1] with overvoltage protection** DP (2 P + E) With integrated and external signalling contact. ISN = 5 kA Device protection for technical sensitive equipment such as computer, entertainment electronics and building management systems. Effectively reduces overvoltage peaks occurring between the sub-distribution switch board and SCHUKO® socket outlet. Arrestor test class: classification Type 2 Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**2310 EUGL/VA-81-11**	2CKA002011A3830	1
ivory white	**2310 EUGL/VA-82-11**	2CKA002011A3831	1
studio white	**2310 EUGL/VA-84-11**	2CKA002011A3833	1
red RAL 3020	**2310 EUGL/ VA-12-82-101**	2CKA002011A6257	1/10

[1] Connecting terminals approved in accordance with VDE 0620-1 as connectors.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet with LED control light** Shuttered. DP (2 P + E) With transparent lens. LED colour green. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUCBL-81**	2CKA002013A5457	10
ivory white	**20 EUCBL-82**	2CKA002013A5284	10
studio white	**20 EUCBL-84**	2CKA002013A5286	10
studio white, matt [1]	**20 EUCBL-884**	2CKA002013A5336	10
black matt [1]	**20 EUCBL-885**	2CKA002013A5330	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet with hinged lid** With screwless terminals. DP (2 P + E) Hinged lid notches when opened. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUK-81**	2CKA002018A1486	10
ivory white	**20 EUK-82**	2CKA002018A1465	10
studio white	**20 EUK-84-500**	2CKA002018A1509	10/100
studio white, matt [1]	**20 EUK-884**	2CKA002018A1494	10
black matt [1]	**20 EUK-885**	2CKA002018A1495	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Object socket outlet [1] shuttered** With screwless terminals. DP (2 P + E) Incl. Cover plate with extract mechanism. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUAB-81**	2CKA002013A5404	10
ivory white	**20 EUAB-82**	2CKA002013A5405	10
studio white	**20 EUAB-84**	2CKA002013A5407	10
studio white, matt [2]	**20 EUAB-884**	2CKA002013A5409	10
black matt [2]	**20 EUAB-885**	2CKA002013A5410	10

[1] Increased shock protection .
[2] Surface painted.

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Product	Article-No.	Order-No.	Pack/Qty
	**USB socket outlet earthing pin, 2gang [1] [2] [3] shuttered** For connecting electric loads. DP (2 P + E) With screwless terminals. For supply and support of mobile devices via USB-cable. With two USB type A outputs. Simultaneous charging via USB connection and use of the SCHUKO® socket outlet. Support of loading protocol on the USB-A connection: Apple MFI with 2.4 A and BC 1.2 with 1.5 A. With electronic short-circuit protection. With electronic overload protection. Suitable for the countries: Belgium, Poland, Czech Republic. Rated voltage: 230 V~, +10 % / --10 % Secondary: 5 V-, +5 % / -5 % Rated frequency: 50 Hz - 60 Hz Outputs: 2x USB charging interface Suitable for: Earth pin socket Rated current: 16 A Suitable for: In case one output is used: Rated current: 2.4 A Suitable for: In case two output are used: Rated current: 1.2 A Output voltage: 5 V- Rated power: 12 W Protection class (Device): IP 20, SELV Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 58 mm Mounting depth: 39.5 mm		
anthracite	**20 MUCB2USB-81-500**	2CKA002011A6290	1
ivory white	**20 MUCB2USB-82-500**	2CKA002017A1889	1/10
studio white	**20 MUCB2USB-84-500**	2CKA002017A1891	1/10
studio white matt [4]	**20 MUCB2USB-884-500**	2CKA002017A1893	1/10
black matt [4]	**20 MUCB2USB-885-500**	2CKA002017A1894	1/10

[1] Socket outlet with integrated child protection. Replaces the usual term"...with child protection".
[2] No data transfer.
[3] When cleaning the device, use dust cover 2098 for the USB-A connection.
[4] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Shaver socket outlet** For installation into FM 2gang wall box 3030 and 3031. Rated voltage: 240 V, +10 % / -10 % Output voltage: 115 V, +10 % / -10 % Secondary: 240 V, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Rated power: 20 VA		
anthracite	**2332 UJBS-81**	2CKA002130A0297	1
ivory	**2332 UJBS-82**	2CKA002130A0290	1
studio white	**2332 UJBS-84**	2CKA002130A0292	1
studio white, matt [1]	**2332 UJBS-884**	2CKA002130A0294	1
black matt [1]	**2332 UJBS-885**	2CKA002130A0295	1

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Flush-mounting wall box, 2gang** For shaver socket outlet 2332 UJBS-8xx. Protection class (Device): IP 20 Dimensions: (L x W x D): 135 mm x 75 mm x 47 mm		
	3030	2CKA001741A0067	4
	**Flush-mounting cavity wall box, 2gang** For shaver socket outlet 2332 UJBS-8xx. Protection class (Device): IP 20 Dimensions: (L x W x D): 142 mm x 75 mm x 45 mm		
	3031	2CKA001741A0068	4
	**13 A Switched socket outlet** 1gang With screw-type terminals. SP switched Without claws. Only for mounting in VDE flush-mounted wallboxes CFB 122 and CFBM 122. Rated voltage: 250 V~ Rated current: 13 ABS 1363: part2		
anthracite	**2190 EUC-81**	2CKA002190A0216	10/100
ivory	**2190 EUC-82**	2CKA002190A0213	10/100
studio white	**2190 EUC-84**	2CKA002190A0215	10/100
studio white, matt [1]	**2190 EUC-884**	2CKA002190A0218	10
black matt [1]	**2190 EUC-885**	2CKA002190A0219	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**2gang European/American socket outlet, 10A** 2gang With screw-type terminals. SP switched Without claws. Rated voltage: 250 V~ Rated current: 10 A		
	delivery on request		
anthracite	**2192-02 UC-81-500**		
	delivery on request		
ivory white	**2192-02 UC-82-500**		
	delivery on request		
studio white	**2192-02 UC-84-500**		
	**Socket outlet [1] with earth pin** With screwless terminals. Suitable for the countries: Belgium, Poland, Czech Republic. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A		
	20 M-500	2CKA002017A0854	10/100

[1] Insert can be used for all covers 2399 UCKS-xx.

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Product	Article-No.	Order-No.	Pack/Qty
	**Socket outlet cover frame shuttered** For socket outlet insert 20 M-500.		
anthracite	**2399 UCKS-81**	2CKA002099A0216	10
ivory	**2399 UCKS-82**	2CKA002099A0211	10
studio white	**2399 UCKS-84**	2CKA002099A0214	10
studio white, matt [1])	**2399 UCKS-884**	2CKA002099A0255	10
black matt [1])	**2399 UCKS-885**	2CKA002099A0256	10/100

[1]) Surface painted.

	**Socket outlet with earthing pin** With screwless terminals. Suitable for the countries like Poland, Czech Republic. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
ivory white	**20 MUC-82-500**	2CKA002017A0785	10/100
studio white	**20 MUC-84-500**	2CKA002017A0786	10/100
studio white, matt [1])	**20 MUC-884-500**	2CKA002017A0859	10

[1]) Surface painted.

	**Chinese socket outlet, 10 A** 1gang With screw-type terminals. Without claws. According to Chinese standard: GB 2099.1 Rated voltage: 250 V~ Rated current: 10 A Rated current: 10 A delivery on request		
anthracite	**2193 EUC/10-81-500**		
	delivery on request		
ivory white	**2193 EUC/10-82-500**		
	delivery on request		
studio white	**2193 EUC/10-84-500**		

	**Chinese socket outlet, 16 A** 1gang With screw-type terminals. Without claws. According to Chinese standard: GB 2099.1 Rated voltage: 250 V~ Rated current: 16 A delivery on request		
anthracite	**2193 EUC/16-81-500**		
	delivery on request		
ivory white	**2196 EUC/16-82-500**		
	delivery on request		
studio white	**2193 EUC/16-84-500**		

Product	Article-No.	Order-No.	Pack/Qty
	**Chinese and Euro American socket outlet, 10 A** 1gang With screw-type terminals. Without claws. According to Chinese standard: GB 2099.1 Rated voltage: 250 V~ Rated current: 10 A delivery on request		
anthracite	**2195 EUC/10-81-500**		
	delivery on request		
ivory white	**2195 EUC/10-82-500**		
	delivery on request		
studio white	**2195 EUC/10-84-500**		

	**International socket outlet 13A [1])** 1gang With screw-type terminals. Without claws. Rated voltage: 250 V~ Rated current: 13 A delivery on request		
anthracite	**2197 EUC-81-500**		
	delivery on request		
ivory white	**2197 EUC-82-500**		
	delivery on request		
studio white	**2197 EUC-84-500**		

[1]) Usage may be restricted in certain countries.

	**Euro American socket outlet with earth, 16 A** 1gang With screw-type terminals. Without claws. Rated voltage: 250 V~ Rated current: 16 A delivery on request		
anthracite	**2196 EUC-81-500**		
	delivery on request		
ivory white	**2196 EUC-82-500**		
	delivery on request		
studio white	**2196 EUC-84-500**		

	**SCHUKO® socket outlet without claw [1]) shuttered** Without claws. With screwless terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUCRB-81**	2CKA002013A5437	10/100
ivory white	**20 EUCRB-82**	2CKA002013A5438	10/100
studio white	**20 EUCRB-84-500**	2CKA002013A5441	10/100
studio white, matt [2])	**20 EUCRB-884**	2CKA002013A5443	10
black matt [2])	**20 EUCRB-885**	2CKA002013A5444	10/100

[1]) Increased shock protection .
[2]) Surface painted.

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Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1] [2] shuttered** With screw-type terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**2300 EUCB-81**	2CKA002013A5448	10
ivory white	**2300 EUCB-82**	2CKA002013A5449	10/100
studio white	**2300 EUCB-84**	2CKA002013A5451	10/100
studio white, matt [3]	**2300 EUCB-884**	2CKA002013A5453	10/100
black matt [3]	**2300 EUCB-885**	2CKA002013A5454	10/100

[1] Increased shock protection .
[2] With screw-type terminals
[3] Surface painted.

	**Busch-Socket outlet [1] shuttered** With screwless terminals. DP (2 P + E) With eject mechanism. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUCBDR-81**	2CKA002013A5415	10
ivory white	**20 EUCBDR-82**	2CKA002013A5416	10
studio white	**20 EUCBDR-84**	2CKA002013A5418	10
studio white, matt [2]	**20 EUCBDR-884**	2CKA002013A5420	10
black matt [2]	**20 EUCBDR-885**	2CKA002013A5421	10

[1] Increased shock protection .
[2] Surface painted.

	**SCHUKO® socket outlet [1] [2] with label field, increased shock protection** Size of labelling field: 60 x 9 mm. With screwless terminals. DP (2 P + E) Shuttered. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUCNB-81**	2CKA002013A5427	10
ivory white	**20 EUCNB-82**	2CKA002013A5428	10
studio white	**20 EUCNB-84-500**	2CKA002013A5431	10/100
studio white, matt [3]	**20 EUCNB-884**	2CKA002013A5433	10/100
black matt [3]	**20 EUCNB-885**	2CKA002013A5434	10/100

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Increased shock protection .
[3] Surface painted.

	**FI-SCHUKOMAT, SCHUKO® socket outlet (RCD) [1] [2] [3] with earth leakage circuit breaker** Shuttered. DP cut off (P,N) Without PE monitoring. With output terminals for connecting and protecting downsream SCHUKO® socket outlets. Rated fault current: 30 mA. With fixing claws. Rated frequency: 45-60 Hz. Rated voltage: 230 V~ Rated current: 16 A Protection class (Device): IP 20 Temperature range (Device): -25 °C to 40 °C		
anthracite	**3120 EUCB-81**	2CKA003116A0667	1/10
ivory white	**3120 EUCB-82**	2CKA003116A0661	1
studio white	**3120 EUCB-84**	2CKA003116A0662	1
studio white, matt [4]	**3120 EUCB-884**	2CKA003116A0670	1/10
black matt [4]	**3120 EUCB-885**	2CKA003116A0671	1/10

[1] Connecting terminals approved in accordance with VDE 0620-1 as connectors.
[2] Protective measure according to VDE 0100; can be proven or checked using the Profitest 0100S testing device, for example.
[3] Increased shock protection .
[4] Surface painted.

	**Buschmat® FI - Insert [1] with earth leakage breaker with connecting conductor** Protection of downstream consumers. Rated fault current: 30 mA. DP cut off (P,N) With fixing claws. Rated frequency: 45-60 Hz. Rated voltage: 230 V~ Rated current: 16 A Protection class (Device): IP 20 Temperature range (Device): -25 °C to 40 °C		
anthracite	**3151 UC-81**	2CKA003117A0009	1/10
ivory white	**3151 UC-82**	2CKA003117A0005	1/10
studio white	**3151 UC-84**	2CKA003117A0006	1/10
studio white, matt [2]	**3151 UC-884**	2CKA003117A0012	1/10
black matt [2]	**3151 UC-885**	2CKA003117A0013	1/10

[1] Protective measure according to VDE 0100; can be proven or checked using the Profitest 0100S testing device, for example.
[2] Surface painted.

carat®
Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1])** **with hinged lid and internal increased shock protection** Shuttered. With screwless terminals. DP (2 P + E) with hinged lid Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUKB-81**	2CKA002018A1517	10/100
ivory white	**20 EUKB-82**	2CKA002018A1518	10/100
studio white	**20 EUKB-84**	2CKA002018A1520	10/100
studio white, matt [2])	**20 EUKB-884**	2CKA002018A1522	10/100
black matt [2])	**20 EUKB-885**	2CKA002018A1523	10/100
anthracite [3])	**20 EUKBR-81**	2CKA002018A1526	10/100
ivory [3])	**20 EUKBR-82**	2CKA002018A1527	10/100
studio white [3])	**20 EUKBR-84**	2CKA002018A1529	10/100
studio white, matt [2]) [3])	**20 EUKBR-884**	2CKA002018A1530	10/100
black matt [2]) [3])	**20 EUKBR-885**	2CKA002018A1531	10/100

[1]) Increased shock protection .
[2]) Surface painted.
[3]) Without claw.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1]) [2]) [3])** **with hinged lid and labelling field** Shuttered. With screwless terminals. DP (2 P + E) with hinged lid Size of labelling field: 60 x 9 mm. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUKNB-81**	2CKA002018A1537	10/100
ivory white	**20 EUKNB-82**	2CKA002018A1538	10/100
studio white	**20 EUKNB-84**	2CKA002018A1540	10/100
studio white, matt [4])	**20 EUKNB-884**	2CKA002018A1541	10/100
black matt [4])	**20 EUKNB-885**	2CKA002018A1542	10/100

[1]) Increased shock protection .
[2]) The labels are clamped under the labelling field.
[3]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[4]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1])** **with hinged lid and lock** Shuttered. With screwless terminals. DP (2 P + E) With different lock mechanism. Delivery includes 2 keys. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUKNBSL-81**	2CKA002018A1557	10
ivory white	**20 EUKNBSL-82**	2CKA002018A1559	10
studio white	**20 EUKNBSL-84**	2CKA002018A1563	10
studio white, matt [2])	**20 EUKNBSL-884**	2CKA002018A1565	10
black matt [2])	**20 EUKNBSL-885**	2CKA002018A1567	10

[1]) Increased shock protection .
[2]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1])** **with hinged lid and lock** Shuttered. With screwless terminals. DP (2 P + E) With evenly engaging lock. Delivery includes 2 keys. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUKNBSL-81-101**	2CKA002018A1558	10
ivory white	**20 EUKNBSL-82-101**	2CKA002018A1560	10
studio white	**20 EUKNBSL-84-101**	2CKA002018A1564	10
studio white, matt [2])	**20 EUKNBSL-884-101**	2CKA002018A1566	10
black matt [2])	**20 EUKNBSL-885-101**	2CKA002018A1568	10

[1]) Increased shock protection .
[2]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1]) [2]) [3])** **with hinged lid, labelling field and LED control light** Shuttered. With screwless terminals. DP (2 P + E) with hinged lid Size of labelling field: 60 x 9 mm. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUKNBL-81**	2CKA002018A1548	10/100
ivory white	**20 EUKNBL-82**	2CKA002018A1549	10/100
studio white	**20 EUKNBL-84**	2CKA002018A1551	10/100
studio white, matt [4])	**20 EUKNBL-884**	2CKA002018A1552	10/100
black matt [4])	**20 EUKNBL-885**	2CKA002018A1553	10/100

[1]) Increased shock protection .
[2]) The labels are clamped under the labelling field.
[3]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[4]) Surface painted.

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Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**WLAN access point, flush-mounted [1] [2]** **power supply from mains power** Operation as WLAN access point for the connection of WLAN terminal devices to the LAN. Operation as WLAN repeater for extending the transmission range of a WLAN. Operation as WLAN adapter for integrating Ethernet terminal devices into a WLAN. Supports WLAN standards IEEE 802.11b/g/n with 2.4 GHz; integrated WLAN antenna. Backward connection of an Ethernet cable via screw terminals (10/100 Mbit/s). Front-side Ethernet connection via a RJ45 socket (10/100 Mbit/s). The three connections (WLAN, Ethernet/screw terminals and Ethernet/RJ45)can be used in parallel via the integrated switch. Power supply via 2-pole connecting terminal. Nominal voltage: 100 - 240 V~ For mounting in commercially available deep flush-mounted and hollow-wall boxes. Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20 Dimensions: (L x W x D): 80 mm		
	8186/31-101-500	2CKA008100A0359	1

[1] Suitable for cover plate 1803-xxx.
[2] Not to be mounted in SM box 1701-xxx, 1702-xxx, 1703-xxx.

	**Reset magnet** For resetting WLAN access point UP 8186/31-101 and WLAN access point PoE UP 8186/41 to the factory settings. Protection class (Device): IP 20		
	8186/11-500	2CKA008100A0361	1

	**Universal data connection unit, cat. 3 [1]** **1gang** With down-leading outlet. For 8-pole plug, RJ 11/12, RJ 45, ISDN capability, Cat. 3. Design according to IEC 60 603-7-2:2007. Screw contacts With claw. Protection class (Device): IP 20		
	0213-500	2CKA000230A1549	10/100

[1] Suitable for cover plate 1803-xxx.

	**Universal data connection box with down-leading outlet [1]** **2gang internally parallel connected** With down-leading outlet. For 8-pole plug, RJ 11/12, RJ 45, ISDN capability, Cat. 3. Design according to IEC 60 603-7-2:2007. Screw contacts With claw. Protection class (Device): IP 20		
	0214	2CKA000230A0235	10/100
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		

[1] Suitable for cover plate 1803-02-xxx.

Product	Article-No.	Order-No.	Pack/Qty
	**Universal data connection box with down-leading outlet [1]** **2 x outlets, 8/8-pole** With down-leading outlet. For 8-pole plug, RJ 11/12, RJ 45, ISDN capability, Cat. 3. Design according to IEC 60 603-7-2:2007. Screw contacts With claw. Protection class (Device): IP 20		
	0215	2CKA000230A0243	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		

[1] Suitable for cover plate 1803-02-xxx.

	**Data-connection box, RJ 45, cat. 6a iso, shielded [1]** **1gang** With down-leading outlet and LSA self-cutting clamps. RJ-45 terminals for networks according to Cat 6A, Class EA (10 Gbits/s / 500MHz). Equates to cat. 6a, Class EA according to ISO/IEC 11801:2011-06. Terminal marking A and B according to TIA/EIA-568-B.2. Typ according to EN 60 603-7-51:2011-01. Shielding according to DIN EN 55022, Class B. Up to 500 MHz on all pairs of wires. Suitable for 10-Gigabit Ethernet. Suitable for PoE+ according to IEEE 802.3at, >- 1.000 contact durability. Flex cable entries from all sides without buckles. Earthing of housing via 6,3 mm blade terminal at the back possible. Re-embedded proofed. Suitable for Mix-and-Match operation. Suitable for RJ 11, RJ 12 und RJ 45. For data cables with a diameter of 6 -10 mm. For wires of AWG 24-22. For trunk systems, flush-mounted wall boxes and underfloor systems. Without claws. Mounting depth: 31 mm. Protection class (Device): IP 20		
	0218/11-101	2CKA000230A0409	1/10

[1] Suitable for cover plate 1803-xxx.

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Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**Data-connection box, RJ 45, cat. 6a iso, shielded [1]) 2 x outlets, 8/8-pole** With down-leading outlet and LSA self-cutting clamps. RJ-45 terminals for networks according to Cat 6A, Class EA (10 Gbits/s / 500MHz). Equates to cat. 6a, Class EA according to ISO/IEC 11801:2011-06. Terminal marking A and B according to TIA/EIA-568-B.2. Typ according to EN 60 603-7-51:2011-01. Shielding according to DIN EN 55022, Class B. Up to 500 MHz on all pairs of wires. Suitable for 10-Gigabit Ethernet. Suitable for PoE+ according to IEEE 802.3at, >- 1.000 contact durability. Flex cable entries from all sides without buckles. Earthing of housing via 6,3 mm blade terminal at the back possible. Re-embedded proofed. Suitable for Mix-and-Match operation. Suitable for RJ 11, RJ 12 und RJ 45. For data cables with a diameter of 6 -10 mm. For trunk systems, flush-mounted wall boxes and underfloor systems. For wires of AWG 24-22. Without claws. Mounting depth: 31 mm. Protection class (Device): IP 20		
	0218/12-101	2CKA000230A0411	1/10

[1]) Suitable for cover plate 1803-02-xxx.

Product	Article-No.	Order-No.	Pack/Qty
	**Universal data connection box 8(6)/ telephone unit 6F+N - connection box [1]) 2 x 6-pole** with straight outlet, with screw contacts, Universal data-connection boxes: RJ 11/12, ISDN capable Cat. 3 in acc. with IEC 603-7/German Standard DIN EN 60603-7, Telecommunication outlet (telephone unit): for 1 telephone, 1 auxiliary device or 1 data transmission unit, With claw. Protection class (Device): IP 20		
white	**UAE 8(6)TAE 6 F+N**	2CKA000230A0381	10/100

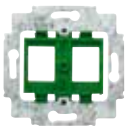
[1]) Suitable for cover plate 2539-xxx, 1766-xxx and 1746-2xx-FN.

Product	Article-No.	Order-No.	Pack/Qty
	**Satellite co-axial outlets 2 connectors/dead-end feeder** Broadband technology 5-2.400 MHz For DVB-T, satellite and broad-band cable systems. For analogue and digital transmission. With claw. Minimal installation depth, class A. Protection class (Device): IP 20		
	0230-101	2CKA000230A0250	10/100

Product	Article-No.	Order-No.	Pack/Qty
	**Antenna socket insert Radio/TV 2 connectors/loop through type** Broadband technology 5-2.400 MHz For DVB-T, satellite and broad-band cable systems. For analogue and digital transmission. With claw. Minimal installation depth, class A. Protection class (Device): IP 20		
	0231-101	2CKA000230A0268	10/100

Product	Article-No.	Order-No.	Pack/Qty
	**Satellite co-axial outlets Radio/TV/SAT 3gang dead-end feeder** Broadband technology 47-2.150 MHz. SAT connection designed as screwable F-male plug. with remote feed via F-bush For DVB-T and broadband-cable-systems. For analogue and digital transmission. With claw. Minimal installation depth, class A. Protection class (Device): IP 20		
	0232-101-500	2CKA000230A0463	10/100

Product	Article-No.	Order-No.	Pack/Qty
	**Terminating resistor 75 Ohm** Protection class (Device): IP 20		
	0239	2CKA000230A0201	10/100

Product	Article-No.	Order-No.	Pack/Qty
	**Mounting plate [1]) [2]) with green insert** For 2 modular jack inserts. For systems: CommScope (AVAYA / AT&T / Lucent Technologies), GigaSPEED, PowerSUM, 360 GS 10E bis MGS 600-BK, M1 BH-xx, MPS 100E-xx. With R&M adapter R310694 suitable for R&M connection modules R305111, R305112, R305113 and R305114. Pitch dimensions: (WxH) approx. 16.9 x 17.9 mm. Without claws. Protection class (Device): IP 20		
	1810-500	2CKA001753A9974	10/100

[1]) Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2]) For further information, please refer on the Internet.

Product	Article-No.	Order-No.	Pack/Qty
	**Mounting plate [1]) [2]) with red insert** For 2 modular jack inserts. Suitable for Art. Nos. 0210, 0211 and 0219-101. For systems: AMP / tyco Electronics, BTR, EFB, Krone, Panduit, Quante, Radiall, Setec, Dr.-Ing. Sieger, Telena, Thomas & Betts For Telegärtner AMJ/UMJ connection modules/ couplings. For 2 fiber optic modules of the following types: 3M-Volition, Krone, mvk. Pitch dimensions: (WxH) approx. 14.8 x 19.4 mm. Without claws. Protection class (Device): IP 20		
	1812-500	2CKA001753A9972	10/100

[1]) Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2]) For further information, please refer on the Internet.

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Product	Article-No.	Order-No.	Pack/Qty
	**Mounting plate [1] [2]** **with black insert** For MTRJ or 2 modular jack inserts. For systems: Ackermann, AMP / tyco Electronics (Slim Line (SL) -SM 2gang/switches: 110Connect Jacks, Toolless Jacks / Standard 110Connect Jacks), Brand-Rex, CombiNet, EFB Electronic, Telena. For 2 fiber optic modules of the following types: AMP / tyco Electronics MTRJ. Pitch dimensions: (WxH) approx. 14.8 x 20.4 mm. Without claws. Protection class (Device): IP 20		
	1814-500	2CKA001753A9973	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

	**Mounting plate [1] [2]** **with blue insert** For 2 modular jack inserts. For system: ITT Cannon RJ45 Cat. 5 type 808 RJ45 Mark III. Pitch dimensions: (WxH) approx. 16.0 x 11.0 mm. Without claws. Protection class (Device): IP 20		
	1816	2CKA001710A3100	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

	**Mounting plate [1] [2]** **with orange base** For 2 modular jack inserts. For system: LexCom 150 and LexCom 250. Pitch dimensions: (WxH) approx. 15.4 x 15.4 mm. Without claws. Protection class (Device): IP 20		
	1819	2CKA001753A8056	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

	**Mounting plate [1] [2]** **with grey base** For 2 modular jack inserts. For system: Panduit MiniCom (Cu. z.B. TX6 10 Gig Shielded Jack modules and fiber optic modules. Pitch dimensions: (WxH) approx. 15.9 x 18.7 mm. Without claws. Protection class (Device): IP 20		
	1820	2CKA001753A8057	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

	**Flush-mounted assembly adapter** For the accommodation of one or two universal modules 0219. For flush-mounted installation. Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. Protection class (Device): IP 20		
	0219/12	2CKA000230A0395	1/10

	**Channel assembly adapter** For the accommodation of one or two universal modules 0219. For channel and under-floor installation. Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. Protection class (Device): IP 20		
	0219/13	2CKA000230A0396	1/10

	**Universal module, RJ 45, cat. 6a iso, shielded [1]** **1gang** For installation in installation adapter 0219/12 or 0219/13. Also suited for mounting into cover plate 2561-xxx, 2564-02-xxx and bases 1812, 1866 EB, and 1867 EB. RJ-45 terminals for networks according to Cat 6A, Class EA (10 Gbits/s / 500MHz). Equates to cat. 6a, Class EA according to ISO/IEC 11801:2011-06. Cat. 6A according to ISO/IEC 11801: 2011-06. Terminal marking A and B according to TIA/EIA-568-B.2. Typ according to EN 60 603-7-51:2011-01. Shielding according to DIN EN 55022, Class B. Suitable for PoE+ according to IEEE 802.3at, >- 1.000 contact durability. Bend-radius optimised cable feed (30°). Earthing of housing via 6,3 mm blade terminal at the back possible. Re-embedded proofed. Suitable for Mix-and-Match operation. For 8-pole plug RJ 45 only. Housing made from diecast zinc. With integrated dust-protection cap (can be removed if necessary). With insulation displacement connection For data cables with a diameter of 6 -10 mm. For wires of AWG 24-22. For trunk systems, flush-mounted wall boxes and underfloor systems. Protection class (Device): IP 20		
	0219-101	2CKA000230A0413	1/10

[1] With assembly adapters appropriate for telephone unit cover plates 2539-21x and 1766-xxx.

	**Modular-Jack insert** **6-pole Cat. 3 (AMP-No. 216000-2)** For cover plate 2561-xxx, 2561-02-xxx and insert 1812, 1866 built-in, 1867 built-in. For conductor cross-sections of 0.12 mm² (AWG 26) to 0.35 mm² (AWG 22). Protection class (Device): IP 20		
	0210	2CKA000225A0078	10

	**Modular-Jack insert** **8-pole Cat. 3 (AMP-No. 216005-4)** For cover plate 2561-xxx, 2561-02-xxx and insert 1812, 1866 built-in, 1867 built-in. For conductor cross-sections of 0.12 mm² (AWG 26) to 0.35 mm² (AWG 22). Protection class (Device): IP 20		
	0211	2CKA000225A0086	10

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Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**Built-in jack** For potential balancing jack cover plate and installation in cover plates. For devices of 19 mm diameter. Protection class (Device): IP 20		
	0471-0-0037	2CKA000471A0037	10
	**Potential balancing plug** Suitable for plug 2095 UC-212 and built-in jack 0471-0-0037 acc. to German Standard DIN 42801. For potential balancing jack cover plate (connection up to 6 mm² crimped or soldered) Protection class (Device): IP 20		
	0299-0-0032	2CKA000299A0032	10
	**Blank plate** **with metal mounting plate** Protection class (Device): IP 20		
anthracite	**1742-81**	2CKA001710A3612	10
ivory white	**1742-82**	2CKA001710A3143	10
studio white	**1742-84-500**	2CKA001710A3991	10/100
studio white, matt [1])	**1742-884**	2CKA001710A3873	10/100
black matt [1])	**1742-885**	2CKA001710A3895	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1])** As cover for flex outlet, for cords up to 10.3 mm diameter. With strain relief (without terminal block). Protection class (Device): IP 20		
anthracite	**1749-81**	2CKA001710A3614	10
ivory white	**1749-82**	2CKA001710A3145	10
studio white	**1749-84**	2CKA001710A3163	10/100

[1]) Cover plate can also be used individually as cover for telephone connector boxes (VDo).

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1])** As cover for universal data connection boxes. Art.-No. 0213 (Cat 3/ISDN), 0216-101, 0218/11-101 (Cat 5e/6 data technology) and comparable types of the company Rutenbeck. For WLAN access points 8186/31 and 8186/41. Brand-Rex (WAEGV 8 EKR/EK). BTR (universal data connecting unit design and IAE design). Telegärtner (AMJ 45, UMJ 45). With down-leading outlet. With labelling field. Size of labelling field: 60 x 9 mm. Protection class (Device): IP 20		
anthracite	**1803-81**	2CKA001710A3616	10
ivory white	**1803-82**	2CKA001710A3147	10
studio white	**1803-84-500**	2CKA001710A1550	10/100
studio white, matt [2])	**1803-884**	2CKA001710A3889	10
black matt [2])	**1803-885**	2CKA001710A3912	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1])** **2gang** As cover for universal data connection boxes. Art. No. 0214, 0215 (Cat 3), 0220/12-507, 0221/12-507, 0218, 0217 (Cat 5e/6 data technology) and comparable types of the company Rutenbeck. Brand-Rex (WAEGV 8/8 EKR/EK). AMP (NETCONNECT 5E). BTR (E-DAT C6, E-DAT design, Universal data connecting unit design and IAE design). cti (cti-wire 2.8 Cat.6). Telegärtner (AMJ 45, UMJ 45). With down-leading outlet. With labelling field. Size of labelling field: 60 x 9 mm. Protection class (Device): IP 20		
anthracite	**1803-02-81**	2CKA001710A3615	10
ivory white	**1803-02-82**	2CKA001710A3146	10
studio white	**1803-02-84-500**	2CKA001710A1551	10/100
studio white, matt [2])	**1803-02-884**	2CKA001710A3888	10
black matt [2])	**1803-02-885**	2CKA001710A3911	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Surface painted.

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Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For telephone connection unit. For USB, VGA, HDMI inserts and communication adapter. USB power adapter insert 6472 U-500-101. USB power adapter insert 6475 U-101-500. For loudspeaker connection box. Suitable for part number 0248/0x-101. For data modules. Suitable for Art. No. 0219/12 and 0219/13. For modular outlets with 90° RJ45 outlet from Telegärtner (type MJ and WE). Protection class (Device): IP 20		
anthracite	**1766-81**	2CKA001710A3613	10
ivory white	**1766-82**	2CKA001710A3144	10/100
studio white	**1766-84-500**	2CKA001710A3992	10/100
studio white, matt [1])	**1766-884**	2CKA001710A3926	10
black matt [1])	**1766-885**	2CKA001710A3903	10

[1]) Surface painted.

	**Cover plate** As cover for telephone connector boxes (VDo). Can be knocked out for single or double connection. Protection class (Device): IP 20		
anthracite	**1745-81**	2CKA001710A3624	10
ivory white	**1745-82**	2CKA001710A3155	10
studio white	**1745-84**	2CKA001710A3173	10
studio white, matt [1])	**1745-884**	2CKA001710A3874	10
black matt [1])	**1745-885**	2CKA001710A3896	10

[1]) Surface painted.

	**Cover plate [1])** **socket outlet** Telephone socket (TDO)		
anthracite	**1762-81-506**	2CKA001710A4103	10/100
ivory white	**1762-82-506**	2CKA001710A4104	10/100
studio white	**1762-84-506**	2CKA001710A4106	10/100
studio white matt [2])	**1762-884-506**	2CKA001710A4108	10/100
black matt [2])	**1762-885-506**	2CKA001710A4109	10/100

[1]) Suitable insert: TDO 3x 10 OUP (for 1 telephone and 2 auxiliary devices).
[2]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1]) [2])** **as cover for standard Radio/TV/SAT socket outlets** With 2 connectors Acc. to German Standard DIN 45330. Radio/TV/SAT. With M3 fixing screw. Protection class (Device): IP 20		
anthracite	**1743-81**	2CKA001724A4252	10
ivory white	**1743-82**	2CKA001724A2758	10
studio white	**1743-84-500**	2CKA001724A4332	10/100
studio white, matt [3])	**1743-884**	2CKA001724A4293	10/100
black matt [3])	**1743-885**	2CKA001724A4298	10/100

[1]) Third opening can be knocked out.
[2]) See inserts for satellite coaxial socket outlets.
[3]) Surface painted.

	**Cover plate** As cover for 4gang Satellite co-axial socket outlet EVU 02 F, GEVU 15 S from Hirschmann. Protection class (Device): IP 20		
anthracite	**1743-04-81**	2CKA001724A4374	10
ivory white	**1743-04-82**	2CKA001724A4375	10
studio white	**1743-04-84**	2CKA001724A4377	10
studio white, matt [1])	**1743-04-884**	2CKA001724A4379	10
black matt [1])	**1743-04-885**	2CKA001724A4380	10

[1]) Surface painted.

	**Cover plate** As cover for 4gang Satellite co-axial socket outlet SAT400/EAS/DC, EAS 405, 413 DAS from Ankaro. Protection class (Device): IP 20		
anthracite	**1743/10-04-81**	2CKA001724A4365	10
ivory white	**1743/10-04-82**	2CKA001724A4366	10
studio white	**1743/10-04-84**	2CKA001724A4368	10/100
studio white, matt [1])	**1743/10-04-884**	2CKA001724A4370	10
black matt [1])	**1743/10-04-885**	2CKA001724A4371	10

[1]) Surface painted.

	**Cover plate [1])** **with labelling field** For modular jack with slide entrance. To fit only Art. No. 1810, 1812, 1814, 1816, 1818, 1819 and 1820. Size of labelling field: 60 x 9 mm. Protection class (Device): IP 20		
anthracite	**1800-81**	2CKA001710A3627	10
ivory white	**1800-82**	2CKA001710A3158	10
studio white	**1800-84-500**	2CKA001710A3990	10/100
studio white, matt [2])	**1800-884**	2CKA001710A3887	10
black matt [2])	**1800-885**	2CKA001710A3910	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Surface painted.

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Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For 1 modular jack. Suitable for Art. Nos. 0210, 0211 and 0219-101. Without claws. Protection class (Device): IP 20		
anthracite	**2561-81**	2CKA001753A0400	10
ivory white	**2561-82**	2CKA001753A0401	10
studio white	**2561-84**	2CKA001753A0403	10
studio white, matt [1])	**2561-884**	2CKA001753A0405	10
black matt [1])	**2561-885**	2CKA001753A0406	10

[1]) Surface painted.

	**Cover plate** For 2 modular jack inserts. Suitable for Art. No. 0210 and 0211. Without claws. Protection class (Device): IP 20		
anthracite	**2561-02-81**	2CKA001753A0317	10
ivory white	**2561-02-82**	2CKA001753A0392	10
studio white	**2561-02-84**	2CKA001753A0394	10
studio white, matt [1])	**2561-02-884**	2CKA001753A0396	10
black matt [1])	**2561-02-885**	2CKA001753A0397	10

[1]) Surface painted.

	Cover plate For telecommunication inserts with cover plate 50 x 50 mm. With cover plate 50 x 50 mm, AMP, Brand-Rex, Rutenbeck, BTR, Telegärtner, etc. Protection class (Device): IP 20		
anthracite	**1746/10-81**	2CKA001710A3628	10
ivory white	**1746/10-82**	2CKA001710A3521	10
studio white	**1746/10-84-500**	2CKA001710A3993	10/100
studio white, matt [1])	**1746/10-884**	2CKA001710A3875	10
black matt [1])	**1746/10-885**	2CKA001710A3897	10

[1]) Surface painted.

	Intermediate ring **Reflex SI/SI Linear** For fitting cover plates from the Busch-Duro 2000® SI and Reflex SI range. Protection class (Device): IP 20		
ivory white	**1747 SI-82**	2CKA001710A3862	10
studio white	**1747 SI-84**	2CKA001710A3863	10

	**Intermediate ring** **Busch-balance® SI** For attaching cover plates from the Busch-balance® SI range. Delivery without cover plate. Protection class (Device): IP 20		
anthracite	**1747 BSI-81**	2CKA001710A4093	10
ivory white	**1747 BSI-82**	2CKA001710A4094	10
studio white	**1747 BSI-84**	2CKA001710A4096	10/100

Product	Article-No.	Order-No.	Pack/Qty
	Cover plate [1]) With hinged lid. For telecommunication inserts with cover plate 50 x 50 mm. With cover plate 50 x 50 mm, AMP, Brand-Rex, Rutenbeck, BTR, Telegärtner, etc. Protection class (Device): IP 20		
anthracite	**1746-81**	2CKA001710A3618	10
ivory white	**1746-82**	2CKA001710A3149	10
studio white	**1746-84**	2CKA001710A3167	10
studio white, matt [2])	**1746-884**	2CKA001710A3876	10
black matt [2])	**1746-885**	2CKA001710A3898	10

[1]) Combinable only with covers for flush-mounted inserts
[2]) Surface painted.

	**Intermediate ring with hinged lid [1])** **Busch-balance® SI** For attaching cover plates from the Busch-balance® SI range. Delivery without cover plate. With sealing ring. With hinged lid. Protection class (Device): IP 44 Dimensions: (L x W x D): 63 mm x 63 mm x 20 mm		
anthracite	**2518-WD-81**	2CKA001719A0217	10
ivory white	**2518-WD-82**	2CKA001719A0218	10
studio white	**2518-WD-84**	2CKA001719A0220	10
studio white, matt [2])	**2518-WD-884**	2CKA001719A0222	10
black matt [2])	**2518-WD-885**	2CKA001719A0223	10

[1]) Combinable only with covers for flush-mounted inserts
[2]) Surface painted.

	**XLR centre plate** As cover for Neutrik plug connectors, type D series. Without claws. Protection class (Device): IP 20		
anthracite	**2553-81**	2CKA001724A4399	10
ivory white	**2553-82**	2CKA001724A4400	10
studio white	**2553-84**	2CKA001724A4402	10
studio white, matt [1])	**2553-884**	2CKA001724A4404	10
black matt [1])	**2553-885**	2CKA001724A4405	10

[1]) Surface painted.

	**Cover plate** **with metal mounting plate** For covering universal data communication connectors and circular connectors with screwed plug M 16x0.75 (installable in insert) in accordance with DIN 41524, 41529, 45322, 45327, 45328 and 45329. Knock-out openings 6, 8, 18 mm. Protection class (Device): IP 20		
anthracite	**1748-81**	2CKA001710A3654	10
ivory white	**1748-82**	2CKA001710A3655	10
studio white	**1748-84**	2CKA001710A3656	10
studio white, matt [1])	**1748-884**	2CKA001710A3877	10
black matt [1])	**1748-885**	2CKA001710A3899	10

[1]) Surface painted.

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Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **with metal mounting plate** As cover for BNC and TNC sockets. Knock-out openings 6, 8, 18 mm. Protection class (Device): IP 20		
anthracite	**1750-81**	2CKA001710A3617	10
ivory white	**1750-82**	2CKA001710A3148	10
studio white	**1750-84**	2CKA001710A3166	10
studio white, matt [1])	**1750-884**	2CKA001710A3879	10
black matt [1])	**1750-885**	2CKA001710A3901	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Equipotential socket outlet** **2gang** Without claws. For connecting wires up to 1 x 6 mm² and 4 x 2.5 mm². IEC 60601-1:2005; DIN EN 60601 (VDE 0750-1): July 2007 Connection bolts German Standard DIN 42801. Protection class (Device): IP 20		
anthracite	**2095 UC-81**	2CKA002495A0084	10
ivory white	**2095 UC-82**	2CKA002495A0085	10
studio white	**2095 UC-84**	2CKA002495A0086	10
studio white, matt [1])	**2095 UC-884**	2CKA002495A0091	10
black matt [1])	**2095 UC-885**	2CKA002495A0092	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **with metal mounting plate** With screw-type terminal. Fixed with central locknut. As cover for pilot devices with a diameter of 22.5 mm Without claws. Protection class (Device): IP 20		
anthracite	**2533-81**	2CKA001724A4254	10
ivory white	**2533-82**	2CKA001724A4255	10
yellow	**2533-82-15**	2CKA001724A4382	10
studio white	**2533-84**	2CKA001724A4256	10
studio white, matt [1])	**2533-884**	2CKA001724A4296	10
black matt [1])	**2533-885**	2CKA001724A4301	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1])** **with metal mounting plate** for communication devices. With labelling field 60.2 x 10.2 mm. Without claws. Protection class (Device): IP 20		
anthracite	**1758-81**	2CKA001724A4253	10
ivory white	**1758-82**	2CKA001724A2759	10
studio white	**1758-84**	2CKA001724A2761	10/100
studio white, matt [2])	**1758-884**	2CKA001724A4307	10
black matt [2])	**1758-885**	2CKA001724A4299	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Surface painted.

Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Radio DAB+ [1])** DAB+ and RDS stereo radio alarm clock for flush-mounted installation. With high-resolution colour display for showing additional information. Reception frequency: 87.50 MHz - 108.00 MHz. Receive frequency (DAB+): 174 MHz – 240 MHz. With external AUX input/output, reversible. For mono/stereo operation. 8 radio stations storable. With time and date display. With individual alarm and snooze function. With automatic switch-off function (automatic sleep mode). With extension input to remote-controlled ON/OFF switches. With integrated antenna. With additional connection for external antenna. Permitted speaker impedance: 4 - 8 Ohm Can be installed as 1gang and in multiple combinations. Control element: 4-button operation via floating rocker Display elements: ICU graphic display with 280 DPI. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Control/Signal outputs: 2, Loudspeaker output, impedance 4 Ohm Rated power: 2 W (RMS) Protection class (Device): IP 20 Temperature range (Device): 5 °C to 40 °C Dimensions: (L x W x D): 71 mm x 71 mm x 47 mm Mounting depth: 32 mm		
	8215 U-101-500	2CKA008200A0276	1/10

[1]) No claw. Screw-fixing via keyholes.

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Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Radio BTconnect DAB+ [1])** **With Bluetooth interface for music replay.** DAB+ and RDS stereo radio alarm clock for flush-mounted installation. With high-resolution colour display for showing additional information. With Bluetooth interface for music replay of mobile devices. Connection of external Bluetooth loudspeakers possible. Reception frequency: 87.50 MHz - 108.00 MHz. Receive frequency (DAB+): 174 MHz – 240 MHz. With external AUX input/output, reversible. For mono/stereo operation. 8 radio stations storable. With time and date display. With individual alarm and snooze function. With automatic switch-off function (automatic sleep mode). With extension input to remote-controlled ON/OFF switches. With integrated antenna. With additional connection for external antenna. Permitted speaker impedance: 4 - 8 Ohm Can be installed as 1gang and in multiple combinations. Bluetooth specification: 4.2. Bluetooth profiles supported: A2DP Number of stored Bluetooth connections: max. 8 Control element: 4-button operation via floating rocker Display elements: ICU graphic display with 280 DPI. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Rated power: 2 W (RMS) Protection class (Device): IP 20 Temperature range (Device): 5 °C to 40 °C Dimensions: (L x W x D): 71 mm x 71 mm x 47 mm Mounting depth: 32 mm Bluetooth		
	8217 U-101-500	2CKA008200A0279	1/10

[1]) No claw. Screw-fixing via keyholes.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Radio iNet [1]) [2]) [3]) [4])** WLAN Internet radio alarm clock for flush-mounted installation. For the reception of national and international radio stations via Internet. Radio station search possible via various genres. With high resolution graphic display and background illumination. With external AUX input. Integrated web-server for configuration and control. Remote operation with smartphone via browser surface. UPnP replay function. It is controlled via smartphone. For mono/stereo operation. 8 radio stations storable. With time and date display. With alarm function. With short-time timer. With automatic switch-off function (automatic sleep mode). With extension input to remote-controlled ON/OFF switches. With integrated WLAN antenna. WLAN Standards: IEEE 802.11b / IEEE 802.11g and IEEE 802.11n (2,4 GHz). WLAN safety: WPA / WPA2. Permitted speaker impedance: 4 - 8 Ohm Can be installed as 1gang and in multiple combinations. Rated voltage: 110 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20 Temperature range (Device): 5 °C to 40 °C Dimensions: (L x W x D): 71 mm x 71 mm x 49 mm Mounting depth: 33 mm APP		
	8216 U-500	2CKA008200A0153	1/10

[1]) No claw. Screw-fixing via keyholes.
[2]) Matching loudspeaker insert 8223 U.
[3]) Can also be combined with built-in loudspeaker (8222 EB) and moist atmosphere loudspeaker (8224 EB).
[4]) To be mounted only in connection with commercially available flush-mounted installation boxes according to DIN 49073 > 40 mm depth gauge or Busch-Jaeger art. no. 3040, 3050 or 3060.

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Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty
	**Loudspeaker insert [1]) 5 cm (2")** With flat plug connector. With broadband characteristics. Rated output: 2 W (RMS) Incl. speaker connection cable. Frequency response: 200 - 20,000 Hz Impedance: 4 Ohm Protection class (Device): IP 20, SELV Mounting depth: 32 mm		
	8223 U-500	2CKA008200A0183	1/10

[1]) No claw. Screw-fixing via keyholes.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-powerDock Insert [1]) [2]) [3]) [4])** For charging and supplying mobile terminal devices. With quick charging function for devices compatible with quick-chargeTM. Makes possible fast charging of the mobile terminal device. Rated voltage: 100 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Suitable for: Apple terminal device Rated current: 2.1 A Output voltage: 5 V- Suitable for: Terminal device with USB-C connection Rated current: 2.1 A Output voltage: 5 V- Suitable for: Terminal device with quick-charge support and USB-C connection and quick-charge TM function. Rated current: 2 A Output voltage: 9 V- Protection class (Device): IP 20, SELV Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 32 mm Mounting depth: 32 mm		
	6473 U-500	2CKA006400A0039	1/10

[1]) No claw. Screw-fixing via keyholes.
[2]) The USB-C connection of the Busch-powerDock uses the quick charging function according to Qualcomm® Quick chargeTM 2.0 standard.
[3]) In rare cases the manufacturers of USB-C terminal devices support the quick-charging function independent of this standard only in case of charging devices that are the same as those of other manufacturers.
[4]) In these cases the quick-charging function of the terminal device is not enabled.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-powerDock Charging cradle with Apple lightning connection [1])** For Busch-powerDock insert 6473 U. For attaching mobile terminal devices with lightning connection. For iPhone XS Max, iPhone XS, iPhone XR, iPhone X. For iPhone 8 Plus, iPhone 8. For iPhone 7 Plus, iPhone 7. For iPhone SE. For iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6. For iPhone 5s, iPhone 5c, iPhone 5. For iPod touch (6th generation), iPod touch (5th generation), iPod nano (7th generation). Suitable for use with protective covers certified by Apple. Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 54 mm x 54 mm x 36 mm		
	6473-500	2CKA006400A0081	1/10

[1]) Not released for use with the iPad.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-powerDock Charging cradle with USB-C connection** For Busch-powerDock insert 6473 U. For attaching mobile terminal devices with USB-C connection. Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 54 mm x 54 mm x 36 mm		
	6473/11-500	2CKA006400A0083	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**USB power adapter insert, flush-mounted [1]) [2]) [3]) With USB-A & USB-C interface** For supply and support of mobile devices via USB-cable. With USB type A and USB type C female connector. To support two devices at the same time. Supports automatic negotiating of optimum charging parameters for the shortest charging times. Support of loading protocol on the USB-A connection: Apple MFI with 2.4 A and BC 1.2 with 1.5 A. Support of the additional quick-charge protocols: USB-PD and quick-charge 3.0 & 4.0. With electronic short-circuit protection. With electronic overload protection. Rated voltage: 230 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 2x USB charging interface Suitable for: Only USB-A bus occupied: Rated current: 3000 mA Output voltage: 5 V- Suitable for: Only USB-C bus occupied: Rated power: 18 W Suitable for: USB-A and USB-C bus occupied. Total: Rated current: 3250 mA Output voltage: 5 V- Protection class (Device): IP 20, SELV Temperature range (Device): 0 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 43 mm Mounting depth: 32 mm		
	6475 U-500	2CKA006400A0399	1

[1]) No claw. Screw-fixing via keyholes.
[2]) No data transfer.
[3]) When cleaning the device, use dust cover 2098 for the USB-A connection.

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Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty
	**HDMI connection unit [1])** **with screw-type terminals and strain relief** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To link high-definition digital audio and video data from e.g. SAT-receiver, DVD-/Blue-Ray-player to plasma-type, LCD- or-LED-TVs/screens. HDMI-type A, 3D-compatible. Fully HD ready (1920 x 1080 pixel). For 20-wire HDMI-cables via srew-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. For easy mounting and adhering to the admissible bending radii, the Kaiser >Electronic socket<, article number 1068-02 or 9062-74, is recommended. Without cover plate. Without claws. Protection class (Device): IP 20 Mounting depth: 34 mm		
white	**0261/31-500**	2CKA000230A0430	1
grey	**0261/33-500**	2CKA000230A0432	1
alpine white	**0261/32-500**	2CKA000230A0431	1

[1]) Please follow the recommendations of the cable and device producers for the max. HDMI cable lengths.

	**VGA connection unit [1])** **with screw-type terminals and strain relief** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To link analogue video data between PCs and laptops to monitors or digital projectors etc. VGA-type: D-type, 15-pole. Fully HD ready (1920 x 1080 pixel). For 15-wire VGA-cables via srew-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. For easy mounting and adhering to the admissible bending radii, the Kaiser >Electronic socket<, article number 1068-02 or 9062-74, is recommended. Without cover plate. Without claws. Protection class (Device): IP 20 Mounting depth: 34 mm		
white	**0261/21-500**	2CKA000230A0424	1
grey	**0261/23-500**	2CKA000230A0426	1
alpine white	**0261/22-500**	2CKA000230A0425	1

[1]) Please follow the recommendations of the cable and device producers for the max. VGA cable lengths.

Product	Article-No.	Order-No.	Pack/Qty
	**USB connection unit [1])** **with screw-type terminals and strain relief** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To link mobile devices like e.g. printer, scanner, USB-sticks or digital cameras etc. USB-type A, USB 2.0 compatible. For 5-wire USB- cables via srew-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. For easy mounting and adhering to the admissible bending radii, the Kaiser >Electronic socket<, article number 1068-02 or 9062-74, is recommended. Without cover plate. Without claws. Protection class (Device): IP 20 Mounting depth: 34 mm		
white	**0261/11-500**	2CKA000230A0418	1
grey	**0261/13-500**	2CKA000230A0420	1
alpine white	**0261/12-500**	2CKA000230A0419	1

[1]) Please follow the recommendations of the cable and device producers for the max. USB cable lengths.

	**Communication adapter** **for BNC-F Duct-jacks** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To support 1 or 2 jacks. For trunk systems, flush-mounted wall boxes and underfloor systems. Without cover plate. Without claws. Protection class (Device): IP 20		
white	**0262/11-500**	2CKA000230A0436	1
grey	**0262/13-500**	2CKA000230A0438	1
alpine white	**0262/12-500**	2CKA000230A0437	1

	**F duct-jack** **for communication adapter** For connection of antenna cables e.g.. for TVs with integrated TV-tuner and satellite receiver. With screw-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. Protection class (Device): IP 20		
metal clad	**0262-500**	2CKA000230A0440	1

	**Communication adapter** **for Cinch-jacks** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To support 1 or 2 jacks. For trunk systems, flush-mounted wall boxes and underfloor systems. Without cover plate. Without claws. Protection class (Device): IP 20		
white	**0263/11-500**	2CKA000230A0444	1
grey	**0263/13-500**	2CKA000230A0446	1
alpine white	**0263/12-500**	2CKA000230A0445	1

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Product	Article-No.	Order-No.	Pack/Qty
	**Cinch-jacks for communication adapter** To link analogue audio devices like audio-receiver, amplifier and HiFi-sets. Audio-band 20Hz - 20kHz. Marked white: audio , channel left. With soldering tag. Protection class (Device): IP 20		
alpine white	**0263/04-500**	2CKA000230A0451	1
	**Cinch-jacks for communication adapter** To link analogue audio devices like audio-receiver, amplifier and HiFi-sets. Audio-band 20Hz - 20kHz. Marked black: audio , channel left. With soldering tag. Protection class (Device): IP 20		
black	**0263/05-500**	2CKA000230A0452	1
	**Cinch-jacks for communication adapter** To link analogue audio devices like audio-receiver, amplifier and HiFi-sets. Audio-band 20Hz - 20kHz. Marked red: audio , channel left. With soldering tag. Protection class (Device): IP 20		
Red	**0263/06-500**	2CKA000230A0453	1
	**Cinch-jacks for communication adapter** For connecting analogue video devices, such as DVD players, hard disc recorders, video recorders or receivers. Marked yellow: audio , channel left. With soldering tag. Protection class (Device): IP 20		
yellow	**0263/07-500**	2CKA000230A0454	1
	**Communication adapter for Mini-jacks 3,5mm.** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To support 1 or 2 jacks. For trunk systems, flush-mounted wall boxes and underfloor systems. Without cover plate. Without claws. Protection class (Device): IP 20		
white	**0264/11-500**	2CKA000230A0458	1
grey	**0264/13-500**	2CKA000230A0460	1
alpine white	**0264/12-500**	2CKA000230A0459	1
	**Mini-jack 3,5 mm for communication adapter** For the connection of mobile terminal devices such as MP3 player (stereo), mobile telephone and smartphones. Audio-band 20Hz - 20kHz. With soldering tag. Protection class (Device): IP 20		
chrome gloss	**0264-500**	2CKA000230A0462	1

Product	Article-No.	Order-No.	Pack/Qty
	**Stereo loudspeaker connection box [1])** With screwless terminals (with screw-type terminals on the back). With 4 terminals. Cable cross-section max. 10 mm2. Polarity is indicated by color. With claw. Protection class (Device): IP 20		
white	**0248/02-101**	2CKA000230A0402	10/100

[1]) Suitable for cover telephone unit 1766-xxx and 2539-21x.

	**Stereo loudspeaker connection box [1])** With screwless terminals (with screw-type terminals on the back). With 4 terminals. Cable cross-section max. 10 mm2. Polarity is indicated by color. With claw. Protection class (Device): IP 20		

[1]) Suitable for cover telephone unit 1766-xxx and 2539-21x.

	**Stereo loudspeaker connection box [1])** With screwless terminals (with screw-type terminals on the back). With 4 terminals. Cable cross-section max. 10 mm2. Polarity is indicated by color. With claw. Protection class (Device): IP 20		
anthracite	**0248/05-101**	2CKA000230A0404	10/100

[1]) Suitable for cover telephone unit 1766-xxx and 2539-21x.

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Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For Busch-Radio DAB+ 8215 U-101. For Busch-Radio BTconnect DAB+ 8217 U-101. For Busch-Radio iNet 8216 U.		
anthracite	**8252-81-101-500**	2CKA008200A0249	10
ivory white	**8252-82-101-500**	2CKA008200A0251	10
studio white	**8252-84-101-500**	2CKA008200A0255	10
studio white matt [1])	**8252-884-101-500**	2CKA008200A0259	10
black matt [1])	**8252-885-101-500**	2CKA008200A0261	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For loudspeaker insert 8223 U.		
anthracite	**8253-81**	2CKA008200A0078	1/10
ivory white	**8253-82**	2CKA008200A0079	1/10
studio white	**8253-84**	2CKA008200A0081	1/10
studio white, matt [1])	**8253-884**	2CKA008200A0123	1/10
black matt [1])	**8253-885**	2CKA008200A0126	1/10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For telephone connection unit. For USB, VGA, HDMI inserts and communication adapter. USB power adapter insert 6472 U-500-101. USB power adapter insert 6475 U-101-500. For loudspeaker connection box. Suitable for part number 0248/0x-101. For data modules. Suitable for Art. No. 0219/12 and 0219/13. For modular outlets with 90° RJ45 outlet from Telegärtner (type MJ and WE). Protection class (Device): IP 20		
anthracite	**1766-81**	2CKA001710A3613	10
ivory white	**1766-82**	2CKA001710A3144	10/100
studio white	**1766-84-500**	2CKA001710A3992	10/100
studio white, matt [1])	**1766-884**	2CKA001710A3926	10
black matt [1])	**1766-885**	2CKA001710A3903	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **with metal mounting plate** With fixing claws. loudspeaker inserts and cover. With soldering tag. For covering universal data communication connectors and circular connectors with screwed plug M 16x0.75 (installable in insert) in accordance with DIN 41524, 41529, 45322, 45327, 45328 and 45329. Protection class (Device): IP 20		
anthracite	**1751-81**	2CKA001723A0253	10
ivory white	**1751-82**	2CKA001723A0239	10
studio white	**1751-84**	2CKA001723A0240	10/100
studio white, matt [1])	**1751-884**	2CKA001723A0260	10
black matt [1])	**1751-885**	2CKA001723A0259	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **with rotary control, with marking** As a cover for volume controllers. Suitable for the >LR mono BJ FM< devices of WHD. Protection class (Device): IP 20		
anthracite	**1740 DR/03-81**	2CKA001710A4120	10
ivory white	**1740 DR/03-82**	2CKA001710A3807	10
studio white	**1740 DR/03-84**	2CKA001710A3808	10
studio white, matt [1])	**1740 DR/03-884**	2CKA001710A3870	10
black matt [1])	**1740 DR/03-885**	2CKA001710A3892	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	Cover plate for Busch-powerDock For Busch-powerDock charging cradle.		
anthracite	**6477-81**	2CKA006400A0056	10
ivory white	**6477-82**	2CKA006400A0057	10
studio white	**6477-84**	2CKA006400A0059	10/100
studio white matt [1])	**6477-884**	2CKA006400A0062	10
black matt [1])	**6477-885**	2CKA006400A0063	10

[1]) Surface painted.

carat®
Room thermostats

Product	Article-No.	Order-No.	Pack/Qty



Room thermostat, flush-mounted [1] [2] [3]
Switch contact opens when the set temperature is reached.
With fixing claws.
Separate terminal to activate nighttime mode and reduction of room temperature by 4K.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 10 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1094 U-500	2CKA001032A0512	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3] Switching temperature difference: ± 0.5 K.



Room thermostat, flush-mounted [1] [2] [3]
Slide switch
With built-in slide switch and control lamp for nightly reduction of 4 K.
Switch contact opens when the set temperature is reached.
With fixing claws.
Separate terminal to activate nighttime mode and reduction of room temperature by 4K.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 10 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1095 U-500	2CKA001032A0514	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3] Switching temperature difference: ± 0.5 K.

Product	Article-No.	Order-No.	Pack/Qty



Room thermostat, flush-mounted [1] [2] [3]
Sliding switch, 24 V
With built-in slide switch and control lamp for nightly reduction of 4 K.
Switch contact opens when the set temperature is reached.
With fixing claws.
Separate terminal to activate nighttime mode and reduction of room temperature by 4K.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 24 V~
Rated current: 1 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1096 U	2CKA001032A0485	1
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat, e.g., Art. No. 6164/10 .
[3] Switching temperature difference: ± 0.5 K.



Room thermostat, flush-mounted [1] [2] [3]
1gang 2way
With fixing claws.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 5 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1097 U-500	2CKA001032A0513	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo valves of "closed or open when de-energized“ design are required for the controller. E.g. article no. 6164/10-101.
[3] Switching temperature difference: ± 0.5 K.

carat®
Room thermostats

Product	Article-No.	Order-No.	Pack/Qty



Room thermostat, flush-mounted [1] [2] [3]
Actual value indication
With actual value temperature display
Automatic controller calibration
Switch contact opens when the set temperature is reached.
With fixing claws.
Separate terminal to activate nighttime mode and reduction of room temperature by 4K.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 10 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1094 UTA	2CKA001032A0487	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3] Switching temperature difference: ± 0.5 K.



Room thermostat, flush-mounted [1] [2] [3]
Sliding switch, actual value indication
With actual value temperature display
Automatic controller calibration
Switch contact opens when the set temperature is reached.
With built-in slide switch and control lamp for nightly reduction of 4 K.
With fixing claws.
Separate terminal to activate nighttime mode and reduction of room temperature by 4K.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 10 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1095 UTA	2CKA001032A0488	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3] Switching temperature difference: ± 0.5 K.

Product	Article-No.	Order-No.	Pack/Qty



Room thermostat, flush-mounted [1] [2] [3]
Sliding switch, actual value indication, 24 V
With actual value temperature display
Automatic controller calibration
Switch contact opens when the set temperature is reached.
With built-in slide switch and control lamp for nightly reduction of 4 K.
With fixing claws.
Separate terminal to activate nighttime mode and reduction of room temperature by 4K.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 24 V~
Rated current: 1 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1096 UTA	2CKA001032A0489	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat, e.g., Art. No. 6164/10 .
[3] Switching temperature difference: ± 0.5 K.



Room thermostat, flush-mounted [1] [2] [3]
Change-over contact, actual value indication
With actual value temperature display
Automatic controller calibration
With fixing claws.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 5 A
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1097 UTA	2CKA001032A0490	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo valves of "closed or open when de-energized“ design are required for the controller. E.g. article no. 6164/10-101.
[3] Switching temperature difference: ± 0.5 K.



Room thermostat, flush-mounted [1] [2] [3]
Change-over contact, setpoint indication, timer
With change-over contact.
Easy adjustment using menu and text-based display.
4 switching times per day can be user-defined for each day of the week.
With fixing claws.
Automatic summer/wintertime switch-over
Power reserve > 10 hours.
To fit cover plate 6435-xxx.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 10 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9

	1098 U-101	2CKA001032A0508	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo valves of "closed or open when de-energized“ design are required for the controller. E.g. article no. 6164/10-101.
[3] Switching temperature difference: ± 0.5 K.

carat®
Room thermostats

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted [1])** **Remote sensor** With remote sensor and thermal feedback For underfloor heating. With built-in slide switch and control lamp for nightly reduction of 4 K. Switch contact opens when the set temperature is reached. With fixing claws. Remote sensor cable length: 4 m. Sensor =NTC, 10 kilo-ohm at 25 degrees C. Adjusting range: +10 to +50° C. Connecting cable: 1mm² to 2.5 mm² Separate terminal to activate nighttime mode and reduction of room temperature by 4K. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Rated current: 16 A, cos ϕ 1 Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1095 UF	2CKA001032A0497	1/10

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted [1]) [2])** **Change-over contact, setpoint indication, timer, remote sensor** With change-over contact. Easy adjustment using menu and text-based display. 4 switching times per day can be user-defined for each day of the week. With fixing claws. Automatic summer/wintertime switch-over Remote sensor cable length: 4 m. Sensor =NTC, 10 kilo-ohm at 25 degrees C. Power reserve > 10 hours To fit cover plate 6435-xxx. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Rated current: 16 A Temperature range (Device): 10 °C to 50 °C Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9		
	1098 UF-101	2CKA001032A0509	1/10

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2]) Servo valves of "closed or open when de-energized“ design are required for the controller. E.g. article no. 6164/10-101.

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted [1]) [2]) [3])** **Heating/cooling** With separate connection (230 V~) for external switchover between heating or cooling. Switch contact opens when the set temperature is reached. With fixing claws. Nominal current: 10 A heating Nominal current: 5 A cooling Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 12 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1099 UHK	2CKA001032A0515	1/10

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2]) Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3]) Switching temperature difference: ± 0.5 K.

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted [1]) [2]) [3])** **Heating/cooling, sliding switch** With built-in sliding switch for switchover between cooling or heating. Switch contact opens when the set temperature is reached. With fixing claws. Nominal current: 10 A heating Nominal current: 5 A cooling Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 12 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1099 UHKEA	2CKA001032A0516	1/10

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2]) Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3]) Switching temperature difference: ± 0.5 K.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **for room thermostat** For room thermostats 1094 U, 1097 U.		
anthracite	**1794-81**	2CKA001710A3629	10
ivory white	**1794-82**	2CKA001710A3543	10
studio white	**1794-84**	2CKA001710A3544	10
studio white, matt [1])	**1794-884**	2CKA001710A3884	10
black matt [1])	**1794-885**	2CKA001710A3907	10

[1]) Surface painted.

carat®
Room thermostats

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate for room thermostat** With sliding switch for nightly room temperature reduction. to activate nighttime mode and reduction of room temperature by 4K, for thermostats 1095 U, 1096 U and 1095 UF.		
anthracite	**1795-81**	2CKA001710A3630	10
ivory white	**1795-82**	2CKA001710A3568	10
studio white	**1795-84**	2CKA001710A3569	10
studio white, matt [1])	**1795-884**	2CKA001710A3886	10
black matt [1])	**1795-885**	2CKA001710A3909	10

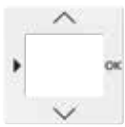
[1]) Surface painted.

	**Cover plate for room thermostat** For room thermostats 1094 UTA, 1097 UTA.		
anthracite	**1794 TA-81**	2CKA001710A3695	10
ivory white	**1794 TA-82**	2CKA001710A3696	10
studio white	**1794 TA-84**	2CKA001710A3698	10
studio white, matt [1])	**1794 TA-884**	2CKA001710A3883	10
black matt [1])	**1794 TA-885**	2CKA001710A3906	10

[1]) Surface painted.

	**Cover plate for room thermostat** With sliding switch for nightly room temperature reduction. For room thermostats 1095 UTA, 1096 UTA.		
anthracite	**1795 TA-81**	2CKA001710A3722	10
ivory white	**1795 TA-82**	2CKA001710A3723	10
studio white	**1795 TA-84**	2CKA001710A3725	10
studio white, matt [1])	**1795 TA-884**	2CKA001710A3885	10
black matt [1])	**1795 TA-885**	2CKA001710A3908	10

[1]) Surface painted.

	**Cover plate** For comfort timer control element 6455-101-500. For standard timer control element 6456-101. For room thermostats 1098 U-101 and 1098 UF-101. For short-time timer 6465 U-101. For Busch-CO2 sensor 1091 U-500. For blind compact timer 6422 U.		
anthracite	**6435-81**	2CKA006430A0303	10
ivory white	**6435-82**	2CKA006430A0304	10
studio white	**6435-84**	2CKA006430A0306	10
studio white, matt [1])	**6435-884**	2CKA006430A0388	10
black matt [1])	**6435-885**	2CKA006430A0389	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate for room thermostat** For room temperature controller 1099 UHK.		
anthracite	**1795 HK-81**	2CKA001710A4013	10
ivory white	**1795 HK-82**	2CKA001710A4015	10
studio white	**1795 HK-84**	2CKA001710A4017	10
studio white, matt [1])	**1795 HK-884**	2CKA001710A4019	10
black matt [1])	**1795 HK-885**	2CKA001710A4020	10

[1]) Surface painted.

	**Cover plate for room thermostat** For room temperature controller 1099 UHKEA. With sliding switch for switchover between cooling or heating.		
anthracite	**1795 HKEA-81**	2CKA001710A4045	10
ivory white	**1795 HKEA-82**	2CKA001710A4047	10
studio white	**1795 HKEA-84**	2CKA001710A4049	10
studio white, matt [1])	**1795 HKEA-884**	2CKA001710A4051	10
black matt [1])	**1795 HKEA-885**	2CKA001710A4052	10

[1]) Surface painted.

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LED light

Product	Article-No.	Order-No.	Pack/Qty
	**Info light unit [1] [2]** Size of information field 43 x 43 mm. Long service life of the lighting element (LEDs). Homogeneous backlighting of the information field. Colour temperature 6,500 K (cold white) Power consumption: < 0.5 W Rated voltage: 230 V~ Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20		
	2062 U	2CKA001511A0115	1/10

[1] Use relay inserts when switching through movement sensors or comfort switches.
[2] For switching the LED flush mounted insert use switches without orientation light only.

Product	Article-No.	Order-No.	Pack/Qty
	Cover plate [1] [2] As cover for flush-mounted info light. For insert 2062 U. Size of information field 43 x 43 mm. Protection class (Device): IP 20		
anthracite	**1716-81**	2CKA001731A1921	1
ivory white	**1716-82**	2CKA001731A1922	1
studio white	**1716-84**	2CKA001731A1923	1
studio white, matt [3]	**1716-884**	2CKA001731A1978	1
black matt [3]	**1716-885**	2CKA001731A1980	1

[1] Included with the cover are 46 different text labels and symbols.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **for indication lamp** For insert 2061/2661 U. As cover for flush-mounted light signal. Protection class (Device): IP 20		
anthracite	**1756-81**	2CKA001753A0089	10
ivory white	**1756-82**	2CKA001753A0090	10
studio white	**1756-84**	2CKA001753A0092	10
studio white, matt [1]	**1756-884**	2CKA001753A0251	10
black matt [1]	**1756-885**	2CKA001753A0252	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cap** **for indication lamp** For indication lamps. Protection class (Device): IP 20		
clear-transparent	**1565-11**	2CKA001565A0167	10
Red	**1565-12**	2CKA001565A0175	10
green	**1565-13**	2CKA001565A0183	10

WaveLINE inserts / control elements

Product	Article-No.	Order-No.	Pack/Qty
	**RF remote control** • Network-independent radio control. • For switching and dimming. • For controlling blinds and light scenes. • With 3 groups (A, B or C) with 5 pairs of channels. • There are 15 radio channels operated singly or up to 30 light scenes can be called.		
	6780	2CKA006780A0002	1
	**1-fach Aktor WaveLINE** • For wireless switching of electrical loads. • Functions via radio control: ON/OFF, timer and light scene control. • Functions via the extension unit: ON/OFF, timer and sending a radio control telegram. • Operation via conventional push button (2020 US/2021/6 UK) possible.		
	6701-101-500	2CKA006700A0040	1
	**1-fach Aktor WaveLINE** • For wireless switching of electrical loads. • For functions ON/OFF, timer and lightscene control. • For wall mounted transmitter Waveline 6731-xxx, 6732-xxx und 6733-xxx. • For remote control WaveLINE 6780. • Switch-off delay: Adjustable between 10 s to 5 min.		
	6702-500	2CKA006700A0023	1
	**2-fach Aktor WaveLINE** • For wireless switching of electrical loads. • For operation mode 2gang switch, 2 separate outputs. • For operation mode timer: output 1 (eg lighting), output 2: ON/Off delay in dependence of output 1 (eg fan control). • For functions: ON/OFF and light scene control. • For wall mounted transmitter Waveline 6731-xxx, 6732-xxx und 6733-xxx		
	6703-500	2CKA006700A0024	1
	**Dimm Aktor WaveLINE** • For wireless switching and dimming of electrical loads. • For functions ON/OFF, dimming and lightscene control. • With soft ON/OFF function. • With selectable light value storage. • For wall mounted transmitter Waveline 6731-xxx, 6732-xxx und 6733-xxx.		
	6704-500	2CKA006700A0025	1

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WaveLINE inserts / control elements

Product	Article-No.	Order-No.	Pack/Qty
	**Serien/Jalousieaktor WaveL** • For wireless switching of electrical loads. • For driving and adjusting blinds/shutters and awnings over radio. • Functions via radio control: 2gang switch, blind switch and light scene control. • Functions via extension unit: 2gang switch, blind switch and send radio control telegram. • Operation via conventional push button (2020 US/2021/6 UK) possible.		
	6705-101-500	2CKA006700A0042	1
	**2-fach Binärein. WaveLINE** • Radio control telegrams are sent when the two extension units are activated with mains voltage (AC 230 V~). • Operation via conventional push button (2020 US/2021/6 UK) possible. • The 2gang binary input has 5 function modes: 1) 2-channel switching 2) 2-channel dimming 3) 1 channel blind 4) Two-channel light scene control 5) Channel 1: Switching ON Channel 2: Continuous switching ON/OFF		
	6725-500	2CKA006720A0008	1
	**Wall-mounted transmitter WaveLINE [1] [2]** **4-channel** 4gang wall-mounted transmitter independent of mains power supply. With labelling field and labelling strip. For switching and dimming. For controlling blinds and light scenes. 4 radio channels can be operated or up to 8 light scenes can be called up. For flush-mounted WaveLINE actuators 6701-101, 6702, 6703, 6704 and 6705-101. Send frequency: 868 MHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery Type CR2032. Battery service life: typically 5 years, therefore practically maintenance-free. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Control element: rocker switch left/right Display elements: LED to indicate the transmission Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 16 mm		
ivory white	**6733-82-500**	2CKA006730A0034	1/10
studio white	**6733-84-500**	2CKA006730A0040	1/10

[1] Battery included in delivery.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

WaveLINE control elements

Product	Article-No.	Order-No.	Pack/Qty
	**Wall-mounted transmitter WaveLINE [1] [2]** **1-channel** 1gang wall-mounted transmitter independent of mains power supply. With labelling field and labelling strip. For switching and dimming. For controlling blinds and light scenes. 1 radio channel can be operated or up to 2 light scenes can be called up. For flush-mounted WaveLINE actuators 6701-101, 6702, 6703, 6704 and 6705-101. Compatible with WaveLINE KNX gateway TP-RF 6770. Send frequency: 868 MHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery Type CR2032. Battery service life: typically 5 years, therefore practically maintenance-free. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Control element: rocker switch left/right Display elements: LED to indicate the transmission Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 16 mm		
ivory white	**6731-82-500**	2CKA006730A0032	1/10
studio white	**6731-84-500**	2CKA006730A0038	1/10

[1] Battery included in delivery.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

Product	Article-No.	Order-No.	Pack/Qty
	**Wall-mounted transmitter WaveLINE [1] [2]** **2-channel** 2gang wall-mounted transmitter independent of mains power supply. With labelling field and labelling strip. For switching and dimming. For controlling blinds and light scenes. 2 radio channels can be operated or up to 4 light scenes can be called up. For flush-mounted WaveLINE actuators 6701-101, 6702, 6703, 6704 and 6705-101. Send frequency: 868 MHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery Type CR2032. Battery service life: typically 5 years, therefore practically maintenance-free. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Control element: rocker switch left/right Display elements: LED to indicate the transmission Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 16 mm		
ivory white	**6732-82-500**	2CKA006730A0033	1/10
studio white	**6732-84-500**	2CKA006730A0039	1/10

[1] Battery included in delivery.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

carat®

ZigBee Light Link inserts / control elements

Product	Article-No.	Order-No.	Pack/Qty
	**ZLL-Power supply insert** • With electronic short-circuit protection. • With electronic overload protection. • For ZigBee Light Link control element 6735-xxx, 6736-xxx and 6737-xxx. • Without control cover. • Rated voltage: 230 V~, +10 % / -10 % • Secondary: 5 V-, +5 % / -5 %		
	6710 U-500	2CKA006710A0005	1
	**ZLL-Relay insert** • 3 wire connection (neutral conductor required). • For switching retrofit LED lamps (LEDi). • For switching incandescent lamps, 230 V tungsten halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are actuated via transformers. • Without control cover.		
	6711 U-500	2CKA006710A0006	1
	**ZLL-Dimmer insert** • Touch dimmer. • For wireless switching and dimming of electrical loads. • 3 wire connection (neutral conductor required). • Optimised for dimming of retrofit LED lamps (LEDi). • For incandescent lamps, 230V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers and dimmable halogen energy-saving lamps.		
	6715 U-500	2CKA006710A0007	1
	**ZLL-Plug-in unit Switch** • Plug device for switching electric loads up to 1,380 W/VA. • Control of thermal positioners for heating control possible. • Not for electrical heating devices. • Connected load can be activated/deactivated via micro switch. • Send/receive frequency: 2.4 GHz.		
	6717-84-500	2CKA006710A0008	1

Product	Article-No.	Order-No.	Pack/Qty
	ZigBee Light Link wall-mounted transmitter 1-channel 1gang wall-mounted transmitter independent of mains power supply. For the wireless remote control of other ZigBee Light Link radio components. For saving and calling up 2 light scenes. For dimming a light scene. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery type CR2450 (included in scope of delivery) Battery service life: typically 3 years. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
anthracite	**6735/01-81**	2CKA006730A0079	1
ivory white	**6735/01-82**	2CKA006730A0080	1
studio white	**6735/01-84**	2CKA006730A0082	1/10
studio white, matt [1])	**6735/01-884**	2CKA006730A0118	1
black matt [1])	**6735/01-885**	2CKA006730A0119	1

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	ZigBee Light Link wall-mounted transmitter 2-channel 2gang wall-mounted transmitter independent of mains power supply. For the wireless remote control of other ZigBee Light Link radio components. For saving and calling up 4 light scenes. For dimming 2 light scenes. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery type CR2450 (included in scope of delivery) Battery service life: typically 3 years. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
anthracite	**6736/01-81**	2CKA006730A0083	1
ivory white	**6736/01-82**	2CKA006730A0084	1
studio white	**6736/01-84**	2CKA006730A0086	1/10
studio white, matt [1])	**6736/01-884**	2CKA006730A0124	1
black matt [1])	**6736/01-885**	2CKA006730A0125	1

[1]) Surface painted.

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WaveLINE control elements

Product	Article-No.	Order-No.	Pack/Qty
	**ZigBee Light Link wall-mounted transmitter 4-channel** 4gang wall-mounted transmitter independent of mains power supply. For the wireless remote control of other ZigBee Light Link radio components. For saving and calling up 8 light scenes. For dimming 4 light scenes. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery type CR2450 (included in scope of delivery) Battery service life: typically 3 years. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
anthracite	**6737/01-81**	2CKA006730A0087	1
ivory white	**6737/01-82**	2CKA006730A0088	1
studio white	**6737/01-84**	2CKA006730A0090	1/10
black matt [1])	**6737/01-885**	2CKA006730A0131	1
studio white, matt [1])	**6737/01-884**	2CKA006730A0130	1

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	ZigBee Light Link control element 1gang For wireless switching and dimming of electrical loads. For ZigBee Light Link flush-mounted inserts 6710 U, 6711 U and 6715 U. In connection with the ZigBee Light Link flush-mounted inserts 6711 U and 6715 U the top rocker is used to switch or dim the non-ZLL lamps connected to the flush-mounted insert directly. In the case of 6736 and 6737, the other keys can be used for saving, calling and dimming lightscenes. In combination with the ZigBee LightLink-UP insert 6710 U for storing and calling up 2 light scenes or dimming a light scene. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. Push-button function: Switching/dimming/light scenes. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
anthracite	**6735-81**	2CKA006730A0067	1
ivory white	**6735-82**	2CKA006730A0068	1
studio white	**6735-84**	2CKA006730A0070	1/10
black matt [1])	**6735-885**	2CKA006730A0101	1
studio white, matt [1])	**6735-884**	2CKA006730A0100	1

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	ZigBee Light Link control element 2gang For wireless switching and dimming of electrical loads. For ZigBee Light Link flush-mounted inserts 6710 U, 6711 U and 6715 U. In connection with the ZigBee Light Link flush-mounted inserts 6711 U and 6715 U the top rocker is used to switch or dim the non-ZLL lamps connected to the flush-mounted insert directly. In the case of 6736 and 6737, the other keys can be used for saving, calling and dimming lightscenes. In combination with the ZigBee LightLink-UP insert 6710 U for storing and calling up 4 light scenes or dimming 2 light scenes. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
anthracite	**6736-81**	2CKA006730A0071	1
ivory white	**6736-82**	2CKA006730A0072	1
studio white	**6736-84**	2CKA006730A0074	1/10
studio white, matt [1])	**6736-884**	2CKA006730A0106	1
black matt [1])	**6736-885**	2CKA006730A0107	1

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**ZigBee Light Link control element 4gang** For wireless switching and dimming of electrical loads. For ZigBee Light Link flush-mounted inserts 6710 U, 6711 U and 6715 U. In connection with the ZigBee Light Link flush-mounted inserts 6711 U and 6715 U the top rocker is used to switch or dim the non-ZLL lamps connected to the flush-mounted insert directly. In the case of 6736 and 6737, the other keys can be used for saving, calling and dimming lightscenes. In combination with the ZigBee LightLink-UP insert 6710 U for storing and calling up 8 light scenes or dimming 4 light scenes. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
anthracite	**6737-81**	2CKA006730A0075	1
ivory white	**6737-82**	2CKA006730A0076	1
studio white	**6737-84**	2CKA006730A0078	1/10
studio white, matt [1])	**6737-884**	2CKA006730A0112	1
black matt [1])	**6737-885**	2CKA006730A0113	1

[1]) Surface painted.

carat®

Busch-Infoline®

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1] [2]** **1gang, with labelling field** With operating knob. For signal/cancel push-button 1520/1 UK. For monitoring unit 1511 U. For Busch-Leakage guard insert 1531 U. With labelling field 61 x 20 mm. Protection class (Device): IP 20 Dimensions: (L x W x D): 63.5 mm x 63.5 mm x 11.1 mm		
studio white	**1571 CN-84**	2CKA001582A0346	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Can also be used for Busch-axcent®, solo®, and carat®.

	**Cover plate [1] [2]** **2gang, with labelling field** With operating knob. For signal push-button insert 1520/1 UKZ. With labelling field 61 x 20 mm. With exchangeable inlays in read and green for the individual designation of the operating knob. Protection class (Device): IP 20 Dimensions: (L x W x D): 63.5 mm x 63.5 mm x 11.1 mm		
studio white	**1572 CN-84**	2CKA001582A0348	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Can also be used for Busch-axcent®, solo®, and carat®.

	**Cover plate [1] [2]** **with red and neutral light panel and labelling field** For Alarm Control Unit insert 1515 U-12. For Busch-Alarm signal insert 1563 U-12. For indication lamp insert 1564 U-1x. With labelling field 61 x 61 mm. Protection class (Device): IP 20 Dimensions: (L x W x D): 63.5 mm x 63.5 mm x 11.1 mm		
studio white	**1573 CN-84**	2CKA001582A0350	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Can also be used for Busch-axcent®, solo®, and carat®.

	Cover plate [1] [2] **6gang, illuminable, with labelling field** For signal panel insert 1566 U. With labelling field 61 x 61 mm. Protection class (Device): IP 20 Dimensions: (L x W x D): 63.5 mm x 63.5 mm x 11.1 mm		
studio white	**1575 CN-84**	2CKA001582A0353	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Can also be used for Busch-axcent®, solo®, and carat®.

	Cover plate [1] [2] **with labelling field** For power supply insert 1518 U. For relay insert 1539 U. For signal generator insert 1561 U-.... With labelling field 61 x 61 mm. Protection class (Device): IP 20 Dimensions: (L x W x D): 63.5 mm x 63.5 mm x 11.1 mm		
studio white	**1576 CN-84**	2CKA001582A0355	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Can also be used for Busch-axcent®, solo®, and carat®.

Accessories

Product	Article-No.	Order-No.	Pack/Qty
	**Extension of claws [1]** For the installation of flush-mounted SCHUKO® socket outlets and also switches, push-buttons, etc. and deeply installed flush-mounted boxes. Protection class (Device): IP 20		
	2148	2CKA002148A0120	100

[1] Not suitable for types 2000/3 US, 2000/6/2 US, 2000/6/6 US-101 and double socket outlets.

	**Braille symbol** self-adhesive (transparent) for cover 2506-xxx Protection class (Device): IP 20		
	light		
	2144 LI	2CKA001714A0295	10/1000
	bell		
	2144 KI	2CKA001714A0296	10/1000
	key		
	2144 TR	2CKA001714A0297	10/1000

	**Braille symbol** **socket outlet** self-adhesive, transparent for SCHUKO® socket outlets with hinged lid 20 EUK-xxx Protection class (Device): IP 20		
	2144 ST	2CKA001714A0298	10/1000

	DIN A 4 labelling sheet [1] **plastic foil** Suitable for all to be labeled Busch-Jaeger devices. For laser printer. The text of the foil is printed via the Busch-Jeager labeling service. Dimensions: (L x W x D): 297 mm		
translucent	**1799/02**	2CKA001799A0959	1
transparent	**1799/03**	2CKA001799A0960	1

[1] 1 piece = 1 sheet.

	**RC suppressor** For protection against the damage or destruction of electronic devices due to overvoltages. For wiring network-interconnected inductivities (e.g.. relay, protection, fluorescent lamps, transformers, etc.). Eliminates functional disturbances on electronic devices, e.g. automatic circuit reclosure (clocking) of a movement detector. Dimensions: diameter 25 mm, length 35 mm, length of the connecting cable approx. 100 mm. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz		
	6899	2CKA006899A0231	10

carat®
Accessories

Product	Article-No.	Order-No.	Pack/Qty
	**Mounting set carat® flat [1] [2]** For flat flush-mounted installation, stonework Suitable for cover frame carat®. Set consists of a flush-mounted box for brickwork 3040. With plastering moulding tool and positioning device. With integrated RFID-chip for easy detection. With vertically adjustable rotary ring. With Torx/slotted screws. With variable basement depth. Mounting boxes are combinable directly. With flex knockouts for cables or pipes. The boxes need to be plastered. Hole size : 82 mm Protection class (Device): IP 20		
	1gang		
	3048/11	2CKA001740A0066	1/30
	2gang		
	3048/21	2CKA001740A0067	1
	3gang		
	3048/31	2CKA001740A0068	1
	4gang		
	3048/41	2CKA001740A0069	1

[1] RFID = Radio Frequency IDentification
[2] Not suitable for fixing claws.

	**Mounting set carat® flat** For flat flush-mounted installation, hollow wall Suitable for cover frame carat®. For double planking. Set consists of a flush-mounted box for cavity walls 3050. With positioning device and adapter rings. Suitable for drywalls and plasterboards for 9,5 mm, 10 mm and 12,5 mm. With Torx/slotted screws. Mounting boxes are combinable directly. With flex knockouts for cables or pipes. Fast installation via cable strap latches. A 74 mm diameter moulding cutter with countersink is needed. Hole size : 74 mm Protection class (Device): IP 20		
	1gang		
	3058/11	2CKA001740A0077	1
	2gang		
	3058/21	2CKA001740A0078	1/20
	3gang		
	3058/31	2CKA001740A0079	1
	4gang		
	3058/41	2CKA001740A0080	1

Product	Article-No.	Order-No.	Pack/Qty
	**Mounting set carat® flat** For flat flush-mounted installation, concrete construction Suitable for cover frame carat®. Suitable for prefabricated and in-situ concrete directly onto the formwork. Set consists of a flush-mounted box for concrete walls 3060. Delivered with a lid with distance positioning device. Fixing exclusively and directly to formwork by nailing or hot gluing. With Torx/slotted screws. Mounting boxes are combinable directly. With flex knockouts for pipes. Protection class (Device): IP 20		
	1gang		
	3068/11	2CKA001740A0088	1
	2gang		
	3068/21	2CKA001740A0089	1
	3gang		
	3068/31	2CKA001740A0090	1
	4gang		
	3068/41	2CKA001740A0091	1

	**Compensation rings for flush-mounted boxes** For additional compensation for too deep mounted flush-mounted boxes. Adjustment height: 2,6 mm Protection class (Device): IP 20		
	3057	2CKA001740A0081	10

	**RFID-Detector [1]** To recover of RFID-chips. Power supply: 9V alkaline cell (included in delivery). Protection class (Device): IP 20		
	3049	2CKA001740A0070	1

[1] RFID = Radio Frequency IDentification

carat®
Cover frames

Product	Article-No.	Order-No.	Pack/Qty
	**Cover frame [1])** **1gang frame** Protection class (Device): IP 20 Dimensions: (L x W x D): 107 mm x 107 mm x 11 mm		
white glass	**1721-811**	2CKA001754A4442	1
porcelain anthracite [2]) [3]) [4]) [5])	**1721-815**	2CKA001754A4820	1
bronze [2]) [3])	**1721-821**	2CKA001754A4258	1
gold [6])	**1721-823-101**	2CKA001754A4356	1
glass black	**1721-825**	2CKA001754A4322	1
chrome	**1721-826-101**	2CKA001754A4360	1
stainless steel	**1721-860**	2CKA001754A4254	1

[1]) Flat mounting possible, a mounting set flat Art.No. 30x8/xx must be used as a flush-mounted box.
[2]) Genuine material with an individual surface.
[3]) Each cover frame is unique in structure and color nuance.
[4]) Genuine material with an open-pore surface.
[5]) Genuine material with reduced resistance against mechanical stress.
[6]) Gold plated 24 carat.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover frame [1])** **2gang frame** For vertical or horizontal installation. Protection class (Device): IP 20 Dimensions: (L x W x D): 178 mm x 107 mm x 11 mm		
white glass	**1722-811**	2CKA001754A4443	1
porcelain anthracite [2]) [3]) [4]) [5])	**1721-815**	2CKA001754A4820	1
bronze [2]) [3])	**1722-821**	2CKA001754A4259	1
gold [6])	**1722-823-101**	2CKA001754A4357	1
glass black	**1722-825**	2CKA001754A4323	1
chrome	**1722-826-101**	2CKA001754A4361	1
stainless steel	**1722-860**	2CKA001754A4255	1

[1]) Flat mounting possible, a mounting set flat Art.No. 30x8/xx must be used as a flush-mounted box.
[2]) Genuine material with an individual surface.
[3]) Each cover frame is unique in structure and color nuance.
[4]) Genuine material with an open-pore surface.
[5]) Genuine material with reduced resistance against mechanical stress.
[6]) Gold plated 24 carat.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover frame [1])** **3gang frame** For vertical or horizontal installation. Protection class (Device): IP 20 Dimensions: (L x W x D): 249 mm x 107 mm x 11 mm		
white glass	**1723-811**	2CKA001754A4444	1
porcelain anthracite [2]) [3]) [4]) [5])	**1723-815**	2CKA001754A4822	1
bronze [2]) [3])	**1723-821**	2CKA001754A4260	1
gold [6])	**1723-823-101**	2CKA001754A4358	1
glass black	**1723-825**	2CKA001754A4324	1
chrome	**1723-826-101**	2CKA001754A4362	1
stainless steel	**1723-860**	2CKA001754A4256	1

[1]) Flat mounting possible, a mounting set flat Art.No. 30x8/xx must be used as a flush-mounted box.
[2]) Genuine material with an individual surface.
[3]) Each cover frame is unique in structure and color nuance.
[4]) Genuine material with an open-pore surface.
[5]) Genuine material with reduced resistance against mechanical stress.
[6]) Gold plated 24 carat.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover frame [1])** **4gang frame** For vertical or horizontal installation. Protection class (Device): IP 20 Dimensions: (L x W x D): 320 mm x 107 mm x 11 mm		
white glass	**1724-811**	2CKA001754A4445	1
bronze [2]) [3])	**1724-821**	2CKA001754A4261	1
gold [4])	**1724-823-101**	2CKA001754A4359	1
glass black	**1724-825**	2CKA001754A4325	1
chrome	**1724-826-101**	2CKA001754A4363	1
stainless steel	**1724-860**	2CKA001754A4257	1

[1]) Flat mounting possible, a mounting set flat Art.No. 30x8/xx must be used as a flush-mounted box.
[2]) Genuine material with an individual surface.
[3]) Each cover frame is unique in structure and color nuance.
[4]) Gold plated 24 carat.

Notes

Busch-dynasty®
Opulence with a story.

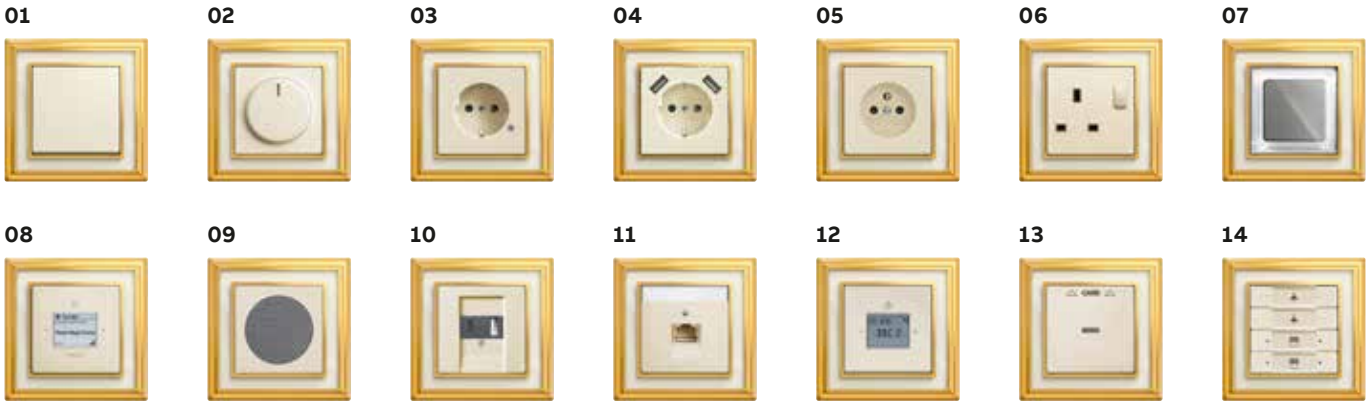
It's like a painting with a stylish frame. Inspired by a real fairy tale, which takes you to a different world. Exclusive design, the finest material and perfect effect. The frames decorated with curved latticework. Polished and antique brass. Beauty and functionality come together to attain perfection. Something unique for your residence.



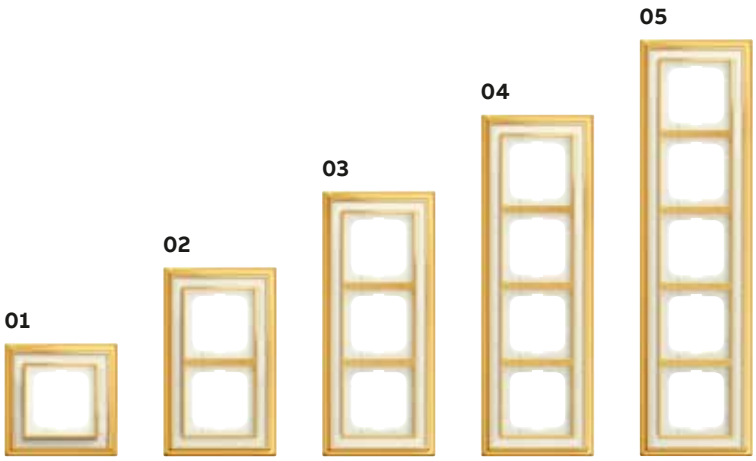
01 polished brass, decor, ivory white
02 polished brass, decor, anthracite
03 antique brass, decor, ivory white
04 antique brass, decor, anthracite
05 polished brass, ivory white
06 polished brass, anthracite
07 antique brass, ivory white
08 antique brass, anthracite
09 ivory white
10 anthracite

Busch-dynasty®

Selected functions.



01 Rocker switch 1gang
02 Rotary dimmer
03 SCHUKO® socket outlet with LED indicator light
04 SCHUKO® USB socket outlet, 2x USB A
05 Socket outlet with earthing pin
06 Switched socket outlet BS standard
07 Busch-iceLight®
08 Busch-AudioWorld® Busch-Radio iNet
09 Loudspeaker connection box
10 USB power adapter insert, USB A & C
11 RJ 45 connection socket
12 Busch-Radio DAB+
13 Intelligent card switch
14 KNX sensor, for more KNX products see part 12 of the catalogue - Intelligent Building Solutions



1 to 5gang cover frame for horizontal or vertical installation
01 106 x 106 mm
02 106 x 177 mm
03 106 x 283 mm
04 106 x 389 mm
05 106 x 495 mm

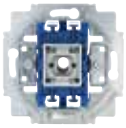
For more information about light switch ranges visit ABB global web sites.

Busch-dynasty®

Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	1gang 2way		
	2000/6 US-500	2CKA001012A2198	10/100
	2gang 1way		
	2000/5 US-500	2CKA001012A1150	10/100
	DP, 1gang 2way [3]		
	2000/6/2 US	2CKA001012A0954	10
	1gang		
	2000/7 US-500	2CKA001012A2199	10/100
	DP, 1gang 1way		
	2000/2 US-500	2CKA001012A2196	10/100
	SP, 1gang 1way switch		
	2000/1 US-500	2CKA001012A2059	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] With screw-type terminals. Non-illuminable.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	Switch-off and two-way circuit 16 A		
	2400/6 US-500	2CKA001012A2232	10/100
	2gang switch 16 A		
	2400/5 US-500	2CKA001012A2234	10
	1gang intermediate 16 A		
	2400/7 US-500	2CKA001012A2236	10

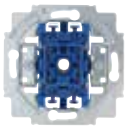
[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** **2gang 2way** With screwless terminals. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	2000/6/6US-101-500	2CKA001011A0928	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** **Changeover/changeover circuit 16 A** With screwless terminals. Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2400/6/6US-101-500	2CKA001022A0663	10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1] [2]** **DP, 1gang 1way** For switching high loads. Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2000/2 US-101-500	2CKA001012A2193	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Also for switching SCHUKO® socket outlets.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1] [2]** **3-pole, 1gang 1way switch** Rated voltage: 400 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2000/3 US	2CKA001011A0816	10

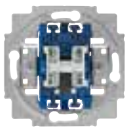
[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] With screw-type terminals. Non-illuminable.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** With neon lamp. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	1gang 2way [2]		
	2000/6 USGL-500	2CKA001012A2194	10/100
	2gang 1way		
	2000/5 USGL	2CKA001012A1135	10

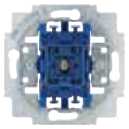
[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Replacement lamps 8360, 8362, and 8363 and LED inserts.

Busch-dynasty®

Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism, control [1])** **2gang switch with N-clamp 16 A** with LED, Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2400/5 USK-500	2CKA001012A2238	10

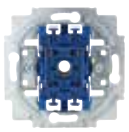
[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Rocker Switch Mechanism, control [1]) [2]) [3])** With neon lamp. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	1gang 2way with N-terminal		
	2000/6 USK-500	2CKA001022A0659	10/100
	DP, 1gang 1way		
	2000/2 UK	2CKA001022A0656	10

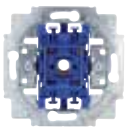
[1]) With 1 mA neon lamp.
[2]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[3]) Illuminable by using lamps 8360, 8362, 8363, 8365, 8366, and 8367 and LED inserts.

	**Rocker Switch Mechanism, control [1]) [2]) [3])** **Switch-off and two-way circuit with N-clamp 16 A** With neon lamp. Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2400/6 USK-500	2CKA001022A0661	10

[1]) With 1 mA neon lamp.
[2]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[3]) Illuminable by using lamps 8360, 8362, 8363, 8365, 8366, and 8367 and LED inserts.

	**Push-switch mechanism [1])** **SP, with normally open contact (operating current)** With N terminal. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 US-500	2CKA001413A0574	10/100

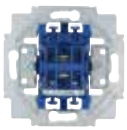
[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Push-switch mechanism [1])** **SP, with normally open contact (operating current)** With 2 independent signalling contacts. Rated voltage: 250 V~ Inputs: 1 Outputs: 1 Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 US-201	2CKA001413A0483	10

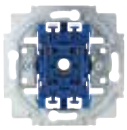
[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Push-switch mechanism [1]) [2]) [3])** **SP, with normally open contact (operating current)** With illumination. With N terminal. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 USGL-500	2CKA001413A1106	10/100

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2]) Replacement lamps 8360, 8362, and 8363 and LED inserts.
[3]) For relay and touch dimmer applications.

	**Push-switch mechanism [1])** With one input terminal and 2 actuating covers. Rated voltage: 250 V~ Inputs: 1 Outputs: 2x Normally open contact Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 US-205-500	2CKA001413A1105	10/100

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Push-switch mechanism [1])** **SP, 1gang 2way** Can be wired for normally open contacts (stand-by current) or normally closed contacts (operating current). With N terminal. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 US-206-500	2CKA001413A1104	10/100

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Rocker** For flush-mounted switch 1g1w, 1g2w, intermediate, push switch.		
anthracite	**1786-81-500**	2CKA001751A3079	10/100
ivory white	**1786-82-500**	2CKA001751A3083	10/100
antique brass [1])	**1786-840-500**	2CKA001751A3116	10/100

[1]) Real metal surface refined by hand.

Busch-dynasty®

Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker** For flush-mounted switch 2g 1w, 2g push switch.		
anthracite	**1785-81**	2CKA001751A2930	10
ivory white	**1785-82**	2CKA001751A2744	10/100
antique brass [1]	**1785-840-500**	2CKA001751A3117	10

[1] Real metal surface refined by hand.

	**Rocker** For flush-mounted switch 2g 1w, 2g push switch.		
anthracite	**1785 K-81-500**	2CKA001751A3122	10
ivory white	**1785 K-82-500**	2CKA001751A3124	10
antique brass [1]	**1785 K-840-500**	2CKA001751A3131	10

[1] Real metal surface refined by hand.

	**Rocker** **with red neon lens** As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way.		
anthracite	**1789-81**	2CKA001751A2928	10
ivory white	**1789-82**	2CKA001751A2813	10
antique brass [1]	**1789-840-500**	2CKA001751A3118	10

[1] Real metal surface refined by hand.

	**Rocker [1] [2]** **with labelling field** With pilot lamp for uniform illumination of the labelling field. For flush-mounted switch 1g1w, 1g2w, intermediate, push switch. Size of labelling field: 51 x 10 mm.		
anthracite	**1764 NLI-81**	2CKA001731A1552	10
ivory white	**1764 NLI-82**	2CKA001731A1876	10
antique brass [3]	**1764 NLI-840-500**	2CKA001731A2024	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Illumination using neon lamp 8353 or incandescent lamp 8344-1 and LED inserts.
[3] Plastic surface refined by hand.

	**Cover plate** For card switch. For insert 2025 U. Suitable for cards sized 54 x 86 mm. The inner part of the cover plate is made of light-conducting plastic, so that the card slot is illuminated.		
anthracite	**1792-81**	2CKA001710A3639	10
ivory white	**1792-82**	2CKA001710A3640	10
antique brass [1]	**1792-840-500**	2CKA001710A4078	10

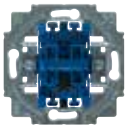
[1] Plastic surface refined by hand.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker** With marking. For flush-mounted switch 2g 1w, 2g push switch. With Marking " DO NOT DISTURB / MAKE UP ROOM"		
anthracite	**1785/11-81**	2CKA001751A3205	10
ivory white	**1785/11-82**	2CKA001751A2991	10
antique brass [1]	**1785/11-840-500**	2CKA001751A3119	10

[1] Real metal surface refined by hand.

	**Switch rocker with marking** As cover for flush-mounted rocker control switch insert, DND/MUR. DO NOT DISTURB MAKE UP ROOM Protection class (Device): IP 20		
anthracite	**1785/11 K-81**	2CKA001751A3212	10
ivory white	**1785/11 K-82**	2CKA001751A3214	10
antique brass [1]	**1785/11 K-840-500**	2CKA001751A3217	10

[1] Surface painted.

	**Rocker switch insert DND/MUR [1]** with LED, Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	2028 UK	2CKA001012A2240	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Rocker switch insert DND/MUR [1]** with LED, Rated voltage: 24 V Rated current: 6 A Protection class (Device): IP 20 IEC 60669-1		
	2028/12 UK	2CKA001012A2241	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Bell push-switch DND/MUR 230 V [1]** with LED, Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
anthracite	**2029 UC-81**	2CKA001751A3167	1
ivory	**2029 UC-82**	2CKA001751A3168	1
antique brass [2]	**2029 UC-840-500**	2CKA001751A3230	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Surface painted.

Busch-dynasty®

Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Bell push-switch DND/MUR 24 V [1]** with LED, Rated voltage: 24 V Rated current: 6 A Protection class (Device): IP 20 IEC 60669-1		
anthracite	**2029/12 UC-81**		1
ivory	**2029/12 UC-82**	2CKA001751A3236	1
antique brass [2]	**2029/12 UC-840-500**	2CKA001751A3239	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Surface painted.

	**Card switch 10 A [1]** **SP, with normally open contact (operating current)** Illuminable. With N terminal. Rated voltage: 250 V~ Rated current: 10 A Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20IEC60669-1, British Standard EN 60669-1		
	2025 U	2CKA001012A1713	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
delivery form:	Adapter plate APBS to be ordered separate.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Friends of Hue smart switch insert** **Wall-mounted transmitter, 2 channel** For Friends of Hue smart switch Rocker 6736 FoH-8xx. Smarter light switches for wireless remote control of Philips Hue lamps For switching and dimming of Philips Hue lamps. For saving, calling up and dimming of a maximum of 2 individual light scenes. Without battery and maintenance-free due to >Energy harvesting<. Maximum safety of function by means of Zigbee-Mesh technology. Requires Philips Hue Bridge (2nd generation; square construction type) and Philips Hue app (Version 3.2 or higher). Combinable with the Busch-Jaeger switch ranges carat®, Busch-dynasty®, pure stainless steel, solo®, Busch-axcent® and future® linear. Can be mounted freely in the room with the enclosed adhesive tape and fixing plate. Including fixing plate for mounting on smooth walls or on switch boxes.		
	6716 U-500	2CKA006710A0014	1

Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker [1]** For Friends of Hue smart switch insert 6716 U-500. Combinable with the Busch-Jaeger switch ranges carat®, Busch-dynasty®, pure stainless steel, solo®, Busch-axcent® and future® linear.		
anthracite	**6736 FoH-81**	2CKA006730A0133	1
ivory	**6736 FoH-82**	2CKA006730A0134	1
antique brass	**6736 FoH-840-500**	2CKA006730A0138	1

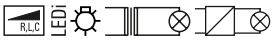
[1] Surface painted.

Busch-dynasty®
Dimmers

Product	Article-No.	Order-No.	Pack/Qty



Busch-rotary dimmer [1] [2] [3] [4] [5] [6] [7] [8] [9]
Flush-mounted, LED, 2-100 W
With rotary control, two-way switch and soft-catch.
2-wire connection (neutral conductor not required)
Optimised for dimming of retrofit LED lamps (LEDi).
For dimmable Retrofit-LEDs (LEDi).
For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers.
For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps.
Mix operaton of LEDi with conventional loads possible.
Via mode switch adjustable between leading edge control and trailing edge control.
Low-noise level by MOSFET transistors.
With electronic short-circuit protection.
With electronic overload protection.
With adjustable minimum brightness.
Without cover plate.
Rated voltage: 230 V~, + 10% / - 10%
Rated frequency: 50 Hz/60 Hz
Nominal power: 2 - 100 W/VA (retrofit LED loads).
Nominal power: 10 - 250 W/VA (non-LED loads).
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °CIEC 60669-2-1, British Standard EN 60669-2-1



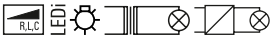
	6523 U-102-500	2CKA006512A0335	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] In case of electronic transformers, 5 % transformer losses.
[4] Also applicable for 1gang 2way installations.
[5] Provided with terminal for net disconnection devices.
[6] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[7] Recommendation: Please use loads and types of one producer.
[8] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[9] A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

Product	Article-No.	Order-No.	Pack/Qty



Busch-rotary dimmer [1] [2] [3] [4] [5] [6] [7] [8] [9]
UP, LED, 2-400 W
Very small installation depth: < 20 mm
Without claws.
With rotary control, two-way switch and soft-catch.
2-wire connection (neutral conductor not required)
Optimised for dimming of retrofit LED lamps (LEDi).
For dimmable Retrofit-LEDs (LEDi).
For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers.
For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps.
Mix operaton of LEDi with conventional loads possible.
With manually adjustable operating mode: trailing / leading edge control.
With adjustable minimum/maximum brightness.
Low-noise level by MOSFET transistors.
With electronic short-circuit protection.
With electronic overload protection.
Without cover plate.
Rated voltage: 230 V~, + 10% / - 10%
Rated frequency: 50 Hz/60 Hz
Nominal power: 2 - 100 W/VA (leading edge control)
Nominal power: 2 - 400 W/VA (trailing edge control)
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °CIEC 60669-2-1, British Standard EN 60669-2-1



	6523 UR-103-500	2CKA006512A0345	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] In case of electronic transformers, 5 % transformer losses.
[4] Also applicable for 1gang 2way installations.
[5] Provided with terminal for net disconnection devices.
[6] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[7] Recommendation: Please use loads and types of one producer.
[8] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[9] A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

Busch-dynasty®
Dimmers

Product	Article-No.	Order-No.	Pack/Qty



END OF LIFE

Busch-rotary dimmer [1] [2] [3] [4]
flush mounted, R, 60-600 W
With rotary control, 2way On-Off switching and soft-catch.
Leading Edge control.
For incandescent lamps and 230 V tungsten halogen lamps.
With adjustable minimum brightness.
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 60 - 600 W
IEC 60669-2-1, British Standard EN 60669-2-1

	2250 U-500	2CKA006515A0848	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] Also applicable for 1gang 2way installations.
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Provided with terminal for net disconnection devices.



Busch-rotary dimmer [1] [2] [3] [4] [5]
flush mounted, RL, 20-500 W
With rotary control, 2way On-Off switching and soft-catch.
Leading Edge control.
For incandescent lamps, 230 V tungsten halogen lamps and low-volt halogen lamps with conventional transformer.
With adjustable minimum brightness.
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 20 - 500 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1

	2247 U-500	2CKA006512A0302	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] Provided with terminal for net disconnection devices.
[4] Also applicable for 1gang 2way installations.
[5] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty



Busch-rotary dimmer [1] [2] [3] [4] [5] [6]
UP, RL, 200-700 W
With rotary control, 2way On-Off switching and soft-catch.
Leading Edge control.
For incandescent lamps, 230 V tungsten halogen lamps and low-volt halogen lamps with conventional transformer.
Short-circuit-proof, overload-protected.
With adjustable minimum brightness.
Without cover plate.
Without claws.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 200 - 700 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1

	6520 U-500	2CKA006520A0227	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] Provided with terminal for net disconnection devices.
[4] Also applicable for 1gang 2way installations.
[5] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[6] Should be mounted in a seperate wallbox.



Busch-rotary dimmer, extension [1] [2]
flush mounted
for connection to 6591 U-101,
To be used with Busch-Dimmer®, MDRC 6583.
with soft-catch
A maximum of 5 multi-way extensions can be connected to a 6591U-101,
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz

	6592 U-500	2CKA006513A0590	1

[1] Control elements 2115-xxx and 6540-xxx.
[2] Required for illuminating the N-connection control element.



Busch-rotary dimmer [1] [2] [3] [4]
flush mounted, 1-10V
With rotary control.
For controlling ballast units for fluorescent lamps with control output 1-10 V DC, control current max. 50 mA DC.
For LED control via control gears
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Rated power: 700 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1

	2112 U-101-500	2CKA006599A2873	1/10

[1] Non-illuminable.
[2] Use cover plates 2115 J-.../2115-.../6540-... .
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Making-current limiters have to be provided in case of too high making currents.

Busch-dynasty®
Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-rotary dimmer [1])** **Flush-mounted, DALI, tunable white** For DALI broadcast service (via central telegram). For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface. With rotary control and ON/OFF push operation. Fool proved. For changing the colour temperature of >tunable white< lamps, which meet DALI Standard IEC 62386-209 (Device Type 8). Colour temperature can then be set between 2,700 K - 6,500 K. Brightness power-on level and backround brightness level adjustable, buffered. With integrated LED illumination for orientation. Color of orientation light adjustable (18 presets and OFF). Up to 5 potentiometers are connectable in parallel. Max. current consumption: 15 mA. Not suitable for combining with other DALI sensors or central units of other manufacturers. For the generation of the DALI voltage a power supply according to IEC 62386 is required; e.g. from Tridonic, Philips, Helvar or BJE article no. 2116/11 U. Max. DALI-cable length: 300 m (1,5 - 2,5 mm²). Without cover plate. Protection class (Device): IP 20 Temperature range (Device): 0 °C to 35 °C		
	2116 U	2CKA006599A3025	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-rotary dimmer [1])** **Flush-mounted, DALI, with internal power supply, tunable white** For DALI broadcast service (via central telegram). With integrated DALI power adaptor. For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface. With rotary control and ON/OFF push operation. For changing the colour temperature of >tunable white< lamps, which meet DALI Standard IEC 62386-209 (Device Type 8). Colour temperature can then be set between 2,700 K - 6,500 K. With electronic short-circuit protection. With electronic overload protection. Brightness power-on level and backround brightness level adjustable, buffered. With integrated LED illumination for orientation. Color of orientation light adjustable (18 presets and OFF). Up to 5 potentiometers are connectable in parallel. Up to 3 potentiometers are connectable in parallel in active mode. Not suitable for combining with other DALI sensors or central units of other manufacturers. DALI-voltage: 15,5 V= Rated current: max. 75 mA Power consumption: < 2,5 W Number of DALI-units: 37 in case of one active power-potentiometer in case of three active power-potentiometer in parallel connection: 111 Active mode: the potentiometer is supporting the necessary control circuit for other DALI-devices. Passive mode: the potentiometer is suitable as additional operation point. Max. DALI-cable length: 300 m (1,5 - 2,5 mm²). Without cover plate. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20 Temperature range (Device): 0 °C to 35 °C		
	2116/11 U	2CKA006599A3026	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

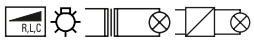
Busch-dynasty®
Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-rotary dimmer [1])** **flush mounted, DALI** For DALI broadcast service (via central telegram). For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface. With rotary control and ON/OFF push operation. Fool proved. Brightness power-on level and backround brightness level adjustable, buffered. With integrated LED illumination for orientation. Color of orientation light adjustable (18 presets and OFF). Up to 5 potentiometers are connectable in parallel. Max. current consumption: 15 mA. Not suitable for combining with other DALI sensors or central units of other manufacturers. An additional DALI power supply is needed, e.g. by Tridonic, Philips, Helvar or 2117/11 U. Max. DALI-cable length: 300 m (1,5 - 2,5 mm²). Without cover plate. Protection class (Device): IP 20 Temperature range (Device): 0 °C to 35 °C		
	2117 U-500	2CKA006599A2987	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-rotary dimmer [1])** **flush mounted, DALI, with internal power supply** For DALI broadcast service (via central telegram). With integrated DALI power adaptor. For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface. With rotary control and ON/OFF push operation. With electronic short-circuit protection. With electronic overload protection. Brightness power-on level and backround brightness level adjustable, buffered. With integrated LED illumination for orientation. Color of orientation light adjustable (18 presets and OFF). Up to 5 potentiometers are connectable in parallel. Up to 3 potentiometers are connectable in parallel in active mode. Not suitable for combining with other DALI sensors or central units of other manufacturers. DALI-voltage: 15,5 V= Rated current: max. 75 mA Power consumption: < 2,5 W Number of DALI-units: 37 in case of one active power-potentiometer in case of three active power-potentiometer in parallel connection: 111 Active mode: the potentiometer is supporting the necessary control circuit for other DALI-devices. Passive mode: the potentiometer is suitable as additional operation point. Max. DALI-cable length: 300 m (1,5 - 2,5 mm²). Without cover plate. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20 Temperature range (Device): 0 °C to 35 °C		
	2117/11 U-500	2CKA006599A2988	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-touch dimmer [1]) [2]) [3]) [4])** **flush mounted, RLC, 60-420 W** With light-level memory and intelligence for universal operation. Selectable Soft-ON/OFF function and memory function. Capacity expansion via output-side, parallel connectable load line with a power module 6594 U up to 735 W/VA possible. For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers. Short-circuit-proof, overload-protected. With touch control. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Without control cover. For control cover with control lamp 6543-xxx-10x. For Busch-Remote control IR control cover 6066-xxx-10x. For comfort timer control element 6455-101-500. For Busch-Watchdog 180 flush-mounted Sensor Standard 6810-21x-101. For Busch-Watchdog 180 flush-mounted sensor Comfort II 6800-xxx-104 and 6800-xxx-104M. For Busch-Watchdog Presence tech 6813-xxx-101 und 6813/11-xxx. Combinable with Busch-Watchdog extension insert 6805 U. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Rated power: 60 - 420 W Rated power: 60 - 420 W/VA IEC 60669-2-1, British Standard EN 60669-2-1 		
	6593 U-500	2CKA006590A0171	1/10

[1]) In the case of conventional transformers, take ~20% transformer loss into account.
[2]) In case of electronic transformers, 5 % transformer losses.
[3]) In conjunction with 6800-xxx-104 (M) a Soft Off can be adjusted.
[4]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Dimmer®, capacity booster [1])** **flush mounted, RLC, 200-315 W** The control is effected by a Busch-Universal master dimmer 6593 U or Busch-Universal rotary dimmer 6591U-101 For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers. Can only be installed in conjunction with a cover plate 2114-xxx and 6541-xxx. Without cover plate. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Rated power: 200 - 315 W/VA IEC 60669-2-1, British Standard EN 60669-2-1 		
	6594 U-500	2CKA006590A0172	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Busch-dynasty®
Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1]) with rotary knob, with indication lamp** Elevated knob. For Busch-Dimmer®. For inserts 2112 U-101/2247 U/2250 U/6513 U-102/6517 U-10x/ 6519 U/6520 U/6523 U(R)(10x) /6591 U-10x and 6592 U.		
anthracite	**6540-81-102**	2CKA006599A2950	10
ivory white	**6540-82-102**	2CKA006599A2951	10/100
antique brass [2])	**6540-840-102-500**	2CKA006599A3022	10

[1]) Replacement neon lamp, Art. No. 3855.
[2]) Real metal surface refined by hand.

Product	Article-No.	Order-No.	Pack/Qty
	**Control element [1]) [2]) [3]) with neon lamp** Can be combined with LED dimmer 6524 U, and 6526 U, Busch-Universal touch-type controller 6550 U-10x, Busch-Memory touch dimmer 6560 U-101, Busch-Universal-Dimmer® 6593 U, Busch-Universal relay insert 6401 U-10x, Busch-Universal 2gang insert 6402 U.		
anthracite	**6543-81-101**	2CKA006599A2881	1/10
ivory white	**6543-82-101**	2CKA006599A2831	1/10
antique brass [4])	**6543-840-101-500**	2CKA006599A3023	1/10

[1]) Compatible with previous type 6543-xxx.
[2]) Touch-type Controller 6550 U-xxx non-illuminable.
[3]) Replacement neon lamp 3857.
[4]) Real metal surface refined by hand.

Product	Article-No.	Order-No.	Pack/Qty
	**LED dimmer insert flex, 1gang [1]) [2]) [3]) [4]) [5]) [6]) FM, LED, 3-240 VA** 2-wire connection (neutral conductor not required). Neutral conductor optionally connectable (recommended for the connection of low loads < 10 W/VA). Touch dimmer for switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. With manually adjustable operating mode: trailing / leading edge control. With adjustable minimum brightness. With light-level memory and minimum brightness memory. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. Without control cover. For control element flex, 1gang, 64711. For control element flex, 2gang, 64721. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Rated power: 3-240 VA (LEDi). Rated voltage: 230 V~, +10 % / -10 %. Rated frequency: 50 Hz. Inputs: 1. Outputs: 1x dimming channel. Suitable for: 230 V LEDi, typical (leading edge control). Rated power: 3 - 100 VA. Suitable for: 230 V LEDi, typical (trailing edge control). Rated power: 3 - 240 W. Suitable for: 230 V incandescent lamps, 230 V halogen lamps and low-voltage halogen lamps with conventional transformers or Busch Electronic Transformer. Rated power: 10 - 240 VA.Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm. Mounting depth: 25 mmIEC 60669-2-1, British Standard EN 60669-2-1 		
	64851 U-500	2CKA006500A0013	1

[1]) In the case of conventional transformers, take ~20% transformer loss into account.
[2]) In case of electronic transformers, 5 % transformer losses.
[3]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4]) Recommendation: Please use loads and types of one producer.
[5]) The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[6]) A liability on the part of Buscah-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

	**Control element, 1 gang flex** Tapping control element, 1gang. Compatible with all free@home flex inserts. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64711-500	2CKA006400A0099	1

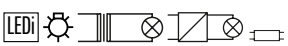
Busch-dynasty®
Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**Control element, 1 gang, flex wireless** Tapping control element, 1gang. For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@ home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62711-WL-500	2CKA006200A0281	1
	**Flex control element, 2 gang flex** Tapping control element, 2gang For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64721-500	2CKA006400A0101	1
	**Control element, 2 gang, flex wireless** Tapping control element, 2gang For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@ home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62721-WL-500	2CKA006200A0283	1
	**Rocker** **1gang, with “Dimmer” icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
anthracite	SRD-1-81	2CKA006220A0149	1
ivory white	SRD-1-82	2CKA006220A0520	1
	**Rocker** **2gang left, with “Dimmer” icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
anthracite	SRD-2-L-81	2CKA006220A0164	1
ivory white	SRD-2-L-82	2CKA006220A0525	1

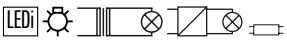
Product	Article-No.	Order-No.	Pack/Qty
	**Rocker** **2gang right, with “Scene” icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
anthracite	SRS-2-R-81	2CKA006220A0173	1
ivory white	SRS-2-R-82	2CKA006220A0528	1

Busch-dynasty®

Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Proximity switch** 3 wire connection (neutral conductor required). Relay insert with proximity sensor. For contactless ON/OFF switching of electric loads, e.g. lights. For switching incandescent lamps, 230 V tungsten halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are actuated via transformers. Switches when detecting an approach at < approx. 5 cm. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V incandescent lamps, 230 V halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are operated via transformers. Rated current: 10 AX Rated power: 2300 W/VA Temperature range (Device): -25 °C to 55 °CBritish Standard EN 60669-2-1 		
	6406 U	2CKA006400A0034	1
	Cover plate **Proximity switch** For proximity switch 6406 U.		
anthracite	**6476-81**	2CKA006470A0007	1/10
ivory white	**6476-82**	2CKA006470A0003	10
	**Relay insert flex, 1gang [1])** 3 wire connection (neutral conductor required). For switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Comfort switch flex control element 64765-... . For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with extension insert, 64891 U. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 1 Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V- LEDi, typical. Rated power: 300 VA Suitable for: 230 V incandescent lamps/230 V halogen lamps. Rated power: 2300 W Suitable for: Low voltage halogen lamps that are operated via transformers. Rated power: 2300 VA Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm Mounting depth: 25 mm 		
	64811 U-500	2CKA006800A3042	1/10

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Relay insert flex, 2gang [1])** 3 wire connection (neutral conductor required). For switching lighting systems. For switching two independent load circuits. For controlling light and ventilation systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Comfort switch flex control element 64765-... . For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with extension insert, 64891 U. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 2 Outputs: 2x Normally open contact, potential-bound Suitable for: 230 V- LEDi, typical. Rated power: 300 VA Suitable for: 230 V incandescent lamps/230 V halogen lamps Rated power: 1840 W Suitable for: Low voltage halogen lamps that are operated via transformers. Rated power: 1150 VA Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm Mounting depth: 25 mm 		
	64821 U-500	2CKA006800A3045	1

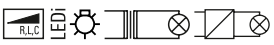
[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Busch-dynasty®

Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**e-contact insert flex, 1gang [1] [2]** 2-wire connection (neutral conductor not required) Neutral conductor optionally connectable (recommended for the connection of low loads < 10 W/VA). For switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with extension insert, 64891 U. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 1 Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V- LEDi, typical. Rated power: 3 - 240 VA Suitable for: 230 V incandescent lamps/230 V halogen lamps Rated power: 10 - 240 W Suitable for: Low voltage halogen lamps that are operated via transformers. Rated power: 3 - 240 VA Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm Mounting depth: 25 mm 		
	64814 U-500	2CKA006800A3048	1

[1] Use only dimmable high-voltage LEDs.
[2] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**LED dimmer insert flex, 1gang [1] [2] [3] [4] [5] [6]** **FM, LED, 3-240 VA** 2-wire connection (neutral conductor not required) Neutral conductor optionally connectable (recommended for the connection of low loads < 10 W/VA). Touch dimmer for switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. With manually adjustable operating mode: trailing / leading edge control. With adjustable minimum brightness. With light-level memory and minimum brightness memory. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. Without control cover. For control element flex, 1gang, 64711. For control element flex, 2gang, 64721. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Rated power: 3-240 VA (LEDi) Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 1 Outputs: 1x dimming channel Suitable for: 230 V LEDi, typical (leading edge control) Rated power: 3 - 100 VA Suitable for: 230 V LEDi, typical (trailing edge control) Rated power: 3 - 240 W Suitable for: 230 V incandescent lamps, 230 V halogen lamps and low-voltage halogen lamps with conventional transformers or Busch Electronic Transformer. Rated power: 10 - 240 VA Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm Mounting depth: 25 mmIEC 60669-2-1, British Standard EN 60669-2-1 		
	64851 U-500	2CKA006500A0013	1

[1] In the case of conventional transformers, take ~20% transformer loss into account.
[2] In case of electronic transformers, 5 % transformer losses.
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Recommendation: Please use loads and types of one producer.
[5] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[6] A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

Busch-dynasty®

Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Extension insert flex** [1] 3 wire connection (neutral conductor required). For the extension of the Busch-Comfort switch or presence detector installations. For group control of flex inserts via extension unit communication. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with all flex inserts. Rated voltage: 230 V~, +10 % / -10 %, Rated frequency: 50 Hz Control/Signal outputs: 1, electronic output, potential-bound Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm Mounting depth: 25 mm		
	64891 U-500	2CKA006800A3051	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Comfort switch flex sensor** Movement detector push-button switch combination. For switching lighting systems that depend on brightness and movement. Push switch function possible at all times. Extension of the detection range by means of master/slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. Adjustable operating mode: automatic mode, automatic (motion-controlled) switch-on and switch-off. Adjustable operating mode: semiautomatic, manual switch-on, automatic (timer and movement-controlled) switch-off. Adjustable operating mode: automatic mode, automatic switch-on, manual switch-off. With continuous light/continuous Off function. Adjusting elements on rear side. Surveillance density: 9 sectors with 28 switching segments. Switch-off delay: 1 to 10 min., adjustable. Compatible with all free@home flexTronics inserts. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Please order the respective flush-mounted insert separately. The range specifications refer only to an ambient temperature of 21°C.		
	64765-81-500	2CKA006800A2883	–
	64765-82-500	2CKA006800A2835	–
	64765-840-500	2CKA006800A2896	–

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flex, basic sensor** [1] [2] **with select-lens** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Compatible with all free@home flex inserts. Adjusting elements on rear side. Extension of the detection range by means of master/slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. With detection display in test mode. Surveillance density: 14 sectors with 56 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 22 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Detection range: frontal: 12 m, lateral: 12 m, Mounting height: 1.1 m. Detection angle: 180 ° Brightness limit value: 5 Lux - 500 Lux Up to daytime operation. Mounting height: 0.8 m - 1.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 35 mm		
anthracite	**64761-81-500**	2CKA006800A2921	1
ivory white	**64761-82-500**	2CKA006800A2923	1
antique brass [3]	**64761-840-500**	2CKA006800A2934	1

[1] Please order the respective flush-mounted insert separately.
[2] The range specifications refer only to an ambient temperature of 21°C.
[3] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flex, comfort sensor** [1] [2] **with select-lens** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Push switch function possible at all times. In combination with dimmer insert flex: dimming function of lighting and selectable light value storage. With enabling of pre-warning of switch-off for stairwell operation. Compatible with all free@home flex inserts. Adjusting elements on rear side. Extension of the detection range by means of master/slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. With continuous light/continuous Off function. With detection display in test mode. Surveillance density: 14 sectors with 56 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 22 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Detection range: frontal: 12 m, lateral: 12 m, Mounting height: 1.1 m Detection angle: 180 °. Brightness limit value: 5 Lux - 500 Lux Up to daytime operation. Mounting height: 0.8 m - 1.2 m. Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 35 mm		
anthracite	**64762-81-500**	2CKA006800A2958	1
ivory white	**64762-82-500**	2CKA006800A2960	1
antique brass [3]	**64762-840-500**	2CKA006800A2971	1

[1] Please order the respective flush-mounted insert separately.
[2] The range specifications refer only to an ambient temperature of 21°C.
[3] Surface painted.

Busch-dynasty®

Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flex, comfort sensor [1] [2] with multi-lens** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Push switch function possible at all times. For detection down to the floor. For detection in stairwells. With 4 detection levels. In combination with dimmer insert flex: dimming function of lighting and selectable light value storage. With enabling of pre-warning of switch-off for stairwell operation. Compatible with all free@home flex inserts. Adjusting elements on rear side. Multi-lens: suitable also for mounting heights of 2.20 m. Extension of the detection range by means of master/ slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. With continuous light/continuous Off function. With detection display in test mode. Surveillance density: 54 sectors with 224 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 31 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Detection range: frontal: 8 m, lateral: 7 m, Mounting height: 1.1 m Detection range 2: frontal: 8 m, lateral: 8 m, Mounting height: 2.2 m Detection angle: 180 ° Brightness limit value: 5 Lux - 500 Lux Up to daytime operation Mounting height: 0.8 m - 1.2 m alternative: 2.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 45 mm		
anthracite	**64764-81-500**	2CKA006800A2995	1
ivory white	**64764-82-500**	2CKA006800A2997	1
antique brass [3]	**64764-840-500**	2CKA006800A3008	1

[1] Please order the respective flush-mounted insert separately.
[2] The range specifications refer only to an ambient temperature of 21°C.
[3] Surface painted.

Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Key Switch Insert [1] [2] [3]** **breaking circuit, 1-pole** For profile semi-cylindrical lock. In switched-on and switched-off status the key can be pulled out in the central position, respectively. Delivered without cylindrical lock. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20IEC60669-1, British Standard EN 60669-1		
	2733 USL-101	2CKA001101A0914	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		
delivery form:	Adapter plate APBS to be ordered separate.		

[1] For installation on British Standard wallboxes please use adapter plate APBS (6599-0-2813). (Depth of box 60 mm.)
[2] Use the cylindrical lock according to the enclosed drawing.
[3] See profile semi-cylindrical lock.

	**Blind switch insert [1] [2]** **SP, switch** With interlock. Rated voltage: 250 V~ Rated current: 10 AX Protection class (Device): IP 20IEC60669-1, British Standard EN 60669-1		
	2000/4 US-500	2CKA001012A2197	10/100
	2020/4 US-500	2CKA001413A1103	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] These blind switches/push buttons safely prevent a switch-over of the running direction being carried out too quickly.

	**Blind switch insert [1] [2]** With rotary knob/switch and push switch. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1, British Standard EN 60669-1		
	DP [3]		
	2712 U	2CKA001101A0534	10
	SP, N, E		
	2713 U	2CKA001101A0542	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		
delivery form:	Adapter plate APBS to be ordered separate.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Blind switches/push switches prevents fast change over between operating directions.
[3] Also suitable for controlling direct voltage drives.

Busch-dynasty®

Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Blind switch insert [1] [2]** With rotary knob/push button. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC60669-1, British Standard EN 60669-1		
	DP [3]		
	2722 U	2CKA001101A0559	10
	SP, N, E		
	2723 U	2CKA001101A0567	10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Blind switches/push switches prevents fast change over between operating directions.
[3] Also suitable for controlling direct voltage drives.

	**Blind switch/push-switch [1] [2] [3] [4]** For profile semi-cylindrical lock/switch and push-switch. Delivered without cylindrical lock. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC60669-1, British Standard EN 60669-1		
	DP [5]		
	2712 USL-101	2CKA001101A0872	10
	SP, N, E		
	2713 USL-101	2CKA001101A0880	10

[1] For installation on British Standard wallboxes please use adapter plate APBS (6599-0-2813). (Depth of box 60 mm.)
[2] Blind switches/push switches prevents fast change over between operating directions.
[3] Use the cylindrical lock according to the enclosed drawing.
[4] See semi-cylindrical lock.
[5] Also suitable for controlling direct voltage drives.

	**Blind switch insert [1] [2] [3] [4]** For profile semi-cylindrical lock/push-button. Delivered without cylindrical lock. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 British Standard EN 60669-1, IEC60669-1		
	DP [5]		
	2722 USL-101	2CKA001101A0898	10
	SP, N, E		
	2723 USL-101	2CKA001101A0906	10

[1] For installation on British Standard wallboxes please use adapter plate APBS (6599-0-2813). (Depth of box 60 mm.)
[2] Blind switches/push switches prevents fast change over between operating directions.
[3] Use the cylindrical lock according to the enclosed drawing.
[4] See semi-cylindrical lock.
[5] Also suitable for controlling direct voltage drives.

Product	Article-No.	Order-No.	Pack/Qty
	**DIN profile-semi cylindrical lock** Acc. to German Standard DIN 18252. Total length 40 mm for blind switches and push switches For inserts 2712/2713/2722/2723/2733 USL-101 and 2712/2733 SLW-5x. Protection class (Device): IP 20		
	different lock mechanism, with 3 keys		
	0520 PZ-VS	2CKA000470A0013	1/100
	lock mechanism, with 3 keys		
	0521 PZ-GS	2CKA000470A0021	1/100
	**Blind compact timer** Suitable for blind and roller blind drives with mechanical or electronic limit switch shut-off. Without extension unit input. Running time: 3 min N-busbar connection is required. For manual and time-controlled switching of blinds and roller blinds. Memory function for the simple storage of switching times. The controlled devices can be manually operated at any time. Simple setting via display with with segment display and background illumination. Factory pre-set switching times, individual adaptations are possible. 2 switching times per day can be freely adjusted for each day of the week. Automatic switchover from summer time to winter time (switch-off function). Switching times and programs are safely stored in the event of a mains power failure. Power reserve for time and date > 10 years. Simple toggling between manual/automatic/vacation modes. See the associated cover plates 6435-xx. Programming possible only with control element attached and energized. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 2x Normally open contact Rated current: 3 A, cos ϕ 0.5 Rated power: 690 VA Temperature range (Device): 0 °C to 45 °C		
	6422 U-500	2CKA006410A0410	1/10

Busch-dynasty®

Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Basic blind insert** [1] [2] **2-wire blind insert** Suitable for blind and roller blind drives with mechanical or electronic limit switch shut-off. Suitable for operation without neutral conductor. Without an extension input. For control cover 6430-xx-xxx. For standard timer control element 6456-101. Running time: 3 min. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 2x Normally open contact Rated current: 3 A, cos ϕ 0.5 Rated power: 690 VA Temperature range (Device): 0 °C to 35 °C		
	6418 U-500	2CKA006410A0376	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] N-conductor connection required for operation with control cover 6430-7x, illuminated.
[2] N-conductor connection may be required for operation with blind and roller blind drives with electronic limit switch shut-off. If no N-conductor is available, capacitor set 6498 can be used.

	**Busch-Blind control II switch insert** [1] Suitable for blind, roller blind and awning drives with mechanical or electronic limit switch shut-off. With two 230 V multi-way input terminals (Up/Down) for group control. With operating mode switch for the following modes: normal, louvre, base station, position. With party function (disables the local control unit) in combination with Busch-Blind control II control cover 6430-xx-xxx, 6066-xx-xxx. Wind alarm, cleaning functions can be accommodated via extension input. For control cover 6430-xx-xxx. For IR control element 6066-xx-xxx. For comfort timer control element 6455-101-500. Running time: 3 min Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 2x Normally open contact Rated current: 3 A, cos ϕ 0.5 Rated power: 690 VA Control/Signal outputs: 2 Temperature range (Device): 0 °C to 35 °C		
	6411 U-500-101	2CKA006410A0378	1/10

[1] Compatible with types 6411 U/x.

	**Brightness sensor** For insert 6411U/S-101. With 2 m connecting cable. Measuring range: 15-50,000 lux.		
	6414-101	2CKA006410A0389	1/10

	**Sun sensor** For insert 6411U/S-101. Measuring range: 5-50,000 lux.		
	6482	2CKA006410A0203	1

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Short-time timer insert** [1] **countdown timer** For time-programmed switching of electrical consumers. With control cover, without cover plate. Minimum timer time: 1 second. Maximum timer time: 9:59:59 hours. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 1x Normally open contact Rated current: 10 A, cos ϕ 1 Rated power: 2300 VA Temperature range (Device): 0 °C to 35 °CIEC 60669-2-1, British Standard EN 60669-2-1		
	6465 U-101-500	2CKA006410A0393	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
Cover frames:	1gang frame 1721 BS-2xG or Dual Box frame 1722 BSDB-2xG.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Rocker** **with marking** As cover for flush-mounted blind control switch/push switch. For inserts 2000/4 and 2020/4 US.		
anthracite	**1785 JA-81**	2CKA001751A2934	10
ivory white	**1785 JA-82**	2CKA001751A2748	10
antique brass [1]	**1785 JA-840-500**	2CKA001751A3120	10

[1] Real metal surface refined by hand.

	**Cover plate** **with rotary control, with marking** As cover for flush-mounted blind control switch/push switch. For inserts 2712 U, 2713 U and 2722 U, 2723 U.		
anthracite	**1740-81**	2CKA001710A3623	10
ivory white	**1740-82**	2CKA001710A3154	10
antique brass [1]	**1740-840-500**	2CKA001710A4089	1/10

[1] Real metal surface refined by hand.

	**Control element** For Busch-Blind control II insert 6411 U-101, 6411 U/S-101. For basic blind insert 6418 U. For Busch-Universal 2gang 1way insert 6402 U.		
anthracite	**6430-81-102**	2CKA006430A0326	1/10
ivory white	**6430-82-102**	2CKA006430A0327	1/10
antique brass [1]	**6436-840-500**	2CKA006430A0406	1/10

[1] Real metal surface refined by hand.

Busch-dynasty®

Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Standard timer control element [1])** For manual and time-controlled switching of blinds and roller blinds. With dusk to dawn program including (Astro-program) Individual Astro adjustment and Astro blocking time. The controlled devices can be manually operated at any time. Simple setting via high-resolution display with background illumination. With preset switching times/date/time. Factory-set switching times can be individually adjusted. Automatic switchover from summer time to winter time (switch-off function). Switching times/programme are safely stored in the event of a mains power failure. Power reserve for time and date > 10 years. Simple toggling between manual/automatic/vacation modes. Programming possible only with control element attached and energized. 2 switching times per day can be user-defined for each day of the week. Astro switching times and switching times can be combined. For basic blind insert 6418 U. Temperature range (Device): 0 °C to 35 °C		
	6456-101	2CKA006410A0398	1/10

[1]) See respective cover plates 6435-xx.

Product	Article-No.	Order-No.	Pack/Qty
	**Comfort timer control element [1])** For manual and time-controlled switching of blinds, roller blinds, awnings, lighting and other electrical devices. With dusk to dawn program including (Astro-program) Individual Astro adjustment and Astro blocking time. The controlled devices can be manually operated at any time. Simple setting via high-resolution display with background illumination. With preset switching times/date/time. Factory-set switching times can be individually adjusted. Automatic switchover from summer time to winter time (switch-off function). Switching times/programme are safely stored in the event of a mains power failure. Power reserve for time and date > 10 years. Simple toggling between manual/automatic/vacation modes. Combined with Busch-Blind control II insert 6411 U/S-101, sun protection and twilight function. Freely adjustable temperature and brightness-dependent sun protection function. Freely adjustable twilight function. User-adjustable running times for blinds and air conditioning. Programming possible only with control element attached and energized. 6 switching times per day can be user-defined for each day of the week. Astro switching times and switching times can be combined. When combined with LED dimmer 6524 U, Busch-Universal master dimmer insert 6593 U or Busch-Memory touch-type controller 6550 U-101, the brightness of the lighting can be adjusted for each ON switching time. For Busch-Blind control II insert 6411 U-101, 6411 U/S-101. For Busch-Universal relay switch insert 6401 U-102. For Busch-Universal master dimmer insert 6593 U. For LED dimmer insert 6524 U and 6526 U.. For Busch-Memory touch-type controller 6550 U-101. Temperature range (Device): 0 °C to 35 °C		
	6455-101-500	2CKA006410A0399	1/10

[1]) See respective cover plates 6435-xx.

	**Cover plate** For comfort timer control element 6455-101-500. For standard timer control element 6456-101. For room thermostats 1098 U-101 and 1098 UF-101. For short-time timer 6465 U-101.		
anthracite	**6435-81**	2CKA006430A0303	10
ivory white	**6435-82**	2CKA006430A0304	10
antique brass [1])	**6435-840-500**	2CKA006430A0405	10

[1]) Plastic surface refined by hand.

Busch-dynasty®

Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1]** **shuttered** With screwless terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A		
anthracite	**20 EUCKS-81**	2CKA002013A5265	10
ivory white	**20 EUCKS-82**	2CKA002013A5244	10/100
antique brass anthracite [2])	**20 EUCKS-845-500**	2CKA002013A5401	10
antique brass ivory white [2])	**20 EUCKS-848-500**	2CKA002013A5398	10/100

[1] Increased shock protection .
[2] Real metal surface refined by hand.

	**SCHUKO® socket outlet [1]** **shuttered** With screw-type terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A		
antique brass anthracite [2])	**23 EUCKS-845-507**	2CKA002011A6247	10
antique brass ivory white [2])	**23 EUCKS-848-507**	2CKA002011A6245	10
anthracite [3])	**2300 EUCB-81**	2CKA002013A5448	10
ivory white [3])	**2300 EUCB-82**	2CKA002013A5449	10/100

[1] Increased shock protection .
[2] Real metal surface refined by hand.
[3] With screw-type terminals

	**SCHUKO® socket outlet steplight® [1]** **With night orientation light** with separate connection cables for switch contact. with LED, Shuttered. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A		
ivory white	**20 EUCBLI-82**	2CKA002013A5292	1
antique brass [2])	**20 EUCBLI-840-500**	2CKA002013A5399	1

[1] Connecting terminals approved in accordance with VDE 0620-1 as connectors.
[2] Plastic surface refined by hand.

	**13 A Switched socket outlet** 1gang With screw-type terminals. SP switched Without claws. Only for mounting in VDE flush-mounted wallboxes CFB 122 and CFBM 122. Rated voltage: 250 V~ Rated current: 13 ABS 1363: part2		
anthracite	**2190 EUC-81**	2CKA002190A0216	10/100
ivory	**2190 EUC-82**	2CKA002190A0213	10/100
antique brass [1])	**2190 EUC-840-500**	2CKA002190A0222	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet** **with hinged lid** With screwless terminals. DP (2 P + E) Hinged lid notches when opened. Rated voltage: 250 V~ Rated current: 16 A		
ivory white	**20 EUK-82**	2CKA002018A1465	10
antique brass [1])	**20 EUK-840-500**	2CKA002018A1515	10

[1] Real metal surface refined by hand.

	**SCHUKO® socket outlet [1] [2]** **shuttered** With screw-type terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A		
anthracite	**23 EUCB-81**	2CKA002013A5474	10
ivory white	**23 EUCB-82**	2CKA002013A5475	10
antique brass anthracite [3])	**23 EUCB-845-500**	2CKA002013A5481	10
antique brass ivory white [3])	**23 EUCB-848-500**	2CKA002013A5482	10

[1] Increased shock protection .
[2] With screw-type terminal for rigid and flexible wires
[3] Real metal surface refined by hand.

	**SCHUKO® USB socket outlet, 2gang [1] [2] [3] [4]** **shuttered** For connecting electric loads. DP (2 P + E) With screwless terminals. For supply and support of mobile devices via USB-cable. With two USB type A outputs. Simultaneous charging via USB connection and use of the SCHUKO® socket outlet. Support of loading protocol on the USB-A connection: Apple MFI with 2.4 A and BC 1.2 with 1.5 A. With electronic short-circuit protection. With electronic overload protection. Rated voltage: 230 V~, +10 % / --10 % Secondary: 5 V-, +5 % / -5 % Rated frequency: 50 Hz - 60 Hz Outputs: 2x USB charging interface Suitable for: SCHUKO® socket outlet Rated current: 16 A Suitable for: In case one output is used: Rated current: 2.4 A. Output voltage: 5 V- Suitable for: In case two output are used: Rated current: 1.2 A. Output voltage: 5 V- Rated power: 12 W Protection class (Device): IP 20, SELV Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 58 mm Mounting depth: 39.5 mm		
anthracite	**20 EUCB2USB-81-500**	2CKA002011A6268	1/10
ivory white	**20 EUCB2USB-82-500**	2CKA002011A6270	1/10
antique brass anthracite [5])	**20 EUCB2USB-845-500**	2CKA002011A6281	1/10
antique brass ivory white [5])	**20 EUCB2USB-848-500**	2CKA002011A6282	1/10

[1] Increased shock protection .
[2] Connecting terminals approved in accordance with VDE 0620-1 as connectors.
[3] No data transfer.
[4] When cleaning the device, use dust cover 2098 for the USB-A connection.
[5] Surface painted.

Busch-dynasty®

Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Blind insert, 1 gang, 2 way flex** 3 wire connection (neutral conductor required). For the control of roller shutters, blind and awning motors with mechanical or electronic limit switch shut-off. Group formation via extension input possible. Operation also via conventional push buttons (2020 US non-illuminated/2021/6 UK) possible. Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL.		
	64831 U-500	2CKA006400A0096	1
	**Extension insert flex** 3 wire connection (neutral conductor required). For the extension of the Busch-Comfort switch or presence detector installations. For group control of flex inserts via extension unit communication. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with all flex inserts.		
	64891 U-500	2CKA006800A3051	1
	**Control element, 1 gang flex** Tapping control element, 1gang. Compatible with all free@home flex inserts. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64711-500	2CKA006400A0099	1
	**Control element, 1 gang, flex wireless** Tapping control element, 1gang. For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62711-WL-500	2CKA006200A0281	1
	**Control element, 2 gang flex** Tapping control element, 2gang For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64721-500	2CKA006400A0101	1

Product	Article-No.	Order-No.	Pack/Qty
	**Control element, 1 gang, flex wireless** Tapping control element, 2gang For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62721-WL-500	2CKA006200A0283	1
	**Weather Station** For recording and transmitting of brightness, temperature, wind speed and rain. Weather data can be linked with actuators to automatically control functions. Weather data can be visualized in the free@home web interface and the free@home app. Remote operation via the Bluetooth and smartphone/tablet app.		
	WS-1-WL.1	2CKA006200A0297	1
	**Standard Inputs** WS-1/A1.1 Mast adapter weather station		
	WS-1/A1.1	2CKA006200A0848	1
	**Rocker** **1gang, with “Blind” icon** As cover for ABB-free@home® sensor units and sensor/actuator units		
antracite	SRB-1-81	2CKA006220A0143	1
ivory white	SRB-1-82	2CKA006220A0518	1
	**Rocker** **2gang left/right, “Blind” icon** As cover for ABB-free@home® sensor units and sensor/actuator units		
anthracite	SRB-2-81	2CKA006220A0158	1
ivory white	SRB-2-82	2CKA006220A0523	1
	**Rocker** **2gang right, with “Scene” icon** As cover for ABB-free@home® sensor units and sensor/actuator units		
anthracite	SRS-2-R-81	2CKA006220A0173	1
ivory white	SRS-2-R-82	2CKA006220A0528	1

Busch-dynasty®

Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**USB socket outlet earthing pin, 2gang [1] [2] [3]** **shuttered** For connecting electric loads. DP (2 P + E) With screwless terminals. For supply and support of mobile devices via USB-cable. With two USB type A outputs. Simultaneous charging via USB connection and use of the SCHUKO® socket outlet. Support of loading protocol on the USB-A connection: Apple MFI with 2.4 A and BC 1.2 with 1.5 A. With electronic short-circuit protection. With electronic overload protection. Suitable for the countries: Belgium, Poland, Czech Republic. Rated voltage: 230 V~, +10 % / --10 % Secondary: 5 V-, +5 % / -5 % Rated frequency: 50 Hz - 60 Hz Outputs: 2x USB charging interface Suitable for: Earth pin socket Rated current: 16 A Suitable for: In case one output is used: Rated current: 2.4 A Suitable for: In case two output are used: Rated current: 1.2 A Output voltage: 5 V- Rated power: 12 W Protection class (Device): IP 20, SELV Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 58 mm Mounting depth: 39.5 mm		
anthracite	**20 MUCB2USB-81-500**	2CKA002011A6290	1
ivory white	**20 MUCB2USB-82-500**	2CKA002017A1889	1/10
antique brass anthracite [4]	**20 MUCB2USB-845-500**	2CKA002017A1895	1/10
antique brass ivory white [4]	**20 MUCB2USB-848-500**	2CKA002017A1896	1/10

[1] Socket outlet with integrated child protection. Replaces the usual term"...with child protection".
[2] No data transfer.
[3] When cleaning the device, use dust cover 2098 for the USB-A connection.
[4] Surface painted.

Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**WLAN access point, flush-mounted [1] [2]** **power supply from mains power** Operation as WLAN access point for the connection of WLAN terminal devices to the LAN. Operation as WLAN repeater for extending the transmission range of a WLAN. Operation as WLAN adapter for integrating Ethernet terminal devices into a WLAN. Supports WLAN standards IEEE 802.11b/g/n with 2.4 GHz; integrated WLAN antenna. Backward connection of an Ethernet cable via screw terminals (10/100 Mbit/s). Front-side Ethernet connection via a RJ45 socket (10/100 Mbit/s). The three connections (WLAN, Ethernet/screw terminals and Ethernet/RJ45)can be used in parallel via the integrated switch. Power supply via 2-pole connecting terminal. Nominal voltage: 100 - 240 V~ For mounting in commercially available deep flush-mounted and hollow-wall boxes. Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20 Dimensions: (L x W x D): 80 mm		
	8186/31-101-500	2CKA008100A0359	1

[1] Suitable for cover plate 1803-xxx.
[2] Not to be mounted in SM box 1701-xxx, 1702-xxx, 1703-xxx.

	**Reset magnet** For resetting WLAN access point UP 8186/31-101 and WLAN access point PoE UP 8186/41 to the factory settings. Protection class (Device): IP 20		
	8186/11-500	2CKA008100A0361	1

	**Universal data connection unit, cat. 3 [1]** **1gang** With down-leading outlet. For 8-pole plug, RJ 11/12, RJ 45, ISDN capability, Cat. 3. Design according to IEC 60 603-7-2:2007. Screw contacts With claw. Protection class (Device): IP 20		
	0213-500	2CKA000230A1549	10/100

[1] Suitable for cover plate 1803-xxx.

	**Universal data connection box with down-leading outlet [1]** **2gang internally parallel connected** With down-leading outlet. For 8-pole plug, RJ 11/12, RJ 45, ISDN capability, Cat. 3. Design according to IEC 60 603-7-2:2007. Screw contacts With claw. Protection class (Device): IP 20		
	0214	2CKA000230A0235	10/100
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		

[1] Suitable for cover plate 1803-02-xxx.

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Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**Universal data connection box with down-leading outlet [1])** **2 x outlets, 8/8-pole** With down-leading outlet. For 8-pole plug, RJ 11/12, RJ 45, ISDN capability, Cat. 3. Design according to IEC 60 603-7-2:2007. Screw contacts With claw. Protection class (Device): IP 20		
	0215	2CKA000230A0243	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		

[1]) Suitable for cover plate 1803-02-xxx.

	**Data-connection box, RJ 45, cat. 6a iso, shielded [1])** **1gang** With down-leading outlet and LSA self-cutting clamps. RJ-45 terminals for networks according to Cat 6A, Class EA (10 Gbits/s / 500MHz). Equates to cat. 6a, Class EA according to ISO/IEC 11801:2011-06. Terminal marking A and B according to TIA/EIA-568-B.2. Typ according to EN 60 603-7-51:2011-01. Shielding according to DIN EN 55022, Class B. Up to 500 MHz on all pairs of wires. Suitable for 10-Gigabit Ethernet. Suitable for PoE+ according to IEEE 802.3at, >- 1.000 contact durability. Flex cable entries from all sides without buckles. Earthing of housing via 6,3 mm blade terminal at the back possible. Re-embedded proofed. Suitable for Mix-and-Match operation. Suitable for RJ 11, RJ 12 und RJ 45. For data cables with a diameter of 6 -10 mm. For wires of AWG 24-22. For trunk systems, flush-mounted wall boxes and underfloor systems. Without claws. Mounting depth: 31 mm. Protection class (Device): IP 20		
	0218/11-101	2CKA000230A0409	1/10

[1]) Suitable for cover plate 1803-xxx.

Product	Article-No.	Order-No.	Pack/Qty
	**Data-connection box, RJ 45, cat. 6a iso, shielded [1])** **2 x outlets, 8/8-pole** With down-leading outlet and LSA self-cutting clamps. RJ-45 terminals for networks according to Cat 6A, Class EA (10 Gbits/s / 500MHz). Equates to cat. 6a, Class EA according to ISO/IEC 11801:2011-06. Terminal marking A and B according to TIA/EIA-568-B.2. Typ according to EN 60 603-7-51:2011-01. Shielding according to DIN EN 55022, Class B. Up to 500 MHz on all pairs of wires. Suitable for 10-Gigabit Ethernet. Suitable for PoE+ according to IEEE 802.3at, >- 1.000 contact durability. Flex cable entries from all sides without buckles. Earthing of housing via 6,3 mm blade terminal at the back possible. Re-embedded proofed. Suitable for Mix-and-Match operation. Suitable for RJ 11, RJ 12 und RJ 45. For data cables with a diameter of 6 -10 mm. For trunk systems, flush-mounted wall boxes and underfloor systems. For wires of AWG 24-22. Without claws. Mounting depth: 31 mm. Protection class (Device): IP 20		
	0218/12-101	2CKA000230A0411	1/10

[1]) Suitable for cover plate 1803-02-xxx.

	**Universal data connection box 8(6)/ telephone unit 6F+N - connection box [1])** **2 x 6-pole** with straight outlet, with screw contacts, Universal data-connection boxes: RJ 11/12, ISDN capable Cat. 3 in acc. with IEC 603-7/German Standard DIN EN 60603-7, Telecommunication outlet (telephone unit): for 1 telephone, 1 auxiliary device or 1 data transmission unit, With claw. Protection class (Device): IP 20		
white	**UAE 8(6)TAE 6 F+N**	2CKA000230A0381	10/100

[1]) Suitable for cover plate 2539-xxx, 1766-xxx and 1746-2xx-FN.

	**Satellite co-axial outlets** **2 connectors/dead-end feeder** Broadband technology 5-2.400 MHz For DVB-T, satellite and broad-band cable systems. For analogue and digital transmission. With claw. Minimal installation depth, class A. Protection class (Device): IP 20		
	0230-101	2CKA000230A0250	10/100

	**Antenna socket insert Radio/TV** **2 connectors/loop through type** Broadband technology 5-2.400 MHz For DVB-T, satellite and broad-band cable systems. For analogue and digital transmission. With claw. Minimal installation depth, class A. Protection class (Device): IP 20		
	0231-101	2CKA000230A0268	10/100

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Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**Satellite co-axial outlets Radio/TV/SAT 3gang dead-end feeder** Broadband technology 47-2.150 MHz. SAT connection designed as screwable F-male plug. with remote feed via F-bush For DVB-T and broadband-cable-systems. For analogue and digital transmission. With claw. Minimal installation depth, class A. Protection class (Device): IP 20		
	0232-101-500	2CKA000230A0463	10/100
	**Terminating resistor 75 Ohm** Protection class (Device): IP 20		
	0239	2CKA000230A0201	10/100
	**Mounting plate [1] [2] with green insert** For 2 modular jack inserts. For systems: CommScope (AVAYA / AT&T / Lucent Technologies), GigaSPEED, PowerSUM, 360 GS 10E bis MGS 600-BK, M1 BH-xx, MPS 100E-xx. With R&M adapter R310694 suitable for R&M connection modules R305111, R305112, R305113 and R305114. Pitch dimensions: (WxH) approx. 16.9 x 17.9 mm. Without claws. Protection class (Device): IP 20		
	1810-500	2CKA001753A9974	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

	**Mounting plate [1] [2] with red insert** For 2 modular jack inserts. Suitable for Art. Nos. 0210, 0211 and 0219-101. For systems: AMP / tyco Electronics, BTR, EFB, Krone, Panduit, Quante, Radiall, Setec, Dr.-Ing. Sieger, Telena, Thomas & Betts For Telegärtner AMJ/UMJ connection modules/ couplings. For 2 fiber optic modules of the following types: 3M-Volition, Krone, mvk. Pitch dimensions: (WxH) approx. 14.8 x 19.4 mm. Without claws. Protection class (Device): IP 20		
	1812-500	2CKA001753A9972	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

Product	Article-No.	Order-No.	Pack/Qty
	**Mounting plate [1] [2] with black insert** For MTRJ or 2 modular jack inserts. For systems: Ackermann, AMP / tyco Electronics (Slim Line (SL) -SM 2gang/switches: 110Connect Jacks, Toolless Jacks / Standard 110Connect Jacks), Brand-Rex, CombiNet, EFB Electronic, Telena. For 2 fiber optic modules of the following types: AMP / tyco Electronics MTRJ. Pitch dimensions: (WxH) approx. 14.8 x 20.4 mm. Without claws. Protection class (Device): IP 20		
	1814-500	2CKA001753A9973	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

	**Mounting plate [1] [2] with blue insert** For 2 modular jack inserts. For system: ITT Cannon RJ45 Cat. 5 type 808 RJ45 Mark III. Pitch dimensions: (WxH) approx. 16.0 x 11.0 mm. Without claws. Protection class (Device): IP 20		
	1816	2CKA001710A3100	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

	**Mounting plate [1] [2] with orange base** For 2 modular jack inserts. For system: LexCom 150 and LexCom 250. Pitch dimensions: (WxH) approx. 15.4 x 15.4 mm. Without claws. Protection class (Device): IP 20		
	1819	2CKA001753A8056	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

	**Mounting plate [1] [2] with grey base** For 2 modular jack inserts. For system: Panduit MiniCom (Cu. z.B. TX6 10 Gig Shielded Jack modules and fiber optic modules. Pitch dimensions: (WxH) approx. 15.9 x 18.7 mm. Without claws. Protection class (Device): IP 20		
	1820	2CKA001753A8057	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

	**Flush-mounted assembly adapter** For the accommodation of one or two universal modules 0219. For flush-mounted installation. Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. Protection class (Device): IP 20		
	0219/12	2CKA000230A0395	1/10

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Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**Channel assembly adapter** For the accommodation of one or two universal modules 0219. For channel and under-floor installation. Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. Protection class (Device): IP 20		
	0219/13	2CKA000230A0396	1/10
	**Universal module, RJ 45, cat. 6a iso, shielded [1]) 1gang** For installation in installation adapter 0219/12 or 0219/13. Also suited for mounting into cover plate 2561-xxx, 2564-02-xxx and bases 1812, 1866 EB, and 1867 EB. RJ-45 terminals for networks according to Cat 6A, Class EA (10 Gbits/s / 500MHz). Equates to cat. 6a, Class EA according to ISO/IEC 11801:2011-06. Cat. 6A according to ISO/IEC 11801: 2011-06. Terminal marking A and B according to TIA/EIA-568-B.2. Typ according to EN 60 603-7-51:2011-01. Shielding according to DIN EN 55022, Class B. Suitable for PoE+ according to IEEE 802.3at, >- 1.000 contact durability. Bend-radius optimised cable feed (30°). Earthing of housing via 6,3 mm blade terminal at the back possible. Re-embedded proofed. Suitable for Mix-and-Match operation. For 8-pole plug RJ 45 only. Housing made from diecast zinc. With integrated dust-protection cap (can be removed if necessary). With insulation displacement connection For data cables with a diameter of 6 -10 mm. For wires of AWG 24-22. For trunk systems, flush-mounted wall boxes and underfloor systems. Protection class (Device): IP 20		
	0219-101	2CKA000230A0413	1/10

[1]) With assembly adapters appropriate for telephone unit cover plates 2539-21x and 1766-xxx.

	**Modular-Jack insert** **6-pole Cat. 3 (AMP-No. 216000-2)** For cover plate 2561-xxx, 2561-02-xxx and insert 1812, 1866 built-in, 1867 built-in. For conductor cross-sections of 0.12 mm² (AWG 26) to 0.35 mm² (AWG 22). Protection class (Device): IP 20		
	0210	2CKA000225A0078	10
	**Modular-Jack insert** **8-pole Cat. 3 (AMP-No. 216005-4)** For cover plate 2561-xxx, 2561-02-xxx and insert 1812, 1866 built-in, 1867 built-in. For conductor cross-sections of 0.12 mm² (AWG 26) to 0.35 mm² (AWG 22). Protection class (Device): IP 20		
	0211	2CKA000225A0086	10

Product	Article-No.	Order-No.	Pack/Qty
	**Built-in jack** For potential balancing jack cover plate and installation in cover plates. For devices of 19 mm diameter. Protection class (Device): IP 20		
	0471-0-0037	2CKA000471A0037	10
	**Potential balancing plug** Suitable for plug 2095 UC-212 and built-in jack 0471-0-0037 acc. to German Standard DIN 42801. For potential balancing jack cover plate (connection up to 6 mm² crimped or soldered) Protection class (Device): IP 20		
	0299-0-0032	2CKA000299A0032	10
	**Blank plate** **with metal mounting plate**		
anthracite	**1742-81**	2CKA001710A3612	10
ivory white	**1742-82**	2CKA001710A3143	10
antique brass [1])	**1742-840-500**	2CKA001710A4080	10

[1]) Real metal surface refined by hand.

	**Cover plate [1])** As cover for flex outlet, for cords up to 10.3 mm diameter. With strain relief (without terminal block).		
anthracite	**1749-81**	2CKA001710A3614	10
ivory white	**1749-82**	2CKA001710A3145	10
antique brass [2])	**1749-840-500**	2CKA001710A4081	10

[1]) Cover plate can also be used individually as cover for telephone connector boxes (VDo).
[2]) Real metal surface refined by hand.

	**Cover plate [1])** As cover for universal data connection boxes. Art.-No. 0213 (Cat 3/ISDN), 0216-101, 0218/11-101 (Cat 5e/6 data technology) and comparable types of the company Rutenbeck. For WLAN access points 8186/31 and 8186/41. Brand-Rex (WAEGV 8 EKR/EK). BTR (universal data connecting unit design and IAE design). Telegärtner (AMJ 45, UMJ 45). With down-leading outlet. With labelling field. Size of labelling field: 60 x 9 mm.		
anthracite	**1803-81**	2CKA001710A3616	10
ivory white	**1803-82**	2CKA001710A3147	10
antique brass [2])	**1803-840-500**	2CKA001710A4082	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Real metal surface refined by hand.

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Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1]** **2gang** As cover for universal data connection boxes. Art. No. 0214, 0215 (Cat 3), 0220/12-507, 0221/12-507, 0218, 0217 (Cat 5e/6 data technology) and comparable types of the company Rutenbeck. Brand-Rex (WAEGV 8/8 EKR/EK). AMP (NETCONNECT 5E). BTR (E-DAT C6, E-DAT design, Universal data connecting unit design and IAE design). cti (cti-wire 2.8 Cat.6). Telegärtner (AMJ 45, UMJ 45). With down-leading outlet. With labelling field. Size of labelling field: 60 x 9 mm.		
anthracite	**1803-02-81**	2CKA001710A3615	10
ivory white	**1803-02-82**	2CKA001710A3146	10
antique brass [2]	**1803-02-840-500**	2CKA001710A4083	1/10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Real metal surface refined by hand.

	**Cover plate** For telephone connection unit. For USB, VGA, HDMI inserts and communication adapter. For loudspeaker connection box. USB power adapter insert 6472 U-500-101. USB power adapter insert 6475 U-101-500. Suitable for part number 0248/0x-101. For data modules. Suitable for Art. No. 0219/12 and 0219/13. For modular outlets with 90° RJ45 outlet from Telegärtner (type MJ and WE).		
anthracite	**1766-81**	2CKA001710A3613	10
ivory white	**1766-82**	2CKA001710A3144	10/100
antique brass [1]	**1766-840-500**	2CKA001710A4084	10

[1] Real metal surface refined by hand.

	**Cover plate [1] [2]** **as cover for standard Radio/TV/SAT socket outlets** With 2 connectors Acc. to German Standard DIN 45330. Radio/TV/SAT. With M3 fixing screw.		
anthracite	**1743-81**	2CKA001724A4252	10
ivory white	**1743-82**	2CKA001724A2758	10
antique brass [3]	**1743-840-500**	2CKA001724A4362	10

[1] Third opening can be knocked out.
[2] See inserts for satellite coaxial socket outlets.
[3] Real metal surface refined by hand.

	**Cover plate [1]** **with labelling field** For modular jack with slide entrance. To fit only Art. No. 1810, 1812, 1814, 1816, 1818, 1819 and 1820. Size of labelling field: 60 x 9 mm.		
anthracite	**1800-81**	2CKA001710A3627	10
ivory white	**1800-82**	2CKA001710A3158	10
antique brass [2]	**1800-840-500**	2CKA001710A4085	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Real metal surface refined by hand.

Product	Article-No.	Order-No.	Pack/Qty
	**Intermediate ring** For fitting cover plates from the Busch-Duro 2000® SI and Reflex SI range.		
ivory white	**1747 SI-82**	2CKA001710A3862	10
antique brass [1]	**1747 SI-840-500**	2CKA001710A4079	10

[1] Plastic surface refined by hand.

	**Intermediate ring with hinged lid [1]** **Busch-balance® SI** For attaching cover plates from the Busch-balance® SI range. Delivery without cover plate. With sealing ring. With hinged lid. Protection class (Device): IP 44 Dimensions: (L x W x D): 63 mm x 63 mm x 20 mm		
anthracite	**2518-WD-81**	2CKA001719A0217	10
ivory white	**2518-WD-82**	2CKA001719A0218	10

[1] Combinable only with covers for flush-mounted inserts

	**Cover plate** **with hinged lid** For telecommunication inserts with cover plate 50 x 50 mm. With cover plate 50 x 50 mm, AMP, Brand-Rex, Rutenbeck, BTR, Telegärtner, etc.		
anthracite	**1746-81**	2CKA001710A3618	10
ivory white	**1746-82**	2CKA001710A3149	10
antique brass [1]	**1746-840-500**	2CKA001710A4086	10

[1] Plastic surface refined by hand.

Busch-dynasty®

Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Radio DAB+ [1])** DAB+ and RDS stereo radio alarm clock for flush-mounted installation. With high-resolution colour display for showing additional information. Reception frequency: 87.50 MHz - 108.00 MHz. Receive frequency (DAB+): 174 MHz – 240 MHz. With external AUX input/output, reversible. For mono/stereo operation. 8 radio stations storable. With time and date display. With individual alarm and snooze function. With automatic switch-off function (automatic sleep mode). With extension input to remote-controlled ON/OFF switches. With integrated antenna. With additional connection for external antenna. Permitted speaker impedance: 4 - 8 Ohm Can be installed as 1gang and in multiple combinations. Control element: 4-button operation via floating rocker Display elements: ICU graphic display with 280 DPI. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Control/Signal outputs: 2, Loudspeaker output, impedance 4 Ohm Rated power: 2 W (RMS) Protection class (Device): IP 20 Temperature range (Device): 5 °C to 40 °C Dimensions: (L x W x D): 71 mm x 71 mm x 47 mm Mounting depth: 32 mm		
	8215 U-101-500	2CKA008200A0276	1/10

[1]) No claw. Screw-fixing via keyholes.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Radio BTconnect DAB+ [1])** **With Bluetooth interface for music replay.** DAB+ and RDS stereo radio alarm clock for flush-mounted installation. With high-resolution colour display for showing additional information. With Bluetooth interface for music replay of mobile devices. Connection of external Bluetooth loudspeakers possible. Reception frequency: 87.50 MHz - 108.00 MHz. Receive frequency (DAB+): 174 MHz – 240 MHz. With external AUX input/output, reversible. For mono/stereo operation. 8 radio stations storable. With time and date display. With individual alarm and snooze function. With automatic switch-off function (automatic sleep mode). With extension input to remote-controlled ON/OFF switches. With integrated antenna. With additional connection for external antenna. Permitted speaker impedance: 4 - 8 Ohm Can be installed as 1gang and in multiple combinations. Bluetooth specification: 4.2. Bluetooth profiles supported: A2DP Number of stored Bluetooth connections: max. 8 Control element: 4-button operation via floating rocker Display elements: ICU graphic display with 280 DPI. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Rated power: 2 W (RMS) Protection class (Device): IP 20 Temperature range (Device): 5 °C to 40 °C Dimensions: (L x W x D): 71 mm x 71 mm x 47 mm Mounting depth: 32 mm Bluetooth		
	8217 U-101-500	2CKA008200A0279	1/10

[1]) No claw. Screw-fixing via keyholes.

Busch-dynasty®

Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty



Busch-Radio iNet [1] [2] [3] [4]
WLAN Internet radio alarm clock for flush-mounted installation.
For the reception of national and international radio stations via Internet.
Radio station search possible via various genres.
With high resolution graphic display and background illumination.
With external AUX input.
Integrated web-server for configuration and control.
Remote operation with smartphone via browser surface.
UPnP replay function. It is controlled via smartphone.
For mono/stereo operation.
8 radio stations storable.
With time and date display.
With alarm function.
With short-time timer.
With automatic switch-off function (automatic sleep mode).
With extension input to remote-controlled ON/OFF switches.
With integrated WLAN antenna.
WLAN Standards: IEEE 802.11b / IEEE 802.11g and IEEE 802.11n (2,4 GHz).
WLAN safety: WPA / WPA2.
Permitted speaker impedance: 4 - 8 Ohm
Can be installed as 1gang and in multiple combinations.
Rated voltage: 110 - 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Protection class (Device): IP 20
Temperature range (Device): 5 °C to 40 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 49 mm
Mounting depth: 33 mm

APP

	8216 U-500	2CKA008200A0153	1/10

[1] No claw. Screw-fixing via keyholes.
[2] Matching loudspeaker insert 8223 U.
[3] Can also be combined with built-in loudspeaker (8222 EB) and moist atmosphere loudspeaker (8224 EB).
[4] To be mounted only in connection with commercially available flush-mounted installation boxes according to DIN 49073 > 40 mm depth gauge or Busch-Jaeger art. no. 3040, 3050 or 3060.



Loudspeaker insert [1]
5 cm (2")
With flat plug connector.
With broadband characteristics.
Rated output: 2 W (RMS)
Incl. speaker connection cable.
Frequency response: 200 - 20,000 Hz
Impedance: 4 Ohm
Protection class (Device): IP 20, SELV
Mounting depth: 32 mm

	8223 U-500	2CKA008200A0183	1/10

[1] No claw. Screw-fixing via keyholes.

Product	Article-No.	Order-No.	Pack/Qty



Busch-powerDock Insert [1] [2] [3] [4]
For charging and supplying mobile terminal devices.
With quick charging function for devices compatible with quick-chargeTM.
Makes possible fast charging of the mobile terminal device.
Rated voltage: 100 - 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Suitable for: Apple terminal device
Rated current: 2.1 A
Output voltage: 5 V-
Suitable for: Terminal device with USB-C connection
Rated current: 2.1 A
Output voltage: 5 V-
Suitable for: Terminal device with quick-charge support and USB-C connection and quick-charge TM function.
Rated current: 2 A
Output voltage: 9 V-
Protection class (Device): IP 20, SELV
Temperature range (Device): 5 °C to 35 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 32 mm
Mounting depth: 32 mm

	6473 U-500	2CKA006400A0039	1/10

[1] No claw. Screw-fixing via keyholes.
[2] The USB-C connection of the Busch-powerDock uses the quick charging function according to Qualcomm® Quick chargeTM 2.0 standard.
[3] In rare cases the manufacturers of USB-C terminal devices support the quick-charging function independent of this standard only in case of charging devices that are the same as those of other manufacturers.
[4] In these cases the quick-charging function of the terminal device is not enabled.



Busch-powerDock Charging cradle with Apple lightning connection [1]
For Busch-powerDock insert 6473 U.
For attaching mobile terminal devices with lightning connection.
For iPhone XS Max, iPhone XS, iPhone XR, iPhone X.
For iPhone 8 Plus, iPhone 8.
For iPhone 7 Plus, iPhone 7.
For iPhone SE.
For iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6.
For iPhone 5s, iPhone 5c, iPhone 5.
For iPod touch (6th generation), iPod touch (5th generation), iPod nano (7th generation).
Suitable for use with protective covers certified by Apple.
Temperature range (Device): 5 °C to 35 °C
Dimensions: (L x W x D): 54 mm x 54 mm x 36 mm

	6473-500	2CKA006400A0081	1/10

[1] Not released for use with the iPad.



Busch-powerDock Charging cradle with USB-C connection
For Busch-powerDock insert 6473 U.
For attaching mobile terminal devices with USB-C connection.
Temperature range (Device): 5 °C to 35 °C
Dimensions: (L x W x D): 54 mm x 54 mm x 36 mm

	6473/11-500	2CKA006400A0083	1/10

Busch-dynasty®

Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty
	**USB power adapter insert, flush-mounted [1] [2] [3]** **With USB-A & USB-C interface** For supply and support of mobile devices via USB-cable. With USB type A and USB type C female connector. To support two devices at the same time. Supports automatic negotiating of optimum charging parameters for the shortest charging times. Support of loading protocol on the USB-A connection: Apple MFI with 2.4 A and BC 1.2 with 1.5 A. Support of the additional quick-charge protocols: USB-PD and quick-charge 3.0 & 4.0. With electronic short-circuit protection. With electronic overload protection. Rated voltage: 230 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 2x USB charging interface Suitable for: Only USB-A bus occupied: Rated current: 3000 mA Output voltage: 5 V- Suitable for: Only USB-C bus occupied: Rated power: 18 W Suitable for: USB-A and USB-C bus occupied. Total: Rated current: 3250 mA Output voltage: 5 V- Protection class (Device): IP 20, SELV Temperature range (Device): 0 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 43 mm Mounting depth: 32 mm		
	6475 U-500	2CKA006400A0399	1

[1] No claw. Screw-fixing via keyholes.
[2] No data transfer.
[3] When cleaning the device, use dust cover 2098 for the USB-A connection.

Product	Article-No.	Order-No.	Pack/Qty
	**HDMI connection unit [1]** **with screw-type terminals and strain relief** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To link high-definition digital audio and video data from e.g. SAT-receiver, DVD-/Blue-Ray-player to plasma-type, LCD- or-LED-TVs/screens. HDMI-type A, 3D-compatible. Fully HD ready (1920 x 1080 pixel). For 20-wire HDMI-cables via srew-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. For easy mounting and adhering to the admissible bending radii, the Kaiser >Electronic socket<, article number 1068-02 or 9062-74, is recommended. Without cover plate. Without claws. Protection class (Device): IP 20 Mounting depth: 34 mm		
white	**0261/31-500**	2CKA000230A0430	1
grey	**0261/33-500**	2CKA000230A0432	1
alpine white	**0261/32-500**	2CKA000230A0431	1

[1] Please follow the recommendations of the cable and device producers for the max. HDMI cable lengths.

Product	Article-No.	Order-No.	Pack/Qty
	**VGA connection unit [1]** **with screw-type terminals and strain relief** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To link analogue video data between PCs and laptops to monitors or digital projectors etc. VGA-type: D-type, 15-pole. Fully HD ready (1920 x 1080 pixel). For 15-wire VGA-cables via srew-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. For easy mounting and adhering to the admissible bending radii, the Kaiser >Electronic socket<, article number 1068-02 or 9062-74, is recommended. Without cover plate. Without claws. Protection class (Device): IP 20 Mounting depth: 34 mm		
white	**0261/21-500**	2CKA000230A0424	1
grey	**0261/23-500**	2CKA000230A0426	1
alpine white	**0261/22-500**	2CKA000230A0425	1

[1] Please follow the recommendations of the cable and device producers for the max. VGA cable lengths.

Product	Article-No.	Order-No.	Pack/Qty
	**USB connection unit [1]** **with screw-type terminals and strain relief** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To link mobile devices like e.g. printer, scanner, USB-sticks or digital cameras etc. USB-type A, USB 2.0 compatible. For 5-wire USB- cables via srew-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. For easy mounting and adhering to the admissible bending radii, the Kaiser >Electronic socket<, article number 1068-02 or 9062-74, is recommended. Without cover plate. Without claws. Protection class (Device): IP 20 Mounting depth: 34 mm		
white	**0261/11-500**	2CKA000230A0418	1
grey	**0261/13-500**	2CKA000230A0420	1
alpine white	**0261/12-500**	2CKA000230A0419	1

[1] Please follow the recommendations of the cable and device producers for the max. USB cable lengths.

Product	Article-No.	Order-No.	Pack/Qty
	**Communication adapter** **for BNC-F Duct-jacks** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To support 1 or 2 jacks. For trunk systems, flush-mounted wall boxes and underfloor systems. Without cover plate. Without claws. Protection class (Device): IP 20		
white	**0262/11-500**	2CKA000230A0436	1
grey	**0262/13-500**	2CKA000230A0438	1
alpine white	**0262/12-500**	2CKA000230A0437	1

Busch-dynasty®

Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty
	**F duct-jack** **for communication adapter** For connection of antenna cables e.g.. for TVs with integrated TV-tuner and satellite receiver. With screw-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. Protection class (Device): IP 20		
metal clad	**0262-500**	2CKA000230A0440	1
	**Communication adapter** **for Cinch-jacks** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To support 1 or 2 jacks. For trunk systems, flush-mounted wall boxes and underfloor systems. Without cover plate. Without claws. Protection class (Device): IP 20		
white	**0263/11-500**	2CKA000230A0444	1
grey	**0263/13-500**	2CKA000230A0446	1
alpine white	**0263/12-500**	2CKA000230A0445	1
	**Cinch-jacks** **for communication adapter** To link analogue audio devices like audio-receiver, amplifier and HiFi-sets. Audio-band 20Hz - 20kHz. Marked white: audio , channel left. With soldering tag. Protection class (Device): IP 20		
alpine white	**0263/04-500**	2CKA000230A0451	1
	**Cinch-jacks** **for communication adapter** To link analogue audio devices like audio-receiver, amplifier and HiFi-sets. Audio-band 20Hz - 20kHz. Marked black: audio , channel left. With soldering tag. Protection class (Device): IP 20		
black	**0263/05-500**	2CKA000230A0452	1
	**Cinch-jacks** **for communication adapter** To link analogue audio devices like audio-receiver, amplifier and HiFi-sets. Audio-band 20Hz - 20kHz. Marked red: audio , channel left. With soldering tag. Protection class (Device): IP 20		
Red	**0263/06-500**	2CKA000230A0453	1
	**Cinch-jacks** **for communication adapter** For connecting analogue video devices, such as DVD players, hard disc recorders, video recorders or receivers. Marked yellow: audio , channel left. With soldering tag. Protection class (Device): IP 20		
yellow	**0263/07-500**	2CKA000230A0454	1

Product	Article-No.	Order-No.	Pack/Qty
	**Communication adapter** **for Mini-jacks 3,5mm.** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To support 1 or 2 jacks. For trunk systems, flush-mounted wall boxes and underfloor systems. Without cover plate. Without claws. Protection class (Device): IP 20		
white	**0264/11-500**	2CKA000230A0458	1
grey	**0264/13-500**	2CKA000230A0460	1
alpine white	**0264/12-500**	2CKA000230A0459	1
	**Mini-jack 3,5 mm** **for communication adapter** For the connection of mobile terminal devices such as MP3 player (stereo), mobile telephone and smartphones. Audio-band 20Hz - 20kHz. With soldering tag. Protection class (Device): IP 20		
chrome gloss	**0264-500**	2CKA000230A0462	1
	**Stereo loudspeaker connection box** [1] With screwless terminals (with screw-type terminals on the back). With 4 terminals. Cable cross-section max. 10 mm2. Polarity is indicated by color. With claw. Protection class (Device): IP 20		
white	**0248/02-101**	2CKA000230A0402	10/100

[1] Suitable for cover telephone unit 1766-xxx and 2539-21x.

	**Stereo loudspeaker connection box** [1] With screwless terminals (with screw-type terminals on the back). With 4 terminals. Cable cross-section max. 10 mm2. Polarity is indicated by color. With claw. Protection class (Device): IP 20		

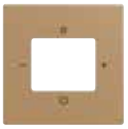
[1] Suitable for cover telephone unit 1766-xxx and 2539-21x.

	**Stereo loudspeaker connection box** [1] With screwless terminals (with screw-type terminals on the back). With 4 terminals. Cable cross-section max. 10 mm2. Polarity is indicated by color. With claw. Protection class (Device): IP 20		
anthracite	**0248/05-101**	2CKA000230A0404	10/100

[1] Suitable for cover telephone unit 1766-xxx and 2539-21x.

Busch-dynasty®

Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For Busch-Radio DAB+ 8215 U-101. For Busch-Radio BTconnect DAB+ 8217 U-101. For Busch-Radio iNet 8216 U.		
anthracite	**8252-81-101-500**	2CKA008200A0249	10
ivory white	**8252-82-101-500**	2CKA008200A0251	10
antique brass [1])	**8252-840-101-500**	2CKA008200A0262	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For loudspeaker insert 8223 U.		
anthracite	**8253-81**	2CKA008200A0078	1/10
ivory white	**8253-82**	2CKA008200A0079	1/10
antique brass [1])	**8253-840-500**	2CKA008200A0191	1/10

[1]) Plastic surface refined by hand.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For telephone connection unit. For USB, VGA, HDMI inserts and communication adapter. For loudspeaker connection box. USB power adapter insert 6472 U-500-101. USB power adapter insert 6475 U-101-500. Suitable for part number 0248/0x-101. For data modules. Suitable for Art. No. 0219/12 and 0219/13. For modular outlets with 90° RJ45 outlet from Telegärtner (type MJ and WE).		
anthracite	**1766-81**	2CKA001710A3613	10
ivory white	**1766-82**	2CKA001710A3144	10/100
antique brass [1])	**1766-840-500**	2CKA001710A4084	10

[1]) Real metal surface refined by hand.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate for Busch-powerDock** For Busch-powerDock charging cradle.		
anthracite	**6477-81**	2CKA006400A0056	10
ivory white	**6477-82**	2CKA006400A0057	10
antique brass [1])	**6477-840-500**	2CKA006400A0061	10

[1]) Surface painted.

Room thermostats

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted [1]) [2]) [3])** Switch contact opens when the set temperature is reached. With fixing claws. Separate terminal to activate nighttime mode and reduction of room temperature by 4K. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Rated current: 10 A Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1094 U-500	2CKA001032A0512	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2]) Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3]) Switching temperature difference: ± 0.5 K.

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted [1]) [2]) [3])** **Slide switch** With built-in slide switch and control lamp for nightly reduction of 4 K. Switch contact opens when the set temperature is reached. With fixing claws. Separate terminal to activate nighttime mode and reduction of room temperature by 4K. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Rated current: 10 A Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1095 U-500	2CKA001032A0514	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2]) Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3]) Switching temperature difference: ± 0.5 K.

Busch-dynasty®

Room thermostats

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted [1] [2] [3]** **Sliding switch, 24 V** With built-in slide switch and control lamp for nightly reduction of 4 K. Switch contact opens when the set temperature is reached. With fixing claws. Separate terminal to activate nighttime mode and reduction of room temperature by 4K. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 24 V~ Rated current: 1 A Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1096 U	2CKA001032A0485	1
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat, e.g., Art. No. 6164/10 .
[3] Switching temperature difference: ± 0.5 K.

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted [1] [2] [3]** **1gang 2way** With fixing claws. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Rated current: 5 A Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1097 U-500	2CKA001032A0513	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo valves of "closed or open when de-energized“ design are required for the controller. E.g. article no. 6164/10-101.
[3] Switching temperature difference: ± 0.5 K.

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted [1] [2] [3]** **Actual value indication** With actual value temperature display Automatic controller calibration Switch contact opens when the set temperature is reached. With fixing claws. Separate terminal to activate nighttime mode and reduction of room temperature by 4K. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Rated current: 10 A Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1094 UTA	2CKA001032A0487	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3] Switching temperature difference: ± 0.5 K.

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted [1] [2] [3]** **Sliding switch, actual value indication** With actual value temperature display Automatic controller calibration Switch contact opens when the set temperature is reached. With built-in slide switch and control lamp for nightly reduction of 4 K. With fixing claws. Separate terminal to activate nighttime mode and reduction of room temperature by 4K. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Rated current: 10 A Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1095 UTA	2CKA001032A0488	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3] Switching temperature difference: ± 0.5 K.

Busch-dynasty®

Room thermostats

Product	Article-No.	Order-No.	Pack/Qty



Room thermostat, flush-mounted [1] [2] [3]
Sliding switch, actual value indication, 24 V
With actual value temperature display
Automatic controller calibration
Switch contact opens when the set temperature is reached.
With built-in slide switch and control lamp for nightly reduction of 4 K.
With fixing claws.
Separate terminal to activate nighttime mode and reduction of room temperature by 4K.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 24 V~
Rated current: 1 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1096 UTA	2CKA001032A0489	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat, e.g., Art. No. 6164/10 .
[3] Switching temperature difference: ± 0.5 K.



Room thermostat, flush-mounted [1] [2] [3]
Change-over contact, actual value indication
With actual value temperature display
Automatic controller calibration
With fixing claws.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 5 A
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1097 UTA	2CKA001032A0490	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo valves of "closed or open when de-energized“ design are required for the controller. E.g. article no. 6164/10-101.
[3] Switching temperature difference: ± 0.5 K.



Room thermostat, flush-mounted [1] [2] [3]
Change-over contact, setpoint indication, timer
With change-over contact.
Easy adjustment using menu and text-based display.
4 switching times per day can be user-defined for each day of the week.
With fixing claws.
Automatic summer/wintertime switch-over
Power reserve > 10 hours.
To fit cover plate 6435-xxx.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 10 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9

	1098 U-101	2CKA001032A0508	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo valves of "closed or open when de-energized“ design are required for the controller. E.g. article no. 6164/10-101.
[3] Switching temperature difference: ± 0.5 K.

Product	Article-No.	Order-No.	Pack/Qty



Room thermostat, flush-mounted [1]
Remote sensor
With remote sensor and thermal feedback
For underfloor heating.
With built-in slide switch and control lamp for nightly reduction of 4 K.
Switch contact opens when the set temperature is reached.
With fixing claws.
Remote sensor cable length: 4 m.
Sensor =NTC, 10 kilo-ohm at 25 degrees C.
Adjusting range: +10 to +50° C.
Connecting cable: 1mm² to 2.5 mm²
Separate terminal to activate nighttime mode and reduction of room temperature by 4K.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 16 A, cos ϕ 1
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1095 UF	2CKA001032A0497	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)



Room thermostat, flush-mounted [1] [2] [3]
1gang 2way
With fixing claws.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 5 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1097 U-500	2CKA001032A0513	1/10

Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo valves of "closed or open when de-energized“ design are required for the controller. E.g. article no. 6164/10-101.
[3] Switching temperature difference: ± 0.5 K.

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Room thermostats

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted [1] [2]** **Change-over contact, setpoint indication, timer, remote sensor** With change-over contact. Easy adjustment using menu and text-based display. 4 switching times per day can be user-defined for each day of the week. With fixing claws. Automatic summer/wintertime switch-over Remote sensor cable length: 4 m. Sensor =NTC, 10 kilo-ohm at 25 degrees C. Power reserve > 10 hours To fit cover plate 6435-xxx. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Rated current: 16 A Temperature range (Device): 10 °C to 50 °C Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9		
	1098 UF-101	2CKA001032A0509	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo valves of "closed or open when de-energized“ design are required for the controller. E.g. article no. 6164/10-101.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **for room thermostat** For room thermostats 1094 U/UF, 1097 U/UF.		
anthracite	**1794-81**	2CKA001710A3629	10
ivory white	**1794-82**	2CKA001710A3543	10
antique brass [1]	**1794-840-500**	2CKA001710A4087	10

[1] Plastic surface refined by hand.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **for room thermostat** With sliding switch for nightly room temperature reduction. to activate nighttime mode and reduction of room temperature by 4K, for thermostats 1095 U, 1096 U and 1095 UF.		
anthracite	**1795-81**	2CKA001710A3630	10
ivory white	**1795-82**	2CKA001710A3568	10
antique brass [1]	**1795-840-500**	2CKA001710A4088	10

[1] Plastic surface refined by hand.

LED light

Product	Article-No.	Order-No.	Pack/Qty
	**Info light unit [1] [2]** Size of information field 43 x 43 mm. Long service life of the lighting element (LEDs). Homogeneous backlighting of the information field. Colour temperature 6,500 K (cold white) Power consumption: < 0.5 W Rated voltage: 230 V~ Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20		
	2062 U	2CKA001511A0115	1/10

[1] Use relay inserts when switching through movement sensors or comfort switches.
[2] For switching the LED flush mounted insert use switches without orientation light only.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1] [2]** As cover for flush-mounted info light. For insert 2062 U. Size of information field 43 x 43 mm.		
anthracite	**1716-81**	2CKA001731A1921	1
ivory white	**1716-82**	2CKA001731A1922	1
antique brass [3]	**1716-840-500**	2CKA001731A2025	1

[1] Included with the cover are 46 different text labels and symbols.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Plastic surface refined by hand.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **for indication lamp** For insert 2061/2661 U. As cover for flush-mounted light signal. Protection class (Device): IP 20		
anthracite	**1756-81**	2CKA001753A0089	10
ivory white	**1756-82**	2CKA001753A0090	10

Product	Article-No.	Order-No.	Pack/Qty
	**Cap** **for indication lamp** For indication lamps. Protection class (Device): IP 20		
clear-transparent	**1565-11**	2CKA001565A0167	10
Red	**1565-12**	2CKA001565A0175	10
green	**1565-13**	2CKA001565A0183	10

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WaveLINE control elements

Product	Article-No.	Order-No.	Pack/Qty
	**Wall-mounted transmitter WaveLINE [1] [2]** **1-channel** 1gang wall-mounted transmitter independent of mains power supply. With labelling field and labelling strip. For switching and dimming. For controlling blinds and light scenes. 1 radio channel can be operated or up to 2 light scenes can be called up. For flush-mounted WaveLINE actuators 6701-101, 6702, 6703, 6704 and 6705-101. For LED display WaveLINE 6730-xxx. Compatible with WaveLINE KNX gateway TP-RF 6770. Send frequency: 868 MHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery Type CR2032. Battery service life: typically 5 years, therefore practically maintenance-free. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Control element: rocker switch left/right Display elements: LED to indicate the transmission Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 16 mm		
ivory white	**6731-82-500**	2CKA006730A0032	1/10
antique brass [3]	**6731-840-500**	2CKA006730A0094	1

[1] Battery included in delivery.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Plastic surface refined by hand.

Product	Article-No.	Order-No.	Pack/Qty
	**Wall-mounted transmitter WaveLINE [1] [2]** **2-channel** 2gang wall-mounted transmitter independent of mains power supply. With labelling field and labelling strip. For switching and dimming. For controlling blinds and light scenes. 2 radio channels can be operated or up to 4 light scenes can be called up. For flush-mounted WaveLINE actuators 6701-101, 6702, 6703, 6704 and 6705-101. For LED display WaveLINE 6730-xxx. Compatible with WaveLINE KNX gateway TP-RF 6770. Send frequency: 868 MHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery Type CR2032. Battery service life: typically 5 years, therefore practically maintenance-free. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Control element: rocker switch left/right Display elements: LED to indicate the transmission Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 16 mm		
ivory white	**6732-82-500**	2CKA006730A0033	1/10
antique brass [3]	**6732-840-500**	2CKA006730A0095	1

[1] Battery included in delivery.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Plastic surface refined by hand.

WaveLINE inserts / control elements

Product	Article-No.	Order-No.	Pack/Qty
	**RF remote control** • Network-independent radio control. • For switching and dimming. • For controlling blinds and light scenes. • With 3 groups (A, B or C) with 5 pairs of channels. • There are 15 radio channels operated singly or up to 30 light scenes can be called.		
	6780	2CKA006780A0002	1
	**1-fach Aktor WaveLINE** • For wireless switching of electrical loads. • Functions via radio control: ON/OFF, timer and light scene control. • Functions via the extension unit: ON/OFF, timer and sending a radio control telegram. • Operation via conventional push button (2020 US/2021/6 UK) possible.		
	6701-101-500	2CKA006700A0040	1
	**1-fach Aktor WaveLINE** • For wireless switching of electrical loads. • For functions ON/OFF, timer and lightscene control. • For wall mounted transmitter Waveline 6731-xxx, 6732-xxx und 6733-xxx. • For remote control WaveLINE 6780. • Switch-off delay: Adjustable between 10 s to 5 min.		
	6702-500	2CKA006700A0023	1
	**2-fach Aktor WaveLINE** • For wireless switching of electrical loads. • For operation mode 2gang switch, 2 separate outputs. • For operation mode timer: output 1 (eg lighting), output 2: ON/Off delay in dependence of output 1 (eg fan control). • For functions: ON/OFF and light scene control. • For wall mounted transmitter Waveline 6731-xxx, 6732-xxx und 6733-xxx		
	6703-500	2CKA006700A0024	1
	**Dimm Aktor WaveLINE** • For wireless switching and dimming of electrical loads. • For functions ON/OFF, dimming and lightscene control. • With soft ON/OFF function. • With selectable light value storage. • For wall mounted transmitter Waveline 6731-xxx, 6732-xxx und 6733-xxx.		
	6704-500	2CKA006700A0025	1

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ZigBee Light Link inserts / control elements

Product	Article-No.	Order-No.	Pack/Qty
	**Serien/Jalousieaktor WaveL** • For wireless switching of electrical loads. • For driving and adjusting blinds/shutters and awnings over radio. • Functions via radio control: 2gang switch, blind switch and light scene control. • Functions via extension unit: 2gang switch, blind switch and send radio control telegram. • Operation via conventional push button (2020 US/2021/6 UK) possible.		
	6705-101-500	2CKA006700A0042	1
	**2-fach Binärein. WaveLINE** • Radio control telegrams are sent when the two extension units are activated with mains voltage (AC 230 V~). • Operation via conventional push button (2020 US/2021/6 UK) possible. • The 2gang binary input has 5 function modes: 1) 2-channel switching 2) 2-channel dimming 3) 1 channel blind 4) Two-channel light scene control 5) Channel 1: Switching ON Channel 2: Continuous switching ON/OFF		
	6725-500	2CKA006720A0008	1

Product	Article-No.	Order-No.	Pack/Qty
	**Wall-mounted transmitter WaveLINE [1] [2]** **4-channel** 4gang wall-mounted transmitter independent of mains power supply. With labelling field and labelling strip. For switching and dimming. For controlling blinds and light scenes. 4 radio channels can be operated or up to 8 light scenes can be called up. For flush-mounted WaveLINE actuators 6701-101, 6702, 6703, 6704 and 6705-101. Send frequency: 868 MHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery Type CR2032. Battery service life: typically 5 years, therefore practically maintenance-free. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Control element: rocker switch left/right Display elements: LED to indicate the transmission Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 16 mm		
ivory white	**6733-82-500**	2CKA006730A0034	1/10

[1] Battery included in delivery.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

	**ZLL-Power supply insert** • With electronic short-circuit protection. • With electronic overload protection. • For ZigBee Light Link control element 6735-xxx, 6736-xxx and 6737-xxx. • Without control cover. • Rated voltage: 230 V~, +10 % / -10 % • Secondary: 5 V-, +5 % / -5 %		
	6710 U-500	2CKA006710A0005	1
	**ZLL-Relay insert** • 3 wire connection (neutral conductor required). • For switching retrofit LED lamps (LEDi). • For switching incandescent lamps, 230 V tungsten halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are actuated via transformers. • Without control cover.		
	6711 U-500	2CKA006710A0006	1
	**ZLL-Dimmer insert** • Touch dimmer. • For wireless switching and dimming of electrical loads. • 3 wire connection (neutral conductor required). • Optimised for dimming of retrofit LED lamps (LEDi). • For incandescent lamps, 230V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers and dimmable halogen energy-saving lamps.		
	6715 U-500	2CKA006710A0007	1
	**ZLL-Plug-in unit Switch** • Plug device for switching electric loads up to 1,380 W/VA. • Control of thermal positioners for heating control possible. • Not for electrical heating devices. • Connected load can be activated/deactivated via micro switch. • Send/receive frequency: 2.4 GHz.		
	6717-84-500	2CKA006710A0008	1

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WaveLINE control elements

Product	Article-No.	Order-No.	Pack/Qty
	ZigBee Light Link wall-mounted transmitter 1-channel 1gang wall-mounted transmitter independent of mains power supply. For the wireless remote control of other ZigBee Light Link radio components. For saving and calling up 2 light scenes. For dimming a light scene. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery type CR2450 (included in scope of delivery) Battery service life: typically 3 years. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
anthracite	**6735/01-81**	2CKA006730A0079	1
ivory white	**6735/01-82**	2CKA006730A0080	1

Product	Article-No.	Order-No.	Pack/Qty
	ZigBee Light Link wall-mounted transmitter 2-channel 2gang wall-mounted transmitter independent of mains power supply. For the wireless remote control of other ZigBee Light Link radio components. For saving and calling up 4 light scenes. For dimming 2 light scenes. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery type CR2450 (included in scope of delivery) Battery service life: typically 3 years. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
anthracite	**6736/01-81**	2CKA006730A0083	1
ivory white	**6736/01-82**	2CKA006730A0084	1

Product	Article-No.	Order-No.	Pack/Qty
	**ZigBee Light Link wall-mounted transmitter 4-channel** 4gang wall-mounted transmitter independent of mains power supply. For the wireless remote control of other ZigBee Light Link radio components. For saving and calling up 8 light scenes. For dimming 4 light scenes. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery type CR2450 (included in scope of delivery) Battery service life: typically 3 years. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
anthracite	**6737/01-81**	2CKA006730A0087	1
ivory white	**6737/01-82**	2CKA006730A0088	1

Product	Article-No.	Order-No.	Pack/Qty
	ZigBee Light Link control element 1gang For wireless switching and dimming of electrical loads. For ZigBee Light Link flush-mounted inserts 6710 U, 6711 U and 6715 U. In connection with the ZigBee Light Link flush-mounted inserts 6711 U and 6715 U the top rocker is used to switch or dim the non-ZLL lamps connected to the flush-mounted insert directly. In the case of 6736 and 6737, the other keys can be used for saving, calling and dimming lightscenes. In combination with the ZigBee LightLink-UP insert 6710 U for storing and calling up 2 light scenes or dimming a light scene. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. Push-button function: Switching/dimming/light scenes. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
anthracite	**6735-81**	2CKA006730A0067	1
ivory white	**6735-82**	2CKA006730A0068	1

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WaveLINE control elements

Product	Article-No.	Order-No.	Pack/Qty
	ZigBee Light Link control element 2gang For wireless switching and dimming of electrical loads. For ZigBee Light Link flush-mounted inserts 6710 U, 6711 U and 6715 U. In connection with the ZigBee Light Link flush-mounted inserts 6711 U and 6715 U the top rocker is used to switch or dim the non-ZLL lamps connected to the flush-mounted insert directly. In the case of 6736 and 6737, the other keys can be used for saving, calling and dimming lightscenes. In combination with the ZigBee LightLink-UP insert 6710 U for storing and calling up 4 light scenes or dimming 2 light scenes. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
anthracite	**6736-81**	2CKA006730A0071	1
ivory white	**6736-82**	2CKA006730A0072	1

Product	Article-No.	Order-No.	Pack/Qty
	**ZigBee Light Link control element 4gang** For wireless switching and dimming of electrical loads. For ZigBee Light Link flush-mounted inserts 6710 U, 6711 U and 6715 U. In connection with the ZigBee Light Link flush-mounted inserts 6711 U and 6715 U the top rocker is used to switch or dim the non-ZLL lamps connected to the flush-mounted insert directly. In the case of 6736 and 6737, the other keys can be used for saving, calling and dimming lightscenes. In combination with the ZigBee LightLink-UP insert 6710 U for storing and calling up 8 light scenes or dimming 4 light scenes. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
anthracite	**6737-81**	2CKA006730A0075	1
ivory white	**6737-82**	2CKA006730A0076	1

KNX control elements

Product	Article-No.	Order-No.	Pack/Qty
	**Control element, 1/2gang [1] [2] multi-function/colour concept** For ABB i-bus® KNX 6120/12-101, 6120/13. With labelling field. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. Push switch function: switching / dimming / blind / sending values / scenes etc. Transparent labelling sheet with standard symbols included in delivery. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). Control element: rocker switch left/right Display elements: Two LED per rocker via separate communication object for status (Red/ Green/ OFF) or orientation light. Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm		
anthracite	**6125/02-81-500**	2CKA006115A0216	1
ivory white	**6125/02-82-500**	2CKA006115A0217	1
antique brass [3]	**6125/02-840-500**	2CKA006115A0452	1

[1] For software and description please check the current Online-Catalogue.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Plastic surface refined by hand.

Product	Article-No.	Order-No.	Pack/Qty
	**Control element, 2/4gang [1] [2] multi-function/colour concept** For ABB i-bus® KNX 6120/12-101, 6120/13. With labelling field. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. Push switch function: switching / dimming / blind / sending values / scenes etc. Transparent labelling sheet with standard symbols included in delivery. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). Control element: rocker switch left/right Display elements: Two LED per rocker via separate communication object for status (Red/ Green/ OFF) or orientation light. Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm		
anthracite	**6126/02-81-500**	2CKA006116A0206	1
ivory white	**6126/02-82-500**	2CKA006116A0207	1
antique brass [3]	**6126/02-840-500**	2CKA006116A0227	1

[1] For software and description please check the current Online-Catalogue.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Plastic surface refined by hand.

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KNX control elements

Product	Article-No.	Order-No.	Pack/Qty
	**Control element, 4/8gang [1] [2]** **multi-function/colour concept** For ABB i-bus® KNX 6120/12-101, 6120/13. With labelling field. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. Push switch function: switching / dimming / blind / sending values / scenes etc. Transparent labelling sheet with standard symbols included in delivery. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). Control element: rocker switch left/right Display elements: Two LED per rocker via separate communication object for status (Red/ Green/ OFF) or orientation light. Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm		
anthracite	**6127/02-81-500**	2CKA006117A0232	1
ivory white	**6127/02-82-500**	2CKA006117A0233	1
antique brass [3]	**6127/02-840-500**	2CKA006117A0252	1

[1] For software and description please check the current Online-Catalogue.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Plastic surface refined by hand.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flush-mounted standard sensor [1]** For ABB i-bus® KNX 6120/12-101, 6120/13. Movement detector with up to 4 channels. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). Detection range: frontal: 6 m, lateral: 6 m Detection angle: 180 ° Brightness limit value: 5 Lux - 150 Lux Mounting height: 1.1 m Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 18 mm Position for installation: vertical		
	with select-lens [2] *)		
anthracite	**6122/01-81-500**	2CKA006132A0272	1
ivory white	**6122/01-82-500**	2CKA006132A0273	1
antique brass [3]	**6122/01-840-500**	2CKA006132A0355	1
	with integrated bus coupler		
anthracite	**6122/10-81-500**	2CKA006132A0376	1
ivory white	**6122/10-82-500**	2CKA006132A0377	1
antique brass	**6122/10-840-500**	2CKA006132A0407	1

[1] For software and description please check the current Online-Catalogue.
[2] For compatible cover frames, see the following ranges: carat®, pure stainless steel, solo®, Busch-axcent® or future® linear.
[3] Plastic surface refined by hand.
*) Phase-out type

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate for room temperature controller or room temperature controller with CO2/moisture** As cover for room temperature controller with/without CO2/moisture sensor (6109/18 and 6109/28). Protection class (Device): none		
anthracite	**6109/03-81-500**	2CKA006155A0060	10
ivory white	**6109/03-82-500**	2CKA006155A0061	10
antique brass [1]	**6109/03-840-500**	2CKA006155A0114	10

[1] Plastic surface refined by hand.

Busch-dynasty®

Accessories

Product	Article-No.	Order-No.	Pack/Qty
	**Extension of claws [1])** For the installation of flush-mounted SCHUKO® socket outlets and also switches, push-buttons, etc. and deeply installed flush-mounted boxes. Protection class (Device): IP 20		
	2148	2CKA002148A0120	100

[1]) Not suitable for types 2000/3 US, 2000/6/2 US, 2000/6/6 US-101 and double socket outlets.

	**Braille symbol** self-adhesive (transparent) for cover 2506-xxx Protection class (Device): IP 20		
	light		
	2144 LI	2CKA001714A0295	10/1000
	bell		
	2144 KI	2CKA001714A0296	10/1000
	key		
	2144 TR	2CKA001714A0297	10/1000

	**Braille symbol** **socket outlet** self-adhesive, transparent for SCHUKO® socket outlets with hinged lid 20 EUK-xxx Protection class (Device): IP 20		
	2144 ST	2CKA001714A0298	10/1000

	DIN A 4 labelling sheet [1]) **plastic foil** Suitable for all to be labeled Busch-Jaeger devices. For laser printer. The text of the foil is printed via the Busch-Jeager labeling service. Dimensions: (L x W x D): 297 mm		
translucent	**1799/02**	2CKA001799A0959	1
transparent	**1799/03**	2CKA001799A0960	1

[1]) 1 piece = 1 sheet.

	**RC suppressor** For protection against the damage or destruction of electronic devices due to overvoltages. For wiring network-interconnected inductivities (e.g.. relay, protection, fluorescent lamps, transformers, etc.). Eliminates functional disturbances on electronic devices, e.g. automatic circuit reclosure (clocking) of a movement detector. Dimensions: diameter 25 mm, length 35 mm, length of the connecting cable approx. 100 mm. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz		
	6899	2CKA006899A0231	10

Cover frames

Product	Article-No.	Order-No.	Pack/Qty
	**Cover frame** **1gang frame** For vertical or horizontal installation. Protection class (Device): IP 20 Dimensions: (L x W x D): 106 mm x 106 mm x 12 mm		
anthracite	**1721-831-500**	2CKA001754A4605	10
ivory white	**1721-832-500**	2CKA001754A4600	10
polished brass decor anthracite [1])	**1721-833-500**	2CKA001754A4575	1
polished brass anthracite [1])	**1721-835-500**	2CKA001754A4565	1
polished brass decor ivory white [1])	**1721-836-500**	2CKA001754A4570	1
polished brass ivory white [1])	**1721-838-500**	2CKA001754A4560	1
antique brass decor anthracite [2])	**1721-843-500**	2CKA001754A4595	1
antique brass anthracite [2])	**1721-845-500**	2CKA001754A4585	1
antique brass decor ivory white [2])	**1721-846-500**	2CKA001754A4590	1
antique brass ivory white [2])	**1721-848-500**	2CKA001754A4580	1

[1]) Real metal surface.
[2]) Real metal surface refined by hand.

	**Cover frame** **2gang frame** For vertical or horizontal installation. Protection class (Device): IP 20 Dimensions: (L x W x D): 177 mm x 106 mm x 12 mm		
anthracite	**1722-831-500**	2CKA001754A4606	10
ivory white	**1722-832-500**	2CKA001754A4601	10
polished brass decor anthracite [1])	**1722-833-500**	2CKA001754A4576	1
polished brass anthracite [1])	**1722-835-500**	2CKA001754A4566	1
polished brass decor ivory white [1])	**1722-836-500**	2CKA001754A4571	1
polished brass ivory white [1])	**1722-838-500**	2CKA001754A4561	1
antique brass decor anthracite [2])	**1722-843-500**	2CKA001754A4596	1
antique brass anthracite [2])	**1722-845-500**	2CKA001754A4586	1
antique brass decor ivory white [2])	**1722-846-500**	2CKA001754A4591	1
antique brass ivory white [2])	**1722-848-500**	2CKA001754A4581	1

[1]) Real metal surface.
[2]) Real metal surface refined by hand.

Busch-dynasty®

Cover frames

Product	Article-No.	Order-No.	Pack/Qty
	**Cover frame** **3gang frame** For vertical or horizontal installation. Protection class (Device): IP 20 Dimensions: (L x W x D): 248 mm x 106 mm x 12 mm		
anthracite	**1723-831-500**	2CKA001754A4607	5
ivory white	**1723-832-500**	2CKA001754A4602	5
polished brass decor anthracite [1])	**1723-833-500**	2CKA001754A4577	1
polished brass anthracite [1])	**1723-835-500**	2CKA001754A4567	1
polished brass decor ivory white [1])	**1723-836-500**	2CKA001754A4572	1
polished brass ivory white [1])	**1723-838-500**	2CKA001754A4562	1
antique brass decor anthracite [2])	**1723-843-500**	2CKA001754A4597	1
antique brass anthracite [2])	**1723-845-500**	2CKA001754A4587	1
antique brass decor ivory white [2])	**1723-846-500**	2CKA001754A4592	1
antique brass ivory white [2])	**1723-848-500**	2CKA001754A4582	1

[1]) Real metal surface.
[2]) Real metal surface refined by hand.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover frame** **4gang frame** For vertical or horizontal installation. Protection class (Device): IP 20 Dimensions: (L x W x D): 319 mm x 106 mm x 12 mm		
anthracite	**1724-831-500**	2CKA001754A4608	1
ivory white	**1724-832-500**	2CKA001754A4603	1
polished brass decor anthracite [1])	**1724-833-500**	2CKA001754A4578	1
polished brass anthracite [1])	**1724-835-500**	2CKA001754A4568	1
polished brass decor ivory white [1])	**1724-836-500**	2CKA001754A4573	1
polished brass ivory white [1])	**1724-838-500**	2CKA001754A4563	1
antique brass decor anthracite [2])	**1724-843-500**	2CKA001754A4598	1
antique brass anthracite [2])	**1724-845-500**	2CKA001754A4588	1
antique brass decor ivory white [2])	**1724-846-500**	2CKA001754A4593	1
antique brass ivory white [2])	**1724-848-500**	2CKA001754A4583	1

[1]) Real metal surface.
[2]) Real metal surface refined by hand.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover frame** **5gang frame** For vertical or horizontal installation. Protection class (Device): IP 20 Dimensions: (L x W x D): 390 mm x 106 mm x 12 mm		
anthracite	**1725-831-500**	2CKA001754A4609	1
ivory white	**1725-832-500**	2CKA001754A4604	1
polished brass decor anthracite [1])	**1725-833-500**	2CKA001754A4579	1
polished brass anthracite [1])	**1725-835-500**	2CKA001754A4569	1
polished brass decor ivory white [1])	**1725-836-500**	2CKA001754A4574	1
polished brass ivory white [1])	**1725-838-500**	2CKA001754A4564	1
antique brass decor anthracite [2])	**1725-843-500**	2CKA001754A4599	1
antique brass anthracite [2])	**1725-845-500**	2CKA001754A4589	1
antique brass decor ivory white [2])	**1725-846-500**	2CKA001754A4594	1
antique brass ivory white [2])	**1725-848-500**	2CKA001754A4584	1

[1]) Real metal surface.
[2]) Real metal surface refined by hand.

Notes

pure stainless steel
Lasts a lifetime.

Fascinatingly bold straight lines in a time proof material. It is pure stainless steel. Fingerprints? It is impossible, thanks to the unique finishing. An accord of aesthetics, functions and durability. Absolute quality. Pure stainless steel is simply permanent.



01 Switch/push-switch
02 2gang-1way/2way switch
03 Busch-Blind control switch
04 Busch-Comfort switch
05 20A double pole switch with marking and indicator
Colour: stainless steel

Materials
The series is surface-coated in a special manufacturing process. This means that fingerprints or other greasy spots are reduced to a minimum (anti-fingerprint).

ANTI FINGERPRINT

pure stainless steel

Selected functions.

01


02


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04


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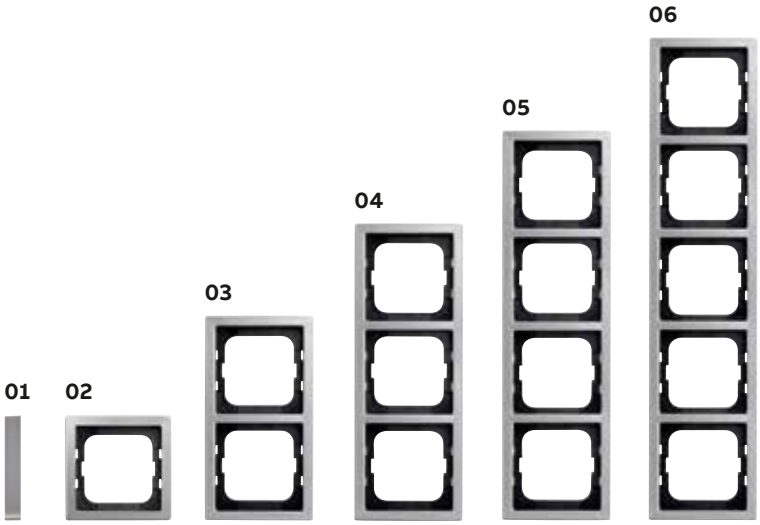

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19


20


21


01 Rocker switch 1gang
02 Rocker switch 2gang
03 Busch Universal Rotary Dimmer
04 Touch dimmer
05 Busch-Comfort switch
06 Busch-steplight®
07 Busch-Protector® SCHUKO® socket outlet with overvoltage protection
08 SCHUKO® USB socket outlet, 2x USB A
09 Socket outlet with earthing pin
10 Switched socket outlet BS standard
11 Blind switch with rotary knob
12 Busch-Blind control switch with semi-cylindrical lock
13 Busch-Blind comfort switch
14 Comfort timer
15 Room thermostat with display
16 Busch-Radio iNet
17 Loudspeaker insert
18 Antenna socket for radio/TV/satellite
19 Universal data connection box
20 Stereo loudspeaker connecting box
21 KNX sensor, for more KNX products see part 12 of the catalogue - Intelligent Building Solutions



1 to 5gang cover frame for horizontal and vertical installation.
01 Side view, 11 mm x 80 mm
02 80 mm x 80 mm
03 80 mm x 151 mm
04 80 mm x 222 mm
05 80 mm x 293 mm
06 80 mm x 364 mm

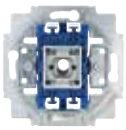
For more information about light switch ranges visit ABB global web sites.

pure stainless steel

Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	1gang 2way		
	2000/6 US-500	2CKA001012A2198	10/100
	2gang 1way		
	2000/5 US-500	2CKA001012A1150	10/100
	DP, 1gang 2way [2]		
	2000/6/2 US	2CKA001012A0954	10
	1gang		
	2000/7 US-500	2CKA001012A2199	10/100
	DP, 1gang 1way		
	2000/2 US-500	2CKA001012A2196	10/100
	SP, 1gang 1way switch		
	2000/1 US-500	2CKA001012A2059	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] With screw-type terminals. Non-illuminable.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	Switch-off and two-way circuit 16 A		
	2400/6 US-500	2CKA001012A2232	10/100
	2gang switch 16 A		
	2400/5 US-500	2CKA001012A2234	10
	1gang intermediate 16 A		
	2400/7 US-500	2CKA001012A2236	10

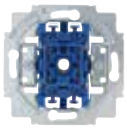
[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** **2gang 2way** With screwless terminals. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	2000/6/6US-101-500	2CKA001011A0928	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** **Changeover/changeover circuit 16 A** With screwless terminals. Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2400/6/6US-101-500	2CKA001022A0663	10

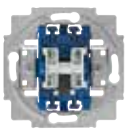
[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1] [2]** **DP, 1gang 1way** For switching high loads. Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2000/2 US-101-500	2CKA001012A2193	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Also for switching SCHUKO® socket outlets.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1] [2]** **3-pole, 1gang 1way switch** Rated voltage: 400 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2000/3 US	2CKA001011A0816	10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] With screw-type terminals. Non-illuminable.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism, control [1]** **2gang switch with N-clamp 16 A** with LED, Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2400/5 USK-500	2CKA001012A2238	10

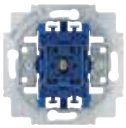
[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

pure stainless steel

Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism** [1] With neon lamp. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	1gang 2way [2]		
	2000/6 USGL-500	2CKA001012A2194	10/100
	2gang 1way		
	2000/5 USGL	2CKA001012A1135	10

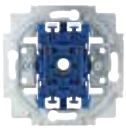
[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Replacement lamps 8360, 8362, and 8363 and LED inserts.

	**Rocker Switch Mechanism, control** [1] [2] [3] With neon lamp. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	1gang 2way with N-terminal		
	2000/6 USK-500	2CKA001022A0659	10/100
	DP, 1gang 1way		
	2000/2 UK	2CKA001022A0656	10

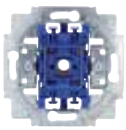
[1] With 1 mA neon lamp.
[2] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[3] Illuminable by using lamps 8360, 8362, 8363, 8365, 8366, and 8367 and LED inserts.

	**Rocker Switch Mechanism, control** [1] [2] [3] **Switch-off and two-way circuit with N-clamp 16 A** With neon lamp. Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2400/6 USK-500	2CKA001022A0661	10

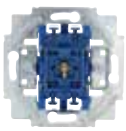
[1] With 1 mA neon lamp.
[2] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[3] Illuminable by using lamps 8360, 8362, 8363, 8365, 8366, and 8367 and LED inserts.

	**Push-switch mechanism** [1] **SP, with normally open contact (operating current)** With N terminal. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 US-500	2CKA001413A0574	10/100

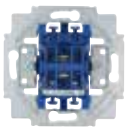
[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Push-switch mechanism** [1] **SP, with normally open contact (operating current)** With 2 independent signalling contacts. Rated voltage: 250 V~ Inputs: 1 Outputs: 1 Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 US-201	2CKA001413A0483	10

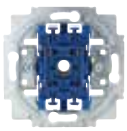
[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Push-switch mechanism** [1] [2] [3] **SP, with normally open contact (operating current)** With illumination. With N terminal. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 USGL-500	2CKA001413A1106	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Replacement lamps 8360, 8362, and 8363 and LED inserts.
[3] For relay and touch dimmer applications.

	**Push-switch mechanism** [1] With one input terminal and 2 actuating covers. Rated voltage: 250 V~ Inputs: 1 Outputs: 2x Normally open contact Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 US-205-500	2CKA001413A1105	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Push-switch mechanism** [1] **SP, 1gang 2way** Can be wired for normally open contacts (stand-by current) or normally closed contacts (operating current). With N terminal. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 US-206-500	2CKA001413A1104	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Rocker** For flush-mounted switch 1g1w, 1g2w, intermediate, push switch. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**1786-866-500**	2CKA001751A3077	10/100

pure stainless steel

Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker** For flush-mounted switch 2g 1w, 2g push switch. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**1785-866-500**	2CKA001751A3087	10/100
	**Rocker** As a cover for flush-mounted control 2gang switch. Protection class (Device): IP 20		
stainless steel	**1785 K-866**	2CKA001751A3132	10
	**Rocker** **with small transparent lens** As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**1789 N-866**	2CKA001751A3152	10/100
	**Rocker** **with small red spherical cap** As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**1789-866**	2CKA001751A2957	10/100
	**Switch rocker with marking** **with small transparent lens** With >Plug< icon. As cover for flush-mounted switch 1g1w DP and 3pole with neon lens and marking "I O" As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way. Protection class (Device): IP 20		
stainless steel	**1789 ST-866**	2CKA001751A3162	10/100
	**Switch rocker with marking** **light** With >Light< icon. For flush-mounted switch 1g1w, 1g2w, intermediate, push switch. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**2520 LI-866**	2CKA001751A3191	10/100
	**Switch rocker with marking** **key** With >Key< icon. For flush-mounted push switch. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**2520 TR-866**	2CKA001751A3200	10/100

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** **bell** With >Bell< icon. For flush-mounted push switch. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**2520 KI-866**	2CKA001751A3181	10/100
	**Switch rocker with marking** **with small transparent lens** With >Light< icon. As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**1789 LI-866**	2CKA001751A2958	10
	**Switch rocker with marking** **with small transparent lens** With >Bell< icon. For flush-mounted push switch. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**1789 KI-866**	2CKA001751A2959	10
	**Switch rocker with marking** **with small transparent lens** With >Key< icon. For flush-mounted push switch. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**1789 TR-866**	2CKA001751A2960	10
	**Switch rocker with marking** **with small red spherical cap** With imprint >0< and >I<. As cover for 2-pole or 3-pole flush-mounted on-off switch and 2-pole control on-off switch. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**1788-866**	2CKA001751A2961	10
	**Rocker** [1] [2] **with labelling field** With pilot lamp for uniform illumination of the labelling field. For flush-mounted switch 1g1w, 1g2w, intermediate, push switch. Size of labelling field: 59.7 x 11.7 mm. Surface painted. Protection class (Device): IP 20		
stainless steel	**1764 NLI-866**	2CKA001731A1953	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Illumination using neon lamp 8353 or incandescent lamp 8344-1 and LED inserts.

pure stainless steel

Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker [1] [2]** **with labelling field** With >Bell< icon. With pilot lamp for uniform illumination of the labelling field. For flush-mounted push switch. Size of labelling field: 59.7 x 11.7 mm. Surface painted. Protection class (Device): IP 20		
stainless steel	**1764 NLI/KI-866**	2CKA001731A4003	10/100

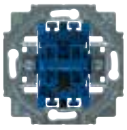
[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Illumination using neon lamp 8353 or incandescent lamp 8344-1 and LED inserts.

	**Switch rocker with marking** **with small red spherical cap** With >Heating< imprint. As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way. As cover for 2-pole or 3-pole flush-mounted on-off switch and 2-pole control on-off switch. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**1789 H-866**	2CKA001751A2963	10

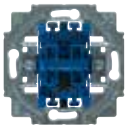
	**Switch rocker with marking** For flush-mounted switch 1g1w, 1g2w, intermediate, push switch. DO NOT DISTURB Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**1786/11-866**	2CKA001751A3002	10

	**Switch rocker with marking** For flush-mounted switch 2g 1w, 2g push switch. DO NOT DISTURB MAKE UP ROOM Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**1785/11-866**	2CKA001751A2996	10

	**Switch rocker with marking** As cover for flush-mounted rocker control switch insert, DND/MUR. DO NOT DISTURB MAKE UP ROOM Protection class (Device): IP 20		
stainless steel	**1785/11 K-866**	2CKA001751A3216	10

	**Rocker switch insert DND/MUR [1]** with LED, Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	2028 UK	2CKA001012A2240	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker switch insert DND/MUR [1]** with LED, Rated voltage: 24 V Rated current: 6 A Protection class (Device): IP 20 IEC 60669-1		
	2028/12 UK	2CKA001012A2241	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Bell push-switch DND/MUR 230 V [1] [2]** with LED, Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
stainless steel	**2029 UC-866**	2CKA001751A3171	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Surface painted.

	**Bell push-switch DND/MUR 24 V [1] [2]** with LED, Rated voltage: 24 V Rated current: 6 A Protection class (Device): IP 20 IEC 60669-1		
stainless steel	**2029/12 UC-866**	2CKA001751A3238	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Surface painted.

	**Cover plate** For card switch. For insert 2025 U. Suitable for cards sized 54 x 86 mm. The inner part of the cover plate is made of light-conducting plastic, so that the card slot is illuminated. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**1792-866**	2CKA001710A3757	10

	**Card switch 10 A [1]** **SP, with normally open contact (operating current)** Illuminable. With N terminal. Rated voltage: 250 V~, Rated current: 10 A Suitable for: LEDi / CFLi Rated power: 100 W, Protection class (Device): IP 20IEC60669-1, British Standard EN 60669-1		
	2025 U	2CKA001012A1713	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
delivery form:	Adapter plate APBS to be ordered separate.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

pure stainless steel

Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Pull switch [1]** **SP, with normally open contact (operating current)** With 2-metre pull cord, red handle, and red neon indicator. Rated voltage: 250 V~ Rated current: 10 A		
	2020/01 US	2CKA001413A1077	10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Pull switch [1]** **SP, break contact** With 2-metre pull cord, red handle, and red neon indicator. Rated voltage: 250 V~ Rated current: 10 A		
	2020/10 US	2CKA001413A1076	10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Rocker** **open for red pull switch neon indicator** For pull switch 2020/xx US. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**1720-866**	2CKA001731A1954	10

	**Three-step rotary switch [1] [2]** **SP, with zero position** With zero position. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
	2710 U	2CKA001101A0918	1/10

[1] Install only in conjunction with wall boxes ø 60 mm.
[2] Not to be mounted in SM box 1701-xxx, 1702-xxx, 1703-xxx.

	**Three-step rotary switch [1] [2]** **SP, without zero position** Without zero position. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
	2710/1 U	2CKA001101A0919	1/10

[1] Install only in conjunction with wall boxes ø 60 mm.
[2] Not to be mounted in SM box 1701-xxx, 1702-xxx, 1703-xxx.

	**Cover plate** **with rotary control, with marking** As cover for flush mounted three-step rotary switch. With zero position. For insert 2710 U. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**2542 DR/01-866**	2CKA001710A3758	10

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **with rotary control, with marking** As cover for flush mounted three-step rotary switch. Without zero position. For insert 2710/1 U. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**2542 DR/02-866**	2CKA001710A3759	10

	**Cover plate [1]** **for pull switch 2610/6 UC-xx, 2610/6 UJ-xx** With screw-type terminal Surface painted. Protection class (Device): IP 20		
stainless steel	**1796-866**	2CKA001753A0312	10

[1] Exchanging the available cover/cover plate.

pure stainless steel

Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**Friends of Hue smart switch insert** **Wall-mounted transmitter, 2 channel** For Friends of Hue smart switch Rocker 6736 FoH-8xx. Smarter light switches for wireless remote control of Philips Hue lamps For switching and dimming of Philips Hue lamps. For saving, calling up and dimming of a maximum of 2 individual light scenes. Without battery and maintenance-free due to >Energy harvesting<. Maximum safety of function by means of Zigbee-Mesh technology. Requires Philips Hue Bridge (2nd generation; square construction type) and Philips Hue app (Version 3.2 or higher). Combinable with the Busch-Jaeger switch ranges carat®, Busch-dynasty®, pure stainless steel, solo®, Busch-axcent® and future® linear. Can be mounted freely in the room with the enclosed adhesive tape and fixing plate. Including fixing plate for mounting on smooth walls or on switch boxes.		
	6716 U-500	2CKA006710A0014	1
	**Rocker [1])** For Friends of Hue smart switch insert 6716 U-500. Combinable with the Busch-Jaeger switch ranges carat®, Busch-dynasty®, pure stainless steel, solo®, Busch-axcent® and future® linear.		
stainless steel	**6736 FoH-866**	2CKA006730A0139	1

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-rotary dimmer [1]) [2]) [3]) [4]) [5]) [6]) [7]) [8]) [9])** **Flush-mounted, LED, 2-100 W** With rotary control, two-way switch and soft-catch. 2-wire connection (neutral conductor not required) Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. Via mode switch adjustable between leading edge control and trailing edge control. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. With adjustable minimum brightness. Without cover plate. Rated voltage: 230 V~, + 10% / - 10% Rated frequency: 50 Hz/60 Hz Nominal power: 2 - 100 W/VA (retrofit LED loads). Nominal power: 10 - 250 W/VA (non-LED loads). Protection class (Device): IP 20 Temperature range (Device): 0 °C to 35 °CIEC 60669-2-1, British Standard EN 60669-2-1 		
	6523 U-102-500	2CKA006512A0335	1/10

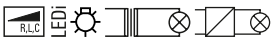
[1]) Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2]) In the case of conventional transformers, take ~20% transformer loss into account.
[3]) In case of electronic transformers, 5 % transformer losses.
[4]) Also applicable for 1gang 2way installations.
[5]) Provided with terminal for net disconnection devices.
[6]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[7]) Recommendation: Please use loads and types of one producer.
[8]) The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[9]) A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

pure stainless steel
Dimmers

Product	Article-No.	Order-No.	Pack/Qty



Busch-rotary dimmer [1] [2] [3] [4] [5] [6] [7] [8] [9]
UP, LED, 2-400 W
Very small installation depth: < 20 mm
Without claws.
With rotary control, two-way switch and soft-catch.
2-wire connection (neutral conductor not required)
Optimised for dimming of retrofit LED lamps (LEDi).
For dimmable Retrofit-LEDs (LEDi).
For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers.
For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps.
Mix operaton of LEDi with conventional loads possible.
With manually adjustable operating mode: trailing / leading edge control.
With adjustable minimum/maximum brightness.
Low-noise level by MOSFET transistors.
With electronic short-circuit protection.
With electronic overload protection.
Without cover plate.
Rated voltage: 230 V~, + 10% / - 10%
Rated frequency: 50 Hz/60 Hz
Nominal power: 2 - 100 W/VA (leading edge control)
Nominal power: 2 - 400 W/VA (trailing edge control)
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °CIEC 60669-2-1, British Standard EN 60669-2-1



	6523 UR-103-500	2CKA006512A0345	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] In case of electronic transformers, 5 % transformer losses.
[4] Also applicable for 1gang 2way installations.
[5] Provided with terminal for net disconnection devices.
[6] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[7] Recommendation: Please use loads and types of one producer.
[8] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[9] A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.



END OF LIFE

Busch-rotary dimmer [1] [2] [3] [4]
flush mounted, R, 60-600 W
With rotary control, 2way On-Off switching and soft-catch.
Leading Edge control.
For incandescent lamps and 230 V tungsten halogen lamps.
With adjustable minimum brightness.
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 60 - 600 W
IEC 60669-2-1, British Standard EN 60669-2-1



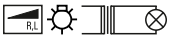
	2250 U-500	2CKA006515A0848	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] Also applicable for 1gang 2way installations.
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Provided with terminal for net disconnection devices.

Product	Article-No.	Order-No.	Pack/Qty



Busch-rotary dimmer [1] [2] [3] [4] [5]
flush mounted, RL, 20-500 W
With rotary control, 2way On-Off switching and soft-catch.
Leading Edge control.
For incandescent lamps, 230 V tungsten halogen lamps and low-volt halogen lamps with conventional transformer.
With adjustable minimum brightness.
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 20 - 500 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1

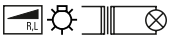


	2247 U-500	2CKA006512A0302	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] Provided with terminal for net disconnection devices.
[4] Also applicable for 1gang 2way installations.
[5] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)



Busch-rotary dimmer [1] [2] [3] [4] [5] [6]
UP, RL, 200-700 W
With rotary control, 2way On-Off switching and soft-catch.
Leading Edge control.
For incandescent lamps, 230 V tungsten halogen lamps and low-volt halogen lamps with conventional transformer.
Short-circuit-proof, overload-protected.
With adjustable minimum brightness.
Without cover plate.
Without claws.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 200 - 700 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1



	6520 U-500	2CKA006520A0227	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] Provided with terminal for net disconnection devices.
[4] Also applicable for 1gang 2way installations.
[5] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[6] Should be mounted in a seperate wallbox.

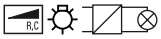
pure stainless steel
Dimmers

Product	Article-No.	Order-No.	Pack/Qty



END OF LIFE

Busch-rotary dimmer [1] [2] [3] [4] [5] [6]
flush mounted, RC, 40-420 W
With rotary control, soft-catch and with trailing edge control.
For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with electronic transformers.
Low-noise, short-circuit-proof, overload-protected.
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 40 - 420 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1



	6513 U-102-500	2CKA006513A0586	1/10

[1] Not suitable with conventional transformers.
[2] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[3] In case of electronic transformers, 5 % transformer losses.
[4] Provided with terminal for net disconnection devices.
[5] Also applicable for 1gang 2way installations.
[6] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)



END OF LIFE

Busch-rotary dimmer [1] [2] [3] [4] [5]
flush mounted, RLC, 60-420 W
with soft-catch
With intelligence for universal operation.
For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers.
Short-circuit-proof, overload-protected.
Capacity expansion via output-side, parallel connectable load line with a power module 6594 U up to 735 W/VA possible. Operation via rotary-type remote control 6592 U possible,
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Rated power: 60 - 420 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1



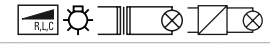
	6591 U-101-500	2CKA006513A0588	1/10

[1] Illuminable with neon lamp 3855. Neon lamp included in delivery with cover plate.
[2] In case of electronic transformers, 5 % transformer losses.
[3] In the case of conventional transformers, take ~20% transformer loss into account.
[4] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[5] Cannot be combined with a 2way switch.



END OF LIFE

Busch-rotary dimmer, extension [1] [2]
flush mounted
for connection to 6591 U-101,
To be used with Busch-Dimmer®, MDRC 6583.
with soft-catch
A maximum of 5 multi-way extensions can be connected to a 6591U-101, Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz



	6592 U-500	2CKA006513A0590	1

[1] Control elements 2115-xxx and 6540-xxx.
[2] Required for illuminating the N-connection control element.

Product	Article-No.	Order-No.	Pack/Qty



Busch-rotary dimmer [1] [2] [3] [4]
flush mounted, 1-10V
With rotary control.
For controlling ballast units for fluorescent lamps with control output 1-10 V DC, control current max. 50 mA DC.
For LED control via control gears
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Rated power: 700 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1

	2112 U-101-500	2CKA006599A2873	1/10

[1] Non-illuminable.
[2] Use cover plates 2115 J-.../2115-.../6540-... .
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Making-current limiters have to be provided in case of too high making currents.



Busch-rotary dimmer [1]
Flush-mounted, DALI, tunable white
For DALI broadcast service (via central telegram).
For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface.
With rotary control and ON/OFF push operation.
Fool proved.
For changing the colour temperature of >tunable white< lamps, which meet DALI Standard IEC 62386-209 (Device Type 8).
Colour temperature can then be set between 2,700 K - 6,500 K.
Brightness power-on level and backround brightness level adjustable, buffered.
With integrated LED illumination for orientation.
Color of orientation light adjustable (18 presets and OFF).
Up to 5 potentiometers are connectable in parallel.
Max. current consumption: 15 mA.
Not suitable for combining with other DALI sensors or central units of other manufacturers.
For the generation of the DALI voltage a power supply according to IEC 62386 is required; e.g. from Tridonic, Philips, Helvar or BJE article no. 2116/11 U.
Max. DALI-cable length: 300 m (1,5 - 2,5 mm²).
Without cover plate.
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °C

	2116 U	2CKA006599A3025	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

pure stainless steel
Dimmers

Product	Article-No.	Order-No.	Pack/Qty



Busch-rotary dimmer [1])
Flush-mounted, DALI, with internal power supply, tunable white
For DALI broadcast service (via central telegram).
With integrated DALI power adaptor.
For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface.
With rotary control and ON/OFF push operation.
For changing the colour temperature of >tunable white< lamps, which meet DALI Standard IEC 62386-209 (Device Type 8).
Colour temperature can then be set between 2,700 K - 6,500 K.
With electronic short-circuit protection.
With electronic overload protection.
Brightness power-on level and backround brightness level adjustable, buffered.
With integrated LED illumination for orientation.
Color of orientation light adjustable (18 presets and OFF).
Up to 5 potentiometers are connectable in parallel.
Up to 3 potentiometers are connectable in parallel in active mode.
Not suitable for combining with other DALI sensors or central units of other manufacturers.
DALI-voltage: 15,5 V=
Rated current: max. 75 mA
Power consumption: < 2,5 W
Number of DALI-units:
37 in case of one active power-potentiometer
in case of three active power-potentiometer in parallel connection: 111
Active mode: the potentiometer is supporting the necessary control circuit for other DALI-devices.
Passive mode: the potentiometer is suitable as additional operation point.
Max. DALI-cable length: 300 m (1,5 - 2,5 mm²).
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °C

	2116/11 U	2CKA006599A3026	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty



Busch-rotary dimmer [1])
flush mounted, DALI
For DALI broadcast service (via central telegram).
For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface.
With rotary control and ON/OFF push operation.
Fool proved.
Brightness power-on level and backround brightness level adjustable, buffered.
With integrated LED illumination for orientation.
Color of orientation light adjustable (18 presets and OFF).
Up to 5 potentiometers are connectable in parallel.
Max. current consumption: 15 mA.
Not suitable for combining with other DALI sensors or central units of other manufacturers.
An additional DALI power supply is needed, e.g. by Tridonic, Philips, Helvar or 2117/11 U.
Max. DALI-cable length: 300 m (1,5 - 2,5 mm²).
Without cover plate.
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °C

	2117 U-500	2CKA006599A2987	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)



Busch-rotary dimmer [1])
flush mounted, DALI, with internal power supply
For DALI broadcast service (via central telegram).
With integrated DALI power adaptor.
For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface.
With rotary control and ON/OFF push operation.
With electronic short-circuit protection.
With electronic overload protection.
Brightness power-on level and backround brightness level adjustable, buffered.
With integrated LED illumination for orientation.
Color of orientation light adjustable (18 presets and OFF).
Up to 5 potentiometers are connectable in parallel.
Up to 3 potentiometers are connectable in parallel in active mode.
Not suitable for combining with other DALI sensors or central units of other manufacturers.
DALI-voltage: 15,5 V=
Rated current: max. 75 mA
Power consumption: < 2,5 W
Number of DALI-units:
37 in case of one active power-potentiometer
in case of three active power-potentiometer in parallel connection: 111
Active mode: the potentiometer is supporting the necessary control circuit for other DALI-devices.
Passive mode: the potentiometer is suitable as additional operation point.
Max. DALI-cable length: 300 m (1,5 - 2,5 mm²).
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °C

	2117/11 U-500	2CKA006599A2988	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

pure stainless steel
Dimmers

Product	Article-No.	Order-No.	Pack/Qty



END OF LIFE

Busch-touch dimmer [1] [2]
flush mounted, RL, 25-500 W
With light-level memory and leading edge control.
For incandescent lamps, 230 V tungsten halogen lamps and low-volt halogen lamps with conventional transformer.
Compatible with control covers 6543-xxx-10x.
Operation also possible via conventional push buttons (2020 US, 2021/6 UK).
Parallel operation of several transformers and/or incandescents lamps possible.
Without control cover.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Rated power: 25 - 500 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1

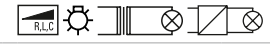


	6560 U-101-500	2CKA006560A1207	1/10

[1] In the case of conventional transformers, take ~20% transformer loss into account.
[2] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)



Busch-touch dimmer [1] [2] [3] [4]
flush mounted, RLC, 60-420 W
With light-level memory and intelligence for universal operation.
Selectable Soft-ON/OFF function and memory function.
Capacity expansion via output-side, parallel connectable load line with a power module 6594 U up to 735 W/VA possible.
For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers.
Short-circuit-proof, overload-protected.
With touch control.
Operation also possible via conventional push buttons (2020 US, 2021/6 UK).
Without control cover.
For control cover with control lamp 6543-xxx-10x.
For Busch-Remote control IR control cover 6066-xxx-10x.
For comfort timer control element 6455-101-500.
For Busch-Watchdog 180 flush-mounted Sensor Standard 6810-21x-101.
For Busch-Watchdog 180 flush-mounted sensor Comfort II 6800-xxx-104 and 6800-xxx-104M.
For Busch-Watchdog Presence tech 6813-xxx-101 und 6813/11-xxx.
Combinable with Busch-Watchdog extension insert 6805 U.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 60 - 420 W
Rated power: 60 - 420 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1



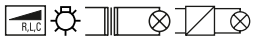
	6593 U-500	2CKA006590A0171	1/10

[1] In the case of conventional transformers, take ~20% transformer loss into account.
[2] In case of electronic transformers, 5 % transformer losses.
[3] In conjunction with 6800-xxx-104 (M) a Soft Off can be adjusted.
[4] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty



Busch-Dimmer®, capacity booster [1]
flush mounted, RLC, 200-315 W
The control is effected by a Busch-Universal master dimmer 6593 U or Busch-Universal rotary dimmer 6591U-101
For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers.
Can only be installed in conjunction with a cover plate 2114-xxx and 6541-xxx.
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 200 - 315 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1



	6594 U-500	2CKA006590A0172	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)



Cover plate [1]
with rotary knob, with indication lamp
Elevated knob.
With transparent luminous ring.
For Busch-Dimmer®.
For inserts
2112 U-101/2247 U/2250 U/6513 U-102/6517 U-10x/ 6519 U/6520 U/6523 U(R)(10x) /6591 U-10x and 6592 U.
Material stainless steel.
Anti fingerprint.

stainless steel	**6540-866-102**	2CKA006599A2959	10/100

[1] Replacement neon lamp, Art. No. 3855.



Control element [1] [2] [3]
with neon lamp
Can be combined with LED dimmer 6524 U, and 6526 U, Busch-Universal touch-type controller 6550 U-10x, Busch-Memory touch dimmer 6560 U-101, Busch-Universal-Dimmer® 6593 U, Busch-Universal relay insert 6401 U-10x, Busch-Universal 2gang insert 6402 U.
Surface painted.

stainless steel	**6543-866-101**	2CKA006599A2926	1/10

[1] Compatible with previous type 6543-xxx.
[2] Touch-type Controller 6550 U-xxx non-illuminable.
[3] Replacement neon lamp 3857.

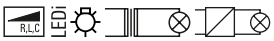


Cover plate [1]
for cooling element
For Busch-Universal master dimmer power module 6594 U.
For KNX room temperature controller object 6109/08.

stainless steel	**6541-866**	2CKA006599A2924	10

[1] Surface painted.

pure stainless steel
Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**LED dimmer insert flex, 1gang [1] [2] [3] [4] [5] [6] FM, LED, 3-240 VA** 2-wire connection (neutral conductor not required). Neutral conductor optionally connectable (recommended for the connection of low loads < 10 W/VA). Touch dimmer for switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. With manually adjustable operating mode: trailing / leading edge control. With adjustable minimum brightness. With light-level memory and minimum brightness memory. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. Without control cover. For control element flex, 1gang, 64711. For control element flex, 2gang, 64721. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Rated power: 3-240 VA (LEDi). Rated voltage: 230 V~, +10 % / -10 %. Rated frequency: 50 Hz. Inputs: 1. Outputs: 1x dimming channel. Suitable for: 230 V LEDi, typical (leading edge control). Rated power: 3 - 100 VA. Suitable for: 230 V LEDi, typical (trailing edge control). Rated power: 3 - 240 W. Suitable for: 230 V incandescent lamps, 230 V halogen lamps and low-voltage halogen lamps with conventional transformers or Busch Electronic Transformer. Rated power: 10 - 240 VA.Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm. Mounting depth: 25 mmIEC 60669-2-1, British Standard EN 60669-2-1 		
	64851 U-500	2CKA006500A0013	1

[1] In the case of conventional transformers, take ~20% transformer loss into account.
[2] In case of electronic transformers, 5 % transformer losses.
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Recommendation: Please use loads and types of one producer.
[5] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[6] A liability on the part of Buscah-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

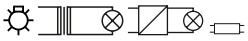
	**Control element, 1 gang flex** Tapping control element, 1gang. Compatible with all free@home flex inserts. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64711-500	2CKA006400A0099	1

Product	Article-No.	Order-No.	Pack/Qty
	**Control element, 1 gang, flex wireless** Tapping control element, 1gang. For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62711-WL-500	2CKA006200A0281	1
	**Flex control element, 2 gang flex** Tapping control element, 2gang For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64721-500	2CKA006400A0101	1
	Control element, 2 gang, flex wireless Tapping control element, 2gang For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62721-WL-500	2CKA006200A0283	1

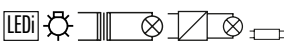
	**Rocker** **1gang, with “Dimmer” icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
stainless steel	SRD-1-866	2CKA006220A0537	1
	**Rocker** **2gang left, with “Dimmer” icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
stainless steel	SRD-2-L-866	2CKA006220A0542	1
	**Rocker** **2gang right, with “Scene” icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
stainless steel	SRS-2-R-866	2CKA006220A0545	1

pure stainless steel

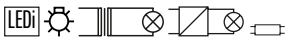
Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Proximity switch** 3 wire connection (neutral conductor required). Relay insert with proximity sensor. For contactless ON/OFF switching of electric loads, e.g. lights. For switching incandescent lamps, 230 V tungsten halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are actuated via transformers. Switches when detecting an approach at < approx. 5 cm. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V incandescent lamps, 230 V halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are operated via transformers. Rated current: 10 AX Rated power: 2300 W/VA Temperature range (Device): -25 °C to 55 °CBritish Standard EN 60669-2-1 		
	6406 U	2CKA006400A0034	1
	**Cover plate [1])** **Proximity switch** For proximity switch 6406 U.		
stainless steel	**6476-866**	2CKA006470A0009	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Relay insert flex, 1gang [1])** 3 wire connection (neutral conductor required). For switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Comfort switch flex control element 64765-... . For Busch-Watchdog 180 flex sensors 6476x-.... For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with extension insert, 64891 U. Rated voltage: 230 V~, +10 % / -10 %. Rated frequency: 50 Hz. Inputs: 1. Outputs: 1x Normally open contact, potential-bound. Suitable for: 230 V- LEDi, typical. Rated power: 300 VA. Suitable for: 230 V incandescent lamps/230 V halogen lamps. Rated power: 2300 W Suitable for: Low voltage halogen lamps that are operated via transformers. Rated power: 2300 VA Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm Mounting depth: 25 mm 		
	64811 U-500	2CKA006800A3042	1/10

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Relay insert flex, 2gang [1])** 3 wire connection (neutral conductor required). For switching lighting systems. For switching two independent load circuits. For controlling light and ventilation systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Comfort switch flex control element 64765-... . For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with extension insert, 64891 U. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 2 Outputs: 2x Normally open contact, potential-bound Suitable for: 230 V- LEDi, typical. Rated power: 300 VA Suitable for: 230 V incandescent lamps/230 V halogen lamps Rated power: 1840 W Suitable for: Low voltage halogen lamps that are operated via transformers. Rated power: 1150 VA Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm Mounting depth: 25 mm 		
	64821 U-500	2CKA006800A3045	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

pure stainless steel

Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**64814 U-500**	2CKA006800A3048	1

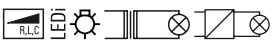
e-contact insert flex, 1gang [1] [2]
2-wire connection (neutral conductor not required)
Neutral conductor optionally connectable (recommended for the connection of low loads < 10 W/VA).
For switching lighting systems.
Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units.
Operation also possible via conventional push buttons (2020 US, 2021/6 UK).
Without control cover.
For control element flex, 1gang, wireless, 62711-WL.
For control element flex, 2gang, wireless, 62721-WL.
For Busch-Watchdog 180 flex sensors 6476x-... .
For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL.
Combinable with extension insert, 64891 U.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Inputs: 1
Outputs: 1x Normally open contact, potential-bound
Suitable for: 230 V- LEDi, typical.
Rated power: 3 - 240 VA
Suitable for: 230 V incandescent lamps/230 V halogen lamps
Rated power: 10 - 240 W
Suitable for: Low voltage halogen lamps that are operated via transformers.
Rated power: 3 - 240 VA
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm
Mounting depth: 25 mm



[1] Use only dimmable high-voltage LEDs.
[2] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**64851 U-500**	2CKA006500A0013	1

LED dimmer insert flex, 1gang [1] [2] [3] [4] [5] [6]
FM, LED, 3-240 VA
2-wire connection (neutral conductor not required)
Neutral conductor optionally connectable (recommended for the connection of low loads < 10 W/VA).
Touch dimmer for switching lighting systems.
Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units.
Operation also possible via conventional push buttons (2020 US, 2021/6 UK).
Optimised for dimming of retrofit LED lamps (LEDi).
For dimmable Retrofit-LEDs (LEDi).
For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers.
For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps.
Mix operaton of LEDi with conventional loads possible.
With manually adjustable operating mode: trailing / leading edge control.
With adjustable minimum brightness.
With light-level memory and minimum brightness memory.
Low-noise level by MOSFET transistors.
With electronic short-circuit protection.
With electronic overload protection.
Without control cover.
For control element flex, 1gang, 64711.
For control element flex, 2gang, 64721.
For control element flex, 1gang, wireless, 62711-WL.
For control element flex, 2gang, wireless, 62721-WL.
For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL.
Rated power: 3-240 VA (LEDi)
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Inputs: 1
Outputs: 1x dimming channel
Suitable for: 230 V LEDi, typical (leading edge control)
Rated power: 3 - 100 VA
Suitable for: 230 V LEDi, typical (trailing edge control)
Rated power: 3 - 240 W
Suitable for: 230 V incandescent lamps, 230 V halogen lamps and low-voltage halogen lamps with conventional transformers or Busch Electronic Transformer.
Rated power: 10 - 240 VA
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm
Mounting depth: 25 mmIEC 60669-2-1, British Standard EN 60669-2-1



[1] In the case of conventional transformers, take ~20% transformer loss into account.
[2] In case of electronic transformers, 5 % transformer losses.
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Recommendation: Please use loads and types of one producer.
[5] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[6] A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

pure stainless steel
Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Extension insert flex [1])** 3 wire connection (neutral conductor required). For the extension of the Busch-Comfort switch or presence detector installations. For group control of flex inserts via extension unit communication. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with all flex inserts. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Control/Signal outputs: 1, electronic output, potential-bound Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm Mounting depth: 25 mm		
	64891 U-500	2CKA006800A3051	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Comfort switch flex sensor** Movement detector push-button switch combination. For switching lighting systems that depend on brightness and movement. Push switch function possible at all times. Extension of the detection range by means of master/slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. Adjustable operating mode: automatic mode, automatic (motion-controlled) switch-on and switch-off. Adjustable operating mode: semiautomatic, manual switch-on, automatic (timer and movement-controlled) switch-off. Adjustable operating mode: automatic mode, automatic switch-on, manual switch-off. With continuous light/continuous Off function. Adjusting elements on rear side. Surveillance density: 9 sectors with 28 switching segments. Switch-off delay: 1 to 10 min., adjustable. Compatible with all free@home flexTronics inserts. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Please order the respective flush-mounted insert separately. The range specifications refer only to an ambient temperature of 21°C.		
	64765-866-500	2CKA006800A2898	–

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flex, basic sensor [1]) [2]) [3])** **with select-lens** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Compatible with all free@home flex inserts. Adjusting elements on rear side. Extension of the detection range by means of master/slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. With detection display in test mode. Surveillance density: 14 sectors with 56 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 22 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Detection range: frontal: 12 m, lateral: 12 m, Mounting height: 1.1 m Detection angle: 180 ° Brightness limit value: 5 Lux - 500 Lux Up to daytime operation Mounting height: 0.8 m - 1.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 35 mm		
stainless steel	**64761-866-500**	2CKA006800A2936	1

[1]) Please order the respective flush-mounted insert separately.
[2]) The range specifications refer only to an ambient temperature of 21°C.
[3]) Surface painted.

	**Busch-Watchdog 180 flex, comfort sensor [1]) [2]) [3])** **with select-lens** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Push switch function possible at all times. In combination with dimmer insert flex: dimming function of lighting and selectable light value storage. With enabling of pre-warning of switch-off for stairwell operation. Compatible with all free@home flex inserts. Adjusting elements on rear side. Extension of the detection range by means of master/slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. With continuous light/ continuous Off function. With detection display in test mode. Surveillance density: 14 sectors with 56 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 22 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Detection range: frontal: 12 m, lateral: 12 m, Mounting height: 1.1 m Detection angle: 180 ° Brightness limit value: 5 Lux - 500 Lux Up to daytime operation Mounting height: 0.8 m - 1.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 35 mm		
stainless steel	**64762-866-500**	2CKA006800A2973	1

[1]) Please order the respective flush-mounted insert separately.
[2]) The range specifications refer only to an ambient temperature of 21°C.
[3]) Surface painted.

pure stainless steel

Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flex, comfort sensor [1] [2] [3]** **with multi-lens** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Push switch function possible at all times. For detection down to the floor. For detection in stairwells. With 4 detection levels. In combination with dimmer insert flex: dimming function of lighting and selectable light value storage. With enabling of pre-warning of switch-off for stairwell operation. Compatible with all free@home flex inserts. Adjusting elements on rear side. Multi-lens: suitable also for mounting heights of 2.20 m. Extension of the detection range by means of master/ slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. With continuous light/continuous Off function. With detection display in test mode. Surveillance density: 54 sectors with 224 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 31 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Detection range: frontal: 8 m, lateral: 7 m, Mounting height: 1.1 m Detection range 2: frontal: 8 m, lateral: 8 m, Mounting height: 2.2 m Detection angle: 180 ° Brightness limit value: 5 Lux - 500 Lux Up to daytime operation Mounting height: 0.8 m - 1.2 m alternative: 2.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 45 mm		
stainless steel	**64764-866-500**	2CKA006800A3010	1

[1] Please order the respective flush-mounted insert separately.
[2] The range specifications refer only to an ambient temperature of 21°C.
[3] Surface painted.

Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Key Switch Insert [1] [2] [3]** **breaking circuit, 1-pole** For profile semi-cylindrical lock. In switched-on and switched-off status the key can be pulled out in the central position, respectively. Delivered without cylindrical lock. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20IEC60669-1, British Standard EN 60669-1		
	2733 USL-101	2CKA001101A0914	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		
delivery form:	Adapter plate APBS to be ordered separate.		

[1] For installation on British Standard wallboxes please use adapter plate APBS (6599-0-2813). (Depth of box 60 mm.)
[2] Use the cylindrical lock according to the enclosed drawing.
[3] See profile semi-cylindrical lock.

Product	Article-No.	Order-No.	Pack/Qty
	**Blind switch insert [1] [2]** **SP, switch** With interlock. Rated voltage: 250 V~ Rated current: 10 AX Protection class (Device): IP 20IEC60669-1, British Standard EN 60669-1		
	2000/4 US-500	2CKA001012A2197	10/100
	2020/4 US-500	2CKA001413A1103	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] These blind switches/push buttons safely prevent a switch-over of the running direction being carried out too quickly.

Product	Article-No.	Order-No.	Pack/Qty
	**Blind switch insert [1] [2]** With rotary knob/switch and push switch. Rated voltage: 250 V~, Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1, British Standard EN 60669-1		
	DP [3]		
	2712 U	2CKA001101A0534	10
	SP, N, E		
	2713 U	2CKA001101A0542	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		
delivery form:	Adapter plate APBS to be ordered separate.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Blind switches/push switches prevents fast change over between operating directions.
[3] Also suitable for controlling direct voltage drives.

pure stainless steel

Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Blind switch insert [1] [2]** With rotary knob/push button. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC60669-1, British Standard EN 60669-1		
	DP [3]		
	2722 U	2CKA001101A0559	10
	SP, N, E		
	2723 U	2CKA001101A0567	10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Blind switches/push switches prevents fast change over between operating directions.
[3] Also suitable for controlling direct voltage drives.

	**Blind switch/push-switch [1] [2] [3] [4]** For profile semi-cylindrical lock/switch and push-switch. Delivered without cylindrical lock. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC60669-1, British Standard EN 60669-1		
	DP [5]		
	2712 USL-101	2CKA001101A0872	10
	SP, N, E		
	2713 USL-101	2CKA001101A0880	10

[1] For installation on British Standard wallboxes please use adapter plate APBS (6599-0-2813). (Depth of box 60 mm.)
[2] Blind switches/push switches prevents fast change over between operating directions.
[3] Use the cylindrical lock according to the enclosed drawing.
[4] See semi-cylindrical lock.
[5] Also suitable for controlling direct voltage drives.

	**Blind switch insert [1] [2] [3] [4]** For profile semi-cylindrical lock/push-button. Delivered without cylindrical lock. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 British Standard EN 60669-1, IEC60669-1		
	DP [5]		
	2722 USL-101	2CKA001101A0898	10
	SP, N, E		
	2723 USL-101	2CKA001101A0906	10

[1] For installation on British Standard wallboxes please use adapter plate APBS (6599-0-2813). (Depth of box 60 mm.)
[2] Blind switches/push switches prevents fast change over between operating directions.
[3] Use the cylindrical lock according to the enclosed drawing.
[4] See semi-cylindrical lock.
[5] Also suitable for controlling direct voltage drives.

Product	Article-No.	Order-No.	Pack/Qty
	**DIN profile-semi cylindrical lock** Acc. to German Standard DIN 18252. Total length 40 mm for blind switches and push switches For inserts 2712/2713/2722/2723/2733 USL-101 and 2712/2733 SLW-5x. Protection class (Device): IP 20		
	different lock mechanism, with 3 keys		
	0520 PZ-VS	2CKA000470A0013	1/100
	lock mechanism, with 3 keys		
	0521 PZ-GS	2CKA000470A0021	1/100
	**Blind compact timer** Suitable for blind and roller blind drives with mechanical or electronic limit switch shut-off. Without extension unit input. Running time: 3 min N-busbar connection is required. For manual and time-controlled switching of blinds and roller blinds. Memory function for the simple storage of switching times. The controlled devices can be manually operated at any time. Simple setting via display with with segment display and background illumination. Factory pre-set switching times, individual adaptations are possible. 2 switching times per day can be freely adjusted for each day of the week. Automatic switchover from summer time to winter time (switch-off function). Switching times and programs are safely stored in the event of a mains power failure. Power reserve for time and date > 10 years. Simple toggling between manual/automatic/vacation modes. See the associated cover plates 6435-xx. Programming possible only with control element attached and energized. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 2x Normally open contact Rated current: 3 A, cos ϕ 0.5 Rated power: 690 VA Temperature range (Device): 0 °C to 45 °C		
	6422 U-500	2CKA006410A0410	1/10

pure stainless steel

Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty



Basic blind insert [1] [2]
2-wire blind insert
Suitable for blind and roller blind drives with mechanical or electronic limit switch shut-off. Suitable for operation without neutral conductor. Without an extension input. For control cover 6430-xx-xxx. For standard timer control element 6456-101. Running time: 3 min
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Outputs: 2x Normally open contact
Rated current: 3 A, cos ϕ 0.5
Rated power: 690 VA
Temperature range (Device): 0 °C to 35 °C

	6418 U-500	2CKA006410A0376	1/10

Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.

[1] N-conductor connection required for operation with control cover 6430-7x, illuminated.
[2] N-conductor connection may be required for operation with blind and roller blind drives with electronic limit switch shut-off. If no N-conductor is available, capacitor set 6498 can be used.



Busch-Blind control II switch insert [1]
Suitable for blind, roller blind and awning drives with mechanical or electronic limit switch shut-off. With two 230 V multi-way input terminals (Up/Down) for group control. With operating mode switch for the following modes: normal, louvre, base station, position. With party function (disables the local control unit) in combination with Busch-Blind control II control cover 6430-xx-xxx, 6066-xx-xxx. Wind alarm, cleaning functions can be accommodated via extension input. For control cover 6430-xx-xxx. For IR control element 6066-xx-xxx. For comfort timer control element 6455-101-500.
Running time: 3 min
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Outputs: 2x Normally open contact
Rated current: 3 A, cos ϕ 0.5
Rated power: 690 VA

Control/Signal outputs: 2
Temperature range (Device): 0 °C to 35 °C

	6411 U-500-101	2CKA006410A0378	1/10

[1] Compatible with types 6411 U/x.



Brightness sensor
For insert 6411U/S-101.
With 2 m connecting cable.
Measuring range: 15-50,000 lux.

	6414-101	2CKA006410A0389	1/10



Sun sensor
For insert 6411U/S-101.
Measuring range: 5-50,000 lux.

	6482	2CKA006410A0203	1

Product	Article-No.	Order-No.	Pack/Qty



Busch-Short-time timer insert [1]
countdown timer
For time-programmed switching of electrical consumers. With control cover, without cover plate.
Minimum timer time: 1 second.
Maximum timer time: 9:59:59 hours.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Outputs: 1x Normally open contact
Rated current: 10 A, cos ϕ 1
Rated power: 2300 VA
Temperature range (Device): 0 °C to 35 °CIEC 60669-2-1, British Standard EN 60669-2-1

	6465 U-101-500	2CKA006410A0393	1/10

Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.
Cover frames:	1gang frame 1721 BS-2xG or Dual Box frame 1722 BSDB-2xG.
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.
neon indicator:	not applicable

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)



Rocker
with marking
As cover for flush-mounted blind control switch/push switch.
For inserts 2000/4 and 2020/4 US.
Material stainless steel.
Anti fingerprint.
Protection class (Device): IP 20

stainless steel	**1785 JA-866**	2CKA001751A2964	10



Cover plate
with rotary control, with marking
As cover for flush-mounted blind control switch/push switch. For inserts 2712 U, 2713 U and 2722 U, 2723 U.
Material stainless steel.
Anti fingerprint.
Protection class (Device): IP 20

stainless steel	**1740-866**	2CKA001710A3748	10



Cover plate [1]
with labelling field
With marking.
For half-cylindrical type switches and blind control switch/push-switch. For inserts 2733 USL-101 and 2712 USL-101, 2713 USL-101, 2722 USL-101, 2723 USL-101.
Surface painted.
Protection class (Device): IP 20

stainless steel	**1755 SL/PZ-866-101**	2CKA001710A3749	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.



Control element
For Busch-Blind control II insert 6411 U-101, 6411 U/S-101.
For basic blind insert 6418 U.
For Busch-Universal 2gang 1way insert 6402 U.
Surface painted.

stainless steel	**6430-866-102**	2CKA006430A0343	1/10

pure stainless steel

Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Standard timer control element [1])** For manual and time-controlled switching of blinds and roller blinds. With dusk to dawn program including (Astro-program) Individual Astro adjustment and Astro blocking time. The controlled devices can be manually operated at any time. Simple setting via high-resolution display with background illumination. With preset switching times/date/time. Factory-set switching times can be individually adjusted. Automatic switchover from summer time to winter time (switch-off function). Switching times/programme are safely stored in the event of a mains power failure. Power reserve for time and date > 10 years. Simple toggling between manual/automatic/vacation modes. Programming possible only with control element attached and energized. 2 switching times per day can be user-defined for each day of the week. Astro switching times and switching times can be combined. For basic blind insert 6418 U. Temperature range (Device): 0 °C to 35 °C		
	6456-101	2CKA006410A0398	1/10

[1]) See respective cover plates 6435-xx.

Product	Article-No.	Order-No.	Pack/Qty
	**Comfort timer control element [1])** For manual and time-controlled switching of blinds, roller blinds, awnings, lighting and other electrical devices. With dusk to dawn program including (Astro-program) Individual Astro adjustment and Astro blocking time. The controlled devices can be manually operated at any time. Simple setting via high-resolution display with background illumination. With preset switching times/date/time. Factory-set switching times can be individually adjusted. Automatic switchover from summer time to winter time (switch-off function). Switching times/programme are safely stored in the event of a mains power failure. Power reserve for time and date > 10 years. Simple toggling between manual/automatic/vacation modes. Combined with Busch-Blind control II insert 6411 U/S-101, sun protection and twilight function. Freely adjustable temperature and brightness-dependent sun protection function. Freely adjustable twilight function. User-adjustable running times for blinds and air conditioning. Programming possible only with control element attached and energized. 6 switching times per day can be user-defined for each day of the week. Astro switching times and switching times can be combined. When combined with LED dimmer 6524 U, Busch-Universal master dimmer insert 6593 U or Busch-Memory touch-type controller 6550 U-101, the brightness of the lighting can be adjusted for each ON switching time. For Busch-Blind control II insert 6411 U-101, 6411 U/S-101. For Busch-Universal relay switch insert 6401 U-102. For Busch-Universal master dimmer insert 6593 U. For LED dimmer insert 6524 U and 6526 U.. For Busch-Memory touch-type controller 6550 U-101. Temperature range (Device): 0 °C to 35 °C		
	6455-101-500	2CKA006410A0399	1/10

[1]) See respective cover plates 6435-xx.

	**Time switch mechanism 16 A [1]) [2])** **DP, break contact for staircases, exterior lighting, fans, etc.** Running time: 15 min For time-programmed switching of electrical consumers. Schaltkontakte (2-polig) schließen, wenn die Laufzeit eingestellt und gestartet wird. Schaltkontakte (2-polig) öffnen, wenn die eingestellte Zeit abgelaufen ist. Rated voltage: 230 V~, +10 % / -10 % Rated current: 16 A, cos ϕ 0.25 Protection class (Device): IP 20		
	1070 U	2CKA001043A0025	1/10

[1]) For screw-fixing only

[2]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

pure stainless steel

Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Time switch mechanism 16 A [1] [2]** **DP, break contact for staircases, exterior lighting, fans, etc.** Running time: 120 min For time-programmed switching of electrical consumers. Schaltkontakte (2-polig) schließen, wenn die Laufzeit eingestellt und gestartet wird. Schaltkontakte (2-polig) öffnen, wenn die eingestellte Zeit abgelaufen ist. Rated voltage: 230 V~, +10 % / -10 % Rated current: 16 A, cos ϕ 0.25 Protection class (Device): IP 20		
	1071 U	2CKA001043A0124	1

[1] For screw-fixing only
[2] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Cover plate** **with rotary knob, with marking** For Busch-Timer insert 1070 U. Running time: 15 min Surface painted. Protection class (Device): IP 20		
stainless steel	**1770-866-103**	2CKA001753A0259	10

	**Cover plate** **with rotary knob, with marking** For Busch-Timer insert 1071 U. Running time: 120 min Surface painted. Protection class (Device): IP 20		
stainless steel	**1771-866-103**	2CKA001753A0302	10

	**Cover plate [1]** For comfort timer control element 6455-101-500. For standard timer control element 6456-101. For room thermostats 1098 U-101 and 1098 UF-101. For short-time timer 6465 U-101. For Busch-CO2 sensor 1091 U-500. For blind compact timer 6422 U. Surface painted.		
stainless steel	**6435-866**	2CKA006430A0344	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Blind insert, 1 gang, 2 way flex** 3 wire connection (neutral conductor required). For the control of roller shutters, blind and awning motors with mechanical or electronic limit switch shut-off. Group formation via extension input possible. Operation also via conventional push buttons (2020 US non-illuminated/2021/6 UK) possible. Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL.		
	64831 U-500	2CKA006400A0096	1

	Extension insert flex 3 wire connection (neutral conductor required). For the extension of the Busch-Comfort switch or presence detector installations. For group control of flex inserts via extension unit communication. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with all flex inserts.		
	64891 U-500	2CKA006800A3051	1

	**Control element, 1 gang flex** Tapping control element, 1gang. Compatible with all free@home flex inserts. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64711-500	2CKA006400A0099	1

	**Control element, 1 gang, flex wireless** Tapping control element, 1gang. For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62711-WL-500	2CKA006200A0281	1

	**Control element, 2 gang flex** Tapping control element, 2gang For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64721-500	2CKA006400A0101	1

pure stainless steel

Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Control element, 1 gang, flex wireless** Tapping control element, 2gang For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62721-WL-500	2CKA006200A0283	1
	**Weather Station** For recording and transmitting of brightness, temperature, wind speed and rain. Weather data can be linked with actuators to automatically control functions. Weather data can be visualized in the free@home web interface and the free@home app. Remote operation via the Bluetooth and smartphone/tablet app.		
	WS-1-WL.1	2CKA006200A0297	1
	**Standard Inputs** WS-1/A1.1 Mast adapter weather station		
	WS-1/A1.1	2CKA006200A0848	1
	**Rocker** **1gang, with “Blind” icon** As cover for ABB-free@home® sensor units and sensor/actuator units		
stainless steel	SRB-1-866	2CKA006220A0535	1
	**Rocker** **2gang left/right, “Blind” icon** As cover for ABB-free@home® sensor units and sensor/actuator units		
stainless steel	SRB-2-866	2CKA006220A0540	1
	**Rocker** **2gang left, with “Scene” icon** As cover for ABB-free@home® sensor units and sensor/actuator units		
stainless steel	SRS-2-L-866	2CKA006220A0541	1

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet** With screwless terminals. DP (2 P + E) Material stainless steel. Anti fingerprint. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
stainless steel	**20 EUC-866-500**	2CKA002011A6212	10/100
	**SCHUKO® socket outlet [1])** **shuttered** With screwless terminals. DP (2 P + E) Material stainless steel. Anti fingerprint. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
stainless steel	**20 EUCKS-866-500**	2CKA002013A5374	10/100

[1]) Increased shock protection .

	**SCHUKO® socket outlet [1]) [2])** **shuttered** With screw-type terminals. DP (2 P + E) Material stainless steel. Anti fingerprint. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
stainless steel	**23 EUCB-866**	2CKA002013A5478	10

[1]) Increased shock protection .
[2]) With screw-type terminal for rigid and flexible wires

pure stainless steel

Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® USB socket outlet, 2gang [1] [2] [3] [4] [5] shuttered** For connecting electric loads. DP (2 P + E) With screwless terminals. For supply and support of mobile devices via USB-cable. With two USB type A outputs. Simultaneous charging via USB connection and use of the SCHUKO® socket outlet. Support of loading protocol on the USB-A connection: Apple MFI with 2.4 A and BC 1.2 with 1.5 A. With electronic short-circuit protection. With electronic overload protection. Rated voltage: 230 V~, +10 % / --10 % Secondary: 5 V-, +5 % / -5 % Rated frequency: 50 Hz - 60 Hz Outputs: 2x USB charging interface Suitable for: SCHUKO® socket outlet Rated current: 16 A Suitable for: In case one output is used: Rated current: 2.4 A Output voltage: 5 V- Suitable for: In case two output are used: Rated current: 1.2 A Output voltage: 5 V- Rated power: 12 W Protection class (Device): IP 20, SELV Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 58 mm Mounting depth: 39.5 mm		
stainless steel	**20 EUCB2USB-866-500**	2CKA002011A6284	1/10

[1] Increased shock protection .
[2] Connecting terminals approved in accordance with VDE 0620-1 as connectors.
[3] No data transfer.
[4] When cleaning the device, use dust cover 2098 for the USB-A connection.
[5] Surface painted.

	**SCHUKO® socket outlet [1] with labelling field** DP (2 P + E) Size of labelling field: 60 x 9 mm. Material stainless steel. Anti fingerprint. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
stainless steel	**20 EUN-866**	2CKA002011A3851	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

	**SCHUKO® socket outlet [1] with marking "EDV"** With screwless terminals. DP (2 P + E) Shuttered. Material stainless steel. Anti fingerprint. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
stainless steel	**20 EUCKS/DV-866**	2CKA002013A5277	10

[1] Increased shock protection .

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Protector® SCHUKO® socket outlet [1] with overvoltage protection** DP (2 P + E) With integrated and external signalling contact. ISN = 5 kA. Device protection for technical sensitive equipment such as computer, entertainment electronics and building management systems. Effectively reduces overvoltage peaks occurring between the sub-distribution switch board and SCHUKO® socket outlet. Arrestor test class: classification Type 2 Material stainless steel. Anti fingerprint. Rated voltage: 250 V~ Secondary: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
stainless steel	**2310EUGL/VA-866-11**	2CKA002011A3853	1

[1] Connecting terminals approved in accordance with VDE 0620-1 as connectors.

	**SCHUKO® socket outlet [1] with LED control light** Shuttered. DP (2 P + E) With transparent lens. LED colour green. Material stainless steel. Anti fingerprint. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
stainless steel	**20 EUCBL-866**	2CKA002013A5289	10

[1] Resistant to aggressive media, e.g. ammonia, benzine, oils, greases, alcohol, cleansing agents, in normal concentrations.

	**SCHUKO® socket outlet with hinged lid** With screwless terminals. DP (2 P + E) Hinged lid notches when opened. Material stainless steel. Anti fingerprint. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
stainless steel	**20 EUK-866**	2CKA002018A1490	10

	**Busch-Object socket outlet [1] shuttered** With screwless terminals. DP (2 P + E) Incl. Cover plate with extract mechanism. Surface painted. Rated voltage: 250 V~ Rated current: 16 A		
stainless steel	**20 EUAB-866**	2CKA002013A5408	10

[1] Increased shock protection .

	**Shaver socket outlet** For installation into FM 2gang wall box 3030 and 3031. Rated voltage: 240 V, +10 % / -10 % Output voltage: 115 V, +10 % / -10 % Secondary: 240 V, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Rated power: 20 VA IEC 61558-2-5:97		
stainless steel	**2332 UJBS-866**	2CKA002130A0293	1

pure stainless steel
Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**Flush-mounting wall box, 2gang** For shaver socket outlet 2332 UJBS-8xx. Protection class (Device): IP 20 Dimensions: (L x W x D): 135 mm x 75 mm x 47 mm		
	3030	2CKA001741A0067	4
	**Flush-mounting cavity wall box, 2gang** For shaver socket outlet 2332 UJBS-8xx. Protection class (Device): IP 20 Dimensions: (L x W x D): 142 mm x 75 mm x 45 mm		
	3031	2CKA001741A0068	4
	**13 A Switched socket outlet** 1gang With screw-type terminals. SP switched Without claws. Only for mounting in VDE flush-mounted wallboxes CFB 122 and CFBM 122. Rated voltage: 250 V~ Rated current: 13 ABS 1363: part2		
stainless steel	**2190 EUC-866**	2CKA002190A0217	10
	**Chinese socket outlet, 10 A** 1gang With screw-type terminals. Without claws. According to Chinese standard: GB 2099.1 Rated voltage: 250 V~ Rated current: 10 A Rated current: 10 A delivery on request		
stainless steel	**2193 EUC/10-866-500**		
	**Chinese socket outlet, 16 A** 1gang With screw-type terminals. Without claws. According to Chinese standard: GB 2099.1 Rated voltage: 250 V~ Rated current: 16 A delivery on request		
stainless steel	**2193 EUC/16-866-500**		
	**Chinese and Euro American socket outlet, 10 A** 1gang With screw-type terminals. Without claws. According to Chinese standard: GB 2099.1 Rated voltage: 250 V~ Rated current: 10 A delivery on request		
stainless steel	**2195 EUC/10-866-500**		

Product	Article-No.	Order-No.	Pack/Qty
	**Euro American socket outlet with earth, 16 A** 1gang With screw-type terminals. Without claws. Rated voltage: 250 V~ Rated current: 16 A delivery on request		
stainless steel	**2196 EUC-866-500**	CBA019A082S6010	
	**International socket outlet 13A [1])** 1gang With screw-type terminals. Without claws. Rated voltage: 250 V~ Rated current: 13 A delivery on request		
stainless steel	**2197 EUC-866-500**	CBA019A071S6010	

[1]) Usage may be restricted in certain countries.

	**SCHUKO® socket outlet [1]) [2])** **shuttered** With screw-type terminals. DP (2 P + E) Material stainless steel. Anti fingerprint. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
stainless steel	**2300 EUCB-866**	2CKA002013A5452	10/100

[1]) Increased shock protection .
[2]) With screw-type terminals

	**SCHUKO® socket outlet steplight® [1]) [2])** **With night orientation light** with separate connection cables for switch contact. with LED, Shuttered. DP (2 P + E) Surface painted. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
stainless steel	**20 EUCBLI-866**	2CKA002013A5460	1

[1]) Connecting terminals approved in accordance with VDE 0620-1 as connectors.
[2]) Resistant to aggressive media, e.g. ammonia, benzine, oils, greases, alcohol, cleansing agents, in normal concentrations.

	**SCHUKO® socket outlet [1])** **with labelling field** DP (2 P + E) Size of labelling field: 60 x 9 mm. Material stainless steel. Anti fingerprint. Shuttered. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
stainless steel	**20 EUCNB-866**	2CKA002013A5432	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

pure stainless steel

Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**FI-SCHUKOMAT, SCHUKO® socket outlet (RCD) [1] [2] [3] with earth leakage circuit breaker** Shuttered. DP cut off (P,N) Without PE monitoring. With output terminals for connecting and protecting downsream SCHUKO® socket outlets. Rated fault current: 30 mA. With fixing claws. Rated frequency: 45-60 Hz. Surface painted. Rated voltage: 230 V~ Rated current: 16 A Protection class (Device): IP 21 Temperature range (Device): -25 °C to 40 °C		
stainless steel	**3120 EUCB-866**	2CKA003116A0669	1/10

[1] Connecting terminals approved in accordance with VDE 0620-1 as connectors.
[2] Protective measure according to VDE 0100; can be proven or checked using the Profitest 0100S testing device, for example.
[3] Increased shock protection .

	**Buschmat® FI - Insert [1] with earth leakage breaker with connecting conductor** Protection of downstream consumers. Rated actuating current: 30 mA. Release time: ≤ 30 ms. Short-circuit strength: 3000 A (with 25 A GL fuse). Current surge strength: 250 A (8/20) µs. DP cut off (P,N) Without claw fixation. Rated frequency: 45-60 Hz. Surface painted. Rated voltage: 230 V~ Rated current: 16 A Protection class (Device): IP 21 Temperature range (Device): -25 °C to 40 °C		
stainless steel	**3151 UC-866**	2CKA003117A0011	1/10

[1] Protective measure according to VDE 0100; can be proven or checked using the Profitest 0100S testing device, for example.

	**SCHUKO® socket outlet shuttered** With screwless terminals. DP (2 P + E) with hinged lid Material stainless steel. Anti fingerprint. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
stainless steel	**20 EUKB-866**	2CKA002018A1521	10/100

	**Socket outlet [1] [2] with earthing pin** With screwless terminals. Shuttered. Suitable for the countries like Poland, Czech Republic. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A		
stainless steel	**20 MUCKS-866-500**	2CKA002017A0900	10

[1] Socket outlet with integrated child protection. Replaces the usual term"...with child protection".
[2] Order-bound manufacturing

Product	Article-No.	Order-No.	Pack/Qty
	**USB socket outlet earthing pin, 2gang [1] [2] [3] [4] shuttered** For connecting electric loads. DP (2 P + E) With screwless terminals. For supply and support of mobile devices via USB-cable. With two USB type A outputs. Simultaneous charging via USB connection and use of the SCHUKO® socket outlet. Support of loading protocol on the USB-A connection: Apple MFI with 2.4 A and BC 1.2 with 1.5 A. With electronic short-circuit protection. With electronic overload protection. Suitable for the countries: Belgium, Poland, Czech Republic. Rated voltage: 230 V~, +10 % / --10 % Secondary: 5 V-, +5 % / -5 % Rated frequency: 50 Hz - 60 Hz Outputs: 2x USB charging interface Suitable for: Earth pin socket Rated current: 16 A Suitable for: In case one output is used: Rated current: 2.4 A Suitable for: In case two output are used: Rated current: 1.2 A Output voltage: 5 V- Rated power: 12 W Protection class (Device): IP 20, SELV Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 58 mm Mounting depth: 39.5 mm		
stainless steel	**20 MUCB2USB-866-500**	2CKA002017A1897	1/10

[1] Socket outlet with integrated child protection. Replaces the usual term"...with child protection".
[2] No data transfer.
[3] When cleaning the device, use dust cover 2098 for the USB-A connection.
[4] Surface painted.

pure stainless steel

Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**WLAN access point, flush-mounted [1] [2]** **power supply from mains power** Operation as WLAN access point for the connection of WLAN terminal devices to the LAN. Operation as WLAN repeater for extending the transmission range of a WLAN. Operation as WLAN adapter for integrating Ethernet terminal devices into a WLAN. Supports WLAN standards IEEE 802.11b/g/n with 2.4 GHz; integrated WLAN antenna. Backward connection of an Ethernet cable via screw terminals (10/100 Mbit/s). Front-side Ethernet connection via a RJ45 socket (10/100 Mbit/s). The three connections (WLAN, Ethernet/screw terminals and Ethernet/RJ45)can be used in parallel via the integrated switch. Power supply via 2-pole connecting terminal. Nominal voltage: 100 - 240 V~ For mounting in commercially available deep flush-mounted and hollow-wall boxes. Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20 Dimensions: (L x W x D): 80 mm		
	8186/31-101-500	2CKA008100A0359	1

[1] Suitable for cover plate 1803-xxx.
[2] Not to be mounted in SM box 1701-xxx, 1702-xxx, 1703-xxx.

	**Reset magnet** For resetting WLAN access point UP 8186/31-101 and WLAN access point PoE UP 8186/41 to the factory settings. Protection class (Device): IP 20		
	8186/11-500	2CKA008100A0361	1

	**Universal data connection unit, cat. 3 [1]** **1gang** With down-leading outlet. For 8-pole plug, RJ 11/12, RJ 45, ISDN capability, Cat. 3. Design according to IEC 60 603-7-2:2007. Screw contacts With claw. Protection class (Device): IP 20		
	0213-500	2CKA000230A1549	10/100

[1] Suitable for cover plate 1803-xxx.

	**Universal data connection box with down-leading outlet [1]** **2gang internally parallel connected** With down-leading outlet. For 8-pole plug, RJ 11/12, RJ 45, ISDN capability, Cat. 3. Design according to IEC 60 603-7-2:2007. Screw contacts With claw. Protection class (Device): IP 20		
	0214	2CKA000230A0235	10/100
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		

[1] Suitable for cover plate 1803-02-xxx.

	**Universal data connection box with down-leading outlet [1]** **2 x outlets, 8/8-pole** With down-leading outlet. For 8-pole plug, RJ 11/12, RJ 45, ISDN capability, Cat. 3. Design according to IEC 60 603-7-2:2007. Screw contacts With claw. Protection class (Device): IP 20		
	0215	2CKA000230A0243	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		

[1] Suitable for cover plate 1803-02-xxx.

	**Data-connection box, RJ 45, cat. 6a iso, shielded [1]** **1gang** With down-leading outlet and LSA self-cutting clamps. RJ-45 terminals for networks according to Cat 6A, Class EA (10 Gbits/s / 500MHz). Equates to cat. 6a, Class EA according to ISO/IEC 11801:2011-06. Terminal marking A and B according to TIA/EIA-568-B.2. Typ according to EN 60 603-7-51:2011-01. Shielding according to DIN EN 55022, Class B. Up to 500 MHz on all pairs of wires. Suitable for 10-Gigabit Ethernet. Suitable for PoE+ according to IEEE 802.3at, >- 1.000 contact durability. Flex cable entries from all sides without buckles. Earthing of housing via 6,3 mm blade terminal at the back possible. Re-embedded proofed. Suitable for Mix-and-Match operation. Suitable for RJ 11, RJ 12 und RJ 45. For data cables with a diameter of 6 -10 mm. For wires of AWG 24-22. For trunk systems, flush-mounted wall boxes and underfloor systems. Without claws. Mounting depth: 31 mm. Protection class (Device): IP 20		
	0218/11-101	2CKA000230A0409	1/10

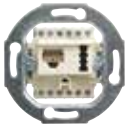
[1] Suitable for cover plate 1803-xxx.

pure stainless steel

Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**Data-connection box, RJ 45, cat. 6a iso, shielded [1]) 2 x outlets, 8/8-pole** With down-leading outlet and LSA self-cutting clamps. RJ-45 terminals for networks according to Cat 6A, Class EA (10 Gbits/s / 500MHz). Equates to cat. 6a, Class EA according to ISO/IEC 11801:2011-06. Terminal marking A and B according to TIA/EIA-568-B.2. Typ according to EN 60 603-7-51:2011-01. Shielding according to DIN EN 55022, Class B. Up to 500 MHz on all pairs of wires. Suitable for 10-Gigabit Ethernet. Suitable for PoE+ according to IEEE 802.3at, >- 1.000 contact durability. Flex cable entries from all sides without buckles. Earthing of housing via 6,3 mm blade terminal at the back possible. Re-embedded proofed. Suitable for Mix-and-Match operation. Suitable for RJ 11, RJ 12 und RJ 45. For data cables with a diameter of 6 -10 mm. For trunk systems, flush-mounted wall boxes and underfloor systems. For wires of AWG 24-22. Without claws. Mounting depth: 31 mm. Protection class (Device): IP 20		
	0218/12-101	2CKA000230A0411	1/10

[1]) Suitable for cover plate 1803-02-xxx.

Product	Article-No.	Order-No.	Pack/Qty
	**Universal data connection box 8(6)/ telephone unit 6F+N - connection box [1]) 2 x 6-pole** with straight outlet, with screw contacts, Universal data-connection boxes: RJ 11/12, ISDN capable Cat. 3 in acc. with IEC 603-7/German Standard DIN EN 60603-7, Telecommunication outlet (telephone unit): for 1 telephone, 1 auxiliary device or 1 data transmission unit, With claw. Protection class (Device): IP 20		
white	**UAE 8(6)TAE 6 F+N**	2CKA000230A0381	10/100

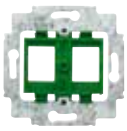
[1]) Suitable for cover plate 2539-xxx, 1766-xxx and 1746-2xx-FN.

Product	Article-No.	Order-No.	Pack/Qty
	**Satellite co-axial outlets 2 connectors/dead-end feeder** Broadband technology 5-2.400 MHz For DVB-T, satellite and broad-band cable systems. For analogue and digital transmission. With claw. Minimal installation depth, class A. Protection class (Device): IP 20		
	0230-101	2CKA000230A0250	10/100

Product	Article-No.	Order-No.	Pack/Qty
	**Antenna socket insert Radio/TV 2 connectors/loop through type** Broadband technology 5-2.400 MHz For DVB-T, satellite and broad-band cable systems. For analogue and digital transmission. With claw. Minimal installation depth, class A. Protection class (Device): IP 20		
	0231-101	2CKA000230A0268	10/100

Product	Article-No.	Order-No.	Pack/Qty
	**Satellite co-axial outlets Radio/TV/SAT 3gang dead-end feeder** Broadband technology 47-2.150 MHz. SAT connection designed as screwable F-male plug. with remote feed via F-bush For DVB-T and broadband-cable-systems. For analogue and digital transmission. With claw. Minimal installation depth, class A. Protection class (Device): IP 20		
	0232-101-500	2CKA000230A0463	10/100

Product	Article-No.	Order-No.	Pack/Qty
	**Terminating resistor 75 Ohm** Protection class (Device): IP 20		
	0239	2CKA000230A0201	10/100

Product	Article-No.	Order-No.	Pack/Qty
	**Mounting plate [1]) [2]) with green insert** For 2 modular jack inserts. For systems: CommScope (AVAYA / AT&T / Lucent Technologies), GigaSPEED, PowerSUM, 360 GS 10E bis MGS 600-BK, M1 BH-xx, MPS 100E-xx. With R&M adapter R310694 suitable for R&M connection modules R305111, R305112, R305113 and R305114. Pitch dimensions: (WxH) approx. 16.9 x 17.9 mm. Without claws. Protection class (Device): IP 20		
	1810-500	2CKA001753A9974	10/100

[1]) Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2]) For further information, please refer on the Internet.

Product	Article-No.	Order-No.	Pack/Qty
	**Mounting plate [1]) [2]) with red insert** For 2 modular jack inserts. Suitable for Art. Nos. 0210, 0211 and 0219-101. For systems: AMP / tyco Electronics, BTR, EFB, Krone, Panduit, Quante, Radiall, Setec, Dr.-Ing. Sieger, Telena, Thomas & Betts For Telegärtner AMJ/UMJ connection modules/ couplings. For 2 fiber optic modules of the following types: 3M-Volition, Krone, mvk. Pitch dimensions: (WxH) approx. 14.8 x 19.4 mm. Without claws. Protection class (Device): IP 20		
	1812-500	2CKA001753A9972	10/100

[1]) Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2]) For further information, please refer on the Internet.

pure stainless steel

Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**Mounting plate [1] [2]** **with black insert** For MTRJ or 2 modular jack inserts. For systems: Ackermann, AMP / tyco Electronics (Slim Line (SL) -SM 2gang/switches: 110Connect Jacks, Toolless Jacks / Standard 110Connect Jacks), Brand-Rex, CombiNet, EFB Electronic, Telena. For 2 fiber optic modules of the following types: AMP / tyco Electronics MTRJ. Pitch dimensions: (WxH) approx. 14.8 x 20.4 mm. Without claws. Protection class (Device): IP 20		
	1814-500	2CKA001753A9973	10/100
	**Mounting plate [1] [2]** **with blue insert** For 2 modular jack inserts. For system: ITT Cannon RJ45 Cat. 5 type 808 RJ45 Mark III. Pitch dimensions: (WxH) approx. 16.0 x 11.0 mm. Without claws. Protection class (Device): IP 20		
	1816	2CKA001710A3100	10/100
	**Mounting plate [1] [2]** **with orange base** For 2 modular jack inserts. For system: LexCom 150 and LexCom 250. Pitch dimensions: (WxH) approx. 15.4 x 15.4 mm. Without claws. Protection class (Device): IP 20		
	1819	2CKA001753A8056	10/100
	**Mounting plate [1] [2]** **with grey base** For 2 modular jack inserts. For system: Panduit MiniCom (Cu. z.B. TX6 10 Gig Shielded Jack modules and fiber optic modules. Pitch dimensions: (WxH) approx. 15.9 x 18.7 mm. Without claws. Protection class (Device): IP 20		
	1820	2CKA001753A8057	10/100
	**Flush-mounted assembly adapter** For the accommodation of one or two universal modules 0219. For flush-mounted installation. Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. Protection class (Device): IP 20		
	0219/12	2CKA000230A0395	1/10

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

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[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

Product	Article-No.	Order-No.	Pack/Qty
	**Channel assembly adapter** For the accommodation of one or two universal modules 0219. For channel and under-floor installation. Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. Protection class (Device): IP 20		
	0219/13	2CKA000230A0396	1/10
	**Universal module, RJ 45, cat. 6a iso, shielded [1]** **1gang** For installation in installation adapter 0219/12 or 0219/13. Also suited for mounting into cover plate 2561-xxx, 2564-02-xxx and bases 1812, 1866 EB, and 1867 EB. RJ-45 terminals for networks according to Cat 6A, Class EA (10 Gbits/s / 500MHz). Equates to cat. 6a, Class EA according to ISO/IEC 11801:2011-06. Cat. 6A according to ISO/IEC 11801: 2011-06. Terminal marking A and B according to TIA/EIA-568-B.2. Typ according to EN 60 603-7-51:2011-01. Shielding according to DIN EN 55022, Class B. Suitable for PoE+ according to IEEE 802.3at, >- 1.000 contact durability. Bend-radius optimised cable feed (30°). Earthing of housing via 6,3 mm blade terminal at the back possible. Re-embedded proofed. Suitable for Mix-and-Match operation. For 8-pole plug RJ 45 only. Housing made from diecast zinc. With integrated dust-protection cap (can be removed if necessary). With insulation displacement connection For data cables with a diameter of 6 -10 mm. For wires of AWG 24-22. For trunk systems, flush-mounted wall boxes and underfloor systems. Protection class (Device): IP 20		
	0219-101	2CKA000230A0413	1/10

[1] With assembly adapters appropriate for telephone unit cover plates 2539-21x and 1766-xxx.

	**Modular-Jack insert** **6-pole Cat. 3 (AMP-No. 216000-2)** For cover plate 2561-xxx, 2561-02-xxx and insert 1812, 1866 built-in, 1867 built-in. For conductor cross-sections of 0.12 mm² (AWG 26) to 0.35 mm² (AWG 22). Protection class (Device): IP 20		
	0210	2CKA000225A0078	10
	**Modular-Jack insert** **8-pole Cat. 3 (AMP-No. 216005-4)** For cover plate 2561-xxx, 2561-02-xxx and insert 1812, 1866 built-in, 1867 built-in. For conductor cross-sections of 0.12 mm² (AWG 26) to 0.35 mm² (AWG 22). Protection class (Device): IP 20		
	0211	2CKA000225A0086	10

pure stainless steel
Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**Built-in jack** For potential balancing jack cover plate and installation in cover plates. For devices of 19 mm diameter. Protection class (Device): IP 20		
	0471-0-0037	2CKA000471A0037	10
	**Potential balancing plug** Suitable for plug 2095 UC-212 and built-in jack 0471-0-0037 acc. to German Standard DIN 42801. For potential balancing jack cover plate (connection up to 6 mm² crimped or soldered) Protection class (Device): IP 20		
	0299-0-0032	2CKA000299A0032	10
	**Blank plate** **with metal mounting plate** Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**1742-866**	2CKA001710A3751	10
	**Cover plate [1])** As cover for flex outlet, for cords up to 10.3 mm diameter. With strain relief (without terminal block). Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**1749-866**	2CKA001710A3752	10

[1]) Cover plate can also be used individually as cover for telephone connector boxes (VDo).

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1])** As cover for universal data connection boxes. Art.-No. 0213 (Cat 3/ISDN), 0216-101, 0218/11-101 (Cat 5e/6 data technology) and comparable types of the company Rutenbeck. For WLAN access points 8186/31 and 8186/41. Brand-Rex (WAEGV 8 EKR/EK). BTR (universal data connecting unit design and IAE design). Telegärtner (AMJ 45, UMJ 45). With down-leading outlet. With labelling field. Size of labelling field: 60 x 9 mm. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**1803-866**	2CKA001710A3763	10/100

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1])** **2gang** As cover for universal data connection boxes. Art. No. 0214, 0215 (Cat 3), 0220/12-507, 0221/12-507, 0218, 0217 (Cat 5e/6 data technology) and comparable types of the company Rutenbeck. Brand-Rex (WAEGV 8/8 EKR/EK). AMP (NETCONNECT 5E). BTR (E-DAT C6, E-DAT design, Universal data connecting unit design and IAE design). cti (cti-wire 2.8 Cat.6). Telegärtner (AMJ 45, UMJ 45). With down-leading outlet. With labelling field. Size of labelling field: 60 x 9 mm. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**1803-02-866**	2CKA001710A3764	10/100

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For telephone connection unit. For USB, VGA, HDMI inserts and communication adapter. USB power adapter insert 6472 U-500-101. USB power adapter insert 6475 U-101-500. For loudspeaker connection box. Suitable for part number 0248/0x-101. For data modules. Suitable for Art. No. 0219/12 and 0219/13. For modular outlets with 90° RJ45 outlet from Telegärtner (type MJ and WE). Protection class (Device): IP 20		
stainless steel	**1766-866**	2CKA001710A3765	10/100
	**Cover plate** As cover for telephone connector boxes (VDo). Can be knocked out for single or double connection. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**1745-866**	2CKA001710A3766	10
	**Cover plate [1])** **socket outlet** Telephone socket (TDO) Surface painted.		
stainless steel	**1762-866-506**	2CKA001710A4107	10/100

[1]) Suitable insert: TDO 3x 10 OUP (for 1 telephone and 2 auxiliary devices).

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1]) [2])** **as cover for standard Radio/TV/SAT socket outlets** With 2 connectors Acc. to German Standard DIN 45330. Radio/TV/SAT. With M3 fixing screw. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**1743-866**	2CKA001724A4271	10/100

[1]) Third opening can be knocked out.
[2]) See inserts for satellite coaxial socket outlets.

pure stainless steel

Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1])** As cover for 4gang Satellite co-axial socket outlet EVU 02 F, GEVU 15 S from Hirschmann. Surface painted. Protection class (Device): IP 20		
stainless steel	**1743-04-866**	2CKA001724A4378	10

[1]) See adapter ring 1746/10x.

	**Cover plate [1])** As cover for 4gang Satellite co-axial socket outlet SAT400/EAS/DC, EAS 405, 413 DAS from Ankaro. Surface painted. Protection class (Device): IP 20		
stainless steel	**1743/10-04-866**	2CKA001724A4369	10

[1]) See adapter ring 1746/10x.

	**Cover plate [1])** **with labelling field** For modular jack with slide entrance. To fit only Art. No. 1810, 1812, 1814, 1816, 1818, 1819 and 1820. Size of labelling field: 60 x 9 mm. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**1800-866**	2CKA001710A3767	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

	**Cover plate [1])** For 1 modular jack. Suitable for Art. Nos. 0210, 0211 and 0219-101. Without claws. Surface painted. Protection class (Device): IP 20		
stainless steel	**2561-866**	2CKA001753A0404	10

[1]) Surface painted.

	**Cover plate** **with metal mounting plate** For 2 modular jack inserts. Suitable for Art. No. 0210 and 0211. Without claws. Surface painted. Protection class (Device): IP 20		
stainless steel	**2561-02-866**	2CKA001753A0395	10

	**Cover plate** For telecommunication inserts with cover plate 50 x 50 mm. With cover plate 50 x 50 mm, AMP, Brand-Rex, Rutenbeck, BTR, Telegärtner, etc. Surface painted. Protection class (Device): IP 20		
stainless steel	**1746/10-866**	2CKA001710A3768	10

	**Intermediate ring** For attaching cover plates from the Busch-balance® SI range. Surface painted. Protection class (Device): IP 20		
stainless steel	**1747 BSI-866**	2CKA001710A4097	10

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** With hinged lid. For telecommunication inserts with cover plate 50 x 50 mm. With cover plate 50 x 50 mm, AMP, Brand-Rex, Rutenbeck, BTR, Telegärtner, etc. Surface painted. Protection class (Device): IP 20		
stainless steel	**1746-866**	2CKA001710A3769	10

	**Intermediate ring with hinged lid [1]) [2])** For accommodating cover plates from the Busch-Duro 2000® SI program and Reflex SI, e.g. socket outlets, equipotential, antenna, and ISDN socket outlets, etc. Delivery without cover plate. With sealing ring. IP 44 only in conjunction with cover frames All Weather 44. Surface painted. Protection class (Device): IP 44		
stainless steel	**2518-WD-866**	2CKA001719A0221	10

[1]) Combinable with cover plate 1746-...-101. 1743-04-..., 1743/10-04-... or data inserts with covers 50 x 50 mm, e.g. from Ackermann, Rutenbeck, BTR, Telegärtner.
[2]) Combinable only with covers for flush-mounted inserts

	**XLR centre plate** As cover for Neutrik plug connectors, type D series. Without claws. Surface painted. Protection class (Device): IP 20		
stainless steel	**2553-866**	2CKA001724A4403	10

	**Cover plate** **with metal mounting plate** For covering universal data communication connectors and circular connectors with screwed plug M 16x0.75 (installable in insert) in accordance with DIN 41524, 41529, 45322, 45327, 45328 and 45329. Knock-out openings 6, 8, 18 mm. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**1748-866**	2CKA001710A3760	10

	**Cover plate** **with metal mounting plate** As cover for BNC and TNC sockets. Knock-out openings 6, 8, 18 mm. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**1750-866**	2CKA001710A3770	10

	**Equipotential socket outlet** **2gang** Without claws. For connecting wires up to 1 x 6 mm² and 4 x 2.5 mm². IEC 60601-1:2005; DIN EN 60601 (VDE 0750-1): July 2007 Connection bolts German Standard DIN 42801. Surface painted. Protection class (Device): IP 20		
stainless steel	**2095 UC-866**	2CKA002495A0090	10

pure stainless steel

Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **with metal mounting plate** With screw-type terminal. Fixed with central locknut. As cover for pilot devices with a diameter of 22.5 mm Without claws. Surface painted. Protection class (Device): IP 20		
stainless steel	**2533-866**	2CKA001724A4270	10
	**Cover plate** [1] **with metal mounting plate** for communication devices. With labelling field 60.2 x 10.2 mm. Without claws. Surface painted. Protection class (Device): IP 20		
stainless steel	**1758-866**	2CKA001724A4272	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Radio DAB+** [1] DAB+ and RDS stereo radio alarm clock for flush-mounted installation. With high-resolution colour display for showing additional information. Reception frequency: 87.50 MHz - 108.00 MHz. Receive frequency (DAB+): 174 MHz – 240 MHz. With external AUX input/output, reversible. For mono/stereo operation. 8 radio stations storable. With time and date display. With individual alarm and snooze function. With automatic switch-off function (automatic sleep mode). With extension input to remote-controlled ON/OFF switches. With integrated antenna. With additional connection for external antenna. Permitted speaker impedance: 4 - 8 Ohm Can be installed as 1gang and in multiple combinations. Control element: 4-button operation via floating rocker Display elements: ICU graphic display with 280 DPI. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Control/Signal outputs: 2, Loudspeaker output, impedance 4 Ohm Rated power: 2 W (RMS) Protection class (Device): IP 20 Temperature range (Device): 5 °C to 40 °C Dimensions: (L x W x D): 71 mm x 71 mm x 47 mm Mounting depth: 32 mm		
	8215 U-101-500	2CKA008200A0276	1/10

[1] No claw. Screw-fixing via keyholes.

pure stainless steel

Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Radio BTconnect DAB+ [1])** **With Bluetooth interface for music replay.** DAB+ and RDS stereo radio alarm clock for flush-mounted installation. With high-resolution colour display for showing additional information. With Bluetooth interface for music replay of mobile devices. Connection of external Bluetooth loudspeakers possible. Reception frequency: 87.50 MHz - 108.00 MHz. Receive frequency (DAB+): 174 MHz – 240 MHz. With external AUX input/output, reversible. For mono/stereo operation. 8 radio stations storable. With time and date display. With individual alarm and snooze function. With automatic switch-off function (automatic sleep mode). With extension input to remote-controlled ON/OFF switches. With integrated antenna. With additional connection for external antenna. Permitted speaker impedance: 4 - 8 Ohm Can be installed as 1gang and in multiple combinations. Bluetooth specification: 4.2. Bluetooth profiles supported: A2DP Number of stored Bluetooth connections: max. 8 Control element: 4-button operation via floating rocker Display elements: ICU graphic display with 280 DPI. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Rated power: 2 W (RMS) Protection class (Device): IP 20 Temperature range (Device): 5 °C to 40 °C Dimensions: (L x W x D): 71 mm x 71 mm x 47 mm Mounting depth: 32 mm Bluetooth		
	8217 U-101-500	2CKA008200A0279	1/10

[1]) No claw. Screw-fixing via keyholes.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Radio iNet [1]) [2]) [3]) [4])** WLAN Internet radio alarm clock for flush-mounted installation. For the reception of national and international radio stations via Internet. Radio station search possible via various genres. With high resolution graphic display and background illumination. With external AUX input. Integrated web-server for configuration and control. Remote operation with smartphone via browser surface. UPnP replay function. It is controlled via smartphone. For mono/stereo operation. 8 radio stations storable. With time and date display. With alarm function. With short-time timer. With automatic switch-off function (automatic sleep mode). With extension input to remote-controlled ON/OFF switches. With integrated WLAN antenna. WLAN Standards: IEEE 802.11b / IEEE 802.11g and IEEE 802.11n (2,4 GHz). WLAN safety: WPA / WPA2. Permitted speaker impedance: 4 - 8 Ohm Can be installed as 1gang and in multiple combinations. Rated voltage: 110 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20 Temperature range (Device): 5 °C to 40 °C Dimensions: (L x W x D): 71 mm x 71 mm x 49 mm Mounting depth: 33 mm APP		
	8216 U-500	2CKA008200A0153	1/10

[1]) No claw. Screw-fixing via keyholes.
[2]) Matching loudspeaker insert 8223 U.
[3]) Can also be combined with built-in loudspeaker (8222 EB) and moist atmosphere loudspeaker (8224 EB).
[4]) To be mounted only in connection with commercially available flush-mounted installation boxes according to DIN 49073 > 40 mm depth gauge or Busch-Jaeger art. no. 3040, 3050 or 3060.

	**Loudspeaker insert [1])** **5 cm (2")** With flat plug connector. With broadband characteristics. Rated output: 2 W (RMS) Incl. speaker connection cable. Frequency response: 200 - 20,000 Hz Impedance: 4 Ohm Protection class (Device): IP 20, SELV Mounting depth: 32 mm		
	8223 U-500	2CKA008200A0183	1/10

[1]) No claw. Screw-fixing via keyholes.

pure stainless steel

Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-powerDock Insert [1] [2] [3] [4]** For charging and supplying mobile terminal devices. With quick charging function for devices compatible with quick-chargeTM. Makes possible fast charging of the mobile terminal device. Rated voltage: 100 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Suitable for: Apple terminal device Rated current: 2.1 A Output voltage: 5 V- Suitable for: Terminal device with USB-C connection Rated current: 2.1 A Output voltage: 5 V- Suitable for: Terminal device with quick-charge support and USB-C connection and quick-charge TM function. Rated current: 2 A Output voltage: 9 V- Protection class (Device): IP 20, SELV Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 32 mm Mounting depth: 32 mm		
	6473 U-500	2CKA006400A0039	1/10

[1] No claw. Screw-fixing via keyholes.
[2] The USB-C connection of the Busch-powerDock uses the quick charging function according to Qualcomm® Quick chargeTM 2.0 standard.
[3] In rare cases the manufacturers of USB-C terminal devices support the quick-charging function independent of this standard only in case of charging devices that are the same as those of other manufacturers.
[4] In these cases the quick-charging function of the terminal device is not enabled.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-powerDock Charging cradle with Apple lightning connection [1]** For Busch-powerDock insert 6473 U. For attaching mobile terminal devices with lightning connection. For iPhone XS Max, iPhone XS, iPhone XR, iPhone X. For iPhone 8 Plus, iPhone 8. For iPhone 7 Plus, iPhone 7. For iPhone SE. For iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6. For iPhone 5s, iPhone 5c, iPhone 5. For iPod touch (6th generation), iPod touch (5th generation), iPod nano (7th generation). Suitable for use with protective covers certified by Apple. Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 54 mm x 54 mm x 36 mm		
	6473-500	2CKA006400A0081	1/10

[1] Not released for use with the iPad.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-powerDock Charging cradle with USB-C connection** For Busch-powerDock insert 6473 U. For attaching mobile terminal devices with USB-C connection. Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 54 mm x 54 mm x 36 mm		
	6473/11-500	2CKA006400A0083	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**USB power adapter insert, flush-mounted [1] [2] [3]** **With USB-A & USB-C interface** For supply and support of mobile devices via USB-cable. With USB type A and USB type C female connector. To support two devices at the same time. Supports automatic negotiating of optimum charging parameters for the shortest charging times. Support of loading protocol on the USB-A connection: Apple MFI with 2.4 A and BC 1.2 with 1.5 A. Support of the additional quick-charge protocols: USB-PD and quick-charge 3.0 & 4.0. With electronic short-circuit protection. With electronic overload protection. Rated voltage: 230 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 2x USB charging interface Suitable for: Only USB-A bus occupied: Rated current: 3000 mA Output voltage: 5 V- Suitable for: Only USB-C bus occupied: Rated power: 18 W Suitable for: USB-A and USB-C bus occupied. Total: Rated current: 3250 mA Output voltage: 5 V- Protection class (Device): IP 20, SELV Temperature range (Device): 0 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 43 mm Mounting depth: 32 mm		
	6475 U-500	2CKA006400A0399	1

[1] No claw. Screw-fixing via keyholes.
[2] No data transfer.
[3] When cleaning the device, use dust cover 2098 for the USB-A connection.

pure stainless steel

Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty
	**HDMI connection unit [1])** **with screw-type terminals and strain relief** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To link high-definition digital audio and video data from e.g. SAT-receiver, DVD-/Blue-Ray-player to plasma-type, LCD- or-LED-TVs/screens. HDMI-type A, 3D-compatible. Fully HD ready (1920 x 1080 pixel). For 20-wire HDMI-cables via srew-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. For easy mounting and adhering to the admissible bending radii, the Kaiser >Electronic socket<, article number 1068-02 or 9062-74, is recommended. Without cover plate. Without claws. Protection class (Device): IP 20 Mounting depth: 34 mm		
white	**0261/31-500**	2CKA000230A0430	1
grey	**0261/33-500**	2CKA000230A0432	1
alpine white	**0261/32-500**	2CKA000230A0431	1

[1]) Please follow the recommendations of the cable and device producers for the max. HDMI cable lengths.

	**VGA connection unit [1])** **with screw-type terminals and strain relief** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To link analogue video data between PCs and laptops to monitors or digital projectors etc. VGA-type: D-type, 15-pole. Fully HD ready (1920 x 1080 pixel). For 15-wire VGA-cables via srew-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. For easy mounting and adhering to the admissible bending radii, the Kaiser >Electronic socket<, article number 1068-02 or 9062-74, is recommended. Without cover plate. Without claws. Protection class (Device): IP 20 Mounting depth: 34 mm		
white	**0261/21-500**	2CKA000230A0424	1
grey	**0261/23-500**	2CKA000230A0426	1
alpine white	**0261/22-500**	2CKA000230A0425	1

[1]) Please follow the recommendations of the cable and device producers for the max. VGA cable lengths.

Product	Article-No.	Order-No.	Pack/Qty
	**USB connection unit [1])** **with screw-type terminals and strain relief** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To link mobile devices like e.g. printer, scanner, USB-sticks or digital cameras etc. USB-type A, USB 2.0 compatible. For 5-wire USB- cables via srew-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. For easy mounting and adhering to the admissible bending radii, the Kaiser >Electronic socket<, article number 1068-02 or 9062-74, is recommended. Without cover plate. Without claws. Protection class (Device): IP 20 Mounting depth: 34 mm		
white	**0261/11-500**	2CKA000230A0418	1
grey	**0261/13-500**	2CKA000230A0420	1
alpine white	**0261/12-500**	2CKA000230A0419	1

[1]) Please follow the recommendations of the cable and device producers for the max. USB cable lengths.

	**Communication adapter** **for BNC-F Duct-jacks** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To support 1 or 2 jacks. For trunk systems, flush-mounted wall boxes and underfloor systems. Without cover plate. Without claws. Protection class (Device): IP 20		
white	**0262/11-500**	2CKA000230A0436	1
grey	**0262/13-500**	2CKA000230A0438	1
alpine white	**0262/12-500**	2CKA000230A0437	1

	**F duct-jack** **for communication adapter** For connection of antenna cables e.g.. for TVs with integrated TV-tuner and satellite receiver. With screw-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. Protection class (Device): IP 20		
metal clad	**0262-500**	2CKA000230A0440	1

	**Communication adapter** **for Cinch-jacks** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To support 1 or 2 jacks. For trunk systems, flush-mounted wall boxes and underfloor systems. Without cover plate. Without claws. Protection class (Device): IP 20		
white	**0263/11-500**	2CKA000230A0444	1
grey	**0263/13-500**	2CKA000230A0446	1
alpine white	**0263/12-500**	2CKA000230A0445	1

pure stainless steel

Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty
	**Cinch-jacks** **for communication adapter** To link analogue audio devices like audio-receiver, amplifier and HiFi-sets. Audio-band 20Hz - 20kHz. Marked white: audio , channel left. With soldering tag. Protection class (Device): IP 20		
alpine white	**0263/04-500**	2CKA000230A0451	1
	**Cinch-jacks** **for communication adapter** To link analogue audio devices like audio-receiver, amplifier and HiFi-sets. Audio-band 20Hz - 20kHz. Marked black: audio , channel left. With soldering tag. Protection class (Device): IP 20		
black	**0263/05-500**	2CKA000230A0452	1
	**Cinch-jacks** **for communication adapter** To link analogue audio devices like audio-receiver, amplifier and HiFi-sets. Audio-band 20Hz - 20kHz. Marked red: audio , channel left. With soldering tag. Protection class (Device): IP 20		
Red	**0263/06-500**	2CKA000230A0453	1
	**Cinch-jacks** **for communication adapter** For connecting analogue video devices, such as DVD players, hard disc recorders, video recorders or receivers. Marked yellow: audio , channel left. With soldering tag. Protection class (Device): IP 20		
yellow	**0263/07-500**	2CKA000230A0454	1
	**Communication adapter** **for Mini-jacks 3,5mm.** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To support 1 or 2 jacks. For trunk systems, flush-mounted wall boxes and underfloor systems. Without cover plate. Without claws. Protection class (Device): IP 20		
white	**0264/11-500**	2CKA000230A0458	1
grey	**0264/13-500**	2CKA000230A0460	1
alpine white	**0264/12-500**	2CKA000230A0459	1
	**Mini-jack 3,5 mm** **for communication adapter** For the connection of mobile terminal devices such as MP3 player (stereo), mobile telephone and smartphones. Audio-band 20Hz - 20kHz. With soldering tag. Protection class (Device): IP 20		
chrome gloss	**0264-500**	2CKA000230A0462	1

Product	Article-No.	Order-No.	Pack/Qty
	**Stereo loudspeaker connection box [1])** With screwless terminals (with screw-type terminals on the back). With 4 terminals. Cable cross-section max. 10 mm². Polarity is indicated by color. With claw. Protection class (Device): IP 20		
white	**0248/02-101**	2CKA000230A0402	10/100

[1]) Suitable for cover telephone unit 1766-xxx and 2539-21x.

	**Stereo loudspeaker connection box [1])** With screwless terminals (with screw-type terminals on the back). With 4 terminals. Cable cross-section max. 10 mm². Polarity is indicated by color. With claw. Protection class (Device): IP 20		

[1]) Suitable for cover telephone unit 1766-xxx and 2539-21x.

	**Stereo loudspeaker connection box [1])** With screwless terminals (with screw-type terminals on the back). With 4 terminals. Cable cross-section max. 10 mm². Polarity is indicated by color. With claw. Protection class (Device): IP 20		
anthracite	**0248/05-101**	2CKA000230A0404	10/100

[1]) Suitable for cover telephone unit 1766-xxx and 2539-21x.

	**Cover plate [1])** For Busch-Radio DAB+ 8215 U-101. For Busch-Radio BTconnect DAB+ 8217 U-101. For Busch-Radio iNet 8216 U.		
stainless steel	**8252-866-101-500**	2CKA008200A0264	10

[1]) Surface painted.

	**Cover plate [1])** For loudspeaker insert 8223 U. Surface painted.		
stainless steel	**8253-866**	2CKA008200A0087	1/10

[1]) Surface painted.

	**Cover plate** For telephone connection unit. For USB, VGA, HDMI inserts and communication adapter. USB power adapter insert 6472 U-500-101. USB power adapter insert 6475 U-101-500. For loudspeaker connection box. Suitable for part number 0248/0x-101. For data modules. Suitable for Art. No. 0219/12 and 0219/13. For modular outlets with 90° RJ45 outlet from Telegärtner (type MJ and WE). Protection class (Device): IP 20		
stainless steel	**1766-866**	2CKA001710A3765	10/100

pure stainless steel

Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **with metal mounting plate** With fixing claws. loudspeaker inserts and cover. With soldering tag. For covering universal data communication connectors and circular connectors with screwed plug M 16x0.75 (installable in insert) in accordance with DIN 41524, 41529, 45322, 45327, 45328 and 45329. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**1751-866**	2CKA001723A0255	10
	**Cover plate** **with rotary control, with marking** As a cover for volume controllers. Suitable for the >LR mono BJ FM< devices of WHD. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20		
stainless steel	**1740 DR/03-866**	2CKA001710A3812	10
	**Cover plate for Busch-powerDock [1])** For Busch-powerDock charging cradle.		
stainless steel	**6477-866**	2CKA006400A0064	10

[1]) Surface painted.

Room thermostats

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted [1]) [2]) [3])** Switch contact opens when the set temperature is reached. With fixing claws. Separate terminal to activate nighttime mode and reduction of room temperature by 4K. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Rated current: 10 A Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1094 U-500	2CKA001032A0512	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2]) Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3]) Switching temperature difference: ± 0.5 K.

	**Room thermostat, flush-mounted [1]) [2]) [3])** **Slide switch** With built-in slide switch and control lamp for nightly reduction of 4 K. Switch contact opens when the set temperature is reached. With fixing claws. Separate terminal to activate nighttime mode and reduction of room temperature by 4K. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Rated current: 10 A Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1095 U-500	2CKA001032A0514	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2]) Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3]) Switching temperature difference: ± 0.5 K.

pure stainless steel
Room thermostats

Product	Article-No.	Order-No.	Pack/Qty



Room thermostat, flush-mounted [1] [2] [3]
Sliding switch, 24 V
With built-in slide switch and control lamp for nightly reduction of 4 K.
Switch contact opens when the set temperature is reached.
With fixing claws.
Separate terminal to activate nighttime mode and reduction of room temperature by 4K.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 24 V~
Rated current: 1 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1096 U	2CKA001032A0485	1
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat, e.g., Art. No. 6164/10 .
[3] Switching temperature difference: ± 0.5 K.



Room thermostat, flush-mounted [1] [2] [3]
1gang 2way
With fixing claws.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 5 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1097 U-500	2CKA001032A0513	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo valves of "closed or open when de-energized“ design are required for the controller. E.g. article no. 6164/10-101.
[3] Switching temperature difference: ± 0.5 K.

Product	Article-No.	Order-No.	Pack/Qty



Room thermostat, flush-mounted [1] [2] [3]
Actual value indication
With actual value temperature display
Automatic controller calibration
Switch contact opens when the set temperature is reached.
With fixing claws.
Separate terminal to activate nighttime mode and reduction of room temperature by 4K.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 10 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1094 UTA	2CKA001032A0487	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3] Switching temperature difference: ± 0.5 K.



Room thermostat, flush-mounted [1] [2] [3]
Sliding switch, actual value indication
With actual value temperature display
Automatic controller calibration
Switch contact opens when the set temperature is reached.
With built-in slide switch and control lamp for nightly reduction of 4 K.
With fixing claws.
Separate terminal to activate nighttime mode and reduction of room temperature by 4K.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 10 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1095 UTA	2CKA001032A0488	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3] Switching temperature difference: ± 0.5 K.

pure stainless steel
Room thermostats

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted [1] [2] [3]** **Sliding switch, actual value indication, 24 V** With actual value temperature display Automatic controller calibration Switch contact opens when the set temperature is reached. With built-in slide switch and control lamp for nightly reduction of 4 K. With fixing claws. Separate terminal to activate nighttime mode and reduction of room temperature by 4K. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 24 V~ Rated current: 1 A Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1096 UTA	2CKA001032A0489	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat, e.g., Art. No. 6164/10 .
[3] Switching temperature difference: ± 0.5 K.

	**Room thermostat, flush-mounted [1] [2] [3]** **Change-over contact, actual value indication** With actual value temperature display Automatic controller calibration With fixing claws. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Rated current: 5 A Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1097 UTA	2CKA001032A0490	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo valves of "closed or open when de-energized“ design are required for the controller. E.g. article no. 6164/10-101.
[3] Switching temperature difference: ± 0.5 K.

	**Room thermostat, flush-mounted [1] [2] [3]** **Change-over contact, setpoint indication, timer** With change-over contact. Easy adjustment using menu and text-based display. 4 switching times per day can be user-defined for each day of the week. With fixing claws. Automatic summer/wintertime switch-over Power reserve > 10 hours. To fit cover plate 6435-xxx. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Rated current: 10 A Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9		
	1098 U-101	2CKA001032A0508	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo valves of "closed or open when de-energized“ design are required for the controller. E.g. article no. 6164/10-101.
[3] Switching temperature difference: ± 0.5 K.

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted [1]** **Remote sensor** With remote sensor and thermal feedback For underfloor heating. With built-in slide switch and control lamp for nightly reduction of 4 K. Switch contact opens when the set temperature is reached. With fixing claws. Remote sensor cable length: 4 m. Sensor =NTC, 10 kilo-ohm at 25 degrees C. Adjusting range: +10 to +50° C. Connecting cable: 1mm² to 2.5 mm² Separate terminal to activate nighttime mode and reduction of room temperature by 4K. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Rated current: 16 A, cos ϕ 1 Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1095 UF	2CKA001032A0497	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Room thermostat, flush-mounted [1] [2]** **Change-over contact, setpoint indication, timer, remote sensor** With change-over contact. Easy adjustment using menu and text-based display. 4 switching times per day can be user-defined for each day of the week. With fixing claws. Automatic summer/wintertime switch-over Remote sensor cable length: 4 m. Sensor =NTC, 10 kilo-ohm at 25 degrees C. Power reserve > 10 hours To fit cover plate 6435-xxx. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Rated current: 16 A Temperature range (Device): 10 °C to 50 °C Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9		
	1098 UF-101	2CKA001032A0509	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo valves of "closed or open when de-energized“ design are required for the controller. E.g. article no. 6164/10-101.

pure stainless steel
Room thermostats

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted [1] [2] [3]** **Heating/cooling** With separate connection (230 V~) for external switchover between heating or cooling. Switch contact opens when the set temperature is reached. With fixing claws. Nominal current: 10 A heating Nominal current: 5 A cooling Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 12 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1099 UHK	2CKA001032A0515	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3] Switching temperature difference: ± 0.5 K.

	**Room thermostat, flush-mounted [1] [2] [3]** **Heating/cooling, sliding switch** With built-in sliding switch for switchover between cooling or heating. Switch contact opens when the set temperature is reached. With fixing claws. Nominal current: 10 A heating Nominal current: 5 A cooling Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 12 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1099 UHKEA	2CKA001032A0516	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3] Switching temperature difference: ± 0.5 K.

	**Cover plate** **for room thermostat** For room thermostats 1094 U, 1097 U. Surface painted.		
stainless steel	**1794-866**	2CKA001710A3755	10

	**Cover plate** **for room thermostat** With sliding switch for nightly room temperature reduction. to activate nighttime mode and reduction of room temperature by 4K, for thermostats 1095 U, 1096 U and 1095 UF. Surface painted.		
stainless steel	**1795-866**	2CKA001710A3756	10

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **for room thermostat** For room thermostats 1094 UTA, 1097 UTA. Surface painted.		
stainless steel	**1794 TA-866**	2CKA001710A3761	10

	**Cover plate** **for room thermostat** With sliding switch for nightly room temperature reduction. For room thermostats 1095 UTA, 1096 UTA. Surface painted.		
stainless steel	**1795 TA-866**	2CKA001710A3762	10

	**Cover plate [1]** For comfort timer control element 6455-101-500. For standard timer control element 6456-101. For room thermostats 1098 U-101 and 1098 UF-101. For short-time timer 6465 U-101. For Busch-CO2 sensor 1091 U-500. For blind compact timer 6422 U. Surface painted.		
stainless steel	**6435-866**	2CKA006430A0344	10

[1] Surface painted.

	**Cover plate** **for room thermostat** For room temperature controller 1099 UHK. Surface painted.		
stainless steel	**1795 HK-866**	2CKA001710A4018	10

	**Cover plate** **for room thermostat** For room temperature controller 1099 UHKEA. With sliding switch for switchover between cooling or heating. Surface painted.		
stainless steel	**1795 HKEA-866**	2CKA001710A4050	10

pure stainless steel

LED light

Product	Article-No.	Order-No.	Pack/Qty
	**Info light unit [1] [2]** Size of information field 43 x 43 mm. Long service life of the lighting element (LEDs). Homogeneous backlighting of the information field. Colour temperature 6,500 K (cold white) Power consumption: < 0.5 W Rated voltage: 230 V~ Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20		
	2062 U	2CKA001511A0115	1/10

[1] Use relay inserts when switching through movement sensors or comfort switches.
[2] For switching the LED flush mounted insert use switches without orientation light only.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1] [2]** As cover for flush-mounted info light. For insert 2062 U. Size of information field 43 x 43 mm. Surface painted. Protection class (Device): IP 20		
stainless steel	**1716-866**	2CKA001731A1955	1

[1] Included with the cover are 46 different text labels and symbols.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **for indication lamp** For insert 2061/2661 U. As cover for flush-mounted light signal. Surface painted. Protection class (Device): IP 20		
stainless steel	**1756-866**	2CKA001753A0093	10

Product	Article-No.	Order-No.	Pack/Qty
	**Cap** **for indication lamp** For indication lamps. Protection class (Device): IP 20		
clear-transparent	**1565-11**	2CKA001565A0167	10
Red	**1565-12**	2CKA001565A0175	10
green	**1565-13**	2CKA001565A0183	10

WaveLINE inserts / control elements

Product	Article-No.	Order-No.	Pack/Qty
	**RF remote control** • Network-independent radio control. • For switching and dimming. • For controlling blinds and light scenes. • With 3 groups (A, B or C) with 5 pairs of channels. • There are 15 radio channels operated singly or up to 30 light scenes can be called.		
	6780	2CKA006780A0002	1

Product	Article-No.	Order-No.	Pack/Qty
	**1-fach Aktor WaveLINE** • For wireless switching of electrical loads. • Functions via radio control: ON/OFF, timer and light scene control. • Functions via the extension unit: ON/OFF, timer and sending a radio control telegram. • Operation via conventional push button (2020 US/2021/6 UK) possible.		
	6701-101-500	2CKA006700A0040	1

Product	Article-No.	Order-No.	Pack/Qty
	**1-fach Aktor WaveLINE** • For wireless switching of electrical loads. • For functions ON/OFF, timer and lightscene control. • For wall mounted transmitter Waveline 6731-xxx, 6732-xxx und 6733-xxx. • For remote control WaveLINE 6780. • Switch-off delay: Adjustable between 10 s to 5 min.		
	6702-500	2CKA006700A0023	1

Product	Article-No.	Order-No.	Pack/Qty
	**2-fach Aktor WaveLINE** • For wireless switching of electrical loads. • For operation mode 2gang switch, 2 separate outputs. • For operation mode timer: output 1 (eg lighting), output 2: ON/Off delay in dependence of output 1 (eg fan control). • For functions: ON/OFF and light scene control. • For wall mounted transmitter Waveline 6731-xxx, 6732-xxx und 6733-xxx		
	6703-500	2CKA006700A0024	1

Product	Article-No.	Order-No.	Pack/Qty
	**Dimm Aktor WaveLINE** • For wireless switching and dimming of electrical loads. • For functions ON/OFF, dimming and lightscene control. • With soft ON/OFF function. • With selectable light value storage. • For wall mounted transmitter Waveline 6731-xxx, 6732-xxx und 6733-xxx.		
	6704-500	2CKA006700A0025	1

Product	Article-No.	Order-No.	Pack/Qty
	**Serien/Jalousieaktor WaveL** • For wireless switching of electrical loads. • For driving and adjusting blinds/shutters and awnings over radio. • Functions via radio control: 2gang switch, blind switch and light scene control. • Functions via extension unit: 2gang switch, blind switch and send radio control telegram. • Operation via conventional push button (2020 US/2021/6 UK) possible.		
	6705-101-500	2CKA006700A0042	1

pure stainless steel

ZigBee Light Link inserts / control elements

Product	Article-No.	Order-No.	Pack/Qty
	**2-fach Binärein. WaveLINE** • Radio control telegrams are sent when the two extension units are activated with mains voltage (AC 230 V~). • Operation via conventional push button (2020 US/2021/6 UK) possible. • The 2gang binary input has 5 function modes: 1) 2-channel switching 2) 2-channel dimming 3) 1 channel blind 4) Two-channel light scene control 5) Channel 1: Switching ON Channel 2: Continuous switching ON/OFF		
	6725-500	2CKA006720A0008	1

pure stainless steel

WaveLINE control elements

Product	Article-No.	Order-No.	Pack/Qty
	**Wall-mounted transmitter WaveLINE [1] [2] [3]** **1-channel** 1gang wall-mounted transmitter independent of mains power supply. With labelling field and labelling strip. For switching and dimming. For controlling blinds and light scenes. 1 radio channel can be operated or up to 2 light scenes can be called up. For flush-mounted WaveLINE actuators 6701-101, 6702, 6703, 6704 and 6705-101. For LED display WaveLINE 6730-xxx. Compatible with WaveLINE KNX gateway TP-RF 6770. Send frequency: 868 MHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery Type CR2032. Battery service life: typically 5 years, therefore practically maintenance-free. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Surface painted. Control element: rocker switch left/right Display elements: LED to indicate the transmission Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 16 mm		
stainless steel	**6731-866-500**	2CKA006730A0041	1/10

[1] Battery included in delivery.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Surface painted.

	**Wall-mounted transmitter WaveLINE [1] [2] [3]** **2-channel** 2gang wall-mounted transmitter independent of mains power supply. With labelling field and labelling strip. For switching and dimming. For controlling blinds and light scenes. 2 radio channels can be operated or up to 4 light scenes can be called up. For flush-mounted WaveLINE actuators 6701-101, 6702, 6703, 6704 and 6705-101. Send frequency: 868 MHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery Type CR2032. Battery service life: typically 5 years, therefore practically maintenance-free. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Surface painted. Control element: rocker switch left/right Display elements: LED to indicate the transmission Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 16 mm		
stainless steel	**6732-866-500**	2CKA006730A0042	1/10

[1] Battery included in delivery.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Surface painted.

pure stainless steel

ZigBee Light Link inserts / control elements

Product	Article-No.	Order-No.	Pack/Qty
	**Wall-mounted transmitter WaveLINE [1] [2] [3]** **4-channel** 4gang wall-mounted transmitter independent of mains power supply. With labelling field and labelling strip. For switching and dimming. For controlling blinds and light scenes. 4 radio channels can be operated or up to 8 light scenes can be called up. For flush-mounted WaveLINE actuators 6701-101, 6702, 6703, 6704 and 6705-101. For LED display WaveLINE 6730-xxx. Compatible with WaveLINE KNX gateway TP-RF 6770. Send frequency: 868 MHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery Type CR2032. Battery service life: typically 5 years, therefore practically maintenance-free. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Surface painted. Control element: rocker switch left/right Display elements: LED to indicate the transmission Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 16 mm		
stainless steel	**6733-866-500**	2CKA006730A0043	1/10

[1] Battery included in delivery.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Surface painted.

	**ZLL-Power supply insert** • With electronic short-circuit protection. • With electronic overload protection. • For ZigBee Light Link control element 6735-xxx, 6736-xxx and 6737-xxx. • Without control cover. • Rated voltage: 230 V~, +10 % / -10 % • Secondary: 5 V-, +5 % / -5 %		
	6710 U-500	2CKA006710A0005	1

	**ZLL-Relay insert** • 3 wire connection (neutral conductor required). • For switching retrofit LED lamps (LEDi). • For switching incandescent lamps, 230 V tungsten halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are actuated via transformers. • Without control cover.		
	6711 U-500	2CKA006710A0006	1

	**ZLL-Dimmer insert** • Touch dimmer. • For wireless switching and dimming of electrical loads. • 3 wire connection (neutral conductor required). • Optimised for dimming of retrofit LED lamps (LEDi). • For incandescent lamps, 230V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers and dimmable halogen energy-saving lamps.		
	6715 U-500	2CKA006710A0007	1

Product	Article-No.	Order-No.	Pack/Qty
	**ZLL-Plug-in unit Switch** • Plug device for switching electric loads up to 1,380 W/VA. • Control of thermal positioners for heating control possible. • Not for electrical heating devices. • Connected load can be activated/deactivated via micro switch. • Send/receive frequency: 2.4 GHz.		
	6717-84-500	2CKA006710A0008	1

	**ZigBee Light Link control element [1]** **1gang** For wireless switching and dimming of electrical loads. For ZigBee Light Link flush-mounted inserts 6710 U, 6711 U and 6715 U. In connection with the ZigBee Light Link flush-mounted inserts 6711 U and 6715 U the top rocker is used to switch or dim the non-ZLL lamps connected to the flush-mounted insert directly. In the case of 6736 and 6737, the other keys can be used for saving, calling and dimming lightscenes. In combination with the ZigBee LightLink-UP insert 6710 U for storing and calling up 2 light scenes or dimming a light scene. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. Push-button function: Switching/dimming/light scenes. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
stainless steel	**6735-866**	2CKA006730A0098	1

[1] Surface painted.

	**ZigBee Light Link control element [1]** **2gang** For wireless switching and dimming of electrical loads. For ZigBee Light Link flush-mounted inserts 6710 U, 6711 U and 6715 U. In connection with the ZigBee Light Link flush-mounted inserts 6711 U and 6715 U the top rocker is used to switch or dim the non-ZLL lamps connected to the flush-mounted insert directly. In the case of 6736 and 6737, the other keys can be used for saving, calling and dimming lightscenes. In combination with the ZigBee LightLink-UP insert 6710 U for storing and calling up 4 light scenes or dimming 2 light scenes. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
stainless steel	**6736-866**	2CKA006730A0104	1

[1] Surface painted.

pure stainless steel

WaveLINE control elements

Product	Article-No.	Order-No.	Pack/Qty
	**ZigBee Light Link control element [1])** **4gang** For wireless switching and dimming of electrical loads. For ZigBee Light Link flush-mounted inserts 6710 U, 6711 U and 6715 U. In connection with the ZigBee Light Link flush-mounted inserts 6711 U and 6715 U the top rocker is used to switch or dim the non-ZLL lamps connected to the flush-mounted insert directly. In the case of 6736 and 6737, the other keys can be used for saving, calling and dimming lightscenes. In combination with the ZigBee LightLink-UP insert 6710 U for storing and calling up 8 light scenes or dimming 4 light scenes. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
stainless steel	**6737-866**	2CKA006730A0110	1

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**ZigBee Light Link wall-mounted transmitter [1])** **1-channel** 1gang wall-mounted transmitter independent of mains power supply. For the wireless remote control of other ZigBee Light Link radio components. For saving and calling up 2 light scenes. For dimming a light scene. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery type CR2450 (included in scope of delivery) Battery service life: typically 3 years. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
stainless steel	**6735/01-866**	2CKA006730A0116	1

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**ZigBee Light Link wall-mounted transmitter [1])** **2-channel** 2gang wall-mounted transmitter independent of mains power supply. For the wireless remote control of other ZigBee Light Link radio components. For saving and calling up 4 light scenes. For dimming 2 light scenes. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery type CR2450 (included in scope of delivery) Battery service life: typically 3 years. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
stainless steel	**6736/01-866**	2CKA006730A0122	1

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**ZigBee Light Link wall-mounted transmitter [1])** **4-channel** 4gang wall-mounted transmitter independent of mains power supply. For the wireless remote control of other ZigBee Light Link radio components. For saving and calling up 8 light scenes. For dimming 4 light scenes. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery type CR2450 (included in scope of delivery) Battery service life: typically 3 years. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
stainless steel	**6737/01-866**	2CKA006730A0128	1

[1]) Surface painted.

pure stainless steel

Accessories

Product	Article-No.	Order-No.	Pack/Qty
	**Extension of claws [1])** For the installation of flush-mounted SCHUKO® socket outlets and also switches, push-buttons, etc. and deeply installed flush-mounted boxes. Protection class (Device): IP 20		
	2148	2CKA002148A0120	100

[1]) Not suitable for types 2000/3 US, 2000/6/2 US, 2000/6/6 US-101 and double socket outlets.

	**Braille symbol** self-adhesive (transparent) for cover 2506-xxx Protection class (Device): IP 20		
	light		
	2144 LI	2CKA001714A0295	10/1000
	bell		
	2144 KI	2CKA001714A0296	10/1000
	key		
	2144 TR	2CKA001714A0297	10/1000

	**Braille symbol** **socket outlet** self-adhesive, transparent for SCHUKO® socket outlets with hinged lid 20 EUK-xxx Protection class (Device): IP 20		
	2144 ST	2CKA001714A0298	10/1000

	DIN A 4 labelling sheet [1]) **plastic foil** Suitable for all to be labeled Busch-Jaeger devices. For laser printer. The text of the foil is printed via the Busch-Jeager labeling service. Dimensions: (L x W x D): 297 mm		
translucent	**1799/02**	2CKA001799A0959	1
transparent	**1799/03**	2CKA001799A0960	1

[1]) 1 piece = 1 sheet.

	**RC suppressor** For protection against the damage or destruction of electronic devices due to overvoltages. For wiring network-interconnected inductivities (e.g.. relay, protection, fluorescent lamps, transformers, etc.). Eliminates functional disturbances on electronic devices, e.g. automatic circuit reclosure (clocking) of a movement detector. Dimensions: diameter 25 mm, length 35 mm, length of the connecting cable approx. 100 mm. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz		
	6899	2CKA006899A0231	10

Cover frames

Product	Article-No.	Order-No.	Pack/Qty
	**Cover frame [1])** **1gang frame** Material stainless steel. Anti fingerprint. Protection class (Device): IP 20 Dimensions: (L x W x D): 80 mm x 80 mm x 11 mm		
stainless steel	**1721-866K-500**	2CKA001754A4500	10/100

[1]) Suitable for installation in trunking systems with 80 mm conduit.

	**Cover frame [1])** **2gang frame** For vertical or horizontal installation. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20 Dimensions: (L x W x D): 151 mm x 80 mm x 11 mm		
stainless steel	**1722-866K-500**	2CKA001754A4501	10/100

[1]) Suitable for installation in trunking systems with 80 mm conduit.

	**Cover frame [1])** **3gang frame** For vertical or horizontal installation. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20 Dimensions: (L x W x D): 222 mm x 80 mm x 11 mm		
stainless steel	**1723-866K**	2CKA001754A4319	10

[1]) Suitable for installation in trunking systems with 80 mm conduit.

	**Cover frame [1])** **4gang frame** For vertical or horizontal installation. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20 Dimensions: (L x W x D): 293 mm x 80 mm x 11 mm		
stainless steel	**1724-866K**	2CKA001754A4320	1

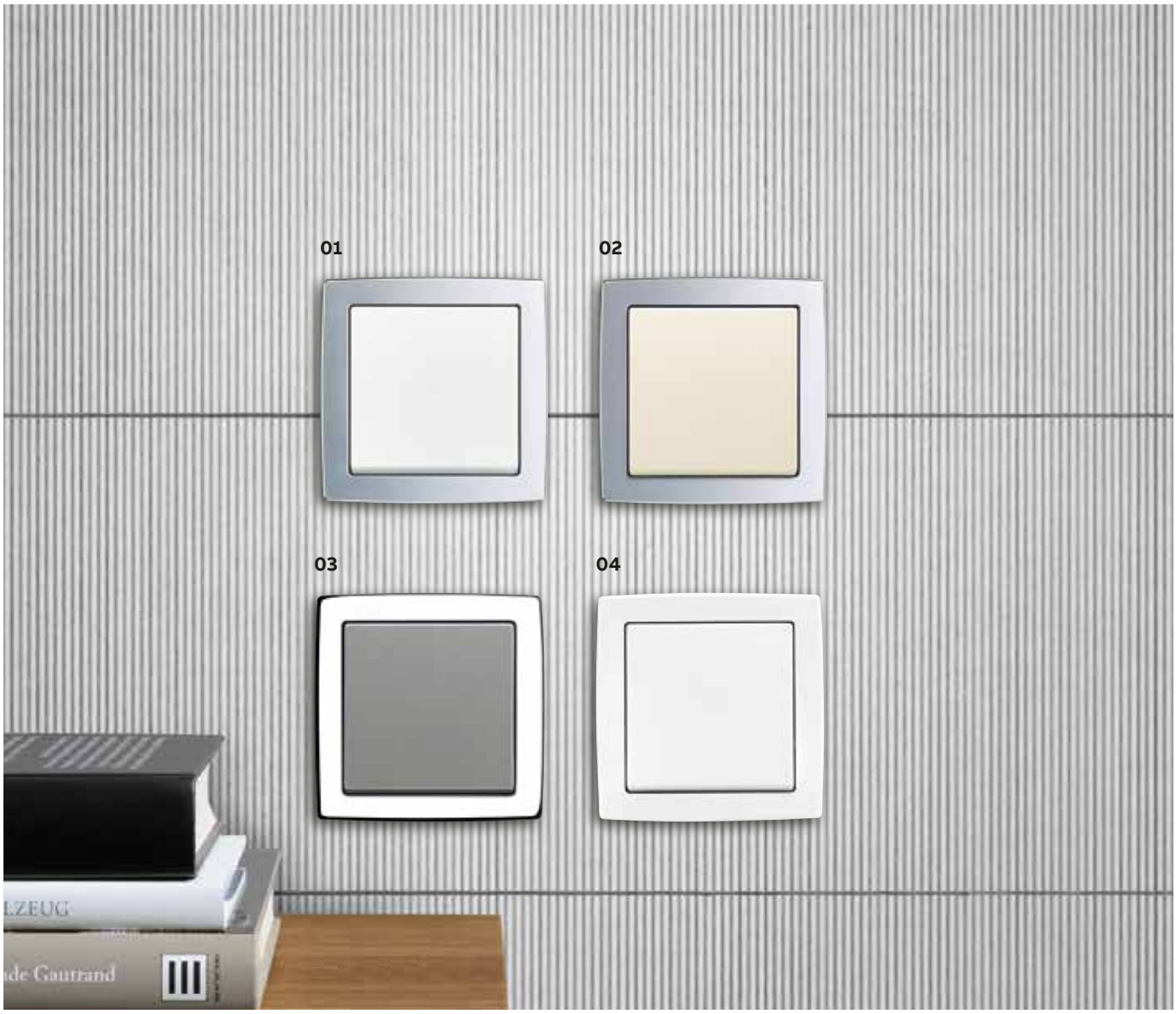
[1]) Suitable for installation in trunking systems with 80 mm conduit.

	**Cover frame [1])** **5gang frame** For vertical or horizontal installation. Material stainless steel. Anti fingerprint. Protection class (Device): IP 20 Dimensions: (L x W x D): 394 mm x 80 mm x 11 mm		
stainless steel	**1725-866K**	2CKA001754A4321	1

[1]) Suitable for installation in trunking systems with 80 mm conduit.

solo®
Touching beauty.

Delicate shades of the cover-plates and cool chrome come together. Natural attraction. They make a harmonious unit. Let solo® switches and socket outlets shine. They will become a significant design piece of any interior. Beauty which touches every day.

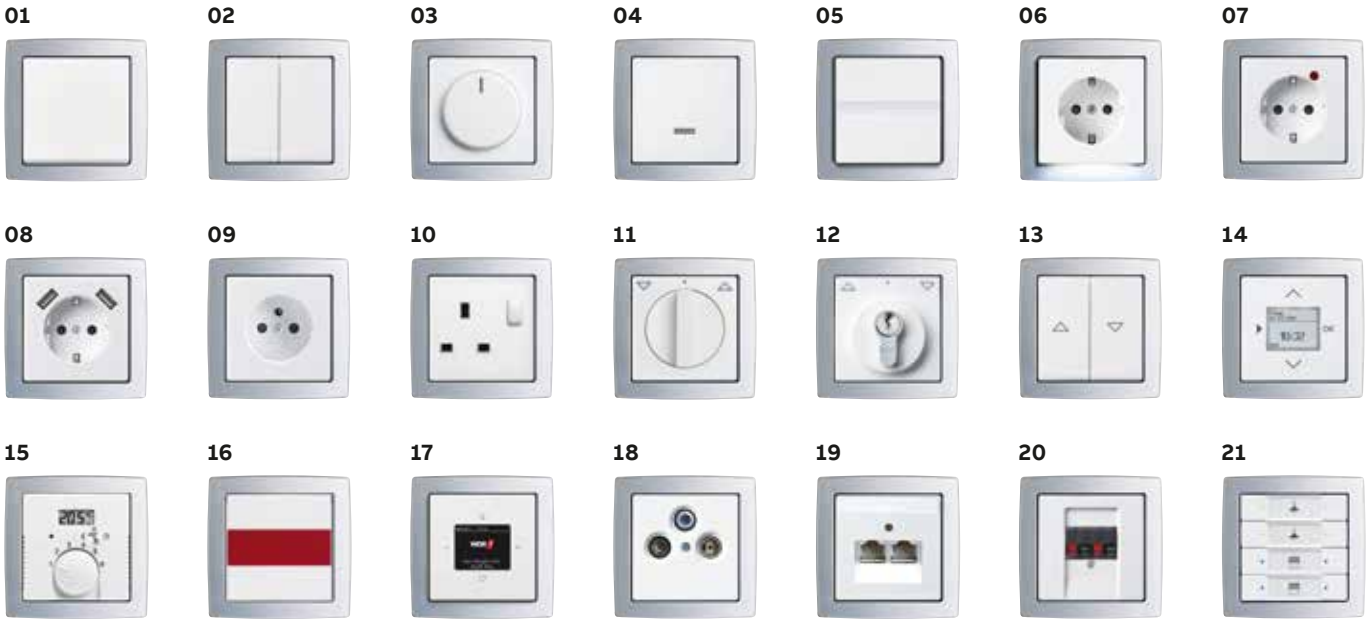


01 studio white (similar to RAL 9016) / chrome matt
02 ivory (similar to RAL 9013) / chrome matt
03 grey metallic / chrome gloss
04 studio white (similar to RAL 9016) / studio white

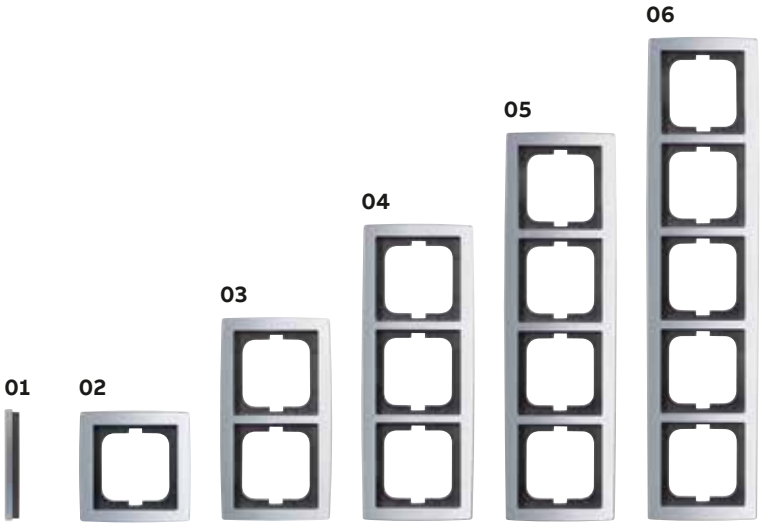
Materials
Cover: thermoplastic cover (PC), impact-proof and fracture-resistant, UV-resistant, free of PVC and halogen.

solo®

Selected functions.



01 Rocker switch 1gang
02 Rocker switch 2gang
03 Busch Universal Rotary Dimmer
04 Touch dimmer
05 Busch-Comfort switch
06 Busch-steplight®
07 Busch-Protector® SCHUKO® socket outlet with overvoltage protection
08 SCHUKO® USB socket outlet, 2x USB A
09 Socket outlet with earthing pin
10 Switched socket outlet BS standard
11 Blind switch with rotary knob
12 Busch-Blind control switch with semi-cylindrical lock
13 Busch-Blind
14 Comfort timer
15 Room thermostat with display
16 Busch-Infoline® alarm insert
17 Busch-Radio DAB+
18 Antenna socket for radio/TV/satellite
19 Universal data connection box
20 Stereo loudspeaker connecting box
21 KNX sensor, for more KNX products see part 12 of the catalogue - Intelligent Building Solutions



1 to 5gang cover frame for horizontal and vertical installation.
01 Side view, 11 mm x 87 mm
02 87 mm x 87 mm
03 87 mm x 157 mm
04 87 mm x 228 mm
05 87 mm x 299 mm
06 87 mm x 370 mm

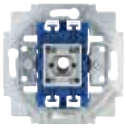
For more information about light switch ranges visit ABB global web sites.

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Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	1gang 2way		
	2000/6 US-500	2CKA001012A2198	10/100
	2gang 1way		
	2000/5 US-500	2CKA001012A1150	10/100
	DP, 1gang 2way [2]		
	2000/6/2 US	2CKA001012A0954	10
	1gang		
	2000/7 US-500	2CKA001012A2199	10/100
	DP, 1gang 1way		
	2000/2 US-500	2CKA001012A2196	10/100
	SP, 1gang 1way switch		
	2000/1 US-500	2CKA001012A2059	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] With screw-type terminals. Non-illuminable.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	Switch-off and two-way circuit 16 A		
	2400/6 US-500	2CKA001012A2232	10/100
	2gang switch 16 A		
	2400/5 US-500	2CKA001012A2234	10
	1gang intermediate 16 A		
	2400/7 US-500	2CKA001012A2236	10

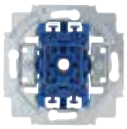
[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** **2gang 2way** With screwless terminals. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	2000/6/6US-101-500	2CKA001011A0928	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** **Changeover/changeover circuit 16 A** With screwless terminals. Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2400/6/6US-101-500	2CKA001022A0663	10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1] [2]** **DP, 1gang 1way** For switching high loads. Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2000/2 US-101-500	2CKA001012A2193	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Also for switching SCHUKO® socket outlets.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1] [2]** **3-pole, 1gang 1way switch** Rated voltage: 400 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2000/3 US	2CKA001011A0816	10

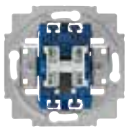
[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] With screw-type terminals. Non-illuminable.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** With neon lamp. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	1gang 2way [2]		
	2000/6 USGL-500	2CKA001012A2194	10/100
	2gang 1way		
	2000/5 USGL	2CKA001012A1135	10

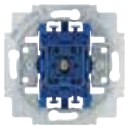
[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Replacement lamps 8360, 8362, and 8363 and LED inserts.

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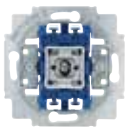
Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism, control [1])** **2gang switch with N-clamp 16 A** with LED, Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2400/5 USK-500	2CKA001012A2238	10

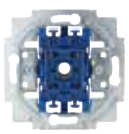
[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Rocker Switch Mechanism, control [1]) [2]) [3])** With neon lamp. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1 **1gang 2way with N-terminal**		
	2000/6 USK-500	2CKA001022A0659	10/100
	DP, 1gang 1way		
	2000/2 UK	2CKA001022A0656	10

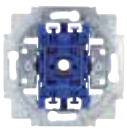
[1]) With 1 mA neon lamp.
[2]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[3]) Illuminable by using lamps 8360, 8362, 8363, 8365, 8366, and 8367 and LED inserts.

	**Rocker Switch Mechanism, control [1]) [2]) [3])** **Switch-off and two-way circuit with N-clamp 16 A** With neon lamp. Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2400/6 USK-500	2CKA001022A0661	10

[1]) With 1 mA neon lamp.
[2]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[3]) Illuminable by using lamps 8360, 8362, 8363, 8365, 8366, and 8367 and LED inserts.

	**Push-switch mechanism [1])** **SP, with normally open contact (operating current)** With N terminal. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 US-500	2CKA001413A0574	10/100

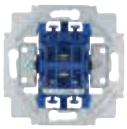
[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Push-switch mechanism [1])** **SP, with normally open contact (operating current)** With 2 independent signalling contacts. Rated voltage: 250 V~ Inputs: 1 Outputs: 1 Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 US-201	2CKA001413A0483	10

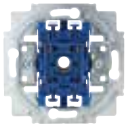
[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Push-switch mechanism [1]) [2]) [3])** **SP, with normally open contact (operating current)** With illumination. With N terminal. Rated voltage: 250 V~, Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 USGL-500	2CKA001413A1106	10/100

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2]) Replacement lamps 8360, 8362, and 8363 and LED inserts.
[3]) For relay and touch dimmer applications.

	**Push-switch mechanism [1])** With one input terminal and 2 actuating covers. Rated voltage: 250 V~ Inputs: 1 Outputs: 2x Normally open contact Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 US-205-500	2CKA001413A1105	10/100

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Push-switch mechanism [1])** **SP, 1gang 2way** Can be wired for normally open contacts (stand-by current) or normally closed contacts (operating current). With N terminal. Rated voltage: 250 V~, Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 US-206-500	2CKA001413A1104	10/100

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	Rocker For flush-mounted switch 1g1w, 1g2w, intermediate, push switch. Protection class (Device): IP 20		
ivory white	**1786-82-500**	2CKA001751A3083	10/100
studio white	**1786-84-500**	2CKA001751A3074	10/100
grey metallic [1])	**1786-803-500**	2CKA001751A3093	10/100

[1]) Surface painted.

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Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	Rocker For flush-mounted switch 2g 1w, 2g push switch. Protection class (Device): IP 20		
ivory white	**1785-82**	2CKA001751A2744	10/100
studio white	**1785-84-500**	2CKA001751A3076	10/100
grey metallic [1])	**1785-803**	2CKA001751A3018	10/100

[1]) Surface painted.

	**Rocker** As a cover for flush-mounted control 2gang switch. Protection class (Device): IP 20		
ivory white	**1785 K-82-500**	2CKA001751A3124	10
studio white	**1785 K-84-500**	2CKA001751A3128	10
grey metallic [1])	**1785 K-803-500**	2CKA001751A3130	10

[1]) Surface painted.

	**Rocker** **with small red spherical cap** As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way. Protection class (Device): IP 20		
ivory white	**1789-82**	2CKA001751A2813	10
studio white	**1789-84-500**	2CKA001751A3091	10/100
grey metallic [1])	**1789-803**	2CKA001751A3013	10

[1]) Surface painted.

	**Rocker** **with small transparent lens** As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way. Protection class (Device): IP 20		
ivory white	**1789 N-82**	2CKA001751A3148	10/100
studio white	**1789 N-84-500**	2CKA001751A3151	10/100
grey metallic [1])	**1789 N-803**	2CKA001751A3146	10/100

[1]) Surface painted.

	**Switch rocker with marking** **with small transparent lens** With >Plug< icon. As cover for flush-mounted switch 1g1w DP and 3pole with neon lens and marking "I O" As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way. Protection class (Device): IP 20		
ivory white	**1789 ST-82**	2CKA001751A3158	10/100
studio white	**1789 ST-84-500**	2CKA001751A3161	10/100
grey metallic [1])	**1789 ST-803**	2CKA001751A3156	10/100

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** With >Light< icon. For flush-mounted switch 1g1w, 1g2w, intermediate, push switch. Protection class (Device): IP 20		
ivory white	**2520 LI-82**	2CKA001751A3187	10/100
studio white	**2520 LI-84-500**	2CKA001751A3190	10/100
grey metallic [1])	**2520 LI-803**	2CKA001751A3185	10/100

[1]) Surface painted.

	**Switch rocker with marking** With >Key< icon. For flush-mounted push switch. Protection class (Device): IP 20		
ivory white	**2520 TR-82**	2CKA001751A3197	10/100
studio white	**2520 TR-84**	2CKA001751A3199	10/100
grey metallic [1])	**2520 TR-803**	2CKA001751A3195	10/100

[1]) Surface painted.

	**Switch rocker with marking** With >Bell< icon. For flush-mounted push switch. Protection class (Device): IP 20		
ivory white	**2520 KI-82**	2CKA001751A3177	10/100
studio white	**2520 KI-84-500**	2CKA001751A3180	10/100
grey metallic [1])	**2520 KI-803**	2CKA001751A3175	10/100

[1]) Surface painted.

	**Switch rocker with marking** **with small transparent lens** With >Light< icon. As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way. Protection class (Device): IP 20		
ivory white	**1789 LI-82**	2CKA001751A2745	10
studio white	**1789 LI-84-500**	2CKA001751A3084	10/100
grey metallic [1])	**1789 LI-803**	2CKA001751A3014	10

[1]) Surface painted.

	**Switch rocker with marking** **with small transparent lens** With >Key< icon. For flush-mounted push switch. Protection class (Device): IP 20		
ivory white	**1789 TR-82**	2CKA001751A2747	10
studio white	**1789 TR-84**	2CKA001751A2755	10
grey metallic [1])	**1789 LI-803**	2CKA001751A3014	10

[1]) Surface painted.

solo®

Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking with small transparent lens** With >Bell< icon. For flush-mounted push switch. Protection class (Device): IP 20		
ivory white	**1789 KI-82**	2CKA001751A2746	10
studio white	**1789 KI-84**	2CKA001751A2754	10
grey metallic [1])	**1789 KI-803**	2CKA001751A3015	10

[1]) Surface painted.

	**Rocker [1]) [2])** **with labelling field** With >Bell< icon. With pilot lamp for uniform illumination of the labelling field. For flush-mounted push switch. Size of labelling field: 59.7 x 11.7 mm. Protection class (Device): IP 20		
ivory white	**1764 NLI/KI-82**	2CKA001731A3999	10/100
studio white	**1764 NLI/KI-84-500**	2CKA001731A4002	10/100
grey metallic [3])	**1764 NLI/KI-803**	2CKA001731A3997	10/100

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Illumination using neon lamp 8353 or incandescent lamp 8344-1 and LED inserts.
[3]) Surface painted.

	**Rocker [1]) [2])** **with labelling field** With pilot lamp for uniform illumination of the labelling field. For flush-mounted switch 1g1w, 1g2w, intermediate, push switch. Size of labelling field: 59.7 x 11.7 mm. Protection class (Device): IP 20		
ivory white	**1764 NLI-82**	2CKA001731A1876	10
studio white	**1764 NLI-84**	2CKA001731A1877	10/100
grey metallic [3])	**1764 NLI/KI-803**	2CKA001731A3997	10/100

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Illumination using neon lamp 8353 or incandescent lamp 8344-1 and LED inserts.
[3]) Surface painted.

	**Switch rocker with marking with small red spherical cap** With imprint >0< and >I<. As cover for 2-pole or 3-pole flush-mounted on-off switch and 2-pole control on-off switch. Protection class (Device): IP 20		
ivory white	**1788-82**	2CKA001751A2742	10
studio white	**1788-84**	2CKA001751A2750	10/100
grey metallic [1])	**1788-803**	2CKA001751A3017	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking with small red spherical cap** With >Heating< imprint. As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way. As cover for 2-pole or 3-pole flush-mounted on-off switch and 2-pole control on-off switch. Protection class (Device): IP 20		
ivory white	**1789 H-82**	2CKA001751A2743	10
studio white	**1789 H-84**	2CKA001751A2751	10
grey metallic [1])	**1789 H-803**	2CKA001751A3019	10

[1]) Surface painted.

	**Card switch 10 A [1])** **SP, with normally open contact (operating current)** Illuminable. With N terminal. Rated voltage: 250 V~ Rated current: 10 A Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20IEC60669-1, British Standard EN 60669-1		
	2025 U	2CKA001012A1713	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
delivery form:	Adapter plate APBS to be ordered separate.		

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Cover plate** For card switch. For insert 2025 U. Suitable for cards sized 54 x 86 mm. The inner part of the cover plate is made of light-conducting plastic, so that the card slot is illuminated. Protection class (Device): IP 20		
ivory white	**1792-82**	2CKA001710A3640	10
studio white	**1792-84**	2CKA001710A3641	10
grey metallic [1])	**1789 H-803**	2CKA001751A3019	10

[1]) Surface painted.

	**Switch rocker with marking** For flush-mounted switch 1g1w, 1g2w, intermediate, push switch. DO NOT DISTURB Protection class (Device): IP 20		
ivory white	**1786/11-82**	2CKA001751A2997	10
studio white	**1786/11-84**	2CKA001751A2998	10
grey metallic [1])	**1786/11-803**	2CKA001751A3206	10

[1]) Surface painted.

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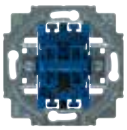
Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** For flush-mounted switch 2g 1w, 2g push switch. DO NOT DISTURB MAKE UP ROOM Protection class (Device): IP 20		
ivory white	**1785/11-82**	2CKA001751A2991	10
studio white	**1785/11-84**	2CKA001751A2992	10
grey metallic [1])	**1785/11-803**	2CKA001751A3204	10

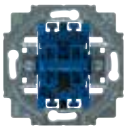
[1]) Surface painted.

	**Switch rocker with marking** As cover for flush-mounted rocker control switch insert, DND/MUR. DO NOT DISTURB MAKE UP ROOM Protection class (Device): IP 20		
ivory white	**1785/11 K-82**	2CKA001751A3214	10
studio white	**1785/11 K-84**	2CKA001751A3209	10
grey metallic [1])	**1785/11 K-803**	2CKA001751A3215	10

[1]) Surface painted.

	**Rocker switch insert DND/MUR [1])** with LED, Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W, Protection class (Device): IP 20 IEC 60669-1		
	2028 UK	2CKA001012A2240	10/100

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Rocker switch insert DND/MUR [1])** with LED, Rated voltage: 24 V Rated current: 6 A Protection class (Device): IP 20 IEC 60669-1		
	2028/12 UK	2CKA001012A2241	10/100

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Bell push-switch DND/MUR 230 V [1])** with LED, Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
ivory	**2029 UC-82**	2CKA001751A3168	1
studio white	**2029 UC-84**	2CKA001751A3170	1
grey metallic [2])	**2029 UC-803**	2CKA001751A3166	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Bell push-switch DND/MUR 24 V [1])** with LED, Rated voltage: 24 V Rated current: 6 A Protection class (Device): IP 20 IEC 60669-1		
ivory	**2029/12 UC-82**	2CKA001751A3236	1
studio white	**2029/12 UC-84**	2CKA001751A3231	1
grey metallic [2])	**2029/12 UC-803**	2CKA001751A3237	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2]) Surface painted.

	**Pull switch [1])** **SP, with normally open contact (operating current)** With 2-metre pull cord, red handle, and red neon indicator. Rated voltage: 250 V~ Rated current: 10 A		
	2020/01 US-101	2CKA001413A1112	10

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Pull switch [1])** **SP, break contact** With 2-metre pull cord, red handle, and red neon indicator. Rated voltage: 250 V~ Rated current: 10 A		
	2020/10 US-101	2CKA001413A1111	10

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	Rocker **open for red pull switch neon indicator** For pull switch 2020/xx US. Protection class (Device): IP 20		
ivory white	**1720-82**	2CKA001731A1915	10
studio white	**1720-84**	2CKA001731A1916	10

	**Cover plate [1])** **for pull switch 2610/6 UC-xx, 2610/6 UJ-xx** With screw-type terminal Protection class (Device): IP 20		
ivory white	**1796-82**	2CKA001753A0309	10
studio white	**1796-84**	2CKA001753A0311	10
grey metallic [2])	**1796-803**	2CKA001753A0307	10

[1]) Exchanging the available cover/cover plate.
[2]) Surface painted.

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Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Three-step rotary switch [1] [2]** **SP, with zero position** With zero position. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
	2710 U	2CKA001101A0918	1/10

[1] Install only in conjunction with wall boxes ø 60 mm.
[2] Not to be mounted in SM box 1701-xxx, 1702-xxx, 1703-xxx.

	**Three-step rotary switch [1] [2]** **SP, without zero position** Without zero position. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
	2710/1 U	2CKA001101A0919	1/10

[1] Install only in conjunction with wall boxes ø 60 mm.
[2] Not to be mounted in SM box 1701-xxx, 1702-xxx, 1703-xxx.

	**Cover plate** **with rotary control, with marking** As cover for flush mounted three-step rotary switch. With zero position. For insert 2710 U. Protection class (Device): IP 20		
ivory white	**2542 DR/01-82**	2CKA001710A3645	10
studio white	**2542 DR/01-84**	2CKA001710A3646	10
grey metallic [1]	**2542 DR/01-803**	2CKA001710A4125	10

[1] Surface painted.

	**Cover plate** **with rotary control, with marking** As cover for flush mounted three-step rotary switch. Without zero position. For insert 2710/1 U. Protection class (Device): IP 20		
ivory white	**2542 DR/02-82**	2CKA001710A3650	10
studio white	**2542 DR/02-84**	2CKA001710A3651	10
grey metallic [1]	**2542 DR/02-803**	2CKA001710A4126	10

[1] Surface painted.

Dimmers

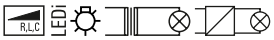
Product	Article-No.	Order-No.	Pack/Qty
	**Comprising Friends of Hue smart switch insert** Comprising 2gang rocker 6736 FoH-8xx for Friends of Hue smart switch. Consisting of 1gang future® linear cover frames. Comprising fixing plate and intermediate ring. Smarter light switches for wireless remote control of Philips Hue lamps For switching and dimming of Philips Hue lamps. For saving, calling up and dimming of a maximum of 2 individual light scenes. Without battery and maintenance-free due to >Energy harvesting<. Can be mounted freely in the room with the enclosed adhesive tape and fixing plate. Requires Philips Hue Bridge (2nd generation square construction type) and Philips Hue app (Version 3.2 or higher). Maximum safety of function by means of Zigbee-Mesh technology.		
	6716 UJ-84-500	2CKA006710A0011	1
	6716 UJ-885-500	2CKA006710A0018	1

	**Friends of Hue smart switch insert** **Wall-mounted transmitter, 2 channel** For Friends of Hue smart switch Rocker 6736 FoH-8xx. Smarter light switches for wireless remote control of Philips Hue lamps For switching and dimming of Philips Hue lamps. For saving, calling up and dimming of a maximum of 2 individual light scenes. Without battery and maintenance-free due to >Energy harvesting<. Maximum safety of function by means of Zigbee-Mesh technology. Requires Philips Hue Bridge (2nd generation; square construction type) and Philips Hue app (Version 3.2 or higher). Combinable with the Busch-Jaeger switch ranges carat®, Busch-dynasty®, pure stainless steel, solo®, Busch-axcent® and future® linear. Can be mounted freely in the room with the enclosed adhesive tape and fixing plate. Including fixing plate for mounting on smooth walls or on switch boxes.		
	6716 U-500	2CKA006710A0014	1

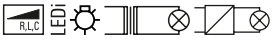
	Rocker For Friends of Hue smart switch insert 6716 U-500. Combinable with the Busch-Jaeger switch ranges carat®, Busch-dynasty®, pure stainless steel, solo®, Busch-axcent® and future® linear.		
ivory white	**6736 FoH-82**	2CKA006730A0134	1
studio white	**6736 FoH-84**	2CKA006730A0136	1
grey metallic [1]	**6736 FoH-803**	2CKA006730A0137	1

[1] Surface painted.

solo®
Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-rotary dimmer [1] [2] [3] [4] [5] [6] [7] [8] [9]** **Flush-mounted, LED, 2-100 W** With rotary control, two-way switch and soft-catch. 2-wire connection (neutral conductor not required) Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. Via mode switch adjustable between leading edge control and trailing edge control. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. With adjustable minimum brightness. Without cover plate. Rated voltage: 230 V~, + 10% / - 10% Rated frequency: 50 Hz/60 Hz Nominal power: 2 - 100 W/VA (retrofit LED loads). Nominal power: 10 - 250 W/VA (non-LED loads). Protection class (Device): IP 20 Temperature range (Device): 0 °C to 35 °CIEC 60669-2-1, British Standard EN 60669-2-1 		
	6523 U-102-500	2CKA006512A0335	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] In case of electronic transformers, 5 % transformer losses.
[4] Also applicable for 1gang 2way installations.
[5] Provided with terminal for net disconnection devices.
[6] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[7] Recommendation: Please use loads and types of one producer.
[8] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[9] A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-rotary dimmer [1] [2] [3] [4] [5] [6] [7] [8] [9]** **UP, LED, 2-400 W** Very small installation depth: < 20 mm Without claws. With rotary control, two-way switch and soft-catch. 2-wire connection (neutral conductor not required) Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. With manually adjustable operating mode: trailing / leading edge control. With adjustable minimum/maximum brightness. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. Without cover plate. Rated voltage: 230 V~, + 10% / - 10% Rated frequency: 50 Hz/60 Hz Nominal power: 2 - 100 W/VA (leading edge control) Nominal power: 2 - 400 W/VA (trailing edge control) Protection class (Device): IP 20 Temperature range (Device): 0 °C to 35 °CIEC 60669-2-1, British Standard EN 60669-2-1 		
	6523 UR-103-500	2CKA006512A0345	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] In case of electronic transformers, 5 % transformer losses.
[4] Also applicable for 1gang 2way installations.
[5] Provided with terminal for net disconnection devices.
[6] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[7] Recommendation: Please use loads and types of one producer.
[8] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[9] A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

solo®
Dimmers

Product	Article-No.	Order-No.	Pack/Qty



END OF LIFE

Busch-rotary dimmer [1] [2] [3] [4]
flush mounted, R, 60-600 W
With rotary control, 2way On-Off switching and soft-catch.
Leading Edge control.
For incandescent lamps and 230 V tungsten halogen lamps.
With adjustable minimum brightness.
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 60 - 600 W
IEC 60669-2-1, British Standard EN 60669-2-1

	2250 U-500	2CKA006515A0848	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] Also applicable for 1gang 2way installations.
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Provided with terminal for net disconnection devices.



Busch-rotary dimmer [1] [2] [3] [4] [5]
flush mounted, RL, 20-500 W
With rotary control, 2way On-Off switching and soft-catch.
Leading Edge control.
For incandescent lamps, 230 V tungsten halogen lamps and low-volt halogen lamps with conventional transformer.
With adjustable minimum brightness.
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 20 - 500 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1

	2247 U-500	2CKA006512A0302	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] Provided with terminal for net disconnection devices.
[4] Also applicable for 1gang 2way installations.
[5] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty



Busch-rotary dimmer [1] [2] [3] [4] [5] [6]
UP, RL, 200-700 W
With rotary control, 2way On-Off switching and soft-catch.
Leading Edge control.
For incandescent lamps, 230 V tungsten halogen lamps and low-volt halogen lamps with conventional transformer.
Short-circuit-proof, overload-protected.
With adjustable minimum brightness.
Without cover plate.
Without claws.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 200 - 700 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1

	6520 U-500	2CKA006520A0227	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] Provided with terminal for net disconnection devices.
[4] Also applicable for 1gang 2way installations.
[5] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[6] Should be mounted in a seperate wallbox.



END OF LIFE

Busch-rotary dimmer [1] [2] [3] [4] [5] [6]
flush mounted, RC, 40-420 W
With rotary control, soft-catch and with trailing edge control.
For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with electronic transformers.
Low-noise, short-circuit-proof, overload-protected.
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 40 - 420 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1

	6513 U-102-500	2CKA006513A0586	1/10

[1] Not suitable with conventional transformers.
[2] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[3] In case of electronic transformers, 5 % transformer losses.
[4] Provided with terminal for net disconnection devices.
[5] Also applicable for 1gang 2way installations.
[6] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

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Dimmers

Product	Article-No.	Order-No.	Pack/Qty
 END OF LIFE	**Busch-rotary dimmer [1] [2] [3] [4] [5]** **flush mounted, RLC, 60-420 W** with soft-catch With intelligence for universal operation. For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers. Short-circuit-proof, overload-protected. Capacity expansion via output-side, parallel connectable load line with a power module 6594 U up to 735 W/VA possible. Operation via rotary-type remote control 6592 U possible, Without cover plate. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Rated power: 60 - 420 W/VA IEC 60669-2-1, British Standard EN 60669-2-1 		
	6591 U-101-500	2CKA006513A0588	1/10

[1] Illuminable with neon lamp 3855. Neon lamp included in delivery with cover plate.
[2] In case of electronic transformers, 5 % transformer losses.
[3] In the case of conventional transformers, take ~20% transformer loss into account.
[4] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[5] Cannot be combined with a 2way switch.

Product	Article-No.	Order-No.	Pack/Qty
 END OF LIFE	**Busch-rotary dimmer, extension [1] [2]** **flush mounted** for connection to 6591 U-101, To be used with Busch-Dimmer®, MDRC 6583. with soft-catch. A maximum of 5 multi-way extensions can be connected to a 6591U-101, Without cover plate. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz 		
	6592 U-500	2CKA006513A0590	1

[1] Control elements 2115-xxx and 6540-xxx.
[2] Required for illuminating the N-connection control element.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-rotary dimmer [1] [2] [3] [4]** **flush mounted, 1-10V** With rotary control. For controlling ballast units for fluorescent lamps with control output 1-10 V DC, control current max. 50 mA DC. For LED control via control gears Without cover plate. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Rated power: 700 W/VA IEC 60669-2-1, British Standard EN 60669-2-1 		
	2112 U-101-500	2CKA006599A2873	1/10

[1] Non-illuminable.
[2] Use cover plates 2115 J-.../2115-.../6540-... .
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Making-current limiters have to be provided in case of too high making currents.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-rotary dimmer [1]** **Flush-mounted, DALI, tunable white** For DALI broadcast service (via central telegram). For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface. With rotary control and ON/OFF push operation. Fool proved. For changing the colour temperature of >tunable white< lamps, which meet DALI Standard IEC 62386-209 (Device Type 8). Colour temperature can then be set between 2,700 K - 6,500 K. Brightness power-on level and backround brightness level adjustable, buffered. With integrated LED illumination for orientation. Color of orientation light adjustable (18 presets and OFF). Up to 5 potentiometers are connectable in parallel. Max. current consumption: 15 mA. Not suitable for combining with other DALI sensors or central units of other manufacturers. For the generation of the DALI voltage a power supply according to IEC 62386 is required; e.g. from Tridonic, Philips, Helvar or BJE article no. 2116/11 U. Max. DALI-cable length: 300 m (1,5 - 2,5 mm²). Without cover plate. Protection class (Device): IP 20 Temperature range (Device): 0 °C to 35 °C		
	2116 U	2CKA006599A3025	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

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Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**2116/11 U**	2CKA006599A3026	1

Busch-rotary dimmer [1])
Flush-mounted, DALI, with internal power supply, tunable white
For DALI broadcast service (via central telegram).
With integrated DALI power adaptor.
For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface.
With rotary control and ON/OFF push operation.
For changing the colour temperature of >tunable white< lamps, which meet DALI Standard IEC 62386-209 (Device Type 8).
Colour temperature can then be set between 2,700 K - 6,500 K.
With electronic short-circuit protection.
With electronic overload protection.
Brightness power-on level and backround brightness level adjustable, buffered.
With integrated LED illumination for orientation.
Color of orientation light adjustable (18 presets and OFF).
Up to 5 potentiometers are connectable in parallel.
Up to 3 potentiometers are connectable in parallel in active mode.
Not suitable for combining with other DALI sensors or central units of other manufacturers.
DALI-voltage: 15,5 V=
Rated current: max. 75 mA
Power consumption: < 2,5 W
Number of DALI-units:
37 in case of one active power-potentiometer
in case of three active power-potentiometer in parallel connection: 111
Active mode: the potentiometer is supporting the necessary control circuit for other DALI-devices.
Passive mode: the potentiometer is suitable as additional operation point.
Max. DALI-cable length: 300 m (1,5 - 2,5 mm²).
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °C

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**2117 U-500**	2CKA006599A2987	1

Busch-rotary dimmer [1])
flush mounted, DALI
For DALI broadcast service (via central telegram).
For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface.
With rotary control and ON/OFF push operation.
Fool proved.
Brightness power-on level and backround brightness level adjustable, buffered.
With integrated LED illumination for orientation.
Color of orientation light adjustable (18 presets and OFF).
Up to 5 potentiometers are connectable in parallel.
Max. current consumption: 15 mA.
Not suitable for combining with other DALI sensors or central units of other manufacturers.
An additional DALI power supply is needed, e.g. by Tridonic, Philips, Helvar or 2117/11 U.
Max. DALI-cable length: 300 m (1,5 - 2,5 mm²).
Without cover plate.
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °C

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**2117/11 U-500**	2CKA006599A2988	1

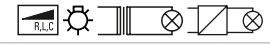
Busch-rotary dimmer [1])
flush mounted, DALI, with internal power supply
For DALI broadcast service (via central telegram).
With integrated DALI power adaptor.
For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface.
With rotary control and ON/OFF push operation.
With electronic short-circuit protection.
With electronic overload protection.
Brightness power-on level and backround brightness level adjustable, buffered.
With integrated LED illumination for orientation.
Color of orientation light adjustable (18 presets and OFF).
Up to 5 potentiometers are connectable in parallel.
Up to 3 potentiometers are connectable in parallel in active mode.
Not suitable for combining with other DALI sensors or central units of other manufacturers.
DALI-voltage: 15,5 V=
Rated current: max. 75 mA
Power consumption: < 2,5 W
Number of DALI-units:
37 in case of one active power-potentiometer
in case of three active power-potentiometer in parallel connection: 111
Active mode: the potentiometer is supporting the necessary control circuit for other DALI-devices.
Passive mode: the potentiometer is suitable as additional operation point.
Max. DALI-cable length: 300 m (1,5 - 2,5 mm²).
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °C

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

solo®
Dimmers

Product	Article-No.	Order-No.	Pack/Qty
 END OF LIFE	**Busch-touch dimmer [1] [2]** **flush mounted, RL, 25-500 W** With light-level memory and leading edge control. For incandescent lamps, 230 V tungsten halogen lamps and low-volt halogen lamps with conventional transformer. Compatible with control covers 6543-xxx-10x. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Parallel operation of several transformers and/or incandescents lamps possible. Without control cover. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Rated power: 25 - 500 W/VA IEC 60669-2-1, British Standard EN 60669-2-1 		
	6560 U-101-500	2CKA006560A1207	1/10

[1] In the case of conventional transformers, take ~20% transformer loss into account.
[2] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-touch dimmer [1] [2] [3] [4]** **flush mounted, RLC, 60-420 W** With light-level memory and intelligence for universal operation. Selectable Soft-ON/OFF function and memory function. Capacity expansion via output-side, parallel connectable load line with a power module 6594 U up to 735 W/VA possible. For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers. Short-circuit-proof, overload-protected. With touch control. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Without control cover. For control cover with control lamp 6543-xxx-10x. For Busch-Remote control IR control cover 6066-xxx-10x. For comfort timer control element 6455-101-500. For Busch-Watchdog 180 flush-mounted Sensor Standard 6810-21x-101. For Busch-Watchdog 180 flush-mounted sensor Comfort II 6800-xxx-104 and 6800-xxx-104M. For Busch-Watchdog Presence tech 6813-xxx-101 und 6813/11-xxx. Combinable with Busch-Watchdog extension insert 6805 U. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Rated power: 60 - 420 W Rated power: 60 - 420 W/VA IEC 60669-2-1, British Standard EN 60669-2-1 		
	6593 U-500	2CKA006590A0171	1/10

[1] In the case of conventional transformers, take ~20% transformer loss into account.
[2] In case of electronic transformers, 5 % transformer losses.
[3] In conjunction with 6800-xxx-104 (M) a Soft Off can be adjusted.
[4] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Dimmer®, capacity booster [1]** **flush mounted, RLC, 200-315 W** The control is effected by a Busch-Universal master dimmer 6593 U or Busch-Universal rotary dimmer 6591U-101 For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers. Can only be installed in conjunction with a cover plate 2114-xxx and 6541-xxx. Without cover plate. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Rated power: 200 - 315 W/VA IEC 60669-2-1, British Standard EN 60669-2-1 		
	6594 U-500	2CKA006590A0172	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1]** **with rotary knob, with indication lamp** Elevated knob. With transparent luminous ring. For Busch-Dimmer®. For inserts 2112 U-101/2247 U/2250 U/6513 U-102/6517 U-10x/ 6519 U/6520 U/6523 U(R)(10x) /6591 U-10x and 6592 U.		
ivory white	**6540-82-102**	2CKA006599A2951	10/100
studio white	**6540-84-102-500**	2CKA006599A3009	10/100
grey metallic [2]	**6540-803-102**	2CKA006599A2980	10

[1] Replacement neon lamp, Art. No. 3855.
[2] Surface painted.

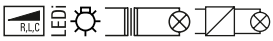
Product	Article-No.	Order-No.	Pack/Qty
	**Control element [1] [2] [3]** **with neon lamp** Can be combined with LED dimmer 6524 U, and 6526 U, Busch-Universal touch-type controller 6550 U-10x, Busch-Memory touch dimmer 6560 U-101, Busch-Universal-Dimmer® 6593 U, Busch-Universal relay insert 6401 U-10x, Busch-Universal 2gang insert 6402 U.		
ivory white	**6543-82-101**	2CKA006599A2831	1/10
studio white	**6543-84-101-500**	2CKA006599A3010	1/10
grey metallic [4]	**6543-803-101**	2CKA006599A2942	1/10

[1] Compatible with previous type 6543-xxx.
[2] Touch-type Controller 6550 U-xxx non-illuminable.
[3] Replacement neon lamp 3857.
[4] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **for cooling element** For Busch-Universal master dimmer power module 6594 U. For KNX room temperature controller object 6109/08.		
ivory white	**6541-82**	2CKA006599A2832	10
studio white	**6541-84**	2CKA006599A2835	10
grey metallic [1]	**6541-803**	2CKA006599A2940	10

[1] Surface painted.

solo®
Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**LED dimmer insert flex, 1gang [1] [2] [3] [4] [5] [6] FM, LED, 3-240 VA** 2-wire connection (neutral conductor not required).Neutral conductor optionally connectable (recommended for the connection of low loads < 10 W/VA). Touch dimmer for switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. With manually adjustable operating mode: trailing / leading edge control. With adjustable minimum brightness. With light-level memory and minimum brightness memory. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. Without control cover. For control element flex, 1gang, 64711. For control element flex, 2gang, 64721. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Rated power: 3-240 VA (LEDi). Rated voltage: 230 V~, +10 % / -10 %. Rated frequency: 50 Hz. Inputs: 1. Outputs: 1x dimming channel. Suitable for: 230 V LEDi, typical (leading edge control). Rated power: 3 - 100 VA. Suitable for: 230 V LEDi, typical (trailing edge control). Rated power: 3 - 240 W. Suitable for: 230 V incandescent lamps, 230 V halogen lamps and low-voltage halogen lamps with conventional transformers or Busch Electronic Transformer. Rated power: 10 - 240 VA.Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm. Mounting depth: 25 mmIEC 60669-2-1, British Standard EN 60669-2-1 		
	64851 U-500	2CKA006500A0013	1

[1] In the case of conventional transformers, take ~20% transformer loss into account.
[2] In case of electronic transformers, 5 % transformer losses.
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Recommendation: Please use loads and types of one producer.
[5] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[6] A liability on the part of Buscah-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

	**Control element, 1 gang flex** Tapping control element, 1gang. Compatible with all free@home flex inserts. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64711-500	2CKA006400A0099	1

	**Control element, 1 gang, flex wireless** Tapping control element, 1gang. For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62711-WL-500	2CKA006200A0281	1

Product	Article-No.	Order-No.	Pack/Qty
	**Flex control element, 2 gang flex** Tapping control element, 2gang For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64721-500	2CKA006400A0101	1

	**Control element, 2 gang, flex wireless** Tapping control element, 2gang For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62721-WL-500	2CKA006200A0283	1

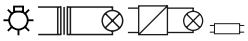
	**Rocker** **1gang, with “Dimmer” icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
ivory white	SRD-1-82	2CKA006220A0520	1
studio white	SRD-1-84	2CKA006220A0151	1
grey metallic	SRD-1-803	2CKA006220A0554	1

	**Rocker** **2gang left, with “Dimmer” icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
ivory white	SRD-2-L-82	2CKA006220A0525	1
studio white	SRD-2-L-84	2CKA006220A0166	1
grey metallic	SRD-2-L-803	2CKA006220A0559	1

	**Rocker** **2gang right, with “Scene” icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
ivory white	SRS-2-R-82	2CKA006220A0528	1
studio white	SRS-2-R-84	2CKA006220A0175	1
grey metallic	SRS-2-R-803	2CKA006220A0562	1

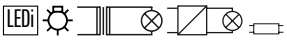
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Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Proximity switch** 3 wire connection (neutral conductor required). Relay insert with proximity sensor. For contactless ON/OFF switching of electric loads, e.g. lights. For switching incandescent lamps, 230 V tungsten halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are actuated via transformers. Switches when detecting an approach at < approx. 5 cm. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V incandescent lamps, 230 V halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are operated via transformers. Rated current: 10 AX Rated power: 2300 W/VA Temperature range (Device): -25 °C to 55 °CBritish Standard EN 60669-2-1 		
	6406 U	2CKA006400A0034	1

	Product	Article-No.	Order-No.	Pack/Qty
	Cover plate **Proximity switch** For proximity switch 6406 U.			
	ivory white	**6476-82**	2CKA006470A0003	10
	studio white	**6476-84**	2CKA006470A0004	10
	grey metallic [1]	**6476-803**	2CKA006470A0006	10

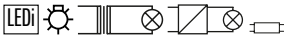
[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Relay insert flex, 1gang [1]** 3 wire connection (neutral conductor required). For switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Comfort switch flex control element 64765-... . For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with extension insert, 64891 U. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 1 Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V- LEDi, typical. Rated power: 300 VA Suitable for: 230 V incandescent lamps/230 V halogen lamps Rated power: 2300 W Suitable for: Low voltage halogen lamps that are operated via transformers. Rated power: 2300 VA Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm Mounting depth: 25 mm 		
	64811 U-500	2CKA006800A3042	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

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Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Relay insert flex, 2gang [1])** 3 wire connection (neutral conductor required). For switching lighting systems. For switching two independent load circuits. For controlling light and ventilation systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Comfort switch flex control element 64765-... . For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with extension insert, 64891 U. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 2 Outputs: 2x Normally open contact, potential-bound Suitable for: 230 V- LEDi, typical. Rated power: 300 VA Suitable for: 230 V incandescent lamps/230 V halogen lamps Rated power: 1840 W Suitable for: Low voltage halogen lamps that are operated via transformers. Rated power: 1150 VA Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm Mounting depth: 25 mm 		
	64821 U-500	2CKA006800A3045	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

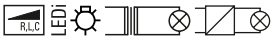
Product	Article-No.	Order-No.	Pack/Qty
	**e-contact insert flex, 1gang [1]) [2])** 2-wire connection (neutral conductor not required) Neutral conductor optionally connectable (recommended for the connection of low loads < 10 W/VA). For switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with extension insert, 64891 U. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 1 Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V- LEDi, typical. Rated power: 3 - 240 VA Suitable for: 230 V incandescent lamps/230 V halogen lamps Rated power: 10 - 240 W Suitable for: Low voltage halogen lamps that are operated via transformers. Rated power: 3 - 240 VA Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm Mounting depth: 25 mm 		
	64814 U-500	2CKA006800A3048	1

[1]) Use only dimmable high-voltage LEDs.

[2]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

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Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**LED dimmer insert flex, 1gang [1] [2] [3] [4] [5] [6]** **FM, LED, 3-240 VA** 2-wire connection (neutral conductor not required) Neutral conductor optionally connectable (recommended for the connection of low loads < 10 W/VA). Touch dimmer for switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. With manually adjustable operating mode: trailing / leading edge control. With adjustable minimum brightness. With light-level memory and minimum brightness memory. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. Without control cover. For control element flex, 1gang, 64711. For control element flex, 2gang, 64721. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Rated power: 3-240 VA (LEDi) Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 1. Outputs: 1x dimming channel. Suitable for: 230 V LEDi, typical (leading edge control). Rated power: 3 - 100 VA. Suitable for: 230 V LEDi, typical (trailing edge control). Rated power: 3 - 240 W. Suitable for: 230 V incandescent lamps, 230 V halogen lamps and low-voltage halogen lamps with conventional transformers or Busch Electronic Transformer. Rated power: 10 - 240 VA. Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm. Mounting depth: 25 mmIEC 60669-2-1, British Standard EN 60669-2-1. 		
	64851 U-500	2CKA006500A0013	1

[1] In the case of conventional transformers, take ~20% transformer loss into account.
[2] In case of electronic transformers, 5 % transformer losses.
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Recommendation: Please use loads and types of one producer.
[5] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[6] A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

Product	Article-No.	Order-No.	Pack/Qty
	**Extension insert flex [1]** 3 wire connection (neutral conductor required). For the extension of the Busch-Comfort switch or presence detector installations. For group control of flex inserts via extension unit communication. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with all flex inserts. Rated voltage: 230 V~, +10 % / -10 %. Rated frequency: 50 Hz. Control/Signal outputs: 1, electronic output, potential-bound. Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm. Mounting depth: 25 mm		
	64891 U-500	2CKA006800A3051	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	Comfort switch flex sensor Movement detector push-button switch combination. For switching lighting systems that depend on brightness and movement. Push switch function possible at all times. Extension of the detection range by means of master/slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. Adjustable operating mode: automatic mode, automatic (motion-controlled) switch-on and switch-off. Adjustable operating mode: semiautomatic, manual switch-on, automatic (timer and movement-controlled) switch-off. Adjustable operating mode: automatic mode, automatic switch-on, manual switch-off. With continuous light/continuous Off function. Adjusting elements on rear side. Surveillance density: 9 sectors with 28 switching segments. Switch-off delay: 1 to 10 min., adjustable. Compatible with all free@home flexTronics inserts. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Please order the respective flush-mounted insert separately. The range specifications refer only to an ambient temperature of 21°C.		
	64765-82-500	2CKA006800A2885	–
	64765-84-500	2CKA006800A2889	–
	64765-803-500	2CKA006800A2891	–

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flex, basic sensor [1] [2] with select-lens** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Compatible with all free@home flex inserts. Adjusting elements on rear side. Extension of the detection range by means of master/slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. With detection display in test mode. Surveillance density: 14 sectors with 56 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 22 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Detection range: frontal: 12 m, lateral: 12 m, Mounting height: 1.1 m. Detection angle: 180 ° Brightness limit value: 5 Lux - 500 Lux Up to daytime operation. Mounting height: 0.8 m - 1.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 35 mm		
ivory white	**64761-82-500**	2CKA006800A2923	1
studio white	**64761-84-500**	2CKA006800A2927	1
grey metallic [3]	**64761-803-500**	2CKA006800A2929	1

[1] Please order the respective flush-mounted insert separately.
[2] The range specifications refer only to an ambient temperature of 21°C.
[3] Surface painted.

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Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flex, comfort sensor [1] [2] with select-lens** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Push switch function possible at all times. In combination with dimmer insert flex: dimming function of lighting and selectable light value storage. With enabling of pre-warning of switch-off for stairwell operation. Compatible with all free@home flex inserts. Adjusting elements on rear side. Extension of the detection range by means of master/ slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. With continuous light/continuous Off function. With detection display in test mode. Surveillance density: 14 sectors with 56 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 22 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Detection range: frontal: 12 m, lateral: 12 m, Mounting height: 1.1 m Detection angle: 180 ° Brightness limit value: 5 Lux - 500 Lux Up to daytime operation Mounting height: 0.8 m - 1.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 35 mm		
ivory white	**64762-82-500**	2CKA006800A2960	1
studio white	**64762-84-500**	2CKA006800A2964	1
grey metallic [3]	**64762-803-500**	2CKA006800A2966	1

[1] Please order the respective flush-mounted insert separately.
[2] The range specifications refer only to an ambient temperature of 21°C.
[3] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flex, comfort sensor [1] [2] with multi-lens** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Push switch function possible at all times. For detection down to the floor. For detection in stairwells. With 4 detection levels. In combination with dimmer insert flex: dimming function of lighting and selectable light value storage. With enabling of pre-warning of switch-off for stairwell operation. Compatible with all free@home flex inserts. Adjusting elements on rear side. Multi-lens: suitable also for mounting heights of 2.20 m. Extension of the detection range by means of master/ slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. With continuous light/continuous Off function. With detection display in test mode. Surveillance density: 54 sectors with 224 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 31 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Detection range: frontal: 8 m, lateral: 7 m, Mounting height: 1.1 m Detection range 2: frontal: 8 m, lateral: 8 m, Mounting height: 2.2 m Detection angle: 180 ° Brightness limit value: 5 Lux - 500 Lux Up to daytime operation Mounting height: 0.8 m - 1.2 m alternative: 2.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 45 mm		
ivory white	**64764-82-500**	2CKA006800A2997	1
studio white	**64764-84-500**	2CKA006800A3001	1
grey metallic [3]	**64764-803-500**	2CKA006800A3003	1

[1] Please order the respective flush-mounted insert separately.
[2] The range specifications refer only to an ambient temperature of 21°C.
[3] Surface painted.

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Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Key Switch Insert [1] [2] [3]** **breaking circuit, 1-pole** For profile semi-cylindrical lock. In switched-on and switched-off status the key can be pulled out in the central position, respectively. Delivered without cylindrical lock. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20IEC60669-1, British Standard EN 60669-1		
	2733 USL-101	2CKA001101A0914	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		
delivery form:	Adapter plate APBS to be ordered separate.		

[1] For installation on British Standard wallboxes please use adapter plate APBS (6599-0-2813). (Depth of box 60 mm.)
[2] Use the cylindrical lock according to the enclosed drawing.
[3] See profile semi-cylindrical lock.

	**Blind switch insert [1] [2]** **SP, switch** With interlock. Rated voltage: 250 V~ Rated current: 10 AX Protection class (Device): IP 20IEC60669-1, British Standard EN 60669-1		
	2000/4 US-500	2CKA001012A2197	10/100
	2020/4 US-500	2CKA001413A1103	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] These blind switches/push buttons safely prevent a switch-over of the running direction being carried out too quickly.

	**Blind switch insert [1] [2]** With rotary knob/switch and push switch. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1, British Standard EN 60669-1		
	DP [3]		
	2712 U	2CKA001101A0534	10
	SP, N, E		
	2713 U	2CKA001101A0542	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		
delivery form:	Adapter plate APBS to be ordered separate.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Blind switches/push switches prevents fast change over between operating directions.
[3] Also suitable for controlling direct voltage drives.

Product	Article-No.	Order-No.	Pack/Qty
	**Blind switch insert [1] [2]** With rotary knob/push button. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC60669-1, British Standard EN 60669-1		
	DP [3]		
	2722 U	2CKA001101A0559	10
	SP, N, E		
	2723 U	2CKA001101A0567	10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Blind switches/push switches prevents fast change over between operating directions.
[3] Also suitable for controlling direct voltage drives.

	**Blind switch/push-switch [1] [2] [3] [4]** For profile semi-cylindrical lock/switch and push-switch. Delivered without cylindrical lock. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC60669-1, British Standard EN 60669-1		
	DP [5]		
	2712 USL-101	2CKA001101A0872	10
	SP, N, E		
	2713 USL-101	2CKA001101A0880	10

[1] For installation on British Standard wallboxes please use adapter plate APBS (6599-0-2813). (Depth of box 60 mm.)
[2] Blind switches/push switches prevents fast change over between operating directions.
[3] Use the cylindrical lock according to the enclosed drawing.
[4] See semi-cylindrical lock.
[5] Also suitable for controlling direct voltage drives.

	**Blind switch insert [1] [2] [3] [4]** For profile semi-cylindrical lock/push-button. Delivered without cylindrical lock. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 British Standard EN 60669-1, IEC60669-1		
	DP [5]		
	2722 USL-101	2CKA001101A0898	10
	SP, N, E		
	2723 USL-101	2CKA001101A0906	10

[1] For installation on British Standard wallboxes please use adapter plate APBS (6599-0-2813). (Depth of box 60 mm.)
[2] Blind switches/push switches prevents fast change over between operating directions.
[3] Use the cylindrical lock according to the enclosed drawing.
[4] See semi-cylindrical lock.
[5] Also suitable for controlling direct voltage drives.

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Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**DIN profile-semi cylindrical lock** Acc. to German Standard DIN 18252. Total length 40 mm for blind switches and push switches For inserts 2712/2713/2722/2723/2733 USL-101 and 2712/2733 SLW-5x. Protection class (Device): IP 20		
	different lock mechanism, with 3 keys		
	0520 PZ-VS	2CKA000470A0013	1/100
	lock mechanism, with 3 keys		
	0521 PZ-GS	2CKA000470A0021	1/100
	**Blind compact timer** Suitable for blind and roller blind drives with mechanical or electronic limit switch shut-off. Without extension unit input. Running time: 3 min N-busbar connection is required. For manual and time-controlled switching of blinds and roller blinds. Memory function for the simple storage of switching times. The controlled devices can be manually operated at any time. Simple setting via display with with segment display and background illumination. Factory pre-set switching times, individual adaptations are possible. 2 switching times per day can be freely adjusted for each day of the week. Automatic switchover from summer time to winter time (switch-off function). Switching times and programs are safely stored in the event of a mains power failure. Power reserve for time and date > 10 years. Simple toggling between manual/automatic/vacation modes. See the associated cover plates 6435-xx. Programming possible only with control element attached and energized. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 2x Normally open contact Rated current: 3 A, cos ϕ 0.5 Rated power: 690 VA Temperature range (Device): 0 °C to 45 °C		
	6422 U-500	2CKA006410A0410	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**Basic blind insert** [1] [2] **2-wire blind insert** Suitable for blind and roller blind drives with mechanical or electronic limit switch shut-off. Suitable for operation without neutral conductor. Without an extension input. For control cover 6430-xx-xxx. For standard timer control element 6456-101. Running time: 3 min Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 2x Normally open contact Rated current: 3 A, cos ϕ 0.5 Rated power: 690 VA Temperature range (Device): 0 °C to 35 °C		
	6418 U-500	2CKA006410A0376	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] N-conductor connection required for operation with control cover 6430-7x, illuminated.

[2] N-conductor connection may be required for operation with blind and roller blind drives with electronic limit switch shut-off. If no N-conductor is available, capacitor set 6498 can be used.

	**Busch-Blind control II switch insert** [1] Suitable for blind, roller blind and awning drives with mechanical or electronic limit switch shut-off. With two 230 V multi-way input terminals (Up/Down) for group control. With operating mode switch for the following modes: normal, louvre, base station, position. With party function (disables the local control unit) in combination with Busch-Blind control II control cover 6430-xx-xxx, 6066-xx-xxx. Wind alarm, cleaning functions can be accommodated via extension input. For control cover 6430-xx-xxx. For IR control element 6066-xx-xxx. For comfort timer control element 6455-101-500. Running time: 3 min Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 2x Normally open contact Rated current: 3 A, cos ϕ 0.5 Rated power: 690 VA Control/Signal outputs: 2 Temperature range (Device): 0 °C to 35 °C		
	6411 U-500-101	2CKA006410A0378	1/10

[1] Compatible with types 6411 U/x.

	**Brightness sensor** For insert 6411U/S-101. With 2 m connecting cable. Measuring range: 15-50,000 lux.		
	6414-101	2CKA006410A0389	1/10
	**Sun sensor** For insert 6411U/S-101. Measuring range: 5-50,000 lux.		
	6482	2CKA006410A0203	1

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Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Short-time timer insert [1]) countdown timer** For time-programmed switching of electrical consumers. With control cover, without cover plate. Minimum timer time: 1 second. Maximum timer time: 9:59:59 hours. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 1x Normally open contact Rated current: 10 A, cos ϕ 1 Rated power: 2300 VA Temperature range (Device): 0 °C to 35 °CIEC 60669-2-1, British Standard EN 60669-2-1		
	6465 U-101-500	2CKA006410A0393	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
Cover frames:	1gang frame 1721 BS-2xG or Dual Box frame 1722 BSDB-2xG.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker with marking** As cover for flush-mounted blind control switch/push switch. For inserts 2000/4 and 2020/4 US. Protection class (Device): IP 20		
ivory white	**1785 JA-82**	2CKA001751A2748	10
studio white	**1785 JA-84-500**	2CKA001751A3088	10/100
grey metallic [1])	**1785 JA-803**	2CKA001751A3020	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate with rotary control, with marking** As cover for flush-mounted blind control switch/push switch. For inserts 2712 U, 2713 U and 2722 U, 2723 U. Protection class (Device): IP 20		
ivory white	**1740-82**	2CKA001710A3154	10
studio white	**1740-84**	2CKA001710A3172	10/100
grey metallic [1])	**1740-803**	2CKA001710A3840	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1]) with labelling field** With marking. For half-cylindrical type switches and blind control switch/push-switch. For inserts 2733 USL-101 and 2712 USL-101, 2713 USL-101, 2722 USL-101, 2723 USL-101. Protection class (Device): IP 20		
ivory white	**1755 SL/PZ-82-101**	2CKA001710A3157	10
studio white	**1755 SL/PZ-84-101**	2CKA001710A3175	10
grey metallic [2])	**1755 SL/PZ-803-101**	2CKA001710A3841	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Control element** For Busch-Blind control II insert 6411 U-101, 6411 U/S-101. For basic blind insert 6418 U. For Busch-Universal 2gang 1way insert 6402 U.		
ivory white	**6430-82-102**	2CKA006430A0327	1/10
studio white	**6430-84-102-500**	2CKA006430A0400	1/10
grey metallic [1])	**6430-803-102**	2CKA006430A0350	1/10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Standard timer control element [1])** For manual and time-controlled switching of blinds and roller blinds. With dusk to dawn program including (Astro-program) Individual Astro adjustment and Astro blocking time. The controlled devices can be manually operated at any time. Simple setting via high-resolution display with background illumination. With preset switching times/date/time. Factory-set switching times can be individually adjusted. Automatic switchover from summer time to winter time (switch-off function). Switching times/programme are safely stored in the event of a mains power failure. Power reserve for time and date > 10 years. Simple toggling between manual/automatic/vacation modes. Programming possible only with control element attached and energized. 2 switching times per day can be user-defined for each day of the week. Astro switching times and switching times can be combined. For basic blind insert 6418 U. Temperature range (Device): 0 °C to 35 °C		
	6456-101	2CKA006410A0398	1/10

[1]) See respective cover plates 6435-xx.

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Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Comfort timer control element** [1] For manual and time-controlled switching of blinds, roller blinds, awnings, lighting and other electrical devices. With dusk to dawn program including (Astro-program) Individual Astro adjustment and Astro blocking time. The controlled devices can be manually operated at any time. Simple setting via high-resolution display with background illumination. With preset switching times/date/time. Factory-set switching times can be individually adjusted. Automatic switchover from summer time to winter time (switch-off function). Switching times/programme are safely stored in the event of a mains power failure. Power reserve for time and date > 10 years. Simple toggling between manual/automatic/vacation modes. Combined with Busch-Blind control II insert 6411 U/S-101, sun protection and twilight function. Freely adjustable temperature and brightness-dependent sun protection function. Freely adjustable twilight function. User-adjustable running times for blinds and air conditioning. Programming possible only with control element attached and energized. 6 switching times per day can be user-defined for each day of the week. Astro switching times and switching times can be combined. When combined with LED dimmer 6524 U, Busch-Universal master dimmer insert 6593 U or Busch-Memory touch-type controller 6550 U-101, the brightness of the lighting can be adjusted for each ON switching time. For Busch-Blind control II insert 6411 U-101, 6411 U/S-101. For Busch-Universal relay switch insert 6401 U-102. For Busch-Universal master dimmer insert 6593 U. For LED dimmer insert 6524 U and 6526 U.. For Busch-Memory touch-type controller 6550 U-101. Temperature range (Device): 0 °C to 35 °C		
	6455-101-500	2CKA006410A0399	1/10

[1] See respective cover plates 6435-xx.

Product	Article-No.	Order-No.	Pack/Qty
	**Time switch mechanism 16 A** [1] [2] **DP, break contact for staircases, exterior lighting, fans, etc.** Running time: 15 min For time-programmed switching of electrical consumers. Schaltkontakte (2-polig) schließen, wenn die Laufzeit eingestellt und gestartet wird. Schaltkontakte (2-polig) öffnen, wenn die eingestellte Zeit abgelaufen ist. Rated voltage: 230 V~, +10 % / -10 % Rated current: 16 A, cos ϕ 0.25 Protection class (Device): IP 20		
	1070 U	2CKA001043A0025	1/10

[1] For screw-fixing only
[2] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Time switch mechanism 16 A** [1] [2] **DP, break contact for staircases, exterior lighting, fans, etc.** Running time: 120 min For time-programmed switching of electrical consumers. Schaltkontakte (2-polig) schließen, wenn die Laufzeit eingestellt und gestartet wird. Schaltkontakte (2-polig) öffnen, wenn die eingestellte Zeit abgelaufen ist. Rated voltage: 230 V~, +10 % / -10 % Rated current: 16 A, cos ϕ 0.25 Protection class (Device): IP 20		
	1071 U	2CKA001043A0124	1

[1] For screw-fixing only
[2] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Cover plate** For comfort timer control element 6455-101-500. For standard timer control element 6456-101. For room thermostats 1098 U-101 and 1098 UF-101. For short-time timer 6465 U-101. For Busch-CO2 sensor 1091 U-500. For blind compact timer 6422 U.		
ivory white	**6435-82**	2CKA006430A0304	10
studio white	**6435-84**	2CKA006430A0306	10
grey metallic [1]	**6435-803**	2CKA006430A0351	10

[1] Surface painted.

	**Cover plate** **with rotary knob, with marking** For Busch-Timer insert 1070 U. Running time: 15 min Protection class (Device): IP 20		
ivory white	**1770-82-103**	2CKA001753A0256	10
studio white	**1770-84-103**	2CKA001753A0258	10
grey metallic [1]	**1770-803-103**	2CKA001753A0254	10

[1] Surface painted.

	**Cover plate** **with rotary knob, with marking** For Busch-Timer insert 1071 U. Running time: 120 min Protection class (Device): IP 20		
ivory white	**1771-82-103**	2CKA001753A0266	10
studio white	**1771-84-103**	2CKA001753A0301	10
grey metallic [1]	**1771-803-103**	2CKA001753A0264	10

[1] Surface painted.

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Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**blind insert, 1 gang, 2 way flex** 3 wire connection (neutral conductor required). For the control of roller shutters, blind and awning motors with mechanical or electronic limit switch shut-off. Group formation via extension input possible. Operation also via conventional push buttons (2020 US non-illuminated/2021/6 UK) possible. Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL.		
	64831 U-500	2CKA006400A0096	1
	**Extension insert flex** 3 wire connection (neutral conductor required). For the extension of the Busch-Comfort switch or presence detector installations. For group control of flex inserts via extension unit communication. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with all flex inserts.		
	64891 U-500	2CKA006800A3051	1
	**Control element, 1 gang flex** Tapping control element, 1gang. Compatible with all free@home flex inserts. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64711-500	2CKA006400A0099	1
	**Control element, 1 gang, flex wireless** Tapping control element, 1gang. For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@ home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62711-WL-500	2CKA006200A0281	1
	**Control element, 2 gang flex** Tapping control element, 2gang For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64721-500	2CKA006400A0101	1

Product	Article-No.	Order-No.	Pack/Qty
	**Control element, 1 gang, flex wireless** Tapping control element, 2gang For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@ home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62721-WL-500	2CKA006200A0283	1
	**Weather Station** For recording and transmitting of brightness, temperature, wind speed and rain. Weather data can be linked with actuators to automatically control functions. Weather data can be visualized in the free@home web interface and the free@home app. Remote operation via the Bluetooth and smartphone/tablet app.		
	WS-1-WL.1	2CKA006200A0297	1
	**Standard Inputs** WS-1/A1.1 Mast adapter weather station		
	WS-1/A1.1	2CKA006200A0848	1
	**Rocker** **1gang, with “Blind” icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
ivory white	SRB-1-82	2CKA006220A0518	1
studio white	SRB-1-84	2CKA006220A0145	1
grey metallic	SRD-1-884	2CKA006220A0552	1
	**Rocker** **2gang left/right, “Blind” icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
ivory white	SRB-2-82	2CKA006220A0523	1
studio white	SRB-2-84	2CKA006220A0160	1
grey metallic	SRB-2-803	2CKA006220A0557	1
	**Rocker** **2gang right, with “Scene” icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
ivory white	SRS-2-R-82	2CKA006220A0528	1
studio white	SRS-2-R-84	2CKA006220A0175	1
grey metallic	SRS-2-R-803	2CKA006220A0562	1

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Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet with screwless terminals** DP (2 P + E) Rated voltage: 250 V~ Supply voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
ivory white	**20 EUC-82-500**	2CKA002011A6214	10/100
studio white	**20 EUC-84-500**	2CKA002011A6207	10/100
grey metallic [1])	**20 EUC-803-500**	2CKA002011A6216	10/100

[1]) Surface painted.

	**SCHUKO® socket outlet [1])** **shuttered** With screwless terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
ivory white	**20 EUCKS-82-500**	2CKA002013A5376	10/100
studio white	**20 EUCKS-84-500**	2CKA002013A5372	10/100
grey metallic [2])	**20 EUCKS-803**	2CKA002013A5297	10/100

[1]) Increased shock protection .
[2]) Surface painted.

	**SCHUKO® socket outlet without claw [1])** **shuttered** Without claws. With screwless terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
ivory white	**20 EUCRB-82**	2CKA002013A5438	10/100
studio white	**20 EUCRB-84-500**	2CKA002013A5441	10/100
grey metallic [2])	**20 EUCRB-803**	2CKA002013A5436	10/100

[1]) Increased shock protection .
[2]) Surface painted.

	**SCHUKO® socket outlet [1]) [2])** **shuttered** With screw-type terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
ivory white	**2300 EUCB-82**	2CKA002013A5449	10/100
studio white	**2300 EUCB-84**	2CKA002013A5451	10/100
grey metallic [3])	**2300 EUCB-803**	2CKA002013A5447	10/100

[1]) Increased shock protection .
[2]) With screw-type terminals
[3]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1]) [2])** **shuttered** With screw-type terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A		
ivory white	**23 EUCB-82**	2CKA002013A5475	10
studio white	**23 EUCB-84**	2CKA002013A5477	10/100
grey metallic [3])	**23 EUCB-803**	2CKA002013A5473	10

[1]) Increased shock protection .
[2]) With screw-type terminal for rigid and flexible wires
[3]) Surface painted.

	**SCHUKO® USB socket outlet, 2gang [1]) [2]) [3]) [4])** **shuttered** For connecting electric loads. DP (2 P + E) With screwless terminals. For supply and support of mobile devices via USB-cable. With two USB type A outputs. Simultaneous charging via USB connection and use of the SCHUKO® socket outlet. Support of loading protocol on the USB-A connection: Apple MFI with 2.4 A and BC 1.2 with 1.5 A. With electronic short-circuit protection. With electronic overload protection. Rated voltage: 230 V~, +10 % / -10 % Secondary: 5 V-, +5 % / -5 % Rated frequency: 50 Hz - 60 Hz Outputs: 2x USB charging interface Suitable for: SCHUKO® socket outlet Rated current: 16 A Suitable for: In case one output is used: Rated current: 2.4 A Output voltage: 5 V- Suitable for: In case two output are used: Rated current: 1.2 A Output voltage: 5 V- Rated power: 12 W Protection class (Device): IP 20, SELV Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 58 mm Mounting depth: 39.5 mm		
ivory white	**20 EUCB2USB-82-500**	2CKA002011A6270	1/10
studio white	**20 EUCB2USB-84-500**	2CKA002011A6274	1/10
grey metallic [5])	**20 EUCB2USB-803-500**	2CKA002011A6276	1/10

[1]) Increased shock protection .
[2]) Connecting terminals approved in accordance with VDE 0620-1 as connectors.
[3]) No data transfer.
[4]) When cleaning the device, use dust cover 2098 for the USB-A connection.
[5]) Surface painted.

	**Busch-Socket outlet [1])** **shuttered** With screwless terminals. DP (2 P + E) With eject mechanism. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
ivory white	**20 EUCBDR-82**	2CKA002013A5416	10
studio white	**20 EUCBDR-84**	2CKA002013A5418	10
grey metallic [2])	**20 EUCBDR-803**	2CKA002013A5414	10

[1]) Increased shock protection .
[2]) Surface painted.

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Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet steplight® [1] With night orientation light** with separate connection cables for switch contact. with LED, Shuttered. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
ivory white	**20 EUCBLI-82**	2CKA002013A5292	1
studio white	**20 EUCBLI-84**	2CKA002013A5294	1
grey metallic [2]	**20 EUCBLI-803**	2CKA002013A5458	1

[1] Connecting terminals approved in accordance with VDE 0620-1 as connectors.
[2] Surface painted.

	**SCHUKO® socket outlet [1] with labelling field** DP (2 P + E) Size of labelling field: 60 x 9 mm. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
ivory white	**20 EUN-82**	2CKA002011A3726	10
studio white	**20 EUN-84-500**	2CKA002011A6209	10/100
grey metallic [2]	**20 EUN-803**	2CKA002011A3876	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Surface painted.

	**SCHUKO® socket outlet [1] [2] with label field, increased shock protection** Size of labelling field: 60 x 9 mm. With screwless terminals. DP (2 P + E) Shuttered. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
ivory white	**20 EUCNB-82**	2CKA002013A5428	10
studio white	**20 EUCNB-84-500**	2CKA002013A5431	10/100
grey metallic [3]	**20 EUCNB-803**	2CKA002013A5426	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Increased shock protection .
[3] Surface painted.

	**SCHUKO® socket outlet [1] with marking "EDV"** With screwless terminals. DP (2 P + E) Shuttered. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
ivory white	**20 EUCKS/DV-82**	2CKA002013A5267	10
studio white	**20 EUCKS/DV-84**	2CKA002013A5268	10
grey metallic [2]	**20 EUCKS/DV-803**	2CKA002013A5462	10/100

[1] Increased shock protection .
[2] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Protector® SCHUKO® socket outlet [1] with overvoltage protection** DP (2 P + E) With integrated and external signalling contact. ISN = 5 kA Device protection for technical sensitive equipment such as computer, entertainment electronics and building management systems. Effectively reduces overvoltage peaks occurring between the sub-distribution switch board and SCHUKO® socket outlet. Arrestor test class: classification Type 2 Rated voltage: 250 V~ Secondary: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
ivory white	**2310 EUGL/VA-82-11**	2CKA002011A3831	1
studio white	**2310 EUGL/VA-84-11**	2CKA002011A3833	1
grey metallic [2]	**2310EUGL/VA-803-11**	2CKA002011A3877	1
red RAL 3020	**2310 EUGL/ VA-12-82-101**	2CKA002011A6257	1/10

[1] Connecting terminals approved in accordance with VDE 0620-1 as connectors.
[2] Surface painted.

	**SCHUKO® socket outlet with LED control light** Shuttered. DP (2 P + E) With transparent lens. LED colour green. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
ivory white	**20 EUCBL-82**	2CKA002013A5284	10
studio white	**20 EUCBL-84**	2CKA002013A5286	10
grey metallic [1]	**20 EUCBL-803**	2CKA002013A5456	10

[1] Surface painted.

	**SCHUKO® socket outlet with marking** With screwless terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
Green, RAL 6032	**20 EUC-13-82-101**	2CKA002011A6260	10
orange RAL 2004	**20 EUC-14-82**	2CKA002011A3723	10

	**Busch-Object socket outlet [1] shuttered** With screwless terminals. DP (2 P + E) Incl. Cover plate with extract mechanism. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
ivory white	**20 EUAB-82**	2CKA002013A5405	10
studio white	**20 EUAB-84**	2CKA002013A5407	10
grey metallic [2]	**20 EUAB-803**	2CKA002013A5403	10

[1] Increased shock protection .
[2] Surface painted.

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Product	Article-No.	Order-No.	Pack/Qty
	**FI-SCHUKOMAT, SCHUKO® socket outlet (RCD) [1] [2] [3]** **with earth leakage circuit breaker** Shuttered. DP cut off (P,N) Without PE monitoring. With output terminals for connecting and protecting downsream SCHUKO® socket outlets. Rated fault current: 30 mA. With fixing claws. Rated frequency: 45-60 Hz. Rated voltage: 230 V~ Rated current: 16 A Protection class (Device): IP 20 Temperature range (Device): -25 °C to 40 °C		
ivory white	**3120 EUCB-82**	2CKA003116A0661	1
studio white	**3120 EUCB-84**	2CKA003116A0662	1
grey metallic [4]	**3120 EUCB-803**	2CKA003116A0666	1/10

[1] Connecting terminals approved in accordance with VDE 0620-1 as connectors.
[2] Protective measure according to VDE 0100; can be proven or checked using the Profitest 0100S testing device, for example.
[3] Increased shock protection .
[4] Surface painted.

	**Buschmat® FI - Insert [1]** **with earth leakage breaker with connecting conductor** Protection of downstream consumers. Rated fault current: 30 mA. DP cut off (P,N) With fixing claws. Rated frequency: 45-60 Hz. Rated voltage: 230 V~ Rated current: 16 A Protection class (Device): IP 20 Temperature range (Device): -25 °C to 40 °C		
ivory white	**3151 UC-82**	2CKA003117A0005	1/10
studio white	**3151 UC-84**	2CKA003117A0006	1/10
grey metallic [2]	**3151 UC-803**	2CKA003117A0008	1/10

[1] Protective measure according to VDE 0100; can be proven or checked using the Profitest 0100S testing device, for example.
[2] Surface painted.

	**SCHUKO® socket outlet** **with hinged lid** With screwless terminals. DP (2 P + E) Hinged lid notches when opened. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
ivory white	**20 EUK-82**	2CKA002018A1465	10
studio white	**20 EUK-84-500**	2CKA002018A1509	10/100
grey metallic [1]	**20 EUK-803**	2CKA002018A1493	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1]** **with hinged lid and internal increased shock protection** Shuttered. With screwless terminals. DP (2 P + E) with hinged lid Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
ivory white	**20 EUKB-82**	2CKA002018A1518	10/100
studio white	**20 EUKB-84**	2CKA002018A1520	10/100
grey metallic [2]	**20 EUKB-803**	2CKA002018A1516	10/100
ivory [3]	**20 EUKBR-82**	2CKA002018A1527	10/100
studio white [3]	**20 EUKBR-84**	2CKA002018A1529	10/100
grey metallic [2] [3]	**20 EUKBR-803**	2CKA002018A1525	10/100

[1] Increased shock protection .
[2] Surface painted.
[3] Without claw.

	**SCHUKO® socket outlet [1] [2] [3]** **with hinged lid and labelling field** Shuttered. With screwless terminals. DP (2 P + E) with hinged lid Size of labelling field: 60 x 9 mm. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
ivory white	**20 EUKNB-82**	2CKA002018A1538	10/100
studio white	**20 EUKNB-84**	2CKA002018A1540	10/100
grey metallic [4]	**20 EUKNB-803**	2CKA002018A1536	10/100

[1] Increased shock protection .
[2] The labels are clamped under the labelling field.
[3] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[4] Surface painted.

	**SCHUKO® socket outlet [1]** **with hinged lid and lock** Shuttered. With screwless terminals. DP (2 P + E) With different lock mechanism. Delivery includes 2 keys. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
ivory white	**20 EUKNBSL-82**	2CKA002018A1559	10
studio white	**20 EUKNBSL-84**	2CKA002018A1563	10
grey metallic [2]	**20 EUKNBSL-803**	2CKA002018A1555	10

[1] Increased shock protection .
[2] Surface painted.

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Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1]) with hinged lid and lock** Shuttered. With screwless terminals. DP (2 P + E) With evenly engaging lock. Delivery includes 2 keys. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
ivory white	**20 EUKNBSL-82-101**	2CKA002018A1560	10
studio white	**20 EUKNBSL-84-101**	2CKA002018A1564	10
grey metallic [2])	**20 EUKNBSL-803-101**	2CKA002018A1556	10

[1]) Increased shock protection .
[2]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1]) [2]) [3]) with hinged lid, labelling field and LED control light** Shuttered. With screwless terminals. DP (2 P + E) with hinged lid Size of labelling field: 60 x 9 mm. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
ivory white	**20 EUKNBL-82**	2CKA002018A1549	10/100
studio white	**20 EUKNBL-84**	2CKA002018A1551	10/100
grey metallic [4])	**20 EUKNBL-803**	2CKA002018A1547	10/100

[1]) Increased shock protection .
[2]) The labels are clamped under the labelling field.
[3]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[4]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Socket outlet [1]) shuttered** Without claws. With screw-type terminals. DP Suitable for 1gang flush-mounted boxes. Rated voltage: 250 V~ Rated current: 16 A		
ivory white	**2300 UCRKS-82-503**	2CKA002113A0510	10
studio white	**2300 UCRKS-84-503**	2CKA002113A0511	10
grey metallic [2])	**2300 UCRKS-803-503**	2CKA002113A5341	10

[1]) Increased shock protection .
[2]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**USB socket outlet earthing pin, 2gang [1]) [2]) [3]) shuttered** For connecting electric loads. DP (2 P + E) With screwless terminals. For supply and support of mobile devices via USB-cable. With two USB type A outputs. Simultaneous charging via USB connection and use of the SCHUKO® socket outlet. Support of loading protocol on the USB-A connection: Apple MFI with 2.4 A and BC 1.2 with 1.5 A. With electronic short-circuit protection. With electronic overload protection. Suitable for the countries: Belgium, Poland, Czech Republic. Rated voltage: 230 V~, +10 % / --10 % Secondary: 5 V-, +5 % / -5 % Rated frequency: 50 Hz - 60 Hz Outputs: 2x USB charging interface Suitable for: Earth pin socket Rated current: 16 A Suitable for: In case one output is used: Rated current: 2.4 A Suitable for: In case two output are used: Rated current: 1.2 A Output voltage: 5 V- Rated power: 12 W Protection class (Device): IP 20, SELV Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 58 mm Mounting depth: 39.5 mm		
ivory white	**20 MUCB2USB-82-500**	2CKA002017A1889	1/10
studio white	**20 MUCB2USB-84-500**	2CKA002017A1891	1/10
grey metallic [4])	**20 MUCB2USB-803-500**	2CKA002017A1892	1/10

[1]) Socket outlet with integrated child protection. Replaces the usual term"...with child protection".
[2]) No data transfer.
[3]) When cleaning the device, use dust cover 2098 for the USB-A connection.
[4]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Shaver socket outlet** For installation into FM 2gang wall box 3030 and 3031. Rated voltage: 240 V, +10 % / -10 % Output voltage: 115 V, +10 % / -10 % Secondary: 240 V, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Rated power: 20 VA		
ivory	**2332 UJBS-82**	2CKA002130A0290	1
studio white	**2332 UJBS-84**	2CKA002130A0292	1
grey metallic [1])	**2332 UJBS-803**	2CKA002130A0296	1

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Flush-mounting wall box, 2gang** For shaver socket outlet 2332 UJBS-8xx. Protection class (Device): IP 20 Dimensions: (L x W x D): 135 mm x 75 mm x 47 mm		
	3030	2CKA001741A0067	4

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Product	Article-No.	Order-No.	Pack/Qty
	**Flush-mounting cavity wall box, 2gang** For shaver socket outlet 2332 UJBS-8xx. Protection class (Device): IP 20 Dimensions: (L x W x D): 142 mm x 75 mm x 45 mm		
	3031	2CKA001741A0068	4
	**13 A Switched socket outlet** 1gang With screw-type terminals. SP switched Without claws. Only for mounting in VDE flush-mounted wallboxes CFB 122 and CFBM 122. Rated voltage: 250 V~ Rated current: 13 ABS 1363: part2		
ivory	**2190 EUC-82**	2CKA002190A0213	10/100
studio white	**2190 EUC-84**	2CKA002190A0215	10/100
grey metallic [1])	**2190 EUC-803**	2CKA002190A0224	10/100

[1]) Surface painted.

	**2gang European/American socket outlet, 10A** 2gang With screw-type terminals. SP switched Without claws. Rated voltage: 250 V~ Rated current: 10 A		
	delivery on request		
ivory white	**2192-02 UC-82-500**		
	delivery on request		
studio white	**2192-02 UC-84-500**		
	**Socket outlet [1])** **with earth pin** With screwless terminals. Suitable for the countries: Belgium, Poland, Czech Republic. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A		
	20 M-500	2CKA002017A0854	10/100

[1]) Insert can be used for all covers 2399 UCKS-xx.

	**Socket outlet cover frame shuttered** For socket outlet insert 20 M-500. Rated voltage: 250 V~		
ivory	**2399 UCKS-82**	2CKA002099A0211	10
studio white	**2399 UCKS-84**	2CKA002099A0214	10
grey metallic [1])	**2399 UCKS-803**	2CKA002099A0253	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Socket outlet** **with earthing pin** With screwless terminals. Suitable for the countries like Poland, Czech Republic. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
ivory white	**20 MUC-82-500**	2CKA002017A0785	10/100
studio white	**20 MUC-84-500**	2CKA002017A0786	10/100
	**Socket outlet [1])** **with earth. pin/increased shock protection** With screwless terminals. Shuttered. Suitable for the countries like Poland, Czech Republic. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
ivory white	**20 MUCKS-82-500**	2CKA002017A0806	10
studio white	**20 MUCKS-84-500**	2CKA002017A0807	10
grey metallic [2])	**20 MUCKS-803-500**	2CKA002017A0852	10

[1]) Socket outlet with integrated child protection. Replaces the usual term"...with child protection".
[2]) Surface painted.

	**Chinese socket outlet, 10 A** 1gang With screw-type terminals. Without claws. According to Chinese standard: GB 2099.1 Rated voltage: 250 V~ Rated current: 10 A Rated current: 10 A		
	delivery on request		
ivory white	**2193 EUC/10-82-500**		
	delivery on request		
studio white	**2193 EUC/10-84-500**		
	**Chinese socket outlet, 16 A** 1gang With screw-type terminals. Without claws. According to Chinese standard: GB 2099.1 Rated voltage: 250 V~ Rated current: 16 A		
	delivery on request		
ivory white	**2196 EUC/16-82-500**		
	delivery on request		
studio white	**2193 EUC/16-84-500**		
	**Chinese and Euro American socket outlet, 10 A** 1gang With screw-type terminals. Without claws. According to Chinese standard: GB 2099.1 Rated voltage: 250 V~ Rated current: 10 A		
	delivery on request		
ivory white	**2195 EUC/10-82-500**		
	delivery on request		
studio white	**2195 EUC/10-84-500**		

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Product	Article-No.	Order-No.	Pack/Qty
	**International socket outlet 13A [1])** 1gang With screw-type terminals. Without claws. Rated voltage: 250 V~ Rated current: 13 A		
	delivery on request		
ivory white	**2197 EUC-82-500**		
	delivery on request		
studio white	**2197 EUC-84-500**		

[1]) Usage may be restricted in certain countries.

	**Euro American socket outlet with earth, 16 A** 1gang With screw-type terminals. Without claws. Rated voltage: 250 V~ Rated current: 16 A		
	delivery on request		
ivory white	**2196 EUC-82-500**		
	delivery on request		
studio white	**2196 EUC-84-500**		

Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**WLAN access point, flush-mounted [1]) [2])** **power supply from mains power** Operation as WLAN access point for the connection of WLAN terminal devices to the LAN. Operation as WLAN repeater for extending the transmission range of a WLAN. Operation as WLAN adapter for integrating Ethernet terminal devices into a WLAN. Supports WLAN standards IEEE 802.11b/g/n with 2.4 GHz; integrated WLAN antenna. Backward connection of an Ethernet cable via screw terminals (10/100 Mbit/s). Front-side Ethernet connection via a RJ45 socket (10/100 Mbit/s). The three connections (WLAN, Ethernet/screw terminals and Ethernet/RJ45)can be used in parallel via the integrated switch. Power supply via 2-pole connecting terminal. Nominal voltage: 100 - 240 V~ For mounting in commercially available deep flush-mounted and hollow-wall boxes. Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20 Dimensions: (L x W x D): 80 mm		
	8186/31-101-500	2CKA008100A0359	1

[1]) Suitable for cover plate 1803-xxx.
[2]) Not to be mounted in SM box 1701-xxx, 1702-xxx, 1703-xxx.

	**Reset magnet** For resetting WLAN access point UP 8186/31-101 and WLAN access point PoE UP 8186/41 to the factory settings. Protection class (Device): IP 20		
	8186/11-500	2CKA008100A0361	1

	**Universal data connection unit, cat. 3 [1])** **1gang** With down-leading outlet. For 8-pole plug, RJ 11/12, RJ 45, ISDN capability, Cat. 3. Design according to IEC 60 603-7-2:2007. Screw contacts With claw. Protection class (Device): IP 20		
	0213-500	2CKA000230A1549	10/100

[1]) Suitable for cover plate 1803-xxx.

	**Universal data connection box with down-leading outlet [1])** **2gang internally parallel connected** With down-leading outlet. For 8-pole plug, RJ 11/12, RJ 45, ISDN capability, Cat. 3. Design according to IEC 60 603-7-2:2007. Screw contacts With claw. Protection class (Device): IP 20		
	0214	2CKA000230A0235	10/100
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		

[1]) Suitable for cover plate 1803-02-xxx.

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Product	Article-No.	Order-No.	Pack/Qty
	**Universal data connection box with down-leading outlet [1])** **2 x outlets, 8/8-pole** With down-leading outlet. For 8-pole plug, RJ 11/12, RJ 45, ISDN capability, Cat. 3. Design according to IEC 60 603-7-2:2007. Screw contacts With claw. Protection class (Device): IP 20		
	0215	2CKA000230A0243	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		

[1]) Suitable for cover plate 1803-02-xxx.

	**Data-connection box, RJ 45, cat. 6a iso, shielded [1])** **1gang** With down-leading outlet and LSA self-cutting clamps. RJ-45 terminals for networks according to Cat 6A, Class EA (10 Gbits/s / 500MHz). Equates to cat. 6a, Class EA according to ISO/IEC 11801:2011-06. Terminal marking A and B according to TIA/EIA-568-B.2. Typ according to EN 60 603-7-51:2011-01. Shielding according to DIN EN 55022, Class B. Up to 500 MHz on all pairs of wires. Suitable for 10-Gigabit Ethernet. Suitable for PoE+ according to IEEE 802.3at, >- 1.000 contact durability. Flex cable entries from all sides without buckles. Earthing of housing via 6,3 mm blade terminal at the back possible. Re-embedded proofed. Suitable for Mix-and-Match operation. Suitable for RJ 11, RJ 12 und RJ 45. For data cables with a diameter of 6 -10 mm. For wires of AWG 24-22. For trunk systems, flush-mounted wall boxes and underfloor systems. Without claws. Mounting depth: 31 mm. Protection class (Device): IP 20		
	0218/11-101	2CKA000230A0409	1/10

[1]) Suitable for cover plate 1803-xxx.

Product	Article-No.	Order-No.	Pack/Qty
	**Data-connection box, RJ 45, cat. 6a iso, shielded [1])** **2 x outlets, 8/8-pole** With down-leading outlet and LSA self-cutting clamps. RJ-45 terminals for networks according to Cat 6A, Class EA (10 Gbits/s / 500MHz). Equates to cat. 6a, Class EA according to ISO/IEC 11801:2011-06. Terminal marking A and B according to TIA/EIA-568-B.2. Typ according to EN 60 603-7-51:2011-01. Shielding according to DIN EN 55022, Class B. Up to 500 MHz on all pairs of wires. Suitable for 10-Gigabit Ethernet. Suitable for PoE+ according to IEEE 802.3at, >- 1.000 contact durability. Flex cable entries from all sides without buckles. Earthing of housing via 6,3 mm blade terminal at the back possible. Re-embedded proofed. Suitable for Mix-and-Match operation. Suitable for RJ 11, RJ 12 und RJ 45. For data cables with a diameter of 6 -10 mm. For trunk systems, flush-mounted wall boxes and underfloor systems. For wires of AWG 24-22. Without claws. Mounting depth: 31 mm. Protection class (Device): IP 20		
	0218/12-101	2CKA000230A0411	1/10

[1]) Suitable for cover plate 1803-02-xxx.

	**Universal data connection box 8(6)/ telephone unit 6F+N - connection box [1])** **2 x 6-pole** with straight outlet, with screw contacts, Universal data-connection boxes: RJ 11/12, ISDN capable Cat. 3 in acc. with IEC 603-7/German Standard DIN EN 60603-7, Telecommunication outlet (telephone unit): for 1 telephone, 1 auxiliary device or 1 data transmission unit, With claw. Protection class (Device): IP 20		
white	**UAE 8(6)TAE 6 F+N**	2CKA000230A0381	10/100

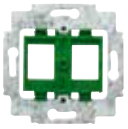
[1]) Suitable for cover plate 2539-xxx, 1766-xxx and 1746-2xx-FN.

	**Satellite co-axial outlets** **2 connectors/dead-end feeder** Broadband technology 5-2.400 MHz For DVB-T, satellite and broad-band cable systems. For analogue and digital transmission. With claw. Minimal installation depth, class A. Protection class (Device): IP 20		
	0230-101	2CKA000230A0250	10/100

	**Antenna socket insert Radio/TV** **2 connectors/loop through type** Broadband technology 5-2.400 MHz For DVB-T, satellite and broad-band cable systems. For analogue and digital transmission. With claw. Minimal installation depth, class A. Protection class (Device): IP 20		
	0231-101	2CKA000230A0268	10/100

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Product	Article-No.	Order-No.	Pack/Qty
	**Satellite co-axial outlets Radio/TV/SAT 3gang dead-end feeder** Broadband technology 47-2.150 MHz. SAT connection designed as screwable F-male plug. with remote feed via F-bush For DVB-T and broadband-cable-systems. For analogue and digital transmission. With claw. Minimal installation depth, class A. Protection class (Device): IP 20		
	0232-101-500	2CKA000230A0463	10/100
	**Terminating resistor 75 Ohm** Protection class (Device): IP 20		
	0239	2CKA000230A0201	10/100
	**Mounting plate [1] [2] with green insert** For 2 modular jack inserts. For systems: CommScope (AVAYA / AT&T / Lucent Technologies), GigaSPEED, PowerSUM, 360 GS 10E bis MGS 600-BK, M1 BH-xx, MPS 100E-xx. With R&M adapter R310694 suitable for R&M connection modules R305111, R305112, R305113 and R305114. Pitch dimensions: (WxH) approx. 16.9 x 17.9 mm. Without claws. Protection class (Device): IP 20		
	1810-500	2CKA001753A9974	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

	**Mounting plate [1] [2] with red insert** For 2 modular jack inserts. Suitable for Art. Nos. 0210, 0211 and 0219-101. For systems: AMP / tyco Electronics, BTR, EFB, Krone, Panduit, Quante, Radiall, Setec, Dr.-Ing. Sieger, Telena, Thomas & Betts For Telegärtner AMJ/UMJ connection modules/ couplings. For 2 fiber optic modules of the following types: 3M-Volition, Krone, mvk. Pitch dimensions: (WxH) approx. 14.8 x 19.4 mm. Without claws. Protection class (Device): IP 20		
	1812-500	2CKA001753A9972	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

Product	Article-No.	Order-No.	Pack/Qty
	**Mounting plate [1] [2] with black insert** For MTRJ or 2 modular jack inserts. For systems: Ackermann, AMP / tyco Electronics (Slim Line (SL) -SM 2gang/switches: 110Connect Jacks, Toolless Jacks / Standard 110Connect Jacks), Brand-Rex, CombiNet, EFB Electronic, Telena. For 2 fiber optic modules of the following types: AMP / tyco Electronics MTRJ. Pitch dimensions: (WxH) approx. 14.8 x 20.4 mm. Without claws. Protection class (Device): IP 20		
	1814-500	2CKA001753A9973	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

	**Mounting plate [1] [2] with blue insert** For 2 modular jack inserts. For system: ITT Cannon RJ45 Cat. 5 type 808 RJ45 Mark III. Pitch dimensions: (WxH) approx. 16.0 x 11.0 mm. Without claws. Protection class (Device): IP 20		
	1816	2CKA001710A3100	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

	**Mounting plate [1] [2] with orange base** For 2 modular jack inserts. For system: LexCom 150 and LexCom 250. Pitch dimensions: (WxH) approx. 15.4 x 15.4 mm. Without claws. Protection class (Device): IP 20		
	1819	2CKA001753A8056	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

	**Mounting plate [1] [2] with grey base** For 2 modular jack inserts. For system: Panduit MiniCom (Cu. z.B. TX6 10 Gig Shielded Jack modules and fiber optic modules. Pitch dimensions: (WxH) approx. 15.9 x 18.7 mm. Without claws. Protection class (Device): IP 20		
	1820	2CKA001753A8057	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

	**Flush-mounted assembly adapter** For the accommodation of one or two universal modules 0219. For flush-mounted installation. Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. Protection class (Device): IP 20		
	0219/12	2CKA000230A0395	1/10

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Product	Article-No.	Order-No.	Pack/Qty
	**Channel assembly adapter** For the accommodation of one or two universal modules 0219. For channel and under-floor installation. Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. Protection class (Device): IP 20		
	0219/13	2CKA000230A0396	1/10
	**Universal module, RJ 45, cat. 6a iso, shielded [1])** **1gang** For installation in installation adapter 0219/12 or 0219/13. Also suited for mounting into cover plate 2561-xxx, 2564-02-xxx and bases 1812, 1866 EB, and 1867 EB. RJ-45 terminals for networks according to Cat 6A, Class EA (10 Gbits/s / 500MHz). Equates to cat. 6a, Class EA according to ISO/IEC 11801:2011-06. Cat. 6A according to ISO/IEC 11801: 2011-06. Terminal marking A and B according to TIA/EIA-568-B.2. Typ according to EN 60 603-7-51:2011-01. Shielding according to DIN EN 55022, Class B. Suitable for PoE+ according to IEEE 802.3at, >- 1.000 contact durability. Bend-radius optimised cable feed (30°). Earthing of housing via 6,3 mm blade terminal at the back possible. Re-embedded proofed. Suitable for Mix-and-Match operation. For 8-pole plug RJ 45 only. Housing made from diecast zinc. With integrated dust-protection cap (can be removed if necessary). With insulation displacement connection For data cables with a diameter of 6 -10 mm. For wires of AWG 24-22. For trunk systems, flush-mounted wall boxes and underfloor systems. Protection class (Device): IP 20		
	0219-101	2CKA000230A0413	1/10

[1]) With assembly adapters appropriate for telephone unit cover plates 2539-21x and 1766-xxx.

	**Modular-Jack insert** **6-pole Cat. 3 (AMP-No. 216000-2)** For cover plate 2561-xxx, 2561-02-xxx and insert 1812, 1866 built-in, 1867 built-in. For conductor cross-sections of 0.12 mm² (AWG 26) to 0.35 mm² (AWG 22). Protection class (Device): IP 20		
	0210	2CKA000225A0078	10
	**Modular-Jack insert** **8-pole Cat. 3 (AMP-No. 216005-4)** For cover plate 2561-xxx, 2561-02-xxx and insert 1812, 1866 built-in, 1867 built-in. For conductor cross-sections of 0.12 mm² (AWG 26) to 0.35 mm² (AWG 22). Protection class (Device): IP 20		
	0211	2CKA000225A0086	10

Product	Article-No.	Order-No.	Pack/Qty
	**Built-in jack** For potential balancing jack cover plate and installation in cover plates. For devices of 19 mm diameter. Protection class (Device): IP 20		
	0471-0-0037	2CKA000471A0037	10
	**Potential balancing plug** Suitable for plug 2095 UC-212 and built-in jack 0471-0-0037 acc. to German Standard DIN 42801. For potential balancing jack cover plate (connection up to 6 mm² crimped or soldered) Protection class (Device): IP 20		
	0299-0-0032	2CKA000299A0032	10
	**Blank plate** **with metal mounting plate** Protection class (Device): IP 20		
ivory white	**1742-82**	2CKA001710A3143	10
studio white	**1742-84-500**	2CKA001710A3991	10/100
grey metallic [1])	**1742-803**	2CKA001710A3843	10

[1]) Surface painted.

	**Cover plate [1])** **with metal mounting plate** As cover for flex outlet, for cords up to 10.3 mm diameter. With strain relief (without terminal block). Protection class (Device): IP 20		
ivory white	**1749-82**	2CKA001710A3145	10
studio white	**1749-84**	2CKA001710A3163	10/100
grey metallic [2])	**1749-803**	2CKA001710A3844	10

[1]) Cover plate can also be used individually as cover for telephone connector boxes (VDo).
[2]) Surface painted.

	**Cover plate [1])** As cover for universal data connection boxes. Art.-No. 0213 (Cat 3/ISDN), 0216-101, 0218/11-101 (Cat 5e/6 data technology) and comparable types of the company Rutenbeck. For WLAN access points 8186/31 and 8186/41. Brand-Rex (WAEGV 8 EKR/EK). BTR (universal data connecting unit design and IAE design). Telegärtner (AMJ 45, UMJ 45). With down-leading outlet. With labelling field. Size of labelling field: 60 x 9 mm. Protection class (Device): IP 20		
ivory white	**1803-82**	2CKA001710A3147	10
studio white	**1803-84-500**	2CKA001710A1550	10/100
grey metallic [2])	**1803-803**	2CKA001710A3852	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Surface painted.

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Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1]) 2gang** As cover for universal data connection boxes. Art. No. 0214, 0215 (Cat 3), 0220/12-507, 0221/12-507, 0218, 0217 (Cat 5e/6 data technology) and comparable types of the company Rutenbeck. Brand-Rex (WAEGV 8/8 EKR/EK). AMP (NETCONNECT 5E). BTR (E-DAT C6, E-DAT design, Universal data connecting unit design and IAE design). cti (cti-wire 2.8 Cat.6). Telegärtner (AMJ 45, UMJ 45). With down-leading outlet. With labelling field. Size of labelling field: 60 x 9 mm. Protection class (Device): IP 20		
ivory white	**1803-02-82**	2CKA001710A3146	10
studio white	**1803-02-84-500**	2CKA001710A1551	10/100
grey metallic [2])	**1803-02-803**	2CKA001710A3853	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Surface painted.

	**Cover plate** For telephone connection unit. For USB, VGA, HDMI inserts and communication adapter. USB power adapter insert 6472 U-500-101. USB power adapter insert 6475 U-101-500. For loudspeaker connection box. Suitable for part number 0248/0x-101. For data modules. Suitable for Art. No. 0219/12 and 0219/13. For modular outlets with 90° RJ45 outlet from Telegärtner (type MJ and WE). Protection class (Device): IP 20		
ivory white	**1766-82**	2CKA001710A3144	10/100
studio white	**1766-84-500**	2CKA001710A3992	10/100
grey metallic [1])	**1766-803**	2CKA001710A3854	10

[1]) Surface painted.

	**Cover plate** As cover for telephone connector boxes (VDo). Can be knocked out for single or double connection. Protection class (Device): IP 20		
ivory white	**1745-82**	2CKA001710A3155	10
studio white	**1745-84**	2CKA001710A3173	10
grey metallic [1])	**1745-803**	2CKA001710A3855	10

[1]) Surface painted.

	**Cover plate [1]) socket outlet** Telephone socket (TDO)		
ivory white	**1762-82-506**	2CKA001710A4104	10/100
studio white	**1762-84-506**	2CKA001710A4106	10/100
grey metallic [2])	**1762-803-506**	2CKA001710A4102	10/100

[1]) Suitable insert: TDO 3x 10 OUP (for 1 telephone and 2 auxiliary devices).
[2]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1]) [2]) as cover for standard Radio/TV/SAT socket outlets** With 2 connectors Acc. to German Standard DIN 45330. Radio/TV/SAT. With M3 fixing screw. Protection class (Device): IP 20		
ivory white	**1743-82**	2CKA001724A2758	10
studio white	**1743-84-500**	2CKA001724A4332	10/100
grey metallic [3])	**1743-803**	2CKA001724A4291	10

[1]) Third opening can be knocked out.
[2]) See inserts for satellite coaxial socket outlets.
[3]) Surface painted.

	**Cover plate** As cover for 4gang Satellite co-axial socket outlet EVU 02 F, GEVU 15 S from Hirschmann. Protection class (Device): IP 20		
ivory white	**1743-04-82**	2CKA001724A4375	10
studio white	**1743-04-84**	2CKA001724A4377	10
grey metallic [1])	**1743-04-803**	2CKA001724A4373	10

[1]) Surface painted.

	**Cover plate** As cover for 4gang Satellite co-axial socket outlet SAT400/EAS/DC, EAS 405, 413 DAS from Ankaro. Protection class (Device): IP 20		
ivory white	**1743/10-04-82**	2CKA001724A4366	10
studio white	**1743/10-04-84**	2CKA001724A4368	10/100
grey metallic [1])	**1743/10-04-803**	2CKA001724A4364	10

[1]) Surface painted.

	**Cover plate [1]) with labelling field** For modular jack with slide entrance. To fit only Art. No. 1810, 1812, 1814, 1816, 1818, 1819 and 1820. Size of labelling field: 60 x 9 mm. Protection class (Device): IP 20		
ivory white	**1800-82**	2CKA001710A3158	10
studio white	**1800-84-500**	2CKA001710A3990	10/100
grey metallic [2])	**1800-803**	2CKA001710A3856	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Surface painted.

	**Cover plate** For 1 modular jack. Suitable for Art. Nos. 0210, 0211 and 0219-101. Without claws. Protection class (Device): IP 20		
ivory white	**2561-82**	2CKA001753A0401	10
studio white	**2561-84**	2CKA001753A0403	10
grey metallic [1])	**2561-803**	2CKA001753A0399	10

[1]) Surface painted.

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Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For 2 modular jack inserts. Suitable for Art. No. 0210 and 0211. Without claws. Protection class (Device): IP 20		
ivory white	**2561-02-82**	2CKA001753A0392	10
studio white	**2561-02-84**	2CKA001753A0394	10
grey metallic [1])	**2561-02-803**	2CKA001753A0316	10

[1]) Surface painted.

	Cover plate For telecommunication inserts with cover plate 50 x 50 mm. With cover plate 50 x 50 mm, AMP, Brand-Rex, Rutenbeck, BTR, Telegärtner, etc. Protection class (Device): IP 20		
ivory white	**1746/10-82**	2CKA001710A3521	10
studio white	**1746/10-84-500**	2CKA001710A3993	10/100
grey metallic [1])	**1746/10-803**	2CKA001710A3857	10

[1]) Surface painted.

	Intermediate ring **Reflex SI/SI Linear** For fitting cover plates from the Busch-Duro 2000® SI and Reflex SI range. Protection class (Device): IP 20		
ivory white	**1747 SI-82**	2CKA001710A3862	10
studio white	**1747 SI-84**	2CKA001710A3863	10

	**Intermediate ring** **Busch-balance® SI** For attaching cover plates from the Busch-balance® SI range. Delivery without cover plate. Protection class (Device): IP 20		
ivory white	**1747 BSI-82**	2CKA001710A4094	10
studio white	**1747 BSI-84**	2CKA001710A4096	10/100
grey metallic [1])	**1747 BSI-803**	2CKA001710A4092	10

[1]) Surface painted.

	Cover plate For telecommunication inserts with cover plate 50 x 50 mm. With cover plate 50 x 50 mm, AMP, Brand-Rex, Rutenbeck, BTR, Telegärtner, etc. Protection class (Device): IP 20		
ivory white	**1746-82**	2CKA001710A3149	10
studio white	**1746-84**	2CKA001710A3167	10
grey metallic [1])	**1746-803**	2CKA001710A3858	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Intermediate ring with hinged lid [1])** **Busch-balance® SI** For attaching cover plates from the Busch-balance® SI range. Delivery without cover plate. With sealing ring. With hinged lid. Protection class (Device): IP 44 Dimensions: (L x W x D): 63 mm x 63 mm x 20 mm		
ivory white	**2518-WD-82**	2CKA001719A0218	10
studio white	**2518-WD-84**	2CKA001719A0220	10
grey metallic [2])	**2518-WD-803**	2CKA001719A0216	10

[1]) Combinable only with covers for flush-mounted inserts
[2]) Surface painted.

	**XLR centre plate** As cover for Neutrik plug connectors, type D series. Without claws. Protection class (Device): IP 20		
ivory white	**2553-82**	2CKA001724A4400	10
studio white	**2553-84**	2CKA001724A4402	10
grey metallic [1])	**2553-803**	2CKA001724A4398	10

[1]) Surface painted.

	**Cover plate** **with metal mounting plate** For covering universal data communication connectors and circular connectors with screwed plug M 16x0.75 (installable in insert) in accordance with DIN 41524, 41529, 45322, 45327, 45328 and 45329. Knock-out openings 6, 8, 18 mm. Protection class (Device): IP 20		
ivory white	**1748-82**	2CKA001710A3655	10
studio white	**1748-84**	2CKA001710A3656	10
grey metallic [1])	**1748-803**	2CKA001710A3851	10

[1]) Surface painted.

	**Cover plate** **with metal mounting plate** As cover for BNC and TNC sockets. Knock-out openings 6, 8, 18 mm. Protection class (Device): IP 20		
ivory white	**1750-82**	2CKA001710A3148	10
studio white	**1750-84**	2CKA001710A3166	10
grey metallic [1])	**1750-803**	2CKA001710A3859	10

[1]) Surface painted.

	**Equipotential socket outlet** **2gang** Without claws. For connecting wires up to 1 x 6 mm² and 4 x 2.5 mm². IEC 60601-1:2005; DIN EN 60601 (VDE 0750-1): July 2007 Connection bolts German Standard DIN 42801. Protection class (Device): IP 20		
ivory white	**2095 UC-82**	2CKA002495A0085	10
studio white	**2095 UC-84**	2CKA002495A0086	10
grey metallic [1])	**2095 UC-803**	2CKA002495A0097	10

[1]) Surface painted.

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Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **with metal mounting plate** With screw-type terminal. Fixed with central locknut. As cover for pilot devices with a diameter of 22.5 mm Without claws. Protection class (Device): IP 20		
ivory white	**2533-82**	2CKA001724A4255	10
yellow	**2533-82-15**	2CKA001724A4382	10
studio white	**2533-84**	2CKA001724A4256	10
grey metallic [1])	**2533-803**	2CKA001724A4407	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1])** **with metal mounting plate** for communication devices. With labelling field 60.2 x 10.2 mm. Without claws. Protection class (Device): IP 20		
ivory white	**1758-82**	2CKA001724A2759	10
studio white	**1758-84**	2CKA001724A2761	10/100
grey metallic [2])	**1758-803**	2CKA001724A4292	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Surface painted.

Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Radio DAB+ [1])** DAB+ and RDS stereo radio alarm clock for flush-mounted installation. With high-resolution colour display for showing additional information. Reception frequency: 87.50 MHz - 108.00 MHz. Receive frequency (DAB+): 174 MHz – 240 MHz. With external AUX input/output, reversible. For mono/stereo operation. 8 radio stations storable. With time and date display. With individual alarm and snooze function. With automatic switch-off function (automatic sleep mode). With extension input to remote-controlled ON/OFF switches. With integrated antenna. With additional connection for external antenna. Permitted speaker impedance: 4 - 8 Ohm Can be installed as 1gang and in multiple combinations. Control element: 4-button operation via floating rocker Display elements: ICU graphic display with 280 DPI. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Control/Signal outputs: 2, Loudspeaker output, impedance 4 Ohm Rated power: 2 W (RMS) Protection class (Device): IP 20 Temperature range (Device): 5 °C to 40 °C Dimensions: (L x W x D): 71 mm x 71 mm x 47 mm Mounting depth: 32 mm		
	8215 U-101-500	2CKA008200A0276	1/10

[1]) No claw. Screw-fixing via keyholes.

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Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Radio BTconnect DAB+ [1])** **With Bluetooth interface for music replay.** DAB+ and RDS stereo radio alarm clock for flush-mounted installation. With high-resolution colour display for showing additional information. With Bluetooth interface for music replay of mobile devices. Connection of external Bluetooth loudspeakers possible. Reception frequency: 87.50 MHz - 108.00 MHz. Receive frequency (DAB+): 174 MHz – 240 MHz. With external AUX input/output, reversible. For mono/stereo operation. 8 radio stations storable. With time and date display. With individual alarm and snooze function. With automatic switch-off function (automatic sleep mode). With extension input to remote-controlled ON/OFF switches. With integrated antenna. With additional connection for external antenna. Permitted speaker impedance: 4 - 8 Ohm Can be installed as 1gang and in multiple combinations. Bluetooth specification: 4.2. Bluetooth profiles supported: A2DP Number of stored Bluetooth connections: max. 8 Control element: 4-button operation via floating rocker Display elements: ICU graphic display with 280 DPI. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Rated power: 2 W (RMS) Protection class (Device): IP 20 Temperature range (Device): 5 °C to 40 °C Dimensions: (L x W x D): 71 mm x 71 mm x 47 mm Mounting depth: 32 mm Bluetooth		
	8217 U-101-500	2CKA008200A0279	1/10

[1]) No claw. Screw-fixing via keyholes.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Radio iNet [1]) [2]) [3]) [4])** WLAN Internet radio alarm clock for flush-mounted installation. For the reception of national and international radio stations via Internet. Radio station search possible via various genres. With high resolution graphic display and background illumination. With external AUX input. Integrated web-server for configuration and control. Remote operation with smartphone via browser surface. UPnP replay function. It is controlled via smartphone. For mono/stereo operation. 8 radio stations storable. With time and date display. With alarm function. With short-time timer. With automatic switch-off function (automatic sleep mode). With extension input to remote-controlled ON/OFF switches. With integrated WLAN antenna. WLAN Standards: IEEE 802.11b / IEEE 802.11g and IEEE 802.11n (2,4 GHz). WLAN safety: WPA / WPA2. Permitted speaker impedance: 4 - 8 Ohm Can be installed as 1gang and in multiple combinations. Rated voltage: 110 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20 Temperature range (Device): 5 °C to 40 °C Dimensions: (L x W x D): 71 mm x 71 mm x 49 mm Mounting depth: 33 mm APP		
	8216 U-500	2CKA008200A0153	1/10

[1]) No claw. Screw-fixing via keyholes.
[2]) Matching loudspeaker insert 8223 U.
[3]) Can also be combined with built-in loudspeaker (8222 EB) and moist atmosphere loudspeaker (8224 EB).
[4]) To be mounted only in connection with commercially available flush-mounted installation boxes according to DIN 49073 > 40 mm depth gauge or Busch-Jaeger art. no. 3040, 3050 or 3060.

	**Loudspeaker insert [1])** **5 cm (2")** With flat plug connector. With broadband characteristics. Rated output: 2 W (RMS) Incl. speaker connection cable. Frequency response: 200 - 20,000 Hz Impedance: 4 Ohm Protection class (Device): IP 20, SELV Mounting depth: 32 mm		
	8223 U-500	2CKA008200A0183	1/10

[1]) No claw. Screw-fixing via keyholes.

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Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-powerDock Insert** [1] [2] [3] [4] For charging and supplying mobile terminal devices. With quick charging function for devices compatible with quick-chargeTM. Makes possible fast charging of the mobile terminal device. Rated voltage: 100 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Suitable for: Apple terminal device Rated current: 2.1 A Output voltage: 5 V- Suitable for: Terminal device with USB-C connection Rated current: 2.1 A Output voltage: 5 V- Suitable for: Terminal device with quick-charge support and USB-C connection and quick-charge TM function. Rated current: 2 A Output voltage: 9 V- Protection class (Device): IP 20, SELV Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 32 mm Mounting depth: 32 mm		
	6473 U-500	2CKA006400A0039	1/10

[1] No claw. Screw-fixing via keyholes.
[2] The USB-C connection of the Busch-powerDock uses the quick charging function according to Qualcomm® Quick chargeTM 2.0 standard.
[3] In rare cases the manufacturers of USB-C terminal devices support the quick-charging function independent of this standard only in case of charging devices that are the same as those of other manufacturers.
[4] In these cases the quick-charging function of the terminal device is not enabled.

	**Busch-powerDock Charging cradle with Apple lightning connection** [1] For Busch-powerDock insert 6473 U. For attaching mobile terminal devices with lightning connection. For iPhone XS Max, iPhone XS, iPhone XR, iPhone X. For iPhone 8 Plus, iPhone 8. For iPhone 7 Plus, iPhone 7. For iPhone SE. For iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6. For iPhone 5s, iPhone 5c, iPhone 5. For iPod touch (6th generation), iPod touch (5th generation), iPod nano (7th generation). Suitable for use with protective covers certified by Apple. Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 54 mm x 54 mm x 36 mm		
	6473-500	2CKA006400A0081	1/10

[1] Not released for use with the iPad.

	**Busch-powerDock Charging cradle with USB-C connection** For Busch-powerDock insert 6473 U. For attaching mobile terminal devices with USB-C connection. Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 54 mm x 54 mm x 36 mm		
	6473/11-500	2CKA006400A0083	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**USB power adapter insert, flush-mounted** [1] [2] [3] **With USB-A & USB-C interface** For supply and support of mobile devices via USB-cable. With USB type A and USB type C female connector. To support two devices at the same time. Supports automatic negotiating of optimum charging parameters for the shortest charging times. Support of loading protocol on the USB-A connection: Apple MFI with 2.4 A and BC 1.2 with 1.5 A. Support of the additional quick-charge protocols: USB-PD and quick-charge 3.0 & 4.0. With electronic short-circuit protection. With electronic overload protection. Rated voltage: 230 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 2x USB charging interface Suitable for: Only USB-A bus occupied: Rated current: 3000 mA Output voltage: 5 V- Suitable for: Only USB-C bus occupied: Rated power: 18 W Suitable for: USB-A and USB-C bus occupied. Total: Rated current: 3250 mA Output voltage: 5 V- Protection class (Device): IP 20, SELV Temperature range (Device): 0 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 43 mm Mounting depth: 32 mm		
	6475 U-500	2CKA006400A0399	1

[1] No claw. Screw-fixing via keyholes.
[2] No data transfer.
[3] When cleaning the device, use dust cover 2098 for the USB-A connection.

	**HDMI connection unit** [1] **with screw-type terminals and strain relief** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To link high-definition digital audio and video data from e.g. SAT-receiver, DVD-/Blue-Ray-player to plasma-type, LCD- or-LED-TVs/screens. HDMI-type A, 3D-compatible. Fully HD ready (1920 x 1080 pixel). For 20-wire HDMI-cables via srew-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. For easy mounting and adhering to the admissible bending radii, the Kaiser >Electronic socket<, article number 1068-02 or 9062-74, is recommended. Without cover plate. Without claws. Protection class (Device): IP 20 Mounting depth: 34 mm		
white	**0261/31-500**	2CKA000230A0430	1
grey	**0261/33-500**	2CKA000230A0432	1
alpine white	**0261/32-500**	2CKA000230A0431	1

[1] Please follow the recommendations of the cable and device producers for the max. HDMI cable lengths.

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Product	Article-No.	Order-No.	Pack/Qty
	**VGA connection unit [1])** **with screw-type terminals and strain relief** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To link analogue video data between PCs and laptops to monitors or digital projectors etc. VGA-type: D-type, 15-pole. Fully HD ready (1920 x 1080 pixel). For 15-wire VGA-cables via srew-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. For easy mounting and adhering to the admissible bending radii, the Kaiser >Electronic socket<, article number 1068-02 or 9062-74, is recommended. Without cover plate. Without claws. Protection class (Device): IP 20 Mounting depth: 34 mm		
white	**0261/21-500**	2CKA000230A0424	1
grey	**0261/23-500**	2CKA000230A0426	1
alpine white	**0261/22-500**	2CKA000230A0425	1

[1]) Please follow the recommendations of the cable and device producers for the max. VGA cable lengths.

Product	Article-No.	Order-No.	Pack/Qty
	**USB connection unit [1])** **with screw-type terminals and strain relief** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To link mobile devices like e.g. printer, scanner, USB-sticks or digital cameras etc. USB-type A, USB 2.0 compatible. For 5-wire USB- cables via srew-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. For easy mounting and adhering to the admissible bending radii, the Kaiser >Electronic socket<, article number 1068-02 or 9062-74, is recommended. Without cover plate. Without claws. Protection class (Device): IP 20 Mounting depth: 34 mm		
white	**0261/11-500**	2CKA000230A0418	1
grey	**0261/13-500**	2CKA000230A0420	1
alpine white	**0261/12-500**	2CKA000230A0419	1

[1]) Please follow the recommendations of the cable and device producers for the max. USB cable lengths.

Product	Article-No.	Order-No.	Pack/Qty
	**Communication adapter** **for BNC-F Duct-jacks** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To support 1 or 2 jacks. For trunk systems, flush-mounted wall boxes and underfloor systems. Without cover plate. Without claws. Protection class (Device): IP 20		
white	**0262/11-500**	2CKA000230A0436	1
grey	**0262/13-500**	2CKA000230A0438	1
alpine white	**0262/12-500**	2CKA000230A0437	1

Product	Article-No.	Order-No.	Pack/Qty
	**F duct-jack** **for communication adapter** For connection of antenna cables e.g.. for TVs with integrated TV-tuner and satellite receiver. With screw-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. Protection class (Device): IP 20		
metal clad	**0262-500**	2CKA000230A0440	1

Product	Article-No.	Order-No.	Pack/Qty
	**Communication adapter** **for Cinch-jacks** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To support 1 or 2 jacks. For trunk systems, flush-mounted wall boxes and underfloor systems. Without cover plate. Without claws. Protection class (Device): IP 20		
white	**0263/11-500**	2CKA000230A0444	1
grey	**0263/13-500**	2CKA000230A0446	1
alpine white	**0263/12-500**	2CKA000230A0445	1

Product	Article-No.	Order-No.	Pack/Qty
	**Cinch-jacks** **for communication adapter** To link analogue audio devices like audio-receiver, amplifier and HiFi-sets. Audio-band 20Hz - 20kHz. Marked white: audio , channel left. With soldering tag. Protection class (Device): IP 20		
alpine white	**0263/04-500**	2CKA000230A0451	1

Product	Article-No.	Order-No.	Pack/Qty
	**Cinch-jacks** **for communication adapter** To link analogue audio devices like audio-receiver, amplifier and HiFi-sets. Audio-band 20Hz - 20kHz. Marked black: audio , channel left. With soldering tag. Protection class (Device): IP 20		
black	**0263/05-500**	2CKA000230A0452	1

Product	Article-No.	Order-No.	Pack/Qty
	**Cinch-jacks** **for communication adapter** To link analogue audio devices like audio-receiver, amplifier and HiFi-sets. Audio-band 20Hz - 20kHz. Marked red: audio , channel left. With soldering tag. Protection class (Device): IP 20		
Red	**0263/06-500**	2CKA000230A0453	1

Product	Article-No.	Order-No.	Pack/Qty
	**Cinch-jacks** **for communication adapter** For connecting analogue video devices, such as DVD players, hard disc recorders, video recorders or receivers. Marked yellow: audio , channel left. With soldering tag. Protection class (Device): IP 20		
yellow	**0263/07-500**	2CKA000230A0454	1

Product	Article-No.	Order-No.	Pack/Qty
	**Communication adapter** **for Mini-jacks 3,5mm.** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To support 1 or 2 jacks. For trunk systems, flush-mounted wall boxes and underfloor systems. Without cover plate. Without claws. Protection class (Device): IP 20		
white	**0264/11-500**	2CKA000230A0458	1
grey	**0264/13-500**	2CKA000230A0460	1
alpine white	**0264/12-500**	2CKA000230A0459	1

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Product	Article-No.	Order-No.	Pack/Qty
	**Mini-jack 3,5 mm for communication adapter** For the connection of mobile terminal devices such as MP3 player (stereo), mobile telephone and smartphones. Audio-band 20Hz - 20kHz. With soldering tag. Protection class (Device): IP 20		
chrome gloss	**0264-500**	2CKA000230A0462	1
	**Stereo loudspeaker connection box [1])** With screwless terminals (with screw-type terminals on the back). With 4 terminals. Cable cross-section max. 10 mm2. Polarity is indicated by color. With claw. Protection class (Device): IP 20		
white	**0248/02-101**	2CKA000230A0402	10/100

[1]) Suitable for cover telephone unit 1766-xxx and 2539-21x.

	**Stereo loudspeaker connection box [1])** With screwless terminals (with screw-type terminals on the back). With 4 terminals. Cable cross-section max. 10 mm2. Polarity is indicated by color. With claw. Protection class (Device): IP 20		

[1]) Suitable for cover telephone unit 1766-xxx and 2539-21x.

	**Stereo loudspeaker connection box [1])** With screwless terminals (with screw-type terminals on the back). With 4 terminals. Cable cross-section max. 10 mm2. Polarity is indicated by color. With claw. Protection class (Device): IP 20		
anthracite	**0248/05-101**	2CKA000230A0404	10/100

[1]) Suitable for cover telephone unit 1766-xxx and 2539-21x.

	**Cover plate** For Busch-Radio DAB+ 8215 U-101. For Busch-Radio BTconnect DAB+ 8217 U-101. For Busch-Radio iNet 8216 U.		
ivory white	**8252-82-101-500**	2CKA008200A0251	10
studio white	**8252-84-101-500**	2CKA008200A0255	10
grey metallic [1])	**8252-803-101-500**	2CKA008200A0257	10

[1]) Surface painted.

	**Cover plate** For loudspeaker insert 8223 U.		
ivory white	**8253-82**	2CKA008200A0079	1/10
studio white	**8253-84**	2CKA008200A0081	1/10
grey metallic [1])	**8253-803**	2CKA008200A0115	1/10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For telephone connection unit. For USB, VGA, HDMI inserts and communication adapter. USB power adapter insert 6472 U-500-101. USB power adapter insert 6475 U-101-500. For loudspeaker connection box. Suitable for part number 0248/0x-101. For data modules. Suitable for Art. No. 0219/12 and 0219/13. For modular outlets with 90° RJ45 outlet from Telegärtner (type MJ and WE). Protection class (Device): IP 20		
ivory white	**1766-82**	2CKA001710A3144	10/100
studio white	**1766-84-500**	2CKA001710A3992	10/100
grey metallic [1])	**1766-803**	2CKA001710A3854	10

[1]) Surface painted.

	**Cover plate** With fixing claws. loudspeaker inserts and cover. With soldering tag. For covering universal data communication connectors and circular connectors with screwed plug M 16x0.75 (installable in insert) in accordance with DIN 41524, 41529, 45322, 45327, 45328 and 45329. Protection class (Device): IP 20		
ivory white	**1751-82**	2CKA001723A0239	10
studio white	**1751-84**	2CKA001723A0240	10/100
grey metallic [1])	**1751-803**	2CKA001723A0257	10

[1]) Surface painted.

	**Cover plate with rotary control, with marking** As a cover for volume controllers. Suitable for the >LR mono BJ FM< devices of WHD. Protection class (Device): IP 20		
ivory white	**1740 DR/03-82**	2CKA001710A3807	10
studio white	**1740 DR/03-84**	2CKA001710A3808	10
grey metallic [1])	**1740 DR/03-803**	2CKA001710A4119	10

[1]) Surface painted.

	Cover plate for Busch-powerDock For Busch-powerDock charging cradle.		
ivory white	**6477-82**	2CKA006400A0057	10
studio white	**6477-84**	2CKA006400A0059	10/100
grey metallic [1])	**6477-803**	2CKA006400A0060	10

[1]) Surface painted.

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Room thermostats

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted [1] [2] [3]** Switch contact opens when the set temperature is reached. With fixing claws. Separate terminal to activate nighttime mode and reduction of room temperature by 4K. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Rated current: 10 A Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1094 U-500	2CKA001032A0512	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3] Switching temperature difference: ± 0.5 K.

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted [1] [2] [3]** **Slide switch** With built-in slide switch and control lamp for nightly reduction of 4 K. Switch contact opens when the set temperature is reached. With fixing claws. Separate terminal to activate nighttime mode and reduction of room temperature by 4K. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Rated current: 10 A Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1095 U-500	2CKA001032A0514	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3] Switching temperature difference: ± 0.5 K.

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted [1] [2] [3]** **Sliding switch, 24 V** With built-in slide switch and control lamp for nightly reduction of 4 K. Switch contact opens when the set temperature is reached. With fixing claws. Separate terminal to activate nighttime mode and reduction of room temperature by 4K. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 24 V~ Rated current: 1 A Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1096 U	2CKA001032A0485	1
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat, e.g., Art. No. 6164/10 .
[3] Switching temperature difference: ± 0.5 K.

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted [1] [2] [3]** **1gang 2way** With fixing claws. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Rated current: 5 A Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1097 U-500	2CKA001032A0513	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo valves of "closed or open when de-energized“ design are required for the controller. E.g. article no. 6164/10-101.
[3] Switching temperature difference: ± 0.5 K.

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Room thermostats

Product	Article-No.	Order-No.	Pack/Qty



Room thermostat, flush-mounted [1] [2] [3]
Actual value indication
With actual value temperature display
Automatic controller calibration
Switch contact opens when the set temperature is reached.
With fixing claws.
Separate terminal to activate nighttime mode and reduction of room temperature by 4K.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 10 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1094 UTA	2CKA001032A0487	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3] Switching temperature difference: ± 0.5 K.



Room thermostat, flush-mounted [1] [2] [3]
Sliding switch, actual value indication
With actual value temperature display
Automatic controller calibration
Switch contact opens when the set temperature is reached.
With built-in slide switch and control lamp for nightly reduction of 4 K.
With fixing claws.
Separate terminal to activate nighttime mode and reduction of room temperature by 4K.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 10 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1095 UTA	2CKA001032A0488	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3] Switching temperature difference: ± 0.5 K.

Product	Article-No.	Order-No.	Pack/Qty



Room thermostat, flush-mounted [1] [2] [3]
Sliding switch, actual value indication, 24 V
With actual value temperature display
Automatic controller calibration
Switch contact opens when the set temperature is reached.
With built-in slide switch and control lamp for nightly reduction of 4 K.
With fixing claws.
Separate terminal to activate nighttime mode and reduction of room temperature by 4K.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 24 V~
Rated current: 1 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1096 UTA	2CKA001032A0489	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat, e.g., Art. No. 6164/10 .
[3] Switching temperature difference: ± 0.5 K.



Room thermostat, flush-mounted [1] [2] [3]
Change-over contact, actual value indication
With actual value temperature display
Automatic controller calibration
With fixing claws.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 5 A
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1097 UTA	2CKA001032A0490	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo valves of "closed or open when de-energized“ design are required for the controller. E.g. article no. 6164/10-101.
[3] Switching temperature difference: ± 0.5 K.



Room thermostat, flush-mounted [1] [2] [3]
Change-over contact, setpoint indication, timer
With change-over contact.
Easy adjustment using menu and text-based display.
4 switching times per day can be user-defined for each day of the week.
With fixing claws.
Automatic summer/wintertime switch-over
Power reserve > 10 hours.
To fit cover plate 6435-xxx.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 10 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9

	1098 U-101	2CKA001032A0508	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo valves of "closed or open when de-energized“ design are required for the controller. E.g. article no. 6164/10-101.
[3] Switching temperature difference: ± 0.5 K.

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Room thermostats

Product	Article-No.	Order-No.	Pack/Qty



Room thermostat, flush-mounted [1])
Remote sensor
With remote sensor and thermal feedback
For underfloor heating.
With built-in slide switch and control lamp for nightly reduction of 4 K.
Switch contact opens when the set temperature is reached.
With fixing claws.
Remote sensor cable length: 4 m.
Sensor =NTC, 10 kilo-ohm at 25 degrees C.
Adjusting range: +10 to +50° C.
Connecting cable: 1mm² to 2.5 mm²
Separate terminal to activate nighttime mode and reduction of room temperature by 4K.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 16 A, cos ϕ 1
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1095 UF	2CKA001032A0497	1/10

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)



Room thermostat, flush-mounted [1]) [2])
Change-over contact, setpoint indication, timer, remote sensor
With change-over contact.
Easy adjustment using menu and text-based display.
4 switching times per day can be user-defined for each day of the week.
With fixing claws.
Automatic summer/wintertime switch-over
Remote sensor cable length: 4 m.
Sensor =NTC, 10 kilo-ohm at 25 degrees C.
Power reserve > 10 hours
To fit cover plate 6435-xxx.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 16 A
Temperature range (Device): 10 °C to 50 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9

	1098 UF-101	2CKA001032A0509	1/10

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2]) Servo valves of "closed or open when de-energized“ design are required for the controller. E.g. article no. 6164/10-101.

Product	Article-No.	Order-No.	Pack/Qty



Room thermostat, flush-mounted [1]) [2]) [3])
Heating/cooling
With separate connection (230 V~) for external switchover between heating or cooling.
Switch contact opens when the set temperature is reached. With fixing claws. Nominal current: 10 A heating. Nominal current: 5 A cooling
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 12 mmEN 60730-2-9, British Standard EN 60669-2-1

	1099 UHK	2CKA001032A0515	1/10

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2]) Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3]) Switching temperature difference: ± 0.5 K.



Room thermostat, flush-mounted [1]) [2]) [3])
Heating/cooling, sliding switch
With built-in sliding switch for switchover between cooling or heating. Switch contact opens when the set temperature is reached. With fixing claws. Nominal current: 10 A heating. Nominal current: 5 A cooling
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 12 mmEN 60730-2-9, British Standard EN 60669-2-1

	1099 UHKEA	2CKA001032A0516	1/10

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2]) Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3]) Switching temperature difference: ± 0.5 K.



Cover plate
for room thermostat
For room thermostats 1094 U/UF, 1097 U/UF.

ivory white	**1794-82**	2CKA001710A3543	10
studio white	**1794-84**	2CKA001710A3544	10
grey metallic [1])	**1794-803**	2CKA001710A3847	10

[1]) Surface painted.



Cover plate
for room thermostat
With sliding switch for nightly room temperature reduction.
to activate nighttime mode and reduction of room temperature by 4K, for thermostats 1095 U, 1096 U and 1095 UF.

ivory white	**1795-82**	2CKA001710A3568	10
studio white	**1795-84**	2CKA001710A3569	10
grey metallic [1])	**1795-803**	2CKA001710A3848	10

[1]) Surface painted.

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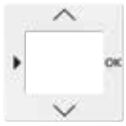
Room thermostats

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate for room thermostat** For room thermostats 1094 UTA, 1097 UTA.		
ivory white	**1794 TA-82**	2CKA001710A3696	10
studio white	**1794 TA-84**	2CKA001710A3698	10
grey metallic [1])	**1794 TA-803**	2CKA001710A3849	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate for room thermostat** With sliding switch for nightly room temperature reduction. For room thermostats 1095 UTA, 1096 UTA.		
ivory white	**1795 TA-82**	2CKA001710A3723	10
studio white	**1795 TA-84**	2CKA001710A3725	10
grey metallic [1])	**1795 TA-803**	2CKA001710A3850	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For comfort timer control element 6455-101-500. For standard timer control element 6456-101. For room thermostats 1098 U-101 and 1098 UF-101. For short-time timer 6465 U-101. For Busch-CO2 sensor 1091 U-500. For blind compact timer 6422 U.		
ivory white	**6435-82**	2CKA006430A0304	10
studio white	**6435-84**	2CKA006430A0306	10
grey metallic [1])	**6435-803**	2CKA006430A0351	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate for room thermostat** For room temperature controller 1099 UHK.		
ivory white	**1795 HK-82**	2CKA001710A4015	10
studio white	**1795 HK-84**	2CKA001710A4017	10
grey metallic [1])	**1795 HK-803**	2CKA001710A4012	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate for room thermostat** For room temperature controller 1099 UHKEA. With sliding switch for switchover between cooling or heating.		
ivory white	**1795 HKEA-82**	2CKA001710A4047	10
studio white	**1795 HKEA-84**	2CKA001710A4049	10
grey metallic [1])	**1795 HKEA-803**	2CKA001710A4044	10

[1]) Surface painted.

LED light

Product	Article-No.	Order-No.	Pack/Qty
	**Info light unit [1]) [2])** Size of information field 43 x 43 mm. Long service life of the lighting element (LEDs). Homogeneous backlighting of the information field. Colour temperature 6,500 K (cold white) Power consumption: < 0.5 W Rated voltage: 230 V~ Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20		
	2062 U	2CKA001511A0115	1/10

[1]) Use relay inserts when switching through movement sensors or comfort switches.
[2]) For switching the LED flush mounted insert use switches without orientation light only.

Product	Article-No.	Order-No.	Pack/Qty
	Cover plate [1]) [2]) As cover for flush-mounted info light. For insert 2062 U. Size of information field 43 x 43 mm. Protection class (Device): IP 20		
ivory white	**1716-82**	2CKA001731A1922	1
studio white	**1716-84**	2CKA001731A1923	1
grey metallic [3])	**1716-803**	2CKA001731A1976	1

[1]) Included with the cover are 46 different text labels and symbols.
[2]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate for indication lamp** For insert 2061/2661 U. As cover for flush-mounted light signal. Protection class (Device): IP 20		
ivory white	**1756-82**	2CKA001753A0090	10
studio white	**1756-84**	2CKA001753A0092	10
grey metallic [1])	**1756-803**	2CKA001753A0088	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cap for indication lamp** For indication lamps. Protection class (Device): IP 20		
clear-transparent	**1565-11**	2CKA001565A0167	10
Red	**1565-12**	2CKA001565A0175	10
green	**1565-13**	2CKA001565A0183	10

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WaveLINE control elements

Product	Article-No.	Order-No.	Pack/Qty
	**RF remote control** • Network-independent radio control. • For switching and dimming. • For controlling blinds and light scenes. • With 3 groups (A, B or C) with 5 pairs of channels. • There are 15 radio channels operated singly or up to 30 light scenes can be called.		
	6780	2CKA006780A0002	1
	**1-fach Aktor WaveLINE** • For wireless switching of electrical loads. • Functions via radio control: ON/OFF, timer and light scene control. • Functions via the extension unit: ON/OFF, timer and sending a radio control telegram. • Operation via conventional push button (2020 US/2021/6 UK) possible.		
	6701-101-500	2CKA006700A0040	1
	**1-fach Aktor WaveLINE** • For wireless switching of electrical loads. • For functions ON/OFF, timer and lightscene control. • For wall mounted transmitter Waveline 6731-xxx, 6732-xxx und 6733-xxx. • For remote control WaveLINE 6780. • Switch-off delay: Adjustable between 10 s to 5 min.		
	6702-500	2CKA006700A0023	1
	**2-fach Aktor WaveLINE** • For wireless switching of electrical loads. • For operation mode 2gang switch, 2 separate outputs. • For operation mode timer: output 1 (eg lighting), output 2: ON/Off delay in dependence of output 1 (eg fan control). • For functions: ON/OFF and light scene control. • For wall mounted transmitter Waveline 6731-xxx, 6732-xxx und 6733-xxx		
	6703-500	2CKA006700A0024	1
	**Dimm Aktor WaveLINE** • For wireless switching and dimming of electrical loads. • For functions ON/OFF, dimming and lightscene control. • With soft ON/OFF function. • With selectable light value storage. • For wall mounted transmitter Waveline 6731-xxx, 6732-xxx und 6733-xxx.		
	6704-500	2CKA006700A0025	1
	**Serien/Jalousieaktor WaveL** • For wireless switching of electrical loads. • For driving and adjusting blinds/shutters and awnings over radio. • Functions via radio control: 2gang switch, blind switch and light scene control. • Functions via extension unit: 2gang switch, blind switch and send radio control telegram. • Operation via conventional push button (2020 US/2021/6 UK) possible.		
	6705-101-500	2CKA006700A0042	1

WaveLINE inserts / control elements

Product	Article-No.	Order-No.	Pack/Qty
	**2-fach Binärein. WaveLINE** • Radio control telegrams are sent when the two extension units are activated with mains voltage (AC 230 V~). • Operation via conventional push button (2020 US/2021/6 UK) possible. • The 2gang binary input has 5 function modes: 1) 2-channel switching 2) 2-channel dimming 3) 1 channel blind 4) Two-channel light scene control 5) Channel 1: Switching ON Channel 2: Continuous switching ON/OFF		
	6725-500	2CKA006720A0008	1
	**Wall-mounted transmitter WaveLINE [1] [2]** **1-channel** 1gang wall-mounted transmitter independent of mains power supply. With labelling field and labelling strip. For switching and dimming. For controlling blinds and light scenes. 1 radio channel can be operated or up to 2 light scenes can be called up. For flush-mounted WaveLINE actuators 6701-101, 6702, 6703, 6704 and 6705-101. Compatible with WaveLINE KNX gateway TP-RF 6770. Send frequency: 868 MHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery Type CR2032. Battery service life: typically 5 years, therefore practically maintenance-free. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Control element: rocker switch left/right Display elements: LED to indicate the transmission Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 16 mm		
ivory white	**6731-82-500**	2CKA006730A0032	1/10
studio white	**6731-84-500**	2CKA006730A0038	1/10

[1] Battery included in delivery.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

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ZigBee Light Link inserts / control elements

Product	Article-No.	Order-No.	Pack/Qty
	**Wall-mounted transmitter WaveLINE [1] [2]** **2-channel** 2gang wall-mounted transmitter independent of mains power supply. With labelling field and labelling strip. For switching and dimming. For controlling blinds and light scenes. 2 radio channels can be operated or up to 4 light scenes can be called up. For flush-mounted WaveLINE actuators 6701-101, 6702, 6703, 6704 and 6705-101. Send frequency: 868 MHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery Type CR2032. Battery service life: typically 5 years, therefore practically maintenance-free. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Control element: rocker switch left/right Display elements: LED to indicate the transmission Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 16 mm		
ivory white	**6732-82-500**	2CKA006730A0033	1/10
studio white	**6732-84-500**	2CKA006730A0039	1/10

[1] Battery included in delivery.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

	**Wall-mounted transmitter WaveLINE [1] [2]** **4-channel** 4gang wall-mounted transmitter independent of mains power supply. With labelling field and labelling strip. For switching and dimming. For controlling blinds and light scenes. 4 radio channels can be operated or up to 8 light scenes can be called up. For flush-mounted WaveLINE actuators 6701-101, 6702, 6703, 6704 and 6705-101. Send frequency: 868 MHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery Type CR2032. Battery service life: typically 5 years, therefore practically maintenance-free. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Control element: rocker switch left/right Display elements: LED to indicate the transmission Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 16 mm		
ivory white	**6733-82-500**	2CKA006730A0034	1/10
studio white	**6733-84-500**	2CKA006730A0040	1/10

[1] Battery included in delivery.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

Product	Article-No.	Order-No.	Pack/Qty
	**ZLL-Power supply insert** • With electronic short-circuit protection. • With electronic overload protection. • For ZigBee Light Link control element 6735-xxx, 6736-xxx and 6737-xxx. • Without control cover. • Rated voltage: 230 V~, +10 % / -10 % • Secondary: 5 V-, +5 % / -5 %		
	6710 U-500	2CKA006710A0005	1
	**ZLL-Relay insert** • 3 wire connection (neutral conductor required). • For switching retrofit LED lamps (LEDi). • For switching incandescent lamps, 230 V tungsten halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are actuated via transformers. • Without control cover.		
	6711 U-500	2CKA006710A0006	1
	**ZLL-Dimmer insert** • Touch dimmer. • For wireless switching and dimming of electrical loads. • 3 wire connection (neutral conductor required). • Optimised for dimming of retrofit LED lamps (LEDi). • For incandescent lamps, 230V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers and dimmable halogen energy-saving lamps.		
	6715 U-500	2CKA006710A0007	1
	**ZLL-Plug-in unit Switch** • Plug device for switching electric loads up to 1,380 W/VA. • Control of thermal positioners for heating control possible. • Not for electrical heating devices. • Connected load can be activated/deactivated via micro switch. • Send/receive frequency: 2.4 GHz.		
	6717-84-500	2CKA006710A0008	1
	ZigBee Light Link wall-mounted transmitter **1-channel** 1gang wall-mounted transmitter independent of mains power supply. For the wireless remote control of other ZigBee Light Link radio components. For saving and calling up 2 light scenes. For dimming a light scene. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery type CR2450 (included in scope of delivery) Battery service life: typically 3 years. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
ivory white	**6735/01-82**	2CKA006730A0080	1
studio white	**6735/01-84**	2CKA006730A0082	1/10
grey metallic [1]	**6735/01-803**	2CKA006730A0117	1

[1] Surface painted.

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WaveLINE control elements

Product	Article-No.	Order-No.	Pack/Qty
	ZigBee Light Link wall-mounted transmitter 2-channel 2gang wall-mounted transmitter independent of mains power supply. For the wireless remote control of other ZigBee Light Link radio components. For saving and calling up 4 light scenes. For dimming 2 light scenes. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery type CR2450 (included in scope of delivery) Battery service life: typically 3 years. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
ivory white	**6736/01-82**	2CKA006730A0084	1
studio white	**6736/01-84**	2CKA006730A0086	1/10
grey metallic [1])	**6736/01-803**	2CKA006730A0121	1

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**ZigBee Light Link wall-mounted transmitter 4-channel** 4gang wall-mounted transmitter independent of mains power supply. For the wireless remote control of other ZigBee Light Link radio components. For saving and calling up 8 light scenes. For dimming 4 light scenes. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery type CR2450 (included in scope of delivery) Battery service life: typically 3 years. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
ivory white	**6737/01-82**	2CKA006730A0088	1
studio white	**6737/01-84**	2CKA006730A0090	1/10
grey metallic [1])	**6737/01-803**	2CKA006730A0127	1

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	ZigBee Light Link control element 1gang For wireless switching and dimming of electrical loads. For ZigBee Light Link flush-mounted inserts 6710 U, 6711 U and 6715 U. In connection with the ZigBee Light Link flush-mounted inserts 6711 U and 6715 U the top rocker is used to switch or dim the non-ZLL lamps connected to the flush-mounted insert directly. In the case of 6736 and 6737, the other keys can be used for saving, calling and dimming lightscenes. In combination with the ZigBee LightLink-UP insert 6710 U for storing and calling up 2 light scenes or dimming a light scene. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. Push-button function: Switching/dimming/light scenes. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
ivory white	**6735-82**	2CKA006730A0068	1
studio white	**6735-84**	2CKA006730A0070	1/10
grey metallic [1])	**6735-803**	2CKA006730A0099	1

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	ZigBee Light Link control element 2gang For wireless switching and dimming of electrical loads. For ZigBee Light Link flush-mounted inserts 6710 U, 6711 U and 6715 U. In connection with the ZigBee Light Link flush-mounted inserts 6711 U and 6715 U the top rocker is used to switch or dim the non-ZLL lamps connected to the flush-mounted insert directly. In the case of 6736 and 6737, the other keys can be used for saving, calling and dimming lightscenes. In combination with the ZigBee LightLink-UP insert 6710 U for storing and calling up 4 light scenes or dimming 2 light scenes. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
ivory white	**6736-82**	2CKA006730A0072	1
studio white	**6736-84**	2CKA006730A0074	1/10
grey metallic [1])	**6736-803**	2CKA006730A0105	1

[1]) Surface painted.

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WaveLINE control elements

Product	Article-No.	Order-No.	Pack/Qty
	**ZigBee Light Link control element 4gang** For wireless switching and dimming of electrical loads. For ZigBee Light Link flush-mounted inserts 6710 U, 6711 U and 6715 U. In connection with the ZigBee Light Link flush-mounted inserts 6711 U and 6715 U the top rocker is used to switch or dim the non-ZLL lamps connected to the flush-mounted insert directly. In the case of 6736 and 6737, the other keys can be used for saving, calling and dimming lightscenes. In combination with the ZigBee LightLink-UP insert 6710 U for storing and calling up 8 light scenes or dimming 4 light scenes. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
ivory white	**6737-82**	2CKA006730A0076	1
studio white	**6737-84**	2CKA006730A0078	1/10
grey metallic [1]	**6737-803**	2CKA006730A0111	1

[1] Surface painted.

Busch-Infoline®

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1] [2]** **1gang, with labelling field** With operating knob. For signal/cancel push-button 1520/1 UK. For monitoring unit 1511 U. For Busch-Leakage guard insert 1531 U. With labelling field 61 x 20 mm. Protection class (Device): IP 20 Dimensions: (L x W x D): 63.5 mm x 63.5 mm x 11.1 mm		
studio white	**1571 CN-84**	2CKA001582A0346	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Can also be used for Busch-axcent®, solo®, and carat®.

	**Cover plate [1] [2]** **2gang, with labelling field** With operating knob. For signal push-button insert 1520/1 UKZ. With labelling field 61 x 20 mm. With exchangeable inlays in read and green for the individual designation of the operating knob. Protection class (Device): IP 20 Dimensions: (L x W x D): 63.5 mm x 63.5 mm x 11.1 mm		
studio white	**1572 CN-84**	2CKA001582A0348	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Can also be used for Busch-axcent®, solo®, and carat®.

	**Cover plate [1] [2]** **with red and neutral light panel and labelling field** For Alarm Control Unit insert 1515 U-12. For Busch-Alarm signal insert 1563 U-12. For indication lamp insert 1564 U-1x. With labelling field 61 x 61 mm. Protection class (Device): IP 20 Dimensions: (L x W x D): 63.5 mm x 63.5 mm x 11.1 mm		
studio white	**1573 CN-84**	2CKA001582A0350	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Can also be used for Busch-axcent®, solo®, and carat®.

	Cover plate [1] [2] **6gang, illuminable, with labelling field** For signal panel insert 1566 U. With labelling field 61 x 61 mm. Protection class (Device): IP 20 Dimensions: (L x W x D): 63.5 mm x 63.5 mm x 11.1 mm		
studio white	**1575 CN-84**	2CKA001582A0353	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Can also be used for Busch-axcent®, solo®, and carat®.

	Cover plate [1] [2] **with labelling field** For power supply insert 1518 U. For relay insert 1539 U. For signal generator insert 1561 U-.... With labelling field 61 x 61 mm. Protection class (Device): IP 20 Dimensions: (L x W x D): 63.5 mm x 63.5 mm x 11.1 mm		
studio white	**1576 CN-84**	2CKA001582A0355	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Can also be used for Busch-axcent®, solo®, and carat®.

solo®

Accessories

Product	Article-No.	Order-No.	Pack/Qty
	**Extension of claws [1])** For the installation of flush-mounted SCHUKO® socket outlets and also switches, push-buttons, etc. and deeply installed flush-mounted boxes. Protection class (Device): IP 20		
	2148	2CKA002148A0120	100

[1]) Not suitable for types 2000/3 US, 2000/6/2 US, 2000/6/6 US-101 and double socket outlets.

	**Braille symbol** self-adhesive (transparent) for cover 2506-xxx Protection class (Device): IP 20		
	light		
	2144 LI	2CKA001714A0295	10/1000
	bell		
	2144 KI	2CKA001714A0296	10/1000
	key		
	2144 TR	2CKA001714A0297	10/1000

	**Braille symbol** **socket outlet** self-adhesive, transparent for SCHUKO® socket outlets with hinged lid 20 EUK-xxx Protection class (Device): IP 20		
	2144 ST	2CKA001714A0298	10/1000

	DIN A 4 labelling sheet [1]) **plastic foil** Suitable for all to be labeled Busch-Jaeger devices. For laser printer. The text of the foil is printed via the Busch-Jeager labeling service. Dimensions: (L x W x D): 297 mm		
translucent	**1799/02**	2CKA001799A0959	1
transparent	**1799/03**	2CKA001799A0960	1

[1]) 1 piece = 1 sheet.

	**RC suppressor** For protection against the damage or destruction of electronic devices due to overvoltages. For wiring network-interconnected inductivities (e.g.. relay, protection, fluorescent lamps, transformers, etc.). Eliminates functional disturbances on electronic devices, e.g. automatic circuit reclosure (clocking) of a movement detector. Dimensions: diameter 25 mm, length 35 mm, length of the connecting cable approx. 100 mm. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz		
	6899	2CKA006899A0231	10

Cover frames

Product	Article-No.	Order-No.	Pack/Qty
	**Cover frame [1])** **1gang frame** For vertical or horizontal installation. Protection class (Device): IP 20 Dimensions: (L x W x D): 87 mm x 87 mm x 11 mm		
chrome	**1721-80-500**	2CKA001754A4535	10/100
chrome gloss	**1721-80G-500**	2CKA001754A4538	10/100
studio white	**1721-84-500**	2CKA001754A4536	10/100

[1]) Suitable for installation in trunking systems with 80 mm conduit.

	**Cover frame** **2gang frame** For vertical or horizontal installation. Protection class (Device): IP 20 Dimensions: (L x W x D): 157 mm x 87 mm x 11 mm		
chrome	**1722-80-500**	2CKA001754A4537	10/100
chrome gloss	**1722-80G**	2CKA001754A4327	10
studio white	**1722-84-500**	2CKA001754A4539	10/100

	**Cover frame** **3gang frame** For vertical or horizontal installation. Protection class (Device): IP 20 Dimensions: (L x W x D): 228 mm x 87 mm x 11 mm		
chrome	**1723-80-500**	2CKA001754A4540	10/100
chrome gloss	**1723-80G**	2CKA001754A4328	10
studio white	**1723-84-500**	2CKA001754A4541	10/100

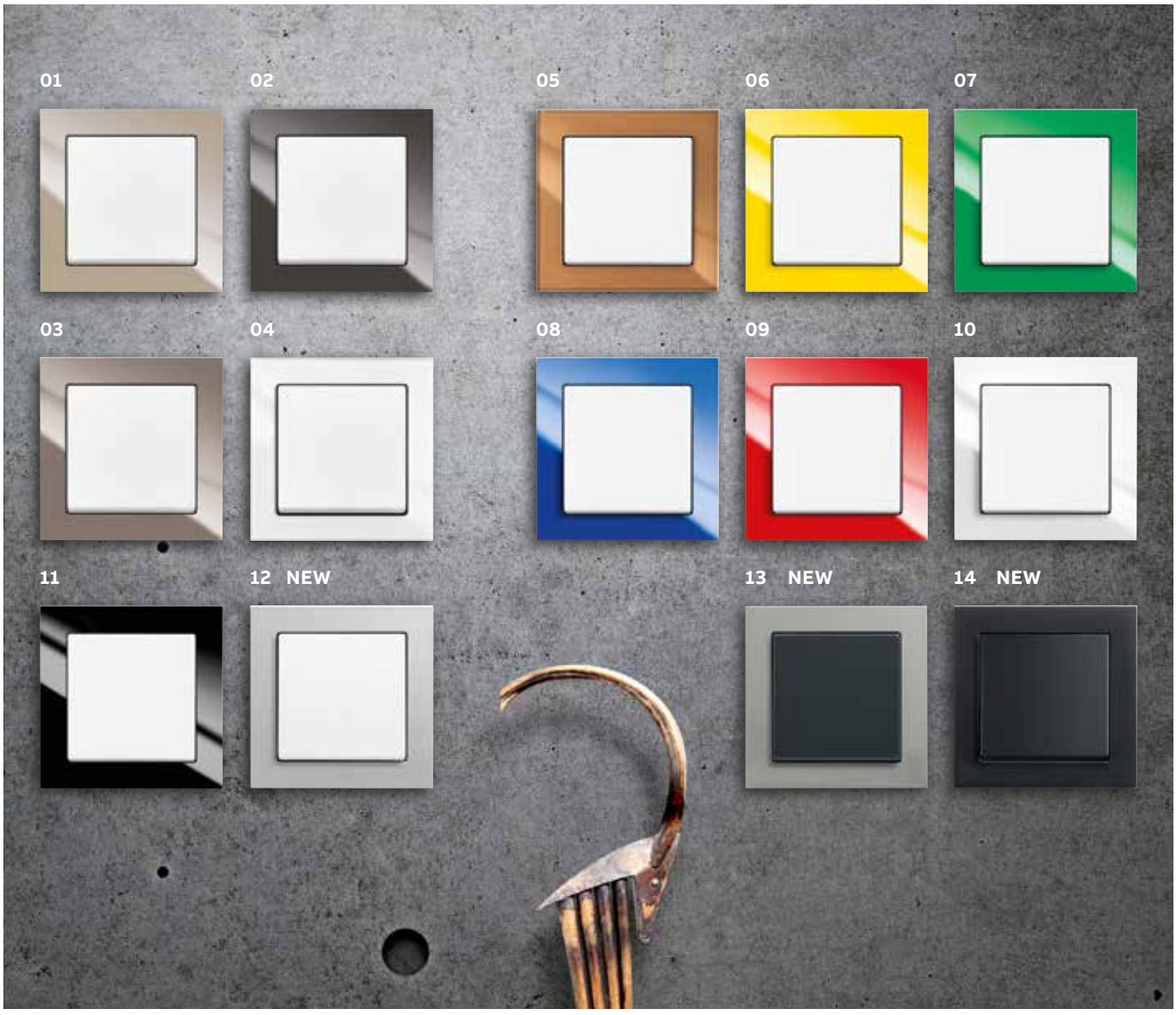
	**Cover frame** **4gang frame** For vertical or horizontal installation. Protection class (Device): IP 20 Dimensions: (L x W x D): 299 mm x 87 mm x 11 mm		
chrome	**1724-80**	2CKA001754A4107	1
chrome gloss	**1724-80G**	2CKA001754A4329	1
studio white	**1724-84**	2CKA001754A4112	1

	**Cover frame** **5gang frame** For vertical or horizontal installation. Protection class (Device): IP 20 Dimensions: (L x W x D): 370 mm x 87 mm x 11 mm		
chrome	**1725-80**	2CKA001754A4108	1
chrome gloss	**1725-80G**	2CKA001754A4330	1
studio white	**1725-84**	2CKA001754A4113	1

Busch-axcent®

Individuality with an accent.

Express yourself. Enjoy freedom with bright colours and high gloss surfaces. Such choice brings joy. Each room can have accessories in a different colour, each room can have a different personality. Straight lines and bold edges perfectly correspond with the modern style of furnishing. Primary colours can be used as a colour-key for quick and efficient organisation of appliances and equipment.

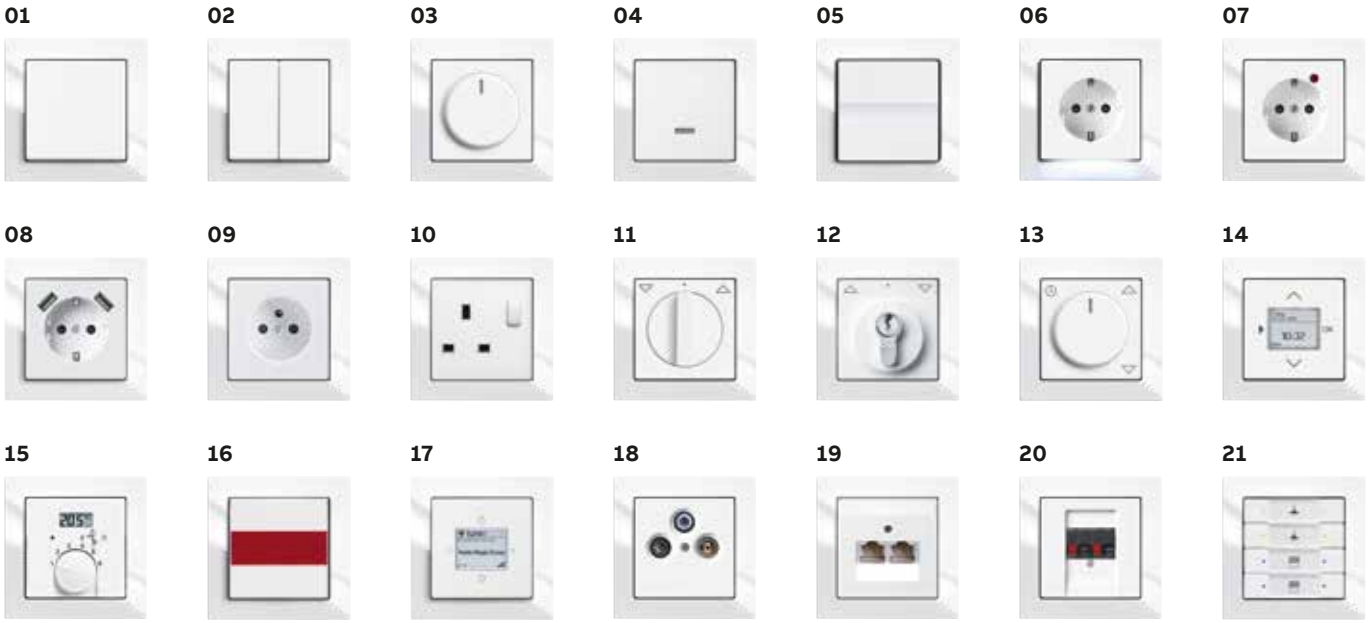


01 studio white / maison-beige
02 studio white / château-black
03 studio white / entrée-grey
04 studio white / white glass
05 studio white / brown glass
06 studio white / yellow
07 studio white / green
08 studio white / blue
09 studio white / red
10 studio white / white
11 studio white / black
12 studio white / titanium
13 anthracite / platinum
14 black matt / black

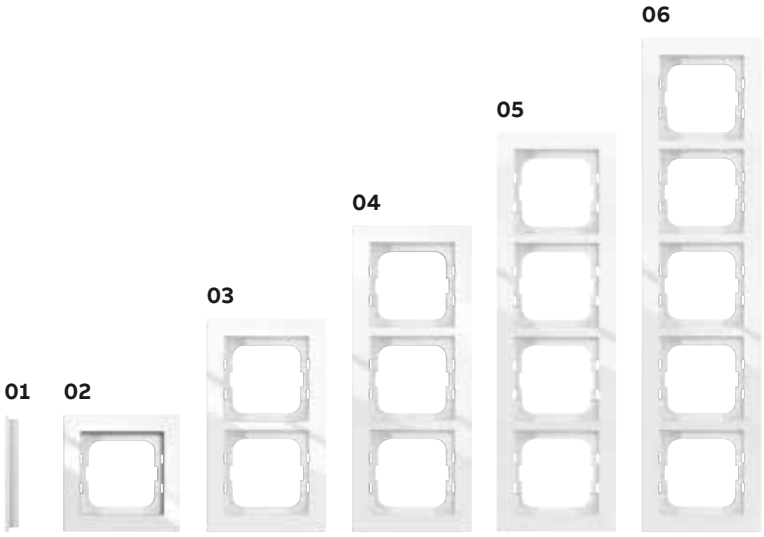
Materials
Cover: Thermoplastic cover (PC), impact-proof and fracture-resistant, UV-resistant, free of PVC and halogen.

Busch-axcent®

Selected functions.



01 Rocker switch 1gang
02 Rocker switch 2gang
03 Busch Universal Rotary Dimmer
04 Touch dimmer
05 Busch-Comfort switch
06 Busch-steplight®
07 Busch-Protector® SCHUKO® socket outlet with overvoltage protection
08 SCHUKO® USB socket outlet, 2x USB A
09 Socket outlet with earthing pin
10 Switched socket outlet BS standard
11 Blind switch with rotary knob
12 Busch-Blind control switch with semi-cylindrical lock
13 Busch-Blind comfort switch
14 Comfort timer
15 Room thermostat with display
16 Busch-Infoline® alarm insert
17 Busch-Radio iNet
18 Antenna socket for radio/TV/satellite
19 Universal data connection box
20 Stereo loudspeaker connecting box
21 KNX sensor, for more KNX products see part 12 of the catalogue - Intelligent Building Solutions



1 to 5gang cover frame for horizontal and vertical installation.
01 Side view, 11 mm x 91 mm
02 91 mm x 91 mm
03 91 mm x 162 mm
04 91 mm x 233 mm
05 91 mm x 304 mm
06 91 mm x 375 mm

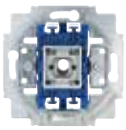
For more information about light switch ranges visit ABB global web sites.

Busch-axcent®

Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	1gang 2way		
	2000/6 US-500	2CKA001012A2198	10/100
	2gang 1way		
	2000/5 US-500	2CKA001012A1150	10/100
	DP, 1gang 2way [2]		
	2000/6/2 US	2CKA001012A0954	10
	1gang		
	2000/7 US-500	2CKA001012A2199	10/100
	DP, 1gang 1way		
	2000/2 US-500	2CKA001012A2196	10/100
	SP, 1gang 1way switch		
	2000/1 US-500	2CKA001012A2059	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] With screw-type terminals. Non-illuminable.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	Switch-off and two-way circuit 16 A		
	2400/6 US-500	2CKA001012A2232	10/100
	2gang switch 16 A		
	2400/5 US-500	2CKA001012A2234	10
	1gang intermediate 16 A		
	2400/7 US-500	2CKA001012A2236	10

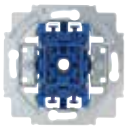
[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** **2gang 2way** With screwless terminals. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	2000/6/6US-101-500	2CKA001011A0928	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** **Changeover/changeover circuit 16 A** With screwless terminals. Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2400/6/6US-101-500	2CKA001022A0663	10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1] [2]** **DP, 1gang 1way** For switching high loads. Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2000/2 US-101-500	2CKA001012A2193	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Also for switching SCHUKO® socket outlets.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1] [2]** **3-pole, 1gang 1way switch** Rated voltage: 400 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2000/3 US	2CKA001011A0816	10

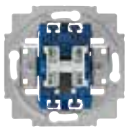
[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] With screw-type terminals. Non-illuminable.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** With neon lamp. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	1gang 2way [2]		
	2000/6 USGL-500	2CKA001012A2194	10/100
	2gang 1way		
	2000/5 USGL	2CKA001012A1135	10

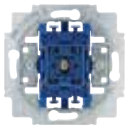
[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Replacement lamps 8360, 8362, and 8363 and LED inserts.

Busch-axcent®

Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism, control [1])** **2gang switch with N-clamp 16 A** with LED, Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2400/5 USK-500	2CKA001012A2238	10

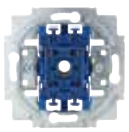
[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Rocker Switch Mechanism, control [1]) [2]) [3])** With neon lamp. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	1gang 2way with N-terminal		
	2000/6 USK-500	2CKA001022A0659	10/100
	DP, 1gang 1way		
	2000/2 UK	2CKA001022A0656	10

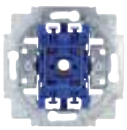
[1]) With 1 mA neon lamp.
[2]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[3]) Illuminable by using lamps 8360, 8362, 8363, 8365, 8366, and 8367 and LED inserts.

	**Rocker Switch Mechanism, control [1]) [2]) [3])** **Switch-off and two-way circuit with N-clamp 16 A** With neon lamp. Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2400/6 USK-500	2CKA001022A0661	10

[1]) With 1 mA neon lamp.
[2]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[3]) Illuminable by using lamps 8360, 8362, 8363, 8365, 8366, and 8367 and LED inserts.

	**Push-switch mechanism [1])** **SP, with normally open contact (operating current)** With N terminal. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 US-500	2CKA001413A0574	10/100

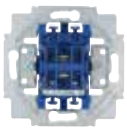
[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Push-switch mechanism [1])** **SP, with normally open contact (operating current)** With 2 independent signalling contacts. Rated voltage: 250 V~ Inputs: 1 Outputs: 1 Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 US-201	2CKA001413A0483	10

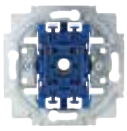
[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Push-switch mechanism [1]) [2]) [3])** **SP, with normally open contact (operating current)** With illumination. With N terminal. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 USGL-500	2CKA001413A1106	10/100

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2]) Replacement lamps 8360, 8362, and 8363 and LED inserts.
[3]) For relay and touch dimmer applications.

	**Push-switch mechanism [1])** With one input terminal and 2 actuating covers. Rated voltage: 250 V~ Inputs: 1 Outputs: 2x Normally open contact Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 US-205-500	2CKA001413A1105	10/100

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Push-switch mechanism [1])** **SP, 1gang 2way** Can be wired for normally open contacts (stand-by current) or normally closed contacts (operating current). With N terminal. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 US-206-500	2CKA001413A1104	10/100

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Busch-axcent®

Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	Rocker For flush-mounted switch 1g1w, 1g2w, intermediate, push switch. Protection class (Device): IP 20		
anthracite	**1786-81-500**	2CKA001751A3079	10/100
aluminium silver [1]	**1786-83-500**	2CKA001751A3075	10/100
studio white	**1786-84-500**	2CKA001751A3074	10/100
grey metallic [1]	**1786-803-500**	2CKA001751A3093	10/100
studio white, matt [1]	**1786-884-500**	2CKA001751A3089	10/100
black matt [1]	**1786-885-500**	2CKA001751A3094	10/100

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	Rocker For flush-mounted switch 2g 1w, 2g push switch. Protection class (Device): IP 20		
anthracite	**1785-81**	2CKA001751A2930	10
aluminium silver [1]	**1785-83-500**	2CKA001751A3092	10/100
studio white	**1785-84-500**	2CKA001751A3076	10/100
grey metallic [1]	**1785-803**	2CKA001751A3018	10/100
antique brass [2]	**1785-840-500**	2CKA001751A3117	10
black matt [1]	**1785-885**	2CKA001751A3038	10/100

[1] Surface painted.
[2] Real metal surface refined by hand.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker** As a cover for flush-mounted control 2gang switch. Protection class (Device): IP 20		
anthracite	**1785 K-81-500**	2CKA001751A3122	10
aluminium silver [1]	**1785 K-83-500**	2CKA001751A3126	10
studio white	**1785 K-84-500**	2CKA001751A3128	10
grey metallic [1]	**1785 K-803-500**	2CKA001751A3130	10
studio white, matt [1]	**1785 K-884-500**	2CKA001751A3135	10
black matt [1]	**1785 K-885-500**	2CKA001751A3137	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker** **with small red spherical cap** As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way. Protection class (Device): IP 20		
anthracite	**1789-81**	2CKA001751A2928	10
aluminium silver [1]	**1789-83**	2CKA001751A2945	10/100
studio white	**1789-84-500**	2CKA001751A3091	10/100
grey metallic [1]	**1789-803**	2CKA001751A3013	10
studio white, matt [1]	**1789-884**	2CKA001751A3033	10
black matt [1]	**1789-885**	2CKA001751A3047	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker** **with small transparent lens** As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way. Protection class (Device): IP 20		
anthracite	**1789 N-81**	2CKA001751A3147	10/100
aluminium silver [1]	**1789 N-83**	2CKA001751A3149	10/100
studio white	**1789 N-84-500**	2CKA001751A3151	10/100
grey metallic [1]	**1789 N-803**	2CKA001751A3146	10/100
studio white, matt [1]	**1789 N-884**	2CKA001751A3153	10/100
black matt [1]	**1789 N-885**	2CKA001751A3154	10/100

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** With >Light< icon. For flush-mounted switch 1g1w, 1g2w, intermediate, push switch. Protection class (Device): IP 20		
anthracite	**2520 LI-81**	2CKA001751A3186	10/100
aluminium silver [1]	**2520 LI-83**	2CKA001751A3188	10/100
studio white	**2520 LI-84-500**	2CKA001751A3190	10/100
grey metallic [1]	**2520 LI-803**	2CKA001751A3185	10/100
studio white, matt [1]	**2520 LI-884**	2CKA001751A3192	10/100
black matt [1]	**2520 LI-885**	2CKA001751A3193	10/100

[1] Surface painted.

Busch-axcent®

Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** With >Key< icon. For flush-mounted push switch. Protection class (Device): IP 20		
anthracite	**2520 TR-81**	2CKA001751A3196	10/100
aluminium silver [1])	**2520 TR-83**	2CKA001751A3198	10/100
studio white	**2520 TR-84**	2CKA001751A3199	10/100
grey metallic [1])	**2520 TR-803**	2CKA001751A3195	10/100
studio white, matt [1])	**2520 TR-884**	2CKA001751A3201	10/100
black matt [1])	**2520 TR-885**	2CKA001751A3202	10/100

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** With >Bell< icon. For flush-mounted push switch. Protection class (Device): IP 20		
anthracite	**2520 KI-81**	2CKA001751A3176	10/100
aluminium silver [1])	**2520 KI-83**	2CKA001751A3178	10/100
studio white	**2520 KI-84-500**	2CKA001751A3180	10/100
grey metallic [1])	**2520 KI-803**	2CKA001751A3175	10/100
studio white, matt [1])	**2520 KI-884**	2CKA001751A3182	10/100
black matt [1])	**2520 KI-885**	2CKA001751A3183	10/100

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** **with small transparent lens** With >Light< icon. As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way. Protection class (Device): IP 20		
anthracite	**1789 LI-81**	2CKA001751A2931	10
aluminium silver [1])	**1789 LI-83**	2CKA001751A2951	10
studio white	**1789 LI-84-500**	2CKA001751A3084	10/100
grey metallic [1])	**1789 LI-803**	2CKA001751A3014	10
studio white, matt [1])	**1789 LI-884**	2CKA001751A3031	10
black matt [1])	**1789 LI-885**	2CKA001751A3045	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** **with small transparent lens** With >Plug< icon. As cover for flush-mounted switch 1g1w DP and 3pole with neon lens and marking "I O" As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way. Protection class (Device): IP 20		
anthracite	**1789 ST-81**	2CKA001751A3157	10/100
aluminium silver [1])	**1789 ST-83**	2CKA001751A3159	10/100
studio white	**1789 ST-84-500**	2CKA001751A3161	10/100
grey metallic [1])	**1789 ST-803**	2CKA001751A3156	10/100
studio white, matt [1])	**1789 ST-884**	2CKA001751A3163	10/100
black matt [1])	**1789 ST-885**	2CKA001751A3164	10/100

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** **with small transparent lens** With >Key< icon. For flush-mounted push switch. Protection class (Device): IP 20		
anthracite	**1789 TR-81**	2CKA001751A2933	10
aluminium silver [1])	**1789 TR-83**	2CKA001751A2953	10
studio white	**1789 TR-84**	2CKA001751A2755	10
grey metallic [1])	**1789 TR-803**	2CKA001751A3016	10
studio white, matt [1])	**1789 TR-884**	2CKA001751A3032	10
black matt [1])	**1789 TR-885**	2CKA001751A3046	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** **with small transparent lens** With >Bell< icon. For flush-mounted push switch. Protection class (Device): IP 20		
anthracite	**1789 KI-81**	2CKA001751A2932	10
aluminium silver [1])	**1789 KI-83**	2CKA001751A2952	10
studio white	**1789 KI-84**	2CKA001751A2754	10
grey metallic [1])	**1789 KI-803**	2CKA001751A3015	10
studio white, matt [1])	**1789 KI-884**	2CKA001751A3030	10
black matt [1])	**1789 KI-885**	2CKA001751A3044	10

[1]) Surface painted.

Busch-axcent®

Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker [1] [2]** **with labelling field** With pilot lamp for uniform illumination of the labelling field. For flush-mounted switch 1g1w, 1g2w, intermediate, push switch. Size of labelling field: 59.7 x 11.7 mm. Protection class (Device): IP 20		
anthracite	**1764 NLI-81**	2CKA001731A1552	10
aluminium silver [3]	**1764 NLI-83**	2CKA001731A1948	10
studio white	**1764 NLI-84**	2CKA001731A1877	10/100
grey metallic [3]	**1764 NLI-803**	2CKA001731A1975	10
studio white, matt [3]	**1764 NLI-884**	2CKA001731A1985	10
black matt [3]	**1764 NLI-885**	2CKA001731A1982	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Illumination using neon lamp 8353 or incandescent lamp 8344-1 and LED inserts.
[3] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker [1] [2]** **with labelling field** With >Bell< icon. With pilot lamp for uniform illumination of the labelling field. For flush-mounted push switch. Size of labelling field: 59.7 x 11.7 mm. Protection class (Device): IP 20		
anthracite	**1764 NLI/KI-81**	2CKA001731A3998	10/100
aluminium silver [3]	**1764 NLI/KI-83**	2CKA001731A4000	10/100
studio white	**1764 NLI/KI-84-500**	2CKA001731A4002	10/100
grey metallic [3]	**1764 NLI/KI-803**	2CKA001731A3997	10/100
studio white, matt [3]	**1764 NLI/KI-884**	2CKA001731A4004	10/100
black matt [3]	**1764 NLI/KI-885**	2CKA001731A4005	10/100

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Illumination using neon lamp 8353 or incandescent lamp 8344-1 and LED inserts.
[3] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** **with small red spherical cap** With imprint >0< and >I<. As cover for 2-pole or 3-pole flush-mounted on-off switch and 2-pole control on-off switch. Protection class (Device): IP 20		
anthracite	**1788-81**	2CKA001751A2927	10
aluminium silver [1]	**1788-83**	2CKA001751A2954	10
studio white	**1788-84**	2CKA001751A2750	10/100
grey metallic [1]	**1788-803**	2CKA001751A3017	10
studio white, matt [1]	**1788-884**	2CKA001751A3028	10
black matt [1]	**1788-885**	2CKA001751A3042	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** **with small red spherical cap** With >Heating< imprint. As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way. As cover for 2-pole or 3-pole flush-mounted on-off switch and 2-pole control on-off switch. Protection class (Device): IP 20		
anthracite	**1789 H-81**	2CKA001751A2929	10
aluminium silver [1]	**1789 H-83**	2CKA001751A2955	10
studio white	**1789 H-84**	2CKA001751A2751	10
grey metallic [1]	**1789 H-803**	2CKA001751A3019	10
studio white, matt [1]	**1789 H-884**	2CKA001751A3029	10
black matt [1]	**1789 H-885**	2CKA001751A3043	10

[1] Surface painted.

	**Card switch 10 A [1]** **SP, with normally open contact (operating current)** Illuminable. With N terminal. Rated voltage: 250 V~ Rated current: 10 A Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20IEC60669-1, British Standard EN 60669-1		
	2025 U	2CKA001012A1713	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
delivery form:	Adapter plate APBS to be ordered separate.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For card switch. For insert 2025 U. Suitable for cards sized 54 x 86 mm. The inner part of the cover plate is made of light-conducting plastic, so that the card slot is illuminated. Protection class (Device): IP 20		
anthracite	**1792-81**	2CKA001710A3639	10
aluminium silver [1]	**1792-83**	2CKA001710A3670	10
studio white	**1792-84**	2CKA001710A3641	10
grey metallic [1]	**1792-803**	2CKA001710A4124	10
studio white, matt [1]	**1792-884**	2CKA001710A3928	10
black matt [1]	**1792-885**	2CKA001710A3905	10

[1] Surface painted.

Busch-axcent®

Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** For flush-mounted switch 1g1w, 1g2w, intermediate, push switch. DO NOT DISTURB Protection class (Device): IP 20		
anthracite	**1786/11-81**	2CKA001751A3207	10
aluminium silver [1]	**1786/11-83**	2CKA001751A3001	10
studio white	**1786/11-84**	2CKA001751A2998	10
grey metallic [1]	**1786/11-803**	2CKA001751A3206	10
studio white, matt [1]	**1786/11-884**	2CKA001751A3026	10
black matt [1]	**1786/11-885**	2CKA001751A3040	10

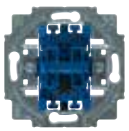
[1] Surface painted.

	**Switch rocker with marking** For flush-mounted switch 2g 1w, 2g push switch. DO NOT DISTURB MAKE UP ROOM Protection class (Device): IP 20		
anthracite	**1785/11-81**	2CKA001751A3205	10
aluminium silver [1]	**1785/11-83**	2CKA001751A2995	10
studio white	**1785/11-84**	2CKA001751A2992	10
grey metallic [1]	**1785/11-803**	2CKA001751A3204	10
studio white, matt [1]	**1785/11-884**	2CKA001751A3023	10
black matt [1]	**1785/11-885**	2CKA001751A3037	10

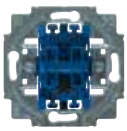
[1] Surface painted.

	**Switch rocker with marking** As cover for flush-mounted rocker control switch insert, DND/MUR. DO NOT DISTURB MAKE UP ROOM Protection class (Device): IP 20		
anthracite	**1785/11 K-81**	2CKA001751A3212	10
aluminium silver [1]	**1785/11 K-83**	2CKA001751A3210	10
studio white	**1785/11 K-84**	2CKA001751A3209	10
grey metallic [1]	**1785/11 K-803**	2CKA001751A3215	10
studio white, matt [1]	**1785/11 K-884**	2CKA001751A3211	10
black matt [1]	**1785/11 K-885**	2CKA001751A3213	10

[1] Surface painted.

	**Rocker switch insert DND/MUR [1]** with LED, Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	2028 UK	2CKA001012A2240	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker switch insert DND/MUR [1]** with LED, Rated voltage: 24 V Rated current: 6 A Protection class (Device): IP 20 IEC 60669-1		
	2028/12 UK	2CKA001012A2241	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Bell push-switch DND/MUR 230 V [1]** with LED, Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
anthracite	**2029 UC-81**	2CKA001751A3167	1
aluminium silver [2]	**2029 UC-83**	2CKA001751A3169	1
studio white	**2029 UC-84**	2CKA001751A3170	1
grey metallic [2]	**2029 UC-803**	2CKA001751A3166	1
studio white, matt [2]	**2029 UC-884**	2CKA001751A3172	1
black matt [2]	**2029 UC-885**	2CKA001751A3173	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Surface painted.

	**Bell push-switch DND/MUR 24 V [1]** with LED, Rated voltage: 24 V Rated current: 6 A Protection class (Device): IP 20 IEC 60669-1		
anthracite	**2029/12 UC-81**		1
aluminium silver [2]	**2029/12 UC-83**	2CKA001751A3232	1
studio white	**2029/12 UC-84**	2CKA001751A3231	1
grey metallic [2]	**2029/12 UC-803**	2CKA001751A3237	1
studio white, matt [2]	**2029/12 UC-884**	2CKA001751A3233	1
black matt [2]	**2029/12 UC-885**	2CKA001751A3235	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Surface painted.

	**Pull switch [1]** **SP, with normally open contact (operating current)** With 2-metre pull cord, red handle, and red neon indicator. Rated voltage: 250 V~ Rated current: 10 A		
	2020/01 US-101	2CKA001413A1112	10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Busch-axcent®

Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Pull switch [1]** **SP, break contact** With 2-metre pull cord, red handle, and red neon indicator. Rated voltage: 250 V~ Rated current: 10 A		
	2020/10 US-101	2CKA001413A1111	10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Cover plate [1]** **for pull switch 2610/6 UC-xx, 2610/6 UJ-xx** With screw-type terminal Protection class (Device): IP 20		
anthracite	**1796-81**	2CKA001753A0308	10
aluminium silver [2]	**1796-83**	2CKA001753A0310	10
studio white	**1796-84**	2CKA001753A0311	10
grey metallic [2]	**1796-803**	2CKA001753A0307	10
studio white, matt [2]	**1796-884**	2CKA001753A0313	10
black matt [2]	**1796-885**	2CKA001753A0314	10

[1] Exchanging the available cover/cover plate.
[2] Surface painted.

	Rocker **open for red pull switch neon indicator** For pull switch 2020/xx US. Protection class (Device): IP 20		
anthracite	**1720-81**	2CKA001731A1914	10
aluminium silver [1]	**1720-83**	2CKA001731A1949	10
studio white	**1720-84**	2CKA001731A1916	10
studio white, matt [1]	**1720-884**	2CKA001731A1979	10
black matt [1]	**1720-885**	2CKA001731A1981	10

[1] Surface painted.

	**Three-step rotary switch [1] [2]** **SP, with zero position** With zero position. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
	2710 U	2CKA001101A0918	1/10

[1] Install only in conjunction with wall boxes ø 60 mm.
[2] Not to be mounted in SM box 1701-xxx, 1702-xxx, 1703-xxx.

	**Three-step rotary switch [1] [2]** **SP, without zero position** Without zero position. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
	2710/1 U	2CKA001101A0919	1/10

[1] Install only in conjunction with wall boxes ø 60 mm.
[2] Not to be mounted in SM box 1701-xxx, 1702-xxx, 1703-xxx.

	**Cover plate** **with rotary control, with marking** As cover for flush mounted three-step rotary switch. With zero position. For insert 2710 U. Protection class (Device): IP 20		
anthracite	**2542 DR/01-81**	2CKA001710A3644	10
aluminium silver [1]	**2542 DR/01-83**	2CKA001710A3671	10
studio white	**2542 DR/01-84**	2CKA001710A3646	10
grey metallic [1]	**2542 DR/01-803**	2CKA001710A4125	10
studio white, matt [1]	**2542 DR/01-884**	2CKA001710A3890	10
black matt [1]	**2542 DR/01-885**	2CKA001710A3913	10

[1] Surface painted.

	**Cover plate** **with rotary control, with marking** As cover for flush mounted three-step rotary switch. Without zero position. For insert 2710/1 U. Protection class (Device): IP 20		
anthracite	**2542 DR/02-81**	2CKA001710A3649	10
aluminium silver [1]	**2542 DR/02-83**	2CKA001710A3672	10
studio white	**2542 DR/02-84**	2CKA001710A3651	10
grey metallic [1]	**2542 DR/02-803**	2CKA001710A4126	10
studio white, matt [1]	**2542 DR/02-884**	2CKA001710A3891	10
black matt [1]	**2542 DR/02-885**	2CKA001710A3914	10

[1] Surface painted.

Busch-axcent®
Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**Comprising Friends of Hue smart switch insert** Comprising 2gang rocker 6736 FoH-8xx for Friends of Hue smart switch. Consisting of 1gang future® linear cover frames. Comprising fixing plate and intermediate ring. Smarter light switches for wireless remote control of Philips Hue lamps For switching and dimming of Philips Hue lamps. For saving, calling up and dimming of a maximum of 2 individual light scenes. Without battery and maintenance-free due to >Energy harvesting<. Can be mounted freely in the room with the enclosed adhesive tape and fixing plate. Requires Philips Hue Bridge (2nd generation square construction type) and Philips Hue app (Version 3.2 or higher). Maximum safety of function by means of Zigbee-Mesh technology.		
	6716 UJ-84-500	2CKA006710A0011	1
	6716 UJ-885-500	2CKA006710A0018	1
	**Friends of Hue smart switch insert** **Wall-mounted transmitter, 2 channel** For Friends of Hue smart switch Rocker 6736 FoH-8xx. Smarter light switches for wireless remote control of Philips Hue lamps For switching and dimming of Philips Hue lamps. For saving, calling up and dimming of a maximum of 2 individual light scenes. Without battery and maintenance-free due to >Energy harvesting<. Maximum safety of function by means of Zigbee-Mesh technology. Requires Philips Hue Bridge (2nd generation; square construction type) and Philips Hue app (Version 3.2 or higher). Combinable with the Busch-Jaeger switch ranges carat®, Busch-dynasty®, pure stainless steel, solo®, Busch-axcent® and future® linear. Can be mounted freely in the room with the enclosed adhesive tape and fixing plate. Including fixing plate for mounting on smooth walls or on switch boxes.		
	6716 U-500	2CKA006710A0014	1
	Rocker For Friends of Hue smart switch insert 6716 U-500. Combinable with the Busch-Jaeger switch ranges carat®, Busch-dynasty®, pure stainless steel, solo®, Busch-axcent® and future® linear.		
anthracite	**6736 FoH-81**	2CKA006730A0133	1
aluminium silver [1])	**6736 FoH-83**	2CKA006730A0135	1
studio white	**6736 FoH-84**	2CKA006730A0136	1
grey metallic [1])	**6736 FoH-803**	2CKA006730A0137	1
studio white, matt [1])	**6736 FoH-884**	2CKA006730A0140	1
black matt [1])	**6736 FoH-885**	2CKA006730A0141	1

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-rotary dimmer [1]) [2]) [3]) [4]) [5]) [6]) [7]) [8]) [9])** **Flush-mounted, LED, 2-100 W** With rotary control, two-way switch and soft-catch. 2-wire connection (neutral conductor not required) Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. Via mode switch adjustable between leading edge control and trailing edge control. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. With adjustable minimum brightness. Without cover plate. Rated voltage: 230 V~, + 10% / - 10% Rated frequency: 50 Hz/60 Hz Nominal power: 2 - 100 W/VA (retrofit LED loads). Nominal power: 10 - 250 W/VA (non-LED loads). Protection class (Device): IP 20 Temperature range (Device): 0 °C to 35 °CIEC 60669-2-1, British Standard EN 60669-2-1 		
	6523 U-102-500	2CKA006512A0335	1/10

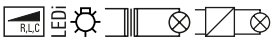
[1]) Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2]) In the case of conventional transformers, take ~20% transformer loss into account.
[3]) In case of electronic transformers, 5 % transformer losses.
[4]) Also applicable for 1gang 2way installations.
[5]) Provided with terminal for net disconnection devices.
[6]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[7]) Recommendation: Please use loads and types of one producer.
[8]) The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[9]) A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

Busch-axcent®
Dimmers

Product	Article-No.	Order-No.	Pack/Qty



Busch-rotary dimmer [1] [2] [3] [4] [5] [6] [7] [8] [9]
UP, LED, 2-400 W
Very small installation depth: < 20 mm
Without claws.
With rotary control, two-way switch and soft-catch.
2-wire connection (neutral conductor not required)
Optimised for dimming of retrofit LED lamps (LEDi).
For dimmable Retrofit-LEDs (LEDi).
For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers.
For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps.
Mix operaton of LEDi with conventional loads possible.
With manually adjustable operating mode: trailing / leading edge control.
With adjustable minimum/maximum brightness.
Low-noise level by MOSFET transistors.
With electronic short-circuit protection.
With electronic overload protection.
Without cover plate.
Rated voltage: 230 V~, + 10% / - 10%
Rated frequency: 50 Hz/60 Hz
Nominal power: 2 - 100 W/VA (leading edge control)
Nominal power: 2 - 400 W/VA (trailing edge control)
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °CIEC 60669-2-1, British Standard EN 60669-2-1



	6523 UR-103-500	2CKA006512A0345	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] In case of electronic transformers, 5 % transformer losses.
[4] Also applicable for 1gang 2way installations.
[5] Provided with terminal for net disconnection devices.
[6] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[7] Recommendation: Please use loads and types of one producer.
[8] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[9] A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.



END OF LIFE

Busch-rotary dimmer [1] [2] [3] [4]
flush mounted, R, 60-600 W
With rotary control, 2way On-Off switching and soft-catch.
Leading Edge control.
For incandescent lamps and 230 V tungsten halogen lamps.
With adjustable minimum brightness.
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 60 - 600 W
IEC 60669-2-1, British Standard EN 60669-2-1



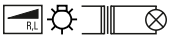
	2250 U-500	2CKA006515A0848	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] Also applicable for 1gang 2way installations.
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Provided with terminal for net disconnection devices.

Product	Article-No.	Order-No.	Pack/Qty



Busch-rotary dimmer [1] [2] [3] [4] [5]
flush mounted, RL, 20-500 W
With rotary control, 2way On-Off switching and soft-catch.
Leading Edge control.
For incandescent lamps, 230 V tungsten halogen lamps and low-volt halogen lamps with conventional transformer.
With adjustable minimum brightness.
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 20 - 500 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1

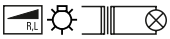


	2247 U-500	2CKA006512A0302	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] Provided with terminal for net disconnection devices.
[4] Also applicable for 1gang 2way installations.
[5] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)



Busch-rotary dimmer [1] [2] [3] [4] [5] [6]
UP, RL, 200-700 W
With rotary control, 2way On-Off switching and soft-catch.
Leading Edge control.
For incandescent lamps, 230 V tungsten halogen lamps and low-volt halogen lamps with conventional transformer.
Short-circuit-proof, overload-protected.
With adjustable minimum brightness.
Without cover plate.
Without claws.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 200 - 700 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1



	6520 U-500	2CKA006520A0227	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] Provided with terminal for net disconnection devices.
[4] Also applicable for 1gang 2way installations.
[5] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[6] Should be mounted in a seperate wallbox.

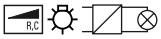
Busch-axcent®
Dimmers

Product	Article-No.	Order-No.	Pack/Qty



END OF LIFE

Busch-rotary dimmer [1] [2] [3] [4] [5] [6]
flush mounted, RC, 40-420 W
With rotary control, soft-catch and with trailing edge control.
For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with electronic transformers.
Low-noise, short-circuit-proof, overload-protected.
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 40 - 420 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1



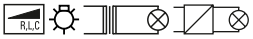
6513 U-102-500	2CKA006513A0586	1/10

[1] Not suitable with conventional transformers.
[2] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[3] In case of electronic transformers, 5 % transformer losses.
[4] Provided with terminal for net disconnection devices.
[5] Also applicable for 1gang 2way installations.
[6] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)



END OF LIFE

Busch-rotary dimmer [1] [2] [3] [4] [5]
flush mounted, RLC, 60-420 W
with soft-catch
With intelligence for universal operation.
For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers.
Short-circuit-proof, overload-protected.
Capacity expansion via output-side, parallel connectable load line with a power module 6594 U up to 735 W/VA possible. Operation via rotary-type remote control 6592 U possible, Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Rated power: 60 - 420 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1



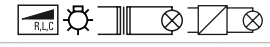
6591 U-101-500	2CKA006513A0588	1/10

[1] Illuminable with neon lamp 3855. Neon lamp included in delivery with cover plate.
[2] In case of electronic transformers, 5 % transformer losses.
[3] In the case of conventional transformers, take ~20% transformer loss into account.
[4] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[5] Cannot be combined with a 2way switch.



END OF LIFE

Busch-rotary dimmer, extension [1] [2]
flush mounted
for connection to 6591 U-101,
To be used with Busch-Dimmer®, MDRC 6583.
with soft-catch
A maximum of 5 multi-way extensions can be connected to a 6591U-101,
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz



6592 U-500	2CKA006513A0590	1

[1] Control elements 2115-xxx and 6540-xxx.
[2] Required for illuminating the N-connection control element.

Product	Article-No.	Order-No.	Pack/Qty



Busch-rotary dimmer [1] [2] [3] [4]
flush mounted, 1-10V
With rotary control.
For controlling ballast units for fluorescent lamps with control output 1-10 V DC, control current max. 50 mA DC.
For LED control via control gears
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Rated power: 700 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1

2112 U-101-500	2CKA006599A2873	1/10

[1] Non-illuminable.
[2] Use cover plates 2115 J-.../2115-.../6540-... .
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Making-current limiters have to be provided in case of too high making currents.



Busch-rotary dimmer [1]
Flush-mounted, DALI, tunable white
For DALI broadcast service (via central telegram).
For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface.
With rotary control and ON/OFF push operation.
Fool proved.
For changing the colour temperature of >tunable white< lamps, which meet DALI Standard IEC 62386-209 (Device Type 8).
Colour temperature can then be set between 2,700 K - 6,500 K.
Brightness power-on level and backround brightness level adjustable, buffered.
With integrated LED illumination for orientation.
Color of orientation light adjustable (18 presets and OFF).
Up to 5 potentiometers are connectable in parallel.
Max. current consumption: 15 mA.
Not suitable for combining with other DALI sensors or central units of other manufacturers.
For the generation of the DALI voltage a power supply according to IEC 62386 is required; e.g. from Tridonic, Philips, Helvar or BJE article no. 2116/11 U.
Max. DALI-cable length: 300 m (1,5 - 2,5 mm²).
Without cover plate.
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °C

2116 U	2CKA006599A3025	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Busch-axcent®
Dimmers

Product	Article-No.	Order-No.	Pack/Qty



Busch-rotary dimmer [1])
Flush-mounted, DALI, with internal power supply, tunable white
For DALI broadcast service (via central telegram).
With integrated DALI power adaptor.
For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface.
With rotary control and ON/OFF push operation.
For changing the colour temperature of >tunable white< lamps, which meet DALI Standard IEC 62386-209 (Device Type 8).
Colour temperature can then be set between 2,700 K - 6,500 K.
With electronic short-circuit protection.
With electronic overload protection.
Brightness power-on level and backround brightness level adjustable, buffered.
With integrated LED illumination for orientation.
Color of orientation light adjustable (18 presets and OFF).
Up to 5 potentiometers are connectable in parallel.
Up to 3 potentiometers are connectable in parallel in active mode.
Not suitable for combining with other DALI sensors or central units of other manufacturers.
DALI-voltage: 15,5 V=
Rated current: max. 75 mA
Power consumption: < 2,5 W
Number of DALI-units:
37 in case of one active power-potentiometer
in case of three active power-potentiometer in parallel connection: 111
Active mode: the potentiometer is supporting the necessary control circuit for other DALI-devices.
Passive mode: the potentiometer is suitable as additional operation point.
Max. DALI-cable length: 300 m (1,5 - 2,5 mm²).
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °C

	2116/11 U	2CKA006599A3026	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty



Busch-rotary dimmer [1])
flush mounted, DALI
For DALI broadcast service (via central telegram).
For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface.
With rotary control and ON/OFF push operation.
Fool proved.
Brightness power-on level and backround brightness level adjustable, buffered.
With integrated LED illumination for orientation.
Color of orientation light adjustable (18 presets and OFF).
Up to 5 potentiometers are connectable in parallel.
Max. current consumption: 15 mA.
Not suitable for combining with other DALI sensors or central units of other manufacturers.
An additional DALI power supply is needed, e.g. by Tridonic, Philips, Helvar or 2117/11 U.
Max. DALI-cable length: 300 m (1,5 - 2,5 mm²).
Without cover plate.
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °C

	2117 U-500	2CKA006599A2987	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)



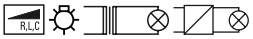
Busch-rotary dimmer [1])
flush mounted, DALI, with internal power supply
For DALI broadcast service (via central telegram).
With integrated DALI power adaptor.
For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface.
With rotary control and ON/OFF push operation.
With electronic short-circuit protection.
With electronic overload protection.
Brightness power-on level and backround brightness level adjustable, buffered.
With integrated LED illumination for orientation.
Color of orientation light adjustable (18 presets and OFF).
Up to 5 potentiometers are connectable in parallel.
Up to 3 potentiometers are connectable in parallel in active mode.
Not suitable for combining with other DALI sensors or central units of other manufacturers.
DALI-voltage: 15,5 V=
Rated current: max. 75 mA
Power consumption: < 2,5 W
Number of DALI-units:
37 in case of one active power-potentiometer
in case of three active power-potentiometer in parallel connection: 111
Active mode: the potentiometer is supporting the necessary control circuit for other DALI-devices.
Passive mode: the potentiometer is suitable as additional operation point.
Max. DALI-cable length: 300 m (1,5 - 2,5 mm²).
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °C

	2117/11 U-500	2CKA006599A2988	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Busch-axcent®

Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-touch dimmer [1] [2] [3] [4]** **flush mounted, RLC, 60-420 W** With light-level memory and intelligence for universal operation. Selectable Soft-ON/OFF function and memory function. Capacity expansion via output-side, parallel connectable load line with a power module 6594 U up to 735 W/VA possible. For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers. Short-circuit-proof, overload-protected. With touch control. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Without control cover. For control cover with control lamp 6543-xxx-10x. For Busch-Remote control IR control cover 6066-xxx-10x. For comfort timer control element 6455-101-500. For Busch-Watchdog 180 flush-mounted Sensor Standard 6810-21x-101. For Busch-Watchdog 180 flush-mounted sensor Comfort II 6800-xxx-104 and 6800-xxx-104M. For Busch-Watchdog Presence tech 6813-xxx-101 und 6813/11-xxx. Combinable with Busch-Watchdog extension insert 6805 U. Rated voltage: 230 V~, +10 % / -10 %. Rated frequency: 50 Hz. Rated power: 60 - 420 W. Rated power: 60 - 420 W/VA. IEC 60669-2-1, British Standard EN 60669-2-1 		
	6593 U-500	2CKA006590A0171	1/10

[1] In the case of conventional transformers, take ~20% transformer loss into account.
[2] In case of electronic transformers, 5 % transformer losses.
[3] In conjunction with 6800-xxx-104 (M) a Soft Off can be adjusted.
[4] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Dimmer®, capacity booster [1]** **flush mounted, RLC, 200-315 W** The control is effected by a Busch-Universal master dimmer 6593 U or Busch-Universal rotary dimmer 6591U-101. For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers. Can only be installed in conjunction with a cover plate 2114-xxx and 6541-xxx. Without cover plate. Rated voltage: 230 V~, +10 % / -10 %. Rated frequency: 50 Hz. Rated power: 200 - 315 W/VA. IEC 60669-2-1, British Standard EN 60669-2-1 		
	6594 U-500	2CKA006590A0172	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1]** **with rotary knob, with indication lamp** Elevated knob. With transparent luminous ring. For Busch-Dimmer®. For inserts 2112 U-101/2247 U/2250 U/6513 U-102/6517 U-10x/ 6519 U/6520 U/6523 U(R)(10x) /6591 U-10x and 6592 U.		
anthracite	**6540-81-102**	2CKA006599A2950	10
aluminium silver [2]	**6540-83-102**	2CKA006599A2952	10/100
studio white	**6540-84-102-500**	2CKA006599A3009	10/100
grey metallic [2]	**6540-803-102**	2CKA006599A2980	10
studio white, matt [2]	**6540-884-102**	2CKA006599A2961	10/100
black matt [2]	**6540-885-102**	2CKA006599A2966	10/100

[1] Replacement neon lamp, Art. No. 3855.
[2] Surface painted.

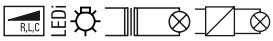
Product	Article-No.	Order-No.	Pack/Qty
	**Control element [1] [2] [3]** **with neon lamp** Can be combined with LED dimmer 6524 U, and 6526 U, Busch-Universal touch-type controller 6550 U-10x, Busch-Memory touch dimmer 6560 U-101, Busch-Universal-Dimmer® 6593 U, Busch-Universal relay insert 6401 U-10x, Busch-Universal 2gang insert 6402 U.		
anthracite	**6543-81-101**	2CKA006599A2881	1/10
aluminium silver [4]	**6543-83-101**	2CKA006599A2887	1/10
studio white	**6543-84-101-500**	2CKA006599A3010	1/10
grey metallic [4]	**6543-803-101**	2CKA006599A2942	1/10
studio white, matt [4]	**6543-884-101**	2CKA006599A2963	1/10
black matt [4]	**6543-885-101**	2CKA006599A2968	1/10

[1] Compatible with previous type 6543-xxx.
[2] Touch-type Controller 6550 U-xxx non-illuminable.
[3] Replacement neon lamp 3857.
[4] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **for cooling element** For Busch-Universal master dimmer power module 6594 U. For KNX room temperature controller object 6109/08.		
anthracite	**6541-81**	2CKA006599A2882	10
aluminium silver [1]	**6541-83**	2CKA006599A2885	10
studio white	**6541-84**	2CKA006599A2835	10
grey metallic [1]	**6541-803**	2CKA006599A2940	10
studio white, matt [1]	**6541-884**	2CKA006599A2962	10
black matt [1]	**6541-885**	2CKA006599A2967	10

[1] Surface painted.

Busch-axcent®
Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**LED dimmer insert flex, 1gang [1] [2] [3] [4] [5] [6] FM, LED, 3-240 VA** 2-wire connection (neutral conductor not required).Neutral conductor optionally connectable (recommended for the connection of low loads < 10 W/VA). Touch dimmer for switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. With manually adjustable operating mode: trailing / leading edge control. With adjustable minimum brightness. With light-level memory and minimum brightness memory. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. Without control cover. For control element flex, 1gang, 64711. For control element flex, 2gang, 64721. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Rated power: 3-240 VA (LEDi). Rated voltage: 230 V~, +10 % / -10 %. Rated frequency: 50 Hz. Inputs: 1. Outputs: 1x dimming channel. Suitable for: 230 V LEDi, typical (leading edge control). Rated power: 3 - 100 VA. Suitable for: 230 V LEDi, typical (trailing edge control). Rated power: 3 - 240 W. Suitable for: 230 V incandescent lamps, 230 V halogen lamps and low-voltage halogen lamps with conventional transformers or Busch Electronic Transformer. Rated power: 10 - 240 VA.Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm. Mounting depth: 25 mmIEC 60669-2-1, British Standard EN 60669-2-1 		
	64851 U-500	2CKA006500A0013	1

[1] In the case of conventional transformers, take ~20% transformer loss into account.
[2] In case of electronic transformers, 5 % transformer losses.
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Recommendation: Please use loads and types of one producer.
[5] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[6] A liability on the part of Buscah-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

	**Control element, 1 gang flex** Tapping control element, 1gang. Compatible with all free@home flex inserts. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64711-500	2CKA006400A0099	1
	**Control element, 1 gang, flex wireless** Tapping control element, 1gang. For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62711-WL-500	2CKA006200A0281	1

Product	Article-No.	Order-No.	Pack/Qty
	**Flex control element, 2 gang flex** Tapping control element, 2gang For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64721-500	2CKA006400A0101	1
	**Control element, 2 gang, flex wireless** Tapping control element, 2gang For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62721-WL-500	2CKA006200A0283	1



Rocker
1gang, with “Dimmer” icon
As cover for ABB-free@home® sensor units and sensor/actuator units

anthracite	SRD-1-81	2CKA006220A0149	1
aluminium silver	SRD-1-83	2CKA006220A0150	
studio white	SRD-1-84	2CKA006220A0151	1
grey metallic	SRD-1-803	2CKA006220A0554	1
studiowh. matt	SRD-1-884	2CKA006220A0605	1
black matt	SRD-1-885	2CKA006220A0622	



Rocker
2gang left, with “Dimmer” icon
As cover for ABB-free@home® sensor units and sensor/actuator units

anthracite	SRD-2-L-81	2CKA006220A0164	1
aluminium silver	SRD-2-L-83	2CKA006220A0165	1
studio white	SRD-2-L-84	2CKA006220A0166	1
grey metallic	SRD-2-L-803	2CKA006220A0559	
studiowh. matt	SRD-2-L-884	2CKA006220A0610	1
black matt	SRD-2-L-885	2CKA006220A0627	1

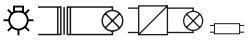


Rocker
2gang right, with “Scene” icon
As cover for ABB-free@home® sensor units and sensor/actuator units

anthracite	SRS-2-R-81	2CKA006220A0173	1
aluminium silver	SRS-2-R-83	2CKA006220A0174	1
studio white	SRS-2-R-84	2CKA006220A0175	1
grey metallic	SRS-2-R-803	2CKA006220A0562	
studiowh. matt	SRS-2-R-884	2CKA006220A0613	1
black matt	SRS-2-R-885	2CKA006220A0630	1

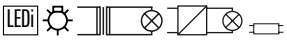
Busch-axcent®

Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Proximity switch** 3 wire connection (neutral conductor required). Relay insert with proximity sensor. For contactless ON/OFF switching of electric loads, e.g. lights. For switching incandescent lamps, 230 V tungsten halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are actuated via transformers. Switches when detecting an approach at < approx. 5 cm. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V incandescent lamps, 230 V halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are operated via transformers. Rated current: 10 AX Rated power: 2300 W/VA Temperature range (Device): -25 °C to 55 °CBritish Standard EN 60669-2-1 		
	6406 U	2CKA006400A0034	1

	Cover plate **Proximity switch** For proximity switch 6406 U.		
anthracite	**6476-81**	2CKA006470A0007	1/10
aluminium silver [1])	**6476-83**	2CKA006470A0008	10
ivory white	**6476-82**	2CKA006470A0003	10
studio white	**6476-84**	2CKA006470A0004	10
grey metallic [1])	**6476-803**	2CKA006470A0006	10
studio white, matt [1])	**6476-884**	2CKA006470A0010	10
black matt [1])	**6476-885**	2CKA006470A0011	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Relay insert flex, 1gang [1])** 3 wire connection (neutral conductor required). For switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Comfort switch flex control element 64765-... . For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with extension insert, 64891 U. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 1 Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V- LEDi, typical. Rated power: 300 VA Suitable for: 230 V incandescent lamps/230 V halogen lamps Rated power: 2300 W Suitable for: Low voltage halogen lamps that are operated via transformers. Rated power: 2300 VA Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm Mounting depth: 25 mm 		
	64811 U-500	2CKA006800A3042	1/10

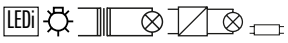
[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Busch-axcent®

Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**64821 U-500**	2CKA006800A3045	1

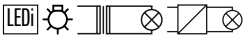
Relay insert flex, 2gang [1])
3 wire connection (neutral conductor required).
For switching lighting systems.
For switching two independent load circuits.
For controlling light and ventilation systems.
Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units.
Operation also possible via conventional push buttons (2020 US, 2021/6 UK).
Without control cover.
For control element flex, 1gang, wireless, 62711-WL.
For control element flex, 2gang, wireless, 62721-WL.
For Busch-Comfort switch flex control element 64765-... .
For Busch-Watchdog 180 flex sensors 6476x-... .
For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL.
Combinable with extension insert, 64891 U.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Inputs: 2
Outputs: 2x Normally open contact, potential-bound
Suitable for: 230 V- LEDi, typical.
Rated power: 300 VA
Suitable for: 230 V incandescent lamps/230 V halogen lamps
Rated power: 1840 W
Suitable for: Low voltage halogen lamps that are operated via transformers.
Rated power: 1150 VA
Temperature range (Device): -25 °C to 55 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm
Mounting depth: 25 mm



[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**64814 U-500**	2CKA006800A3048	1

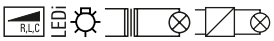
e-contact insert flex, 1gang [1]) [2])
2-wire connection (neutral conductor not required)
Neutral conductor optionally connectable (recommended for the connection of low loads < 10 W/VA).
For switching lighting systems.
Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units.
Operation also possible via conventional push buttons (2020 US, 2021/6 UK).
Without control cover.
For control element flex, 1gang, wireless, 62711-WL.
For control element flex, 2gang, wireless, 62721-WL.
For Busch-Watchdog 180 flex sensors 6476x-... .
For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL.
Combinable with extension insert, 64891 U.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Inputs: 1
Outputs: 1x Normally open contact, potential-bound
Suitable for: 230 V- LEDi, typical.
Rated power: 3 - 240 VA
Suitable for: 230 V incandescent lamps/230 V halogen lamps
Rated power: 10 - 240 W
Suitable for: Low voltage halogen lamps that are operated via transformers.
Rated power: 3 - 240 VA
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm
Mounting depth: 25 mm



[1]) Use only dimmable high-voltage LEDs.
[2]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Busch-axcent®

Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**LED dimmer insert flex, 1gang [1] [2] [3] [4] [5] [6]** **FM, LED, 3-240 VA** 2-wire connection (neutral conductor not required) Neutral conductor optionally connectable (recommended for the connection of low loads < 10 W/VA). Touch dimmer for switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. With manually adjustable operating mode: trailing / leading edge control. With adjustable minimum brightness. With light-level memory and minimum brightness memory. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. Without control cover. For control element flex, 1gang, 64711. For control element flex, 2gang, 64721. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Rated power: 3-240 VA (LEDi). Rated voltage: 230 V~, +10 % / -10 %. Rated frequency: 50 Hz. Inputs: 1. Outputs: 1x dimming channel. Suitable for: 230 V LEDi, typical (leading edge control). Rated power: 3 - 100 VA. Suitable for: 230 V LEDi, typical (trailing edge control). Rated power: 3 - 240 W. Suitable for: 230 V incandescent lamps, 230 V halogen lamps and low-voltage halogen lamps with conventional transformers or Busch Electronic Transformer. Rated power: 10 - 240 VA. Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm. Mounting depth: 25 mmIEC 60669-2-1, British Standard EN 60669-2-1 		
	64851 U-500	2CKA006500A0013	1

[1] In the case of conventional transformers, take ~20% transformer loss into account.
[2] In case of electronic transformers, 5 % transformer losses.
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Recommendation: Please use loads and types of one producer.
[5] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[6] A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

Product	Article-No.	Order-No.	Pack/Qty
	**Extension insert flex [1]** 3 wire connection (neutral conductor required). For the extension of the Busch-Comfort switch or presence detector installations. For group control of flex inserts via extension unit communication. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with all flex inserts. Rated voltage: 230 V~, +10 % / -10 %. Rated frequency: 50 Hz. Control/Signal outputs: 1, electronic output, potential-bound. Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm. Mounting depth: 25 mm		
	64891 U-500	2CKA006800A3051	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	Comfort switch flex sensor Movement detector push-button switch combination. For switching lighting systems that depend on brightness and movement. Push switch function possible at all times. Extension of the detection range by means of master/ slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. Adjustable operating mode: automatic mode, automatic (motion-controlled) switch-on and switch-off. Adjustable operating mode: semiautomatic, manual switch-on, automatic (timer and movement-controlled) switch-off. Adjustable operating mode: automatic mode, automatic switch-on, manual switch-off. With continuous light/ continuous Off function. Adjusting elements on rear side. Surveillance density: 9 sectors with 28 switching segments. Switch-off delay: 1 to 10 min., adjustable. Compatible with all free@home flexTronics inserts. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Please order the respective flush-mounted insert separately. The range specifications refer only to an ambient temperature of 21°C.		
	64765-81-500	2CKA006800A2883	
	64765-82-500	2CKA006800A2885	
	64765-84-500	2CKA006800A2889	
	64765-884-500	2CKA006800A2893	
	64765-885-500	2CKA006800A2895	

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flex, basic sensor [1] [2]** **with select-lens** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Compatible with all free@home flex inserts. Adjusting elements on rear side. Extension of the detection range by means of master/ slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. With detection display in test mode. Surveillance density: 14 sectors with 56 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 22 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Detection range: frontal: 12 m, lateral: 12 m, Mounting height: 1.1 m. Detection angle: 180°. Brightness limit value: 5 Lux - 500 Lux Up to daytime operation Mounting height: 0.8 m - 1.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 35 mm		
anthracite	**64761-81-500**	2CKA006800A2921	1
ivory white	**64761-82-500**	2CKA006800A2923	1
studio white	**64761-84-500**	2CKA006800A2927	1
studio white, matt[3])	**64761-884-500**	2CKA006800A2931	1
black matt [3])	**64761-885-500**	2CKA006800A2933	1

[1] Please order the respective flush-mounted insert separately.
[2] The range specifications refer only to an ambient temperature of 21°C.
[3] Surface painted.

Busch-axcent®

Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flex, comfort sensor [1] [2] with select-lens** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Push switch function possible at all times. In combination with dimmer insert flex: dimming function of lighting and selectable light value storage. With enabling of pre-warning of switch-off for stairwell operation. Compatible with all free@home flex inserts. Adjusting elements on rear side. Extension of the detection range by means of master/ slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. With continuous light/continuous Off function. With detection display in test mode. Surveillance density: 14 sectors with 56 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 22 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Detection range: frontal: 12 m, lateral: 12 m, Mounting height: 1.1 m Detection angle: 180 ° Brightness limit value: 5 Lux - 500 Lux Up to daytime operation Mounting height: 0.8 m - 1.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 35 mm		
anthracite	**64762-81-500**	2CKA006800A2958	1
ivory white	**64762-82-500**	2CKA006800A2960	1
studio white	**64762-84-500**	2CKA006800A2964	1
studio white matt [3]	**64762-884-500**	2CKA006800A2968	1
black matt [3]	**64762-885-500**	2CKA006800A2970	1

[1] Please order the respective flush-mounted insert separately.
[2] The range specifications refer only to an ambient temperature of 21°C.
[3] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flex, comfort sensor [1] [2] with multi-lens** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Push switch function possible at all times. For detection down to the floor. For detection in stairwells. With 4 detection levels. In combination with dimmer insert flex: dimming function of lighting and selectable light value storage. With enabling of pre-warning of switch-off for stairwell operation. Compatible with all free@home flex inserts. Adjusting elements on rear side. Multi-lens: suitable also for mounting heights of 2.20 m. Extension of the detection range by means of master/ slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. With continuous light/continuous Off function. With detection display in test mode. Surveillance density: 54 sectors with 224 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 31 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Detection range: frontal: 8 m, lateral: 7 m, Mounting height: 1.1 m Detection range 2: frontal: 8 m, lateral: 8 m, Mounting height: 2.2 m Detection angle: 180 ° Brightness limit value: 5 Lux - 500 Lux Up to daytime operation Mounting height: 0.8 m - 1.2 m alternative: 2.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 45 mm		
anthracite	**64764-81-500**	2CKA006800A2995	1
ivory white	**64764-82-500**	2CKA006800A2997	1
studio white	**64764-84-500**	2CKA006800A3001	1
studio white matt [3]	**64764-884-500**	2CKA006800A3005	1
black matt [3]	**64764-885-500**	2CKA006800A3007	1

[1] Please order the respective flush-mounted insert separately.
[2] The range specifications refer only to an ambient temperature of 21°C.
[3] Surface painted.

Busch-axcent®

Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Key Switch Insert** [1] [2] [3] **breaking circuit, 1-pole** For profile semi-cylindrical lock. In switched-on and switched-off status the key can be pulled out in the central position, respectively. Delivered without cylindrical lock. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20IEC60669-1, British Standard EN 60669-1		
	2733 USL-101	2CKA001101A0914	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		
delivery form:	Adapter plate APBS to be ordered separate.		

[1] For installation on British Standard wallboxes please use adapter plate APBS (6599-0-2813). (Depth of box 60 mm.)
[2] Use the cylindrical lock according to the enclosed drawing.
[3] See profile semi-cylindrical lock.

	**Blind switch insert** [1] [2] **SP, switch** With interlock. Rated voltage: 250 V~ Rated current: 10 AX Protection class (Device): IP 20IEC60669-1, British Standard EN 60669-1		
	2000/4 US-500	2CKA001012A2197	10/100
	2020/4 US-500	2CKA001413A1103	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] These blind switches/push buttons safely prevent a switch-over of the running direction being carried out too quickly.

	**Blind switch insert** [1] [2] With rotary knob/switch and push switch. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1, British Standard EN 60669-1		
	DP [3]		
	2712 U	2CKA001101A0534	10
	SP, N, E		
	2713 U	2CKA001101A0542	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		
delivery form:	Adapter plate APBS to be ordered separate.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Blind switches/push switches prevents fast change over between operating directions.
[3] Also suitable for controlling direct voltage drives.

Product	Article-No.	Order-No.	Pack/Qty
	**Blind switch insert** [1] [2] With rotary knob/push button. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC60669-1, British Standard EN 60669-1		
	DP [3]		
	2722 U	2CKA001101A0559	10
	SP, N, E		
	2723 U	2CKA001101A0567	10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Blind switches/push switches prevents fast change over between operating directions.
[3] Also suitable for controlling direct voltage drives.

	**Blind switch/push-switch** [1] [2] [3] [4] For profile semi-cylindrical lock/switch and push-switch. Delivered without cylindrical lock. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC60669-1, British Standard EN 60669-1		
	DP [5]		
	2712 USL-101	2CKA001101A0872	10
	SP, N, E		
	2713 USL-101	2CKA001101A0880	10

[1] For installation on British Standard wallboxes please use adapter plate APBS (6599-0-2813). (Depth of box 60 mm.)
[2] Blind switches/push switches prevents fast change over between operating directions.
[3] Use the cylindrical lock according to the enclosed drawing.
[4] See semi-cylindrical lock.
[5] Also suitable for controlling direct voltage drives.

	**Blind switch insert** [1] [2] [3] [4] For profile semi-cylindrical lock/push-button. Delivered without cylindrical lock. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 British Standard EN 60669-1, IEC60669-1		
	DP [5]		
	2722 USL-101	2CKA001101A0898	10
	SP, N, E		
	2723 USL-101	2CKA001101A0906	10

[1] For installation on British Standard wallboxes please use adapter plate APBS (6599-0-2813). (Depth of box 60 mm.)
[2] Blind switches/push switches prevents fast change over between operating directions.
[3] Use the cylindrical lock according to the enclosed drawing.
[4] See semi-cylindrical lock.
[5] Also suitable for controlling direct voltage drives.

Busch-axcent®

Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**DIN profile-semi cylindrical lock** Acc. to German Standard DIN 18252. Total length 40 mm for blind switches and push switches For inserts 2712/2713/2722/2723/2733 USL-101 and 2712/2733 SLW-5x. Protection class (Device): IP 20		
	different lock mechanism, with 3 keys		
	0520 PZ-VS	2CKA000470A0013	1/100
	lock mechanism, with 3 keys		
	0521 PZ-GS	2CKA000470A0021	1/100
	**Blind compact timer** Suitable for blind and roller blind drives with mechanical or electronic limit switch shut-off. Without extension unit input. Running time: 3 min N-busbar connection is required. For manual and time-controlled switching of blinds and roller blinds. Memory function for the simple storage of switching times. The controlled devices can be manually operated at any time. Simple setting via display with with segment display and background illumination. Factory pre-set switching times, individual adaptations are possible. 2 switching times per day can be freely adjusted for each day of the week. Automatic switchover from summer time to winter time (switch-off function). Switching times and programs are safely stored in the event of a mains power failure. Power reserve for time and date > 10 years. Simple toggling between manual/automatic/vacation modes. See the associated cover plates 6435-xx. Programming possible only with control element attached and energized. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 2x Normally open contact Rated current: 3 A, cos ϕ 0.5 Rated power: 690 VA Temperature range (Device): 0 °C to 45 °C		
	6422 U-500	2CKA006410A0410	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**Basic blind insert** [1] [2] **2-wire blind insert** Suitable for blind and roller blind drives with mechanical or electronic limit switch shut-off. Suitable for operation without neutral conductor. Without an extension input. For control cover 6430-xx-xxx. For standard timer control element 6456-101. Running time: 3 min. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 2x Normally open contact Rated current: 3 A, cos ϕ 0.5 Rated power: 690 VA Temperature range (Device): 0 °C to 35 °C		
	6418 U-500	2CKA006410A0376	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] N-conductor connection required for operation with control cover 6430-7x, illuminated.
[2] N-conductor connection may be required for operation with blind and roller blind drives with electronic limit switch shut-off. If no N-conductor is available, capacitor set 6498 can be used.

	**Busch-Blind control II switch insert** [1] Suitable for blind, roller blind and awning drives with mechanical or electronic limit switch shut-off. With two 230 V multi-way input terminals (Up/Down) for group control. With operating mode switch for the following modes: normal, louvre, base station, position. With party function (disables the local control unit) in combination with Busch-Blind control II control cover 6430-xx-xxx, 6066-xx-xxx. Wind alarm, cleaning functions can be accommodated via extension input. For control cover 6430-xx-xxx. For IR control element 6066-xx-xxx. For comfort timer control element 6455-101-500. Running time: 3 min Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 2x Normally open contact Rated current: 3 A, cos ϕ 0.5 Rated power: 690 VA Control/Signal outputs: 2 Temperature range (Device): 0 °C to 35 °C		
	6411 U-500-101	2CKA006410A0378	1/10

[1] Compatible with types 6411 U/x.

	**Brightness sensor** For insert 6411U/S-101. With 2 m connecting cable. Measuring range: 15-50,000 lux.		
	6414-101	2CKA006410A0389	1/10
	**Sun sensor** For insert 6411U/S-101. Measuring range: 5-50,000 lux.		
	6482	2CKA006410A0203	1

Busch-axcent®

Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Short-time timer insert** [1] **countdown timer** For time-programmed switching of electrical consumers. With control cover, without cover plate. Minimum timer time: 1 second. Maximum timer time: 9:59:59 hours. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 1x Normally open contact Rated current: 10 A, cos ϕ 1 Rated power: 2300 VA Temperature range (Device): 0 °C to 35 °CIEC 60669-2-1, British Standard EN 60669-2-1		
	6465 U-101-500	2CKA006410A0393	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
Cover frames:	1gang frame 1721 BS-2xG or Dual Box frame 1722 BSDB-2xG.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker** **with marking** As cover for flush-mounted blind control switch/push switch. For inserts 2000/4 and 2020/4 US. Protection class (Device): IP 20		
anthracite	**1785 JA-81**	2CKA001751A2934	10
aluminium silver [1]	**1785 JA-83**	2CKA001751A2944	10/100
studio white	**1785 JA-84-500**	2CKA001751A3088	10/100
grey metallic [1]	**1785 JA-803**	2CKA001751A3020	10
studio white, matt [1]	**1785 JA-884**	2CKA001751A3022	10
black matt [1]	**1785 JA-885**	2CKA001751A3036	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **with rotary control, with marking** As cover for flush-mounted blind control switch/push switch. For inserts 2712 U, 2713 U and 2722 U, 2723 U. Protection class (Device): IP 20		
anthracite	**1740-81**	2CKA001710A3623	10
aluminium silver [1]	**1740-83**	2CKA001710A3661	10
studio white	**1740-84**	2CKA001710A3172	10/100
grey metallic [1]	**1740-803**	2CKA001710A3840	10
studio white, matt [1]	**1740-884**	2CKA001710A3872	10
black matt [1]	**1740-885**	2CKA001710A3894	10

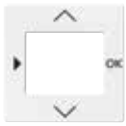
[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** [1] **with labelling field** With marking. For half-cylindrical type switches and blind control switch/push-switch. For inserts 2733 USL-101 and 2712 USL-101, 2713 USL-101, 2722 USL-101, 2723 USL-101. Protection class (Device): IP 20		
anthracite	**1755 SL/PZ-81-101**	2CKA001710A3626	10
aluminium silver [2]	**1755 SL/PZ-83-101**	2CKA001710A3662	10
studio white	**1755 SL/PZ-84-101**	2CKA001710A3175	10
grey metallic [2]	**1755 SL/PZ-803-101**	2CKA001710A3841	10
studio white, matt [2]	**1755 SL/PZ-884-101**	2CKA001710A3925	10
black matt [2]	**1755 SL/PZ-885-101**	2CKA001710A3902	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Control element** For Busch-Blind control II insert 6411 U-101, 6411 U/S-101. For basic blind insert 6418 U. For Busch-Universal 2gang 1way insert 6402 U.		
anthracite	**6430-81-102**	2CKA006430A0326	1/10
aluminium silver [1]	**6430-83-102**	2CKA006430A0328	1/10
studio white	**6430-84-102-500**	2CKA006430A0400	1/10
grey metallic [1]	**6430-803-102**	2CKA006430A0350	1/10
studio white, matt [1]	**6430-884-102**	2CKA006430A0385	1/10
black matt [1]	**6430-885-102**	2CKA006430A0386	1/10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For comfort timer control element 6455-101-500. For standard timer control element 6456-101. For room thermostats 1098 U-101 and 1098 UF-101. For short-time timer 6465 U-101. For Busch-CO2 sensor 1091 U-500. For blind compact timer 6422 U.		
anthracite *)	**6436-81**	2CKA006430A0387	10
aluminium silver [1] *)	**6436-83**	2CKA006430A0357	10
studio white	**6435-84**	2CKA006430A0306	10
grey metallic [1] *)	**6436-803**	2CKA006430A0360	10
studio white, matt [1] *)	**6436-884**	2CKA006430A0363	10
black matt [1]	**6435-885**	2CKA006430A0389	10

[1] Surface painted.
*) Phase-out type

Busch-axcent®

Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Time switch mechanism 16 A [1] [2]** **DP, break contact for staircases, exterior lighting, fans, etc.** Running time: 15 min For time-programmed switching of electrical consumers. Schaltkontakte (2-polig) schließen, wenn die Laufzeit eingestellt und gestartet wird. Schaltkontakte (2-polig) öffnen, wenn die eingestellte Zeit abgelaufen ist. Rated voltage: 230 V~, +10 % / -10 % Rated current: 16 A, cos ϕ 0.25 Protection class (Device): IP 20		
	1070 U	2CKA001043A0025	1/10

[1] For screw-fixing only
[2] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Time switch mechanism 16 A [1] [2]** **DP, break contact for staircases, exterior lighting, fans, etc.** Running time: 120 min For time-programmed switching of electrical consumers. Schaltkontakte (2-polig) schließen, wenn die Laufzeit eingestellt und gestartet wird. Schaltkontakte (2-polig) öffnen, wenn die eingestellte Zeit abgelaufen ist. Rated voltage: 230 V~, +10 % / -10 % Rated current: 16 A, cos ϕ 0.25 Protection class (Device): IP 20		
	1071 U	2CKA001043A0124	1

[1] For screw-fixing only
[2] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Cover plate** **with rotary knob, with marking** For Busch-Timer insert 1070 U. Running time: 15 min Protection class (Device): IP 20		
anthracite	**1770-81-103**	2CKA001753A0255	10
aluminium silver [1]	**1770-83-103**	2CKA001753A0257	10
studio white	**1770-84-103**	2CKA001753A0258	10
grey metallic [1]	**1770-803-103**	2CKA001753A0254	10
studio white matt [2]	**1770-884-103**	2CKA001753A0260	10
black matt [1]	**1770-885-103**	2CKA001753A0261	10

[1] Surface painted.
[2] Surface lacquered in aluminium.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **with rotary knob, with marking** For Busch-Timer insert 1071 U. Running time: 120 min Protection class (Device): IP 20		
anthracite	**1771-81-103**	2CKA001753A0265	10
aluminium silver [1]	**1771-83-103**	2CKA001753A0267	10
studio white	**1771-84-103**	2CKA001753A0301	10
grey metallic [1]	**1771-803-103**	2CKA001753A0264	10
studio white matt [1]	**1771-884-103**	2CKA001753A0303	10
black matt [1]	**1771-885-103**	2CKA001753A0304	10

[1] Surface painted.

Busch-axcent®

Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet** With screwless terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUC-81-500**	2CKA002011A6215	10/100
aluminium silver [1])	**20 EUC-83-500**	2CKA002011A6213	10/100
studio white	**20 EUC-84-500**	2CKA002011A6207	10/100
grey metallic [1])	**20 EUC-803-500**	2CKA002011A6216	10/100
studio white, matt	**20 EUC-884-500**	2CKA002011A6208	10
black matt [1])	**20 EUC-885-500**	2CKA002011A6211	10/100

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet without claw [1])** **shuttered** Without claws. With screwless terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUCRB-81**	2CKA002013A5437	10/100
aluminium silver [2])	**20 EUCRB-83**	2CKA002013A5439	10/100
studio white	**20 EUCRB-84-500**	2CKA002013A5441	10/100
grey metallic [2])	**20 EUCRB-803**	2CKA002013A5436	10/100
studio white, matt [2])	**20 EUCRB-884**	2CKA002013A5443	10
black matt [2])	**20 EUCRB-885**	2CKA002013A5444	10/100

[1]) Increased shock protection .
[2]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1]) [2])** **shuttered** With screw-type terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**2300 EUCB-81**	2CKA002013A5448	10
aluminium silver [3])	**2300 EUCB-83**	2CKA002013A5450	10/100
studio white	**2300 EUCB-84**	2CKA002013A5451	10/100
grey metallic [3])	**2300 EUCB-803**	2CKA002013A5447	10/100
studio white, matt [3])	**2300 EUCB-884**	2CKA002013A5453	10/100
black matt [3])	**2300 EUCB-885**	2CKA002013A5454	10/100

[1]) Increased shock protection .
[2]) With screw-type terminals
[3]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1]) [2])** **shuttered** With screw-type terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**23 EUCB-81**	2CKA002013A5474	10
ivory white	**23 EUCB-82**	2CKA002013A5475	10
aluminium silver [3])	**23 EUCB-83**	2CKA002013A5476	10
studio white	**23 EUCB-84**	2CKA002013A5477	10/100
studio white, matt [3])	**23 EUCB-884**	2CKA002013A5479	10
black matt [3])	**23 EUCB-885**	2CKA002013A5480	10

[1]) Increased shock protection .
[2]) With screw-type terminal for rigid and flexible wires
[3]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1])** **shuttered** With screwless terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUCKS-81**	2CKA002013A5265	10
aluminium silver [2])	**20 EUCKS-83-500**	2CKA002013A5375	10/100
studio white	**20 EUCKS-84-500**	2CKA002013A5372	10/100
grey metallic [2])	**20 EUCKS-803**	2CKA002013A5297	10/100
studio white, matt	**20 EUCKS-884-500**	2CKA002013A5373	10/100
black matt [2])	**20 EUCKS-885**	2CKA002013A5333	10/100

[1]) Increased shock protection .
[2]) Surface painted.

Busch-axcent®
Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® USB socket outlet, 2gang [1] [2] [3] [4]** **shuttered** For connecting electric loads. DP (2 P + E) With screwless terminals. For supply and support of mobile devices via USB-cable. With two USB type A outputs. Simultaneous charging via USB connection and use of the SCHUKO® socket outlet. Support of loading protocol on the USB-A connection: Apple MFI with 2.4 A and BC 1.2 with 1.5 A. With electronic short-circuit protection. With electronic overload protection. Rated voltage: 230 V~, +10 % / --10 % Secondary: 5 V-, +5 % / -5 % Rated frequency: 50 Hz - 60 Hz Outputs: 2x USB charging interface Suitable for: SCHUKO® socket outlet Rated current: 16 A Suitable for: In case one output is used: Rated current: 2.4 A Output voltage: 5 V- Suitable for: In case two output are used: Rated current: 1.2 A Output voltage: 5 V- Rated power: 12 W Protection class (Device): IP 20, SELV Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 58 mm Mounting depth: 39.5 mm		
anthracite	**20 EUCB2USB-81-500**	2CKA002011A6268	1/10
aluminium silver [5]	**20 EUCB2USB-83-500**	2CKA002011A6272	1/10
studio white	**20 EUCB2USB-84-500**	2CKA002011A6274	1/10
grey metallic [5]	**20 EUCB2USB-803-500**	2CKA002011A6276	1/10
studio white matt [5]	**20 EUCB2USB-884-500**	2CKA002011A6278	1/10
black matt [5]	**20 EUCB2USB-885-500**	2CKA002011A6280	1/10

[1] Increased shock protection .
[2] Connecting terminals approved in accordance with VDE 0620-1 as connectors.
[3] No data transfer.
[4] When cleaning the device, use dust cover 2098 for the USB-A connection.
[5] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Socket outlet [1]** **shuttered** With screwless terminals. DP (2 P + E) With eject mechanism. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUCBDR-81**	2CKA002013A5415	10
studio white	**20 EUCBDR-84**	2CKA002013A5418	10
aluminium silver [2]	**20 EUCBDR-83**	2CKA002013A5417	10
grey metallic [2]	**20 EUCBDR-803**	2CKA002013A5414	10
studio white, matt [2]	**20 EUCBDR-884**	2CKA002013A5420	10
black matt [2]	**20 EUCBDR-885**	2CKA002013A5421	10

[1] Increased shock protection .
[2] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet steplight® [1]** **With night orientation light** with separate connection cables for switch contact. with LED, Shuttered. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUCBLI-81**	2CKA002013A5459	1
aluminium silver [2]	**20 EUCBLI-83**	2CKA002013A5293	1
studio white	**20 EUCBLI-84**	2CKA002013A5294	1
grey metallic [2]	**20 EUCBLI-803**	2CKA002013A5458	1
studio white, matt [2]	**20 EUCBLI-884**	2CKA002013A5326	1
black matt [2]	**20 EUCBLI-885**	2CKA002013A5331	1

[1] Connecting terminals approved in accordance with VDE 0620-1 as connectors.
[2] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1]** **with labelling field** DP (2 P + E) Size of labelling field: 60 x 9 mm. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUN-81**	2CKA002011A3802	10
aluminium silver [2]	**20 EUN-83**	2CKA002011A3810	10
studio white	**20 EUN-84-500**	2CKA002011A6209	10/100
grey metallic [2]	**20 EUN-803**	2CKA002011A3876	10
studio white, matt [2]	**20 EUN-884**	2CKA002011A3881	10
black matt [2]	**20 EUN-885**	2CKA002011A3884	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1] [2]** **with label field, increased shock protection** Size of labelling field: 60 x 9 mm. With screwless terminals. DP (2 P + E) Shuttered. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUCNB-81**	2CKA002013A5427	10
aluminium silver [3]	**20 EUCNB-83**	2CKA002013A5429	10/100
studio white	**20 EUCNB-84-500**	2CKA002013A5431	10/100
grey metallic [3]	**20 EUCNB-803**	2CKA002013A5426	10
studio white, matt [3]	**20 EUCNB-884**	2CKA002013A5433	10/100
black matt [3]	**20 EUCNB-885**	2CKA002013A5434	10/100

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Increased shock protection .
[3] Surface painted.

Busch-axcent®

Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1])** **with marking "EDV"** With screwless terminals. DP (2 P + E) Shuttered. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUCKS/DV-81**	2CKA002013A5266	10
aluminium silver [2])	**20 EUCKS/DV-83**	2CKA002013A5273	10/100
studio white	**20 EUCKS/DV-84**	2CKA002013A5268	10
grey metallic [2])	**20 EUCKS/DV-803**	2CKA002013A5462	10/100
studio white, matt [2])	**20 EUCKS/DV-884**	2CKA002013A5327	10
black matt [2])	**20 EUCKS/DV-885**	2CKA002013A5332	10

[1]) Increased shock protection .
[3]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Protector® SCHUKO® socket outlet [1])** **with overvoltage protection** DP (2 P + E) With integrated and external signalling contact. ISN = 5 kA Device protection for technical sensitive equipment such as computer, entertainment electronics and building management systems. Effectively reduces overvoltage peaks occurring between the sub-distribution switch board and SCHUKO® socket outlet. Arrestor test class: classification Type 2 Rated voltage: 250 V~, Rated current: 16 A Protection class (Device): IP 20		
anthracite	**2310 EUGL/VA-81-11**	2CKA002011A3830	1
aluminium silver [2])	**2310 EUGL/VA-83-11**	2CKA002011A3832	1
studio white	**2310 EUGL/VA-84-11**	2CKA002011A3833	1
red RAL 3020	**2310 EUGL/ VA-12-82-101**	2CKA002011A6257	1/10
studio white, matt [2])	**2310EUGL/VA-884-11**	2CKA002011A3882	1
black matt [2])	**2310EUGL/VA-885-11**	2CKA002011A3885	1

[1]) Connecting terminals approved in accordance with VDE 0620-1 as connectors.
[2]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet** **with LED control light** Shuttered. DP (2 P + E) With transparent lens. LED colour green. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUCBL-81**	2CKA002013A5457	10
aluminium silver [1])	**20 EUCBL-83**	2CKA002013A5285	10
studio white	**20 EUCBL-84**	2CKA002013A5286	10
grey metallic [1])	**20 EUCBL-803**	2CKA002013A5456	10
studio white, matt [1])	**20 EUCBL-884**	2CKA002013A5336	10
black matt [1])	**20 EUCBL-885**	2CKA002013A5330	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Object socket outlet [1])** **shuttered** With screwless terminals. DP (2 P + E) Incl. Cover plate with extract mechanism. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUAB-81**	2CKA002013A5404	10
aluminium silver [2])	**20 EUAB-83**	2CKA002013A5406	10
studio white	**20 EUAB-84**	2CKA002013A5407	10
grey metallic [2])	**20 EUAB-803**	2CKA002013A5403	10
studio white, matt [2])	**20 EUAB-884**	2CKA002013A5409	10
black matt [2])	**20 EUAB-885**	2CKA002013A5410	10

[1]) Increased shock protection .
[2]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**FI-SCHUKOMAT, SCHUKO® socket outlet (RCD) [1]) [2]) [3])** **with earth leakage circuit breaker** Shuttered. DP cut off (P,N) Without PE monitoring. With output terminals for connecting and protecting downsream SCHUKO® socket outlets. Rated fault current: 30 mA. With fixing claws. Rated frequency: 45-60 Hz. Rated voltage: 230 V~ Rated current: 16 A Protection class (Device): IP 20 Temperature range (Device): -25 °C to 40 °C		
anthracite	**3120 EUCB-81**	2CKA003116A0667	1/10
aluminium silver [4])	**3120 EUCB-83**	2CKA003116A0668	1/10
studio white	**3120 EUCB-84**	2CKA003116A0662	1
grey metallic [4])	**3120 EUCB-803**	2CKA003116A0666	1/10
studio white, matt [4])	**3120 EUCB-884**	2CKA003116A0670	1/10
black matt [4])	**3120 EUCB-885**	2CKA003116A0671	1/10

[1]) Connecting terminals approved in accordance with VDE 0620-1 as connectors.
[2]) Protective measure according to VDE 0100; can be proven or checked using the Profitest 0100S testing device, for example.
[3]) Increased shock protection .
[4]) Surface painted.

Busch-axcent®

Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**Buschmat® FI - Insert [1])** **with earth leakage breaker with connecting conductor** Protection of downstream consumers. Rated fault current: 30 mA. DP cut off (P,N) With fixing claws. Rated frequency: 45-60 Hz. Rated voltage: 230 V~ Rated current: 16 A Protection class (Device): IP 20 Temperature range (Device): -25 °C to 40 °C		
anthracite	**3151 UC-81**	2CKA003117A0009	1/10
aluminium silver [2])	**3151 UC-83**	2CKA003117A0010	1/10
studio white	**3151 UC-84**	2CKA003117A0006	1/10
grey metallic [2])	**3151 UC-803**	2CKA003117A0008	1/10
studio white, matt [2])	**3151 UC-884**	2CKA003117A0012	1/10
black matt [2])	**3151 UC-885**	2CKA003117A0013	1/10

[1]) Protective measure according to VDE 0100; can be proven or checked using the Profitest 0100S testing device, for example.
[2]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet** **with hinged lid** With screwless terminals. DP (2 P + E) Hinged lid notches when opened. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUK-81**	2CKA002018A1486	10
aluminium silver [1])	**20 EUK-83**	2CKA002018A1487	10
studio white	**20 EUK-84-500**	2CKA002018A1509	10/100
grey metallic [1])	**20 EUK-803**	2CKA002018A1493	10
antique brass [2])	**20 EUK-840-500**	2CKA002018A1515	10
black matt [1])	**20 EUK-885**	2CKA002018A1495	10

[1]) Surface painted.
[2]) Real metal surface refined by hand.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1])** **with hinged lid and internal increased shock protection** Shuttered. With screwless terminals. DP (2 P + E) with hinged lid Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUKB-81**	2CKA002018A1517	10/100
aluminium silver [2])	**20 EUKB-83**	2CKA002018A1519	10/100
studio white	**20 EUKB-84**	2CKA002018A1520	10/100
grey metallic [2])	**20 EUKB-803**	2CKA002018A1516	10/100
studio white, matt [2])	**20 EUKB-884**	2CKA002018A1522	10/100
black matt [2])	**20 EUKB-885**	2CKA002018A1523	10/100
anthracite [3])	**20 EUKBR-81**	2CKA002018A1526	10/100
aluminium silver [2]) [3])	**20 EUKBR-83**	2CKA002018A1528	10/100
studio white [3])	**20 EUKBR-84**	2CKA002018A1529	10/100
grey metallic [2]) [3])	**20 EUKBR-803**	2CKA002018A1525	10/100
studio white, matt [2]) [3])	**20 EUKBR-884**	2CKA002018A1530	10/100
black matt [2]) [3])	**20 EUKBR-885**	2CKA002018A1531	10/100

[1]) Increased shock protection .
[2]) Surface painted.
[3]) Without claw.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1]) [2]) [3])** **with hinged lid and labelling field** Shuttered. With screwless terminals. DP (2 P + E) with hinged lid Size of labelling field: 60 x 9 mm. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUKNB-81**	2CKA002018A1537	10/100
aluminium silver [4])	**20 EUKNB-83**	2CKA002018A1539	10/100
studio white	**20 EUKNB-84**	2CKA002018A1540	10/100
grey metallic [4])	**20 EUKNB-803**	2CKA002018A1536	10/100
studio white, matt [4])	**20 EUKNB-884**	2CKA002018A1541	10/100
black matt [4])	**20 EUKNB-885**	2CKA002018A1542	10/100

[1]) Increased shock protection .
[2]) The labels are clamped under the labelling field.
[3]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[4]) Surface painted.

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Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1]** **with hinged lid and lock** Shuttered. With screwless terminals. DP (2 P + E) With different lock mechanism. Delivery includes 2 keys. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUKNBSL-81**	2CKA002018A1557	10
aluminium silver [2]	**20 EUKNBSL-83**	2CKA002018A1561	10
studio white	**20 EUKNBSL-84**	2CKA002018A1563	10
grey metallic [2]	**20 EUKNBSL-803**	2CKA002018A1555	10
studio white, matt [2]	**20 EUKNBSL-884**	2CKA002018A1565	10
black matt [2]	**20 EUKNBSL-885**	2CKA002018A1567	10

[1] Increased shock protection .
[2] Surface painted.

	**SCHUKO® socket outlet [1]** **with hinged lid and lock** Shuttered. With screwless terminals. DP (2 P + E) With evenly engaging lock. Delivery includes 2 keys. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUKNBSL-81-101**	2CKA002018A1558	10
aluminium silver [2]	**20 EUKNBSL-83-101**	2CKA002018A1562	10
studio white	**20 EUKNBSL-84-101**	2CKA002018A1564	10
grey metallic [2]	**20 EUKNBSL-803-101**	2CKA002018A1556	10
studio white, matt [2]	**20 EUKNBSL-884-101**	2CKA002018A1566	10
black matt [2]	**20 EUKNBSL-885-101**	2CKA002018A1568	10

[1] Increased shock protection .
[2] Surface painted.

	**SCHUKO® socket outlet [1] [2] [3]** **with hinged lid, labelling field and LED control light** Shuttered. With screwless terminals. DP (2 P + E) with hinged lid Size of labelling field: 60 x 9 mm. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUKNBL-81**	2CKA002018A1548	10/100
aluminium silver [4]	**20 EUKNBL-83**	2CKA002018A1550	10/100
studio white	**20 EUKNBL-84**	2CKA002018A1551	10/100
grey metallic [4]	**20 EUKNBL-803**	2CKA002018A1547	10/100
studio white, matt [4]	**20 EUKNBL-884**	2CKA002018A1552	10/100
black matt [4]	**20 EUKNBL-885**	2CKA002018A1553	10/100

[1] Increased shock protection .
[2] The labels are clamped under the labelling field.
[3] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[4] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Double SCHUKO® socket outlets [1] [2] [3] [4] [*]** Complete cover. With screwless terminals. DP (2 P + E) Suitable for 1gang flush-mounted boxes. Without claws. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
studio white	**20-02 EUJR-84-503**	2CKA002014A1370	10

[1] Separat installation only possible.
[2] With 2 x 2 terminals per pole.
[3] Increased shock protection .
[4] Shutter for increased shock protection integrated at the socket.
[*] Phase-out type

	**Socket outlet [1]** **shuttered** Without claws. With screw-type terminals. DP Suitable for 1gang flush-mounted boxes. Rated voltage: 250 V~ Rated current: 16 A		
anthracite	**2300 UCRKS-81-503**	2CKA002113A5339	10
studio white	**2300 UCRKS-84-503**	2CKA002113A0511	10
grey metallic [2]	**2300 UCRKS-803-503**	2CKA002113A5341	10
studio white, matt [2]	**2300 UCRKS-884-503**	2CKA002113A5337	10
black matt [2]	**2300 UCRKS-885-503**	2CKA002113A5340	10

[1] Increased shock protection .
[2] Surface painted.

	**13 A Switched socket outlet** SP switched 1gang Only for mounting in VDE flush-mounted wallboxes CFB 122 and CFBM 122. Rated voltage: 250 V~ Rated current: 13 ABS 1363: part2		
anthracite	**2190 EUC-81**	2CKA002190A0216	10/100
aluminium silver [1]	**2190 EUC-83**	2CKA002190A0214	10
studio white	**2190 EUC-84**	2CKA002190A0215	10/100
grey metallic [1]	**2190 EUC-803**	2CKA002190A0224	10/100
studio white, matt [1]	**2190 EUC-884**	2CKA002190A0218	10
black matt [1]	**2190 EUC-885**	2CKA002190A0219	10

[1] Surface painted.

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Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**USB socket outlet earthing pin, 2gang [1] [2] [3] shuttered** For connecting electric loads. DP (2 P + E) With screwless terminals. For supply and support of mobile devices via USB-cable. With two USB type A outputs. Simultaneous charging via USB connection and use of the SCHUKO® socket outlet. Support of loading protocol on the USB-A connection: Apple MFI with 2.4 A and BC 1.2 with 1.5 A. With electronic short-circuit protection. With electronic overload protection. Suitable for the countries: Belgium, Poland, Czech Republic. Rated voltage: 230 V~, +10 % / --10 % Secondary: 5 V-, +5 % / -5 % Rated frequency: 50 Hz - 60 Hz Outputs: 2x USB charging interface Suitable for: Earth pin socket Rated current: 16 A Suitable for: In case one output is used: Rated current: 2.4 A Suitable for: In case two output are used: Rated current: 1.2 A Output voltage: 5 V- Rated power: 12 W Protection class (Device): IP 20, SELV Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 58 mm Mounting depth: 39.5 mm		
anthracite	**20 MUCB2USB-81-500**	2CKA002011A6290	1
aluminium silver [4]	**20 MUCB2USB-83-500**	2CKA002017A1890	1/10
studio white	**20 MUCB2USB-84-500**	2CKA002017A1891	1/10
grey metallic [4]	**20 MUCB2USB-803-500**	2CKA002017A1892	1/10
studio white matt [4]	**20 MUCB2USB-884-500**	2CKA002017A1893	1/10
black matt [4]	**20 MUCB2USB-885-500**	2CKA002017A1894	1/10

[1] Socket outlet with integrated child protection. Replaces the usual term"...with child protection".
[2] No data transfer.
[3] When cleaning the device, use dust cover 2098 for the USB-A connection.
[4] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Shaver socket outlet** For installation into FM 2gang wall box 3030 and 3031. Rated voltage: 240 V, +10 % / -10 % Output voltage: 115 V, +10 % / -10 % Secondary: 240 V, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Rated power: 20 VA		
anthracite	**2332 UJBS-81**	2CKA002130A0297	1
aluminium silver [1]	**2332 UJBS-83**	2CKA002130A0291	1
studio white	**2332 UJBS-84**	2CKA002130A0292	1
grey metallic [1]	**2332 UJBS-803**	2CKA002130A0296	1
studio white, matt [1]	**2332 UJBS-884**	2CKA002130A0294	1
black matt [1]	**2332 UJBS-885**	2CKA002130A0295	1

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Flush-mounting wall box, 2gang** For shaver socket outlet 2332 UJBS-8xx. Protection class (Device): IP 20 Dimensions: (L x W x D): 135 mm x 75 mm x 47 mm		
	3030	2CKA001741A0067	4
	**Flush-mounting cavity wall box, 2gang** For shaver socket outlet 2332 UJBS-8xx. Protection class (Device): IP 20 Dimensions: (L x W x D): 142 mm x 75 mm x 45 mm		
	3031	2CKA001741A0068	4
	**2gang European/American socket outlet, 10A** 2gang With screw-type terminals. SP switched Without claws. Rated voltage: 250 V~ Rated current: 10 A delivery on request		
anthracite	**2192-02 UC-81-500**		
	delivery on request		
studio white	**2192-02 UC-84-500**		
	**Socket outlet [1] with earth pin** With screwless terminals. Suitable for the countries: Belgium, Poland, Czech Republic. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A		
	20 M-500	2CKA002017A0854	10/100

[1] Insert can be used for all covers 2399 UCKS-xx.

Product	Article-No.	Order-No.	Pack/Qty
	**Socket outlet cover frame shuttered** For socket outlet insert 20 M-500. Rated voltage: 250 V~		
anthracite	**2399 UCKS-81**	2CKA002099A0216	10
aluminium silver [1]	**2399 UCKS-83**	2CKA002099A0241	10/100
studio white	**2399 UCKS-84**	2CKA002099A0214	10
grey metallic [1]	**2399 UCKS-803**	2CKA002099A0253	10
studio white, matt [1]	**2399 UCKS-884**	2CKA002099A0255	10
black matt [1]	**2399 UCKS-885**	2CKA002099A0256	10/100

[1] Surface painted.

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Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**Socket outlet with earthing pin** With screwless terminals. Suitable for the countries like Poland, Czech Republic. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
studio white	**20 MUC-84-500**	2CKA002017A0786	10/100
studio white, matt [1])	**20 MUC-884-500**	2CKA002017A0859	10

[1]) Surface painted.

	**Socket outlet [1]) with earth. pin/increased shock protection** With screwless terminals. Shuttered. Suitable for the countries like Poland, Czech Republic. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 MUCKS-81-500**	2CKA002017A0898	10
aluminium silver [2])	**20 MUCKS-83-500**	2CKA002017A0899	10
studio white	**20 MUCKS-84-500**	2CKA002017A0807	10
grey metallic [2])	**20 MUCKS-803-500**	2CKA002017A0852	10
studio white matt [2])	**20 MUCKS-884-500**	2CKA002017A0901	10
black matt [2])	**20 MUCKS-885-500**	2CKA002017A0902	10

[1]) Socket outlet with integrated child protection. Replaces the usual term"...with child protection".
[2]) Surface painted.

	**Chinese socket outlet, 10 A** 1gang With screw-type terminals. Without claws. According to Chinese standard: GB 2099.1 Rated voltage: 250 V~ Rated current: 10 A Rated current: 10 A delivery on request		
anthracite	**2193 EUC/10-81-500**		
	delivery on request		
studio white	**2193 EUC/10-84-500**		

	**Chinese socket outlet, 16 A** 1gang With screw-type terminals. Without claws. According to Chinese standard: GB 2099.1 Rated voltage: 250 V~ Rated current: 16 A delivery on request		
anthracite	**2193 EUC/16-81-500**		
	delivery on request		
studio white	**2193 EUC/16-84-500**		

Product	Article-No.	Order-No.	Pack/Qty
	**Chinese and Euro American socket outlet, 10 A** 1gang With screw-type terminals. Without claws. According to Chinese standard: GB 2099.1 Rated voltage: 250 V~ Rated current: 10 A delivery on request		
anthracite	**2195 EUC/10-81-500**		
	delivery on request		
studio white	**2195 EUC/10-84-500**		

	**International socket outlet 13A [1])** 1gang With screw-type terminals. Without claws. Rated voltage: 250 V~ Rated current: 13 A delivery on request		
anthracite	**2197 EUC-81-500**		
	delivery on request		
studio white	**2197 EUC-84-500**		

[1]) Usage may be restricted in certain countries.

	**Euro American socket outlet with earth, 16 A** 1gang With screw-type terminals. Without claws. Rated voltage: 250 V~ Rated current: 16 A delivery on request		
anthracite	**2196 EUC-81-500**		
	delivery on request		
studio white	**2196 EUC-84-500**		

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Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**WLAN access point, flush-mounted [1] [2]** **power supply from mains power** Operation as WLAN access point for the connection of WLAN terminal devices to the LAN. Operation as WLAN repeater for extending the transmission range of a WLAN. Operation as WLAN adapter for integrating Ethernet terminal devices into a WLAN. Supports WLAN standards IEEE 802.11b/g/n with 2.4 GHz; integrated WLAN antenna. Backward connection of an Ethernet cable via screw terminals (10/100 Mbit/s). Front-side Ethernet connection via a RJ45 socket (10/100 Mbit/s). The three connections (WLAN, Ethernet/screw terminals and Ethernet/RJ45)can be used in parallel via the integrated switch. Power supply via 2-pole connecting terminal. Nominal voltage: 100 - 240 V~ For mounting in commercially available deep flush-mounted and hollow-wall boxes. Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20 Dimensions: (L x W x D): 80 mm		
	8186/31-101-500	2CKA008100A0359	1

[1] Suitable for cover plate 1803-xxx.
[2] Not to be mounted in SM box 1701-xxx, 1702-xxx, 1703-xxx.

	**Reset magnet** For resetting WLAN access point UP 8186/31-101 and WLAN access point PoE UP 8186/41 to the factory settings. Protection class (Device): IP 20		
	8186/11-500	2CKA008100A0361	1

	**Universal data connection unit, cat. 3 [1]** **1gang** With down-leading outlet. For 8-pole plug, RJ 11/12, RJ 45, ISDN capability, Cat. 3. Design according to IEC 60 603-7-2:2007. Screw contacts With claw. Protection class (Device): IP 20		
	0213-500	2CKA000230A1549	10/100

[1] Suitable for cover plate 1803-xxx.

	**Universal data connection box with down-leading outlet [1]** **2gang internally parallel connected** With down-leading outlet. For 8-pole plug, RJ 11/12, RJ 45, ISDN capability, Cat. 3. Design according to IEC 60 603-7-2:2007. Screw contacts With claw. Protection class (Device): IP 20		
	0214	2CKA000230A0235	10/100
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		

[1] Suitable for cover plate 1803-02-xxx.

Product	Article-No.	Order-No.	Pack/Qty
	**Universal data connection box with down-leading outlet [1]** **2 x outlets, 8/8-pole** With down-leading outlet. For 8-pole plug, RJ 11/12, RJ 45, ISDN capability, Cat. 3. Design according to IEC 60 603-7-2:2007. Screw contacts With claw. Protection class (Device): IP 20		
	0215	2CKA000230A0243	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		

[1] Suitable for cover plate 1803-02-xxx.

	**Data-connection box, RJ 45, cat. 6a iso, shielded [1]** **1gang** With down-leading outlet and LSA self-cutting clamps. RJ-45 terminals for networks according to Cat 6A, Class EA (10 Gbits/s / 500MHz). Equates to cat. 6a, Class EA according to ISO/IEC 11801:2011-06. Terminal marking A and B according to TIA/EIA-568-B.2. Typ according to EN 60 603-7-51:2011-01. Shielding according to DIN EN 55022, Class B. Up to 500 MHz on all pairs of wires. Suitable for 10-Gigabit Ethernet. Suitable for PoE+ according to IEEE 802.3at, >- 1.000 contact durability. Flex cable entries from all sides without buckles. Earthing of housing via 6,3 mm blade terminal at the back possible. Re-embedded proofed. Suitable for Mix-and-Match operation. Suitable for RJ 11, RJ 12 und RJ 45. For data cables with a diameter of 6 -10 mm. For wires of AWG 24-22. For trunk systems, flush-mounted wall boxes and underfloor systems. Without claws. Mounting depth: 31 mm. Protection class (Device): IP 20		
	0218/11-101	2CKA000230A0409	1/10

[1] Suitable for cover plate 1803-xxx.

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Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**Data-connection box, RJ 45, cat. 6a iso, shielded [1]) 2 x outlets, 8/8-pole** With down-leading outlet and LSA self-cutting clamps. RJ-45 terminals for networks according to Cat 6A, Class EA (10 Gbits/s / 500MHz). Equates to cat. 6a, Class EA according to ISO/IEC 11801:2011-06. Terminal marking A and B according to TIA/EIA-568-B.2. Typ according to EN 60 603-7-51:2011-01. Shielding according to DIN EN 55022, Class B. Up to 500 MHz on all pairs of wires. Suitable for 10-Gigabit Ethernet. Suitable for PoE+ according to IEEE 802.3at, >- 1.000 contact durability. Flex cable entries from all sides without buckles. Earthing of housing via 6,3 mm blade terminal at the back possible. Re-embedded proofed. Suitable for Mix-and-Match operation. Suitable for RJ 11, RJ 12 und RJ 45. For data cables with a diameter of 6 -10 mm. For trunk systems, flush-mounted wall boxes and underfloor systems. For wires of AWG 24-22. Without claws. Mounting depth: 31 mm. Protection class (Device): IP 20		
	0218/12-101	2CKA000230A0411	1/10

[1]) Suitable for cover plate 1803-02-xxx.

Product	Article-No.	Order-No.	Pack/Qty
	**Universal data connection box 8(6)/ telephone unit 6F+N - connection box [1]) 2 x 6-pole** with straight outlet, with screw contacts, Universal data-connection boxes: RJ 11/12, ISDN capable Cat. 3 in acc. with IEC 603-7/German Standard DIN EN 60603-7, Telecommunication outlet (telephone unit): for 1 telephone, 1 auxiliary device or 1 data transmission unit, With claw. Protection class (Device): IP 20		
white	**UAE 8(6)TAE 6 F+N**	2CKA000230A0381	10/100

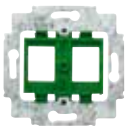
[1]) Suitable for cover plate 2539-xxx, 1766-xxx and 1746-2xx-FN.

Product	Article-No.	Order-No.	Pack/Qty
	**Satellite co-axial outlets 2 connectors/dead-end feeder** Broadband technology 5-2.400 MHz For DVB-T, satellite and broad-band cable systems. For analogue and digital transmission. With claw. Minimal installation depth, class A. Protection class (Device): IP 20		
	0230-101	2CKA000230A0250	10/100

Product	Article-No.	Order-No.	Pack/Qty
	**Antenna socket insert Radio/TV 2 connectors/loop through type** Broadband technology 5-2.400 MHz For DVB-T, satellite and broad-band cable systems. For analogue and digital transmission. With claw. Minimal installation depth, class A. Protection class (Device): IP 20		
	0231-101	2CKA000230A0268	10/100

Product	Article-No.	Order-No.	Pack/Qty
	**Satellite co-axial outlets Radio/TV/SAT 3gang dead-end feeder** Broadband technology 47-2.150 MHz. SAT connection designed as screwable F-male plug. with remote feed via F-bush For DVB-T and broadband-cable-systems. For analogue and digital transmission. With claw. Minimal installation depth, class A. Protection class (Device): IP 20		
	0232-101-500	2CKA000230A0463	10/100

Product	Article-No.	Order-No.	Pack/Qty
	**Terminating resistor 75 Ohm** Protection class (Device): IP 20		
	0239	2CKA000230A0201	10/100

Product	Article-No.	Order-No.	Pack/Qty
	**Mounting plate [1]) [2]) with green insert** For 2 modular jack inserts. For systems: CommScope (AVAYA / AT&T / Lucent Technologies), GigaSPEED, PowerSUM, 360 GS 10E bis MGS 600-BK, M1 BH-xx, MPS 100E-xx. With R&M adapter R310694 suitable for R&M connection modules R305111, R305112, R305113 and R305114. Pitch dimensions: (WxH) approx. 16.9 x 17.9 mm. Without claws. Protection class (Device): IP 20		
	1810-500	2CKA001753A9974	10/100

[1]) Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2]) For further information, please refer on the Internet.

Product	Article-No.	Order-No.	Pack/Qty
	**Mounting plate [1]) [2]) with red insert** For 2 modular jack inserts. Suitable for Art. Nos. 0210, 0211 and 0219-101. For systems: AMP / tyco Electronics, BTR, EFB, Krone, Panduit, Quante, Radiall, Setec, Dr.-Ing. Sieger, Telena, Thomas & Betts For Telegärtner AMJ/UMJ connection modules/ couplings. For 2 fiber optic modules of the following types: 3M-Volition, Krone, mvk. Pitch dimensions: (WxH) approx. 14.8 x 19.4 mm. Without claws. Protection class (Device): IP 20		
	1812-500	2CKA001753A9972	10/100

[1]) Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2]) For further information, please refer on the Internet.

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Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**Mounting plate [1] [2]** **with black insert** For MTRJ or 2 modular jack inserts. For systems: Ackermann, AMP / tyco Electronics (Slim Line (SL) -SM 2gang/switches: 110Connect Jacks, Toolless Jacks / Standard 110Connect Jacks), Brand-Rex, CombiNet, EFB Electronic, Telena. For 2 fiber optic modules of the following types: AMP / tyco Electronics MTRJ. Pitch dimensions: (WxH) approx. 14.8 x 20.4 mm. Without claws. Protection class (Device): IP 20		
	1814-500	2CKA001753A9973	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

	**Mounting plate [1] [2]** **with blue insert** For 2 modular jack inserts. For system: ITT Cannon RJ45 Cat. 5 type 808 RJ45 Mark III. Pitch dimensions: (WxH) approx. 16.0 x 11.0 mm. Without claws. Protection class (Device): IP 20		
	1816	2CKA001710A3100	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

	**Mounting plate [1] [2]** **with orange base** For 2 modular jack inserts. For system: LexCom 150 and LexCom 250. Pitch dimensions: (WxH) approx. 15.4 x 15.4 mm. Without claws. Protection class (Device): IP 20		
	1819	2CKA001753A8056	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

	**Mounting plate [1] [2]** **with grey base** For 2 modular jack inserts. For system: Panduit MiniCom (Cu. z.B. TX6 10 Gig Shielded Jack modules and fiber optic modules. Pitch dimensions: (WxH) approx. 15.9 x 18.7 mm. Without claws. Protection class (Device): IP 20		
	1820	2CKA001753A8057	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

	**Flush-mounted assembly adapter** For the accommodation of one or two universal modules 0219. For flush-mounted installation. Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. Protection class (Device): IP 20		
	0219/12	2CKA000230A0395	1/10

	**Channel assembly adapter** For the accommodation of one or two universal modules 0219. For channel and under-floor installation. Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. Protection class (Device): IP 20		
	0219/13	2CKA000230A0396	1/10

	**Universal module, RJ 45, cat. 6a iso, shielded [1]** **1gang** For installation in installation adapter 0219/12 or 0219/13. Also suited for mounting into cover plate 2561-xxx, 2564-02-xxx and bases 1812, 1866 EB, and 1867 EB. RJ-45 terminals for networks according to Cat 6A, Class EA (10 Gbits/s / 500MHz). Equates to cat. 6a, Class EA according to ISO/IEC 11801:2011-06. Cat. 6A according to ISO/IEC 11801: 2011-06. Terminal marking A and B according to TIA/EIA-568-B.2. Typ according to EN 60 603-7-51:2011-01. Shielding according to DIN EN 55022, Class B. Suitable for PoE+ according to IEEE 802.3at, >- 1.000 contact durability. Bend-radius optimised cable feed (30°). Earthing of housing via 6,3 mm blade terminal at the back possible. Re-embedded proofed. Suitable for Mix-and-Match operation. For 8-pole plug RJ 45 only. Housing made from diecast zinc. With integrated dust-protection cap (can be removed if necessary). With insulation displacement connection For data cables with a diameter of 6 -10 mm. For wires of AWG 24-22. For trunk systems, flush-mounted wall boxes and underfloor systems. Protection class (Device): IP 20		
	0219-101	2CKA000230A0413	1/10

[1] With assembly adapters appropriate for telephone unit cover plates 2539-21x and 1766-xxx.

	**Modular-Jack insert** **6-pole Cat. 3 (AMP-No. 216000-2)** For cover plate 2561-xxx, 2561-02-xxx and insert 1812, 1866 built-in, 1867 built-in. For conductor cross-sections of 0.12 mm² (AWG 26) to 0.35 mm² (AWG 22). Protection class (Device): IP 20		
	0210	2CKA000225A0078	10

	**Modular-Jack insert** **8-pole Cat. 3 (AMP-No. 216005-4)** For cover plate 2561-xxx, 2561-02-xxx and insert 1812, 1866 built-in, 1867 built-in. For conductor cross-sections of 0.12 mm² (AWG 26) to 0.35 mm² (AWG 22). Protection class (Device): IP 20		
	0211	2CKA000225A0086	10

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Product	Article-No.	Order-No.	Pack/Qty
	**Built-in jack** For potential balancing jack cover plate and installation in cover plates. For devices of 19 mm diameter. Protection class (Device): IP 20		
	0471-0-0037	2CKA000471A0037	10
	**Potential balancing plug** Suitable for plug 2095 UC-212 and built-in jack 0471-0-0037 acc. to German Standard DIN 42801. For potential balancing jack cover plate (connection up to 6 mm² crimped or soldered) Protection class (Device): IP 20		
	0299-0-0032	2CKA000299A0032	10
	**Blank plate** **with metal mounting plate** Protection class (Device): IP 20		
anthracite	**1742-81**	2CKA001710A3612	10
aluminium silver [1])	**1742-83**	2CKA001710A3664	10
studio white	**1742-84-500**	2CKA001710A3991	10/100
grey metallic [1])	**1742-803**	2CKA001710A3843	10
studio white, matt [1])	**1742-884**	2CKA001710A3873	10/100
black matt [1])	**1742-885**	2CKA001710A3895	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1])** As cover for flex outlet, for cords up to 10.3 mm diameter. With strain relief (without terminal block). Protection class (Device): IP 20		
anthracite	**1749-81**	2CKA001710A3614	10
aluminium silver [2])	**1749-83**	2CKA001710A3665	10
studio white	**1749-84**	2CKA001710A3163	10/100
grey metallic [2])	**1749-803**	2CKA001710A3844	10
studio white, matt [2])	**1749-884**	2CKA001710A3878	10
black matt [2])	**1749-885**	2CKA001710A3900	10

[1]) Cover plate can also be used individually as cover for telephone connector boxes (VDo).
[2]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1])** As cover for universal data connection boxes. Art.-No. 0213 (Cat 3/ISDN), 0216-101, 0218/11-101 (Cat 5e/6 data technology) and comparable types of the company Rutenbeck. For WLAN access points 8186/31 and 8186/41. Brand-Rex (WAEGV 8 EKR/EK). BTR (universal data connecting unit design and IAE design). Telegärtner (AMJ 45, UMJ 45). With down-leading outlet. With labelling field. Size of labelling field: 60 x 9 mm. Protection class (Device): IP 20		
anthracite	**1803-81**	2CKA001710A3616	10
aluminium silver [2])	**1803-83**	2CKA001710A3674	10
studio white	**1803-84-500**	2CKA001710A1550	10/100
grey metallic [2])	**1803-803**	2CKA001710A3852	10
studio white, matt [2])	**1803-884**	2CKA001710A3889	10
black matt [2])	**1803-885**	2CKA001710A3912	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1])** **2gang** As cover for universal data connection boxes. Art. No. 0214, 0215 (Cat 3), 0220/12-507, 0221/12-507, 0218, 0217 (Cat 5e/6 data technology) and comparable types of the company Rutenbeck. Brand-Rex (WAEGV 8/8 EKR/EK). AMP (NETCONNECT 5E). BTR (E-DAT C6, E-DAT design, Universal data connecting unit design and IAE design). cti (cti-wire 2.8 Cat.6). Telegärtner (AMJ 45, UMJ 45). With down-leading outlet. With labelling field. Size of labelling field: 60 x 9 mm. Protection class (Device): IP 20		
anthracite	**1803-02-81**	2CKA001710A3615	10
aluminium silver [2])	**1803-02-83**	2CKA001710A3610	10/100
studio white	**1803-02-84-500**	2CKA001710A1551	10/100
grey metallic [2])	**1803-02-803**	2CKA001710A3853	10
studio white, matt [2])	**1803-02-884**	2CKA001710A3888	10
black matt [2])	**1803-02-885**	2CKA001710A3911	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Surface painted.

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Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For telephone connection unit. For USB, VGA, HDMI inserts and communication adapter. USB power adapter insert 6472 U-500-101. USB power adapter insert 6475 U-101-500. For loudspeaker connection box. Suitable for part number 0248/0x-101. For data modules. Suitable for Art. No. 0219/12 and 0219/13. For modular outlets with 90° RJ45 outlet from Telegärtner (type MJ and WE). Protection class (Device): IP 20		
anthracite	**1766-81**	2CKA001710A3613	10
aluminium silver [1])	**1766-83**	2CKA001710A3659	10/100
studio white	**1766-84-500**	2CKA001710A3992	10/100
grey metallic [1])	**1766-803**	2CKA001710A3854	10
studio white, matt [1])	**1766-884**	2CKA001710A3926	10
black matt [1])	**1766-885**	2CKA001710A3903	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** As cover for telephone connector boxes (VDo). Can be knocked out for single or double connection. Protection class (Device): IP 20		
anthracite	**1745-81**	2CKA001710A3624	10
studio white	**1745-84**	2CKA001710A3173	10
grey metallic [1])	**1745-803**	2CKA001710A3855	10
black matt [1])	**1745-885**	2CKA001710A3896	10
aluminium silver [1])	**1745-83**	2CKA001710A3675	10
studio white, matt [1])	**1745-884**	2CKA001710A3874	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1])** **socket outlet** Telephone socket (TDO)		
anthracite	**1762-81-506**	2CKA001710A4103	10/100
aluminium silver [2])	**1762-83-506**	2CKA001710A4105	10/100
studio white	**1762-84-506**	2CKA001710A4106	10/100
grey metallic [2])	**1762-803-506**	2CKA001710A4102	10/100
studio white matt [2])	**1762-884-506**	2CKA001710A4108	10/100
black matt [2])	**1762-885-506**	2CKA001710A4109	10/100

[1]) Suitable insert: TDO 3x 10 OUP (for 1 telephone and 2 auxiliary devices).
[2]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1]) [2])** **as cover for standard Radio/TV/SAT socket outlets** With 2 connectors Acc. to German Standard DIN 45330. Radio/TV/SAT. With M3 fixing screw. Protection class (Device): IP 20		
anthracite	**1743-81**	2CKA001724A4252	10
aluminium silver [3])	**1743-83**	2CKA001724A4262	10
studio white	**1743-84-500**	2CKA001724A4332	10/100
grey metallic [3])	**1743-803**	2CKA001724A4291	10
studio white, matt [3])	**1743-884**	2CKA001724A4293	10/100
black matt [3])	**1743-885**	2CKA001724A4298	10/100

[1]) Third opening can be knocked out.
[2]) See inserts for satellite coaxial socket outlets.
[3]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** As cover for 4gang Satellite co-axial socket outlet EVU 02 F, GEVU 15 S from Hirschmann. Protection class (Device): IP 20		
anthracite	**1743-04-81**	2CKA001724A4374	10
aluminium silver [1])	**1743-04-83**	2CKA001724A4376	10
studio white	**1743-04-84**	2CKA001724A4377	10
grey metallic [1])	**1743-04-803**	2CKA001724A4373	10
studio white, matt [1])	**1743-04-884**	2CKA001724A4379	10
black matt [1])	**1743-04-885**	2CKA001724A4380	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** As cover for 4gang Satellite co-axial socket outlet SAT400/EAS/DC, EAS 405, 413 DAS from Ankaro. Protection class (Device): IP 20		
anthracite	**1743/10-04-81**	2CKA001724A4365	10
aluminium silver [1])	**1743/10-04-83**	2CKA001724A4367	10
studio white	**1743/10-04-84**	2CKA001724A4368	10/100
grey metallic [1])	**1743/10-04-803**	2CKA001724A4364	10
studio white, matt [1])	**1743/10-04-884**	2CKA001724A4370	10
black matt [1])	**1743/10-04-885**	2CKA001724A4371	10

[1]) Surface painted.

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Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1]) with labelling field** For modular jack with slide entrance. To fit only Art. No. 1810, 1812, 1814, 1816, 1818, 1819 and 1820. Size of labelling field: 60 x 9 mm. Protection class (Device): IP 20		
anthracite	**1800-81**	2CKA001710A3627	10
aluminium silver [2])	**1800-83**	2CKA001710A3676	10
studio white	**1800-84-500**	2CKA001710A3990	10/100
grey metallic [2])	**1800-803**	2CKA001710A3856	10
studio white, matt [2])	**1800-884**	2CKA001710A3887	10
black matt [2])	**1800-885**	2CKA001710A3910	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Surface painted.

	**Cover plate** For 1 modular jack. Suitable for Art. Nos. 0210, 0211 and 0219-101. Without claws. Protection class (Device): IP 20		
anthracite	**2561-81**	2CKA001753A0400	10
aluminium silver [1])	**2561-83**	2CKA001753A0402	10
studio white	**2561-84**	2CKA001753A0403	10
grey metallic [1])	**2561-803**	2CKA001753A0399	10
studio white, matt [1])	**2561-884**	2CKA001753A0405	10
black matt [1])	**2561-885**	2CKA001753A0406	10

[1]) Surface painted.

	**Cover plate** For 2 modular jack inserts. Suitable for Art. No. 0210 and 0211. Without claws. Protection class (Device): IP 20		
anthracite	**2561-02-81**	2CKA001753A0317	10
aluminium silver [1])	**2561-02-83**	2CKA001753A0393	10
studio white	**2561-02-84**	2CKA001753A0394	10
grey metallic [1])	**2561-02-803**	2CKA001753A0316	10
black matt [1])	**2561-02-885**	2CKA001753A0397	10
studio white, matt [1])	**2561-02-884**	2CKA001753A0396	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	Cover plate For telecommunication inserts with cover plate 50 x 50 mm. With cover plate 50 x 50 mm, AMP, Brand-Rex, Rutenbeck, BTR, Telegärtner, etc. Protection class (Device): IP 20		
anthracite	**1746/10-81**	2CKA001710A3628	10
aluminium silver [1])	**1746/10-83**	2CKA001710A3677	10
studio white	**1746/10-84-500**	2CKA001710A3993	10/100
grey metallic [1])	**1746/10-803**	2CKA001710A3857	10
studio white, matt [1])	**1746/10-884**	2CKA001710A3875	10
black matt [1])	**1746/10-885**	2CKA001710A3897	10

[1]) Surface painted.

	Intermediate ring **Reflex SI/SI Linear** For fitting cover plates from the Busch-Duro 2000® SI and Reflex SI range. Protection class (Device): IP 20		
studio white	**1747 SI-84**	2CKA001710A3863	10
aluminium silver [1])	**1747 SI-83**	2CKA001710A4091	10

[1]) Surface painted.

	**Intermediate ring** **Busch-balance® SI** For attaching cover plates from the Busch-balance® SI range. Delivery without cover plate. Protection class (Device): IP 20		
anthracite	**1747 BSI-81**	2CKA001710A4093	10
aluminium silver [1])	**1747 BSI-83**	2CKA001710A4095	10
studio white	**1747 BSI-84**	2CKA001710A4096	10/100
grey metallic [1])	**1747 BSI-803**	2CKA001710A4092	10
studio white, matt [1])	**1747 BSI-884**	2CKA001710A4098	10
black matt [1])	**1747 BSI-885**	2CKA001710A4099	10

[1]) Surface painted.

	Cover plate [1]) With hinged lid. For telecommunication inserts with cover plate 50 x 50 mm. With cover plate 50 x 50 mm, AMP, Brand-Rex, Rutenbeck, BTR, Telegärtner, etc. Protection class (Device): IP 20		
anthracite	**1746-81**	2CKA001710A3618	10
aluminium silver [2])	**1746-83**	2CKA001710A3678	10
studio white	**1746-84**	2CKA001710A3167	10
grey metallic [2])	**1746-803**	2CKA001710A3858	10
studio white, matt [2])	**1746-884**	2CKA001710A3876	10
black matt [2])	**1746-885**	2CKA001710A3898	10

[1]) Combinable only with covers for flush-mounted inserts
[2]) Surface painted.

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Product	Article-No.	Order-No.	Pack/Qty
	**Intermediate ring with hinged lid** [1] **Busch-balance® SI** For attaching cover plates from the Busch-balance® SI range. Delivery without cover plate. With sealing ring. With hinged lid. Protection class (Device): IP 44 Dimensions: (L x W x D): 63 mm x 63 mm x 20 mm		
anthracite	**2518-WD-81**	2CKA001719A0217	10
aluminium silver [2]	**2518-WD-83**	2CKA001719A0219	10
studio white	**2518-WD-84**	2CKA001719A0220	10
grey metallic [2]	**2518-WD-803**	2CKA001719A0216	10
studio white, matt [2]	**2518-WD-884**	2CKA001719A0222	10
black matt [2]	**2518-WD-885**	2CKA001719A0223	10

[1] Combinable only with covers for flush-mounted inserts
[2] Surface painted.

	**XLR centre plate** As cover for Neutrik plug connectors, type D series. Without claws. Protection class (Device): IP 20		
anthracite	**2553-81**	2CKA001724A4399	10
aluminium silver [1]	**2553-83**	2CKA001724A4401	10
studio white	**2553-84**	2CKA001724A4402	10
grey metallic [1]	**2553-803**	2CKA001724A4398	10
studio white, matt [1]	**2553-884**	2CKA001724A4404	10
black matt [1]	**2553-885**	2CKA001724A4405	10

[1] Surface painted.

	**Cover plate with metal mounting plate** For covering universal data communication connectors and circular connectors with screwed plug M 16x0.75 (installable in insert) in accordance with DIN 41524, 41529, 45322, 45327, 45328 and 45329. Knock-out openings 6, 8, 18 mm. Protection class (Device): IP 20		
anthracite	**1748-81**	2CKA001710A3654	10
aluminium silver [1]	**1748-83**	2CKA001710A3673	10
studio white	**1748-84**	2CKA001710A3656	10
grey metallic [1]	**1748-803**	2CKA001710A3851	10
studio white, matt [1]	**1748-884**	2CKA001710A3877	10
black matt [1]	**1748-885**	2CKA001710A3899	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate with metal mounting plate** As cover for BNC and TNC sockets. Knock-out openings 6, 8, 18 mm. Protection class (Device): IP 20		
anthracite	**1750-81**	2CKA001710A3617	10
aluminium silver [1]	**1750-83**	2CKA001710A3679	10
studio white	**1750-84**	2CKA001710A3166	10
grey metallic [1]	**1750-803**	2CKA001710A3859	10
studio white, matt [1]	**1750-884**	2CKA001710A3879	10
black matt [1]	**1750-885**	2CKA001710A3901	10

[1] Surface painted.

	**Equipotential socket outlet 2gang** Without claws. For connecting wires up to 1 x 6 mm² and 4 x 2.5 mm². IEC 60601-1:2005; DIN EN 60601 (VDE 0750-1): July 2007 Connection bolts German Standard DIN 42801. Protection class (Device): IP 20		
anthracite	**2095 UC-81**	2CKA002495A0084	10
aluminium silver [1]	**2095 UC-83**	2CKA002495A0089	10
studio white	**2095 UC-84**	2CKA002495A0086	10
grey metallic [1]	**2095 UC-803**	2CKA002495A0097	10
studio white, matt [1]	**2095 UC-884**	2CKA002495A0091	10
black matt [1]	**2095 UC-885**	2CKA002495A0092	10

[1] Surface painted.

	**Cover plate with metal mounting plate** With screw-type terminal. Fixed with central locknut. As cover for pilot devices with a diameter of 22.5 mm Without claws. Protection class (Device): IP 20		
anthracite	**2533-81**	2CKA001724A4254	10
aluminium silver [1]	**2533-83**	2CKA001724A4261	10
studio white	**2533-84**	2CKA001724A4256	10
grey metallic [1]	**2533-803**	2CKA001724A4407	10
studio white, matt [1]	**2533-884**	2CKA001724A4296	10
black matt [1]	**2533-885**	2CKA001724A4301	10

[1] Surface painted.

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Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1])** **with metal mounting plate** for communication devices. With labelling field 60.2 x 10.2 mm. Without claws. Protection class (Device): IP 20		
anthracite	**1758-81**	2CKA001724A4253	10
aluminium silver [2])	**1758-83**	2CKA001724A4263	10
studio white	**1758-84**	2CKA001724A2761	10/100
grey metallic [2])	**1758-803**	2CKA001724A4292	10
studio white, matt [2])	**1758-884**	2CKA001710A3881	1
black matt [2])	**1758-885**	2CKA001724A4299	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Surface painted.

Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Radio DAB+ [1])** DAB+ and RDS stereo radio alarm clock for flush-mounted installation. With high-resolution colour display for showing additional information. Reception frequency: 87.50 MHz - 108.00 MHz. Receive frequency (DAB+): 174 MHz – 240 MHz. With external AUX input/output, reversible. For mono/stereo operation. 8 radio stations storable. With time and date display. With individual alarm and snooze function. With automatic switch-off function (automatic sleep mode). With extension input to remote-controlled ON/OFF switches. With integrated antenna. With additional connection for external antenna. Permitted speaker impedance: 4 - 8 Ohm Can be installed as 1gang and in multiple combinations. Control element: 4-button operation via floating rocker Display elements: ICU graphic display with 280 DPI. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Control/Signal outputs: 2, Loudspeaker output, impedance 4 Ohm Rated power: 2 W (RMS) Protection class (Device): IP 20 Temperature range (Device): 5 °C to 40 °C Dimensions: (L x W x D): 71 mm x 71 mm x 47 mm Mounting depth: 32 mm		
	8215 U-101-500	2CKA008200A0276	1/10

[1]) No claw. Screw-fixing via keyholes.

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Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Radio BTconnect DAB+ [1])** **With Bluetooth interface for music replay.** DAB+ and RDS stereo radio alarm clock for flush-mounted installation. With high-resolution colour display for showing additional information. With Bluetooth interface for music replay of mobile devices. Connection of external Bluetooth loudspeakers possible. Reception frequency: 87.50 MHz - 108.00 MHz. Receive frequency (DAB+): 174 MHz – 240 MHz. With external AUX input/output, reversible. For mono/stereo operation. 8 radio stations storable. With time and date display. With individual alarm and snooze function. With automatic switch-off function (automatic sleep mode). With extension input to remote-controlled ON/OFF switches. With integrated antenna. With additional connection for external antenna. Permitted speaker impedance: 4 - 8 Ohm Can be installed as 1gang and in multiple combinations. Bluetooth specification: 4.2. Bluetooth profiles supported: A2DP Number of stored Bluetooth connections: max. 8 Control element: 4-button operation via floating rocker Display elements: ICU graphic display with 280 DPI. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Rated power: 2 W (RMS) Protection class (Device): IP 20 Temperature range (Device): 5 °C to 40 °C Dimensions: (L x W x D): 71 mm x 71 mm x 47 mm Mounting depth: 32 mm Bluetooth		
	8217 U-101-500	2CKA008200A0279	1/10

[1]) No claw. Screw-fixing via keyholes.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Radio iNet [1]) [2]) [3]) [4])** WLAN Internet radio alarm clock for flush-mounted installation. For the reception of national and international radio stations via Internet. Radio station search possible via various genres. With high resolution graphic display and background illumination. With external AUX input. Integrated web-server for configuration and control. Remote operation with smartphone via browser surface. UPnP replay function. It is controlled via smartphone. For mono/stereo operation. 8 radio stations storable. With time and date display. With alarm function. With short-time timer. With automatic switch-off function (automatic sleep mode). With extension input to remote-controlled ON/OFF switches. With integrated WLAN antenna. WLAN Standards: IEEE 802.11b / IEEE 802.11g and IEEE 802.11n (2,4 GHz). WLAN safety: WPA / WPA2. Permitted speaker impedance: 4 - 8 Ohm Can be installed as 1gang and in multiple combinations. Rated voltage: 110 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20 Temperature range (Device): 5 °C to 40 °C Dimensions: (L x W x D): 71 mm x 71 mm x 49 mm Mounting depth: 33 mm APP		
	8216 U-500	2CKA008200A0153	1/10

[1]) No claw. Screw-fixing via keyholes.
[2]) Matching loudspeaker insert 8223 U.
[3]) Can also be combined with built-in loudspeaker (8222 EB) and moist atmosphere loudspeaker (8224 EB).
[4]) To be mounted only in connection with commercially available flush-mounted installation boxes according to DIN 49073 > 40 mm depth gauge or Busch-Jaeger art. no. 3040, 3050 or 3060.

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Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty
	**Loudspeaker insert [1])** **5 cm (2")** With flat plug connector. With broadband characteristics. Rated output: 2 W (RMS) Incl. speaker connection cable. Frequency response: 200 - 20,000 Hz Impedance: 4 Ohm Protection class (Device): IP 20, SELV Mounting depth: 32 mm		
	8223 U-500	2CKA008200A0183	1/10

[1]) No claw. Screw-fixing via keyholes.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-powerDock Insert [1]) [2]) [3]) [4])** For charging and supplying mobile terminal devices. With quick charging function for devices compatible with quick-chargeTM. Makes possible fast charging of the mobile terminal device. Rated voltage: 100 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Suitable for: Apple terminal device Rated current: 2.1 A Output voltage: 5 V- Suitable for: Terminal device with USB-C connection Rated current: 2.1 A Output voltage: 5 V- Suitable for: Terminal device with quick-charge support and USB-C connection and quick-charge TM function. Rated current: 2 A Output voltage: 9 V- Protection class (Device): IP 20, SELV Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 32 mm Mounting depth: 32 mm		
	6473 U-500	2CKA006400A0039	1/10

[1]) No claw. Screw-fixing via keyholes.
[2]) The USB-C connection of the Busch-powerDock uses the quick charging function according to Qualcomm® Quick chargeTM 2.0 standard.
[3]) In rare cases the manufacturers of USB-C terminal devices support the quick-charging function independent of this standard only in case of charging devices that are the same as those of other manufacturers.
[4]) In these cases the quick-charging function of the terminal device is not enabled.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-powerDock Charging cradle with Apple lightning connection [1])** For Busch-powerDock insert 6473 U. For attaching mobile terminal devices with lightning connection. For iPhone XS Max, iPhone XS, iPhone XR, iPhone X. For iPhone 8 Plus, iPhone 8. For iPhone 7 Plus, iPhone 7. For iPhone SE. For iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6. For iPhone 5s, iPhone 5c, iPhone 5. For iPod touch (6th generation), iPod touch (5th generation), iPod nano (7th generation). Suitable for use with protective covers certified by Apple. Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 54 mm x 54 mm x 36 mm		
	6473-500	2CKA006400A0081	1/10

[1]) Not released for use with the iPad.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-powerDock Charging cradle with USB-C connection** For Busch-powerDock insert 6473 U. For attaching mobile terminal devices with USB-C connection. Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 54 mm x 54 mm x 36 mm		
	6473/11-500	2CKA006400A0083	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**USB power adapter insert, flush-mounted [1]) [2]) [3])** **With USB-A & USB-C interface** For supply and support of mobile devices via USB-cable. With USB type A and USB type C female connector. To support two devices at the same time. Supports automatic negotiating of optimum charging parameters for the shortest charging times. Support of loading protocol on the USB-A connection: Apple MFI with 2.4 A and BC 1.2 with 1.5 A. Support of the additional quick-charge protocols: USB-PD and quick-charge 3.0 & 4.0. With electronic short-circuit protection. With electronic overload protection. Rated voltage: 230 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 2x USB charging interface Suitable for: Only USB-A bus occupied: Rated current: 3000 mA Output voltage: 5 V- Suitable for: Only USB-C bus occupied: Rated power: 18 W Suitable for: USB-A and USB-C bus occupied. Total: Rated current: 3250 mA Output voltage: 5 V- Protection class (Device): IP 20, SELV Temperature range (Device): 0 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 43 mm Mounting depth: 32 mm		
	6475 U-500	2CKA006400A0399	1

[1]) No claw. Screw-fixing via keyholes.
[2]) No data transfer.
[3]) When cleaning the device, use dust cover 2098 for the USB-A connection.

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Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty
	**HDMI connection unit [1])** **with screw-type terminals and strain relief** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To link high-definition digital audio and video data from e.g. SAT-receiver, DVD-/Blue-Ray-player to plasma-type, LCD- or-LED-TVs/screens. HDMI-type A, 3D-compatible. Fully HD ready (1920 x 1080 pixel). For 20-wire HDMI-cables via srew-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. For easy mounting and adhering to the admissible bending radii, the Kaiser >Electronic socket<, article number 1068-02 or 9062-74, is recommended. Without cover plate. Without claws. Protection class (Device): IP 20 Mounting depth: 34 mm		
white	**0261/31-500**	2CKA000230A0430	1
grey	**0261/33-500**	2CKA000230A0432	1
alpine white	**0261/32-500**	2CKA000230A0431	1

[1]) Please follow the recommendations of the cable and device producers for the max. HDMI cable lengths.

Product	Article-No.	Order-No.	Pack/Qty
	**VGA connection unit [1])** **with screw-type terminals and strain relief** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To link analogue video data between PCs and laptops to monitors or digital projectors etc. VGA-type: D-type, 15-pole. Fully HD ready (1920 x 1080 pixel). For 15-wire VGA-cables via srew-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. For easy mounting and adhering to the admissible bending radii, the Kaiser >Electronic socket<, article number 1068-02 or 9062-74, is recommended. Without cover plate. Without claws. Protection class (Device): IP 20 Mounting depth: 34 mm		
white	**0261/21-500**	2CKA000230A0424	1
grey	**0261/23-500**	2CKA000230A0426	1
alpine white	**0261/22-500**	2CKA000230A0425	1

[1]) Please follow the recommendations of the cable and device producers for the max. VGA cable lengths.

Product	Article-No.	Order-No.	Pack/Qty
	**USB connection unit [1])** **with screw-type terminals and strain relief** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To link mobile devices like e.g. printer, scanner, USB-sticks or digital cameras etc. USB-type A, USB 2.0 compatible. For 5-wire USB- cables via srew-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. For easy mounting and adhering to the admissible bending radii, the Kaiser >Electronic socket<, article number 1068-02 or 9062-74, is recommended. Without cover plate. Without claws. Protection class (Device): IP 20 Mounting depth: 34 mm		
white	**0261/11-500**	2CKA000230A0418	1
grey	**0261/13-500**	2CKA000230A0420	1
alpine white	**0261/12-500**	2CKA000230A0419	1

[1]) Please follow the recommendations of the cable and device producers for the max. USB cable lengths.

Product	Article-No.	Order-No.	Pack/Qty
	**Communication adapter** **for BNC-F Duct-jacks** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To support 1 or 2 jacks. For trunk systems, flush-mounted wall boxes and underfloor systems. Without cover plate. Without claws. Protection class (Device): IP 20		
white	**0262/11-500**	2CKA000230A0436	1
grey	**0262/13-500**	2CKA000230A0438	1
alpine white	**0262/12-500**	2CKA000230A0437	1

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Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty
	**F duct-jack for communication adapter** For connection of antenna cables e.g.. for TVs with integrated TV-tuner and satellite receiver. With screw-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. Protection class (Device): IP 20		
metal clad	**0262-500**	2CKA000230A0440	1
	**Communication adapter for Cinch-jacks** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To support 1 or 2 jacks. For trunk systems, flush-mounted wall boxes and underfloor systems. Without cover plate. Without claws. Protection class (Device): IP 20		
white	**0263/11-500**	2CKA000230A0444	1
grey	**0263/13-500**	2CKA000230A0446	1
alpine white	**0263/12-500**	2CKA000230A0445	1
	**Cinch-jacks for communication adapter** To link analogue audio devices like audio-receiver, amplifier and HiFi-sets. Audio-band 20Hz - 20kHz. Marked white: audio , channel left. With soldering tag. Protection class (Device): IP 20		
alpine white	**0263/04-500**	2CKA000230A0451	1
	**Cinch-jacks for communication adapter** To link analogue audio devices like audio-receiver, amplifier and HiFi-sets. Audio-band 20Hz - 20kHz. Marked black: audio , channel left. With soldering tag. Protection class (Device): IP 20		
black	**0263/05-500**	2CKA000230A0452	1
	**Cinch-jacks for communication adapter** To link analogue audio devices like audio-receiver, amplifier and HiFi-sets. Audio-band 20Hz - 20kHz. Marked red: audio , channel left. With soldering tag. Protection class (Device): IP 20		
Red	**0263/06-500**	2CKA000230A0453	1
	**Cinch-jacks for communication adapter** For connecting analogue video devices, such as DVD players, hard disc recorders, video recorders or receivers. Marked yellow: audio , channel left. With soldering tag. Protection class (Device): IP 20		
yellow	**0263/07-500**	2CKA000230A0454	1

Product	Article-No.	Order-No.	Pack/Qty
	**Communication adapter for Mini-jacks 3,5mm.** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To support 1 or 2 jacks. For trunk systems, flush-mounted wall boxes and underfloor systems. Without cover plate. Without claws. Protection class (Device): IP 20		
white	**0264/11-500**	2CKA000230A0458	1
grey	**0264/13-500**	2CKA000230A0460	1
alpine white	**0264/12-500**	2CKA000230A0459	1
	**Mini-jack 3,5 mm for communication adapter** For the connection of mobile terminal devices such as MP3 player (stereo), mobile telephone and smartphones. Audio-band 20Hz - 20kHz. With soldering tag. Protection class (Device): IP 20		
chrome gloss	**0264-500**	2CKA000230A0462	1
	**Stereo loudspeaker connection box [1])** With screwless terminals (with screw-type terminals on the back). With 4 terminals. Cable cross-section max. 10 mm2. Polarity is indicated by color. With claw. Protection class (Device): IP 20		
white	**0248/02-101**	2CKA000230A0402	10/100

[1]) Suitable for cover telephone unit 1766-xxx and 2539-21x.

	**Stereo loudspeaker connection box [1])** With screwless terminals (with screw-type terminals on the back). With 4 terminals. Cable cross-section max. 10 mm2. Polarity is indicated by color. With claw. Protection class (Device): IP 20		

[1]) Suitable for cover telephone unit 1766-xxx and 2539-21x.

	**Stereo loudspeaker connection box [1])** With screwless terminals (with screw-type terminals on the back). With 4 terminals. Cable cross-section max. 10 mm2. Polarity is indicated by color. With claw. Protection class (Device): IP 20		
anthracite	**0248/05-101**	2CKA000230A0404	10/100

[1]) Suitable for cover telephone unit 1766-xxx and 2539-21x.

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Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For Busch-Radio DAB+ 8215 U-101. For Busch-Radio BTconnect DAB+ 8217 U-101. For Busch-Radio iNet 8216 U.		
anthracite	**8252-81-101-500**	2CKA008200A0249	10
aluminium silver [1])	**8252-83-101-500**	2CKA008200A0253	10
studio white	**8252-84-101-500**	2CKA008200A0255	10
grey metallic [1])	**8252-803-101-500**	2CKA008200A0257	10
studio white matt [1])	**8252-884-101-500**	2CKA008200A0259	10
black matt [1])	**8252-885-101-500**	2CKA008200A0261	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For loudspeaker insert 8223 U.		
anthracite	**8253-81**	2CKA008200A0078	1/10
aluminium silver [1])	**8253-83**	2CKA008200A0080	1/10
studio white	**8253-84**	2CKA008200A0081	1/10
grey metallic [1])	**8253-803**	2CKA008200A0115	1/10
studio white, matt [1])	**8253-884**	2CKA008200A0123	1/10
black matt [1])	**8253-885**	2CKA008200A0126	1/10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For telephone connection unit. For USB, VGA, HDMI inserts and communication adapter. USB power adapter insert 6472 U-500-101. USB power adapter insert 6475 U-101-500. For loudspeaker connection box. Suitable for part number 0248/0x-101. For data modules. Suitable for Art. No. 0219/12 and 0219/13. For modular outlets with 90° RJ45 outlet from Telegärtner (type MJ and WE). Protection class (Device): IP 20		
anthracite	**1766-81**	2CKA001710A3613	10
aluminium silver [1])	**1766-83**	2CKA001710A3659	10/100
studio white	**1766-84-500**	2CKA001710A3992	10/100
grey metallic [1])	**1766-803**	2CKA001710A3854	10
studio white, matt [1])	**1766-884**	2CKA001710A3926	10
black matt [1])	**1766-885**	2CKA001710A3903	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **with metal mounting plate** With fixing claws. loudspeaker inserts and cover. With soldering tag. For covering universal data communication connectors and circular connectors with screwed plug M 16x0.75 (installable in insert) in accordance with DIN 41524, 41529, 45322, 45327, 45328 and 45329. Protection class (Device): IP 20		
anthracite	**1751-81**	2CKA001723A0253	10
aluminium silver [1])	**1751-83**	2CKA001723A0254	10
studio white	**1751-84**	2CKA001723A0240	10/100
grey metallic [1])	**1751-803**	2CKA001723A0257	10
studio white, matt [1])	**1751-884**	2CKA001710A3880	1
black matt [1])	**1751-885**	2CKA001723A0259	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **with rotary control, with marking** As a cover for volume controllers. Suitable for the >LR mono BJ FM< devices of WHD. Protection class (Device): IP 20		
anthracite	**1740 DR/03-81**	2CKA001710A4120	10
aluminium silver [1])	**1740 DR/03-83**	2CKA001710A3811	10
studio white	**1740 DR/03-84**	2CKA001710A3808	10
grey metallic [1])	**1740 DR/03-803**	2CKA001710A4119	10
studio white, matt [1])	**1740 DR/03-884**	2CKA001710A3870	10
black matt [1])	**1740 DR/03-885**	2CKA001710A3892	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	Cover plate for Busch-powerDock For Busch-powerDock charging cradle.		
anthracite	**6477-81**	2CKA006400A0056	10
aluminium silver [1])	**6477-83**	2CKA006400A0058	10
studio white	**6477-84**	2CKA006400A0059	10/100
grey metallic [1])	**6477-803**	2CKA006400A0060	10
studio white matt [1])	**6477-884**	2CKA006400A0062	10
black matt [1])	**6477-885**	2CKA006400A0063	10

[1]) Surface painted.

Busch-axcent®

Room thermostats

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted** [1] [2] [3] Switch contact opens when the set temperature is reached. With fixing claws. Separate terminal to activate nighttime mode and reduction of room temperature by 4K. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Rated current: 10 A Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1094 U-500	2CKA001032A0512	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3] Switching temperature difference: ± 0.5 K.

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted** [1] [2] [3] **Slide switch** With built-in slide switch and control lamp for nightly reduction of 4 K. Switch contact opens when the set temperature is reached. With fixing claws. Separate terminal to activate nighttime mode and reduction of room temperature by 4K. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Rated current: 10 A Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1095 U-500	2CKA001032A0514	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3] Switching temperature difference: ± 0.5 K.

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted** [1] [2] [3] **Sliding switch, 24 V** With built-in slide switch and control lamp for nightly reduction of 4 K. Switch contact opens when the set temperature is reached. With fixing claws. Separate terminal to activate nighttime mode and reduction of room temperature by 4K. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 24 V~ Rated current: 1 A Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1096 U	2CKA001032A0485	1
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat, e.g., Art. No. 6164/10 .
[3] Switching temperature difference: ± 0.5 K.

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted** [1] [2] [3] **1gang 2way** With fixing claws. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Rated current: 5 A Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1097 U-500	2CKA001032A0513	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo valves of "closed or open when de-energized“ design are required for the controller. E.g. article no. 6164/10-101.
[3] Switching temperature difference: ± 0.5 K.

Busch-axcent®

Room thermostats

Product	Article-No.	Order-No.	Pack/Qty



Room thermostat, flush-mounted [1] [2] [3]
Actual value indication
With actual value temperature display
Automatic controller calibration
Switch contact opens when the set temperature is reached.
With fixing claws.
Separate terminal to activate nighttime mode and reduction of room temperature by 4K.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 10 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1094 UTA	2CKA001032A0487	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3] Switching temperature difference: ± 0.5 K.



Room thermostat, flush-mounted [1] [2] [3]
Sliding switch, actual value indication
With actual value temperature display
Automatic controller calibration
Switch contact opens when the set temperature is reached.
With built-in slide switch and control lamp for nightly reduction of 4 K.
With fixing claws.
Separate terminal to activate nighttime mode and reduction of room temperature by 4K.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 10 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1095 UTA	2CKA001032A0488	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3] Switching temperature difference: ± 0.5 K.

Product	Article-No.	Order-No.	Pack/Qty



Room thermostat, flush-mounted [1] [2] [3]
Sliding switch, actual value indication, 24 V
With actual value temperature display
Automatic controller calibration
Switch contact opens when the set temperature is reached.
With built-in slide switch and control lamp for nightly reduction of 4 K.
With fixing claws.
Separate terminal to activate nighttime mode and reduction of room temperature by 4K.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 24 V~
Rated current: 1 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1096 UTA	2CKA001032A0489	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat, e.g., Art. No. 6164/10 .
[3] Switching temperature difference: ± 0.5 K.



Room thermostat, flush-mounted [1] [2] [3]
Change-over contact, actual value indication
With actual value temperature display
Automatic controller calibration
With fixing claws.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 5 A
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1097 UTA	2CKA001032A0490	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo valves of "closed or open when de-energized“ design are required for the controller. E.g. article no. 6164/10-101.
[3] Switching temperature difference: ± 0.5 K.



Room thermostat, flush-mounted [1] [2] [3]
Change-over contact, setpoint indication, timer
With change-over contact.
Easy adjustment using menu and text-based display.
4 switching times per day can be user-defined for each day of the week.
With fixing claws.
Automatic summer/wintertime switch-over
Power reserve > 10 hours.
To fit cover plate 6435-xxx.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 10 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9

	1098 U-101	2CKA001032A0508	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo valves of "closed or open when de-energized“ design are required for the controller. E.g. article no. 6164/10-101.
[3] Switching temperature difference: ± 0.5 K.

Busch-axcent®

Room thermostats

Product	Article-No.	Order-No.	Pack/Qty



Room thermostat, flush-mounted [1])
Remote sensor
With remote sensor and thermal feedback
For underfloor heating.
With built-in slide switch and control lamp for nightly reduction of 4 K.
Switch contact opens when the set temperature is reached.
With fixing claws.
Remote sensor cable length: 4 m.
Sensor =NTC, 10 kilo-ohm at 25 degrees C.
Adjusting range: +10 to +50° C.
Connecting cable: 1mm² to 2.5 mm²
Separate terminal to activate nighttime mode and reduction of room temperature by 4K.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 16 A, cos ϕ 1
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1095 UF	2CKA001032A0497	1/10

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)



Room thermostat, flush-mounted [1]) [2])
Change-over contact, setpoint indication, timer, remote sensor
With change-over contact.
Easy adjustment using menu and text-based display.
4 switching times per day can be user-defined for each day of the week.
With fixing claws.
Automatic summer/wintertime switch-over
Remote sensor cable length: 4 m.
Sensor =NTC, 10 kilo-ohm at 25 degrees C.
Power reserve > 10 hours
To fit cover plate 6435-xxx.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 16 A
Temperature range (Device): 10 °C to 50 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9

	1098 UF-101	2CKA001032A0509	1/10

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2]) Servo valves of "closed or open when de-energized“ design are required for the controller. E.g. article no. 6164/10-101.

Product	Article-No.	Order-No.	Pack/Qty



Room thermostat, flush-mounted [1]) [2]) [3])
Heating/cooling
With separate connection (230 V~) for external switchover between heating or cooling.
Switch contact opens when the set temperature is reached.
With fixing claws.
Nominal current: 10 A heating
Nominal current: 5 A cooling
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 12 mmEN 60730-2-9, British Standard EN 60669-2-1

	1099 UHK	2CKA001032A0515	1/10

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2]) Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3]) Switching temperature difference: ± 0.5 K.



Room thermostat, flush-mounted [1]) [2]) [3])
Heating/cooling, sliding switch
With built-in sliding switch for switchover between cooling or heating.
Switch contact opens when the set temperature is reached.
With fixing claws.
Nominal current: 10 A heating
Nominal current: 5 A cooling
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 12 mmEN 60730-2-9, British Standard EN 60669-2-1

	1099 UHKEA	2CKA001032A0516	1/10

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2]) Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3]) Switching temperature difference: ± 0.5 K.



Cover plate
for room thermostat
For room thermostats 1094 U, 1097 U.

anthracite	**1794-81**	2CKA001710A3629	10
aluminium silver [1])	**1794-83**	2CKA001710A3668	10
studio white	**1794-84**	2CKA001710A3544	10
grey metallic [1])	**1794-803**	2CKA001710A3847	10
studio white, matt [1])	**1794-884**	2CKA001710A3884	10
black matt [1])	**1794-885**	2CKA001710A3907	10

[1]) Surface painted.

Busch-axcent®

Room thermostats

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate for room thermostat** With sliding switch for nightly room temperature reduction. to activate nighttime mode and reduction of room temperature by 4K, for thermostats 1095 U, 1096 U and 1095 UF.		
anthracite	**1795-81**	2CKA001710A3630	10
aluminium silver [1])	**1795-83**	2CKA001710A3669	10
studio white	**1795-84**	2CKA001710A3569	10
grey metallic [1])	**1795-803**	2CKA001710A3848	10
studio white, matt [1])	**1795-884**	2CKA001710A3886	10
black matt [1])	**1795-885**	2CKA001710A3909	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate for room thermostat** For room thermostats 1094 UTA, 1097 UTA.		
anthracite	**1794 TA-81**	2CKA001710A3695	10
aluminium silver [1])	**1794 TA-83**	2CKA001710A3697	10
studio white	**1794 TA-84**	2CKA001710A3698	10
grey metallic [1])	**1794 TA-803**	2CKA001710A3849	10
studio white, matt [1])	**1794 TA-884**	2CKA001710A3883	10
black matt [1])	**1794 TA-885**	2CKA001710A3906	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate for room thermostat** With sliding switch for nightly room temperature reduction. For room thermostats 1095 UTA, 1096 UTA.		
anthracite	**1795 TA-81**	2CKA001710A3722	10
aluminium silver [1])	**1795 TA-83**	2CKA001710A3724	10
studio white	**1795 TA-84**	2CKA001710A3725	10
grey metallic [1])	**1795 TA-803**	2CKA001710A3850	10
studio white, matt [1])	**1795 TA-884**	2CKA001710A3885	10
black matt [1])	**1795 TA-885**	2CKA001710A3908	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate for room thermostat** For comfort timer control element 6455-101-500. For standard timer control element 6456-101. For room thermostats 1098 U-101 and 1098 UF-101. For short-time timer 6465 U-101. For Busch-CO2 sensor 1091 U-500. For blind compact timer 6422 U.		
anthracite	**6435-81**	2CKA006430A0303	10
aluminium silver [1])	**6435-83**	2CKA006430A0305	10
studio white	**6435-84**	2CKA006430A0306	10
grey metallic [1])	**6435-803**	2CKA006430A0351	10
studio white, matt [1])	**6435-884**	2CKA006430A0388	10
black matt [1])	**6435-885**	2CKA006430A0389	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate for room thermostat** For room temperature controller 1099 UHK.		
anthracite	**1795 HK-81**	2CKA001710A4013	10
aluminium silver [1])	**1795 HK-83**	2CKA001710A4016	10
studio white	**1795 HK-84**	2CKA001710A4017	10
grey metallic [1])	**1795 HK-803**	2CKA001710A4012	10
studio white, matt [1])	**1795 HK-884**	2CKA001710A4019	10
black matt [1])	**1795 HK-885**	2CKA001710A4020	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate for room thermostat** For room temperature controller 1099 UHKEA. With sliding switch for switchover between cooling or heating.		
anthracite	**1795 HKEA-81**	2CKA001710A4045	10
aluminium silver [1])	**1795 HKEA-83**	2CKA001710A4048	10
studio white	**1795 HKEA-84**	2CKA001710A4049	10
grey metallic [1])	**1795 HKEA-803**	2CKA001710A4044	10
studio white, matt [1])	**1795 HKEA-884**	2CKA001710A4051	10
black matt [1])	**1795 HKEA-885**	2CKA001710A4052	10

[1]) Surface painted.

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LED light

Product	Article-No.	Order-No.	Pack/Qty
	Cover plate [1] [2] As cover for flush-mounted info light. For insert 2062 U. Size of information field 43 x 43 mm. Protection class (Device): IP 20		
anthracite	**1716-81**	2CKA001731A1921	1
aluminium silver [3]	**1716-83**	2CKA001731A1950	1
studio white	**1716-84**	2CKA001731A1923	1
grey metallic [3]	**1716-803**	2CKA001731A1976	1
studio white, matt [3]	**1716-884**	2CKA001731A1978	1
black matt [3]	**1716-885**	2CKA001731A1980	1

[1] Included with the cover are 46 different text labels and symbols.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **for indication lamp** For insert 2061/2661 U. As cover for flush-mounted light signal. Protection class (Device): IP 20		
anthracite	**1756-81**	2CKA001753A0089	10
aluminium silver [1]	**1756-83**	2CKA001753A0091	10
studio white	**1756-84**	2CKA001753A0092	10
grey metallic [1]	**1756-803**	2CKA001753A0088	10
studio white, matt [1]	**1756-884**	2CKA001753A0251	10
black matt [1]	**1756-885**	2CKA001753A0252	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cap** **for indication lamp** For indication lamps. Protection class (Device): IP 20		
clear-transparent	**1565-11**	2CKA001565A0167	10
Red	**1565-12**	2CKA001565A0175	10
green	**1565-13**	2CKA001565A0183	10

WaveLINE inserts / control elements

Product	Article-No.	Order-No.	Pack/Qty
	**RF remote control** • Network-independent radio control. • For switching and dimming. • For controlling blinds and light scenes. • With 3 groups (A, B or C) with 5 pairs of channels. • There are 15 radio channels operated singly or up to 30 light scenes can be called.		
	6780	2CKA006780A0002	1
	**1-fach Aktor WaveLINE** • For wireless switching of electrical loads. • Functions via radio control: ON/OFF, timer and light scene control. • Functions via the extension unit: ON/OFF, timer and sending a radio control telegram. • Operation via conventional push button (2020 US/2021/6 UK) possible.		
	6701-101-500	2CKA006700A0040	1
	**1-fach Aktor WaveLINE** • For wireless switching of electrical loads. • For functions ON/OFF, timer and lightscene control. • For wall mounted transmitter Waveline 6731-xxx, 6732-xxx und 6733-xxx. • For remote control WaveLINE 6780. • Switch-off delay: Adjustable between 10 s to 5 min.		
	6702-500	2CKA006700A0023	1
	**2-fach Aktor WaveLINE** • For wireless switching of electrical loads. • For operation mode 2gang switch, 2 separate outputs. • For operation mode timer: output 1 (eg lighting), output 2: ON/Off delay in dependence of output 1 (eg fan control). • For functions: ON/OFF and light scene control. • For wall mounted transmitter Waveline 6731-xxx, 6732-xxx und 6733-xxx		
	6703-500	2CKA006700A0024	1
	**Dimm Aktor WaveLINE** • For wireless switching and dimming of electrical loads. • For functions ON/OFF, dimming and lightscene control. • With soft ON/OFF function. • With selectable light value storage. • For wall mounted transmitter Waveline 6731-xxx, 6732-xxx und 6733-xxx.		
	6704-500	2CKA006700A0025	1

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WaveLINE inserts / control elements

WaveLINE inserts / control elements

Product	Article-No.	Order-No.	Pack/Qty
	**Serien/Jalousieaktor WaveL** • For wireless switching of electrical loads. • For driving and adjusting blinds/shutters and awnings over radio. • Functions via radio control: 2gang switch, blind switch and light scene control. • Functions via extension unit: 2gang switch, blind switch and send radio control telegram. • Operation via conventional push button (2020 US/2021/6 UK) possible.		
	6705-101-500	2CKA006700A0042	1
	**2-fach Binärein. WaveLINE** • Radio control telegrams are sent when the two extension units are activated with mains voltage (AC 230 V~). • Operation via conventional push button (2020 US/2021/6 UK) possible. • The 2gang binary input has 5 function modes: 1) 2-channel switching 2) 2-channel dimming 3) 1 channel blind 4) Two-channel light scene control 5) Channel 1: Switching ON Channel 2: Continuous switching ON/OFF		
	6725-500	2CKA006720A0008	1

WaveLINE inserts / control elements

Product	Article-No.	Order-No.	Pack/Qty
	**Wall-mounted transmitter WaveLINE [1] [2]** **4-channel** 4gang wall-mounted transmitter independent of mains power supply. With labelling field and labelling strip. For switching and dimming. For controlling blinds and light scenes. 4 radio channels can be operated or up to 8 light scenes can be called up. For flush-mounted WaveLINE actuators 6701-101, 6702, 6703, 6704 and 6705-101. Send frequency: 868 MHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery Type CR2032. Battery service life: typically 5 years, therefore practically maintenance-free. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Control element: rocker switch left/right Display elements: LED to indicate the transmission Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 16 mm		
aluminium silver [3]	**6733-83-500**	2CKA006730A0037	1/10
studio white	**6733-84-500**	2CKA006730A0040	1/10

[1] Battery included in delivery.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Wall-mounted transmitter WaveLINE [1] [2]** **1-channel** 1gang wall-mounted transmitter independent of mains power supply. With labelling field and labelling strip. For switching and dimming. For controlling blinds and light scenes. 1 radio channel can be operated or up to 2 light scenes can be called up. For flush-mounted WaveLINE actuators 6701-101, 6702, 6703, 6704 and 6705-101. Compatible with WaveLINE KNX gateway TP-RF 6770. Send frequency: 868 MHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery Type CR2032. Battery service life: typically 5 years, therefore practically maintenance-free. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Control element: rocker switch left/right Display elements: LED to indicate the transmission Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 16 mm		
aluminium silver [3]	**6731-83-500**	2CKA006730A0035	1/10
studio white	**6731-84-500**	2CKA006730A0038	1/10

[1] Battery included in delivery.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Surface painted.

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ZigBee Light Link inserts / control elements

Product	Article-No.	Order-No.	Pack/Qty
	**Wall-mounted transmitter WaveLINE [1] [2]** **2-channel** 2gang wall-mounted transmitter independent of mains power supply. With labelling field and labelling strip. For switching and dimming. For controlling blinds and light scenes. 2 radio channels can be operated or up to 4 light scenes can be called up. For flush-mounted WaveLINE actuators 6701-101, 6702, 6703, 6704 and 6705-101. Send frequency: 868 MHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery Type CR2032. Battery service life: typically 5 years, therefore practically maintenance-free. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Control element: rocker switch left/right Display elements: LED to indicate the transmission Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 16 mm		
aluminium silver [3]	**6732-83-500**	2CKA006730A0036	1/10
studio white	**6732-84-500**	2CKA006730A0039	1/10

[1] Battery included in delivery.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Surface painted.

	**ZLL-Power supply insert** • With electronic short-circuit protection. • With electronic overload protection. • For ZigBee Light Link control element 6735-xxx, 6736-xxx and 6737-xxx. • Without control cover. • Rated voltage: 230 V~, +10 % / -10 % • Secondary: 5 V-, +5 % / -5 %		
	6710 U-500	2CKA006710A0005	1

	**ZLL-Relay insert** • 3 wire connection (neutral conductor required). • For switching retrofit LED lamps (LEDi). • For switching incandescent lamps, 230 V tungsten halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are actuated via transformers. • Without control cover.		
	6711 U-500	2CKA006710A0006	1

	**ZLL-Dimmer insert** • Touch dimmer. • For wireless switching and dimming of electrical loads. • 3 wire connection (neutral conductor required). • Optimised for dimming of retrofit LED lamps (LEDi). • For incandescent lamps, 230V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers and dimmable halogen energy-saving lamps.		
	6715 U-500	2CKA006710A0007	1

Product	Article-No.	Order-No.	Pack/Qty
	**ZLL-Plug-in unit Switch** • Plug device for switching electric loads up to 1,380 W/VA. • Control of thermal positioners for heating control possible. • Not for electrical heating devices. • Connected load can be activated/deactivated via micro switch. • Send/receive frequency: 2.4 GHz.		
	6717-84-500	2CKA006710A0008	1

	ZigBee Light Link wall-mounted transmitter **1-channel** 1gang wall-mounted transmitter independent of mains power supply. For the wireless remote control of other ZigBee Light Link radio components. For saving and calling up 2 light scenes. For dimming a light scene. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery type CR2450 (included in scope of delivery) Battery service life: typically 3 years. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
anthracite	**6735/01-81**	2CKA006730A0079	1
aluminium silver [1]	**6735/01-83**	2CKA006730A0081	1
studio white	**6735/01-84**	2CKA006730A0082	1/10
grey metallic [1]	**6735/01-803**	2CKA006730A0117	1
studio white, matt [1]	**6735/01-884**	2CKA006730A0118	1
black matt [1]	**6735/01-885**	2CKA006730A0119	1

[1] Surface painted.

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WaveLINE control elements

Product	Article-No.	Order-No.	Pack/Qty
	ZigBee Light Link wall-mounted transmitter 2-channel 2gang wall-mounted transmitter independent of mains power supply. For the wireless remote control of other ZigBee Light Link radio components. For saving and calling up 4 light scenes. For dimming 2 light scenes. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery type CR2450 (included in scope of delivery) Battery service life: typically 3 years. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
anthracite	**6736/01-81**	2CKA006730A0083	1
aluminium silver [1])	**6736/01-83**	2CKA006730A0085	1
studio white	**6736/01-84**	2CKA006730A0086	1/10
grey metallic [1])	**6736/01-803**	2CKA006730A0121	1
studio white, matt [1])	**6736/01-884**	2CKA006730A0124	1
black matt [1])	**6736/01-885**	2CKA006730A0125	1

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**ZigBee Light Link wall-mounted transmitter 4-channel** 4gang wall-mounted transmitter independent of mains power supply. For the wireless remote control of other ZigBee Light Link radio components. For saving and calling up 8 light scenes. For dimming 4 light scenes. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery type CR2450 (included in scope of delivery) Battery service life: typically 3 years. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
anthracite	**6737/01-81**	2CKA006730A0087	1
aluminium silver [1])	**6737/01-83**	2CKA006730A0089	1
studio white	**6737/01-84**	2CKA006730A0090	1/10
grey metallic [1])	**6737/01-803**	2CKA006730A0127	1
studio white, matt [1])	**6737/01-884**	2CKA006730A0130	1
black matt [1])	**6737/01-885**	2CKA006730A0131	1

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	ZigBee Light Link control element 1gang For wireless switching and dimming of electrical loads. For ZigBee Light Link flush-mounted inserts 6710 U, 6711 U and 6715 U. In connection with the ZigBee Light Link flush-mounted inserts 6711 U and 6715 U the top rocker is used to switch or dim the non-ZLL lamps connected to the flush-mounted insert directly. In the case of 6736 and 6737, the other keys can be used for saving, calling and dimming lightscenes. In combination with the ZigBee LightLink-UP insert 6710 U for storing and calling up 2 light scenes or dimming a light scene. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. Push-button function: Switching/dimming/light scenes. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
anthracite	**6735-81**	2CKA006730A0067	1
aluminium silver [1])	**6735-83**	2CKA006730A0069	1
studio white	**6735-84**	2CKA006730A0070	1/10
grey metallic [1])	**6735-803**	2CKA006730A0099	1
studio white, matt [1])	**6735-884**	2CKA006730A0100	1
black matt [1])	**6735-885**	2CKA006730A0101	1

[1]) Surface painted.

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WaveLINE control elements

Product	Article-No.	Order-No.	Pack/Qty
	ZigBee Light Link control element 2gang For wireless switching and dimming of electrical loads. For ZigBee Light Link flush-mounted inserts 6710 U, 6711 U and 6715 U. In connection with the ZigBee Light Link flush-mounted inserts 6711 U and 6715 U the top rocker is used to switch or dim the non-ZLL lamps connected to the flush-mounted insert directly. In the case of 6736 and 6737, the other keys can be used for saving, calling and dimming lightscenes. In combination with the ZigBee LightLink-UP insert 6710 U for storing and calling up 4 light scenes or dimming 2 light scenes. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
anthracite	**6736-81**	2CKA006730A0071	1
aluminium silver [1])	**6736-83**	2CKA006730A0073	1
studio white	**6736-84**	2CKA006730A0074	1/10
grey metallic [1])	**6736-803**	2CKA006730A0105	1
studio white, matt [1])	**6736-884**	2CKA006730A0106	1
black matt [1])	**6736-885**	2CKA006730A0107	1

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**ZigBee Light Link control element 4gang** For wireless switching and dimming of electrical loads. For ZigBee Light Link flush-mounted inserts 6710 U, 6711 U and 6715 U. In connection with the ZigBee Light Link flush-mounted inserts 6711 U and 6715 U the top rocker is used to switch or dim the non-ZLL lamps connected to the flush-mounted insert directly. In the case of 6736 and 6737, the other keys can be used for saving, calling and dimming lightscenes. In combination with the ZigBee LightLink-UP insert 6710 U for storing and calling up 8 light scenes or dimming 4 light scenes. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
anthracite	**6737-81**	2CKA006730A0075	1
aluminium silver [1])	**6737-83**	2CKA006730A0077	1
studio white	**6737-84**	2CKA006730A0078	1/10
grey metallic [1])	**6737-803**	2CKA006730A0111	1
studio white, matt [1])	**6737-884**	2CKA006730A0112	1
black matt [1])	**6737-885**	2CKA006730A0113	1

[1]) Surface painted.

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Busch-Infoline®

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1] [2]** **1gang, with labelling field** With operating knob. For signal/cancel push-button 1520/1 UK. For monitoring unit 1511 U. For Busch-Leakage guard insert 1531 U. With labelling field 61 x 20 mm. Protection class (Device): IP 20 Dimensions: (L x W x D): 63.5 mm x 63.5 mm x 11.1 mm		
studio white	**1571 CN-84**	2CKA001582A0346	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Can also be used for Busch-axcent®, solo®, and carat®.

	**Cover plate [1] [2]** **2gang, with labelling field** With operating knob. For signal push-button insert 1520/1 UKZ. With labelling field 61 x 20 mm. With exchangeable inlays in read and green for the individual designation of the operating knob. Protection class (Device): IP 20 Dimensions: (L x W x D): 63.5 mm x 63.5 mm x 11.1 mm		
studio white	**1572 CN-84**	2CKA001582A0348	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Can also be used for Busch-axcent®, solo®, and carat®.

	**Cover plate [1] [2]** **with red and neutral light panel and labelling field** For Alarm Control Unit insert 1515 U-12. For Busch-Alarm signal insert 1563 U-12. For indication lamp insert 1564 U-1x. With labelling field 61 x 61 mm. Protection class (Device): IP 20 Dimensions: (L x W x D): 63.5 mm x 63.5 mm x 11.1 mm		
studio white	**1573 CN-84**	2CKA001582A0350	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Can also be used for Busch-axcent®, solo®, and carat®.

	Cover plate [1] [2] **6gang, illuminable, with labelling field** For signal panel insert 1566 U. With labelling field 61 x 61 mm. Protection class (Device): IP 20 Dimensions: (L x W x D): 63.5 mm x 63.5 mm x 11.1 mm		
studio white	**1575 CN-84**	2CKA001582A0353	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Can also be used for Busch-axcent®, solo®, and carat®.

	Cover plate [1] [2] **with labelling field** For power supply insert 1518 U. For relay insert 1539 U. For signal generator insert 1561 U-.... With labelling field 61 x 61 mm. Protection class (Device): IP 20 Dimensions: (L x W x D): 63.5 mm x 63.5 mm x 11.1 mm		
studio white	**1576 CN-84**	2CKA001582A0355	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Can also be used for Busch-axcent®, solo®, and carat®.

Accessories

Product	Article-No.	Order-No.	Pack/Qty
	**Mounting set Busch-axcent® flat [1] [2] [3]** For flat flush-mounted installation, stonework Suitable for Busch-axcent® frames without carrier. With plastering moulding tool and positioning device. With integrated RFID-chip for easy detection. With vertically adjustable rotary ring. With Torx/slotted screws. With variable basement depth. Mounting boxes are combinable directly. With flex knockouts for cables or pipes. The boxes need to be plastered. Hole size : 82 mm Protection class (Device): IP 20 Dimensions: (L x W x D): 82 mm		
	1gang		
	3048/10	2CKA001740A0061	1
	2gang		
	3048/20	2CKA001740A0062	1
	3gang		
	3048/30	2CKA001740A0063	1
	4gang		
	3048/40	2CKA001740A0064	1
	5gang		
	3048/50	2CKA001740A0065	1

[1] Carrier needs to remove from Busch-axcent® cover frame.
[2] RFID = Radio Frequency IDentification
[3] Not suitable for fixing claws.

	**Mounting set Busch-axcent® flat [1]** For flat flush-mounted installation, hollow wall Suitable for Busch-axcent® frames without carrier. For double planking. With positioning device and adapter rings. Suitable for drywalls and plasterboards for 9,5 mm, 10 mm and 12,5 mm. With Torx/slotted screws. Mounting boxes are combinable directly. With flex knockouts for cables or pipes. Fast installation via cable strap latches. A 74 mm diameter moulding cutter with countersink is needed. Hole size : 74 mm Protection class (Device): IP 20		
	1gang		
	3058/10	2CKA001740A0072	1
	2gang		
	3058/20	2CKA001740A0073	1
	3gang		
	3058/30	2CKA001740A0074	1
	4gang		
	3058/40	2CKA001740A0075	1
	5gang		
	3058/50	2CKA001740A0076	1

[1] Carrier needs to remove from Busch-axcent® cover frame.

Busch-axcent®
Accessories

Product	Article-No.	Order-No.	Pack/Qty
	**Mounting set Busch-axcent® flat [1])** For flat flush-mounted installation, concrete construction Suitable for Busch-axcent® frames without carrier. Suitable for prefabricated and in-situ concrete directly onto the formwork. Delivered with a lid with distance positioning device. Fixing exclusively and directly to formwork by nailing or hot gluing. With Torx/slotted screws. Mounting boxes are combinable directly. With flex knockouts for pipes. Protection class (Device): IP 20		
	1gang		
	3068/10	2CKA001740A0083	1
	2gang		
	3068/20	2CKA001740A0084	1
	3gang		
	3068/30	2CKA001740A0085	1
	4gang		
	3068/40	2CKA001740A0086	1
	5gang		
	3068/50	2CKA001740A0087	1

[1]) Carrier needs to remove from Busch-axcent® cover frame.

	**RFID-Detector [1])** To recover of RFID-chips. Power supply: 9V alkaline cell (included in delivery). Protection class (Device): IP 20		
	3049	2CKA001740A0070	1

[1]) RFID = Radio Frequency IDentification

	**Compensation rings for flush-mounted boxes** For additional compensation for too deep mounted flush-mounted boxes. Adjustment height: 2,6 mm Protection class (Device): IP 20		
	3057	2CKA001740A0081	10

	**Extension of claws [1])** For the installation of flush-mounted SCHUKO® socket outlets and also switches, push-buttons, etc. and deeply installed flush-mounted boxes. Protection class (Device): IP 20		
	2148	2CKA002148A0120	100

[1]) Not suitable for types 2000/3 US, 2000/6/2 US, 2000/6/6 US-101 and double socket outlets.

Product	Article-No.	Order-No.	Pack/Qty
	**Braille symbol** self-adhesive (transparent) for cover 2506-xxx Protection class (Device): IP 20		
	light		
	2144 LI	2CKA001714A0295	10/1000
	bell		
	2144 KI	2CKA001714A0296	10/1000
	key		
	2144 TR	2CKA001714A0297	10/1000

	**Braille symbol** **socket outlet** self-adhesive, transparent for SCHUKO® socket outlets with hinged lid 20 EUK-xxx Protection class (Device): IP 20		
	2144 ST	2CKA001714A0298	10/1000

	DIN A 4 labelling sheet [1]) **plastic foil** Suitable for all to be labeled Busch-Jaeger devices. For laser printer. The text of the foil is printed via the Busch-Jeager labeling service. Dimensions: (L x W x D): 297 mm		
translucent	**1799/02**	2CKA001799A0959	1
transparent	**1799/03**	2CKA001799A0960	1

[1]) 1 piece = 1 sheet.

	**RC suppressor** For protection against the damage or destruction of electronic devices due to overvoltages. For wiring network-interconnected inductivities (e.g.. relay, protection, fluorescent lamps, transformers, etc.). Eliminates functional disturbances on electronic devices, e.g. automatic circuit reclosure (clocking) of a movement detector. Dimensions: diameter 25 mm, length 35 mm, length of the connecting cable approx. 100 mm. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz		
	6899	2CKA006899A0231	10

Busch-axcent®
Cover frames



Cover frame [1])
1gang frame
Protection class (Device): IP 20
Dimensions: (L x W x D): 91 mm x 91 mm x 11 mm

Product	Article-No.	Order-No.	Pack/Qty
studio white	**1721-284**	2CKA001754A4331	10
black	**1721-281**	2CKA001754A4409	10
maison-beige	**1721-299-500**	2CKA001754A4481	10
entrée-grey	**1721-291-500**	2CKA001754A4471	10
château-black	**1721-295-500**	2CKA001754A4491	10
yellow	**1721-285**	2CKA001754A4334	10
green	**1721-286**	2CKA001754A4337	10
Red	**1721-287**	2CKA001754A4340	10
blue	**1721-288**	2CKA001754A4343	10

[1]) Flat mounting possible, a mounting set flat Art.No. 30x8/xx must be used as a flush-mounted box.



Cover frame [1])
2gang frame
For vertical or horizontal installation.
Protection class (Device): IP 20
Dimensions: (L x W x D): 162 mm x 91 mm x 11 mm

Product	Article-No.	Order-No.	Pack/Qty
studio white	**1722-284**	2CKA001754A4332	10
black	**1722-281**	2CKA001754A4410	10
maison-beige	**1722-299-500**	2CKA001754A4482	10
entrée-grey	**1722-291-500**	2CKA001754A4472	10
château-black	**1722-295-500**	2CKA001754A4492	10
yellow	**1722-285**	2CKA001754A4335	10
green	**1722-286**	2CKA001754A4338	10
Red	**1722-287**	2CKA001754A4341	10
blue	**1722-288**	2CKA001754A4344	10

[1]) Flat mounting possible, a mounting set flat Art.No. 30x8/xx must be used as a flush-mounted box.

Cover frame [1])
3gang frame
For vertical or horizontal installation.
Protection class (Device): IP 20
Dimensions: (L x W x D): 233 mm x 91 mm x 11 mm

Product	Article-No.	Order-No.	Pack/Qty
studio white	**1723-284**	2CKA001754A4333	10
black	**1723-281**	2CKA001754A4411	10
maison-beige	**1723-299-500**	2CKA001754A4483	10
entrée-grey	**1723-291-500**	2CKA001754A4473	10
château-black	**1723-295-500**	2CKA001754A4493	10
yellow	**1723-285**	2CKA001754A4336	10
green	**1723-286**	2CKA001754A4339	10
Red	**1723-287**	2CKA001754A4342	10
blue	**1723-288**	2CKA001754A4345	10

[1]) Flat mounting possible, a mounting set flat Art.No. 30x8/xx must be used as a flush-mounted box.

Cover frame [1])
4gang frame
For vertical or horizontal installation.
Protection class (Device): IP 20
Dimensions: (L x W x D): 304 mm x 91 mm x 11 mm

Product	Article-No.	Order-No.	Pack/Qty
studio white	**1724-284**	2CKA001754A4346	1
black	**1724-281**	2CKA001754A4412	1
maison-beige	**1724-299-500**	2CKA001754A4484	1
entrée-grey	**1724-291-500**	2CKA001754A4474	1
château-black	**1724-295-500**	2CKA001754A4494	1
yellow	**1724-285**	2CKA001754A4348	1
green	**1724-286**	2CKA001754A4350	1
Red	**1724-287**	2CKA001754A4352	1
blue	**1724-288**	2CKA001754A4354	1

[1]) Flat mounting possible, a mounting set flat Art.No. 30x8/xx must be used as a flush-mounted box.

Cover frame
5gang frame
For vertical or horizontal installation.
Protection class (Device): IP 20
Dimensions: (L x W x D): 375 mm x 91 mm x 11 mm

Product	Article-No.	Order-No.	Pack/Qty
studio white [1])	**1725-284**	2CKA001754A4347	1
black [1])	**1725-281**	2CKA001754A4413	1
maison-beige	**1725-299-500**	2CKA001754A4485	1
entrée-grey [1])	**1725-291-500**	2CKA001754A4475	1
château-black [1])	**1725-295-500**	2CKA001754A4495	1
yellow [1])	**1725-285**	2CKA001754A4349	1
green [1])	**1725-286**	2CKA001754A4351	1
Red [1])	**1725-287**	2CKA001754A4353	1
blue [1])	**1725-288**	2CKA001754A4355	1

[1]) Flat mounting possible, a mounting set flat Art.No. 30x8/xx must be used as a flush-mounted box.

Busch-axcent® flat
Cover frames

Product	Article-No.	Order-No.	Pack/Qty
	**Cover frame Busch-axcent® flat** **1gang frame** For flat flush mounting. Only suitable with Busch-axcent® flat mounting set. Without carrier. Protection class (Device): IP 20 Dimensions: (L x W x D): 91 mm x 91 mm x 11 mm		
black	**1721-281/11**	2CKA001753A4126	10
studio white	**1721-284/11**	2CKA001753A4121	10
	**Cover frame Busch-axcent® flat** **2gang frame** For flat flush mounting. Only suitable with Busch-axcent® flat mounting set. For vertical or horizontal installation. Protection class (Device): IP 20 Dimensions: (L x W x D): 162 mm x 91 mm x 11 mm		
black	**1722-281/11**	2CKA001753A4127	10
studio white	**1722-284/11**	2CKA001753A4122	10
	**Cover frame Busch-axcent® flat** **3gang frame** For flat flush mounting. Only suitable with Busch-axcent® flat mounting set. For vertical or horizontal installation. Protection class (Device): IP 20 Dimensions: (L x W x D): 233 mm x 91 mm x 11 mm		
black	**1723-281/11**	2CKA001753A4128	10
studio white	**1723-284/11**	2CKA001753A4123	10
	**Cover frame Busch-axcent® flat** **4gang frame** For flat flush mounting. Only suitable with Busch-axcent® flat mounting set. For vertical or horizontal installation. Protection class (Device): IP 20 Dimensions: (L x W x D): 304 mm x 91 mm x 11 mm		
black	**1724-281/11**	2CKA001753A4129	1
studio white	**1724-284/11**	2CKA001753A4124	1
	**Cover frame Busch-axcent® flat** **5gang frame** For flat flush mounting. Only suitable with Busch-axcent® flat mounting set. For vertical or horizontal installation. Protection class (Device): IP 20 Dimensions: (L x W x D): 375 mm x 91 mm x 11 mm		
black	**1725-281/11**	2CKA001753A4130	1
studio white	**1725-284/11**	2CKA001753A4125	1

Busch-axcent® pur
Cover frames

Product	Article-No.	Order-No.	Pack/Qty
	**Cover frame** **1gang frame** Protection class (Device): IP 20 Dimensions: (L x W x D): 91 mm x 91 mm x 11 mm		
slate grey [1] [2] [3] [4]	**1721-290**	2CKA001754A4805	1
concrete grey [1] [2] [3] [4]	**1721-298**	2CKA001754A4795	1
paper blue [1] [2] [3]	**1721-248**	2CKA001754A4785	1
paper brown [1] [2] [3]	**1721-243**	2CKA001754A4790	1
glass coral	**1721-227**	2CKA001754A4765	1
glass avocado	**1721-226**	2CKA001754A4770	1
glass purple	**1721-223**	2CKA001754A4775	1
glass oyster	**1721-229**	2CKA001754A4780	1
glass ocean	**1721-228**	2CKA001754A4755	1
glass sun	**1721-225**	2CKA001754A4760	1
platinum [5] [6]	**1721-270-500**	2CKA001754A4688	1
black matt [5] [6]	**1721-275-500**	2CKA001754A4708	1
titanium [5] [6]	**1721-276-500**	2CKA001754A4698	1
white glass	**1721-280**	2CKA001754A4437	1
glass black	**1721-245**	2CKA001754A4800	1

[1] Genuine material with an individual surface.
[2] Genuine material with an open-pore surface.
[3] Each cover frame is unique in structure and color nuance.
[4] Genuine material with reduced resistance against mechanical stress.
[5] Real metal surface.
[6] Flat mounting possible, a mounting set flat Art.No. 30x8/xx must be used as a flush-mounted box.

Busch-axcent® pur

Cover frames

Product	Article-No.	Order-No.	Pack/Qty
	**Cover frame** **2gang frame** For vertical or horizontal installation. Protection class (Device): IP 20 Dimensions: (L x W x D): 162 mm x 91 mm x 11 mm		
slate grey [1] [2] [3] [4]	**1722-290**	2CKA001754A4806	1
concrete grey [1] [2] [3] [4]	**1722-298**	2CKA001754A4796	1
paper blue [1] [2] [3]	**1722-248**	2CKA001754A4786	1
paper brown [1] [2] [3]	**1722-243**	2CKA001754A4791	1
glass coral	**1722-227**	2CKA001754A4766	1
glass avocado	**1722-226**	2CKA001754A4771	1
glass purple	**1722-223**	2CKA001754A4776	1
glass oyster	**1722-229**	2CKA001754A4781	1
glass ocean	**1722-228**	2CKA001754A4756	1
glass sun	**1722-225**	2CKA001754A4761	1
platinum [5] [6]	**1722-270-500**	2CKA001754A4689	1
black matt [5] [6]	**1722-275-500**	2CKA001754A4709	1
titanium [5] [6]	**1722-276-500**	2CKA001754A4699	1
white glass	**1722-280**	2CKA001754A4438	1
glass black	**1722-245**	2CKA001754A4801	1

[1] Genuine material with an individual surface.
[2] Genuine material with an open-pore surface.
[3] Each cover frame is unique in structure and color nuance.
[4] Genuine material with reduced resistance against mechanical stress.
[5] Real metal surface.
[6] Flat mounting possible, a mounting set flat Art.No. 30x8/xx must be used as a flush-mounted box.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover frame** **3gang frame** For vertical or horizontal installation. Protection class (Device): IP 20 Dimensions: (L x W x D): 233 mm x 91 mm x 11 mm		
slate grey [1] [2] [3] [4]	**1723-290**	2CKA001754A4807	1
concrete grey [1] [2] [3] [4]	**1723-298**	2CKA001754A4797	1
paper blue [1] [2] [3]	**1723-248**	2CKA001754A4787	1
paper brown [1] [2] [3]	**1723-243**	2CKA001754A4792	1
glass coral	**1723-227**	2CKA001754A4767	1
glass avocado	**1723-226**	2CKA001754A4772	1
glass purple	**1723-223**	2CKA001754A4777	1
glass oyster	**1723-229**	2CKA001754A4782	1
glass ocean	**1723-228**	2CKA001754A4757	1
glass sun	**1723-225**	2CKA001754A4762	1
platinum [5] [6]	**1723-270-500**	2CKA001754A4690	1
black matt [5] [6]	**1723-275-500**	2CKA001754A4710	1
titanium [5] [6]	**1723-276-500**	2CKA001754A4700	1
white glass	**1723-280**	2CKA001754A4439	1
glass black	**1723-245**	2CKA001754A4802	1

[1] Genuine material with an individual surface.
[2] Genuine material with an open-pore surface.
[3] Each cover frame is unique in structure and color nuance.
[4] Genuine material with reduced resistance against mechanical stress.
[5] Real metal surface.
[6] Flat mounting possible, a mounting set flat Art.No. 30x8/xx must be used as a flush-mounted box.

Busch-axcent® pur

Cover frames

Product	Article-No.	Order-No.	Pack/Qty
	**Cover frame** **4gang frame** For vertical or horizontal installation. Protection class (Device): IP 20 Dimensions: (L x W x D): 304 mm x 91 mm x 11 mm		
slate grey [1] [2] [3] [4]	**1724-290**	2CKA001754A4808	1
concrete grey [1] [2] [3] [4]	**1724-298**	2CKA001754A4798	1
paper blue [1] [2] [3]	**1724-248**	2CKA001754A4788	1
paper brown [1] [2] [3]	**1724-243**	2CKA001754A4793	1
glass coral	**1724-227**	2CKA001754A4768	1
glass avocado	**1724-226**	2CKA001754A4773	1
glass purple	**1724-223**	2CKA001754A4778	1
glass oyster	**1724-229**	2CKA001754A4783	1
glass ocean	**1724-228**	2CKA001754A4758	1
glass sun	**1724-225**	2CKA001754A4763	1
platinum [5] [6]	**1724-270-500**	2CKA001754A4691	1
black matt [5] [6]	**1724-275-500**	2CKA001754A4711	1
titanium [5] [6]	**1724-276-500**	2CKA001754A4701	1
white glass	**1724-280**	2CKA001754A4440	1
glass black	**1724-245**	2CKA001754A4803	1

[1] Genuine material with an individual surface.
[2] Genuine material with an open-pore surface.
[3] Each cover frame is unique in structure and color nuance.
[4] Genuine material with reduced resistance against mechanical stress.
[5] Real metal surface.
[6] Flat mounting possible, a mounting set flat Art.No. 30x8/xx must be used as a flush-mounted box.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover frame** **5gang frame** For vertical or horizontal installation. Protection class (Device): IP 20 Dimensions: (L x W x D): 375 mm x 91 mm x 11 mm		
slate grey [1] [2] [3] [4]	**1725-290**	2CKA001754A4809	1
concrete grey [1] [2] [3] [4]	**1725-298**	2CKA001754A4799	1
paper blue [1] [2] [3]	**1725-248**	2CKA001754A4789	1
paper brown [1] [2] [3]	**1725-243**	2CKA001754A4794	1
glass coral	**1725-227**	2CKA001754A4769	1
glass avocado	**1725-226**	2CKA001754A4774	1
glass purple	**1725-223**	2CKA001754A4779	1
glass oyster	**1725-229**	2CKA001754A4784	1
glass ocean	**1725-228**	2CKA001754A4759	1
glass sun	**1725-225**	2CKA001754A4764	1
platinum [5] [6]	**1725-270-500**	2CKA001754A4692	1
black matt [5]	**1725-275-500**	2CKA001754A4712	1
titanium [5] [6]	**1725-276-500**	2CKA001754A4702	1
white glass	**1725-280**	2CKA001754A4441	1
glass black	**1725-245**	2CKA001754A4804	1

[1] Genuine material with an individual surface.
[2] Genuine material with an open-pore surface.
[3] Each cover frame is unique in structure and color nuance.
[4] Genuine material with reduced resistance against mechanical stress.
[5] Real metal surface.
[6] Flat mounting possible, a mounting set flat Art.No. 30x8/xx must be used as a flush-mounted box.

future® linear
Embrace the unknown.

Timeless design combined with functionality, make for the perfect wiring accessory. Clear straight lines and harmonious colours which will last forever. Light switch with a soft and velvety touch fascinates the senses. Perfectly matches a modern style of living. Endless delight.



01 anthracite
02 ivory white
03 aluminiumsilver
04 studio white
05 black matt*
06 white matt*

Materials
Cover: thermoplastic cover (PC), impact-proof and fracture-resistant, UV-resistant, free of PVC and halogen.

* Softtouch: stimulating colours with pleasant haptics and a hard-wearing surface.

future® linear

Selected functions.

01 

02 

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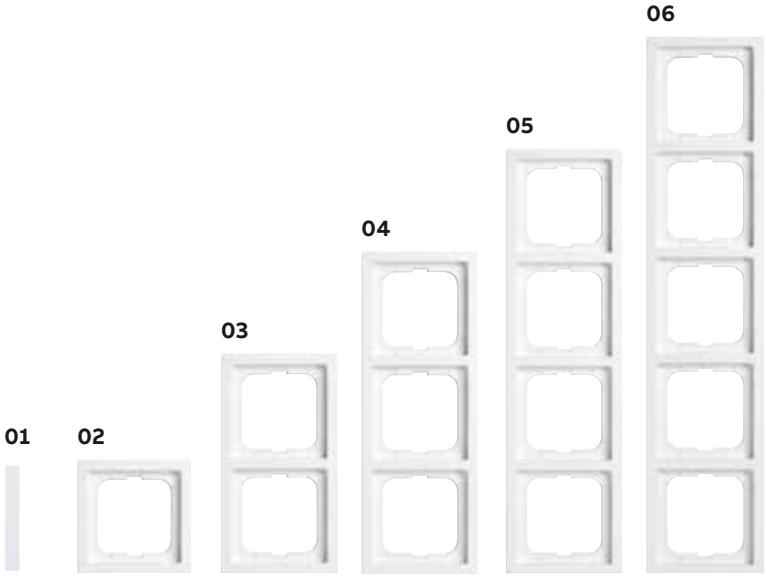
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01 Rocker switch 1gang
02 Rocker switch 2gang
03 Busch Universal Rotary Dimmer
04 Touch dimmer
05 Busch-Comfort switch
06 Busch-steplight®
07 Busch-Protector® SCHUKO® socket outlet with overvoltage protection
08 SCHUKO® USB socket outlet, 2x USB A
09 Socket outlet with earthing pin
10 Switched socket outlet BS standard
11 Blind switch with rotary knob
12 Busch-Blind control switch with semi-cylindrical lock
13 Busch-Blind comfort switch
14 Comfort timer
15 Room thermostat with display
16 Busch-Infoline® alarm insert
17 Busch-Radio DAB+
18 Antenna socket for radio/TV/satellite
19 Universal data connection box
20 Stereo loudspeaker connecting box
21 KNX sensor, for more KNX products see part 12 of the catalogue - Intelligent Building Solutions



1 to 5gang cover frame
for horizontal and vertical installation.
01 Side view, 11 mm x 80 mm
02 80 mm x 80 mm
03 80 mm x 151 mm
04 80 mm x 222 mm
05 80 mm x 293 mm
06 80 mm x 364 mm



Cover frames for both horizontal and vertical installation in 1-4gang, are also avaiable with labelling field.
Colour: studio white

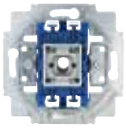
For more information about light switch ranges visit ABB global web sites.

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Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	1gang 2way		
	2000/6 US-500	2CKA001012A2198	10/100
	2gang 1way		
	2000/5 US-500	2CKA001012A1150	10/100
	DP, 1gang 2way [2]		
	2000/6/2 US	2CKA001012A0954	10
	1gang		
	2000/7 US-500	2CKA001012A2199	10/100
	DP, 1gang 1way		
	2000/2 US-500	2CKA001012A2196	10/100
	SP, 1gang 1way switch		
	2000/1 US-500	2CKA001012A2059	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] With screw-type terminals. Non-illuminable.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	Switch-off and two-way circuit 16 A		
	2400/6 US-500	2CKA001012A2232	10/100
	2gang switch 16 A		
	2400/5 US-500	2CKA001012A2234	10
	1gang intermediate 16 A		
	2400/7 US-500	2CKA001012A2236	10

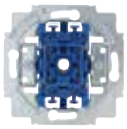
[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** **2gang 2way** With screwless terminals. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	2000/6/6US-101-500	2CKA001011A0928	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** **Changeover/changeover circuit 16 A** With screwless terminals. Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2400/6/6US-101-500	2CKA001022A0663	10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1] [2]** **DP, 1gang 1way** For switching high loads. Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2000/2 US-101-500	2CKA001012A2193	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Also for switching SCHUKO® socket outlets.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1] [2]** **3-pole, 1gang 1way switch** Rated voltage: 400 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2000/3 US	2CKA001011A0816	10

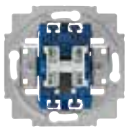
[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] With screw-type terminals. Non-illuminable.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism [1]** With neon lamp. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	1gang 2way [2]		
	2000/6 USGL-500	2CKA001012A2194	10/100
	2gang 1way		
	2000/5 USGL	2CKA001012A1135	10

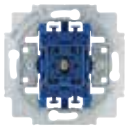
[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Replacement lamps 8360, 8362, and 8363 and LED inserts.

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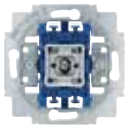
Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker Switch Mechanism, control [1])** **2gang switch with N-clamp 16 A** with LED, Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2400/5 USK-500	2CKA001012A2238	10

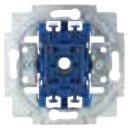
[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Rocker Switch Mechanism, control [1]) [2]) [3])** With neon lamp. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	1gang 2way with N-terminal		
	2000/6 USK-500	2CKA001022A0659	10/100
	DP, 1gang 1way		
	2000/2 UK	2CKA001022A0656	10

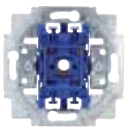
[1]) With 1 mA neon lamp.
[2]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[3]) Illuminable by using lamps 8360, 8362, 8363, 8365, 8366, and 8367 and LED inserts.

	**Rocker Switch Mechanism, control [1]) [2]) [3])** **Switch-off and two-way circuit with N-clamp 16 A** With neon lamp. Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 20 IEC 60669-1		
	2400/6 USK-500	2CKA001022A0661	10

[1]) With 1 mA neon lamp.
[2]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[3]) Illuminable by using lamps 8360, 8362, 8363, 8365, 8366, and 8367 and LED inserts.

	**Push-switch mechanism [1])** **SP, with normally open contact (operating current)** With N terminal. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 US-500	2CKA001413A0574	10/100

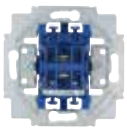
[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Push-switch mechanism [1])** **SP, with normally open contact (operating current)** With 2 independent signalling contacts. Rated voltage: 250 V~ Inputs: 1 Outputs: 1 Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 US-201	2CKA001413A0483	10

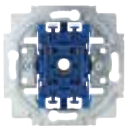
[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Push-switch mechanism [1]) [2]) [3])** **SP, with normally open contact (operating current)** With illumination. With N terminal. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 USGL-500	2CKA001413A1106	10/100

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2]) Replacement lamps 8360, 8362, and 8363 and LED inserts.
[3]) For relay and touch dimmer applications.

	**Push-switch mechanism [1])** With one input terminal and 2 actuating covers. Rated voltage: 250 V~ Inputs: 1 Outputs: 2x Normally open contact Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 US-205-500	2CKA001413A1105	10/100

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Push-switch mechanism [1])** **SP, 1gang 2way** Can be wired for normally open contacts (stand-by current) or normally closed contacts (operating current). With N terminal. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
	2020 US-206-500	2CKA001413A1104	10/100

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

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Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	Rocker For flush-mounted switch 1g1w, 1g2w, intermediate, push switch. Protection class (Device): IP 20		
anthracite	**1786-81-500**	2CKA001751A3079	10/100
ivory white	**1786-82-500**	2CKA001751A3083	10/100
aluminium silver [1])	**1786-83-500**	2CKA001751A3075	10/100
studio white	**1786-84-500**	2CKA001751A3074	10/100
studio white, matt [1])	**1786-884-500**	2CKA001751A3089	10/100
black matt [1])	**1786-885-500**	2CKA001751A3094	10/100
red RAL 3020	**1786-12-82**	2CKA001751A3145	10/100

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	Rocker **Series switch** For flush-mounted switch 2g 1w, 2g push switch. Protection class (Device): IP 20		
anthracite	**1785-81**	2CKA001751A2930	10
ivory white	**1785-82**	2CKA001751A2744	10/100
aluminium silver [1])	**1785-83**	2CKA001751A2942	10/100
aluminium silver [1])	**1785-83-500**	2CKA001751A3092	10/100
studio white	**1785-84-500**	2CKA001751A3076	10/100
studio white, matt [1])	**1785-884**	2CKA001751A3024	10/100
black matt [1])	**1785-885**	2CKA001751A3038	10/100

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker** As a cover for flush-mounted control 2gang switch. Protection class (Device): IP 20		
anthracite	**1785 K-81-500**	2CKA001751A3122	10
ivory white	**1785 K-82-500**	2CKA001751A3124	10
aluminium silver [1])	**1785 K-83-500**	2CKA001751A3126	10
studio white	**1785 K-84-500**	2CKA001751A3128	10
studio white, matt [1])	**1785 K-884-500**	2CKA001751A3135	10
black matt [1])	**1785 K-885-500**	2CKA001751A3137	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker** **with small red spherical cap** As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way. Protection class (Device): IP 20		
anthracite	**1789-81**	2CKA001751A2928	10
ivory white	**1789-82**	2CKA001751A2813	10
aluminium silver [1])	**1789-83**	2CKA001751A2945	10/100
studio white	**1789-84-500**	2CKA001751A3091	10/100
studio white, matt [1])	**1789-884**	2CKA001751A3033	10
black matt [1])	**1789-885**	2CKA001751A3047	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker** **with small transparent lens** As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way. Protection class (Device): IP 20		
anthracite	**1789 N-81**	2CKA001751A3147	10/100
ivory white	**1789 N-82**	2CKA001751A3148	10/100
aluminium silver [1])	**1789 N-83**	2CKA001751A3149	10/100
studio white	**1789 N-84-500**	2CKA001751A3151	10/100
studio white, matt [1])	**1789 N-884**	2CKA001751A3153	10/100
black matt [1])	**1789 N-885**	2CKA001751A3154	10/100

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** **with small transparent lens** With >Plug< icon. As cover for flush-mounted switch 1g1w DP and 3pole with neon lens and marking "I O" As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way. Protection class (Device): IP 20		
anthracite	**1789 ST-81**	2CKA001751A3157	10/100
ivory white	**1789 ST-82**	2CKA001751A3158	10/100
aluminium silver [1])	**1789 ST-83**	2CKA001751A3159	10/100
studio white	**1789 ST-84-500**	2CKA001751A3161	10/100
studio white, matt [1])	**1789 ST-884**	2CKA001751A3163	10/100
black matt [1])	**1789 ST-885**	2CKA001751A3164	10/100

[1]) Surface painted.

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Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** With >Light< icon. For flush-mounted switch 1g1w, 1g2w, intermediate, push switch. Protection class (Device): IP 20		
anthracite	**2520 LI-81**	2CKA001751A3186	10/100
ivory white	**2520 LI-82**	2CKA001751A3187	10/100
aluminium silver [1])	**2520 LI-83**	2CKA001751A3188	10/100
studio white	**2520 LI-84-500**	2CKA001751A3190	10/100
studio white, matt [1])	**2520 LI-884**	2CKA001751A3192	10/100
black matt [1])	**2520 LI-885**	2CKA001751A3193	10/100

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** With >Key< icon. For flush-mounted push switch. Protection class (Device): IP 20		
anthracite	**2520 TR-81**	2CKA001751A3196	10/100
ivory white	**2520 TR-82**	2CKA001751A3197	10/100
aluminium silver [1])	**2520 TR-83**	2CKA001751A3198	10/100
studio white	**2520 TR-84**	2CKA001751A3199	10/100
studio white, matt [1])	**2520 TR-884**	2CKA001751A3201	10/100
black matt [1])	**2520 TR-885**	2CKA001751A3202	10/100

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** With >Bell< icon. For flush-mounted push switch. Protection class (Device): IP 20		
anthracite	**2520 KI-81**	2CKA001751A3176	10/100
ivory white	**2520 KI-82**	2CKA001751A3177	10/100
aluminium silver [1])	**2520 KI-83**	2CKA001751A3178	10/100
studio white	**2520 KI-84-500**	2CKA001751A3180	10/100
studio white, matt [1])	**2520 KI-884**	2CKA001751A3182	10/100
black matt [1])	**2520 KI-885**	2CKA001751A3183	10/100

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking with small transparent lens** With >Light< icon. As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way. Protection class (Device): IP 20		
anthracite	**1789 LI-81**	2CKA001751A2931	10
ivory white	**1789 LI-82**	2CKA001751A2745	10
aluminium silver [1])	**1789 LI-83**	2CKA001751A2951	10
studio white	**1789 LI-84-500**	2CKA001751A3084	10/100
studio white, matt [1])	**1789 LI-884**	2CKA001751A3031	10
black matt [1])	**1789 LI-885**	2CKA001751A3045	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking with small transparent lens** With >Key< icon. For flush-mounted push switch. Protection class (Device): IP 20		
anthracite	**1789 TR-81**	2CKA001751A2933	10
ivory white	**1789 TR-82**	2CKA001751A2747	10
aluminium silver [1])	**1789 TR-83**	2CKA001751A2953	10
studio white	**1789 TR-84**	2CKA001751A2755	10
studio white, matt [1])	**1789 TR-884**	2CKA001751A3032	10
black matt [1])	**1789 TR-885**	2CKA001751A3046	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking with small transparent lens** With >Bell< icon. For flush-mounted push switch. Protection class (Device): IP 20		
anthracite	**1789 KI-81**	2CKA001751A2932	10
ivory white	**1789 KI-82**	2CKA001751A2746	10
aluminium silver [1])	**1789 KI-83**	2CKA001751A2952	10
studio white	**1789 KI-84**	2CKA001751A2754	10
studio white, matt [1])	**1789 KI-884**	2CKA001751A3030	10
black matt [1])	**1789 KI-885**	2CKA001751A3044	10

[1]) Surface painted.

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Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker [1] [2]** **with labelling field** With >Bell< icon. With pilot lamp for uniform illumination of the labelling field. For flush-mounted push switch. Size of labelling field: 59.7 x 11.7 mm. Protection class (Device): IP 20		
anthracite	**1764 NLI/KI-81**	2CKA001731A3998	10/100
ivory white	**1764 NLI/KI-82**	2CKA001731A3999	10/100
aluminium silver [3]	**1764 NLI/KI-83**	2CKA001731A4000	10/100
studio white	**1764 NLI/KI-84-500**	2CKA001731A4002	10/100
studio white, matt [3]	**1764 NLI/KI-884**	2CKA001731A4004	10/100
black matt [3]	**1764 NLI/KI-885**	2CKA001731A4005	10/100

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Illumination using neon lamp 8353 or incandescent lamp 8344-1 and LED inserts.
[3] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker [1] [2]** **with labelling field** With pilot lamp for uniform illumination of the labelling field. For flush-mounted switch 1g1w, 1g2w, intermediate, push switch. Size of labelling field: 59.7 x 11.7 mm. Protection class (Device): IP 20		
anthracite	**1764 NLI-81**	2CKA001731A1552	10
ivory white	**1764 NLI-82**	2CKA001731A1876	10
aluminium silver [3]	**1764 NLI-83**	2CKA001731A1948	10
studio white	**1764 NLI-84**	2CKA001731A1877	10/100
studio white, matt [3]	**1764 NLI-884**	2CKA001731A1985	10
black matt [3]	**1764 NLI-885**	2CKA001731A1982	10
red RAL 3020	**1764 NLI-12-82-101**	2CKA001731A4011	10
Green, RAL 6032	**1764 NLI-13-82**	2CKA001731A4007	10/100

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Illumination using neon lamp 8353 or incandescent lamp 8344-1 and LED inserts.
[3] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** **with small red spherical cap** With imprint >0< and >I<. As cover for 2-pole or 3-pole flush-mounted on-off switch and 2-pole control on-off switch. Protection class (Device): IP 20		
anthracite	**1788-81**	2CKA001751A2927	10
ivory white	**1788-82**	2CKA001751A2742	10
aluminium silver [1]	**1788-83**	2CKA001751A2954	10
studio white	**1788-84**	2CKA001751A2750	10/100
studio white, matt [1]	**1788-884**	2CKA001751A3028	10
black matt [1]	**1788-885**	2CKA001751A3042	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** **with small red spherical cap** With >Heating< imprint. As cover for flush-mounted 1gang 1way, 1gang 2way switch, intermediate switch, push-button and control switch 1gang 2way. As cover for 2-pole or 3-pole flush-mounted on-off switch and 2-pole control on-off switch. Protection class (Device): IP 20		
anthracite	**1789 H-81**	2CKA001751A2929	10
ivory white	**1789 H-82**	2CKA001751A2743	10
aluminium silver [1]	**1789 H-83**	2CKA001751A2955	10
studio white	**1789 H-84**	2CKA001751A2751	10
studio white, matt [1]	**1789 H-884**	2CKA001751A3029	10
black matt [1]	**1789 H-885**	2CKA001751A3043	10

[1] Surface painted.

	**Card switch 10 A [1]** **SP, with normally open contact (operating current)** Illuminable. With N terminal. Rated voltage: 250 V~ Rated current: 10 A Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20IEC60669-1, British Standard EN 60669-1		
	2025 U	2CKA001012A1713	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
delivery form:	Adapter plate APBS to be ordered separate.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** For flush-mounted switch 1g1w, 1g2w, intermediate, push switch. DO NOT DISTURB Protection class (Device): IP 20		
anthracite	**1786/11-81**	2CKA001751A3207	10
ivory white	**1786/11-82**	2CKA001751A2997	10
aluminium silver [1]	**1786/11-83**	2CKA001751A3001	10
studio white	**1786/11-84**	2CKA001751A2998	10
studio white, matt [1]	**1786/11-884**	2CKA001751A3026	10
black matt [1]	**1786/11-885**	2CKA001751A3040	10

[1] Surface painted.

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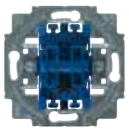
Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** For flush-mounted switch 2g 1w, 2g push switch. DO NOT DISTURB MAKE UP ROOM Protection class (Device): IP 20		
anthracite	**1785/11-81**	2CKA001751A3205	10
ivory white	**1785/11-82**	2CKA001751A2991	10
aluminium silver [1])	**1785/11-83**	2CKA001751A2995	10
studio white	**1785/11-84**	2CKA001751A2992	10
studio white, matt [1])	**1785/11-884**	2CKA001751A3023	10
black matt [1])	**1785/11-885**	2CKA001751A3037	10

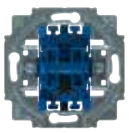
[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Switch rocker with marking** As cover for flush-mounted rocker control switch insert, DND/MUR. DO NOT DISTURB MAKE UP ROOM Protection class (Device): IP 20		
anthracite	**1785/11 K-81**	2CKA001751A3212	10
ivory white	**1785/11 K-82**	2CKA001751A3214	10
aluminium silver [1])	**1785/11 K-83**	2CKA001751A3210	10
studio white	**1785/11 K-84**	2CKA001751A3209	10
studio white, matt [1])	**1785/11 K-884**	2CKA001751A3211	10
black matt [1])	**1785/11 K-885**	2CKA001751A3213	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker switch insert DND/MUR [1])** with LED, Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1		
	2028 UK	2CKA001012A2240	10/100

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker switch insert DND/MUR [1])** with LED, Rated voltage: 24 V Rated current: 6 A Protection class (Device): IP 20 IEC 60669-1		
	2028/12 UK	2CKA001012A2241	10/100

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Bell push-switch DND/MUR 230 V [1])** with LED, Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC 60669-1		
anthracite	**2029 UC-81**	2CKA001751A3167	1
ivory	**2029 UC-82**	2CKA001751A3168	1
aluminium silver [2])	**2029 UC-83**	2CKA001751A3169	1
studio white	**2029 UC-84**	2CKA001751A3170	1
studio white, matt [2])	**2029 UC-884**	2CKA001751A3172	1
black matt [2])	**2029 UC-885**	2CKA001751A3173	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Bell push-switch DND/MUR 24 V [1])** with LED, Rated voltage: 24 V Rated current: 6 A Protection class (Device): IP 20 IEC 60669-1		
anthracite	**2029/12 UC-81**		1
ivory	**2029/12 UC-82**	2CKA001751A3236	1
aluminium silver [2])	**2029/12 UC-83**	2CKA001751A3232	1
studio white	**2029/12 UC-84**	2CKA001751A3231	1
studio white, matt [2])	**2029/12 UC-884**	2CKA001751A3233	1
black matt [2])	**2029/12 UC-885**	2CKA001751A3235	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For card switch. For insert 2025 U. Suitable for cards sized 54 x 86 mm. The inner part of the cover plate is made of light-conducting plastic, so that the card slot is illuminated. Protection class (Device): IP 20		
anthracite	**1792-81**	2CKA001710A3639	10
ivory white	**1792-82**	2CKA001710A3640	10
aluminium silver [1])	**1792-83**	2CKA001710A3670	10
studio white	**1720-84**	2CKA001731A1916	10
studio white, matt [1])	**1792-884**	2CKA001710A3928	10
black matt [1])	**1792-885**	2CKA001710A3905	10

[1]) Surface painted.

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Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Pull switch [1]** **SP, with normally open contact (operating current)** With 2-metre pull cord, red handle, and red neon indicator. Rated voltage: 250 V~ Rated current: 10 A		
	2020/01 US-101	2CKA001413A1112	10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Pull switch [1]** **SP, break contact** With 2-metre pull cord, red handle, and red neon indicator. Rated voltage: 250 V~ Rated current: 10 A		
	2020/10 US-101	2CKA001413A1111	10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1]** **for pull switch 2610/6 UC-xx, 2610/6 UJ-xx** With screw-type terminal Protection class (Device): IP 20		
anthracite	**1796-81**	2CKA001753A0308	10
ivory white	**1796-82**	2CKA001753A0309	10
aluminium silver [2]	**1796-83**	2CKA001753A0310	10
studio white	**1796-84**	2CKA001753A0311	10
studio white, matt [2]	**1796-884**	2CKA001753A0313	10
black matt [2]	**1796-885**	2CKA001753A0314	10

[1] Exchanging the available cover/cover plate.
[2] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	Rocker **open for red pull switch neon indicator** For pull switch 2020/xx US. Protection class (Device): IP 20		
anthracite	**1720-81**	2CKA001731A1914	10
ivory white	**1720-82**	2CKA001731A1915	10
aluminium silver [1]	**1720-83**	2CKA001731A1949	10
studio white	**1720-84**	2CKA001731A1916	10
studio white, matt [1]	**1720-884**	2CKA001731A1979	10
black matt [1]	**1720-885**	2CKA001731A1981	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Three-step rotary switch [1] [2]** **SP, with zero position** With zero position. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
	2710 U	2CKA001101A0918	1/10

[1] Install only in conjunction with wall boxes ø 60 mm.
[2] Not to be mounted in SM box 1701-xxx, 1702-xxx, 1703-xxx.

Product	Article-No.	Order-No.	Pack/Qty
	**Three-step rotary switch [1] [2]** **SP, without zero position** Without zero position. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
	2710/1 U	2CKA001101A0919	1/10

[1] Install only in conjunction with wall boxes ø 60 mm.
[2] Not to be mounted in SM box 1701-xxx, 1702-xxx, 1703-xxx.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **with rotary control, with marking** As cover for flush mounted three-step rotary switch. With zero position. For insert 2710 U. Protection class (Device): IP 20		
anthracite	**2542 DR/01-81**	2CKA001710A3644	10
ivory white	**2542 DR/01-82**	2CKA001710A3645	10
aluminium silver [1]	**2542 DR/01-83**	2CKA001710A3671	10
studio white	**2542 DR/01-84**	2CKA001710A3646	10
studio white, matt [1]	**2542 DR/01-884**	2CKA001710A3890	10
black matt [1]	**2542 DR/01-885**	2CKA001710A3913	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **with rotary control, with marking** As cover for flush mounted three-step rotary switch. Without zero position. For insert 2710/1 U. Protection class (Device): IP 20		
anthracite	**2542 DR/02-81**	2CKA001710A3649	10
ivory white	**2542 DR/02-82**	2CKA001710A3650	10
aluminium silver [1]	**2542 DR/02-83**	2CKA001710A3672	10
studio white	**2542 DR/02-84**	2CKA001710A3651	10
studio white, matt [1]	**2542 DR/02-884**	2CKA001710A3891	10
black matt [1]	**2542 DR/02-885**	2CKA001710A3914	10

[1] Surface painted.

future® linear
Dimmers

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Product	Article-No.	Order-No.	Pack/Qty
	**Comprising Friends of Hue smart switch insert** Comprising 2gang rocker 6736 FoH-8xx for Friends of Hue smart switch. Consisting of 1gang future® linear cover frames. Comprising fixing plate and intermediate ring. Smarter light switches for wireless remote control of Philips Hue lamps For switching and dimming of Philips Hue lamps. For saving, calling up and dimming of a maximum of 2 individual light scenes. Without battery and maintenance-free due to >Energy harvesting<. Can be mounted freely in the room with the enclosed adhesive tape and fixing plate. Requires Philips Hue Bridge (2nd generation square construction type) and Philips Hue app (Version 3.2 or higher). Maximum safety of function by means of Zigbee-Mesh technology.		
	6716 UJ-84-500	2CKA006710A0011	1
	6716 UJ-885-500	2CKA006710A0018	1
	**Friends of Hue smart switch insert** **Wall-mounted transmitter, 2 channel** For Friends of Hue smart switch Rocker 6736 FoH-8xx. Smarter light switches for wireless remote control of Philips Hue lamps. For switching and dimming of Philips Hue lamps. For saving, calling up and dimming of a maximum of 2 individual light scenes. Without battery and maintenance-free due to >Energy harvesting<. Maximum safety of function by means of Zigbee-Mesh technology. Requires Philips Hue Bridge (2nd generation; square construction type) and Philips Hue app (Version 3.2 or higher). Combinable with the Busch-Jaeger switch ranges carat®, Busch-dynasty®, pure stainless steel, solo®, Busch-axcent® and future® linear. Can be mounted freely in the room with the enclosed adhesive tape and fixing plate. Including fixing plate for mounting on smooth walls or on switch boxes.		
	6716 U-500	2CKA006710A0014	1
	Rocker For Friends of Hue smart switch insert 6716 U-500. Combinable with the Busch-Jaeger switch ranges carat®, Busch-dynasty®, pure stainless steel, solo®, Busch-axcent® and future® linear.		
anthracite	**6736 FoH-81**	2CKA006730A0133	1
ivory white	**6736 FoH-82**	2CKA006730A0134	1
aluminium silver [1])	**6736 FoH-83**	2CKA006730A0135	1
studio white	**6736 FoH-84**	2CKA006730A0136	1
studio white, matt [1])	**6736 FoH-884**	2CKA006730A0140	1
black matt [1])	**6736 FoH-885**	2CKA006730A0141	1

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-rotary dimmer [1]) [2]) [3]) [4]) [5]) [6]) [7]) [8]) [9])** **Flush-mounted, LED, 2-100 W** With rotary control, two-way switch and soft-catch. 2-wire connection (neutral conductor not required) Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. Via mode switch adjustable between leading edge control and trailing edge control. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. With adjustable minimum brightness. Without cover plate. Rated voltage: 230 V~, + 10% / - 10% Rated frequency: 50 Hz/60 Hz Nominal power: 2 - 100 W/VA (retrofit LED loads). Nominal power: 10 - 250 W/VA (non-LED loads). Protection class (Device): IP 20 Temperature range (Device): 0 °C to 35 °CIEC 60669-2-1, British Standard EN 60669-2-1 		
	6523 U-102-500	2CKA006512A0335	1/10

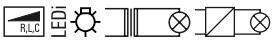
[1]) Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2]) In the case of conventional transformers, take ~20% transformer loss into account.
[3]) In case of electronic transformers, 5 % transformer losses.
[4]) Also applicable for 1gang 2way installations.
[5]) Provided with terminal for net disconnection devices.
[6]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[7]) Recommendation: Please use loads and types of one producer.
[8]) The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[9]) A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

future® linear
Dimmers

Product	Article-No.	Order-No.	Pack/Qty



Busch-rotary dimmer [1] [2] [3] [4] [5] [6] [7] [8] [9]
UP, LED, 2-400 W
Very small installation depth: < 20 mm
Without claws.
With rotary control, two-way switch and soft-catch.
2-wire connection (neutral conductor not required)
Optimised for dimming of retrofit LED lamps (LEDi).
For dimmable Retrofit-LEDs (LEDi).
For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers.
For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps.
Mix operaton of LEDi with conventional loads possible.
With manually adjustable operating mode: trailing / leading edge control.
With adjustable minimum/maximum brightness.
Low-noise level by MOSFET transistors.
With electronic short-circuit protection.
With electronic overload protection.
Without cover plate.
Rated voltage: 230 V~, + 10% / - 10%
Rated frequency: 50 Hz/60 Hz
Nominal power: 2 - 100 W/VA (leading edge control)
Nominal power: 2 - 400 W/VA (trailing edge control)
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °CIEC 60669-2-1, British Standard EN 60669-2-1



	6523 UR-103-500	2CKA006512A0345	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] In case of electronic transformers, 5 % transformer losses.
[4] Also applicable for 1gang 2way installations.
[5] Provided with terminal for net disconnection devices.
[6] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[7] Recommendation: Please use loads and types of one producer.
[8] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[9] A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

Product	Article-No.	Order-No.	Pack/Qty



Busch-rotary dimmer [1] [2] [3] [4]
flush mounted, R, 60-600 W
With rotary control, 2way On-Off switching and soft-catch.
Leading Edge control.
For incandescent lamps and 230 V tungsten halogen lamps.
With adjustable minimum brightness.
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 60 - 600 W
IEC 60669-2-1, British Standard EN 60669-2-1

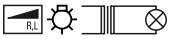


	2250 U-500	2CKA006515A0848	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] Also applicable for 1gang 2way installations.
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Provided with terminal for net disconnection devices.



Busch-rotary dimmer [1] [2] [3] [4] [5]
flush mounted, RL, 20-500 W
With rotary control, 2way On-Off switching and soft-catch.
Leading Edge control.
For incandescent lamps, 230 V tungsten halogen lamps and low-volt halogen lamps with conventional transformer.
With adjustable minimum brightness.
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 20 - 500 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1



	2247 U-500	2CKA006512A0302	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] Provided with terminal for net disconnection devices.
[4] Also applicable for 1gang 2way installations.
[5] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

future® linear
Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-rotary dimmer [1] [2] [3] [4] [5] [6]** **UP, RL, 200-700 W** With rotary control, 2way On-Off switching and soft-catch. Leading Edge control. For incandescent lamps, 230 V tungsten halogen lamps and low-volt halogen lamps with conventional transformer. Short-circuit-proof, overload-protected. With adjustable minimum brightness. Without cover plate. Without claws. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Rated power: 200 - 700 W/VA IEC 60669-2-1, British Standard EN 60669-2-1 		
	6520 U-500	2CKA006520A0227	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] Provided with terminal for net disconnection devices.
[4] Also applicable for 1gang 2way installations.
[5] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[6] Should be mounted in a seperate wallbox.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-rotary dimmer [1] [2] [3] [4] [5] [6]** **flush mounted, RC, 40-420 W** With rotary control, soft-catch and with trailing edge control. For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with electronic transformers. Low-noise, short-circuit-proof, overload-protected. Without cover plate. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Rated power: 40 - 420 W/VA IEC 60669-2-1, British Standard EN 60669-2-1 		
	6513 U-102-500	2CKA006513A0586	1/10

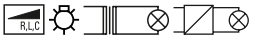
[1] Not suitable with conventional transformers.
[2] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[3] In case of electronic transformers, 5 % transformer losses.
[4] Provided with terminal for net disconnection devices.
[5] Also applicable for 1gang 2way installations.
[6] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

future® linear
Dimmers

Product	Article-No.	Order-No.	Pack/Qty



Busch-rotary dimmer [1] [2] [3] [4] [5]
flush mounted, RLC, 60-420 W
with soft-catch
With intelligence for universal operation. For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers. Short-circuit-proof, overload-protected. Capacity expansion via output-side, parallel connectable load line with a power module 6594 U up to 735 W/VA possible.
Operation via rotary-type remote control 6592 U possible,
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Rated power: 60 - 420 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1

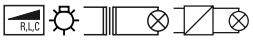


	6591 U-101-500	2CKA006513A0588	1/10

[1] Illuminable with neon lamp 3855. Neon lamp included in delivery with cover plate.
[2] In case of electronic transformers, 5 % transformer losses.
[3] In the case of conventional transformers, take ~20% transformer loss into account.
[4] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[5] Cannot be combined with a 2way switch.



Busch-rotary dimmer, extension [1] [2]
flush mounted
for connection to 6591 U-101,
To be used with Busch-Dimmer®, MDRC 6583.
with soft-catch
A maximum of 5 multi-way extensions can be connected to a 6591U-101,
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz



	6592 U-500	2CKA006513A0590	1

[1] Control elements 2115-xxx and 6540-xxx.
[2] Required for illuminating the N-connection control element.



Busch-rotary dimmer [1] [2] [3] [4]
flush mounted, 1-10V
With rotary control.
For controlling ballast units for fluorescent lamps with control output 1-10 V DC, control current max. 50 mA DC.
For LED control via control gears
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Rated power: 700 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1



	2112 U-101-500	2CKA006599A2873	1/10

[1] Non-illuminable.
[2] Use cover plates 2115 J-.../2115-.../6540-... .
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Making-current limiters have to be provided in case of too high making currents.

Product	Article-No.	Order-No.	Pack/Qty



Busch-rotary dimmer [1]
Flush-mounted, DALI, tunable white
For DALI broadcast service (via central telegram).
For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface.
With rotary control and ON/OFF push operation.
Fool proved.
For changing the colour temperature of >tunable white< lamps, which meet DALI Standard IEC 62386-209 (Device Type 8).
Colour temperature can then be set between 2,700 K - 6,500 K.
Brightness power-on level and backround brightness level adjustable, buffered.
With integrated LED illumination for orientation.
Color of orientation light adjustable (18 presets and OFF).
Up to 5 potentiometers are connectable in parallel.
Max. current consumption: 15 mA.
Not suitable for combining with other DALI sensors or central units of other manufacturers.
For the generation of the DALI voltage a power supply according to IEC 62386 is required; e.g. from Tridonic, Philips, Helvar or BJE article no. 2116/11 U.
Max. DALI-cable length: 300 m (1,5 - 2,5 mm²).
Without cover plate.
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °C

	2116 U	2CKA006599A3025	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

future® linear
Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**2116/11 U**	2CKA006599A3026	1

Busch-rotary dimmer [1])
Flush-mounted, DALI, with internal power supply, tunable white
For DALI broadcast service (via central telegram).
With integrated DALI power adaptor.
For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface.
With rotary control and ON/OFF push operation.
For changing the colour temperature of >tunable white< lamps, which meet DALI Standard IEC 62386-209 (Device Type 8).
Colour temperature can then be set between 2,700 K - 6,500 K.
With electronic short-circuit protection.
With electronic overload protection.
Brightness power-on level and backround brightness level adjustable, buffered.
With integrated LED illumination for orientation.
Color of orientation light adjustable (18 presets and OFF).
Up to 5 potentiometers are connectable in parallel.
Up to 3 potentiometers are connectable in parallel in active mode.
Not suitable for combining with other DALI sensors or central units of other manufacturers.
DALI-voltage: 15,5 V=
Rated current: max. 75 mA
Power consumption: < 2,5 W
Number of DALI-units:
37 in case of one active power-potentiometer
in case of three active power-potentiometer in parallel connection: 111
Active mode: the potentiometer is supporting the necessary control circuit for other DALI-devices.
Passive mode: the potentiometer is suitable as additional operation point.
Max. DALI-cable length: 300 m (1,5 - 2,5 mm²).
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °C

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**2117 U-500**	2CKA006599A2987	1

Busch-rotary dimmer [1])
flush mounted, DALI
For DALI broadcast service (via central telegram).
For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface.
With rotary control and ON/OFF push operation.
Fool proved.
Brightness power-on level and backround brightness level adjustable, buffered.
With integrated LED illumination for orientation.
Color of orientation light adjustable (18 presets and OFF).
Up to 5 potentiometers are connectable in parallel.
Max. current consumption: 15 mA.
Not suitable for combining with other DALI sensors or central units of other manufacturers.
An additional DALI power supply is needed, e.g. by Tridonic, Philips, Helvar or 2117/11 U.
Max. DALI-cable length: 300 m (1,5 - 2,5 mm²).
Without cover plate.
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °C

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**2117/11 U-500**	2CKA006599A2988	1

Busch-rotary dimmer [1])
flush mounted, DALI, with internal power supply
For DALI broadcast service (via central telegram).
With integrated DALI power adaptor.
For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface.
With rotary control and ON/OFF push operation.
With electronic short-circuit protection.
With electronic overload protection.
Brightness power-on level and backround brightness level adjustable, buffered.
With integrated LED illumination for orientation.
Color of orientation light adjustable (18 presets and OFF).
Up to 5 potentiometers are connectable in parallel.
Up to 3 potentiometers are connectable in parallel in active mode.
Not suitable for combining with other DALI sensors or central units of other manufacturers.
DALI-voltage: 15,5 V=
Rated current: max. 75 mA
Power consumption: < 2,5 W
Number of DALI-units:
37 in case of one active power-potentiometer
in case of three active power-potentiometer in parallel connection: 111
Active mode: the potentiometer is supporting the necessary control circuit for other DALI-devices.
Passive mode: the potentiometer is suitable as additional operation point.
Max. DALI-cable length: 300 m (1,5 - 2,5 mm²).
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °C

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

future® linear
Dimmers

Product	Article-No.	Order-No.	Pack/Qty



Busch-touch dimmer [1] [2]
flush mounted, RL, 25-500 W
With light-level memory and leading edge control.
For incandescent lamps, 230 V tungsten halogen lamps and low-volt halogen lamps with conventional transformer.
Compatible with control covers 6543-xxx-10x.
Operation also possible via conventional push buttons (2020 US, 2021/6 UK).
Parallel operation of several transformers and/or incandescents lamps possible.
Without control cover.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Rated power: 25 - 500 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1

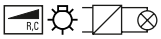


	6560 U-101-500	2CKA006560A1207	1/10

[1] In the case of conventional transformers, take ~20% transformer loss into account.
[2] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)



Busch touch-dimmer range [1] [2] [3] [4]
flush mounted, RC, 45-315 W
For switching and dimming 2 independent devices.
With trailing edge control.
2gang 1way
For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with electronic transformers.
Compatible with control covers 6545-xxx.
Without cover, without cover plate.
Outputs: 2 independent dimmer channels.
Rated power: 40-315 W/VA per channel.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 HzIEC 60669-2-1, British Standard EN 60669-2-1



	6565 U-500	2CKA006565A0057	1/10

[1] Not suitable with conventional transformers.
[2] In case of electronic transformers, 5 % transformer losses.
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Does not provide an extension input.

Product	Article-No.	Order-No.	Pack/Qty



Busch-touch dimmer [1] [2] [3] [4]
flush mounted, RLC, 60-420 W
With light-level memory and intelligence for universal operation.
Selectable Soft-ON/OFF function and memory function.
Capacity expansion via output-side, parallel connectable load line with a power module 6594 U up to 735 W/VA possible.
For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers.
Short-circuit-proof, overload-protected.
With touch control.
Operation also possible via conventional push buttons (2020 US, 2021/6 UK).
Without control cover.
For control cover with control lamp 6543-xxx-10x.
For Busch-Remote control IR control cover 6066-xxx-10x.
For comfort timer control element 6455-101-500.
For Busch-Watchdog 180 flush-mounted Sensor Standard 6810-21x-101.
For Busch-Watchdog 180 flush-mounted sensor Comfort II 6800-xxx-104 and 6800-xxx-104M.
For Busch-Watchdog Presence tech 6813-xxx-101 und 6813/11-xxx.
Combinable with Busch-Watchdog extension insert 6805 U.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 60 - 420 W

Rated power: 60 - 420 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1



	6593 U-500	2CKA006590A0171	1/10

[1] In the case of conventional transformers, take ~20% transformer loss into account.
[2] In case of electronic transformers, 5 % transformer losses.
[3] In conjunction with 6800-xxx-104 (M) a Soft Off can be adjusted.
[4] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)



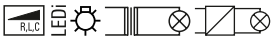
Busch-Dimmer®, capacity booster [1]
flush mounted, RLC, 200-315 W
The control is effected by a Busch-Universal master dimmer 6593 U or Busch-Universal rotary dimmer 6591U-101
For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers.
Can only be installed in conjunction with a cover plate 2114-xxx and 6541-xxx.
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Rated power: 200 - 315 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1



	6594 U-500	2CKA006590A0172	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

future® linear
Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-rotary dimmer [1] [2] [3]** **LED, complete set** Consisting of Busch LED rotary dimmer 6523 U-102. Consisting of the cover plate with rotary knob 6540-84-102. Cover frame design future® linear 1721-184K. Protection class (Device): IP 20 Temperature range (Device): 0 °C to 35 °CIEC 60669-2-1, British Standard EN 60669-2-1 		
studio white	**6523 UJ-84-102**	2CKA006512A0350	1

[1] Recommendation: Please use loads and types of one producer.
[2] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[3] A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

	**Cover plate [1]** **with rotary knob, with indication lamp** Elevated knob. With transparent luminous ring. For Busch-Dimmer®. For inserts 2112 U-101/2247 U/2250 U/6513 U-102/6517 U-10x/ 6519 U/6520 U/6523 U(R)(10x) /6591 U-10x and 6592 U.		
anthracite	**6540-81-102**	2CKA006599A2950	10
ivory white	**6540-82-102**	2CKA006599A2951	10/100
aluminium silver [2]	**6540-83-102**	2CKA006599A2952	10/100
studio white	**6540-84-102-500**	2CKA006599A3009	10/100
studio white, matt [2]	**6540-884-102**	2CKA006599A2961	10/100
black matt [2]	**6540-885-102**	2CKA006599A2966	10/100

[1] Replacement neon lamp, Art. No. 3855.
[2] Surface painted.

	**Control element [1] [2] [3]** **with neon lamp** Can be combined with LED dimmer 6524 U, and 6526 U, Busch-Universal touch-type controller 6550 U-10x, Busch-Memory touch dimmer 6560 U-101, Busch-Universal-Dimmer® 6593 U, Busch-Universal relay insert 6401 U-10x, Busch-Universal 2gang insert 6402 U.		
anthracite	**6543-81-101**	2CKA006599A2881	1/10
ivory white	**6543-82-101**	2CKA006599A2831	1/10
aluminium silver [4]	**6543-83-101**	2CKA006599A2887	1/10
studio white	**6543-84-101-500**	2CKA006599A3010	1/10
studio white, matt [4]	**6543-884-101**	2CKA006599A2963	1/10
black matt [4]	**6543-885-101**	2CKA006599A2968	1/10

[1] Compatible with previous type 6543-xxx.
[2] Touch-type Controller 6550 U-xxx non-illuminable.
[3] Replacement neon lamp 3857.
[4] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **for cooling element** For Busch-Universal master dimmer power module 6594 U. For KNX room temperature controller object 6109/08.		
anthracite	**6541-81**	2CKA006599A2882	10
ivory white	**6541-82**	2CKA006599A2832	10
aluminium silver [1]	**6541-83**	2CKA006599A2885	10
studio white	**6541-84**	2CKA006599A2835	10
studio white, matt [1]	**6541-884**	2CKA006599A2962	10
black matt [1]	**6541-885**	2CKA006599A2967	10

[1] Surface painted.

future® linear
Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**LED dimmer insert flex, 1gang [1] [2] [3] [4] [5] [6] FM, LED, 3-240 VA** 2-wire connection (neutral conductor not required).Neutral conductor optionally connectable (recommended for the connection of low loads < 10 W/VA). Touch dimmer for switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. With manually adjustable operating mode: trailing / leading edge control. With adjustable minimum brightness. With light-level memory and minimum brightness memory. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. Without control cover. For control element flex, 1gang, 64711. For control element flex, 2gang, 64721. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Rated power: 3-240 VA (LEDi). Rated voltage: 230 V~, +10 % / -10 %. Rated frequency: 50 Hz. Inputs: 1. Outputs: 1x dimming channel. Suitable for: 230 V LEDi, typical (leading edge control). Rated power: 3 - 100 VA. Suitable for: 230 V LEDi, typical (trailing edge control). Rated power: 3 - 240 W. Suitable for: 230 V incandescent lamps, 230 V halogen lamps and low-voltage halogen lamps with conventional transformers or Busch Electronic Transformer. Rated power: 10 - 240 VA.Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm. Mounting depth: 25 mmIEC 60669-2-1, British Standard EN 60669-2-1 		
	64851 U-500	2CKA006500A0013	1

[1] In the case of conventional transformers, take ~20% transformer loss into account.
[2] In case of electronic transformers, 5 % transformer losses.
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Recommendation: Please use loads and types of one producer.
[5] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[6] A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

	**Control element, 1 gang flex** Tapping control element, 1gang. Compatible with all free@home flex inserts. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64711-500	2CKA006400A0099	1

Product	Article-No.	Order-No.	Pack/Qty
	**Control element, 1 gang, flex wireless** Tapping control element, 1gang. For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62711-WL-500	2CKA006200A0281	1
	**Flex control element, 2 gang flex** Tapping control element, 2gang For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64721-500	2CKA006400A0101	1
	**Control element, 2 gang, flex wireless** Tapping control element, 2gang For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@ home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62721-WL-500	2CKA006200A0283	1

	**Rocker** **1gang, with “Dimmer” icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
anthracite	SRD-1-81	2CKA006220A0149	1
ivory white	SRD-1-82	2CKA006220A0520	1
aluminium silver	SRD-1-83	2CKA006220A0150	
studio white	SRD-1-84	2CKA006220A0151	1
studiowhite matt	SRD-1-884	2CKA006220A0605	1
black matt	SRD-1-885	2CKA006220A0622	1

future® linear

Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker** **2gang left, with “Dimmer” icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
anthracite	SRD-2-L-81	2CKA006220A0164	1
ivory white	SRD-2-L-82	2CKA006220A0525	1
aluminium silver	SRD-2-L-83	2CKA006220A0165	1
studio white	SRD-2-L-84	2CKA006220A0166	1
studiowhite matt	SRD-2-L-884	2CKA006220A0610	1
black matt	SRD-2-L-885	2CKA006220A0627	1
	**Rocker** **2gang right, with “Scene” icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
anthracite	SRS-2-R-81	2CKA006220A0173	1
ivory white	SRS-2-R-82	2CKA006220A0528	1
aluminium silver	SRS-2-R-83	2CKA006220A0174	1
studio white	SRS-2-R-84	2CKA006220A0175	1
studiowhite matt	SRS-2-R-884	2CKA006220A0613	1
black matt	SRS-2-R-885	2CKA006220A0630	1

Product	Article-No.	Order-No.	Pack/Qty
	**Proximity switch** 3 wire connection (neutral conductor required). Relay insert with proximity sensor. For contactless ON/OFF switching of electric loads, e.g. lights. For switching incandescent lamps, 230 V tungsten halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are actuated via transformers. Switches when detecting an approach at < approx. 5 cm. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V incandescent lamps, 230 V halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are operated via transformers. Rated current: 10 AX Rated power: 2300 W/VA Temperature range (Device): -25 °C to 55 °CBritish Standard EN 60669-2-1 		
	6406 U	2CKA006400A0034	1
	Cover plate **Proximity switch** For proximity switch 6406 U.		
anthracite	**6476-81**	2CKA006470A0007	1/10
ivory white	**6476-82**	2CKA006470A0003	10
aluminium silver [1])	**6476-83**	2CKA006470A0008	10
studio white	**6476-84**	2CKA006470A0004	10
studio white, matt [1])	**6476-884**	2CKA006470A0010	10
black matt [1])	**6476-885**	2CKA006470A0011	10

[1]) Surface painted.

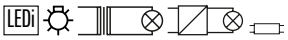
future® linear

Movement detectors

Product	Article-No.	Order-No.	Pack/Qty



Relay insert flex, 1gang [1])
3 wire connection (neutral conductor required).
For switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK).
Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Comfort switch flex control element 64765-... .
For Busch-Watchdog 180 flex sensors 6476x-... .
For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with extension insert, 64891 U.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz. Inputs: 1
Outputs: 1x Normally open contact, potential-bound
Suitable for: 230 V- LEDi, typical. Rated power: 300 VA
Suitable for: 230 V incandescent lamps/230 V halogen lamps. Rated power: 2300 W
Suitable for: Low voltage halogen lamps that are operated via transformers.
Rated power: 2300 VA
Temperature range (Device): -25 °C to 55 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm
Mounting depth: 25 mm

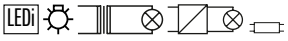


	64811 U-500	2CKA006800A3042	1/10

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)



Relay insert flex, 2gang [1])
3 wire connection (neutral conductor required).
For switching lighting systems.
For switching two independent load circuits.
For controlling light and ventilation systems.
Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units.
Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Without control cover.
For control element flex, 1gang, wireless, 62711-WL.
For control element flex, 2gang, wireless, 62721-WL.
For Busch-Comfort switch flex control element 64765-... .
For Busch-Watchdog 180 flex sensors 6476x-... .
For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL.
Combinable with extension insert, 64891 U.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Inputs: 2
Outputs: 2x Normally open contact, potential-bound
Suitable for: 230 V- LEDi, typical. Rated power: 300 VA
Suitable for: 230 V incandescent lamps/230 V halogen lamps
Rated power: 1840 W
Suitable for: Low voltage halogen lamps that are operated via transformers.
Rated power: 1150 VA
Temperature range (Device): -25 °C to 55 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm
Mounting depth: 25 mm



	64821 U-500	2CKA006800A3045	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty



e-contact insert flex, 1gang [1]) [2])
2-wire connection (neutral conductor not required)
Neutral conductor optionally connectable (recommended for the connection of low loads < 10 W/VA).
For switching lighting systems.
Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units.
Operation also possible via conventional push buttons (2020 US, 2021/6 UK).
Without control cover.
For control element flex, 1gang, wireless, 62711-WL.
For control element flex, 2gang, wireless, 62721-WL.
For Busch-Watchdog 180 flex sensors 6476x-... .
For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL.
Combinable with extension insert, 64891 U.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Inputs: 1
Outputs: 1x Normally open contact, potential-bound
Suitable for: 230 V- LEDi, typical.
Rated power: 3 - 240 VA
Suitable for: 230 V incandescent lamps/230 V halogen lamps
Rated power: 10 - 240 W
Suitable for: Low voltage halogen lamps that are operated via transformers.
Rated power: 3 - 240 VA
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm
Mounting depth: 25 mm



	64814 U-500	2CKA006800A3048	1

[1]) Use only dimmable high-voltage LEDs.
[2]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

future® linear

Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**LED dimmer insert flex, 1gang [1] [2] [3] [4] [5] [6] FM, LED, 3-240 VA** 2-wire connection (neutral conductor not required).Neutral conductor optionally connectable (recommended for the connection of low loads < 10 W/VA). Touch dimmer for switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. With manually adjustable operating mode: trailing / leading edge control. With adjustable minimum brightness. With light-level memory and minimum brightness memory. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. Without control cover. For control element flex, 1gang, 64711. For control element flex, 2gang, 64721. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Rated power: 3-240 VA (LEDi). Rated voltage: 230 V~, +10 % / -10 %. Rated frequency: 50 Hz. Inputs: 1. Outputs: 1x dimming channel. Suitable for: 230 V LEDi, typical (leading edge control). Rated power: 3 - 100 VA. Suitable for: 230 V LEDi, typical (trailing edge control). Rated power: 3 - 240 W. Suitable for: 230 V incandescent lamps, 230 V halogen lamps and low-voltage halogen lamps with conventional transformers or Busch Electronic Transformer. Rated power: 10 - 240 VA.Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm. Mounting depth: 25 mmIEC 60669-2-1, British Standard EN 60669-2-1 		
	64851 U-500	2CKA006500A0013	1

[1] In the case of conventional transformers, take ~20% transformer loss into account.
[2] In case of electronic transformers, 5 % transformer losses.
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Recommendation: Please use loads and types of one producer.
[5] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[6] A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

Product	Article-No.	Order-No.	Pack/Qty
	**Extension insert flex [1]** 3 wire connection (neutral conductor required). For the extension of the Busch-Comfort switch or presence detector installations. For group control of flex inserts via extension unit communication. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with all flex inserts. Rated voltage: 230 V~, +10 % / -10 %. Rated frequency: 50 Hz. Control/Signal outputs: 1, electronic output, potential-bound. Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm. Mounting depth: 25 mm		
	64891 U-500	2CKA006800A3051	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	Comfort switch flex sensor Movement detector push-button switch combination. For switching lighting systems that depend on brightness and movement. Push switch function possible at all times. Extension of the detection range by means of master/slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. Adjustable operating mode: automatic mode, automatic (motion-controlled) switch-on and switch-off. Adjustable operating mode: semiautomatic, manual switch-on, automatic (timer and movement-controlled) switch-off. Adjustable operating mode: automatic mode, automatic switch-on, manual switch-off. With continuous light/continuous Off function. Adjusting elements on rear side. Surveillance density: 9 sectors with 28 switching segments. Switch-off delay: 1 to 10 min., adjustable. Compatible with all free@home flexTronics inserts. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Please order the respective flush-mounted insert separately. The range specifications refer only to an ambient temperature of 21°C.		
	64765-81-500	2CKA006800A2883	
	64765-82-500	2CKA006800A2885	
	64765-84-500	2CKA006800A2889	
	64765-884-500	2CKA006800A2893	
	64765-885-500	2CKA006800A2895	

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flex, basic sensor [1] [2] with select-lens** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Compatible with all free@home flex inserts. Adjusting elements on rear side. Extension of the detection range by means of master/slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. With detection display in test mode. Surveillance density: 14 sectors with 56 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 22 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Detection range: frontal: 12 m, lateral: 12 m, Mounting height: 1.1 m Detection angle: 180°. Brightness limit value: 5 Lux - 500 Lux Up to daytime operation. Mounting height: 0.8 m - 1.2 m. Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 35 mm		
anthracite	**64761-81-500**	2CKA006800A2921	1
ivory white	**64761-82-500**	2CKA006800A2923	1
studio white	**64761-84-500**	2CKA006800A2927	1
studio white, matt [3]	**64761-884-500**	2CKA006800A2931	1
black matt [3]	**64761-885-500**	2CKA006800A2933	1

[1] Please order the respective flush-mounted insert separately.
[2] The range specifications refer only to an ambient temperature of 21°C.
[3] Surface painted.

future® linear

Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flex, comfort sensor [1] [2] with select-lens** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Push switch function possible at all times. In combination with dimmer insert flex: dimming function of lighting and selectable light value storage. With enabling of pre-warning of switch-off for stairwell operation. Compatible with all free@home flex inserts. Adjusting elements on rear side. Extension of the detection range by means of master/ slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. With continuous light/continuous Off function. With detection display in test mode. Surveillance density: 14 sectors with 56 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 22 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Detection range: frontal: 12 m, lateral: 12 m, Mounting height: 1.1 m Detection angle: 180 ° Brightness limit value: 5 Lux - 500 Lux Up to daytime operation Mounting height: 0.8 m - 1.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 35 mm		
anthracite	**64762-81-500**	2CKA006800A2958	1
ivory white	**64762-82-500**	2CKA006800A2960	1
studio white	**64762-84-500**	2CKA006800A2964	1
studio white matt [3]	**64762-884-500**	2CKA006800A2968	1
black matt [3]	**64762-885-500**	2CKA006800A2970	1

[1] Please order the respective flush-mounted insert separately.
[2] The range specifications refer only to an ambient temperature of 21°C.
[3] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flex, comfort sensor [1] [2] with multi-lens** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Push switch function possible at all times. For detection down to the floor. For detection in stairwells. With 4 detection levels. In combination with dimmer insert flex: dimming function of lighting and selectable light value storage. With enabling of pre-warning of switch-off for stairwell operation. Compatible with all free@home flex inserts. Adjusting elements on rear side. Multi-lens: suitable also for mounting heights of 2.20 m. Extension of the detection range by means of master/ slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. With continuous light/continuous Off function. With detection display in test mode. Surveillance density: 54 sectors with 224 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 31 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Detection range: frontal: 8 m, lateral: 7 m, Mounting height: 1.1 m Detection range 2: frontal: 8 m, lateral: 8 m, Mounting height: 2.2 m Detection angle: 180 ° Brightness limit value: 5 Lux - 500 Lux Up to daytime operation Mounting height: 0.8 m - 1.2 m alternative: 2.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 45 mm		
anthracite	**64764-81-500**	2CKA006800A2995	1
ivory white	**64764-82-500**	2CKA006800A2997	1
studio white	**64764-84-500**	2CKA006800A3001	1
studio white matt [3]	**64764-884-500**	2CKA006800A3005	1
black matt [3]	**64764-885-500**	2CKA006800A3007	1

[1] Please order the respective flush-mounted insert separately.
[2] The range specifications refer only to an ambient temperature of 21°C.
[3] Surface painted.

future® linear

Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Comfort switch flex sensor** Ready-to-install movement detector push-button switch combination (set packaging). Consisting of relay insert flex, 1gang, 64811 U. Consisting of future® linear cover frames, 1gang 1721-184K. The range specifications refer only to an ambient temperature of 21°C. Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)		
	64765 UJ-84-500	2CKA006800A2914	
	**Busch-Watchdog 180 flex [1] [2])** **Complete set with Basic sensor multi-lens and relay insert** Ready-to-install movement detector for flush-mounted installation (set packaged). Consisting of Busch-Watchdog 180 flex, basic sensor. Consisting of relay insert flex, 1gang, 64811 U. Consisting of future® linear cover frames, 1gang 1721-184K. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 1 Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V- LEDi, typical. Rated power: 300 VA Suitable for: 230 V incandescent lamps/230 V halogen lamps Rated power: 2300 W Suitable for: Low voltage halogen lamps that are operated via transformers. Rated power: 2300 VA Detection range: frontal: 12 m, lateral: 12 m, Mounting height: 1.1 m Detection angle: 180 ° Brightness limit value: 5 Lux - 500 Lux Up to daytime operation Mounting height: 0.8 m - 1.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 80 mm x 80 mm x 48 mm Mounting depth: 25 mm		
studio white	**64761 UJ-84-500**	2CKA006800A2951	1

[1] The range specifications refer only to an ambient temperature of 21°C.
[2] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flex [1] [2])** **Complete set with Comfort sensor select lens and relay insert** Ready-to-install movement detector for flush-mounted installation (set packaged). Consisting of Busch-Watchdog 180 flex comfort sensor with select lens. Consisting of relay insert flex, 1gang, 64811 U. Consisting of future® linear cover frames, 1gang 1721-184K. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 1 Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V- LEDi, typical. Rated power: 300 VA Suitable for: 230 V incandescent lamps/230 V halogen lamps Rated power: 2300 W Suitable for: Low voltage halogen lamps that are operated via transformers. Rated power: 2300 VA Detection range: frontal: 12 m, lateral: 12 m, Mounting height: 1.1 m Detection angle: 180 ° Brightness limit value: 5 Lux - 500 Lux Up to daytime operation Mounting height: 0.8 m - 1.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 80 mm x 80 mm x 48 mm Mounting depth: 25 mm		
studio white	**64762 UJ-84-500**	2CKA006800A2988	1

[1] The range specifications refer only to an ambient temperature of 21°C.
[2] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

future® linear

Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flex [1] [2]** **Complete set with Comfort sensor multi-lens and relay insert** Ready-to-install movement detector for flush-mounted installation (set packaged). Consisting of Busch-Watchdog 180 flex comfort sensor with multi-lens. Consisting of relay insert flex, 1gang, 64811 U. Consisting of future® linear cover frames, 1gang 1721-184K. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 1 Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V- LEDi, typical. Rated power: 300 VA Suitable for: 230 V incandescent lamps/230 V halogen lamps Rated power: 2300 W Suitable for: Low voltage halogen lamps that are operated via transformers. Rated power: 2300 VA Detection range: frontal: 8 m, lateral: 7 m, Mounting height: 1.1 m Detection range 2: frontal: 8 m, lateral: 8 m, Mounting height: 2.2 m Detection angle: 180 ° Brightness limit value: 5 Lux - 500 Lux Up to daytime operation Mounting height: 0.8 m - 1.2 m alternative: 2.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 80 mm x 80 mm x 57 mm Mounting depth: 25 mm		
studio white	**64764 UJ-84-500**	2CKA006800A3025	1

[1] The range specifications refer only to an ambient temperature of 21°C.
[2] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Key Switch Insert [1] [2] [3]** **breaking circuit, 1-pole** For profile semi-cylindrical lock. In switched-on and switched-off status the key can be pulled out in the central position, respectively. Delivered without cylindrical lock. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20IEC60669-1, British Standard EN 60669-1		
	2733 USL-101	2CKA001101A0914	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		
delivery form:	Adapter plate APBS to be ordered separate.		

[1] For installation on British Standard wallboxes please use adapter plate APBS (6599-0-2813). (Depth of box 60 mm.)
[2] Use the cylindrical lock according to the enclosed drawing.
[3] See profile semi-cylindrical lock.

Product	Article-No.	Order-No.	Pack/Qty
	**Blind switch insert [1] [2]** **SP, switch** With interlock. Rated voltage: 250 V~ Rated current: 10 AX Protection class (Device): IP 20IEC60669-1, British Standard EN 60669-1		
	2000/4 US-500	2CKA001012A2197	10/100
	2020/4 US-500	2CKA001413A1103	10/100

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] These blind switches/push buttons safely prevent a switch-over of the running direction being carried out too quickly.

Product	Article-No.	Order-No.	Pack/Qty
	**Blind switch insert [1] [2]** With rotary knob/switch and push switch. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC 60669-1, British Standard EN 60669-1		
	DP [3]		
	2712 U	2CKA001101A0534	10
	SP, N, E		
	2713 U	2CKA001101A0542	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		
delivery form:	Adapter plate APBS to be ordered separate.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Blind switches/push switches prevents fast change over between operating directions.
[3] Also suitable for controlling direct voltage drives.

future® linear
Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Blind switch insert** [1] [2] With rotary knob/push button. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 IEC60669-1, British Standard EN 60669-1		
	DP [3]		
	2722 U	2CKA001101A0559	10
	SP, N, E		
	2723 U	2CKA001101A0567	10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Blind switches/push switches prevents fast change over between operating directions.
[3] Also suitable for controlling direct voltage drives.

Product	Article-No.	Order-No.	Pack/Qty
	**Blind switch/push-switch** [1] [2] [3] [4] For profile semi-cylindrical lock/switch and push-switch. Delivered without cylindrical lock. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20 IEC60669-1, British Standard EN 60669-1		
	DP [5]		
	2712 USL-101	2CKA001101A0872	10
	SP, N, E		
	2713 USL-101	2CKA001101A0880	10

[1] For installation on British Standard wallboxes please use adapter plate APBS (6599-0-2813). (Depth of box 60 mm.)
[2] Blind switches/push switches prevents fast change over between operating directions.
[3] Use the cylindrical lock according to the enclosed drawing.
[4] See semi-cylindrical lock.
[5] Also suitable for controlling direct voltage drives.

Product	Article-No.	Order-No.	Pack/Qty
	**Blind switch insert** [1] [2] [3] [4] For profile semi-cylindrical lock/push-button. Delivered without cylindrical lock. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 20 British Standard EN 60669-1, IEC60669-1		
	DP [5]		
	2722 USL-101	2CKA001101A0898	10
	SP, N, E		
	2723 USL-101	2CKA001101A0906	10

[1] For installation on British Standard wallboxes please use adapter plate APBS (6599-0-2813). (Depth of box 60 mm.)
[2] Blind switches/push switches prevents fast change over between operating directions.
[3] Use the cylindrical lock according to the enclosed drawing.
[4] See semi-cylindrical lock.
[5] Also suitable for controlling direct voltage drives.

Product	Article-No.	Order-No.	Pack/Qty
	**DIN profile-semi cylindrical lock** Acc. to German Standard DIN 18252. Total length 40 mm for blind switches and push switches For inserts 2712/2713/2722/2723/2733 USL-101 and 2712/2733 SLW-5x. Protection class (Device): IP 20		
	different lock mechanism, with 3 keys		
	0520 PZ-VS	2CKA000470A0013	1/100
	lock mechanism, with 3 keys		
	0521 PZ-GS	2CKA000470A0021	1/100

Product	Article-No.	Order-No.	Pack/Qty
	**Blind compact timer** Suitable for blind and roller blind drives with mechanical or electronic limit switch shut-off. Without extension unit input. Running time: 3 min N-busbar connection is required. For manual and time-controlled switching of blinds and roller blinds. Memory function for the simple storage of switching times. The controlled devices can be manually operated at any time. Simple setting via display with with segment display and background illumination. Factory pre-set switching times, individual adaptations are possible. 2 switching times per day can be freely adjusted for each day of the week. Automatic switchover from summer time to winter time (switch-off function). Switching times and programs are safely stored in the event of a mains power failure. Power reserve for time and date > 10 years. Simple toggling between manual/automatic/vacation modes. See the associated cover plates 6435-xx. Programming possible only with control element attached and energized. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 2x Normally open contact Rated current: 3 A, cos ϕ 0.5 Rated power: 690 VA Temperature range (Device): 0 °C to 45 °C		
	6422 U-500	2CKA006410A0410	1/10

future® linear
Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Basic blind insert [1] [2]** **2-wire blind insert** Suitable for blind and roller blind drives with mechanical or electronic limit switch shut-off. Suitable for operation without neutral conductor. Without an extension input. For control cover 6430-xx-xxx. For standard timer control element 6456-101. Running time: 3 min Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 2x Normally open contact Rated current: 3 A, cos ϕ 0.5 Rated power: 690 VA Temperature range (Device): 0 °C to 35 °C		
	6418 U-500	2CKA006410A0376	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] N-conductor connection required for operation with control cover 6430-7x, illuminated.
[2] N-conductor connection may be required for operation with blind and roller blind drives with electronic limit switch shut-off. If no N-conductor is available, capacitor set 6498 can be used.

	**Busch-Blind control II switch insert [1]** Suitable for blind, roller blind and awning drives with mechanical or electronic limit switch shut-off. With two 230 V multi-way input terminals (Up/Down) for group control. With operating mode switch for the following modes: normal, louvre, base station, position. With party function (disables the local control unit) in combination with Busch-Blind control II control cover 6430-xx-xxx, 6066-xx-xxx. Wind alarm, cleaning functions can be accommodated via extension input. For control cover 6430-xx-xxx. For IR control element 6066-xx-xxx. For comfort timer control element 6455-101-500. Running time: 3 min Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 2x Normally open contact Rated current: 3 A, cos ϕ 0.5 Rated power: 690 VA Control/Signal outputs: 2 Temperature range (Device): 0 °C to 35 °C		
	6411 U-500-101	2CKA006410A0378	1/10

[1] Compatible with types 6411 U/x.

	**Blind comfort timer, complete set** Consisting of Busch-Blind control II insert 6411 U-101. Consisting of the comfort timer control element 6455-101. Cover frame design future® linear 1721-184K. Consisting of the future® linear cover plate for timer control element 6435-84.		
studio white	**6411 UJ-84-101**	2CKA006410A0408	1

Product	Article-No.	Order-No.	Pack/Qty
	**Blind compact timer, complete set** Suitable for blind and roller blind drives with mechanical or electronic limit switch shut-off. Without extension unit input. Consisting of blind compact timer 6422 U. Consisting of the future® linear cover plate for timer control element 6435-84. Consisting of future® linear cover frames, 1gang 1721-184K. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 2x Normally open contact Rated current: 3 A, cos ϕ 0.5 Rated power: 690 VA Temperature range (Device): 0 °C to 45 °C		
	6422 UJ-84	2CKA006410A0413	1

	**Brightness sensor** For insert 6411U/S-101. With 2 m connecting cable. Measuring range: 15-50,000 lux.		
	6414-101	2CKA006410A0389	1/10

	**Sun sensor** For insert 6411U/S-101. Measuring range: 5-50,000 lux.		
	6482	2CKA006410A0203	1

	**Busch-Short-time timer insert [1]** **countdown timer** For time-programmed switching of electrical consumers. With control cover, without cover plate. Minimum timer time: 1 second. Maximum timer time: 9:59:59 hours. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 1x Normally open contact Rated current: 10 A, cos ϕ 1 Rated power: 2300 VA Temperature range (Device): 0 °C to 35 °CIEC 60669-2-1, British Standard EN 60669-2-1		
	6465 U-101-500	2CKA006410A0393	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
Cover frames:	1gang frame 1721 BS-2xG or Dual Box frame 1722 BSDB-2xG.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

future® linear

Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker** **with marking** As cover for flush-mounted blind control switch/push switch. For inserts 2000/4 and 2020/4 US. Protection class (Device): IP 20		
anthracite	**1785 JA-81**	2CKA001751A2934	10
ivory white	**1785 JA-82**	2CKA001751A2748	10
aluminium silver [1])	**1785 JA-83**	2CKA001751A2944	10/100
studio white	**1785 JA-84-500**	2CKA001751A3088	10/100
studio white, matt [1])	**1785 JA-884**	2CKA001751A3022	10
black matt [1])	**1785 JA-885**	2CKA001751A3036	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **with rotary control, with marking** As cover for flush-mounted blind control switch/push switch. For inserts 2712 U, 2713 U and 2722 U, 2723 U. Protection class (Device): IP 20		
anthracite	**1740-81**	2CKA001710A3623	10
ivory white	**1740-82**	2CKA001710A3154	10
aluminium silver [1])	**1740-83**	2CKA001710A3661	10
studio white	**1740-84**	2CKA001710A3172	10/100
studio white, matt [1])	**1740-884**	2CKA001710A3872	10
black matt [1])	**1740-885**	2CKA001710A3894	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1])** **with labelling field** With marking. For half-cylindrical type switches and blind control switch/push-switch. For inserts 2733 USL-101 and 2712 USL-101, 2713 USL-101, 2722 USL-101, 2723 USL-101. Protection class (Device): IP 20		
anthracite	**1755 SL/PZ-81-101**	2CKA001710A3626	10
ivory white	**1755 SL/PZ-82-101**	2CKA001710A3157	10
aluminium silver [2])	**1755 SL/PZ-83-101**	2CKA001710A3662	10
studio white	**1755 SL/PZ-84-101**	2CKA001710A3175	10
studio white, matt [2])	**1755 SL/PZ-884-101**	2CKA001710A3925	10
black matt [2])	**1755 SL/PZ-885-101**	2CKA001710A3902	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Control element** For Busch-Blind control II insert 6411 U-101, 6411 U/S-101. For basic blind insert 6418 U. For Busch-Universal 2gang 1way insert 6402 U.		
anthracite	**6430-81-102**	2CKA006430A0326	1/10
ivory white	**6430-82-102**	2CKA006430A0327	1/10
aluminium silver [1])	**6430-83-102**	2CKA006430A0328	1/10
studio white	**6430-84-102-500**	2CKA006430A0400	1/10
studio white, matt [1])	**6430-884-102**	2CKA006430A0385	1/10
black matt [1])	**6430-885-102**	2CKA006430A0386	1/10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Standard timer control element [1])** For manual and time-controlled switching of blinds and roller blinds. With dusk to dawn program including (Astro-program) Individual Astro adjustment and Astro blocking time. The controlled devices can be manually operated at any time. Simple setting via high-resolution display with background illumination. With preset switching times/date/time. Factory-set switching times can be individually adjusted. Automatic switchover from summer time to winter time (switch-off function). Switching times/programme are safely stored in the event of a mains power failure. Power reserve for time and date > 10 years. Simple toggling between manual/automatic/vacation modes. Programming possible only with control element attached and energized. 2 switching times per day can be user-defined for each day of the week. Astro switching times and switching times can be combined. For basic blind insert 6418 U. Temperature range (Device): 0 °C to 35 °C		
	6456-101	2CKA006410A0398	1/10

[1]) See respective cover plates 6435-xx.

future® linear

Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Comfort timer control element [1])** For manual and time-controlled switching of blinds, roller blinds, awnings, lighting and other electrical devices. With dusk to dawn program including (Astro-program). Individual Astro adjustment and Astro blocking time. The controlled devices can be manually operated at any time. Simple setting via high-resolution display with background illumination. With preset switching times/date/time. Factory-set switching times can be individually adjusted. Automatic switchover from summer time to winter time (switch-off function). Switching times/programme are safely stored in the event of a mains power failure. Power reserve for time and date > 10 years. Simple toggling between manual/automatic/vacation modes. Combined with Busch-Blind control II insert 6411 U/S-101, sun protection and twilight function. Freely adjustable temperature and brightness-dependent sun protection function. Freely adjustable twilight function. User-adjustable running times for blinds and air conditioning. Programming possible only with control element attached and energized. 6 switching times per day can be user-defined for each day of the week. Astro switching times and switching times can be combined. When combined with LED dimmer 6524 U, Busch-Universal master dimmer insert 6593 U or Busch-Memory touch-type controller 6550 U-101, the brightness of the lighting can be adjusted for each ON switching time. For Busch-Blind control II insert 6411 U-101, 6411 U/S-101. For Busch-Universal relay switch insert 6401 U-102. For Busch-Universal master dimmer insert 6593 U. For LED dimmer insert 6524 U and 6526 U. For Busch-Memory touch-type controller 6550 U-101. Temperature range (Device): 0 °C to 35 °C		
	6455-101-500	2CKA006410A0399	1/10

[1]) See respective cover plates 6435-xx.

	**Time switch mechanism 16 A [1]) [2])** **DP, break contact for staircases, exterior lighting, fans, etc.** Running time: 15 min. For time-programmed switching of electrical consumers. Schaltkontakte (2-polig) schließen, wenn die Laufzeit eingestellt und gestartet wird. Schaltkontakte (2-polig) öffnen, wenn die eingestellte Zeit abgelaufen ist. Rated voltage: 230 V~, +10 % / -10 % Rated current: 16 A, cos ϕ 0.25 Protection class (Device): IP 20		
	1070 U	2CKA001043A0025	1/10

[1]) For screw-fixing only
[2]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**Time switch mechanism 16 A [1]) [2])** **DP, break contact for staircases, exterior lighting, fans, etc.** Running time: 120 min For time-programmed switching of electrical consumers. Schaltkontakte (2-polig) schließen, wenn die Laufzeit eingestellt und gestartet wird. Schaltkontakte (2-polig) öffnen, wenn die eingestellte Zeit abgelaufen ist. Rated voltage: 230 V~, +10 % / -10 %. Rated current: 16 A, cos ϕ 0.25 Protection class (Device): IP 20		
	1071 U	2CKA001043A0124	1

[1]) For screw-fixing only
[2]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For comfort timer control element 6455-101-500. For standard timer control element 6456-101. For room thermostats 1098 U-101 and 1098 UF-101. For short-time timer 6465 U-101. For Busch-CO2 sensor 1091 U-500. For blind compact timer 6422 U.		
anthracite	**6435-81**	2CKA006430A0303	10
ivory white	**6435-82**	2CKA006430A0304	10
aluminium silver [1])	**6435-83**	2CKA006430A0305	10
studio white	**6435-84**	2CKA006430A0306	10
studio white, matt [1])	**6435-884**	2CKA006430A0388	10
black matt [1])	**6435-885**	2CKA006430A0389	10

[1]) Surface painted.

	**Cover plate** **with rotary knob, with marking** For Busch-Timer insert 1070 U. Running time: 15 min Protection class (Device): IP 20		
anthracite	**1770-81-103**	2CKA001753A0255	10
ivory white	**1770-82-103**	2CKA001753A0256	10
aluminium silver [1])	**1770-83-103**	2CKA001753A0257	10
studio white	**1770-84-103**	2CKA001753A0258	10
studio white matt [2])	**1770-884-103**	2CKA001753A0260	10
black matt [1])	**1770-885-103**	2CKA001753A0261	10

[1]) Surface painted.
[2]) Surface lacquered in aluminium.

	**Cover plate** **with rotary knob, with marking** For Busch-Timer insert 1071 U. Running time: 120 min Protection class (Device): IP 20		
anthracite	**1771-81-103**	2CKA001753A0265	10
ivory white	**1771-82-103**	2CKA001753A0266	10
aluminium silver [1])	**1771-83-103**	2CKA001753A0267	10
studio white	**1771-84-103**	2CKA001753A0301	10
studio white matt [1])	**1771-884-103**	2CKA001753A0303	10
black matt [1])	**1771-885-103**	2CKA001753A0304	10

[1]) Surface painted.

future® linear

Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Blind insert, 1 gang, 2 way flex** 3 wire connection (neutral conductor required). For the control of roller shutters, blind and awning motors with mechanical or electronic limit switch shut-off. Group formation via extension input possible. Operation also via conventional push buttons (2020 US non-illuminated/2021/6 UK) possible. Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL.		
	64831 U-500	2CKA006400A0096	1
	**Extension insert flex** 3 wire connection (neutral conductor required). For the extension of the Busch-Comfort switch or presence detector installations. For group control of flex inserts via extension unit communication. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with all flex inserts.		
	64891 U-500	2CKA006800A3051	1
	**Control element, 1 gang flex** Tapping control element, 1gang. Compatible with all free@home flex inserts. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64711-500	2CKA006400A0099	1
	**Control element, 1 gang, flex wireless** Tapping control element, 1gang. For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@ home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62711-WL-500	2CKA006200A0281	1
	**Control element, 2 gang flex** Tapping control element, 2gang For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64721-500	2CKA006400A0101	1

Product	Article-No.	Order-No.	Pack/Qty
	**2 gang (not 1 gang)** Tapping control element, 2gang For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@ home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62721-WL-500	2CKA006200A0283	1
	**Weather Station** For recording and transmitting of brightness, temperature, wind speed and rain. Weather data can be linked with actuators to automatically control functions. Weather data can be visualized in the free@home web interface and the free@home app. Remote operation via the Bluetooth and smartphone/tablet app.		
	WS-1-WL.1	2CKA006200A0297	1
	**Standard Inputs** WS-1/A1.1 Mast adapter weather station		
	WS-1/A1.1	2CKA006200A0848	1
	**Rocker** **1gang, with "Blind" icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
antracite	SRB-1-81	2CKA006220A0143	1
ivory white	SRB-1-82	2CKA006220A0518	1
aluminium silver	SRB-1-83	2CKA006220A0144	1
studio white	SRB-1-84	2CKA006220A0145	1
studiowhite matt	SRB-1-884	2CKA006220A0603	1
black matt	SRB-1-885	2CKA006220A0620	1

future® linear

Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker** **2gang left/right, "Blind" icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
anthracite	SRB-2-81	2CKA006220A0158	1
ivory white	SRB-2-82	2CKA006220A0523	1
aluminium silver	SRB-2-83	2CKA006220A0159	1
studio white	SRB-2-84	2CKA006220A0160	1
studiowhite matt	SRB-2-884	2CKA006220A0608	1
black matt	SRB-2-885	2CKA006220A0625	1
	**Rocker** **2gang right, with "Scene" icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
anthracite	SRS-2-R-81	2CKA006220A0173	1
ivory white	SRS-2-R-82	2CKA006220A0528	1
aluminium silver	SRS-2-R-83	2CKA006220A0174	1
studio white	SRS-2-R-84	2CKA006220A0175	1
studiowhite matt	SRS-2-R-884	2CKA006220A0613	1
black matt	SRS-2-R-885	2CKA006220A0630	

Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet** With screwless terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUC-81-500**	2CKA002011A6215	10/100
ivory white	**20 EUC-82-500**	2CKA002011A6214	10/100
aluminium silver [1])	**20 EUC-83-500**	2CKA002011A6213	10/100
studio white	**20 EUC-84-500**	2CKA002011A6207	10/100
studio white, matt	**20 EUC-884-500**	2CKA002011A6208	10
black matt [1])	**20 EUC-885-500**	2CKA002011A6211	10/100

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1])** **shuttered** With screwless terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUCKS-81**	2CKA002013A5265	10
ivory white	**20 EUCKS-82-500**	2CKA002013A5376	10/100
aluminium silver [2])	**20 EUCKS-83-500**	2CKA002013A5375	10/100
studio white	**20 EUCKS-84-500**	2CKA002013A5372	10/100
studio white, matt	**20 EUCKS-884-500**	2CKA002013A5373	10/100
black matt [2])	**20 EUCKS-885**	2CKA002013A5333	10/100

[1]) Increased shock protection .
[2]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet without claw [1])** **shuttered** Without claws. With screwless terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUCRB-81**	2CKA002013A5437	10/100
ivory white	**20 EUCRB-82**	2CKA002013A5438	10/100
aluminium silver [2])	**20 EUCRB-83**	2CKA002013A5439	10/100
studio white	**20 EUCRB-84-500**	2CKA002013A5441	10/100
studio white, matt [2])	**20 EUCRB-884**	2CKA002013A5443	10
black matt [2])	**20 EUCRB-885**	2CKA002013A5444	10/100

[1]) Increased shock protection .
[2]) Surface painted.

future® linear
Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1] [2] shuttered** With screw-type terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**2300 EUCB-81**	2CKA002013A5448	10
ivory white	**2300 EUCB-82**	2CKA002013A5449	10/100
aluminium silver [3]	**2300 EUCB-83**	2CKA002013A5450	10/100
studio white	**2300 EUCB-84**	2CKA002013A5451	10/100
studio white, matt [3]	**2300 EUCB-884**	2CKA002013A5453	10/100
black matt [3]	**2300 EUCB-885**	2CKA002013A5454	10/100

[1] Increased shock protection .
[2] With screw-type terminals
[3] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1] [2] shuttered** With screw-type terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**23 EUCB-81**	2CKA002013A5474	10
ivory white	**23 EUCB-82**	2CKA002013A5475	10
aluminium silver [3]	**23 EUCB-83**	2CKA002013A5476	10
studio white	**23 EUCB-84**	2CKA002013A5477	10/100
studio white, matt [3]	**23 EUCB-884**	2CKA002013A5479	10
black matt [3]	**23 EUCB-885**	2CKA002013A5480	10

[1] Increased shock protection .
[2] With screw-type terminal for rigid and flexible wires
[3] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet shuttered** DP (2 P + E) With screwless terminals. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
red RAL 3020	**20 EUCKS-12-82-101**	2CKA002013A5464	10

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® USB socket outlet, 2gang [1] [2] [3] [4] shuttered** For connecting electric loads. DP (2 P + E) With screwless terminals. For supply and support of mobile devices via USB-cable. With two USB type A outputs. Simultaneous charging via USB connection and use of the SCHUKO® socket outlet. Support of loading protocol on the USB-A connection: Apple MFI with 2.4 A and BC 1.2 with 1.5 A. With electronic short-circuit protection. With electronic overload protection. Rated voltage: 230 V~, +10 % / --10 % Secondary: 5 V-, +5 % / -5 % Rated frequency: 50 Hz - 60 Hz Outputs: 2x USB charging interface Suitable for: SCHUKO® socket outlet Rated current: 16 A Suitable for: In case one output is used: Rated current: 2.4 A Output voltage: 5 V- Suitable for: In case two output are used: Rated current: 1.2 A Output voltage: 5 V- Rated power: 12 W Protection class (Device): IP 20, SELV Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 58 mm Mounting depth: 39.5 mm		
anthracite	**20 EUCB2USB-81-500**	2CKA002011A6268	1/10
ivory white	**20 EUCB2USB-82-500**	2CKA002011A6270	1/10
aluminium silver [5]	**20 EUCB2USB-83-500**	2CKA002011A6272	1/10
studio white	**20 EUCB2USB-84-500**	2CKA002011A6274	1/10
studio white matt [5]	**20 EUCB2USB-884-500**	2CKA002011A6278	1/10
black matt [5]	**20 EUCB2USB-885-500**	2CKA002011A6280	1/10

[1] Increased shock protection .
[2] Connecting terminals approved in accordance with VDE 0620-1 as connectors.
[3] No data transfer.
[4] When cleaning the device, use dust cover 2098 for the USB-A connection.
[5] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Socket outlet [1] shuttered** With screwless terminals. DP (2 P + E) With eject mechanism. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUCBDR-81**	2CKA002013A5415	10
ivory white	**20 EUCBDR-82**	2CKA002013A5416	10
aluminium silver [2]	**20 EUCBDR-83**	2CKA002013A5417	10
studio white	**20 EUCBDR-84**	2CKA002013A5418	10
studio white, matt [2]	**20 EUCBDR-884**	2CKA002013A5420	10
black matt [2]	**20 EUCBDR-885**	2CKA002013A5421	10

[1] Increased shock protection .
[2] Surface painted.

future® linear
Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet steplight® [1]** **With night orientation light** with separate connection cables for switch contact. with LED, Shuttered. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUCBLI-81**	2CKA002013A5459	1
ivory white	**20 EUCBLI-82**	2CKA002013A5292	1
aluminium silver [2]	**20 EUCBLI-83**	2CKA002013A5293	1
studio white	**20 EUCBLI-84**	2CKA002013A5294	1
studio white, matt [2]	**20 EUCBLI-884**	2CKA002013A5326	1
black matt [2]	**20 EUCBLI-885**	2CKA002013A5331	1

[1] Connecting terminals approved in accordance with VDE 0620-1 as connectors.
[2] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1]** **with labelling field** DP (2 P + E) Size of labelling field: 60 x 9 mm. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUN-81**	2CKA002011A3802	10
ivory white	**20 EUN-82**	2CKA002011A3726	10
aluminium silver [2]	**20 EUN-83**	2CKA002011A3810	10
studio white	**20 EUN-84-500**	2CKA002011A6209	10/100
studio white, matt [2]	**20 EUN-884**	2CKA002011A3881	10
black matt [2]	**20 EUN-885**	2CKA002011A3884	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1] [2]** **with label field, increased shock protection** Size of labelling field: 60 x 9 mm. With screwless terminals. DP (2 P + E) Shuttered. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUCNB-81**	2CKA002013A5427	10
ivory white	**20 EUCNB-82**	2CKA002013A5428	10
aluminium silver [3]	**20 EUCNB-83**	2CKA002013A5429	10/100
studio white	**20 EUCNB-84-500**	2CKA002013A5431	10/100
studio white, matt [3]	**20 EUCNB-884**	2CKA002013A5433	10/100
black matt [3]	**20 EUCNB-885**	2CKA002013A5434	10/100
red RAL 3020	**20 EUCNB-12-82**	2CKA002013A5423	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Increased shock protection .
[3] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1]** **with marking "EDV"** With screwless terminals. DP (2 P + E) Shuttered. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUCKS/DV-81**	2CKA002013A5266	10
ivory white	**20 EUCKS/DV-82**	2CKA002013A5267	10
aluminium silver [2]	**20 EUCKS/DV-83**	2CKA002013A5273	10/100
studio white	**20 EUCKS/DV-84**	2CKA002013A5268	10
studio white, matt [2]	**20 EUCKS/DV-884**	2CKA002013A5327	10
black matt [2]	**20 EUCKS/DV-885**	2CKA002013A5332	10

[1] Increased shock protection .
[2] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet** **shuttered** With imprint >EDP<. With screwless terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
red RAL 3020	**20 EUCKS/DV-12-82-101**	2CKA002013A5463	10

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Protector® SCHUKO® socket outlet [1]** **with overvoltage protection** DP (2 P + E) With integrated and external signalling contact. ISN = 5 kA Device protection for technical sensitive equipment such as computer, entertainment electronics and building management systems. Effectively reduces overvoltage peaks occurring between the sub-distribution switch board and SCHUKO® socket outlet. Arrestor test class: classification Type 2 Rated voltage: 250 V~ Secondary: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**2310 EUGL/VA-81-11**	2CKA002011A3830	1
ivory white	**2310 EUGL/VA-82-11**	2CKA002011A3831	1
aluminium silver [2]	**2310 EUGL/VA-83-11**	2CKA002011A3832	1
studio white	**2310 EUGL/VA-84-11**	2CKA002011A3833	1
studio white, matt [2]	**2310EUGL/VA-884-11**	2CKA002011A3882	1
black matt [2]	**2310EUGL/VA-885-11**	2CKA002011A3885	1
red RAL 3020	**2310 EUGL/ VA-12-82-101**	2CKA002011A6257	1/10

[1] Connecting terminals approved in accordance with VDE 0620-1 as connectors.
[2] Surface painted.

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Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet with LED control light** Shuttered. DP (2 P + E) With transparent lens. LED colour green. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUCBL-81**	2CKA002013A5457	10
ivory white	**20 EUCBL-82**	2CKA002013A5284	10
aluminium silver [1])	**20 EUCBL-83**	2CKA002013A5285	10
studio white	**20 EUCBL-84**	2CKA002013A5286	10
studio white, matt [1])	**20 EUCBL-884**	2CKA002013A5336	10
black matt [1])	**20 EUCBL-885**	2CKA002013A5330	10
Green, RAL 6032	**20 EUCBL-13-84-101**	2CKA002013A5467	10
orange RAL 2004 [2])	**20 EUCBL-14-84**	2CKA002013A5288	10

[1]) Surface painted.
[2]) Resistant to aggressive media, e.g., ammonia, benzine, oils, greases, alcohol, and cleansing agents, in normal concentrations.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Object socket outlet [1]) shuttered** With screwless terminals. DP (2 P + E) Incl. Cover plate with extract mechanism. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUAB-81**	2CKA002013A5404	10
ivory white	**20 EUAB-82**	2CKA002013A5405	10
aluminium silver [2])	**20 EUAB-83**	2CKA002013A5406	10
studio white	**20 EUAB-84**	2CKA002013A5407	10
studio white, matt [2])	**20 EUAB-884**	2CKA002013A5409	10
black matt [2])	**20 EUAB-885**	2CKA002013A5410	10

[1]) Increased shock protection .
[2]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**FI-SCHUKOMAT, SCHUKO® socket outlet (RCD) [1]) [2]) [3]) with earth leakage circuit breaker** Shuttered. DP cut off (P,N) Without PE monitoring. With output terminals for connecting and protecting downsream SCHUKO® socket outlets. Rated fault current: 30 mA. With fixing claws. Rated frequency: 45-60 Hz. Rated voltage: 230 V~ Rated current: 16 A Protection class (Device): IP 20 Temperature range (Device): -25 °C to 40 °C		
anthracite	**3120 EUCB-81**	2CKA003116A0667	1/10
ivory white	**3120 EUCB-82**	2CKA003116A0661	1
aluminium silver [4])	**3120 EUCB-83**	2CKA003116A0668	1/10
studio white	**3120 EUCB-84**	2CKA003116A0662	1
studio white, matt [4])	**3120 EUCB-884**	2CKA003116A0670	1/10
black matt [4])	**3120 EUCB-885**	2CKA003116A0671	1/10

[1]) Connecting terminals approved in accordance with VDE 0620-1 as connectors.
[2]) Protective measure according to VDE 0100; can be proven or checked using the Profitest 0100S testing device, for example.
[3]) Increased shock protection .
[4]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Buschmat® FI - Insert [1]) with earth leakage breaker with connecting conductor** Protection of downstream consumers. Rated fault current: 30 mA. DP cut off (P,N) Without claw fixation. Rated frequency: 45-60 Hz. Rated voltage: 230 V~ Rated current: 16 A Protection class (Device): IP 20 Temperature range (Device): -25 °C to 40 °C		
anthracite	**3151 UC-81**	2CKA003117A0009	1/10
ivory white	**3151 UC-82**	2CKA003117A0005	1/10
aluminium silver [2])	**3151 UC-83**	2CKA003117A0010	1/10
studio white	**3151 UC-84**	2CKA003117A0006	1/10
studio white, matt [2])	**3151 UC-884**	2CKA003117A0012	1/10
black matt [2])	**3151 UC-885**	2CKA003117A0013	1/10

[1]) Protective measure according to VDE 0100; can be proven or checked using the Profitest 0100S testing device, for example.
[2]) Surface painted.

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Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet with hinged lid** With screwless terminals. DP (2 P + E) Hinged lid notches when opened. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUK-81**	2CKA002018A1486	10
ivory white	**20 EUK-82**	2CKA002018A1465	10
aluminium silver [1])	**20 EUK-83**	2CKA002018A1487	10
studio white	**20 EUK-84-500**	2CKA002018A1509	10/100
studio white, matt [1])	**20 EUK-884**	2CKA002018A1494	10
black matt [1])	**20 EUK-885**	2CKA002018A1495	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1]) with hinged lid and internal increased shock protection** Shuttered. With screwless terminals. DP (2 P + E) with hinged lid Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUKB-81**	2CKA002018A1517	10/100
ivory white	**20 EUKB-82**	2CKA002018A1518	10/100
aluminium silver [2])	**20 EUKB-83**	2CKA002018A1519	10/100
studio white	**20 EUKB-84**	2CKA002018A1520	10/100
studio white, matt [2])	**20 EUKB-884**	2CKA002018A1522	10/100
black matt [2])	**20 EUKB-885**	2CKA002018A1523	10/100
anthracite [3])	**20 EUKBR-81**	2CKA002018A1526	10/100
ivory [3])	**20 EUKBR-82**	2CKA002018A1527	10/100
aluminium silver [2]) [3])	**20 EUKBR-83**	2CKA002018A1528	10/100
studio white [3])	**20 EUKBR-84**	2CKA002018A1529	10/100
studio white, matt [2]) [3])	**20 EUKBR-884**	2CKA002018A1530	10/100
black matt [2]) [3])	**20 EUKBR-885**	2CKA002018A1531	10/100

[1]) Increased shock protection .
[2]) Surface painted.
[3]) Without claw.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1]) with hinged lid and lock** Shuttered. With screwless terminals. DP (2 P + E) With different lock mechanism. Delivery includes 2 keys. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUKNBSL-81**	2CKA002018A1557	10
ivory white	**20 EUKNBSL-82**	2CKA002018A1559	10
aluminium silver [2])	**20 EUKNBSL-83**	2CKA002018A1561	10
studio white	**20 EUKNBSL-84**	2CKA002018A1563	10
studio white, matt [2])	**20 EUKNBSL-884**	2CKA002018A1565	10
black matt [2])	**20 EUKNBSL-885**	2CKA002018A1567	10

[1]) Increased shock protection .
[2]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1]) with hinged lid and lock** Shuttered. With screwless terminals. DP (2 P + E) With evenly engaging lock. Delivery includes 2 keys. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUKNBSL-81-101**	2CKA002018A1558	10
ivory white	**20 EUKNBSL-82-101**	2CKA002018A1560	10
aluminium silver [2])	**20 EUKNBSL-83-101**	2CKA002018A1562	10
studio white	**20 EUKNBSL-84-101**	2CKA002018A1564	10
studio white, matt [2])	**20 EUKNBSL-884-101**	2CKA002018A1566	10
black matt [2])	**20 EUKNBSL-885-101**	2CKA002018A1568	10

[1]) Increased shock protection .
[2]) Surface painted.

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Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1] [2] [3]** **with hinged lid and labelling field** Shuttered. With screwless terminals. DP (2 P + E) with hinged lid Size of labelling field: 60 x 9 mm. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUKNB-81**	2CKA002018A1537	10/100
ivory white	**20 EUKNB-82**	2CKA002018A1538	10/100
red RAL 3020 [4]	**20 EUKNB-12-82**	2CKA002018A1533	10/100
Green, RAL 6032 [4]	**20 EUKNB-13-82**	2CKA002018A1534	10/100
orange RAL 2004 [4]	**20 EUKNB-14-82**	2CKA002018A1535	10/100
aluminium silver [5]	**20 EUKNB-83**	2CKA002018A1539	10/100
studio white	**20 EUKNB-84**	2CKA002018A1540	10/100
studio white, matt [5]	**20 EUKNB-884**	2CKA002018A1541	10/100
black matt [5]	**20 EUKNB-885**	2CKA002018A1542	10/100

[1] Increased shock protection .
[2] The labels are clamped under the labelling field.
[3] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[4] With continuous coloured marking of cover plate and base.
[5] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1] [2] [3]** **with hinged lid, labelling field and LED control light** Shuttered. With screwless terminals. DP (2 P + E) with hinged lid Size of labelling field: 60 x 9 mm. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 EUKNBL-81**	2CKA002018A1548	10/100
ivory white	**20 EUKNBL-82**	2CKA002018A1549	10/100
red RAL 3020 [4]	**20 EUKNBL-12-82**	2CKA002018A1544	10/100
Green, RAL 6032 [4]	**20 EUKNBL-13-82**	2CKA002018A1545	10/100
orange RAL 2004 [4]	**20 EUKNBL-14-82**	2CKA002018A1546	10/100
aluminium silver [5]	**20 EUKNBL-83**	2CKA002018A1550	10/100
studio white	**20 EUKNBL-84**	2CKA002018A1551	10/100
studio white, matt [5]	**20 EUKNBL-884**	2CKA002018A1552	10/100
black matt [5]	**20 EUKNBL-885**	2CKA002018A1553	10/100

[1] Increased shock protection .
[2] The labels are clamped under the labelling field.
[3] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[4] With continuous coloured marking of cover plate and base.
[5] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet** **shuttered** DP (2 P + E) With screwless terminals. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
Green, RAL 6032	**20 EUCKS-13-82-101**	2CKA002013A5470	10
orange RAL 2004	**20 EUCKS-14-82**	2CKA002013A5324	10

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1]** **with marking** Shuttered. With screwless terminals. DP (2 P + E) With continuous coloured marking of cover plate and base. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
Green, RAL 6032 [2]	**20 EUCB-13-82-102**	2CKA002013A5472	10/100
orange RAL 2004 [3]	**20 EUCB-14-82-10**	2CKA002013A5413	10/100

[1] Increased shock protection .
[2] With imprint "PS"
[3] With imprint "CPS"

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet** **with marking** With screwless terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
Green, RAL 6032	**20 EUC-13-82-101**	2CKA002011A6260	10
orange RAL 2004	**20 EUC-14-82**	2CKA002011A3723	10

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1] [2]** **with labelling field** Size of labelling field: 60 x 9 mm. With screwless terminals. DP (2 P + E) Shuttered. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
Green, RAL 6032	**20 EUCNB-13-82**	2CKA002013A5424	10
orange RAL 2004	**20 EUCNB-14-82**	2CKA002013A5425	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Increased shock protection .

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Product	Article-No.	Order-No.	Pack/Qty
	**Socket outlet [1]) shuttered** Without claws. With screw-type terminals. DP Suitable for 1gang flush-mounted boxes. Rated voltage: 250 V~ Rated current: 16 A		
anthracite	**2300 UCRKS-81-503**	2CKA002113A5339	10
ivory white	**2300 UCRKS-82-503**	2CKA002113A0510	10
studio white	**2300 UCRKS-84-503**	2CKA002113A0511	10
studio white, matt [2])	**2300 UCRKS-884-503**	2CKA002113A5337	10
black matt [2])	**2300 UCRKS-885-503**	2CKA002113A5340	10

[1]) Increased shock protection .
[2]) Surface painted.

	**Shaver socket outlet** For installation into FM 2gang wall box 3030 and 3031. Rated voltage: 240 V, +10 % / -10 % Output voltage: 115 V, +10 % / -10 % Secondary: 240 V, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Rated power: 20 VA		
anthracite	**2332 UJBS-81**	2CKA002130A0297	1
studio white	**2332 UJBS-84**	2CKA002130A0292	1
black matt [1])	**2332 UJBS-885**	2CKA002130A0295	1

[1]) Surface painted.

	**Flush-mounting wall box, 2gang** For shaver socket outlet 2332 UJBS-8xx. Protection class (Device): IP 20 Dimensions: (L x W x D): 135 mm x 75 mm x 47 mm		
	3030	2CKA001741A0067	4

	**Flush-mounting cavity wall box, 2gang** For shaver socket outlet 2332 UJBS-8xx. Protection class (Device): IP 20 Dimensions: (L x W x D): 142 mm x 75 mm x 45 mm		
	3031	2CKA001741A0068	4

	**13 A Switched socket outlet** SP switched 1gang Only for mounting in VDE flush-mounted wallboxes CFB 122 and CFBM 122. Rated voltage: 250 V~ Rated current: 13 ABS 1363: part2		
anthracite	**2190 EUC-81**	2CKA002190A0216	10/100
studio white	**2190 EUC-84**	2CKA002190A0215	10/100
black matt [1])	**2190 EUC-885**	2CKA002190A0219	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**2gang European/American socket outlet, 10A** 2gang With screw-type terminals. SP switched Without claws. Rated voltage: 250 V~ Rated current: 10 A delivery on request		
anthracite	**2192-02 UC-81-500**		
	delivery on request		
ivory white	**2192-02 UC-82-500**		
	delivery on request		
aluminium silver [1])	**2192-02 UC-83-500**		
	delivery on request		
studio white	**2192-02 UC-84-500**		

[1]) Surface painted.

	**Socket outlet [1] with earth pin** With screwless terminals. Suitable for the countries: Belgium, Poland, Czech Republic. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A		
	20 M-500	2CKA002017A0854	10/100

[1]) Insert can be used for all covers 2399 UCKS-xx.

	**Socket outlet cover frame shuttered** For socket outlet insert 20 M-500. Rated voltage: 250 V~		
anthracite	**2399 UCKS-81**	2CKA002099A0216	10
ivory	**2399 UCKS-82**	2CKA002099A0211	10
aluminium silver [1])	**2399 UCKS-83**	2CKA002099A0241	10/100
studio white	**2399 UCKS-84**	2CKA002099A0214	10
studio white, matt [1])	**2399 UCKS-884**	2CKA002099A0255	10
black matt [1])	**2399 UCKS-885**	2CKA002099A0256	10/100

[1]) Surface painted.

	**Socket outlet with earthing pin** With screwless terminals. Suitable for the countries like Poland, Czech Republic. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
ivory white	**20 MUC-82-500**	2CKA002017A0785	10/100
studio white	**20 MUC-84-500**	2CKA002017A0786	10/100
studio white, matt [1])	**20 MUC-884-500**	2CKA002017A0859	10

[1]) Surface painted.

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Product	Article-No.	Order-No.	Pack/Qty
	**Socket outlet [1])** **with earth. pin/increased shock protection** With screwless terminals. Shuttered. Suitable for the countries like Poland, Czech Republic. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**20 MUCKS-81-500**	2CKA002017A0898	10
ivory white	**20 MUCKS-82-500**	2CKA002017A0806	10
aluminium silver [2])	**20 MUCKS-83-500**	2CKA002017A0899	10
studio white	**20 MUCKS-84-500**	2CKA002017A0807	10
studio white matt [2])	**20 MUCKS-884-500**	2CKA002017A0901	10
black matt [2])	**20 MUCKS-885-500**	2CKA002017A0902	10

[1]) Socket outlet with integrated child protection. Replaces the usual term"...with child protection".
[2]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**USB socket outlet earthing pin, 2gang [1]) [2]) [3])** **shuttered** For connecting electric loads. DP (2 P + E) With screwless terminals. For supply and support of mobile devices via USB-cable. With two USB type A outputs. Simultaneous charging via USB connection and use of the SCHUKO® socket outlet. Support of loading protocol on the USB-A connection: Apple MFI with 2.4 A and BC 1.2 with 1.5 A. With electronic short-circuit protection. With electronic overload protection. Suitable for the countries: Belgium, Poland, Czech Republic. Rated voltage: 230 V~, +10 % / --10 % Secondary: 5 V-, +5 % / -5 % Rated frequency: 50 Hz - 60 Hz Outputs: 2x USB charging interface Suitable for: Earth pin socket Rated current: 16 A Suitable for: In case one output is used: Rated current: 2.4 A Suitable for: In case two output are used: Rated current: 1.2 A Output voltage: 5 V- Rated power: 12 W Protection class (Device): IP 20, SELV Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 58 mm Mounting depth: 39.5 mm		
anthracite	**20 MUCB2USB-81-500**	2CKA002011A6290	1
aluminium silver [4])	**20 MUCB2USB-83-500**	2CKA002017A1890	1/10
studio white	**20 MUCB2USB-84-500**	2CKA002017A1891	1/10
studio white matt [4])	**20 MUCB2USB-884-500**	2CKA002017A1893	1/10
black matt [4])	**20 MUCB2USB-885-500**	2CKA002017A1894	1/10

[1]) Socket outlet with integrated child protection. Replaces the usual term"...with child protection".
[2]) No data transfer.
[3]) When cleaning the device, use dust cover 2098 for the USB-A connection.
[4]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Chinese socket outlet, 10 A** 1gang With screw-type terminals. Without claws. According to Chinese standard: GB 2099.1 Rated voltage: 250 V~ Rated current: 10 A Rated current: 10 A delivery on request		
anthracite	**2193 EUC/10-81-500**		
	delivery on request		
ivory white	**2193 EUC/10-82-500**		
	delivery on request		
studio white	**2193 EUC/10-84-500**		

Product	Article-No.	Order-No.	Pack/Qty
	**Chinese socket outlet, 16 A** 1gang With screw-type terminals. Without claws. According to Chinese standard: GB 2099.1 Rated voltage: 250 V~ Rated current: 16 A delivery on request		
anthracite	**2193 EUC/16-81-500**		
	delivery on request		
ivory white	**2196 EUC/16-82-500**		
	delivery on request		
studio white	**2193 EUC/16-84-500**		

Product	Article-No.	Order-No.	Pack/Qty
	**Chinese and Euro American socket outlet, 10 A** 1gang With screw-type terminals. Without claws. According to Chinese standard: GB 2099.1 Rated voltage: 250 V~ Rated current: 10 A delivery on request		
anthracite	**2195 EUC/10-81-500**		
	delivery on request		
ivory white	**2195 EUC/10-82-500**		
	delivery on request		
studio white	**2195 EUC/10-84-500**		

Product	Article-No.	Order-No.	Pack/Qty
	**International socket outlet 13A [1])** 1gang With screw-type terminals. Without claws. Rated voltage: 250 V~ Rated current: 13 A delivery on request		
anthracite	**2197 EUC-81-500**		
	delivery on request		
ivory white	**2197 EUC-82-500**		
	delivery on request		
studio white	**2197 EUC-84-500**		

[1]) Usage may be restricted in certain countries.

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Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**Euro American socket outlet with earth, 16 A** 1gang With screw-type terminals. Without claws. Rated voltage: 250 V~ Rated current: 16 A		
	delivery on request		
anthracite	**2196 EUC-81-500**		
	delivery on request		
ivory white	**2196 EUC-82-500**		
	delivery on request		
studio white	**2196 EUC-84-500**		
	**SCHUKO® socket outlet [1] [2]** **shuttered** With screw-type terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 20		
anthracite	**23 EUCB-81**	2CKA002013A5474	10
ivory white	**23 EUCB-82**	2CKA002013A5475	10
aluminium silver [3]	**23 EUCB-83**	2CKA002013A5476	10
studio white	**23 EUCB-84**	2CKA002013A5477	10/100
studio white, matt [3]	**23 EUCB-884**	2CKA002013A5479	10
black matt [3]	**23 EUCB-885**	2CKA002013A5480	10

[1] Increased shock protection .
[2] With screw-type terminal for rigid and flexible wires
[3] Surface painted.

Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**WLAN access point, flush-mounted [1] [2]** **power supply from mains power** Operation as WLAN access point for the connection of WLAN terminal devices to the LAN. Operation as WLAN repeater for extending the transmission range of a WLAN. Operation as WLAN adapter for integrating Ethernet terminal devices into a WLAN. Supports WLAN standards IEEE 802.11b/g/n with 2.4 GHz; integrated WLAN antenna. Backward connection of an Ethernet cable via screw terminals (10/100 Mbit/s). Front-side Ethernet connection via a RJ45 socket (10/100 Mbit/s). The three connections (WLAN, Ethernet/screw terminals and Ethernet/RJ45)can be used in parallel via the integrated switch. Power supply via 2-pole connecting terminal. Nominal voltage: 100 - 240 V~ For mounting in commercially available deep flush-mounted and hollow-wall boxes. Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20 Dimensions: (L x W x D): 80 mm		
	8186/31-101-500	2CKA008100A0359	1

[1] Suitable for cover plate 1803-xxx.
[2] Not to be mounted in SM box 1701-xxx, 1702-xxx, 1703-xxx.

	**Reset magnet** For resetting WLAN access point UP 8186/31-101 and WLAN access point PoE UP 8186/41 to the factory settings. Protection class (Device): IP 20		
	8186/11-500	2CKA008100A0361	1

	**Universal data connection unit, cat. 3 [1]** **1gang** With down-leading outlet. For 8-pole plug, RJ 11/12, RJ 45, ISDN capability, Cat. 3. Design according to IEC 60 603-7-2:2007. Screw contacts With claw. Protection class (Device): IP 20		
	0213-500	2CKA000230A1549	10/100

[1] Suitable for cover plate 1803-xxx.

	**Universal data connection box with down-leading outlet [1]** **2gang internally parallel connected** With down-leading outlet. For 8-pole plug, RJ 11/12, RJ 45, ISDN capability, Cat. 3. Design according to IEC 60 603-7-2:2007. Screw contacts With claw. Protection class (Device): IP 20		
	0214	2CKA000230A0235	10/100
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		

[1] Suitable for cover plate 1803-02-xxx.

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Product	Article-No.	Order-No.	Pack/Qty
	**Universal data connection box with down-leading outlet [1])** **2 x outlets, 8/8-pole** With down-leading outlet. For 8-pole plug, RJ 11/12, RJ 45, ISDN capability, Cat. 3. Design according to IEC 60 603-7-2:2007. Screw contacts With claw. Protection class (Device): IP 20		
	0215	2CKA000230A0243	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		

[1]) Suitable for cover plate 1803-02-xxx.

Product	Article-No.	Order-No.	Pack/Qty
	**Data-connection box, RJ 45, cat. 6a iso, shielded [1])** **1gang** With down-leading outlet and LSA self-cutting clamps. RJ-45 terminals for networks according to Cat 6A, Class EA (10 Gbits/s / 500MHz). Equates to cat. 6a, Class EA according to ISO/IEC 11801:2011-06. Terminal marking A and B according to TIA/EIA-568-B.2. Typ according to EN 60 603-7-51:2011-01. Shielding according to DIN EN 55022, Class B. Up to 500 MHz on all pairs of wires. Suitable for 10-Gigabit Ethernet. Suitable for PoE+ according to IEEE 802.3at, >- 1.000 contact durability. Flex cable entries from all sides without buckles. Earthing of housing via 6,3 mm blade terminal at the back possible. Re-embedded proofed. Suitable for Mix-and-Match operation. Suitable for RJ 11, RJ 12 und RJ 45. For data cables with a diameter of 6 -10 mm. For wires of AWG 24-22. For trunk systems, flush-mounted wall boxes and underfloor systems. Without claws. Mounting depth: 31 mm. Protection class (Device): IP 20		
	0218/11-101	2CKA000230A0409	1/10

[1]) Suitable for cover plate 1803-xxx.

Product	Article-No.	Order-No.	Pack/Qty
	**Data-connection box, RJ 45, cat. 6a iso, shielded [1])** **2 x outlets, 8/8-pole** With down-leading outlet and LSA self-cutting clamps. RJ-45 terminals for networks according to Cat 6A, Class EA (10 Gbits/s / 500MHz). Equates to cat. 6a, Class EA according to ISO/IEC 11801:2011-06. Terminal marking A and B according to TIA/EIA-568-B.2. Typ according to EN 60 603-7-51:2011-01. Shielding according to DIN EN 55022, Class B. Up to 500 MHz on all pairs of wires. Suitable for 10-Gigabit Ethernet. Suitable for PoE+ according to IEEE 802.3at, >- 1.000 contact durability. Flex cable entries from all sides without buckles. Earthing of housing via 6,3 mm blade terminal at the back possible. Re-embedded proofed. Suitable for Mix-and-Match operation. Suitable for RJ 11, RJ 12 und RJ 45. For data cables with a diameter of 6 -10 mm. For trunk systems, flush-mounted wall boxes and underfloor systems. For wires of AWG 24-22. Without claws. Mounting depth: 31 mm. Protection class (Device): IP 20		
	0218/12-101	2CKA000230A0411	1/10

[1]) Suitable for cover plate 1803-02-xxx.

	**Universal data connection box 8(6)/ telephone unit 6F+N - connection box [1])** **2 x 6-pole** with straight outlet, with screw contacts, Universal data-connection boxes: RJ 11/12, ISDN capable Cat. 3 in acc. with IEC 603-7/German Standard DIN EN 60603-7, Telecommunication outlet (telephone unit): for 1 telephone, 1 auxiliary device or 1 data transmission unit, With claw. Protection class (Device): IP 20		
white	**UAE 8(6)TAE 6 F+N**	2CKA000230A0381	10/100

[1]) Suitable for cover plate 2539-xxx, 1766-xxx and 1746-2xx-FN.

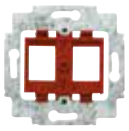
	**Satellite co-axial outlets** **2 connectors/dead-end feeder** Broadband technology 5-2.400 MHz For DVB-T, satellite and broad-band cable systems. For analogue and digital transmission. With claw. Minimal installation depth, class A. Protection class (Device): IP 20		
	0230-101	2CKA000230A0250	10/100

	**Antenna socket insert Radio/TV** **2 connectors/loop through type** Broadband technology 5-2.400 MHz For DVB-T, satellite and broad-band cable systems. For analogue and digital transmission. With claw. Minimal installation depth, class A. Protection class (Device): IP 20		
	0231-101	2CKA000230A0268	10/100

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Product	Article-No.	Order-No.	Pack/Qty
	**Satellite co-axial outlets Radio/TV/SAT 3gang dead-end feeder** Broadband technology 47-2.150 MHz. SAT connection designed as screwable F-male plug. with remote feed via F-bush For DVB-T and broadband-cable-systems. For analogue and digital transmission. With claw. Minimal installation depth, class A. Protection class (Device): IP 20		
	0232-101-500	2CKA000230A0463	10/100
	**Terminating resistor 75 Ohm** Protection class (Device): IP 20		
	0239	2CKA000230A0201	10/100
	**Mounting plate [1] [2] with green insert** For 2 modular jack inserts. For systems: CommScope (AVAYA / AT&T / Lucent Technologies), GigaSPEED, PowerSUM, 360 GS 10E bis MGS 600-BK, M1 BH-xx, MPS 100E-xx. With R&M adapter R310694 suitable for R&M connection modules R305111, R305112, R305113 and R305114. Pitch dimensions: (WxH) approx. 16.9 x 17.9 mm. Without claws. Protection class (Device): IP 20		
	1810-500	2CKA001753A9974	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

	**Mounting plate [1] [2] with red insert** For 2 modular jack inserts. Suitable for Art. Nos. 0210, 0211 and 0219-101. For systems: AMP / tyco Electronics, BTR, EFB, Krone, Panduit, Quante, Radiall, Setec, Dr.-Ing. Sieger, Telena, Thomas & Betts For Telegärtner AMJ/UMJ connection modules/ couplings. For 2 fiber optic modules of the following types: 3M-Volition, Krone, mvk. Pitch dimensions: (WxH) approx. 14.8 x 19.4 mm. Without claws. Protection class (Device): IP 20		
	1812-500	2CKA001753A9972	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

Product	Article-No.	Order-No.	Pack/Qty
	**Mounting plate [1] [2] with black insert** For MTRJ or 2 modular jack inserts. For systems: Ackermann, AMP / tyco Electronics (Slim Line (SL) -SM 2gang/switches: 110Connect Jacks, Toolless Jacks / Standard 110Connect Jacks), Brand-Rex, CombiNet, EFB Electronic, Telena. For 2 fiber optic modules of the following types: AMP / tyco Electronics MTRJ. Pitch dimensions: (WxH) approx. 14.8 x 20.4 mm. Without claws. Protection class (Device): IP 20		
	1814-500	2CKA001753A9973	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

	**Mounting plate [1] [2] with blue insert** For 2 modular jack inserts. For system: ITT Cannon RJ45 Cat. 5 type 808 RJ45 Mark III. Pitch dimensions: (WxH) approx. 16.0 x 11.0 mm. Without claws. Protection class (Device): IP 20		
	1816	2CKA001710A3100	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

	**Mounting plate [1] [2] with orange base** For 2 modular jack inserts. For system: LexCom 150 and LexCom 250. Pitch dimensions: (WxH) approx. 15.4 x 15.4 mm. Without claws. Protection class (Device): IP 20		
	1819	2CKA001753A8056	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

	**Mounting plate [1] [2] with grey base** For 2 modular jack inserts. For system: Panduit MiniCom (Cu. z.B. TX6 10 Gig Shielded Jack modules and fiber optic modules. Pitch dimensions: (WxH) approx. 15.9 x 18.7 mm. Without claws. Protection class (Device): IP 20		
	1820	2CKA001753A8057	10/100

[1] Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2] For further information, please refer on the Internet.

	**Flush-mounted assembly adapter** For the accommodation of one or two universal modules 0219. For flush-mounted installation. Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. Protection class (Device): IP 20		
	0219/12	2CKA000230A0395	1/10

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Product	Article-No.	Order-No.	Pack/Qty
	**Channel assembly adapter** For the accommodation of one or two universal modules 0219. For channel and under-floor installation. Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. Protection class (Device): IP 20		
	0219/13	2CKA000230A0396	1/10
	**Universal module, RJ 45, cat. 6a iso, shielded [1]) 1gang** For installation in installation adapter 0219/12 or 0219/13. Also suited for mounting into cover plate 2561-xxx, 2564-02-xxx and bases 1812, 1866 EB, and 1867 EB. RJ-45 terminals for networks according to Cat 6A, Class EA (10 Gbits/s / 500MHz). Equates to cat. 6a, Class EA according to ISO/IEC 11801:2011-06. Cat. 6A according to ISO/IEC 11801: 2011-06. Terminal marking A and B according to TIA/EIA-568-B.2. Typ according to EN 60 603-7-51:2011-01. Shielding according to DIN EN 55022, Class B. Suitable for PoE+ according to IEEE 802.3at, >- 1.000 contact durability. Bend-radius optimised cable feed (30°). Earthing of housing via 6,3 mm blade terminal at the back possible. Re-embedded proofed. Suitable for Mix-and-Match operation. For 8-pole plug RJ 45 only. Housing made from diecast zinc. With integrated dust-protection cap (can be removed if necessary). With insulation displacement connection For data cables with a diameter of 6 -10 mm. For wires of AWG 24-22. For trunk systems, flush-mounted wall boxes and underfloor systems. Protection class (Device): IP 20		
	0219-101	2CKA000230A0413	1/10

[1]) With assembly adapters appropriate for telephone unit cover plates 2539-21x and 1766-xxx.

	**Modular-Jack insert** **6-pole Cat. 3 (AMP-No. 216000-2)** For cover plate 2561-xxx, 2561-02-xxx and insert 1812, 1866 built-in, 1867 built-in. For conductor cross-sections of 0.12 mm² (AWG 26) to 0.35 mm² (AWG 22). Protection class (Device): IP 20		
	0210	2CKA000225A0078	10
	**Modular-Jack insert** **8-pole Cat. 3 (AMP-No. 216005-4)** For cover plate 2561-xxx, 2561-02-xxx and insert 1812, 1866 built-in, 1867 built-in. For conductor cross-sections of 0.12 mm² (AWG 26) to 0.35 mm² (AWG 22). Protection class (Device): IP 20		
	0211	2CKA000225A0086	10

Product	Article-No.	Order-No.	Pack/Qty
	**Built-in jack** For potential balancing jack cover plate and installation in cover plates. For devices of 19 mm diameter. Protection class (Device): IP 20		
	0471-0-0037	2CKA000471A0037	10
	**Potential balancing plug** Suitable for plug 2095 UC-212 and built-in jack 0471-0-0037 acc. to German Standard DIN 42801. For potential balancing jack cover plate (connection up to 6 mm² crimped or soldered) Protection class (Device): IP 20		
	0299-0-0032	2CKA000299A0032	10
	**Blank plate** **with metal mounting plate** Protection class (Device): IP 20		
anthracite	**1742-81**	2CKA001710A3612	10
ivory white	**1742-82**	2CKA001710A3143	10
aluminium silver [1])	**1742-83**	2CKA001710A3664	10
studio white	**1742-84**	2CKA001710A3161	10/100
studio white	**1742-84-500**	2CKA001710A3991	10/100
studio white, matt [1])	**1742-884**	2CKA001710A3873	10/100
black matt [1])	**1742-885**	2CKA001710A3895	10

[1]) Surface painted.

	**Cover plate [1])** As cover for flex outlet, for cords up to 10.3 mm diameter. With strain relief (without terminal block). Protection class (Device): IP 20		
anthracite	**1749-81**	2CKA001710A3614	10
ivory white	**1749-82**	2CKA001710A3145	10
aluminium silver [2])	**1749-83**	2CKA001710A3665	10
studio white	**1749-84**	2CKA001710A3163	10/100
studio white, matt [2])	**1749-884**	2CKA001710A3878	10
black matt [2])	**1749-885**	2CKA001710A3900	10

[1]) Cover plate can also be used individually as cover for telephone connector boxes (VDo).
[2]) Surface painted.

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Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1]** As cover for universal data connection boxes. Art.-No. 0213 (Cat 3/ISDN), 0216-101, 0218/11-101 (Cat 5e/6 data technology) and comparable types of the company Rutenbeck. For WLAN access points 8186/31 and 8186/41. Brand-Rex (WAEGV 8 EKR/EK). BTR (universal data connecting unit design and IAE design). Telegärtner (AMJ 45, UMJ 45). With down-leading outlet. With labelling field. Size of labelling field: 60 x 9 mm. Protection class (Device): IP 20		
anthracite	**1803-81**	2CKA001710A3616	10
ivory white	**1803-82**	2CKA001710A3147	10
aluminium silver [2]	**1803-83**	2CKA001710A3674	10
studio white	**1803-84-500**	2CKA001710A1550	10/100
studio white, matt [2]	**1803-884**	2CKA001710A3889	10
black matt [2]	**1803-885**	2CKA001710A3912	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1]** **2gang** As cover for universal data connection boxes. Art. No. 0214, 0215 (Cat 3), 0220/12-507, 0221/12-507, 0218, 0217 (Cat 5e/6 data technology) and comparable types of the company Rutenbeck. Brand-Rex (WAEGV 8/8 EKR/EK). AMP (NETCONNECT 5E). BTR (E-DAT C6, E-DAT design, Universal data connecting unit design and IAE design). cti (cti-wire 2.8 Cat.6). Telegärtner (AMJ 45, UMJ 45). With down-leading outlet. With labelling field. Size of labelling field: 60 x 9 mm. Protection class (Device): IP 20		
anthracite	**1803-02-81**	2CKA001710A3615	10
ivory white	**1803-02-82**	2CKA001710A3146	10
aluminium silver [2]	**1803-02-83**	2CKA001710A3610	10/100
studio white	**1803-02-84-500**	2CKA001710A1551	10/100
studio white, matt [2]	**1803-02-884**	2CKA001710A3888	10
black matt [2]	**1803-02-885**	2CKA001710A3911	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For telephone connection unit. For USB, VGA, HDMI inserts and communication adapter. USB power adapter insert 6472 U-500-101. USB power adapter insert 6475 U-101-500. For loudspeaker connection box. Suitable for part number 0248/0x-101. For data modules. Suitable for Art. No. 0219/12 and 0219/13. For modular outlets with 90° RJ45 outlet from Telegärtner (type MJ and WE). Protection class (Device): IP 20		
anthracite	**1766-81**	2CKA001710A3613	10
ivory white	**1766-82**	2CKA001710A3144	10/100
aluminium silver [1]	**1766-83**	2CKA001710A3659	10/100
studio white	**1766-84-500**	2CKA001710A3992	10/100
studio white, matt [1]	**1766-884**	2CKA001710A3926	10
black matt [1]	**1766-885**	2CKA001710A3903	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** As cover for telephone connector boxes (VDo). Can be knocked out for single or double connection. Protection class (Device): IP 20		
anthracite	**1745-81**	2CKA001710A3624	10
ivory white	**1745-82**	2CKA001710A3155	10
aluminium silver [1]	**1745-83**	2CKA001710A3675	10
studio white	**1745-84**	2CKA001710A3173	10
studio white, matt [1]	**1745-884**	2CKA001710A3874	10
black matt [1]	**1745-885**	2CKA001710A3896	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1]** **socket outlet** Telephone socket (TDO)		
anthracite	**1762-81-506**	2CKA001710A4103	10/100
ivory white	**1762-82-506**	2CKA001710A4104	10/100
aluminium silver [2]	**1762-83-506**	2CKA001710A4105	10/100
studio white	**1762-84-506**	2CKA001710A4106	10/100
studio white matt [2]	**1762-884-506**	2CKA001710A4108	10/100
black matt [2]	**1762-885-506**	2CKA001710A4109	10/100

[1] Suitable insert: TDO 3x 10 OUP (for 1 telephone and 2 auxiliary devices).
[2] Surface painted.

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Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1] [2]** **as cover for standard Radio/TV/SAT socket outlets** With 2 connectors Acc. to German Standard DIN 45330. Radio/TV/SAT. With M3 fixing screw. Protection class (Device): IP 20		
anthracite	**1743-81**	2CKA001724A4252	10
ivory white	**1743-82**	2CKA001724A2758	10
aluminium silver [3]	**1743-83**	2CKA001724A4262	10
studio white	**1743-84-500**	2CKA001724A4332	10/100
studio white, matt [3]	**1743-884**	2CKA001724A4293	10/100
black matt [3]	**1743-885**	2CKA001724A4298	10/100

[1] Third opening can be knocked out.
[2] See inserts for satellite coaxial socket outlets.
[3] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** As cover for 4gang Satellite co-axial socket outlet EVU 02 F, GEVU 15 S from Hirschmann. Protection class (Device): IP 20		
anthracite	**1743-04-81**	2CKA001724A4374	10
ivory white	**1743-04-82**	2CKA001724A4375	10
aluminium silver [1]	**1743-04-83**	2CKA001724A4376	10
studio white	**1743-04-84**	2CKA001724A4377	10
studio white, matt [1]	**1743-04-884**	2CKA001724A4379	10
black matt [1]	**1743-04-885**	2CKA001724A4380	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** As cover for 4gang Satellite co-axial socket outlet SAT400/EAS/DC, EAS 405, 413 DAS from Ankaro. Protection class (Device): IP 20		
anthracite	**1743/10-04-81**	2CKA001724A4365	10
ivory white	**1743/10-04-82**	2CKA001724A4366	10
aluminium silver [1]	**1743/10-04-83**	2CKA001724A4367	10
studio white	**1743/10-04-84**	2CKA001724A4368	10/100
studio white, matt [1]	**1743/10-04-884**	2CKA001724A4370	10
black matt [1]	**1743/10-04-885**	2CKA001724A4371	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1]** **with labelling field** For modular jack with slide entrance. To fit only Art. No. 1810, 1812, 1814, 1816, 1818, 1819 and 1820. Size of labelling field: 60 x 9 mm. Protection class (Device): IP 20		
anthracite	**1800-81**	2CKA001710A3627	10
ivory white	**1800-82**	2CKA001710A3158	10
aluminium silver [2]	**1800-83**	2CKA001710A3676	10
studio white	**1800-84-500**	2CKA001710A3990	10/100
studio white, matt [2]	**1800-884**	2CKA001710A3887	10
black matt [2]	**1800-885**	2CKA001710A3910	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For 1 modular jack. Suitable for Art. Nos. 0210, 0211 and 0219-101. Without claws. Protection class (Device): IP 20		
anthracite	**2561-81**	2CKA001753A0400	10
ivory white	**2561-82**	2CKA001753A0401	10
aluminium silver [1]	**2561-83**	2CKA001753A0402	10
studio white	**2561-84**	2CKA001753A0403	10
studio white, matt [1]	**2561-884**	2CKA001753A0405	10
black matt [1]	**2561-885**	2CKA001753A0406	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For 2 modular jack inserts. Suitable for Art. No. 0210 and 0211. Without claws. Protection class (Device): IP 20		
anthracite	**2561-02-81**	2CKA001753A0317	10
ivory white	**2561-02-82**	2CKA001753A0392	10
aluminium silver [1]	**2561-02-83**	2CKA001753A0393	10
studio white	**2561-02-84**	2CKA001753A0394	10
studio white, matt [1]	**2561-02-884**	2CKA001753A0396	10
black matt [1]	**2561-02-885**	2CKA001753A0397	10

[1] Surface painted.

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Product	Article-No.	Order-No.	Pack/Qty
	Cover plate For telecommunication inserts with cover plate 50 x 50 mm. With cover plate 50 x 50 mm, AMP, Brand-Rex, Rutenbeck, BTR, Telegärtner, etc. Protection class (Device): IP 20		
anthracite	**1746/10-81**	2CKA001710A3628	10
ivory white	**1746/10-82**	2CKA001710A3521	10
aluminium silver [1]	**1746/10-83**	2CKA001710A3677	10
studio white	**1746/10-84-500**	2CKA001710A3993	10/100
studio white, matt [1]	**1746/10-884**	2CKA001710A3875	10
black matt [1]	**1746/10-885**	2CKA001710A3897	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	Intermediate ring **Reflex SI/SI Linear** For fitting cover plates from the Busch-Duro 2000® SI and Reflex SI range. Protection class (Device): IP 20		
ivory white	**1747 SI-82**	2CKA001710A3862	10
aluminium silver [1]	**1747 SI-83**	2CKA001710A4091	10
studio white	**1747 SI-84**	2CKA001710A3863	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Intermediate ring** **Busch-balance® SI** For attaching cover plates from the Busch-balance® SI range. Delivery without cover plate. Protection class (Device): IP 20		
anthracite	**1747 BSI-81**	2CKA001710A4093	10
ivory white	**1747 BSI-82**	2CKA001710A4094	10
aluminium silver [1]	**1747 BSI-83**	2CKA001710A4095	10
studio white	**1747 BSI-84**	2CKA001710A4096	10/100
studio white, matt [1]	**1747 BSI-884**	2CKA001710A4098	10
black matt [1]	**1747 BSI-885**	2CKA001710A4099	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	Cover plate With hinged lid. For telecommunication inserts with cover plate 50 x 50 mm. With cover plate 50 x 50 mm, AMP, Brand-Rex, Rutenbeck, BTR, Telegärtner, etc. Protection class (Device): IP 20		
anthracite	**1746-81**	2CKA001710A3618	10
ivory white	**1746-82**	2CKA001710A3149	10
aluminium silver [1]	**1746-83**	2CKA001710A3678	10
studio white	**1746-84**	2CKA001710A3167	10
studio white, matt [1]	**1746-884**	2CKA001710A3876	10
black matt [1]	**1746-885**	2CKA001710A3898	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Intermediate ring with hinged lid [1]** **Busch-balance® SI** For attaching cover plates from the Busch-balance® SI range. Delivery without cover plate. With sealing ring. With hinged lid. Protection class (Device): IP 44 Dimensions: (L x W x D): 63 mm x 63 mm x 20 mm		
anthracite	**2518-WD-81**	2CKA001719A0217	10
ivory white	**2518-WD-82**	2CKA001719A0218	10
aluminium silver [2]	**2518-WD-83**	2CKA001719A0219	10
studio white	**2518-WD-84**	2CKA001719A0220	10
studio white, matt [2]	**2518-WD-884**	2CKA001719A0222	10
black matt [2]	**2518-WD-885**	2CKA001719A0223	10

[1] Combinable only with covers for flush-mounted inserts
[2] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**XLR centre plate** As cover for Neutrik plug connectors, type D series. Without claws. Protection class (Device): IP 20		
anthracite	**2553-81**	2CKA001724A4399	10
ivory white	**2553-82**	2CKA001724A4400	10
aluminium silver [1]	**2553-83**	2CKA001724A4401	10
studio white	**2553-84**	2CKA001724A4402	10
studio white, matt [1]	**2553-884**	2CKA001724A4404	10
black matt [1]	**2553-885**	2CKA001724A4405	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **with metal mounting plate** For covering universal data communication connectors and circular connectors with screwed plug M 16x0.75 (installable in insert) in accordance with DIN 41524, 41529, 45322, 45327, 45328 and 45329. Knock-out openings 6, 8, 18 mm. Protection class (Device): IP 20		
anthracite	**1748-81**	2CKA001710A3654	10
ivory white	**1748-82**	2CKA001710A3655	10
aluminium silver [1]	**1748-83**	2CKA001710A3673	10
studio white	**1748-84**	2CKA001710A3656	10
studio white, matt [1]	**1748-884**	2CKA001710A3877	10
black matt [1]	**1748-885**	2CKA001710A3899	10

[1] Surface painted.

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Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **with metal mounting plate** As cover for BNC and TNC sockets. Knock-out openings 6, 8, 18 mm. Protection class (Device): IP 20		
anthracite	**1750-81**	2CKA001710A3617	10
ivory white	**1750-82**	2CKA001710A3148	10
aluminium silver [1])	**1750-83**	2CKA001710A3679	10
studio white	**1750-84**	2CKA001710A3166	10
studio white, matt [1])	**1750-884**	2CKA001710A3879	10
black matt [1])	**1750-885**	2CKA001710A3901	10

[1]) Surface painted.

	**Equipotential socket outlet** **2gang** Without claws. For connecting wires up to 1 x 6 mm² and 4 x 2.5 mm². IEC 60601-1:2005; DIN EN 60601 (VDE 0750-1): July 2007 Connection bolts German Standard DIN 42801. Protection class (Device): IP 20		
anthracite	**2095 UC-81**	2CKA002495A0084	10
ivory white	**2095 UC-82**	2CKA002495A0085	10
aluminium silver [1])	**2095 UC-83**	2CKA002495A0089	10
studio white	**2095 UC-84**	2CKA002495A0086	10
studio white, matt [1])	**2095 UC-884**	2CKA002495A0091	10
black matt [1])	**2095 UC-885**	2CKA002495A0092	10

[1]) Surface painted.

	**Cover plate** **with metal mounting plate** With screw-type terminal. Fixed with central locknut. As cover for pilot devices with a diameter of 22.5 mm Without claws. Protection class (Device): IP 20		
anthracite	**2533-81**	2CKA001724A4254	10
ivory white	**2533-82**	2CKA001724A4255	10
yellow	**2533-82-15**	2CKA001724A4382	10
aluminium silver [1])	**2533-83**	2CKA001724A4261	10
studio white	**2533-84**	2CKA001724A4256	10
studio white, matt [1])	**2533-884**	2CKA001724A4296	10
black matt [1])	**2533-885**	2CKA001724A4301	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1])** **with metal mounting plate** for communication devices. With labelling field 60.2 x 10.2 mm. Without claws. Protection class (Device): IP 20		
anthracite	**1758-81**	2CKA001724A4253	10
ivory white	**1758-82**	2CKA001724A2759	10
aluminium silver [2])	**1758-83**	2CKA001724A4263	10
studio white	**1758-84**	2CKA001724A2761	10/100
studio white, matt [2])	**1758-884**	2CKA001724A4307	10
black matt [2])	**1758-885**	2CKA001724A4299	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Surface painted.

	**Intermediate ring** For attaching cover plates with the dimensions of 55 x 55 mm. Protection class (Device): IP 20		
ivory white	**1747-82**	2CKA001710A3860	10
aluminium silver [1])	**1747-83**	2CKA001710A4090	10
studio white	**1747-84**	2CKA001710A3861	10

[1]) Surface painted.

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Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Radio DAB+ [1])** DAB+ and RDS stereo radio alarm clock for flush-mounted installation. With high-resolution colour display for showing additional information. Reception frequency: 87.50 MHz - 108.00 MHz. Receive frequency (DAB+): 174 MHz – 240 MHz. With external AUX input/output, reversible. For mono/stereo operation. 8 radio stations storable. With time and date display. With individual alarm and snooze function. With automatic switch-off function (automatic sleep mode). With extension input to remote-controlled ON/OFF switches. With integrated antenna. With additional connection for external antenna. Permitted speaker impedance: 4 - 8 Ohm Can be installed as 1gang and in multiple combinations. Control element: 4-button operation via floating rocker Display elements: ICU graphic display with 280 DPI. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Control/Signal outputs: 2, Loudspeaker output, impedance 4 Ohm Rated power: 2 W (RMS) Protection class (Device): IP 20 Temperature range (Device): 5 °C to 40 °C Dimensions: (L x W x D): 71 mm x 71 mm x 47 mm Mounting depth: 32 mm		
	8215 U-101-500	2CKA008200A0276	1/10

[1]) No claw. Screw-fixing via keyholes.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Radio BTconnect DAB+ [1])** **With Bluetooth interface for music replay.** DAB+ and RDS stereo radio alarm clock for flush-mounted installation. With high-resolution colour display for showing additional information. With Bluetooth interface for music replay of mobile devices. Connection of external Bluetooth loudspeakers possible. Reception frequency: 87.50 MHz - 108.00 MHz. Receive frequency (DAB+): 174 MHz – 240 MHz. With external AUX input/output, reversible. For mono/stereo operation. 8 radio stations storable. With time and date display. With individual alarm and snooze function. With automatic switch-off function (automatic sleep mode). With extension input to remote-controlled ON/OFF switches. With integrated antenna. With additional connection for external antenna. Permitted speaker impedance: 4 - 8 Ohm Can be installed as 1gang and in multiple combinations. Bluetooth specification: 4.2. Bluetooth profiles supported: A2DP Number of stored Bluetooth connections: max. 8 Control element: 4-button operation via floating rocker Display elements: ICU graphic display with 280 DPI. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Rated power: 2 W (RMS) Protection class (Device): IP 20 Temperature range (Device): 5 °C to 40 °C Dimensions: (L x W x D): 71 mm x 71 mm x 47 mm Mounting depth: 32 mm Bluetooth		
	8217 U-101-500	2CKA008200A0279	1/10

[1]) No claw. Screw-fixing via keyholes.

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Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Radio iNet [1] [2] [3] [4]** WLAN Internet radio alarm clock for flush-mounted installation. For the reception of national and international radio stations via Internet. Radio station search possible via various genres. With high resolution graphic display and background illumination. With external AUX input. Integrated web-server for configuration and control. Remote operation with smartphone via browser surface. UPnP replay function. It is controlled via smartphone. For mono/ stereo operation. 8 radio stations storable. With time and date display. With alarm function. With short-time timer. With automatic switch-off function (automatic sleep mode). With extension input to remote-controlled ON/OFF switches. With integrated WLAN antenna. WLAN Standards: IEEE 802.11b / IEEE 802.11g and IEEE 802.11n (2,4 GHz). WLAN safety: WPA / WPA2. Permitted speaker impedance: 4 - 8 Ohm Can be installed as 1gang and in multiple combinations. Rated voltage: 110 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20 Temperature range (Device): 5 °C to 40 °C Dimensions: (L x W x D): 71 mm x 71 mm x 49 mm Mounting depth: 33 mm APP		
	8216 U-500	2CKA008200A0153	1/10

[1] No claw. Screw-fixing via keyholes.
[2] Matching loudspeaker insert 8223 U.
[3] Can also be combined with built-in loudspeaker (8222 EB) and moist atmosphere loudspeaker (8224 EB).
[4] To be mounted only in connection with commercially available flush-mounted installation boxes according to DIN 49073 > 40 mm depth gauge or Busch-Jaeger art. no. 3040, 3050 or 3060.

	**Loudspeaker insert [1]** **5 cm (2")** With flat plug connector. With broadband characteristics. Rated output: 2 W (RMS) Incl. speaker connection cable. Frequency response: 200 - 20,000 Hz Impedance: 4 Ohm Protection class (Device): IP 20, SELV Mounting depth: 32 mm		
	8223 U-500	2CKA008200A0183	1/10

[1] No claw. Screw-fixing via keyholes.

	**Busch-Radio DAB+, complete set [1]** Ready-to-install DAB+ radio alarm clock for mono operation (set packaged). With high-resolution colour display for showing additional information. Consisting of the Busch-Radio DAB+ 8215 U-101. Consisting of speaker insert 8223 U. Consisting of the cover plate for Busch-Radio 8252-84-101. Consisting of cover plate for speaker insert 8253-84. Consisting of 2gang future® linear cover frame 1722-184K. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20 Temperature range (Device): 5 °C to 40 °C Dimensions: (L x W x D): 150 mm x 80 mm x 49 mm Mounting depth: 32 mm		
studio white	**8220 UJ-84-101-500**	2CKA008200A0234	1

[1] No claw. Screw-fixing via keyholes.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Radio BTconnect DAB+, complete set [1]** **With Bluetooth interface for music replay.** Ready-to-install DAB+ radio alarm clock for mono operation (set packaged). With high-resolution colour display for showing additional information. With Bluetooth interface for music replay of mobile devices. Connection of external Bluetooth loudspeakers possible. Consisting of the Busch-Radio BTconnect DAB+ 8217 U-101. Consisting of speaker insert 8223 U. Consisting of the cover plate for Busch-Radio 8252-84-101. Consisting of cover plate for speaker insert 8253-84. Consisting of 2gang future® linear cover frame 1722-184K. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20 Temperature range (Device): 5 °C to 40 °C Dimensions: (L x W x D): 150 mm x 80 mm x 49 mm Mounting depth: 32 mm		
studio white	**8270 UJ-84-101-500**	2CKA008200A0237	1

[1] No claw. Screw-fixing via keyholes.

	**Busch-Radio iNet [1] [2]** **complete set** Ready-to-install WLAN Internet radio alarm clock for mono operation (set packaged). Consisting of the Busch-Radio iNet 8216 U. Consisting of speaker insert 8223 U. Consisting of the cover plate for the Busch-Radio iNet. Consisting of cover plate for speaker insert 8253-84. Consisting of 2gang future® linear cover frame 1722-184K. Rated voltage: 110 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20 Dimensions: (L x W x D): 150 mm x 80 mm x 50 mm Mounting depth: 33 mm APP		
studio white	**8240-84-500**	2CKA008200A0156	1

[1] No claw. Screw-fixing via keyholes.
[2] To be mounted only in connection with commercially available flush-mounted installation boxes according to DIN 49073 > 40 mm depth gauge or Busch-Jaeger art. no. 3040, 3050 or 3060.

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Product	Article-No.	Order-No.	Pack/Qty
	**Busch-powerDock Insert [1] [2] [3] [4]** For charging and supplying mobile terminal devices. With quick charging function for devices compatible with quick-chargeTM. Makes possible fast charging of the mobile terminal device. Rated voltage: 100 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Suitable for: Apple terminal device Rated current: 2.1 A Output voltage: 5 V- Suitable for: Terminal device with USB-C connection Rated current: 2.1 A Output voltage: 5 V- Suitable for: Terminal device with quick-charge support and USB-C connection and quick-charge TM function. Rated current: 2 A Output voltage: 9 V- Protection class (Device): IP 20, SELV Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 32 mm Mounting depth: 32 mm		
	6473 U-500	2CKA006400A0039	1/10

[1] No claw. Screw-fixing via keyholes.
[2] The USB-C connection of the Busch-powerDock uses the quick charging function according to Qualcomm® Quick chargeTM 2.0 standard.
[3] In rare cases the manufacturers of USB-C terminal devices support the quick-charging function independent of this standard only in case of charging devices that are the same as those of other manufacturers.
[4] In these cases the quick-charging function of the terminal device is not enabled.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-powerDock Charging cradle with Apple lightning connection [1]** For Busch-powerDock insert 6473 U. For attaching mobile terminal devices with lightning connection. For iPhone XS Max, iPhone XS, iPhone XR, iPhone X. For iPhone 8 Plus, iPhone 8. For iPhone 7 Plus, iPhone 7. For iPhone SE. For iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6. For iPhone 5s, iPhone 5c, iPhone 5. For iPod touch (6th generation), iPod touch (5th generation), iPod nano (7th generation). Suitable for use with protective covers certified by Apple. Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 54 mm x 54 mm x 36 mm		
	6473-500	2CKA006400A0081	1/10

[1] Not released for use with the iPad.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-powerDock Charging cradle with USB-C connection** For Busch-powerDock insert 6473 U. For attaching mobile terminal devices with USB-C connection. Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 54 mm x 54 mm x 36 mm		
	6473/11-500	2CKA006400A0083	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**USB power adapter insert, flush-mounted [1] [2] [3]** **With USB-A & USB-C interface** For supply and support of mobile devices via USB-cable. With USB type A and USB type C female connector. To support two devices at the same time. Supports automatic negotiating of optimum charging parameters for the shortest charging times. Support of loading protocol on the USB-A connection: Apple MFI with 2.4 A and BC 1.2 with 1.5 A. Support of the additional quick-charge protocols: USB-PD and quick-charge 3.0 & 4.0. With electronic short-circuit protection. With electronic overload protection. Rated voltage: 230 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 2x USB charging interface Suitable for: Only USB-A bus occupied: Rated current: 3000 mA Output voltage: 5 V- Suitable for: Only USB-C bus occupied: Rated power: 18 W Suitable for: USB-A and USB-C bus occupied. Total: Rated current: 3250 mA Output voltage: 5 V- Protection class (Device): IP 20, SELV Temperature range (Device): 0 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 43 mm Mounting depth: 32 mm		
	6475 U-500	2CKA006400A0399	1

[1] No claw. Screw-fixing via keyholes.
[2] No data transfer.
[3] When cleaning the device, use dust cover 2098 for the USB-A connection.

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Product	Article-No.	Order-No.	Pack/Qty
	**Busch-powerDock complete set with lightning connector [1] [2] [3]** Complete set ready to install for charging mobile terminal devices with Apple lightning connection. Makes possible fast charging of the mobile terminal device. For iPhone XS Max, iPhone XS, iPhone XR, iPhone X. For iPhone 8 Plus, iPhone 8. For iPhone 7 Plus, iPhone 7. For iPhone SE. For iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6. For iPhone 5s, iPhone 5c, iPhone 5. For iPod touch (6th generation), iPod touch (5th generation), iPod nano (7th generation). Suitable for use with protective covers certified by Apple. Consisting of Busch-powerDock insert 6473 U. Consisting of Busch-powerDock charging cradle with lightning connection 6473. Consisting of the cover plate for the Busch-powerDock charging cradle. Consisting of 1gang future® linear cover frames. Rated voltage: 100 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Suitable for: Apple terminal device Rated current: 2.1 A Output voltage: 5 V- Protection class (Device): IP 20, SELV Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 81 mm x 81 mm x 74 mm Mounting depth: 32 mm Made for iPod iPhone		
studio white	**6480-84-500**	2CKA006400A0045	1

[1] No claw. Screw-fixing via keyholes.
[2] Not released for use with the iPad.
[3] "Made for iPod" and "Made for iPhone" means that an electronic accessory has been specially designed for connection to an iPod or iPhone and meets the respective Apple performance specifications that have been confirmed by the designer.
Apple is not responsible for the function of this device or its conformity with safety standards and regulatory standards.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-powerDock Complete set with USB-C connection [1] [2] [3] [4]** Complete set ready to install for charging mobile terminal devices with USB-C connection. With quick charging function for devices compatible with quick-chargeTM. Makes possible fast charging of the mobile terminal device. Consisting of Busch-powerDock insert 6473 U. Consisting of Busch-powerDock charging cradle with USB-C connection 6473/11. Consisting of the cover plate for the Busch-powerDock charging cradle. Consisting of 1gang future® linear cover frames. Rated voltage: 100 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Suitable for: Terminal device with USB-C connection Rated current: 2.1 A Output voltage: 5 V- Suitable for: Terminal device with quick-charge support and USB-C connection and quick-charge TM function. Rated current: 2 A Output voltage: 9 V- Protection class (Device): IP 20, SELV Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 81 mm x 81 mm x 74 mm Mounting depth: 32 mm		
studio white	**6480/11-84-500**	2CKA006400A0047	1

[1] No claw. Screw-fixing via keyholes.
[2] The USB-C connection of the Busch-powerDock uses the quick charging function according to Qualcomm® Quick chargeTM 2.0 standard.
[3] In rare cases the manufacturers of USB-C terminal devices support the quick-charging function independent of this standard only in case of charging devices that are the same as those of other manufacturers.
[4] In these cases the quick-charging function of the terminal device is not enabled.

	**HDMI connection unit [1]** **with screw-type terminals and strain relief** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To link high-definition digital audio and video data from e.g. SAT-receiver, DVD-/Blue-Ray-player to plasma-type, LCD- or-LED-TVs/screens. HDMI-type A, 3D-compatible. Fully HD ready (1920 x 1080 pixel). For 20-wire HDMI-cables via srew-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. For easy mounting and adhering to the admissible bending radii, the Kaiser >Electronic socket<, article number 1068-02 or 9062-74, is recommended. Without cover plate. Without claws. Protection class (Device): IP 20 Mounting depth: 34 mm		
white	**0261/31-500**	2CKA000230A0430	1
grey	**0261/33-500**	2CKA000230A0432	1
alpine white	**0261/32-500**	2CKA000230A0431	1

[1] Please follow the recommendations of the cable and device producers for the max. HDMI cable lengths.

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Product	Article-No.	Order-No.	Pack/Qty
	**VGA connection unit [1]) with screw-type terminals and strain relief** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To link analogue video data between PCs and laptops to monitors or digital projectors etc. VGA-type: D-type, 15-pole. Fully HD ready (1920 x 1080 pixel). For 15-wire VGA-cables via srew-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. For easy mounting and adhering to the admissible bending radii, the Kaiser >Electronic socket<, article number 1068-02 or 9062-74, is recommended. Without cover plate. Without claws. Protection class (Device): IP 20 Mounting depth: 34 mm		
white	**0261/21-500**	2CKA000230A0424	1
grey	**0261/23-500**	2CKA000230A0426	1
alpine white	**0261/22-500**	2CKA000230A0425	1

[1]) Please follow the recommendations of the cable and device producers for the max. VGA cable lengths.

Product	Article-No.	Order-No.	Pack/Qty
	**USB connection unit [1]) with screw-type terminals and strain relief** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To link mobile devices like e.g. printer, scanner, USB-sticks or digital cameras etc. USB-type A, USB 2.0 compatible. For 5-wire USB- cables via srew-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. For easy mounting and adhering to the admissible bending radii, the Kaiser >Electronic socket<, article number 1068-02 or 9062-74, is recommended. Without cover plate. Without claws. Protection class (Device): IP 20 Mounting depth: 34 mm		
white	**0261/11-500**	2CKA000230A0418	1
grey	**0261/13-500**	2CKA000230A0420	1
alpine white	**0261/12-500**	2CKA000230A0419	1

[1]) Please follow the recommendations of the cable and device producers for the max. USB cable lengths.

Product	Article-No.	Order-No.	Pack/Qty
	**Communication adapter for BNC-F Duct-jacks** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To support 1 or 2 jacks. For trunk systems, flush-mounted wall boxes and underfloor systems. Without cover plate. Without claws. Protection class (Device): IP 20		
white	**0262/11-500**	2CKA000230A0436	1
grey	**0262/13-500**	2CKA000230A0438	1
alpine white	**0262/12-500**	2CKA000230A0437	1

Product	Article-No.	Order-No.	Pack/Qty
	**F duct-jack for communication adapter** For connection of antenna cables e.g.. for TVs with integrated TV-tuner and satellite receiver. With screw-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. Protection class (Device): IP 20		
metal clad	**0262-500**	2CKA000230A0440	1

Product	Article-No.	Order-No.	Pack/Qty
	**Communication adapter for Cinch-jacks** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To support 1 or 2 jacks. For trunk systems, flush-mounted wall boxes and underfloor systems. Without cover plate. Without claws. Protection class (Device): IP 20		
white	**0263/11-500**	2CKA000230A0444	1
grey	**0263/13-500**	2CKA000230A0446	1
alpine white	**0263/12-500**	2CKA000230A0445	1

Product	Article-No.	Order-No.	Pack/Qty
	**Cinch-jacks for communication adapter** To link analogue audio devices like audio-receiver, amplifier and HiFi-sets. Audio-band 20Hz - 20kHz. Marked white: audio , channel left. With soldering tag. Protection class (Device): IP 20		
alpine white	**0263/04-500**	2CKA000230A0451	1

Product	Article-No.	Order-No.	Pack/Qty
	**Cinch-jacks for communication adapter** To link analogue audio devices like audio-receiver, amplifier and HiFi-sets. Audio-band 20Hz - 20kHz. Marked black: audio , channel left. With soldering tag. Protection class (Device): IP 20		
black	**0263/05-500**	2CKA000230A0452	1

Product	Article-No.	Order-No.	Pack/Qty
	**Cinch-jacks for communication adapter** To link analogue audio devices like audio-receiver, amplifier and HiFi-sets. Audio-band 20Hz - 20kHz. Marked red: audio , channel left. With soldering tag. Protection class (Device): IP 20		
Red	**0263/06-500**	2CKA000230A0453	1

Product	Article-No.	Order-No.	Pack/Qty
	**Cinch-jacks for communication adapter** For connecting analogue video devices, such as DVD players, hard disc recorders, video recorders or receivers. Marked yellow: audio , channel left. With soldering tag. Protection class (Device): IP 20		
yellow	**0263/07-500**	2CKA000230A0454	1

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Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty
	**Communication adapter for Mini-jacks 3,5mm.** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To support 1 or 2 jacks. For trunk systems, flush-mounted wall boxes and underfloor systems. Without cover plate. Without claws. Protection class (Device): IP 20		
white	**0264/11-500**	2CKA000230A0458	1
grey	**0264/13-500**	2CKA000230A0460	1
alpine white	**0264/12-500**	2CKA000230A0459	1
	**Mini-jack 3,5 mm for communication adapter** For the connection of mobile terminal devices such as MP3 player (stereo), mobile telephone and smartphones. Audio-band 20Hz - 20kHz. With soldering tag. Protection class (Device): IP 20		
chrome gloss	**0264-500**	2CKA000230A0462	1
	**Stereo loudspeaker connection box [1])** With screwless terminals (with screw-type terminals on the back). With 4 terminals. Cable cross-section max. 10 mm2. Polarity is indicated by color. With claw. Protection class (Device): IP 20		
white	**0248/02-101**	2CKA000230A0402	10/100

[1]) Suitable for cover telephone unit 1766-xxx and 2539-21x.

	**Stereo loudspeaker connection box [1])** With screwless terminals (with screw-type terminals on the back). With 4 terminals. Cable cross-section max. 10 mm2. Polarity is indicated by color. With claw. Protection class (Device): IP 20		

[1]) Suitable for cover telephone unit 1766-xxx and 2539-21x.

	**Stereo loudspeaker connection box [1])** With screwless terminals (with screw-type terminals on the back). With 4 terminals. Cable cross-section max. 10 mm2. Polarity is indicated by color. With claw. Protection class (Device): IP 20		
anthracite	**0248/05-101**	2CKA000230A0404	10/100

[1]) Suitable for cover telephone unit 1766-xxx and 2539-21x.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For Busch-Radio DAB+ 8215 U-101. For Busch-Radio BTconnect DAB+ 8217 U-101. For Busch-Radio iNet 8216 U.		
anthracite	**8252-81-101-500**	2CKA008200A0249	10
ivory white	**8252-82-101-500**	2CKA008200A0251	10
aluminium silver [1])	**8252-83-101-500**	2CKA008200A0253	10
studio white	**8252-84-101-500**	2CKA008200A0255	10
studio white matt [1])	**8252-884-101-500**	2CKA008200A0259	10
black matt [1])	**8252-885-101-500**	2CKA008200A0261	10

[1]) Surface painted.

	**Cover plate** For loudspeaker insert 8223 U.		
anthracite	**8253-81**	2CKA008200A0078	1/10
ivory white	**8253-82**	2CKA008200A0079	1/10
aluminium silver [1])	**8253-83**	2CKA008200A0080	1/10
studio white	**8253-84**	2CKA008200A0081	1/10
studio white, matt [1])	**8253-884**	2CKA008200A0123	1/10
black matt [1])	**8253-885**	2CKA008200A0126	1/10

[1]) Surface painted.

	**Cover plate** For telephone connection unit. For USB, VGA, HDMI inserts and communication adapter. USB power adapter insert 6472 U-500-101. USB power adapter insert 6475 U-101-500. For loudspeaker connection box. Suitable for part number 0248/0x-101. For data modules. Suitable for Art. No. 0219/12 and 0219/13. For modular outlets with 90° RJ45 outlet from Telegärtner (type MJ and WE). Protection class (Device): IP 20		
anthracite	**1766-81**	2CKA001710A3613	10
ivory white	**1766-82**	2CKA001710A3144	10/100
aluminium silver [1])	**1766-83**	2CKA001710A3659	10/100
studio white	**1766-84-500**	2CKA001710A3992	10/100
studio white, matt [1])	**1766-884**	2CKA001710A3926	10
black matt [1])	**1766-885**	2CKA001710A3903	10

[1]) Surface painted.

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Multimedia / communication adapters

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate with metal mounting plate** With fixing claws. loudspeaker inserts and cover. With soldering tag. For covering universal data communication connectors and circular connectors with screwed plug M 16x0.75 (installable in insert) in accordance with DIN 41524, 41529, 45322, 45327, 45328 and 45329. Protection class (Device): IP 20		
anthracite	**1751-81**	2CKA001723A0253	10
ivory white	**1751-82**	2CKA001723A0239	10
aluminium silver [1])	**1751-83**	2CKA001723A0254	10
studio white	**1751-84**	2CKA001723A0240	10/100
studio white, matt [1])	**1751-884**	2CKA001723A0260	10
black matt [1])	**1751-885**	2CKA001723A0259	10

[1]) Surface painted.

	**Cover plate with rotary control, with marking** As a cover for volume controllers. Suitable for the >LR mono BJ FM< devices of WHD. Protection class (Device): IP 20		
anthracite	**1740 DR/03-81**	2CKA001710A4120	10
ivory white	**1740 DR/03-82**	2CKA001710A3807	10
aluminium silver [1])	**1740 DR/03-83**	2CKA001710A3811	10
studio white	**1740 DR/03-84**	2CKA001710A3808	10
studio white, matt [1])	**1740 DR/03-884**	2CKA001710A3870	10
black matt [1])	**1740 DR/03-885**	2CKA001710A3892	10

[1]) Surface painted.

	Cover plate for Busch-powerDock For Busch-powerDock charging cradle.		
anthracite	**6477-81**	2CKA006400A0056	10
ivory white	**6477-82**	2CKA006400A0057	10
aluminium silver [1])	**6477-83**	2CKA006400A0058	10
studio white	**6477-84**	2CKA006400A0059	10/100
studio white matt [1])	**6477-884**	2CKA006400A0062	10
black matt [1])	**6477-885**	2CKA006400A0063	10

[1]) Surface painted.

Room thermostats

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted [1]) [2]) [3])** Switch contact opens when the set temperature is reached. With fixing claws. Separate terminal to activate nighttime mode and reduction of room temperature by 4K. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Rated current: 10 A Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1094 U-500	2CKA001032A0512	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2]) Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3]) Switching temperature difference: ± 0.5 K.

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted [1]) [2]) [3])** **Slide switch** With built-in slide switch and control lamp for nightly reduction of 4 K. Switch contact opens when the set temperature is reached. With fixing claws. Separate terminal to activate nighttime mode and reduction of room temperature by 4K. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Rated current: 10 A Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1095 U-500	2CKA001032A0514	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2]) Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3]) Switching temperature difference: ± 0.5 K.

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Room thermostats

Product	Article-No.	Order-No.	Pack/Qty



Room thermostat, flush-mounted [1] [2] [3]
Sliding switch, 24 V
With built-in slide switch and control lamp for nightly reduction of 4 K.
Switch contact opens when the set temperature is reached.
With fixing claws.
Separate terminal to activate nighttime mode and reduction of room temperature by 4K.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 24 V~
Rated current: 1 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1096 U	2CKA001032A0485	1
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat, e.g., Art. No. 6164/10 .
[3] Switching temperature difference: ± 0.5 K.



Room thermostat, flush-mounted [1] [2] [3]
1gang 2way
With fixing claws.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 5 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1097 U-500	2CKA001032A0513	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo valves of "closed or open when de-energized“ design are required for the controller. E.g. article no. 6164/10-101.
[3] Switching temperature difference: ± 0.5 K.

Product	Article-No.	Order-No.	Pack/Qty



Room thermostat, flush-mounted [1] [2] [3]
Actual value indication
With actual value temperature display
Automatic controller calibration
Switch contact opens when the set temperature is reached.
With fixing claws.
Separate terminal to activate nighttime mode and reduction of room temperature by 4K.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 10 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1094 UTA	2CKA001032A0487	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3] Switching temperature difference: ± 0.5 K.



Room thermostat, flush-mounted [1] [2] [3]
Sliding switch, actual value indication
With actual value temperature display
Automatic controller calibration
Switch contact opens when the set temperature is reached.
With built-in slide switch and control lamp for nightly reduction of 4 K.
With fixing claws.
Separate terminal to activate nighttime mode and reduction of room temperature by 4K.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 10 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1095 UTA	2CKA001032A0488	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3] Switching temperature difference: ± 0.5 K.

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Room thermostats

Product	Article-No.	Order-No.	Pack/Qty



Room thermostat, flush-mounted [1] [2] [3]
Sliding switch, actual value indication, 24 V
With actual value temperature display
Automatic controller calibration
Switch contact opens when the set temperature is reached.
With built-in slide switch and control lamp for nightly reduction of 4 K.
With fixing claws.
Separate terminal to activate nighttime mode and reduction of room temperature by 4K.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 24 V~
Rated current: 1 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1096 UTA	2CKA001032A0489	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat, e.g., Art. No. 6164/10 .
[3] Switching temperature difference: ± 0.5 K.



Room thermostat, flush-mounted [1] [2] [3]
Change-over contact, actual value indication
With actual value temperature display
Automatic controller calibration
With fixing claws.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 5 A
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1097 UTA	2CKA001032A0490	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo valves of "closed or open when de-energized“ design are required for the controller. E.g. article no. 6164/10-101.
[3] Switching temperature difference: ± 0.5 K.



Room thermostat, flush-mounted [1] [2] [3]
Change-over contact, setpoint indication, timer
With change-over contact.
Easy adjustment using menu and text-based display.
4 switching times per day can be user-defined for each day of the week.
With fixing claws.
Automatic summer/wintertime switch-over
Power reserve > 10 hours.
To fit cover plate 6435-xxx.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 10 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9

	1098 U-101	2CKA001032A0508	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo valves of "closed or open when de-energized“ design are required for the controller. E.g. article no. 6164/10-101.
[3] Switching temperature difference: ± 0.5 K.

Product	Article-No.	Order-No.	Pack/Qty



Room thermostat, flush-mounted [1]
Remote sensor
With remote sensor and thermal feedback
For underfloor heating.
With built-in slide switch and control lamp for nightly reduction of 4 K.
Switch contact opens when the set temperature is reached.
With fixing claws.
Remote sensor cable length: 4 m.
Sensor =NTC, 10 kilo-ohm at 25 degrees C.
Adjusting range: +10 to +50° C.
Connecting cable: 1mm² to 2.5 mm²
Separate terminal to activate nighttime mode and reduction of room temperature by 4K.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 16 A, cos ϕ 1
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1095 UF	2CKA001032A0497	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)



Room thermostat, flush-mounted [1] [2]
Change-over contact, setpoint indication, timer, remote sensor
With change-over contact.
Easy adjustment using menu and text-based display.
4 switching times per day can be user-defined for each day of the week.
With fixing claws.
Automatic summer/wintertime switch-over
Remote sensor cable length: 4 m.
Sensor =NTC, 10 kilo-ohm at 25 degrees C.
Power reserve > 10 hours
To fit cover plate 6435-xxx.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 16 A
Temperature range (Device): 10 °C to 50 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9

	1098 UF-101	2CKA001032A0509	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo valves of "closed or open when de-energized“ design are required for the controller. E.g. article no. 6164/10-101.

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Room thermostats

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted [1] [2] [3]** **Heating/cooling** With separate connection (230 V~) for external switchover between heating or cooling. Switch contact opens when the set temperature is reached. With fixing claws. Nominal current: 10 A heating Nominal current: 5 A cooling Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 12 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1099 UHK	2CKA001032A0515	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3] Switching temperature difference: ± 0.5 K.

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted [1] [2] [3]** **Heating/cooling, sliding switch** With built-in sliding switch for switchover between cooling or heating. Switch contact opens when the set temperature is reached. With fixing claws. Nominal current: 10 A heating Nominal current: 5 A cooling Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 12 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1099 UHKEA	2CKA001032A0516	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3] Switching temperature difference: ± 0.5 K.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **for room thermostat** For room thermostats 1094 U, 1097 U.		
anthracite	**1794-81**	2CKA001710A3629	10
ivory white	**1794-82**	2CKA001710A3543	10
aluminium silver [1]	**1794-83**	2CKA001710A3668	10
studio white	**1794-84**	2CKA001710A3544	10
studio white, matt [1]	**1794-884**	2CKA001710A3884	10
black matt [1]	**1794-885**	2CKA001710A3907	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **for room thermostat** With sliding switch for nightly room temperature reduction. to activate nighttime mode and reduction of room temperature by 4K, for thermostats 1095 U, 1096 U and 1095 UF.		
anthracite	**1795-81**	2CKA001710A3630	10
ivory white	**1795-82**	2CKA001710A3568	10
aluminium silver [1]	**1795-83**	2CKA001710A3669	10
studio white	**1795-84**	2CKA001710A3569	10
studio white, matt [1]	**1795-884**	2CKA001710A3886	10
black matt [1]	**1795-885**	2CKA001710A3909	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **for room thermostat** For room thermostats 1094 UTA, 1097 UTA.		
anthracite	**1794 TA-81**	2CKA001710A3695	10
ivory white	**1794 TA-82**	2CKA001710A3696	10
aluminium silver [1]	**1794 TA-83**	2CKA001710A3697	10
studio white	**1794 TA-84**	2CKA001710A3698	10
studio white, matt [1]	**1794 TA-884**	2CKA001710A3883	10
black matt [1]	**1794 TA-885**	2CKA001710A3906	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **for room thermostat** With sliding switch for nightly room temperature reduction. For room thermostats 1095 UTA, 1096 UTA.		
anthracite	**1795 TA-81**	2CKA001710A3722	10
ivory white	**1795 TA-82**	2CKA001710A3723	10
aluminium silver [1]	**1795 TA-83**	2CKA001710A3724	10
studio white	**1795 TA-84**	2CKA001710A3725	10
studio white, matt [1]	**1795 TA-884**	2CKA001710A3885	10
black matt [1]	**1795 TA-885**	2CKA001710A3908	10

[1] Surface painted.

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Room thermostats

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For comfort timer control element 6455-101-500. For standard timer control element 6456-101. For room thermostats 1098 U-101 and 1098 UF-101. For short-time timer 6465 U-101. For Busch-CO2 sensor 1091 U-500. For blind compact timer 6422 U.		
anthracite	**6435-81**	2CKA006430A0303	10
ivory white	**6435-82**	2CKA006430A0304	10
aluminium silver [1])	**6435-83**	2CKA006430A0305	10
studio white	**6435-84**	2CKA006430A0306	10
studio white, matt [1])	**6435-884**	2CKA006430A0388	10
black matt [1])	**6435-885**	2CKA006430A0389	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **for room thermostat** For room temperature controller 1099 UHK.		
anthracite	**1795 HK-81**	2CKA001710A4013	10
ivory white	**1795 HK-82**	2CKA001710A4015	10
aluminium silver [1])	**1795 HK-83**	2CKA001710A4016	10
studio white	**1795 HK-84**	2CKA001710A4017	10
studio white, matt [1])	**1795 HK-884**	2CKA001710A4019	10
black matt [1])	**1795 HK-885**	2CKA001710A4020	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **for room thermostat** For room temperature controller 1099 UHKEA. With sliding switch for switchover between cooling or heating.		
anthracite	**1795 HKEA-81**	2CKA001710A4045	10
ivory white	**1795 HKEA-82**	2CKA001710A4047	10
aluminium silver [1])	**1795 HKEA-83**	2CKA001710A4048	10
studio white	**1795 HKEA-84**	2CKA001710A4049	10
studio white, matt [1])	**1795 HKEA-884**	2CKA001710A4051	10
black matt [1])	**1795 HKEA-885**	2CKA001710A4052	10

[1]) Surface painted.

LED light

Product	Article-No.	Order-No.	Pack/Qty
	**Flush-mounted LED insert [1]) [2])** **Power module warm white** For Busch-iceLight wall and ceiling module Type 2068/xx. High brightness, e.g. for the display of information. Colour temperature: 2,700 K (warm white) Not dimmable. Light intensity can be switched between 100% and 25% using front service switch. System power consumption: 5 W Rated voltage: 230 V~, + 10% / - 10% Current consumption of LED: 350 mA (secondary) Secondary: SELV Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20 Temperature range (Device): 0 °C to 40 °C Dimensions: (L x W x D): -32 mmEN 62031/VDE 0715-5 of Jan. 2009		
	2067/11 U	2CKA001510A0001	1/10

[1]) Use relay inserts when switching through movement sensors or comfort switches.
[2]) For switching the LED flush mounted insert use switches without orientation light only.

Product	Article-No.	Order-No.	Pack/Qty
	**Flush-mounted LED insert [1]) [2])** **Power module neutral white** For Busch-iceLight wall and ceiling module Type 2068/xx. High brightness, e.g. for the display of information. Colour temperature: 4,000 K (neutral white) Not dimmable. Light intensity can be switched between 100% and 25% using front service switch. System power consumption: 5 W Rated voltage: 230 V~, + 10% / - 10% Current consumption of LED: 350 mA (secondary) Secondary: SELV Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20 Temperature range (Device): 0 °C to 40 °C Dimensions: (L x W x D): -32 mm x 71 mmEN 62031/VDE 0715-5 of Jan. 2009		
	2067/12 U	2CKA001510A0002	1/10

[1]) Use relay inserts when switching through movement sensors or comfort switches.
[2]) For switching the LED flush mounted insert use switches without orientation light only.

Product	Article-No.	Order-No.	Pack/Qty
	**Flush-mounted LED insert [1]) [2])** **Night light warm white** For Busch-iceLight wall and ceiling module Type 2068/xx. For low brightness (night light). Colour temperature: 3,000 K (warm white) Not dimmable. System power consumption: 0.15 W Rated voltage: 230 V~, + 10% / - 10% Current consumption of LED: 40 mA (secondary) Secondary: SELV Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20 Temperature range (Device): 0 °C to 40 °C Dimensions: (L x W x D): -32 mmEN 62031/VDE 0715-5 of Jan. 2009		
	2067/13 U	2CKA001510A0012	1/10

[1]) Use relay inserts when switching through movement sensors or comfort switches.
[2]) For switching the LED flush mounted insert use switches without orientation light only.

future® linear
LED light

Product	Article-No.	Order-No.	Pack/Qty
	**Flush-mounted LED insert** [1] [2] **Night light cold white** For Busch-iceLight wall and ceiling module Type 2068/xx. For low brightness (night light). Colour temperature 6,500 K (cold white) Not dimmable. System power consumption: 0.15 W Rated voltage: 230 V~, + 10% / - 10% Current consumption of LED: 40 mA (secondary) Secondary: SELV Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20 Temperature range (Device): 0 °C to 40 °C Dimensions: (L x W x D): -32 mmEN 62031/VDE 0715-5 of Jan. 2009		
	2067/14 U	2CKA001510A0013	1/10

[1] Use relay inserts when switching through movement sensors or comfort switches.
[2] For switching the LED flush mounted insert use switches without orientation light only.

Product	Article-No.	Order-No.	Pack/Qty
	**Info light unit** [1] [2] Size of information field 43 x 43 mm. Long service life of the lighting element (LEDs). Homogeneous backlighting of the information field. Colour temperature 6,500 K (cold white) Power consumption: < 0.5 W Rated voltage: 230 V~ Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20		
	2062 U	2CKA001511A0115	1/10

[1] Use relay inserts when switching through movement sensors or comfort switches.
[2] For switching the LED flush mounted insert use switches without orientation light only.

Product	Article-No.	Order-No.	Pack/Qty
	Cover plate [1] [2] As cover for flush-mounted info light. For insert 2062 U. Size of information field 43 x 43 mm. Protection class (Device): IP 20		
anthracite	**1716-81**	2CKA001731A1921	1
ivory white	**1716-82**	2CKA001731A1922	1
aluminium silver [3]	**1716-83**	2CKA001731A1950	1
studio white	**1716-84**	2CKA001731A1923	1
studio white, matt [3]	**1716-884**	2CKA001731A1978	1
black matt [3]	**1716-885**	2CKA001731A1980	1

[1] Included with the cover are 46 different text labels and symbols.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	Ceiling module solo/future® linear flush-type For ambient lightning. Light outlet downward. Flat construction type, almost flush with frame; combinable. Dimensions: (L x W x D): 63 mm x 63 mm x 9 mm		
	2068/22-84	2CKA001510A0017	1

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **for indication lamp** For insert 2061/2661 U. As cover for flush-mounted light signal. Protection class (Device): IP 20		
anthracite	**1756-81**	2CKA001753A0089	10
ivory white	**1756-82**	2CKA001753A0090	10
aluminium silver [1]	**1756-83**	2CKA001753A0091	10
studio white	**1756-84**	2CKA001753A0092	10
studio white, matt [1]	**1756-884**	2CKA001753A0251	10
black matt [1]	**1756-885**	2CKA001753A0252	10

[1] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cap** **for indication lamp** For indication lamps. Protection class (Device): IP 20		
clear-transparent	**1565-11**	2CKA001565A0167	10
Red	**1565-12**	2CKA001565A0175	10
green	**1565-13**	2CKA001565A0183	10

future® linear

WaveLINE inserts / control elements

Product	Article-No.	Order-No.	Pack/Qty
	**RF remote control** • Network-independent radio control. • For switching and dimming. • For controlling blinds and light scenes. • With 3 groups (A, B or C) with 5 pairs of channels. • There are 15 radio channels operated singly or up to 30 light scenes can be called.		
	6780	2CKA006780A0002	1
	**1-fach Aktor WaveLINE** • For wireless switching of electrical loads. • Functions via radio control: ON/OFF, timer and light scene control. • Functions via the extension unit: ON/OFF, timer and sending a radio control telegram. • Operation via conventional push button (2020 US/2021/6 UK) possible.		
	6701-101-500	2CKA006700A0040	1
	**1-fach Aktor WaveLINE** • For wireless switching of electrical loads. • For functions ON/OFF, timer and lightscene control. • For wall mounted transmitter Waveline 6731-xxx, 6732-xxx und 6733-xxx. • For remote control WaveLINE 6780. • Switch-off delay: Adjustable between 10 s to 5 min.		
	6702-500	2CKA006700A0023	1
	**2-fach Aktor WaveLINE** • For wireless switching of electrical loads. • For operation mode 2gang switch, 2 separate outputs. • For operation mode timer: output 1 (eg lighting), output 2: ON/Off delay in dependence of output 1 (eg fan control). • For functions: ON/OFF and light scene control. • For wall mounted transmitter Waveline 6731-xxx, 6732-xxx und 6733-xxx		
	6703-500	2CKA006700A0024	1
	**Dimm Aktor WaveLINE** • For wireless switching and dimming of electrical loads. • For functions ON/OFF, dimming and lightscene control. • With soft ON/OFF function. • With selectable light value storage. • For wall mounted transmitter Waveline 6731-xxx, 6732-xxx und 6733-xxx.		
	6704-500	2CKA006700A0025	1
	**Serien/Jalousieaktor WaveL** • For wireless switching of electrical loads. • For driving and adjusting blinds/shutters and awnings over radio. • Functions via radio control: 2gang switch, blind switch and light scene control. • Functions via extension unit: 2gang switch, blind switch and send radio control telegram. • Operation via conventional push button (2020 US/2021/6 UK) possible.		
	6705-101-500	2CKA006700A0042	1

Product	Article-No.	Order-No.	Pack/Qty
	**2-fach Binärein. WaveLINE** • Radio control telegrams are sent when the two extension units are activated with mains voltage (AC 230 V~). • Operation via conventional push button (2020 US/2021/6 UK) possible. • The 2gang binary input has 5 function modes: 1) 2-channel switching 2) 2-channel dimming 3) 1 channel blind 4) Two-channel light scene control 5) Channel 1: Switching ON Channel 2: Continuous switching ON/OFF		
	6725-500	2CKA006720A0008	1
	**Wall-mounted transmitter WaveLINE [1] [2]** **1-channel** 1gang wall-mounted transmitter independent of mains power supply. With labelling field and labelling strip. For switching and dimming. For controlling blinds and light scenes. 1 radio channel can be operated or up to 2 light scenes can be called up. For flush-mounted WaveLINE actuators 6701-101, 6702, 6703, 6704 and 6705-101. Compatible with WaveLINE KNX gateway TP-RF 6770. Send frequency: 868 MHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery Type CR2032. Battery service life: typically 5 years, therefore practically maintenance-free. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Control element: rocker switch left/right Display elements: LED to indicate the transmission Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 16 mm		
ivory white	**6731-82-500**	2CKA006730A0032	1/10
aluminium silver [3]	**6731-83-500**	2CKA006730A0035	1/10
studio white	**6731-84-500**	2CKA006730A0038	1/10

[1] Battery included in delivery.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Surface painted.

future® linear

ZigBee Light Link inserts / control elements

Product	Article-No.	Order-No.	Pack/Qty
	**Wall-mounted transmitter WaveLINE [1] [2]** **2-channel** 2gang wall-mounted transmitter independent of mains power supply. With labelling field and labelling strip. For switching and dimming. For controlling blinds and light scenes. 2 radio channels can be operated or up to 4 light scenes can be called up. For flush-mounted WaveLINE actuators 6701-101, 6702, 6703, 6704 and 6705-101. Send frequency: 868 MHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery Type CR2032. Battery service life: typically 5 years, therefore practically maintenance-free. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Control element: rocker switch left/right Display elements: LED to indicate the transmission Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 16 mm		
ivory white	**6732-82-500**	2CKA006730A0033	1/10
aluminium silver [3]	**6732-83-500**	2CKA006730A0036	1/10
studio white	**6732-84-500**	2CKA006730A0039	1/10

[1] Battery included in delivery.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Surface painted.

	**Wall-mounted transmitter WaveLINE [1] [2]** **4-channel** 4gang wall-mounted transmitter independent of mains power supply. With labelling field and labelling strip. For switching and dimming. For controlling blinds and light scenes. 4 radio channels can be operated or up to 8 light scenes can be called up. For flush-mounted WaveLINE actuators 6701-101, 6702, 6703, 6704 and 6705-101. Send frequency: 868 MHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery Type CR2032. Battery service life: typically 5 years, therefore practically maintenance-free. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Control element: rocker switch left/right. Display elements: LED to indicate the transmission. Rated voltage: 3 V-. Protection class (Device): IP 20. Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 63 mm x 63 mm x 16 mm		
ivory white	**6733-82-500**	2CKA006730A0034	1/10
aluminium silver [3]	**6733-83-500**	2CKA006730A0037	1/10
studio white	**6733-84-500**	2CKA006730A0040	1/10

[1] Battery included in delivery.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Surface painted.

	**ZLL-Power supply insert** • With electronic short-circuit protection. • With electronic overload protection. • For ZigBee Light Link control element 6735-xxx, 6736-xxx and 6737-xxx. • Without control cover. • Rated voltage: 230 V~, +10 % / -10 % • Secondary: 5 V-, +5 % / -5 %		
	6710 U-500	2CKA006710A0005	1

Product	Article-No.	Order-No.	Pack/Qty
	**ZLL-Relay insert** • 3 wire connection (neutral conductor required). • For switching retrofit LED lamps (LEDi). • For switching incandescent lamps, 230 V tungsten halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are actuated via transformers. • Without control cover.		
	6711 U-500	2CKA006710A0006	1
	**ZLL-Dimmer insert** • Touch dimmer. • For wireless switching and dimming of electrical loads. • 3 wire connection (neutral conductor required). • Optimised for dimming of retrofit LED lamps (LEDi). • For incandescent lamps, 230V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers and dimmable halogen energy-saving lamps.		
	6715 U-500	2CKA006710A0007	1
	**ZLL-Plug-in unit Switch** • Plug device for switching electric loads up to 1,380 W/VA. • Control of thermal positioners for heating control possible. • Not for electrical heating devices. • Connected load can be activated/deactivated via micro switch. • Send/receive frequency: 2.4 GHz.		
	6717-84-500	2CKA006710A0008	1
	ZigBee Light Link wall-mounted transmitter **1-channel** 1gang wall-mounted transmitter independent of mains power supply. For the wireless remote control of other ZigBee Light Link radio components. For saving and calling up 2 light scenes. For dimming a light scene. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery type CR2450 (included in scope of delivery). Battery service life: typically 3 years. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Rated voltage: 3 V- Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
anthracite	**6735/01-81**	2CKA006730A0079	1
ivory white	**6735/01-82**	2CKA006730A0080	1
aluminium silver [1]	**6735/01-83**	2CKA006730A0081	1
studio white	**6735/01-84**	2CKA006730A0082	1/10
studio white, matt [1]	**6735/01-884**	2CKA006730A0118	1
black matt [1]	**6735/01-885**	2CKA006730A0119	1

[1] Surface painted.

future® linear

WaveLINE control elements

Product	Article-No.	Order-No.	Pack/Qty
	ZigBee Light Link wall-mounted transmitter 2-channel 2gang wall-mounted transmitter independent of mains power supply. For the wireless remote control of other ZigBee Light Link radio components. For saving and calling up 4 light scenes. For dimming 2 light scenes. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery type CR2450 (included in scope of delivery). Battery service life: typically 3 years. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Rated voltage: 3 V-. Protection class (Device): IP 20. Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm.		
anthracite	**6736/01-81**	2CKA006730A0083	1
ivory white	**6736/01-82**	2CKA006730A0084	1
aluminium silver [1])	**6736/01-83**	2CKA006730A0085	1
studio white	**6736/01-84**	2CKA006730A0086	1/10
studio white, matt [1])	**6736/01-884**	2CKA006730A0124	1
black matt [1])	**6736/01-885**	2CKA006730A0125	1

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**ZigBee Light Link wall-mounted transmitter 4-channel** 4gang wall-mounted transmitter independent of mains power supply. For the wireless remote control of other ZigBee Light Link radio components. For saving and calling up 8 light scenes. For dimming 4 light scenes. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery type CR2450 (included in scope of delivery). Battery service life: typically 3 years. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Rated voltage: 3 V-. Protection class (Device): IP 20. Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm.		
anthracite	**6737/01-81**	2CKA006730A0087	1
ivory white	**6737/01-82**	2CKA006730A0088	1
aluminium silver [1])	**6737/01-83**	2CKA006730A0089	1
studio white	**6737/01-84**	2CKA006730A0090	1/10
studio white, matt [1])	**6737/01-884**	2CKA006730A0130	1
black matt [1])	**6737/01-885**	2CKA006730A0131	1

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	ZigBee Light Link control element 1gang For wireless switching and dimming of electrical loads. For ZigBee Light Link flush-mounted inserts 6710 U, 6711 U and 6715 U. In connection with the ZigBee Light Link flush-mounted inserts 6711 U and 6715 U the top rocker is used to switch or dim the non-ZLL lamps connected to the flush-mounted insert directly. In the case of 6736 and 6737, the other keys can be used for saving, calling and dimming lightscenes. In combination with the ZigBee LightLink-UP insert 6710 U for storing and calling up 2 light scenes or dimming a light scene. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. Push-button function: Switching/dimming/light scenes. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Protection class (Device): IP 20. Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm.		
anthracite	**6735-81**	2CKA006730A0067	1
ivory white	**6735-82**	2CKA006730A0068	1
aluminium silver [1])	**6735-83**	2CKA006730A0069	1
studio white	**6735-84**	2CKA006730A0070	1/10
studio white, matt [1])	**6735-884**	2CKA006730A0100	1
black matt [1])	**6735-885**	2CKA006730A0101	1

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	ZigBee Light Link control element 2gang For wireless switching and dimming of electrical loads. For ZigBee Light Link flush-mounted inserts 6710 U, 6711 U and 6715 U. In connection with the ZigBee Light Link flush-mounted inserts 6711 U and 6715 U the top rocker is used to switch or dim the non-ZLL lamps connected to the flush-mounted insert directly. In the case of 6736 and 6737, the other keys can be used for saving, calling and dimming lightscenes. In combination with the ZigBee LightLink-UP insert 6710 U for storing and calling up 4 light scenes or dimming 2 light scenes. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Protection class (Device): IP 20. Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm.		
anthracite	**6736-81**	2CKA006730A0071	1
ivory white	**6736-82**	2CKA006730A0072	1
aluminium silver [1])	**6736-83**	2CKA006730A0073	1
studio white	**6736-84**	2CKA006730A0074	1/10
studio white, matt [1])	**6736-884**	2CKA006730A0106	1
black matt [1])	**6736-885**	2CKA006730A0107	1

[1]) Surface painted.

future® linear

WaveLINE control elements

Busch-Infoline®

Product	Article-No.	Order-No.	Pack/Qty
	**ZigBee Light Link control element 4gang** For wireless switching and dimming of electrical loads. For ZigBee Light Link flush-mounted inserts 6710 U, 6711 U and 6715 U. In connection with the ZigBee Light Link flush-mounted inserts 6711 U and 6715 U the top rocker is used to switch or dim the non-ZLL lamps connected to the flush-mounted insert directly. In the case of 6736 and 6737, the other keys can be used for saving, calling and dimming lightscenes. In combination with the ZigBee LightLink-UP insert 6710 U for storing and calling up 8 light scenes or dimming 4 light scenes. For combining with/integrating in other systems which operate with the ZigBee Light Link protocol, such as Philips hue. With labelling field. Without enclosed labelling sheet. Compatible lettering software is available at www.busch-jaeger-labelingtool.com. Send/receive frequency: 2.4 GHz. Free-field range: approx. 100 m. Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 64 mm x 64 mm x 18 mm		
anthracite	**6737-81**	2CKA006730A0075	1
ivory white	**6737-82**	2CKA006730A0076	1
aluminium silver [1])	**6737-83**	2CKA006730A0077	1
studio white	**6737-84**	2CKA006730A0078	1/10
studio white, matt [1])	**6737-884**	2CKA006730A0112	1
black matt [1])	**6737-885**	2CKA006730A0113	1

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate [1]) [2])** **1gang, with labelling field** With operating knob. For signal/cancel push-button 1520/1 UK. For monitoring unit 1511 U. For Busch-Leakage guard insert 1531 U. With labelling field 61 x 20 mm. Protection class (Device): IP 20 Dimensions: (L x W x D): 63.5 mm x 63.5 mm x 11.1 mm		
studio white	**1571 CN-84**	2CKA001582A0346	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Can also be used for Busch-axcent®, solo®, and carat®.

	**Cover plate [1]) [2])** **2gang, with labelling field** With operating knob. For signal push-button insert 1520/1 UKZ. With labelling field 61 x 20 mm. With exchangeable inlays in read and green for the individual designation of the operating knob. Protection class (Device): IP 20 Dimensions: (L x W x D): 63.5 mm x 63.5 mm x 11.1 mm		
studio white	**1572 CN-84**	2CKA001582A0348	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Can also be used for Busch-axcent®, solo®, and carat®.

	**Cover plate [1]) [2])** **with red and neutral light panel and labelling field** For Alarm Control Unit insert 1515 U-12. For Busch-Alarm signal insert 1563 U-12. For indication lamp insert 1564 U-1x. With labelling field 61 x 61 mm. Protection class (Device): IP 20 Dimensions: (L x W x D): 63.5 mm x 63.5 mm x 11.1 mm		
studio white	**1573 CN-84**	2CKA001582A0350	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Can also be used for Busch-axcent®, solo®, and carat®.

	Cover plate [1]) [2]) **6gang, illuminable, with labelling field** For signal panel insert 1566 U. With labelling field 61 x 61 mm. Protection class (Device): IP 20 Dimensions: (L x W x D): 63.5 mm x 63.5 mm x 11.1 mm		
studio white	**1575 CN-84**	2CKA001582A0353	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Can also be used for Busch-axcent®, solo®, and carat®.

	Cover plate [1]) [2]) **with labelling field** For power supply insert 1518 U. For relay insert 1539 U. For signal generator insert 1561 U-.... With labelling field 61 x 61 mm. Protection class (Device): IP 20 Dimensions: (L x W x D): 63.5 mm x 63.5 mm x 11.1 mm		
studio white	**1576 CN-84**	2CKA001582A0355	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Can also be used for Busch-axcent®, solo®, and carat®.

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Accessories

Product	Article-No.	Order-No.	Pack/Qty
	**Extension of claws [1])** For the installation of flush-mounted SCHUKO® socket outlets and also switches, push-buttons, etc. and deeply installed flush-mounted boxes. Protection class (Device): IP 20		
	2148	2CKA002148A0120	100

[1]) Not suitable for types 2000/3 US, 2000/6/2 US, 2000/6/6 US-101 and double socket outlets.

	**Braille symbol** self-adhesive (transparent) for cover 2506-xxx Protection class (Device): IP 20		
	light		
	2144 LI	2CKA001714A0295	10/1000
	bell		
	2144 KI	2CKA001714A0296	10/1000
	key		
	2144 TR	2CKA001714A0297	10/1000

	**Braille symbol** **socket outlet** self-adhesive, transparent for SCHUKO® socket outlets with hinged lid 20 EUK-xxx Protection class (Device): IP 20		
	2144 ST	2CKA001714A0298	10/1000

	DIN A 4 labelling sheet [1]) **plastic foil** Suitable for all to be labeled Busch-Jaeger devices. For laser printer. The text of the foil is printed via the Busch-Jeager labeling service. Dimensions: (L x W x D): 297 mm		
translucent	**1799/02**	2CKA001799A0959	1
transparent	**1799/03**	2CKA001799A0960	1

[1]) 1 piece = 1 sheet.

	**RC suppressor** For protection against the damage or destruction of electronic devices due to overvoltages. For wiring network-interconnected inductivities (e.g.. relay, protection, fluorescent lamps, transformers, etc.). Eliminates functional disturbances on electronic devices, e.g. automatic circuit reclosure (clocking) of a movement detector. Dimensions: diameter 25 mm, length 35 mm, length of the connecting cable approx. 100 mm. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz		
	6899	2CKA006899A0231	10

Product	Article-No.	Order-No.	Pack/Qty
	**Surface-mounting box** Box for inserts and cover plates with cover frame. Protection class (Device): IP 20		
	1gang box		
anthracite	**1701-81**	2CKA001799A0895	10
ivory white	**1701-82**	2CKA001799A0896	10
aluminium silver [1])	**1701-83**	2CKA001799A0905	10
studio white	**1701-84-500**	2CKA001799A0982	10/100
studio white, matt [1])	**1701-884**	2CKA001799A0921	10
black matt [1])	**1701-885**	2CKA001799A0923	10
	2gang box		
anthracite	**1702-81**	2CKA001799A0900	10
ivory white	**1702-82**	2CKA001799A0901	10
aluminium silver [1])	**1702-83**	2CKA001799A0906	10
studio white	**1702-84**	2CKA001799A0902	10
studio white, matt [1])	**1702-884**	2CKA001799A0922	10
black matt [1])	**1702-885**	2CKA001799A0924	10
	3gang box		
anthracite	**1703-81**	2CKA001799A0915	1
ivory white	**1703-82**	2CKA001799A0916	1
aluminium silver [1])	**1703-83**	2CKA001799A0917	1
studio white	**1703-84**	2CKA001799A0918	1
studio white, matt [1])	**1703-884**	2CKA001799A0955	1
black matt [1])	**1703-885**	2CKA001799A0956	1

[1]) Surface painted.

	**Cable entry** **for SM box** Suitable for 1701-8x and 1702-8x. Trunking dimension: 15 x 15 mm to 19 x 19 mm. Protection class (Device): IP 20		
anthracite	**2087-81**	2CKA001761A1493	10
ivory white	**2087-82**	2CKA001761A1494	10
aluminium silver [1])	**2087-83**	2CKA001761A1504	10
studio white	**2087-84**	2CKA001761A1495	10

[1]) Surface painted.

future® linear
Accessories

Product	Article-No.	Order-No.	Pack/Qty
	Cable entry for SM box Suitable for 1701-8x and 1702-8x. Protection class (Device): IP 20		
anthracite	**2088-81**	2CKA001761A1498	10
ivory white	**2088-82**	2CKA001761A1499	10
aluminium silver [1])	**2088-83**	2CKA001761A1505	10
studio white	**2088-84**	2CKA001761A1500	10

[1]) Surface painted.

Cover frames

Product	Article-No.	Order-No.	Pack/Qty
	**future® linear Cover frame** **1gang frame** With small corner radii for trunking systems. Protection class (Device): IP 20 Dimensions: (L x W x D): 80 mm x 80 mm x 11 mm		
anthracite	**1721-181K**	2CKA001754A4240	10
ivory white	**1721-182K-500**	2CKA001754A4506	10/100
studio white	**1721-184K-500**	2CKA001754A4498	10/100
aluminium silver [1])	**1721-183K-500**	2CKA001754A4529	10/100
studio white, matt [1])	**1721-884K-500**	2CKA001754A4531	10/100
black matt [1])	**1721-885K-500**	2CKA001754A4532	10/100

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	future® linear Cover frame **2gang frame** With small corner radii for trunking systems. Protection class (Device): IP 20 Dimensions: (L x W x D): 151 mm x 80 mm x 11 mm		
anthracite	**1722-181K**	2CKA001754A4241	10
ivory white	**1722-182K**	2CKA001754A4231	10
aluminium silver [1])	**1722-183K-500**	2CKA001754A4530	10/100
studio white	**1722-184K-500**	2CKA001754A4499	10/100
studio white, matt [1])	**1722-884K**	2CKA001754A4415	10
black matt	**1722-885K-500**	2CKA001754A4534	10/100

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	future® linear Cover frame **3gang frame** With small corner radii for trunking systems. Protection class (Device): IP 20 Dimensions: (L x W x D): 222 mm x 80 mm x 11 mm		
anthracite	**1723-181K**	2CKA001754A4242	10
ivory white	**1723-182K**	2CKA001754A4232	10
aluminium silver [1])	**1723-183K-500**	2CKA001754A4533	10/100
studio white	**1723-184K-500**	2CKA001754A4502	10/100
studio white, matt [1])	**1723-884K**	2CKA001754A4416	10
black matt [1])	**1723-885K**	2CKA001754A4421	10/100

[1]) Surface painted.

future® linear
Cover frames

Product	Article-No.	Order-No.	Pack/Qty
	future® linear Cover frame **4gang frame** With small corner radii for trunking systems. Protection class (Device): IP 20 Dimensions: (L x W x D): 293 mm x 80 mm x 11 mm		
anthracite	**1724-181K**	2CKA001754A4243	10
ivory white	**1724-182K**	2CKA001754A4233	10
aluminium silver [1])	**1724-183K**	2CKA001754A4309	10
studio white	**1724-184K**	2CKA001754A4238	10
studio white, matt [1])	**1724-884K**	2CKA001754A4417	10
black matt [1])	**1724-885K**	2CKA001754A4422	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	future® linear Cover frame **5gang frame** With small corner radii for trunking systems. Protection class (Device): IP 20 Dimensions: (L x W x D): 394 mm x 80 mm x 11 mm		
anthracite	**1725-181K**	2CKA001754A4244	1
ivory white	**1725-182K**	2CKA001754A4234	1
aluminium silver [1])	**1725-183K**	2CKA001754A4310	1
studio white	**1725-184K-500**	2CKA001754A4517	1
studio white, matt [1])	**1725-884K**	2CKA001754A4418	1
black matt [1])	**1725-885K**	2CKA001754A4423	1

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**future® linear Cover frame** **1gang frame** With small corner radii for trunking systems. Protection class (Device): IP 20 Dimensions: (L x W x D): 80 mm x 80 mm x 11 mm		
red RAL 3020	**1721-12-182K-101**	2CKA001754A4713	10

Product	Article-No.	Order-No.	Pack/Qty
	**future® linear Cover frame** **2gang frame** With small corner radii for trunking systems. Protection class (Device): IP 20 Dimensions: (L x W x D): 152 mm x 80 mm x 11 mm		
red RAL 3020	**1722-12-182K-101**	2CKA001754A4714	10

Product	Article-No.	Order-No.	Pack/Qty
	**future® linear Cover frame [1])** **1gang frame** With labelling field and label holder. With small corner radii for trunking systems. Protection class (Device): IP 20 Dimensions: (L x W x D): 80 mm x 80 mm x 11 mm		
studio white	**1721-184 NSK-500**	2CKA001754A4527	10/100

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

Product	Article-No.	Order-No.	Pack/Qty
	future® linear Cover frame [1]) **3gang frame** With labelling field and label holder. With small corner radii for trunking systems. Vertical. Protection class (Device): IP 20 Dimensions: (L x W x D): 222 mm x 80 mm x 11 mm		
studio white	**1723-184 NSK**	2CKA001754A4366	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

Product	Article-No.	Order-No.	Pack/Qty
	future® linear Cover frame [1]) **4gang frame** With labelling field and label holder. With small corner radii for trunking systems. Vertical. Protection class (Device): IP 20 Dimensions: (L x W x D): 293 mm x 80 mm x 11 mm		
studio white	**1724-184 NSK**	2CKA001754A4367	1

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

Product	Article-No.	Order-No.	Pack/Qty
	**future® linear Cover frame [1])** **2gang frame** With labelling field and label holder. With small corner radii for trunking systems. Horizontal Protection class (Device): IP 20 Dimensions: (L x W x D): 151 mm x 80 mm x 11 mm		
studio white	**1732-184 NSK**	2CKA001754A4368	10/100

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

Product	Article-No.	Order-No.	Pack/Qty
	**future® linear Cover frame [1])** **3gang frame** With labelling field and label holder. With small corner radii for trunking systems. Horizontal Protection class (Device): IP 20 Dimensions: (L x W x D): 222 mm x 80 mm x 11 mm		
studio white	**1733-184 NSK**	2CKA001754A4369	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

Product	Article-No.	Order-No.	Pack/Qty
	**future® linear Cover frame [1])** **4gang frame** With labelling field and label holder. With small corner radii for trunking systems. Horizontal Protection class (Device): IP 20 Dimensions: (L x W x D): 293 mm x 80 mm x 11 mm		
studio white	**1734-184 NSK**	2CKA001754A4370	1

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

future®
Cover frames

Product	Article-No.	Order-No.	Pack/Qty
	**Cover frame [1])** **1gang frame** With rounded edges and corners. Protection class (Device): IP 20 Dimensions: (L x W x D): 80 mm x 80 mm x 11 mm		
ivory white	**1721-182**	2CKA001754A4168	10/100
studio white	**1721-184-500**	2CKA001754A4504	10/100

[1]) Suitable for installation in trunking systems with 80 mm conduit.

	Cover frame **2gang frame** For vertical or horizontal installation. With rounded edges and corners. Protection class (Device): IP 20 Dimensions: (L x W x D): 151 mm x 80 mm x 11 mm		
ivory white	**1722-182**	2CKA001754A4169	10/100
studio white	**1722-184-500**	2CKA001754A4508	10/100

	**Cover frame** **3gang frame** For vertical or horizontal installation. With rounded edges and corners. Protection class (Device): IP 20 Dimensions: (L x W x D): 222 mm x 80 mm x 11 mm		
ivory white	**1723-182**	2CKA001754A4170	10/100
studio white	**1723-184**	2CKA001754A4175	10/100

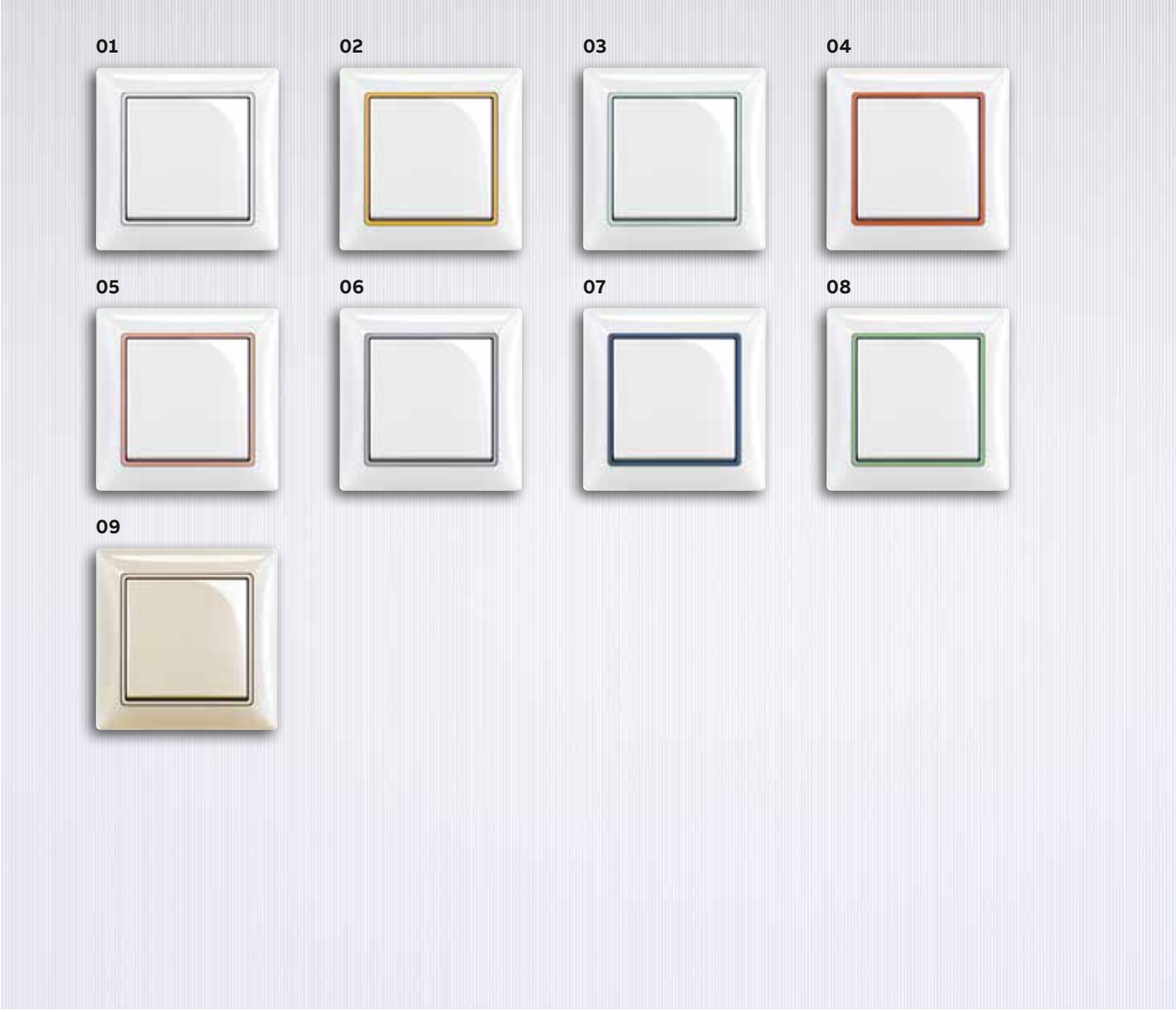
	Cover frame **4gang frame** For vertical or horizontal installation. With rounded edges and corners. Protection class (Device): IP 20 Dimensions: (L x W x D): 293 mm x 80 mm x 11 mm		
ivory white	**1724-182**	2CKA001754A4171	1
studio white	**1724-184**	2CKA001754A4176	1

	Cover frame **5gang frame** For vertical or horizontal installation. With rounded edges and corners. Protection class (Device): IP 20 Dimensions: (L x W x D): 394 mm x 80 mm x 11 mm		
ivory white	**1725-182**	2CKA001754A4172	1
studio white	**1725-184**	2CKA001754A4177	1

basic55®

One concept, numerous possibilities.

Square but still round, white but colourful. A smart concept which inspires the imagination and acknowledges the desire for individual styling. Elements formed into a creative solution. White rockers and frames fine-tuned with discreet colour rings. The concept which makes its own style.



01 alpine white / alpine white
02 alpine white / yellow
03 alpine white / luminous
04 alpine white / orange
05 alpine white / apricot
06 alpine white / silver
07 alpine white / blue
08 alpine white / light green
09 white / white

basic55®

basic55® range has many facets. It fulfils every wish for creative design. Six frame colours can be perfectly combined with two rocker colours to meet individual expectations. Plus the luxurious champagne version as alternative. Thirteen exclusive options for combining puristic design with modern, pleasant colours.



01 chalet-white / chalet-white
02 chalet-white / château-black
03 maison-beige / chalet-white
04 maison-beige / château-black
05 bistro-blue / chalet-white
06 bistro-blue / château-black
07 entrée-grey / chalet-white
08 entrée-grey / château-black
09 foyer-red / chalet-white
10 foyer-red / château-black
11 château-black / chalet-white
12 château-black / château-black
13 champagne

basic55®

Selected functions.

01 

02 

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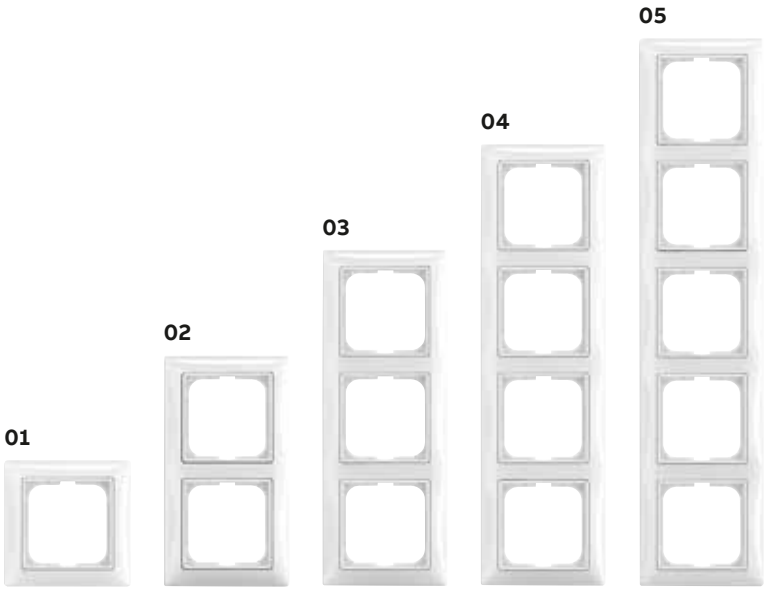
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28 

01 Switch/button with rocker
02 2gang switch
03 2gang switch with neon lamp
04 3gang 1way switch
05 Push switch with doorbell symbol and labeling field
06 Rotary dimmer
07 Push switch with illumination
08 20 A DP switch with red neon indicator
09 Busch-Comfort switch®
10 SCHUKO® socket outlet, shuttered
11 Socket outlet, shuttered with earthing pin
12 SCHUKO® socket outlet with hinged lid
13 SCHUKO® double socket outlet
14 Blind switches/push-buttons
15 Blind switches/push-buttons with rotary knob
16 Comfort timer
17 Card switch
18 Room temperature controller
19 Antenna socket
20 Antenna socket for TV
21 Antenna socket for Radio/TV/SAT
22 Light signal
23 USB power adapter insert, USB A & C
24 Loudspeaker outlet
25 Telephone Single Outlet (TAE)
26 Universal data connecting unit
27 Universal data connecting unit, 2gang
28 Loudspeaker

basic55®

Selected functions.



1 to 5gang cover frame for horizontal and vertical installation.

01 84 mm x 84 mm
02 84 mm x 155 mm
03 84 mm x 226 mm
04 84 mm x 297 mm
05 84 mm x 368 mm



For more information about light switch ranges visit ABB global web sites.

basic55®

Switches / push-buttons

Product	Article-No.	Order-No.	Pack/Qty
	**Switch with rocker breaking circuit, 1-pole** Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W IEC 60669-1		
white	**2006/1 UC-92-507**	2CKA001012A2146	10/100
champagne	**2006/1 UC-93-507**	2CKA001012A2164	10/100
alpine white	**2006/1 UC-94-507**	2CKA001012A2139	10/100
château-black	**2006/1 UC-95-507**	2CKA001012A2174	10
chalet-white	**2006/1 UC-96-507**	2CKA001012A2184	10/100
	**Switch with rocker breaking circuit, 1-pole** With neon lamp. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W IEC 60669-1		
white	**2006/1 UCGL-92-507**	2CKA001012A2156	10/100
champagne	**2006/1 UCGL-93-507**	2CKA001012A2165	10
alpine white	**2006/1 UCGL-94-507**	2CKA001012A2153	10/100
château-black	**2006/1 UCGL-95-507**	2CKA001012A2175	10
chalet-white	**2006/1 UCGL-96-507**	2CKA001012A2185	10
	**Switch with rocker 1gang 2way** Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W IEC 60669-1		
white	**2006/6 UC-92-507**	2CKA001012A2149	10/100
champagne	**2006/6 UC-93-507**	2CKA001012A2169	10/100
alpine white	**2006/6 UC-94-507**	2CKA001012A2142	10/100
château-black	**2006/6 UC-95-507**	2CKA001012A2179	10/100
chalet-white	**2006/6 UC-96-507**	2CKA001012A2189	10/100
	**Switch with rocker 2gang 1way** Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W IEC 60669-1		
white	**2006/5 UC-92-507**	2CKA001012A2148	10/100
champagne	**2006/5 UC-93-507**	2CKA001012A2167	10/100
alpine white	**2006/5 UC-94-507**	2CKA001012A2141	10/100
château-black	**2006/5 UC-95-507**	2CKA001012A2177	10/100
chalet-white	**2006/5 UC-96-507**	2CKA001012A2187	10/100

Product	Article-No.	Order-No.	Pack/Qty
	**Switch with rocker 2gang 1way** With neon lamp. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W IEC 60669-1		
white	**2006/5 UCGL-92-507**	2CKA001012A2157	10/100
champagne	**2006/5 UCGL-93-507**	2CKA001012A2168	10
alpine white	**2006/5 UCGL-94-507**	2CKA001012A2154	10/100
château-black	**2006/5 UCGL-95-507**	2CKA001012A2178	10
chalet-white	**2006/5 UCGL-96-507**	2CKA001012A2188	10
	**Switch with rocker 2gang 2way** Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W IEC 60669-1		
white	**2006/6/6 UC-92-507**	2CKA001012A2151	10
champagne	**2006/6/6 UC-93-507**	2CKA001012A2171	10
alpine white	**2006/6/6 UC-94-507**	2CKA001012A2144	10/100
château-black	**2006/6/6 UC-95-507**	2CKA001012A2181	10
chalet-white	**2006/6/6 UC-96-507**	2CKA001012A2191	10
	**Switch with rocker 3gang 1way, SP** Rated voltage: 250 V~ Rated current: 16 AXIEC 60669-1		
white	**106/3/1 UC-92-507**	2CKA001012A2158	10/100
champagne	**106/3/1 UC-93-507**	2CKA001012A2163	10
alpine white	**106/3/1 UC-94-507**	2CKA001012A2155	10/100
château-black	**106/3/1 UC-95-507**	2CKA001012A2173	10
chalet-white	**106/3/1 UC-96-507**	2CKA001012A2183	10
	**Switch with rocker 1gang** Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W IEC 60669-1		
white	**2006/7 UC-92-507**	2CKA001012A2152	10
champagne	**2006/7 UC-93-507**	2CKA001012A2172	10
alpine white	**2006/7 UC-94-507**	2CKA001012A2145	10
château-black	**2006/7 UC-95-507**	2CKA001012A2182	10
chalet-white	**2006/7 UC-96-507**	2CKA001012A2192	10

basic55®

Switches / push-buttons

Product	Article-No.	Order-No.	Pack/Qty
	**Switch with rocker** **1gang DP** With neon lamp. Rated voltage: 250 V~ Rated current: 20 A Suitable for: LEDi / CFLi Rated power: 250 W IEC 60669-1		
white	**1020/2 UCK-92-507**	2CKA001020A0090	1
champagne	**1020/2 UCK-93-507**	2CKA001020A0091	10
alpine white	**1020/2 UCK-94-507**	2CKA001020A0089	1
château-black	**1020/2 UCK-95-507**	2CKA001020A0092	10
chalet-white	**1020/2 UCK-96-507**	2CKA001020A0093	10
	**Switch with rocker** [1] [2] **1gang 2way with N-terminal** With neon lamp. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W IEC 60669-1		
white	**2006/6 UCK-92-507**	2CKA001012A2150	10
champagne	**2006/6 UCK-93-507**	2CKA001012A2170	10
alpine white	**2006/6 UCK-94-507**	2CKA001012A2143	10
château-black	**2006/6 UCK-95-507**	2CKA001012A2180	10
chalet-white	**2006/6 UCK-96-507**	2CKA001012A2190	10

[1] With 1 mA neon lamp.
[2] Illuminable by using lamps 8360, 8362, 8363, 8365, 8366, and 8367 and LED inserts.

Product	Article-No.	Order-No.	Pack/Qty
	**Push switch with rocker** **SP, with normally open contact (operating current)** With N terminal. Rated voltage: 250 V~ Rated current: 10 AIEC 60669-1		
white	**2026 UC-92-507**	2CKA001413A1083	10/100
champagne	**2026 UC-93-507**	2CKA001413A1091	10/100
alpine white	**2026 UC-94-507**	2CKA001413A1080	10/100
château-black	**2026 UC-95-507**	2CKA001413A1095	10
chalet-white	**2026 UC-96-507**	2CKA001413A1099	10
	**Push switch with rocker** **with doorbell symbol and labeling field** SP (operating current), With N terminal. Secondary: 250 V- Rated current: 10 AIEC 60669-1		
white	**2026 UCN/KL-92-507**	2CKA001413A1087	10/100
champagne	**2026 UCN/KL-93-507**	2CKA001413A1093	10
alpine white	**2026 UCN/KL-94-507**	2CKA001413A1086	10/100
château-black	**2026 UCN/KL-95-507**	2CKA001413A1097	10
chalet-white	**2026 UCN/KL-96-507**	2CKA001413A1101	10

Product	Article-No.	Order-No.	Pack/Qty
	**Push switch with rocker and neutral symbol** **SP, with normally open contact (operating current)** With N terminal. Rated voltage: 250 V~ Rated current: 10 AIEC 60669-1		
white	**2026 UCN-92-507**	2CKA001413A1084	10/100
champagne	**2026 UCN-93-507**	2CKA001413A1092	10/100
alpine white	**2026 UCN-94-507**	2CKA001413A1081	10
château-black	**2026 UCN-95-507**	2CKA001413A1096	10
chalet-white	**2026 UCN-96-507**	2CKA001413A1100	10
	**Card switch 10 A** [1] **SP, with normally open contact (operating current)** Illuminable. With N terminal. Rated voltage: 250 V~ Rated current: 10 A Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 20IEC60669-1, British Standard EN 60669-1		
	2025 U	2CKA001012A1713	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
delivery form:	Adapter plate APBS to be ordered separate.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** [1] For card switch. For insert 2025 U. Suitable for cards sized 54 x 86 mm. The inner part of the cover plate is made of light-conducting plastic, so that the card slot is illuminated.		
white	**1792-92-507**	2CKA001710A3865	10
champagne	**1792-93-507**	2CKA001710A3929	10
alpine white	**1792-94-507**	2CKA001710A3864	10
château-black	**1792-95-507**	2CKA001710A3933	10
chalet-white	**1792-96-507**	2CKA001710A3937	10

[1] Due to dimensions cover is suitable in cover frames without decorative styling frame only.

basic55®

Switches / push-buttons

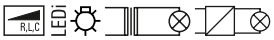
Product	Article-No.	Order-No.	Pack/Qty
	**Switch 2gang 1way with rocker, IP44** The IP44 protection level will achieved only if the device is mounted on a flat and napless wall. With screwless terminals. Rated voltage: 250 V~ Rated current: 10 AX		
white	**3521B-A05945 92**	2CHB210599A4092	10
champagne	**3521B-A05945 93**	2CHB210599A4093	10
alpine white	**3521B-A05945 94**	2CHB210599A4094	10
château-black	**3521B-A05945 95**	2CHB210599A4095	10
	**Switch 1gang 2way with rocker, IP44** The IP44 protection level will achieved only if the device is mounted on a flat and napless wall. With screwless terminals. Rated voltage: 250 V~ Rated current: 10 AX		
white	**3521B-A06945 92**	2CHB210699A4092	10
champagne	**3521B-A06945 93**	2CHB210699A4093	10
alpine white	**3521B-A06945 94**	2CHB210699A4094	10
château-black	**3521B-A06945 95**	2CHB210699A4095	10
	**Switch 1gang Intermediate with rocker, IP44** The IP44 protection level will achieved only if the device is mounted on a flat and napless wall. With screwless terminals. Rated voltage: 250 V~ Rated current: 10 AX		
white	**3521B-A07945 92**	2CHB210799A4092	10
champagne	**3521B-A07945 93**	2CHB210799A4093	10
alpine white	**3521B-A07945 94**	2CHB210799A4094	10
château-black	**3521B-A07945 95**	2CHB210799A4095	10
	**Switch 2gang 1way, with N-Terminal with rocker, IP44** The IP44 protection level will achieved only if the device is mounted on a flat and napless wall. With screwless terminals. Rated voltage: 250 V~ Rated current: 10 AX		
white	**3521B-A81945 92**	2CHB218199A4092	10
champagne	**3521B-A81945 93**	2CHB218199A4093	10
alpine white	**3521B-A81945 94**	2CHB218199A4094	10
château-black	**3521B-A81945 95**	2CHB218199A4095	10
	**Push Switch 1gang 2way with rocker, IP44** The IP44 protection level will achieved only if the device is mounted on a flat and napless wall. With screwless terminals. Rated voltage: 250 V~ Rated current: 10 A		
white	**3521B-A89945 92**	2CHB218699A4092	10
champagne	**3521B-A89945 93**	2CHB218699A4093	10
alpine white	**3521B-A89945 94**	2CHB218699A4094	10
château-black	**3521B-A89945 95**	2CHB218699A4095	10

Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-rotary dimmer [1] [2] [3] [4] [5] [6] [7] [8] [9]** **UP, LED, 2-400 W** Very small installation depth: < 20 mm Without claws. With rotary control, two-way switch and soft-catch. 2-wire connection (neutral conductor not required) Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. With manually adjustable operating mode: trailing / leading edge control. With adjustable minimum/maximum brightness. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. Without cover plate. Rated voltage: 230 V~, + 10% / - 10% Rated frequency: 50 Hz/60 Hz Nominal power: 2 - 100 W/VA (leading edge control) Nominal power: 2 - 400 W/VA (trailing edge control) Protection class (Device): IP 20 Temperature range (Device): 0 °C to 35 °CIEC 60669-2-1, British Standard EN 60669-2-1 		
	6523 UR-103-500	2CKA006512A0345	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] In case of electronic transformers, 5 % transformer losses.
[4] Also applicable for 1gang 2way installations.
[5] Provided with terminal for net disconnection devices.
[6] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[7] Recommendation: Please use loads and types of one producer.
[8] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[9] A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

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Dimmers

Product	**Article-No.**	Order-No.	Pack/Qty
	**Busch-rotary dimmer** [1] [2] [3] [4] [5] [6] [7] [8] [9] **Flush-mounted, LED, 2-100 W** With rotary control, two-way switch and soft-catch. 2-wire connection (neutral conductor not required) Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. Via mode switch adjustable between leading edge control and trailing edge control. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. With adjustable minimum brightness. Without cover plate. Rated voltage: 230 V~, + 10% / - 10% Rated frequency: 50 Hz/60 Hz Nominal power: 2 - 100 W/VA (retrofit LED loads). Nominal power: 10 - 250 W/VA (non-LED loads). Protection class (Device): IP 20 Temperature range (Device): 0 °C to 35 °CIEC 60669-2-1, British Standard EN 60669-2-1 		
	6523 U-102-500	2CKA006512A0335	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] In case of electronic transformers, 5 % transformer losses.
[4] Also applicable for 1gang 2way installations.
[5] Provided with terminal for net disconnection devices.
[6] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[7] Recommendation: Please use loads and types of one producer.
[8] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[9] A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

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Product	Article-No.	Order-No.	Pack/Qty
 END OF LIFE	**Busch-rotary dimmer [1] [2] [3] [4]** **flush mounted, R, 60-600 W** With rotary control, 2way On-Off switching and soft-catch. Leading Edge control. For incandescent lamps and 230 V tungsten halogen lamps. With adjustable minimum brightness. Without cover plate. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Rated power: 60 - 600 W IEC 60669-2-1, British Standard EN 60669-2-1		
	2250 U-500	2CKA006515A0848	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] Also applicable for 1gang 2way installations.
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Provided with terminal for net disconnection devices.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-rotary dimmer [1] [2] [3] [4] [5]** **flush mounted, RL, 20-500 W** With rotary control, 2way On-Off switching and soft-catch. Leading Edge control. For incandescent lamps, 230 V tungsten halogen lamps and low-volt halogen lamps with conventional transformer. With adjustable minimum brightness. Without cover plate. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Rated power: 20 - 500 W/VA IEC 60669-2-1, British Standard EN 60669-2-1		
	2247 U-500	2CKA006512A0302	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] Provided with terminal for net disconnection devices.
[4] Also applicable for 1gang 2way installations.
[5] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-rotary dimmer [1] [2] [3] [4] [5] [6]** **UP, RL, 200-700 W** With rotary control, 2way On-Off switching and soft-catch. Leading Edge control. For incandescent lamps, 230 V tungsten halogen lamps and low-volt halogen lamps with conventional transformer. Short-circuit-proof, overload-protected. With adjustable minimum brightness. Without cover plate. Without claws. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Rated power: 200 - 700 W/VA IEC 60669-2-1, British Standard EN 60669-2-1		
	6520 U-500	2CKA006520A0227	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] Provided with terminal for net disconnection devices.
[4] Also applicable for 1gang 2way installations.
[5] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[6] Should be mounted in a seperate wallbox.

Product	Article-No.	Order-No.	Pack/Qty
 END OF LIFE	**Busch-rotary dimmer [1] [2] [3] [4] [5] [6]** **flush mounted, RC, 40-420 W** With rotary control, soft-catch and with trailing edge control. For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with electronic transformers. Low-noise, short-circuit-proof, overload-protected. Without cover plate. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Rated power: 40 - 420 W/VA IEC 60669-2-1, British Standard EN 60669-2-1		
	6513 U-102-500	2CKA006513A0586	1/10

[1] Not suitable with conventional transformers.
[2] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[3] In case of electronic transformers, 5 % transformer losses.
[4] Provided with terminal for net disconnection devices.
[5] Also applicable for 1gang 2way installations.
[6] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

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Dimmers

Product	Article-No.	Order-No.	Pack/Qty



END OF LIFE

Busch-rotary dimmer [1] [2] [3] [4] [5]
flush mounted, RLC, 60-420 W
with soft-catch
With intelligence for universal operation.
For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers.
Short-circuit-proof, overload-protected.
Capacity expansion via output-side, parallel connectable load line with a power module 6594 U up to 735 W/VA possible. Operation via rotary-type remote control 6592 U possible, Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Rated power: 60 - 420 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1



6591 U-101-500	2CKA006513A0588	1/10

[1] Illuminable with neon lamp 3855. Neon lamp included in delivery with cover plate.
[2] In case of electronic transformers, 5 % transformer losses.
[3] In the case of conventional transformers, take ~20% transformer loss into account.
[4] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[5] Cannot be combined with a 2way switch.



END OF LIFE

Busch-rotary dimmer, extension [1] [2]
flush mounted
for connection to 6591 U-101,
To be used with Busch-Dimmer®, MDRC 6583.
with soft-catch
A maximum of 5 multi-way extensions can be connected to a 6591U-101,
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz



6592 U-500	2CKA006513A0590	1

[1] Control elements 2115-xxx and 6540-xxx.
[2] Required for illuminating the N-connection control element.



Busch-rotary dimmer [1] [2] [3] [4]
flush mounted, 1-10V
With rotary control.
For controlling ballast units for fluorescent lamps with control output 1-10 V DC, control current max. 50 mA DC.
For LED control via control gears
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Rated power: 700 W/VA
IEC 60669-2-1, British Standard EN 60669-2-1

2112 U-101-500	2CKA006599A2873	1/10

[1] Non-illuminable.
[2] Use cover plates 2115 J-.../2115-.../6540-... .
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Making-current limiters have to be provided in case of too high making currents.

Product	Article-No.	Order-No.	Pack/Qty



Busch-rotary dimmer [1]
Flush-mounted, DALI, tunable white
For DALI broadcast service (via central telegram).
For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface.
With rotary control and ON/OFF push operation.
Fool proved.
For changing the colour temperature of >tunable white< lamps, which meet DALI Standard IEC 62386-209 (Device Type 8).
Colour temperature can then be set between 2,700 K - 6,500 K.
Brightness power-on level and backround brightness level adjustable, buffered.
With integrated LED illumination for orientation.
Color of orientation light adjustable (18 presets and OFF).
Up to 5 potentiometers are connectable in parallel.
Max. current consumption: 15 mA.
Not suitable for combining with other DALI sensors or central units of other manufacturers.
For the generation of the DALI voltage a power supply according to IEC 62386 is required; e.g. from Tridonic, Philips, Helvar or BJE article no. 2116/11 U.
Max. DALI-cable length: 300 m (1,5 - 2,5 mm²).
Without cover plate.
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °C

2116 U	2CKA006599A3025	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

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Product	Article-No.	Order-No.	Pack/Qty



Busch-rotary dimmer [1])
Flush-mounted, DALI, with internal power supply, tunable white
For DALI broadcast service (via central telegram).
With integrated DALI power adaptor.
For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface.
With rotary control and ON/OFF push operation.
For changing the colour temperature of >tunable white< lamps, which meet DALI Standard IEC 62386-209 (Device Type 8).
Colour temperature can then be set between 2,700 K - 6,500 K.
With electronic short-circuit protection.
With electronic overload protection.
Brightness power-on level and backround brightness level adjustable, buffered.
With integrated LED illumination for orientation.
Color of orientation light adjustable (18 presets and OFF).
Up to 5 potentiometers are connectable in parallel.
Up to 3 potentiometers are connectable in parallel in active mode.
Not suitable for combining with other DALI sensors or central units of other manufacturers.
DALI-voltage: 15,5 V=
Rated current: max. 75 mA
Power consumption: < 2,5 W
Number of DALI-units:
37 in case of one active power-potentiometer
in case of three active power-potentiometer in parallel connection: 111
Active mode: the potentiometer is supporting the necessary control circuit for other DALI-devices.
Passive mode: the potentiometer is suitable as additional operation point.
Max. DALI-cable length: 300 m (1,5 - 2,5 mm²).
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °C

	2116/11 U	2CKA006599A3026	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty



Busch-rotary dimmer [1])
flush mounted, DALI
For DALI broadcast service (via central telegram).
For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface.
With rotary control and ON/OFF push operation.
Fool proved.
Brightness power-on level and backround brightness level adjustable, buffered.
With integrated LED illumination for orientation.
Color of orientation light adjustable (18 presets and OFF).
Up to 5 potentiometers are connectable in parallel.
Max. current consumption: 15 mA.
Not suitable for combining with other DALI sensors or central units of other manufacturers.
An additional DALI power supply is needed, e.g. by Tridonic, Philips, Helvar or 2117/11 U.
Max. DALI-cable length: 300 m (1,5 - 2,5 mm²).
Without cover plate.
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °C

	2117 U-500	2CKA006599A2987	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)



Busch-rotary dimmer [1])
flush mounted, DALI, with internal power supply
For DALI broadcast service (via central telegram).
With integrated DALI power adaptor.
For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface.
With rotary control and ON/OFF push operation.
With electronic short-circuit protection.
With electronic overload protection.
Brightness power-on level and backround brightness level adjustable, buffered.
With integrated LED illumination for orientation.
Color of orientation light adjustable (18 presets and OFF).
Up to 5 potentiometers are connectable in parallel.
Up to 3 potentiometers are connectable in parallel in active mode.
Not suitable for combining with other DALI sensors or central units of other manufacturers.
DALI-voltage: 15,5 V=
Rated current: max. 75 mA
Power consumption: < 2,5 W
Number of DALI-units:
37 in case of one active power-potentiometer
in case of three active power-potentiometer in parallel connection: 111
Active mode: the potentiometer is supporting the necessary control circuit for other DALI-devices.
Passive mode: the potentiometer is suitable as additional operation point.
Max. DALI-cable length: 300 m (1,5 - 2,5 mm²).
Without cover plate.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 35 °C

	2117/11 U-500	2CKA006599A2988	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

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Product	Article-No.	Order-No.	Pack/Qty
	**Busch-rotary dimmer [1] [2] [3] [4]** **flush mounted, R, 60-600 W** With rotary control, 2way On-Off switching and soft-catch. Leading Edge control. For incandescent lamps and 230 V tungsten halogen lamps. With adjustable minimum brightness. Without cover plate. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Rated power: 60 - 600 W IEC 60669-2-1, British Standard EN 60669-2-1 		
	2250 U-507	2CKA006515A0840	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] Also applicable for 1gang 2way installations.
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Provided with terminal for net disconnection devices.

	**Busch-touch dimmer [1] [2] [3] [4]** **flush mounted, RLC, 60-420 W** With light-level memory and intelligence for universal operation. Selectable Soft-ON/OFF function and memory function. Capacity expansion via output-side, parallel connectable load line with a power module 6594 U up to 735 W/VA possible. For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers. Short-circuit-proof, overload-protected. With touch control. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Without control cover. For control cover with control lamp 6543-xxx-10x. For Busch-Remote control IR control cover 6066-xxx-10x. For comfort timer control element 6455-101-500. For Busch-Watchdog 180 flush-mounted Sensor Standard 6810-21x-101. For Busch-Watchdog 180 flush-mounted sensor Comfort II 6800-xxx-104 and 6800-xxx-104M. For Busch-Watchdog Presence tech 6813-xxx-101 und 6813/11-xxx. Combinable with Busch-Watchdog extension insert 6805 U. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Rated power: 60 - 420 W Rated power: 60 - 420 W/VA IEC 60669-2-1, British Standard EN 60669-2-1 		
	6593 U-500	2CKA006590A0171	1/10

[1] In the case of conventional transformers, take ~20% transformer loss into account.
[2] In case of electronic transformers, 5 % transformer losses.
[3] In conjunction with 6800-xxx-104 (M) a Soft Off can be adjusted.
[4] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Dimmer®, capacity booster [1]** **flush mounted, RLC, 200-315 W** The control is effected by a Busch-Universal master dimmer 6593 U or Busch-Universal rotary dimmer 6591U-101 For incandescent lamps, 230 V tungsten halogen lamps and low-voltage halogen lamps with conventional transformers or electronic transformers. Can only be installed in conjunction with a cover plate 2114-xxx and 6541-xxx. Without cover plate. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Rated power: 200 - 315 W/VA IEC 60669-2-1, British Standard EN 60669-2-1 		
	6594 U-500	2CKA006590A0172	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

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Product	Article-No.	Order-No.	Pack/Qty
 END OF LIFE	**Busch Dimmer® with cover plate** With rotary control, 2way On-Off switching and soft-catch. Leading Edge control. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Rated power: 60 - 400 W IEC 60669-2-1		
white	**2251 UCGL-92-507**	2CKA006515A0843	1/10
champagne	**2251 UCGL-93-507**	2CKA006515A0845	1/10
alpine white	**2251 UCGL-94-507**	2CKA006515A0842	1/10
château-black	**2251 UCGL-95-507**	2CKA006515A0846	1/10
chalet-white	**2251 UCGL-96-507**	2CKA006515A0847	1/10
	**Cover plate [1]** **with rotary knob, with indication lamp** For Busch-Dimmer®. For inserts 2112 U-101/2247 U/2250 U/6513 U-102/6517 U-10x/ 6519 U/6520 U/6523 U(R)(10x) /6591 U-10x and 6592 U.		
white	**2115-92-507**	2CKA006599A2929	10
champagne	**2115-93-507**	2CKA006599A2990	10
alpine white	**2115-94-507**	2CKA006599A2928	10
château-black	**2115-95-507**	2CKA006599A2991	10
chalet-white	**2115-96-507**	2CKA006599A2992	10

[1] Replacement neon lamp, Art. No. 3855.

Product	Article-No.	Order-No.	Pack/Qty
	**Control element [1] [2] [3]** **with neon lamp** Can be combined with LED dimmer 6524 U, and 6526 U, Busch-Universal touch-type controller 6550 U-10x, Busch-Memory touch dimmer 6560 U-101, Busch-Universal-Dimmer® 6593 U, Busch-Universal relay insert 6401 U-10x, Busch-Universal 2gang insert 6402 U.		
white	**6543-92-507**	2CKA006599A2996	1/10
champagne	**6543-93-507**	2CKA006599A2993	1/10
alpine white	**6543-94-507**	2CKA006599A2997	1/10
château-black	**6543-95-507**	2CKA006599A2994	1/10
chalet-white	**6543-96-507**	2CKA006599A2995	1/10

[1] Compatible with previous type 6543-xxx.
[2] Touch-type Controller 6550 U-xxx non-illuminable.
[3] Replacement neon lamp 3857.

Product	Article-No.	Order-No.	Pack/Qty
	**LED dimmer insert flex, 1gang [1] [2] [3] [4] [5] [6] FM, LED, 3-240 VA** 2-wire connection (neutral conductor not required).Neutral conductor optionally connectable (recommended for the connection of low loads < 10 W/VA). Touch dimmer for switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. With manually adjustable operating mode: trailing / leading edge control. With adjustable minimum brightness. With light-level memory and minimum brightness memory. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. Without control cover. For control element flex, 1gang, 64711. For control element flex, 2gang, 64721. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Rated power: 3-240 VA (LEDi). Rated voltage: 230 V~, +10 % / -10 %. Rated frequency: 50 Hz. Inputs: 1. Outputs: 1x dimming channel. Suitable for: 230 V LEDi, typical (leading edge control). Rated power: 3 - 100 VA. Suitable for: 230 V LEDi, typical (trailing edge control). Rated power: 3 - 240 W. Suitable for: 230 V incandescent lamps, 230 V halogen lamps and low-voltage halogen lamps with conventional transformers or Busch Electronic Transformer. Rated power: 10 - 240 VA.Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm. Mounting depth: 25 mmIEC 60669-2-1, British Standard EN 60669-2-1		
	64851 U-500	2CKA006500A0013	1

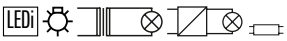
[1] In the case of conventional transformers, take ~20% transformer loss into account.
[2] In case of electronic transformers, 5 % transformer losses.
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Recommendation: Please use loads and types of one producer.
[5] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[6] A liability on the part of Buscah-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

	**Control element, 1 gang flex** Tapping control element, 1gang. Compatible with all free@home flex inserts. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64711-500	2CKA006400A0099	1
	**Control element, 1 gang, flex wireless** Tapping control element, 1gang. For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62711-WL-500	2CKA006200A0281	1

basic55®
Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**Flex control element, 2 gang flex** Tapping control element, 2gang For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64721-500	2CKA006400A0101	1
	**Control element, 2 gang, flex wireless** Tapping control element, 2gang For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@ home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62721-WL-500	2CKA006200A0283	1
	**Rocker** **1gang, with “Dimmer” icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
white	SRD-1-92	2CKA006220A0639	1
champagne	SRD-1-93	2CKA006220A0656	1
alpine white	SRD-1-94	2CKA006220A0673	1
chateau-black	SRD-1-95	2CKA006220A0690	1
	**Rocker** **2gang left, with “Dimmer” icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
white	SRD-2-L-92	2CKA006220A0644	1
champagne	SRD-2-L-93	2CKA006220A0661	1
alpine white	SRD-2-L-94	2CKA006220A0678	1
chateau-black	SRD-2-L-95	2CKA006220A0695	1
	**Rocker** **2gang right, with “Scene” icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
white	SRS-2-R-92	2CKA006220A0647	1
champagne	SRS-2-R-93	2CKA006220A0664	1
alpine white	SRS-2-R-94	2CKA006220A0681	1
chateau-black	SRS-2-R-95	2CKA006220A0698	1

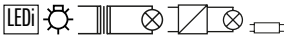
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Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Relay insert flex, 1gang [1])** 3 wire connection (neutral conductor required). For switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Comfort switch flex control element 64765-... . For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with extension insert, 64891 U. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 1 Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V- LEDi, typical. Rated power: 300 VA Suitable for: 230 V incandescent lamps/230 V halogen lamps Rated power: 2300 W Suitable for: Low voltage halogen lamps that are operated via transformers. Rated power: 2300 VA Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm Mounting depth: 25 mm 		
	64811 U-500	2CKA006800A3042	1/10

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

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Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Relay insert flex, 2gang [1]** 3 wire connection (neutral conductor required). For switching lighting systems. For switching two independent load circuits. For controlling light and ventilation systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Comfort switch flex control element 64765-... . For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with extension insert, 64891 U. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 2 Outputs: 2x Normally open contact, potential-bound Suitable for: 230 V- LEDi, typical. Rated power: 300 VA Suitable for: 230 V incandescent lamps/230 V halogen lamps Rated power: 1840 W Suitable for: Low voltage halogen lamps that are operated via transformers. Rated power: 1150 VA Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm Mounting depth: 25 mm 		
	64821 U-500	2CKA006800A3045	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

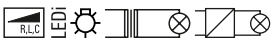
Product	Article-No.	Order-No.	Pack/Qty
	**e-contact insert flex, 1gang [1] [2]** 2-wire connection (neutral conductor not required) Neutral conductor optionally connectable (recommended for the connection of low loads < 10 W/VA). For switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with extension insert, 64891 U. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 1 Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V- LEDi, typical. Rated power: 3 - 240 VA Suitable for: 230 V incandescent lamps/230 V halogen lamps Rated power: 10 - 240 W Suitable for: Low voltage halogen lamps that are operated via transformers. Rated power: 3 - 240 VA Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm Mounting depth: 25 mm 		
	64814 U-500	2CKA006800A3048	1

[1] Use only dimmable high-voltage LEDs.

[2] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

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Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**LED dimmer insert flex, 1gang [1] [2] [3] [4] [5] [6] FM, LED, 3-240 VA** 2-wire connection (neutral conductor not required). Neutral conductor optionally connectable (recommended for the connection of low loads < 10 W/VA). Touch dimmer for switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. With manually adjustable operating mode: trailing / leading edge control. With adjustable minimum brightness. With light-level memory and minimum brightness memory. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. Without control cover. For control element flex, 1gang, 64711. For control element flex, 2gang, 64721. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Rated power: 3-240 VA (LEDi). Rated voltage: 230 V~, +10 % / -10 %. Rated frequency: 50 Hz. Inputs: 1. Outputs: 1x dimming channel. Suitable for: 230 V LEDi, typical (leading edge control). Rated power: 3 - 100 VA. Suitable for: 230 V LEDi, typical (trailing edge control). Rated power: 3 - 240 W. Suitable for: 230 V incandescent lamps, 230 V halogen lamps and low-voltage halogen lamps with conventional transformers or Busch Electronic Transformer. Rated power: 10 - 240 VA. Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm. Mounting depth: 25 mmIEC 60669-2-1, British Standard EN 60669-2-1 		
	64851 U-500	2CKA006500A0013	1

[1] In the case of conventional transformers, take ~20% transformer loss into account.
[2] In case of electronic transformers, 5 % transformer losses.
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Recommendation: Please use loads and types of one producer.
[5] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[6] A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

	**Extension insert flex [1]** 3 wire connection (neutral conductor required). For the extension of the Busch-Comfort switch or presence detector installations. For group control of flex inserts via extension unit communication. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with all flex inserts. Rated voltage: 230 V~, +10 % / -10 %. Rated frequency: 50 Hz. Control/Signal outputs: 1, electronic output, potential-bound. Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm. Mounting depth: 25 mm		
	64891 U-500	2CKA006800A3051	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	Comfort switch flex sensor Movement detector push-button switch combination. For switching lighting systems that depend on brightness and movement. Push switch function possible at all times. Extension of the detection range by means of master/slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. Adjustable operating mode: automatic mode, automatic (motion-controlled) switch-on and switch-off. Adjustable operating mode: semiautomatic, manual switch-on, automatic (timer and movement-controlled) switch-off. Adjustable operating mode: automatic mode, automatic switch-on, manual switch-off. With continuous light/continuous Off function. Adjusting elements on rear side. Surveillance density: 9 sectors with 28 switching segments. Switch-off delay: 1 to 10 min., adjustable. Compatible with all free@home flexTronics inserts. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Please order the respective flush-mounted insert separately. The range specifications refer only to an ambient temperature of 21°C.		
	64765-92-507	2CKA006800A2903	
	64765-93-507	2CKA006800A2904	
	64765-94-507	2CKA006800A2905	
	64765-95-507	2CKA006800A2906	
	64765-96-507	2CKA006800A2907	

	**Busch-Watchdog 180 flex, basic sensor [1] [2] with select-lens** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Compatible with all free@home flex inserts. Adjusting elements on rear side. Extension of the detection range by means of master/slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. With detection display in test mode. Surveillance density: 14 sectors with 56 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 22 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Detection range: frontal: 12 m, lateral: 12 m, Mounting height: 1.1 m Detection angle: 180 ° Brightness limit value: 5 Lux - 500 Lux Up to daytime operation Mounting height: 0.8 m - 1.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 56 mm x 56 mm x 35 mm			
white	**64761-92-507**	2CKA006800A2941	1	
champagne [3]	**64761-93-507**	2CKA006800A2942	1	
alpine white	**64761-94-507**	2CKA006800A2943	1	
château-black	**64761-95-507**	2CKA006800A2944	1	
chalet-white	**64761-96-507**	2CKA006800A2945	1	

[1] Please order the respective flush-mounted insert separately.
[2] The range specifications refer only to an ambient temperature of 21°C.
[3] Surface painted.

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Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flex, comfort sensor [1] [2] with select-lens** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Push switch function possible at all times. In combination with dimmer insert flex: dimming function of lighting and selectable light value storage. With enabling of pre-warning of switch-off for stairwell operation. Compatible with all free@home flex inserts. Adjusting elements on rear side. Extension of the detection range by means of master/ slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. With continuous light/continuous Off function. With detection display in test mode. Surveillance density: 14 sectors with 56 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 22 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Detection range: frontal: 12 m, lateral: 12 m, Mounting height: 1.1 m Detection angle: 180 ° Brightness limit value: 5 Lux - 500 Lux Up to daytime operation Mounting height: 0.8 m - 1.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 55 mm x 55 mm x 35 m		
white	**64762-92-507**	2CKA006800A2978	1
champagne [3]	**64762-93-507**	2CKA006800A2979	1
alpine white	**64762-94-507**	2CKA006800A2980	1
château-black	**64762-95-507**	2CKA006800A2981	1
chalet-white	**64762-96-507**	2CKA006800A2982	1

[1] Please order the respective flush-mounted insert separately.
[2] The range specifications refer only to an ambient temperature of 21°C.
[3] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flex, comfort sensor [1] [2] with multi-lens** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Push switch function possible at all times. For detection down to the floor. For detection in stairwells. With 4 detection levels. In combination with dimmer insert flex: dimming function of lighting and selectable light value storage. With enabling of pre-warning of switch-off for stairwell operation. Compatible with all free@home flex inserts. Adjusting elements on rear side. Multi-lens: suitable also for mounting heights of 2.20 m. Extension of the detection range by means of master/ slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. With continuous light/continuous Off function. With detection display in test mode. Surveillance density: 54 sectors with 224 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 31 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Detection range: frontal: 8 m, lateral: 7 m, Mounting height: 1.1 m Detection range 2: frontal: 8 m, lateral: 8 m, Mounting height: 2.2 m Detection angle: 180 ° Brightness limit value: 5 Lux - 500 Lux Up to daytime operation Mounting height: 0.8 m - 1.2 m alternative: 2.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 55 mm x 55 mm x 45 mm		
white	**64764-92-507**	2CKA006800A3015	1
champagne [3]	**64764-93-507**	2CKA006800A3016	1
alpine white	**64764-94-507**	2CKA006800A3017	1
château-black	**64764-95-507**	2CKA006800A3018	1
chalet-white	**64764-96-507**	2CKA006800A3019	1

[1] Please order the respective flush-mounted insert separately.
[2] The range specifications refer only to an ambient temperature of 21°C.
[3] Surface painted.

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Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Blind switch with cover [1]) SP, switch** With interlock. Rated voltage: 250 V~ Rated current: 10 AXIEC60669-1		
white	**2006/4 UC-92-507**	2CKA001012A2147	10
champagne	**2006/4 UC-93-507**	2CKA001012A2166	10
alpine white	**2006/4 UC-94-507**	2CKA001012A2140	10
château-black	**2006/4 UC-95-507**	2CKA001012A2176	10
chalet-white	**2006/4 UC-96-507**	2CKA001012A2186	10

[1]) These blind switches/push buttons safely prevent a switch-over of the running direction being carried out too quickly.

	**Blind switch with cover [1]) SP, push switch.** With interlock. Rated voltage: 250 V~ Rated current: 10 AIEC60669-1		
white	**2026/4 UC-92-507**	2CKA001413A1085	10
champagne	**2026/4 UC-93-507**	2CKA001413A1094	10
alpine white	**2026/4 UC-94-507**	2CKA001413A1082	10
château-black	**2026/4 UC-95-507**	2CKA001413A1098	10
chalet-white	**2026/4 UC-96-507**	2CKA001413A1102	10

[1]) These blind switches/push buttons safely prevent a switch-over of the running direction being carried out too quickly.

	**Blind switch with cover [1]) [2]) SP, N, E** With rotary knob/switch and push switch. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W IEC 60669-1		
white	**2713 UCDR-92-507**	2CKA001101A0922	10
champagne	**2713 UCDR-93-507**	2CKA001101A0926	10
alpine white	**2713 UCDR-94-507**	2CKA001101A0920	10
château-black	**2713 UCDR-95-507**	2CKA001101A0928	10
chalet-white	**2713 UCDR-96-507**	2CKA001101A0930	10

[1]) Blind switches/push switches prevents fast change over between operating directions.
[2]) Also suitable for DC drives.

	**Blind switch with cover [1]) [2]) SP, N, E** With rotary knob/push button. Rated voltage: 250 V~ Rated current: 10 AIEC60669-1		
white	**2723 UCDR-92-507**	2CKA001101A0923	10
champagne	**2723 UCDR-93-507**	2CKA001101A0927	10
alpine white	**2723 UCDR-94-507**	2CKA001101A0921	10
château-black	**2723 UCDR-95-507**	2CKA001101A0929	10
chalet-white	**2723 UCDR-96-507**	2CKA001101A0931	10

[1]) Blind switches/push switches prevents fast change over between operating directions.
[2]) Also suitable for DC drives.

Product	Article-No.	Order-No.	Pack/Qty
	**Blind compact timer** Suitable for blind and roller blind drives with mechanical or electronic limit switch shut-off. Without extension unit input. Running time: 3 min N-busbar connection is required. For manual and time-controlled switching of blinds and roller blinds. Memory function for the simple storage of switching times. The controlled devices can be manually operated at any time. Simple setting via display with with segment display and background illumination. Factory pre-set switching times, individual adaptations are possible. 2 switching times per day can be freely adjusted for each day of the week. Automatic switchover from summer time to winter time (switch-off function). Switching times and programs are safely stored in the event of a mains power failure. Power reserve for time and date > 10 years. Simple toggling between manual/automatic/vacation modes. See the associated cover plates 6435-xx. Programming possible only with control element attached and energized. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 2x Normally open contact Rated current: 3 A, cos ϕ 0.5 Rated power: 690 VA Temperature range (Device): 0 °C to 45 °C		
	6422 U-500	2CKA006410A0410	1/10

basic55®

Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Comfort timer control element [1])** For manual and time-controlled switching of blinds, roller blinds, awnings, lighting and other electrical devices. With dusk to dawn program including (Astro-program) Individual Astro adjustment and Astro blocking time. The controlled devices can be manually operated at any time. Simple setting via high-resolution display with background illumination. With preset switching times/date/time. Factory-set switching times can be individually adjusted. Automatic switchover from summer time to winter time (switch-off function). Switching times/programme are safely stored in the event of a mains power failure. Power reserve for time and date > 10 years. Simple toggling between manual/automatic/vacation modes. Combined with Busch-Blind control II insert 6411 U/S-101, sun protection and twilight function. Freely adjustable temperature and brightness-dependent sun protection function. Freely adjustable twilight function. User-adjustable running times for blinds and air conditioning. Programming possible only with control element attached and energized. 6 switching times per day can be user-defined for each day of the week. Astro switching times and switching times can be combined. When combined with LED dimmer 6524 U, Busch-Universal master dimmer insert 6593 U or Busch-Memory touch-type controller 6550 U-101, the brightness of the lighting can be adjusted for each ON switching time. For Busch-Blind control II insert 6411 U-101, 6411 U/S-101. For Busch-Universal relay switch insert 6401 U-102. For Busch-Universal master dimmer insert 6593 U. For LED dimmer insert 6524 U and 6526 U.. For Busch-Memory touch-type controller 6550 U-101. Temperature range (Device): 0 °C to 35 °C		
	6455-101-500	2CKA006410A0399	1/10

[1]) See respective cover plates 6435-xx.

Product	Article-No.	Order-No.	Pack/Qty
	**Standard timer control element [1])** For manual and time-controlled switching of blinds and roller blinds. With dusk to dawn program including (Astro-program) Individual Astro adjustment and Astro blocking time. The controlled devices can be manually operated at any time. Simple setting via high-resolution display with background illumination. With preset switching times/date/time. Factory-set switching times can be individually adjusted. Automatic switchover from summer time to winter time (switch-off function). Switching times/programme are safely stored in the event of a mains power failure. Power reserve for time and date > 10 years. Simple toggling between manual/automatic/vacation modes. Programming possible only with control element attached and energized. 2 switching times per day can be user-defined for each day of the week. Astro switching times and switching times can be combined. For basic blind insert 6418 U. Temperature range (Device): 0 °C to 35 °C		
	6456-101	2CKA006410A0398	1/10

[1]) See respective cover plates 6435-xx.

	Cover plate For comfort timer control element 6455-101-500. For standard timer control element 6456-101. For room thermostats 1098 U-101 and 1098 UF-101. For Busch-CO2 sensor 1091 U-500.		
white	**6435-92-507**	2CKA006430A0353	10
champagne	**6435-93-507**	2CKA006430A0392	10
alpine white	**6435-94-507**	2CKA006430A0352	10
château-black	**6435-95-507**	2CKA006430A0393	10
chalet-white	**6435-96-507**	2CKA006430A0394	10

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Blind control / timers / CO_2 sensor

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-CO2 sensor [1])** **For controlling the incoming fresh air in rooms by means of opening or switching of windows/fans.** With display for carbon dioxide, humidity, temperature and air pressure. Setting values: carbon dioxide 800 ppm - 1500 ppm, humidity 40% - 95%. With 2 zero-potential relay contacts. Nominal voltage: 230 V~ Nominal current: 6 A cos ϕ = 1 Without claw fixation. To fit cover plate 6435-xxx.		
	1091 U-500	2CKA001032A0518	1/10

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1])** With screwless terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A		
white	**20 EUC-92-507**	2CKA002011A3857	10/100
champagne [2])	**20 EUC-93-507**	2CKA002011A6140	10/100
alpine white	**20 EUC-94-507**	2CKA002011A3855	10/100
château-black	**20 EUC-95-507**	2CKA002011A6142	10/100
chalet-white	**20 EUC-96-507**	2CKA002011A6144	10/100

[1]) Terminals suitable for loop through connection.
[2]) Surface painted.

	**SCHUKO® socket outlet [1])** **shuttered** With screwless terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A		
white	**20 EUCKS-92-507**	2CKA002013A5279	10/100
champagne	**20 EUCKS-93-507**	2CKA002013A5337	10
alpine white	**20 EUCKS-94-507**	2CKA002013A5278	10/100
château-black	**20 EUCKS-95-507**	2CKA002013A5338	10
chalet-white	**20 EUCKS-96-507**	2CKA002013A5339	10

[1]) Increased shock protection .

	**SCHUKO® socket outlet [1])** **with marking "DATA"** With screwless terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A		
white	**20 EUC/DV-92-507**	2CKA002011A3856	10
champagne	**20 EUC/DV-93-507**	2CKA002011A6141	10
alpine white	**20 EUC/DV-94-507**	2CKA002011A3854	10
château-black	**20 EUC/DV-95-507**	2CKA002011A6143	10
chalet-white	**20 EUC/DV-96-507**	2CKA002011A6145	10

[1]) Can only be used in SI frames with adapter 1746-....

	**SCHUKO® socket outlet** **with marking** With screwless terminals. DP (2 P + E) With continuous coloured marking of cover plate and base. Rated voltage: 250 V~ Rated current: 16 A		
red RAL 3020	**20 EUC-12-92-507-101**	2CKA002011A6252	10
Green, RAL 6032	**20 EUC-13-92-507-101**	2CKA002011A6261	10
orange RAL 2004	**20 EUC-14-92-507**	2CKA002011A6153	10

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Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Blind insert, 1 gang, 2 way flex** 3 wire connection (neutral conductor required). For the control of roller shutters, blind and awning motors with mechanical or electronic limit switch shut-off. Group formation via extension input possible. Operation also via conventional push buttons (2020 US non-illuminated/2021/6 UK) possible. Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL.		
	64831 U-500	2CKA006400A0096	1
	**Extension insert flex** 3 wire connection (neutral conductor required). For the extension of the Busch-Comfort switch or presence detector installations. For group control of flex inserts via extension unit communication. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with all flex inserts.		
	64891 U-500	2CKA006800A3051	1
	**Control element, 1 gang flex** Tapping control element, 1gang. Compatible with all free@home flex inserts. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64711-500	2CKA006400A0099	1
	**Control element, 1 gang, flex wireless** Tapping control element, 1gang. For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@ home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 1gang rocker 6230-10x-xxx, 6231-10x-xxx, 6232-10x-xxx, 6233-10x-xxx and 6234-10x-xxx. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62711-WL-500	2CKA006200A0281	1
	**Control element, 2 gang flex** Tapping control element, 2gang For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	64721-500	2CKA006400A0101	1

Product	Article-No.	Order-No.	Pack/Qty
	**Control element, 1 gang, flex wireless** Tapping control element, 2gang For the manual and automatic control of roller blinds, blinds, awnings, lighting and electric loads. Compatible with all free@home flex inserts. Remote operation via the Bluetooth and smartphone/tablet app. Programming via Bluetooth with the ABB-free@home® app or via the web interface of the System Access Point. Timer with Astro function. For 2gang rocker 6230-2x-xxx, 6231-2x-xxx, 6232-2x-xxx, 6233-2x-xxx and 6234-2x-xxx. For saving and calling up 2 scenes via the right rocker. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. For blind insert flex, 1gang, 64831 U.		
	62721-WL-500	2CKA006200A0283	1
	**Weather Station** For recording and transmitting of brightness, temperature, wind speed and rain. Weather data can be linked with actuators to automatically control functions. Weather data can be visualized in the free@home web interface and the free@home app. Remote operation via the Bluetooth and smartphone/tablet app.		
	WS-1-WL.1	2CKA006200A0297	1
	**Standard Inputs** WS-1/A1.1 Mast adapter weather station		
	WS-1/A1.1	2CKA006200A0848	1

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Blind control / timers

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker** **1gang, with “Blind” icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
white	SRB-1-92	2CKA006220A0637	1
champagne	SRB-1-93	2CKA006220A0654	1
alpine white	SRB-1-94	2CKA006220A0671	1
chateau-black	SRB-1-95	2CKA006220A0688	1
	**Rocker** **2gang left/right, “Blind” icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
white	SRB-2-92	2CKA006220A0642	1
champagne	SRB-2-93	2CKA006220A0659	1
alpine white	SRB-2-94	2CKA006220A0676	1
chateau-black	SRB-2-95	2CKA006220A0693	1
	**Rocker** **2gang right, with “Scene” icon** As cover for ABB-free@home® sensor units and sensor/ actuator units		
white	SRS-2-R-92	2CKA006220A0647	1
champagne	SRS-2-R-93	2CKA006220A0664	1
alpine white	SRS-2-R-94	2CKA006220A0681	1
chateau-black	SRS-2-R-95	2CKA006220A0698	1

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Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet with hinged lid** With screwless terminals. DP (2 P + E) Hinged lid notches when opened. Rated voltage: 250 V~ Rated current: 16 A		
white	**20 EUK-92-507**	2CKA002018A0351	10/100
champagne	**20 EUK-93-507**	2CKA002018A1498	10
alpine white	**20 EUK-94-507**	2CKA002018A0350	10/100
château-black	**20 EUK-95-507**	2CKA002018A1499	10
chalet-white	**20 EUK-96-507**	2CKA002018A1500	10
	**SCHUKO® socket outlet with hinged lid** Shuttered. With screwless terminals. DP (2 P + E) Hinged lid notches when opened. Rated voltage: 250 V~ Rated current: 16 A		
white	**20 EUKB-92-507**	2CKA002111A0652	10
champagne	**20 EUKB-93-507**	2CKA002111A0653	10
alpine white	**20 EUKB-94-507**	2CKA002111A0654	10
château-black	**20 EUKB-95-507**	2CKA002111A0655	10
chalet-white	**20 EUKB-96-507**	2CKA002111A0656	10
	**SCHUKO® socket outlet with hinged lid** Delivered with special frame for IP44 protection level The IP44 protection level will achieved only if the device is mounted on a flat and napless wall. With screwless terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A		
white	**20 EUCKD-92-507**	2CKA002018A1504	10/100
champagne	**20 EUCKD-93-507**	2CKA002018A1501	10/100
alpine white	**20 EUCKD-94-507**	2CKA002018A1505	10/100
château-black	**20 EUCKD-95-507**	2CKA002018A1502	10/100
chalet-white	**20 EUCKD-96-507**	2CKA002018A1503	10/100
	**Single socket outlet with lid, shuttered, IP44** The IP44 protection level will achieved only if the device is mounted on a flat and napless wall. With screwless terminals. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A		
white	**5519B-A02999 92**	2CHB192999A4092	10
champagne	**5519B-A02999 93**	2CHB192999A4093	10
alpine white	**5519B-A02999 94**	2CHB192999A4094	10
château-black	**5519B-A02999 95**	2CHB192999A4095	10

Product	Article-No.	Order-No.	Pack/Qty
	**Socket outlet [1] with earth pin** With screwless terminals. Suitable for the countries: Belgium, Poland, Czech Republic. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A		
	20 M-500	2CKA002017A0854	10/100

[1] Insert can be used for all covers 2399 UCKS-xx.

	**Cover plate shuttered** For socket outlet insert 20 M-500.		
white	**2399 UCKS-92-507**	2CKA002099A0251	10
champagne	**2399 UCKS-93-507**	2CKA002099A0259	10
alpine white	**2399 UCKS-94-507**	2CKA002099A0250	10
château-black	**2399 UCKS-95-507**	2CKA002099A0260	10
chalet-white	**2399 UCKS-96-507**	2CKA002099A0261	10
	**Double SCHUKO® socket outlets [1] [2]** Complete cover. With screwless terminals. DP (2 P + E) Suitable for 1gang flush-mounted boxes. Rated voltage: 250 V~, Rated current: 16 A Protection class (Device): IP 20		
white	**202 EUJ-92**	2TKA00003903	10/100
alpine white	**202 EUJ-94**	2TKA00003904	10/100

[1] Separat installation only possible.
[2] With 2 x 2 terminals per pole.

	**Double SCHUKO® socket outlets [1] [2]** Complete cover. With screwless terminals. DP (2 P + E) Suitable for 1gang flush-mounted boxes. Rated voltage: 250 V~, Rated current: 16 A Protection class (Device): IP 20		
white	**202 EUJ-92**	2TKA00003903	10/100
alpine white	**202 EUJ-94**	2TKA00003904	10/100

[1] Separat installation only possible.
[2] With 2 x 2 terminals per pole.

	**SCHUKO® socket outlet [1] [2] with screw-type terminals** DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A		
ivory	**2300 EUC-92-507**	2CKA002011A6154	10
champagne	**2300 EUC-93-507**	2CKA002011A6146	10
alpine white	**2300 EUC-94-507**	2CKA002011A6155	10
château-black	**2300 EUC-95-507**	2CKA002011A6147	10
chalet-white	**2300 EUC-96-507**	2CKA002011A6150	10

[1] Terminals suitable for loop through connection.
[2] With screw-type terminals

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Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**Socket outlet with earthing pin** With screwless terminals. Suitable for the countries like Poland, Czech Republic. DP (2 P + E) Rated voltage: 250 V~ Rated current: 16 A		
alpine white	**20 MUC-94-507**	2CKA002017A0847	10/100
white	**20 MUC-92-507**	2CKA002017A0848	10/100
champagne	**20 MUC-93-507**	2CKA002017A0867	10
château-black	**20 MUC-95-507**	2CKA002017A0869	10/100
chalet-white	**20 MUC-96-507**	2CKA002017A0871	10
	**SCHUKO® USB socket outlet, 2gang [1] [2] [3] [4] shuttered** For connecting electric loads. DP (2 P + E) With screwless terminals. For supply and support of mobile devices via USB-cable. With two USB type A outputs. Simultaneous charging via USB connection and use of the SCHUKO® socket outlet. Support of loading protocol on the USB-A connection: Apple MFI with 2.4 A and BC 1.2 with 1.5 A. With electronic short-circuit protection. With electronic overload protection. Rated voltage: 230 V~, +10 % / --10 % Secondary: 5 V-, +5 % / -5 % Rated frequency: 50 Hz - 60 Hz Outputs: 2x USB charging interface Suitable for: SCHUKO® socket outlet Rated current: 16 A Suitable for: In case one output is used: Rated current: 2.4 A Output voltage: 5 V- Suitable for: In case two output are used: Rated current: 1.2 A Output voltage: 5 V- Rated power: 12 W Protection class (Device): IP 20, SELV Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 58 mm Mounting depth: 39.5 mm		
white	**20 EUCB2USB-92-507**	2CKA002011A6285	1/10
champagne [5]	**20 EUCB2USB-93-507**	2CKA002011A6286	1/10
alpine white	**20 EUCB2USB-94-507**	2CKA002011A6287	1/10
château-black	**20 EUCB2USB-95-507**	2CKA002011A6288	1/10
chalet-white	**20 EUCB2USB-96-507**	2CKA002011A6289	1/10

[1] Increased shock protection .
[2] Connecting terminals approved in accordance with VDE 0620-1 as connectors.
[3] No data transfer.
[4] When cleaning the device, use dust cover 2098 for the USB-A connection.
[5] Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**USB socket outlet earthing pin, 2gang [1] [2] [3] shuttered** For connecting electric loads. DP (2 P + E) With screwless terminals. For supply and support of mobile devices via USB-cable. With two USB type A outputs. Simultaneous charging via USB connection and use of the SCHUKO® socket outlet. Support of loading protocol on the USB-A connection: Apple MFI with 2.4 A and BC 1.2 with 1.5 A. With electronic short-circuit protection. With electronic overload protection. Suitable for the countries: Belgium, Poland, Czech Republic. Rated voltage: 230 V~, +10 % / --10 % Secondary: 5 V-, +5 % / -5 % Rated frequency: 50 Hz - 60 Hz Outputs: 2x USB charging interface Suitable for: Earth pin socket Rated current: 16 A Suitable for: In case one output is used: Rated current: 2.4 A Suitable for: In case two output are used: Rated current: 1.2 A Output voltage: 5 V- Rated power: 12 W Protection class (Device): IP 20, SELV Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 58 mm Mounting depth: 39.5 mm		
white	**20 MUCB2USB-92-507**	2CKA002017A1898	1/10
champagne [4]	**20 MUCB2USB-93-507**	2CKA002017A1899	1/10
alpine white	**20 MUCB2USB-94-507**	2CKA002017A1900	1/10
château-black	**20 MUCB2USB-95-507**	2CKA002017A1901	1/10
chalet-white	**20 MUCB2USB-96-507**	2CKA002017A1902	1/10

[1] Socket outlet with integrated child protection. Replaces the usual term"...with child protection".
[2] No data transfer.
[3] When cleaning the device, use dust cover 2098 for the USB-A connection.
[4] Surface painted.

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Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**Universal data connection unit, cat. 3 [1])** **1gang** With down-leading outlet. For 8-pole plug, RJ 11/12, RJ 45, ISDN capability, Cat. 3. Design according to IEC 60 603-7-2:2007. Screw contacts With claw. Protection class (Device): IP 20		
	0213-507	2CKA000230A0378	1/10

[1]) Suitable for cover plate 1803-xxx.

	**Universal data connection unit, RJ45, Cat. 6e, unshielded, with down-leading outlet [1])** **1gang** With down-leading outlet and LSA self-cutting clamps. Cat. 6 according to DIN EN 50173-1:2003-06, ISO/IEC 1180:2002, and TIA/EIA-568-B.2:2002. Marking in accordance with EIA/TIA 568 A and B. Design according to IEC 60 603-7-2:2007. Up to 250 MHz on all pairs of wires. Suitable for Gigabit Ethernet. With claw. Suitable for RJ 11, RJ 12 und RJ 45.		
	0220-507-101	2CKA000230A0469	10

[1]) Suitable for cover plate 1803-xxx.

	**Data-connection box, RJ 45, cat. 6a iso, shielded [1])** **1gang** With down-leading outlet and LSA self-cutting clamps. RJ-45 terminals for networks according to Cat 6A, Class EA (10 Gbits/s / 500MHz). Equates to cat. 6a, Class EA according to ISO/IEC 11801:2011-06. Terminal marking A and B according to TIA/EIA-568-B.2. Typ according to EN 60 603-7-51:2011-01. Shielding according to DIN EN 55022, Class B. Up to 500 MHz on all pairs of wires. Suitable for 10-Gigabit Ethernet. Suitable for PoE+ according to IEEE 802.3at, >- 1.000 contact durability. Flex cable entries from all sides without buckles. Earthing of housing via 6,3 mm blade terminal at the back possible. Re-embedded proofed. Suitable for Mix-and-Match operation. Suitable for RJ 11, RJ 12 und RJ 45. For data cables with a diameter of 6 -10 mm. For wires of AWG 24-22. For trunk systems, flush-mounted wall boxes and underfloor systems. Without claws. Mounting depth: 31 mm. Protection class (Device): IP 20		
metal clad	**0218/11-101-507**	2CKA000230A0410	1/10

[1]) Suitable for cover plate 1803-xxx.

Product	Article-No.	Order-No.	Pack/Qty
	**Universal data connection unit, RJ45, Cat. 6e, unshielded, with down-leading outlet [1])** **1gang** With down-leading outlet and LSA self-cutting clamps. Cat. 6 according to DIN EN 50173-1:2003-06, ISO/IEC 1180:2002, and TIA/EIA-568-B.2:2002. Cat. 6a (Category 6 augmented) in accordance with TIA/EIA-568-B.2-10 Draft 8.0. Marking in accordance with EIA/TIA 568 A and B. Design according to IEC 60 603-7-2:2007. Up to 250 MHz on all pairs of wires. Suitable for Gigabit Ethernet. With claw.		
	0221-507	2CKA000230A0399	10

[1]) Suitable for cover plate 1803-xxx.

	**Modular-Jack insert** **Cat. 6 non-shielded, 8 (8)-pole** For cover plate 2561-xxx, 2561-02-xxx and insert 1812, 1866 built-in, 1867 built-in. For conductor cross-sections of 0.12 mm² (AWG 26) to 0.35 mm² (AWG 22).		
	0209-507	2CKA000225A0154	1/10

	**Universal data connection box with down-leading outlet [1])** **2gang internally parallel connected** With down-leading outlet. For 8-pole plug, RJ 11/12, RJ 45, ISDN capability, Cat. 3. Design according to IEC 60 603-7-2:2007. Screw contacts With claw. Protection class (Device): IP 20		
	0214	2CKA000230A0235	10/100
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		

[1]) Suitable for cover plate 1803-02-xxx.

	**Universal data connection box with down-leading outlet [1])** **2 x outlets, 8/8-pole** With down-leading outlet. For 8-pole plug, RJ 11/12, RJ 45, ISDN capability, Cat. 3. Design according to IEC 60 603-7-2:2007. Screw contacts With claw. Protection class (Device): IP 20		
	0215	2CKA000230A0243	10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		
neon indicator:	not applicable		

[1]) Suitable for cover plate 1803-02-xxx.

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Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**Data-connection box, RJ 45, cat. 6a iso, shielded [1])** **2 x outlets, 8/8-pole** With down-leading outlet and LSA self-cutting clamps. RJ-45 terminals for networks according to Cat 6A, Class EA (10 Gbits/s / 500MHz). Equates to cat. 6a, Class EA according to ISO/IEC 11801:2011-06. Terminal marking A and B according to TIA/EIA-568-B.2. Typ according to EN 60 603-7-51:2011-01. Shielding according to DIN EN 55022, Class B. Up to 500 MHz on all pairs of wires. Suitable for 10-Gigabit Ethernet. Suitable for PoE+ according to IEEE 802.3at, >- 1.000 contact durability. Flex cable entries from all sides without buckles. Earthing of housing via 6,3 mm blade terminal at the back possible. Re-embedded proofed. Suitable for Mix-and-Match operation. Suitable for RJ 11, RJ 12 und RJ 45. For data cables with a diameter of 6 -10 mm. For trunk systems, flush-mounted wall boxes and underfloor systems. For wires of AWG 24-22. Without claws. Mounting depth: 31 mm. Protection class (Device): IP 20		
metal clad	**0218/12-101-507**	2CKA000230A0412	1/10

[1]) Suitable for cover plate 1803-02-xxx.

	**Universal data connection unit, RJ45, Cat. 6e, unshielded, with down-leading outlet [1])** **2 x outlets, 8/8-pole** With down-leading outlet and LSA self-cutting clamps. Cat. 6 according to DIN EN 50173-1:2003-06, ISO/IEC 1180:2002, and TIA/EIA-568-B.2:2002. Cat. 6a (Category 6 augmented) in accordance with TIA/EIA-TR 42.7. Marking in accordance with EIA/TIA 568 A and B. Design according to IEC 60 603-7-2:2007. Up to 250 MHz on all pairs of wires. Suitable for 10-Gigabit Ethernet. With claw.		
	0221/12-507	2CKA000230A0400	10

[1]) Suitable for cover plate 1803-02-xxx.

	**Flush-mounted assembly adapter** For the accommodation of one or two universal modules 0219. For flush-mounted installation. Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. Protection class (Device): IP 20		
	0219/12	2CKA000230A0395	1/10

	**Channel assembly adapter** For the accommodation of one or two universal modules 0219. For channel and under-floor installation. Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. Protection class (Device): IP 20		
	0219/13	2CKA000230A0396	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**Stereo loudspeaker connection box [1])** With screwless terminals (with screw-type terminals on the back). With 4 terminals. Cable cross-section max. 10 mm2. Polarity is indicated by color. With claw. Protection class (Device): IP 20		
white	**0248/02-101**	2CKA000230A0402	10/100

[1]) Suitable for cover telephone unit 1766-xxx and 2539-21x.

	**Stereo loudspeaker connection box [1])** With screwless terminals (with screw-type terminals on the back). With 4 terminals. Cable cross-section max. 10 mm2. Polarity is indicated by color. With claw. Protection class (Device): IP 20		

[1]) Suitable for cover telephone unit 1766-xxx and 2539-21x.

	**Stereo loudspeaker connection box [1])** With screwless terminals (with screw-type terminals on the back). With 4 terminals. Cable cross-section max. 10 mm2. Polarity is indicated by color. With claw. Protection class (Device): IP 20		
anthracite	**0248/05-101**	2CKA000230A0404	10/100

[1]) Suitable for cover telephone unit 1766-xxx and 2539-21x.

	**USB connection unit [1])** **with screw-type terminals and strain relief** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To link mobile devices like e.g. printer, scanner, USB-sticks or digital cameras etc. USB-type A, USB 2.0 compatible. For 5-wire USB- cables via srew-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. For easy mounting and adhering to the admissible bending radii, the Kaiser >Electronic socket<, article number 1068-02 or 9062-74, is recommended. Without cover plate. Without claws. Protection class (Device): IP 20 Mounting depth: 34 mm		
white	**0261/11-500**	2CKA000230A0418	1

[1]) Please follow the recommendations of the cable and device producers for the max. USB cable lengths.

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Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**VGA connection unit [1])** **with screw-type terminals and strain relief** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To link analogue video data between PCs and laptops to monitors or digital projectors etc. VGA-type: D-type, 15-pole. Fully HD ready (1920 x 1080 pixel). For 15-wire VGA-cables via srew-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. For easy mounting and adhering to the admissible bending radii, the Kaiser >Electronic socket<, article number 1068-02 or 9062-74, is recommended. Without cover plate. Without claws. Protection class (Device): IP 20 Mounting depth: 34 mm		
white	**0261/21-500**	2CKA000230A0424	1

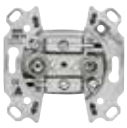
[1]) Please follow the recommendations of the cable and device producers for the max. VGA cable lengths.

	**HDMI connection unit [1])** **with screw-type terminals and strain relief** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To link high-definition digital audio and video data from e.g. SAT-receiver, DVD-/Blue-Ray-player to plasma-type, LCD- or-LED-TVs/screens. HDMI-type A, 3D-compatible. Fully HD ready (1920 x 1080 pixel). For 20-wire HDMI-cables via srew-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. For easy mounting and adhering to the admissible bending radii, the Kaiser >Electronic socket<, article number 1068-02 or 9062-74, is recommended. Without cover plate. Without claws. Protection class (Device): IP 20 Mounting depth: 34 mm		
white	**0261/31-500**	2CKA000230A0430	1

[1]) Please follow the recommendations of the cable and device producers for the max. HDMI cable lengths.

	**TV outlet** For connection to a TV or FM co-axial aerial lead. Rated frequency: 5000 Hz - 860000 HzIEC 60169-2		
white	**1743-01-92-507**	2CKA001724A4280	10/100
champagne	**1743-01-93-507**	2CKA001724A4310	10/100
alpine white	**1743-01-94-507**	2CKA001724A4276	10/100
château-black	**1743-01-95-507**	2CKA001724A4313	10
chalet-white	**1743-01-96-507**	2CKA001724A4317	10

	**Satellite co-axial outlets** **2 connectors/dead-end feeder** Broadband technology 5-2.400 MHz For DVB-T, satellite and broad-band cable systems. For analogue and digital transmission. With claw. Minimal installation depth, class A. Protection class (Device): IP 20		
	0230-101-507	2CKA000230A0380	10/100

Product	Article-No.	Order-No.	Pack/Qty
	**Antenna socket insert Radio/TV** **2 connectors/loop through type** Broadband technology 5-2.400 MHz For DVB-T, satellite and broad-band cable systems. For analogue and digital transmission. With claw. Minimal installation depth, class A. Protection class (Device): IP 20		
	0231-101	2CKA000230A0268	10/100

	**Satellite co-axial outlets Radio/TV/SAT** **3gang dead-end feeder** Broadband technology 47-2.150 MHz. SAT connection designed as screwable F-male plug. with remote feed via F-bush For DVB-T and broadband-cable-systems. For analogue and digital transmission. With claw. Minimal installation depth, class A. Protection class (Device): IP 20		
	0232-101-500	2CKA000230A0463	10/100

	**Terminating resistor** **75 Ohm** Protection class (Device): IP 20		
	0239	2CKA000230A0201	10/100

	**Modular-Jack insert** **Cat. 5e non-shielded, 8 (8)-pole** For cover plate 2561-xxx, 2561-02-xxx and insert 1812, 1866 built-in, 1867 built-in. For conductor cross-sections of 0.12 mm² (AWG 26) to 0.35 mm² (AWG 22).		
	0211/11-507	2CKA000225A0153	1/10

	**Modular-Jack insert** **6-pole Cat. 3 (AMP-No. 216000-2)** For cover plate 2561-xxx, 2561-02-xxx and insert 1812, 1866 built-in, 1867 built-in. For conductor cross-sections of 0.12 mm² (AWG 26) to 0.35 mm² (AWG 22). Protection class (Device): IP 20		
	0210	2CKA000225A0078	10

	**Modular-Jack insert** **8-pole Cat. 3 (AMP-No. 216005-4)** For cover plate 2561-xxx, 2561-02-xxx and insert 1812, 1866 built-in, 1867 built-in. For conductor cross-sections of 0.12 mm² (AWG 26) to 0.35 mm² (AWG 22). Protection class (Device): IP 20		
	0211	2CKA000225A0086	10

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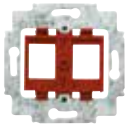
Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**Universal module, RJ 45, cat. 6a iso, shielded [1]) 1gang** For installation in installation adapter 0219/12 or 0219/13. Also suited for mounting into cover plate 2561-xxx, 2564-02-xxx and bases 1812, 1866 EB, and 1867 EB. RJ-45 terminals for networks according to Cat 6A, Class EA (10 Gbits/s / 500MHz). Equates to cat. 6a, Class EA according to ISO/IEC 11801:2011-06. Cat. 6A according to ISO/IEC 11801: 2011-06. Terminal marking A and B according to TIA/EIA-568-B.2. Typ according to EN 60 603-7-51:2011-01. Shielding according to DIN EN 55022, Class B. Suitable for PoE+ according to IEEE 802.3at, >- 1.000 contact durability. Bend-radius optimised cable feed (30°). Earthing of housing via 6,3 mm blade terminal at the back possible. Re-embedded proofed. Suitable for Mix-and-Match operation. For 8-pole plug RJ 45 only. Housing made from diecast zinc. With integrated dust-protection cap (can be removed if necessary). With insulation displacement connection. For data cables with a diameter of 6 -10 mm. For wires of AWG 24-22. For trunk systems, flush-mounted wall boxes and underfloor systems. Protection class (Device): IP 20		
metal clad	**0219-101-507**	2CKA000230A0414	1/10

[1]) With assembly adapters appropriate for telephone unit cover plates 2539-21x and 1766-xxx.

	**Mounting plate [1]) [2]) with green insert** For 2 modular jack inserts. For systems: CommScope (AVAYA / AT&T / Lucent Technologies), GigaSPEED, PowerSUM, 360 GS 10E bis MGS 600-BK, M1 BH-xx, MPS 100E-xx. With R&M adapter R310694 suitable for R&M connection modules R305111, R305112, R305113 and R305114. Pitch dimensions: (WxH) approx. 16.9 x 17.9 mm. Without claws. Protection class (Device): IP 20		
	1810-500	2CKA001753A9974	10/100

[1]) Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2]) For further information, please refer on the Internet.

	**Mounting plate [1]) [2]) with red insert** For 2 modular jack inserts. Suitable for Art. Nos. 0210, 0211 and 0219-101. For systems: AMP / tyco Electronics, BTR, EFB, Krone, Panduit, Quante, Radiall, Setec, Dr.-Ing. Sieger, Telena, Thomas & Betts For Telegärtner AMJ/UMJ connection modules/ couplings. For 2 fiber optic modules of the following types: 3M-Volition, Krone, mvk. Pitch dimensions: (WxH) approx. 14.8 x 19.4 mm. Without claws. Protection class (Device): IP 20		
	1812-500	2CKA001753A9972	10/100

[1]) Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2]) For further information, please refer on the Internet.

Product	Article-No.	Order-No.	Pack/Qty
	**Mounting plate [1]) [2]) with black insert** For MTRJ or 2 modular jack inserts. For systems: Ackermann, AMP / tyco Electronics (Slim Line (SL) -SM 2gang/switches: 110Connect Jacks, Toolless Jacks / Standard 110Connect Jacks), Brand-Rex, CombiNet, EFB Electronic, Telena. For 2 fiber optic modules of the following types: AMP / tyco Electronics MTRJ. Pitch dimensions: (WxH) approx. 14.8 x 20.4 mm. Without claws. Protection class (Device): IP 20		
	1814-500	2CKA001753A9973	10/100

[1]) Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2]) For further information, please refer on the Internet.

	**Mounting plate [1]) [2]) with blue insert** For 2 modular jack inserts. For system: ITT Cannon RJ45 Cat. 5 type 808 RJ45 Mark III. Pitch dimensions: (WxH) approx. 16.0 x 11.0 mm. Without claws. Protection class (Device): IP 20		
	1816	2CKA001710A3100	10/100

[1]) Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2]) For further information, please refer on the Internet.

	**Mounting plate [1]) [2]) with orange base** For 2 modular jack inserts. For system: LexCom 150 and LexCom 250. Pitch dimensions: (WxH) approx. 15.4 x 15.4 mm. Without claws. Protection class (Device): IP 20		
	1819	2CKA001753A8056	10/100

[1]) Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2]) For further information, please refer on the Internet.

	**Mounting plate [1]) [2]) with grey base** For 2 modular jack inserts. For system: Panduit MiniCom (Cu. z.B. TX6 10 Gig Shielded Jack modules and fiber optic modules. Pitch dimensions: (WxH) approx. 15.9 x 18.7 mm. Without claws. Protection class (Device): IP 20		
	1820	2CKA001753A8057	10/100

[1]) Compatibility with other manufacturers not listed is to be checked in accordance with specified snap-in dimensions.
[2]) For further information, please refer on the Internet.

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Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **1gang** As cover for universal data connection boxes. Art.-No. 0213 (Cat 3/ISDN), 0216-101, 0218/11-101 (Cat 5e/6 data technology) and comparable types of the company Rutenbeck. Brand-Rex (WAEGV 8 EKR/EK). BTR (universal data connecting unit design and IAE design). Telegärtner (AMJ 45, UMJ 45). With down-leading outlet.		
white	**1803-92-507**	2CKA001753A0098	10/100
champagne	**1803-93-507**	2CKA001753A0204	10/100
alpine white	**1803-94-507**	2CKA001753A0096	10/100
château-black	**1803-95-507**	2CKA001753A0207	10
chalet-white	**1803-96-507**	2CKA001753A0210	10
	**Cover plate** **2gang** As cover for universal data connection boxes. Art. No. 0214, 0215 (Cat 3), 0220/12-507, 0221/12-507, 0218, 0217 (Cat 5e/6 data technology) and comparable types of the company Rutenbeck. Brand-Rex (WAEGV 8/8 EKR/EK). AMP (NETCONNECT 5E). BTR (E-DAT C6, E-DAT design, Universal data connecting unit design and IAE design). cti (cti-wire 2.8 Cat.6). Telegärtner (AMJ 45, UMJ 45). With down-leading outlet.		
white	**1803-02-92-507**	2CKA001753A0097	10/100
champagne	**1803-02-93-507**	2CKA001753A0203	10/100
alpine white	**1803-02-94-507**	2CKA001753A0095	10/100
château-black	**1803-02-95-507**	2CKA001753A0206	10
chalet-white	**1803-02-96-507**	2CKA001753A0209	10
	**Cover plate** For telephone connection unit. For USB, VGA, HDMI inserts and communication adapter. USB power adapter insert 6472 U-500-101. USB power adapter insert 6475 U-101-500. For loudspeaker connection box. Suitable for part number 0248/0x-101. For data modules. Suitable for Art. No. 0219/12 and 0219/13. For modular outlets with 90° RJ45 outlet from Telegärtner (type MJ and WE). Protection class (Device): IP 20		
white	**2539-92-507**	2CKA001724A4279	10
champagne	**2539-93-507**	2CKA001724A4312	10
alpine white	**2539-94-507**	2CKA001724A4275	10/100
château-black	**2539-95-507**	2CKA001724A4315	10
chalet-white	**2539-96-507**	2CKA001724A4318	10

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** **adapter ring** For telecommunication inserts with cover plate 50 x 50 mm. With cover plate 50 x 50 mm, AMP, Brand-Rex, Rutenbeck, BTR, Telegärtner, etc.		
white	**1746-92-507**	2CKA001726A0221	10
champagne	**1746-93-507**	2CKA001726A0229	10
alpine white	**1746-94-507**	2CKA001726A0219	10
château-black	**1746-95-507**	2CKA001726A0231	10
chalet-white	**1746-96-507**	2CKA001726A0233	10
	**Cover plate** **as cover for standard Radio/TV/SAT socket outlets** With 3 connectors. Radio/TV/SAT. With M3 fixing screw.		
white	**1743-92-507**	2CKA001724A4284	10/100
champagne	**1743-93-507**	2CKA001724A4311	10/100
alpine white	**1743-94-507**	2CKA001724A4283	10/100
château-black	**1743-95-507**	2CKA001724A4314	10
chalet-white	**1743-96-507**	2CKA001724A4316	10
	**Cover plate [1])** **with metal mounting plate** As cover for flex outlet, for cords up to 10.3 mm diameter. With strain relief (without terminal block).		
white	**2527-92-507**	2CKA001710A3773	10
champagne	**2527-93-507**	2CKA001710A3932	10
alpine white	**2527-94-507**	2CKA001710A3772	10
château-black	**2527-95-507**	2CKA001710A3936	10
chalet-white	**2527-96-507**	2CKA001710A3940	10

[1]) Cover plate can also be used individually as cover for telephone connector boxes (VDo).

	**Blank plate** **with metal mounting plate**		
white	**2538-92-507**	2CKA001715A0313	10
champagne	**2538-93-507**	2CKA001715A0314	10
alpine white	**2538-94-507**	2CKA001715A0312	10
château-black	**2538-95-507**	2CKA001715A0315	10
chalet-white	**2538-96-507**	2CKA001715A0316	10

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Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** As cover for flush-mounted light signal. For insert 2061/2661 U.		
white	**1756-92-507**	2CKA001753A0099	10
champagne	**1756-93-507**	2CKA001753A0202	10
alpine white	**1756-94-507**	2CKA001753A0100	10
château-black	**1756-95-507**	2CKA001753A0205	10
chalet-white	**1756-96-507**	2CKA001753A0208	10
	**Cover plate** **with metal mounting plate** For 1 modular jack. Suitable for Art. Nos. 0210, 0211 and 0219-101. Without claws.		
white	**2561-92-507**	2CKA001753A0211	10
champagne	**2561-93-507**	2CKA001753A0212	10
alpine white	**2561-94-507**	2CKA001753A0213	10
château-black	**2561-95-507**	2CKA001753A0214	10
chalet-white	**2561-96-507**	2CKA001753A0215	10
	**Cover plate** [1] **with labelling field** For modular jack with slide entrance. To fit only Art. No. 1810, 1812, 1814, 1816, 1818, 1819 and 1820. Size of labelling field: 60 x 9 mm.		
white	**1800-92-507**	2CKA001710A3944	10
champagne	**1800-93-507**	2CKA001710A3941	10
alpine white	**1800-94-507**	2CKA001710A3945	10
château-black	**1800-95-507**	2CKA001710A3942	10
chalet-white	**1800-96-507**	2CKA001710A3943	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

Multimedia communication adapter

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Radio DAB+** [1] DAB+ and RDS stereo radio alarm clock for flush-mounted installation. With high-resolution colour display for showing additional information. Reception frequency: 87.50 MHz - 108.00 MHz. Receive frequency (DAB+): 174 MHz – 240 MHz. With external AUX input/output, reversible. For mono/stereo operation. 8 radio stations storable. With time and date display. With individual alarm and snooze function. With automatic switch-off function (automatic sleep mode). With extension input to remote-controlled ON/OFF switches. With integrated antenna. With additional connection for external antenna. Permitted speaker impedance: 4 - 8 Ohm Can be installed as 1gang and in multiple combinations. Control element: 4-button operation via floating rocker Display elements: ICU graphic display with 280 DPI. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Control/Signal outputs: 2, Loudspeaker output, impedance 4 Ohm Rated power: 2 W (RMS) Protection class (Device): IP 20 Temperature range (Device): 5 °C to 40 °C Dimensions: (L x W x D): 71 mm x 71 mm x 47 mm Mounting depth: 32 mm		
	8215 U-101-500	2CKA008200A0276	1/10

[1] No claw. Screw-fixing via keyholes.

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Multimedia communication adapter

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Radio BTconnect DAB+ [1]** **With Bluetooth interface for music replay.** DAB+ and RDS stereo radio alarm clock for flush-mounted installation. With high-resolution colour display for showing additional information. With Bluetooth interface for music replay of mobile devices. Connection of external Bluetooth loudspeakers possible. Reception frequency: 87.50 MHz - 108.00 MHz. Receive frequency (DAB+): 174 MHz – 240 MHz. With external AUX input/output, reversible. For mono/stereo operation. 8 radio stations storable. With time and date display. With individual alarm and snooze function. With automatic switch-off function (automatic sleep mode). With extension input to remote-controlled ON/OFF switches. With integrated antenna. With additional connection for external antenna. Permitted speaker impedance: 4 - 8 Ohm Can be installed as 1gang and in multiple combinations. Bluetooth specification: 4.2. Bluetooth profiles supported: A2DP Number of stored Bluetooth connections: max. 8 Control element: 4-button operation via floating rocker Display elements: ICU graphic display with 280 DPI. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Rated power: 2 W (RMS) Protection class (Device): IP 20 Temperature range (Device): 5 °C to 40 °C Dimensions: (L x W x D): 71 mm x 71 mm x 47 mm Mounting depth: 32 mm Bluetooth		
	8217 U-101-500	2CKA008200A0279	1/10

[1] No claw. Screw-fixing via keyholes.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Radio iNet [1] [2] [3] [4] [5]** WLAN Internet radio alarm clock for flush-mounted installation. For the reception of national and international radio stations via Internet. Radio station search possible via various genres. With high resolution graphic display and background illumination. With external AUX input. Integrated web-server for configuration and control. Remote operation with smartphone via browser surface. UPnP replay function. It is controlled via smartphone. For mono/stereo operation. 8 radio stations storable. With time and date display. With alarm function. With short-time timer. With automatic switch-off function (automatic sleep mode). With extension input to remote-controlled ON/OFF switches. With integrated WLAN antenna. WLAN Standards: IEEE 802.11b / IEEE 802.11g and IEEE 802.11n (2,4 GHz). WLAN safety: WPA / WPA2. Permitted speaker impedance: 4 - 8 Ohm Can be installed as 1gang and in multiple combinations. Rated voltage: 110 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20 Temperature range (Device): 5 °C to 40 °C Dimensions: (L x W x D): 71 mm x 71 mm x 49 mm Mounting depth: 33 mm APP		
	8216 U-500	2CKA008200A0153	1/10

[1] No claw. Screw-fixing via keyholes.
[2] Matching loudspeaker insert 8223 U.
[3] Auch mit Deckeneinbaulautsprecher (8225 EB) kombinierbar.
[4] Can also be combined with built-in loudspeaker (8222 EB) and moist atmosphere loudspeaker (8224 EB).
[5] To be mounted only in connection with commercially available flush-mounted installation boxes according to DIN 49073 > 40 mm depth gauge or Busch-Jaeger art. no. 3040, 3050 or 3060.

	**Loudspeaker insert [1]** **5 cm (2")** With flat plug connector. With broadband characteristics. Rated output: 2 W (RMS) Incl. speaker connection cable. Frequency response: 200 - 20,000 Hz Impedance: 4 Ohm Protection class (Device): IP 20, SELV Mounting depth: 32 mm		
	8223 U-500	2CKA008200A0183	1/10

[1] No claw. Screw-fixing via keyholes.

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Multimedia communication adapter

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-powerDock Insert [1] [2] [3] [4]** For charging and supplying mobile terminal devices. With quick charging function for devices compatible with quick-chargeTM. Makes possible fast charging of the mobile terminal device. Rated voltage: 100 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Suitable for: Apple terminal device Rated current: 2.1 A Output voltage: 5 V- Suitable for: Terminal device with USB-C connection Rated current: 2.1 A Output voltage: 5 V- Suitable for: Terminal device with quick-charge support and USB-C connection and quick-charge TM function. Rated current: 2 A Output voltage: 9 V- Protection class (Device): IP 20, SELV Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 32 mm Mounting depth: 32 mm		
	6473 U-500	2CKA006400A0039	1/10

[1] No claw. Screw-fixing via keyholes.
[2] The USB-C connection of the Busch-powerDock uses the quick charging function according to Qualcomm® Quick chargeTM 2.0 standard.
[3] In rare cases the manufacturers of USB-C terminal devices support the quick-charging function independent of this standard only in case of charging devices that are the same as those of other manufacturers.
[4] In these cases the quick-charging function of the terminal device is not enabled.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-powerDock Charging cradle with Apple lightning connection [1]** For Busch-powerDock insert 6473 U. For attaching mobile terminal devices with lightning connection. For iPhone XS Max, iPhone XS, iPhone XR, iPhone X. For iPhone 8 Plus, iPhone 8. For iPhone 7 Plus, iPhone 7. For iPhone SE. For iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6. For iPhone 5s, iPhone 5c, iPhone 5. For iPod touch (6th generation), iPod touch (5th generation), iPod nano (7th generation). Suitable for use with protective covers certified by Apple. Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 54 mm x 54 mm x 36 mm		
	6473-500	2CKA006400A0081	1/10

[1] Not released for use with the iPad.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-powerDock Charging cradle with USB-C connection** For Busch-powerDock insert 6473 U. For attaching mobile terminal devices with USB-C connection. Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 54 mm x 54 mm x 36 mm		
	6473/11-500	2CKA006400A0083	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**USB power adapter insert, flush-mounted [1] [2] [3]** **With USB-A & USB-C interface** For supply and support of mobile devices via USB-cable. With USB type A and USB type C female connector. To support two devices at the same time. Supports automatic negotiating of optimum charging parameters for the shortest charging times. Support of loading protocol on the USB-A connection: Apple MFI with 2.4 A and BC 1.2 with 1.5 A. Support of the additional quick-charge protocols: USB-PD and quick-charge 3.0 & 4.0. With electronic short-circuit protection. With electronic overload protection. Rated voltage: 230 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 2x USB charging interface Suitable for: Only USB-A bus occupied: Rated current: 3000 mA Output voltage: 5 V- Suitable for: Only USB-C bus occupied: Rated power: 18 W Suitable for: USB-A and USB-C bus occupied. Total: Rated current: 3250 mA Output voltage: 5 V- Protection class (Device): IP 20, SELV Temperature range (Device): 0 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 43 mm Mounting depth: 32 mm		
	6475 U-500	2CKA006400A0399	1

[1] No claw. Screw-fixing via keyholes.
[2] No data transfer.
[3] When cleaning the device, use dust cover 2098 for the USB-A connection.

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Multimedia communication adapter

Product	Article-No.	Order-No.	Pack/Qty
	**HDMI connection unit [1])** **with screw-type terminals and strain relief** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To link high-definition digital audio and video data from e.g. SAT-receiver, DVD-/Blue-Ray-player to plasma-type, LCD- or-LED-TVs/screens. HDMI-type A, 3D-compatible. Fully HD ready (1920 x 1080 pixel). For 20-wire HDMI-cables via srew-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. For easy mounting and adhering to the admissible bending radii, the Kaiser >Electronic socket<, article number 1068-02 or 9062-74, is recommended. Without cover plate. Without claws. Protection class (Device): IP 20 Mounting depth: 34 mm		
white	**0261/31-500**	2CKA000230A0430	1
grey	**0261/33-500**	2CKA000230A0432	1
alpine white	**0261/32-500**	2CKA000230A0431	1

[1]) Please follow the recommendations of the cable and device producers for the max. HDMI cable lengths.

	**VGA connection unit [1])** **with screw-type terminals and strain relief** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To link analogue video data between PCs and laptops to monitors or digital projectors etc. VGA-type: D-type, 15-pole. Fully HD ready (1920 x 1080 pixel). For 15-wire VGA-cables via srew-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. For easy mounting and adhering to the admissible bending radii, the Kaiser >Electronic socket<, article number 1068-02 or 9062-74, is recommended. Without cover plate. Without claws. Protection class (Device): IP 20 Mounting depth: 34 mm		
white	**0261/21-500**	2CKA000230A0424	1
grey	**0261/23-500**	2CKA000230A0426	1
alpine white	**0261/22-500**	2CKA000230A0425	1

[1]) Please follow the recommendations of the cable and device producers for the max. VGA cable lengths.

Product	Article-No.	Order-No.	Pack/Qty
	**USB connection unit [1])** **with screw-type terminals and strain relief** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To link mobile devices like e.g. printer, scanner, USB-sticks or digital cameras etc. USB-type A, USB 2.0 compatible. For 5-wire USB- cables via srew-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. For easy mounting and adhering to the admissible bending radii, the Kaiser >Electronic socket<, article number 1068-02 or 9062-74, is recommended. Without cover plate. Without claws. Protection class (Device): IP 20 Mounting depth: 34 mm		
white	**0261/11-500**	2CKA000230A0418	1
grey	**0261/13-500**	2CKA000230A0420	1
alpine white	**0261/12-500**	2CKA000230A0419	1

[1]) Please follow the recommendations of the cable and device producers for the max. USB cable lengths.

	**Communication adapter** **for BNC-F Duct-jacks** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To support 1 or 2 jacks. For trunk systems, flush-mounted wall boxes and underfloor systems. Without cover plate. Without claws. Protection class (Device): IP 20		
white	**0262/11-500**	2CKA000230A0436	1
grey	**0262/13-500**	2CKA000230A0438	1
alpine white	**0262/12-500**	2CKA000230A0437	1

	**F duct-jack** **for communication adapter** For connection of antenna cables e.g.. for TVs with integrated TV-tuner and satellite receiver. With screw-type terminals. For trunk systems, flush-mounted wall boxes and underfloor systems. Protection class (Device): IP 20		
metal clad	**0262-500**	2CKA000230A0440	1

	**Communication adapter** **for Cinch-jacks** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To support 1 or 2 jacks. For trunk systems, flush-mounted wall boxes and underfloor systems. Without cover plate. Without claws. Protection class (Device): IP 20		
white	**0263/11-500**	2CKA000230A0444	1
grey	**0263/13-500**	2CKA000230A0446	1
alpine white	**0263/12-500**	2CKA000230A0445	1

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Multimedia communication adapter

Product	Article-No.	Order-No.	Pack/Qty
	**Cinch-jacks** **for communication adapter** To link analogue audio devices like audio-receiver, amplifier and HiFi-sets. Audio-band 20Hz - 20kHz. Marked white: audio , channel left. With soldering tag. Protection class (Device): IP 20		
alpine white	**0263/04-500**	2CKA000230A0451	1
	**Cinch-jacks** **for communication adapter** To link analogue audio devices like audio-receiver, amplifier and HiFi-sets. Audio-band 20Hz - 20kHz. Marked black: audio , channel left. With soldering tag. Protection class (Device): IP 20		
black	**0263/05-500**	2CKA000230A0452	1
	**Cinch-jacks** **for communication adapter** To link analogue audio devices like audio-receiver, amplifier and HiFi-sets. Audio-band 20Hz - 20kHz. Marked red: audio , channel left. With soldering tag. Protection class (Device): IP 20		
Red	**0263/06-500**	2CKA000230A0453	1
	**Cinch-jacks** **for communication adapter** For connecting analogue video devices, such as DVD players, hard disc recorders, video recorders or receivers. Marked yellow: audio , channel left. With soldering tag. Protection class (Device): IP 20		
yellow	**0263/07-500**	2CKA000230A0454	1
	**Communication adapter** **for Mini-jacks 3,5mm.** Suitable for telephone connection unit cover plates 2539-21x and 1766-xxx. To support 1 or 2 jacks. For trunk systems, flush-mounted wall boxes and underfloor systems. Without cover plate. Without claws. Protection class (Device): IP 20		
white	**0264/11-500**	2CKA000230A0458	1
grey	**0264/13-500**	2CKA000230A0460	1
alpine white	**0264/12-500**	2CKA000230A0459	1
	**Mini-jack 3,5 mm** **for communication adapter** For the connection of mobile terminal devices such as MP3 player (stereo), mobile telephone and smartphones. Audio-band 20Hz - 20kHz. With soldering tag. Protection class (Device): IP 20		
chrome gloss	**0264-500**	2CKA000230A0462	1

Product	Article-No.	Order-No.	Pack/Qty
	**Stereo loudspeaker connection box** [1] With screwless terminals (with screw-type terminals on the back). With 4 terminals. Cable cross-section max. 10 mm2. Polarity is indicated by color. With claw. Protection class (Device): IP 20		
white	**0248/02-101**	2CKA000230A0402	10/100

[1] Suitable for cover telephone unit 1766-xxx and 2539-21x.

	**Stereo loudspeaker connection box** [1] With screwless terminals (with screw-type terminals on the back). With 4 terminals. Cable cross-section max. 10 mm2. Polarity is indicated by color. With claw. Protection class (Device): IP 20		

[1] Suitable for cover telephone unit 1766-xxx and 2539-21x.

	**Stereo loudspeaker connection box** [1] With screwless terminals (with screw-type terminals on the back). With 4 terminals. Cable cross-section max. 10 mm2. Polarity is indicated by color. With claw. Protection class (Device): IP 20		
anthracite	**0248/05-101**	2CKA000230A0404	10/100

[1] Suitable for cover telephone unit 1766-xxx and 2539-21x.

	**Cover plate** For Busch-Radio DAB+ 8215 U-101. For Busch-Radio BTconnect DAB+ 8217 U-101. For Busch-Radio iNet 8216 U.		
white	**8252-92-101-507**	2CKA008200A0270	10
champagne [1]	**8252-93-101-507**	2CKA008200A0271	10
alpine white	**8252-94-101-507**	2CKA008200A0272	10
château-black	**8252-95-101-507**	2CKA008200A0273	10
chalet-white	**8252-96-101-507**	2CKA008200A0274	10

[1] Surface painted.

	**Cover plate** For loudspeaker insert 8223 U.		
white	**8253-92-507**	2CKA008200A0167	1/10
champagne	**8253-93-507**	2CKA008200A0158	1/10
alpine white	**8253-94-507**	2CKA008200A0170	1/10
château-black	**8253-95-507**	2CKA008200A0161	1/10
chalet-white	**8253-96-507**	2CKA008200A0164	1/10

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Multimedia communication adapter

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate** For telephone connection unit. For USB, VGA, HDMI inserts and communication adapter. USB power adapter insert 6472 U-500-101. USB power adapter insert 6475 U-101-500. For loudspeaker connection box. Suitable for part number 0248/0x-101. For data modules. Suitable for Art. No. 0219/12 and 0219/13. For modular outlets with 90° RJ45 outlet from Telegärtner (type MJ and WE). Protection class (Device): IP 20		
white	**2539-92-507**	2CKA001724A4279	10
champagne	**2539-93-507**	2CKA001724A4312	10
alpine white	**2539-94-507**	2CKA001724A4275	10/100
château-black	**2539-95-507**	2CKA001724A4315	10
chalet-white	**2539-96-507**	2CKA001724A4318	10
	**Cover plate for Busch-powerDock** For Busch-powerDock charging cradle.		
white	**6477-92-507**	2CKA006400A0050	10
alpine white	**6477-94-507**	2CKA006400A0052	10
champagne [1])	**6477-93-507**	2CKA006400A0053	10
château-black	**6477-95-507**	2CKA006400A0054	10
chalet-white	**6477-96-507**	2CKA006400A0055	10

[1] Surface painted.

Room thermostats

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted [1]) [2]) [3])** Switch contact opens when the set temperature is reached. With fixing claws. Separate terminal to activate nighttime mode and reduction of room temperature by 4K. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Rated current: 10 A Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1094 U-500	2CKA001032A0512	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3] Switching temperature difference: ± 0.5 K.

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, flush-mounted [1]) [2]) [3])** **Slide switch** With built-in slide switch and control lamp for nightly reduction of 4 K. Switch contact opens when the set temperature is reached. With fixing claws. Separate terminal to activate nighttime mode and reduction of room temperature by 4K. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Rated voltage: 230 V~ Rated current: 10 A Temperature range (Device): 5 °C to 30 °C Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1		
	1095 U-500	2CKA001032A0514	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo-valves, "closed when de-energized", are necessary for connection to thermostat. e.g. Article No. 6164/10-, see KNX chapter.
[3] Switching temperature difference: ± 0.5 K.

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Room thermostats

Product	Article-No.	Order-No.	Pack/Qty



Room thermostat, flush-mounted [1] [2] [3]
1gang 2way
With fixing claws.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 5 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1097 U-500	2CKA001032A0513	1/10
Mounting boxes:	35 mm deep flush 1gang or Dual Box 3070-2/35 BSDB.		
2gang product combinations:	2gang combination with adapter plate APBS in Dual Box only.		

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo valves of "closed or open when de-energized" design are required for the controller. E.g. article no. 6164/10-101.
[3] Switching temperature difference: ± 0.5 K.



Room thermostat, flush-mounted [1]
Remote sensor
With remote sensor and thermal feedback
For underfloor heating.
With built-in slide switch and control lamp for nightly reduction of 4 K.
Switch contact opens when the set temperature is reached.
With fixing claws.
Remote sensor cable length: 4 m.
Sensor =NTC, 10 kilo-ohm at 25 degrees C.
Adjusting range: +10 to +50° C.
Connecting cable: 1mm² to 2.5 mm²
Separate terminal to activate nighttime mode and reduction of room temperature by 4K.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 16 A, cos ϕ 1
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9, British Standard EN 60669-2-1

	1095 UF-507	2CKA001032A0498	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty



Room thermostat, flush-mounted [1] [2] [3]
Change-over contact, setpoint indication, timer
With change-over contact.
Easy adjustment using menu and text-based display.
4 switching times per day can be user-defined for each day of the week.
With fixing claws.
Automatic summer/wintertime switch-over
Power reserve > 10 hours.
To fit cover plate 6435-xxx.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 10 A
Temperature range (Device): 5 °C to 30 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9

	1098 U-101	2CKA001032A0508	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo valves of "closed or open when de-energized" design are required for the controller. E.g. article no. 6164/10-101.
[3] Switching temperature difference: ± 0.5 K.



Room thermostat, flush-mounted [1] [2]
Change-over contact, setpoint indication, timer, remote sensor
With change-over contact.
Easy adjustment using menu and text-based display.
4 switching times per day can be user-defined for each day of the week.
With fixing claws.
Automatic summer/wintertime switch-over
Remote sensor cable length: 4 m.
Sensor =NTC, 10 kilo-ohm at 25 degrees C.
Power reserve > 10 hours
To fit cover plate 6435-xxx.
Class of temperature controller 1
Contribution to space heating energy efficiency 1,0%.
Rated voltage: 230 V~
Rated current: 16 A
Temperature range (Device): 10 °C to 50 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 52 mmEN 60730-2-9

	1098 UF-101	2CKA001032A0509	1/10

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[2] Servo valves of "closed or open when de-energized" design are required for the controller. E.g. article no. 6164/10-101.



Cover plate
for room thermostat
For room thermostats 1094 U, 1097 U.

white	**1794-92-507**	2CKA001710A3868	10
champagne	**1794-93-507**	2CKA001710A3930	10
alpine white	**1794-94-507**	2CKA001710A3866	10
château-black	**1794-95-507**	2CKA001710A3934	10
chalet-white	**1794-96-507**	2CKA001710A3938	10

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Room thermostats

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate for room thermostat** With sliding switch for nightly room temperature reduction. to activate nighttime mode and reduction of room temperature by 4K, for thermostats 1095 U, 1096 U and 1095 UF.		
white	**1795-92-507**	2CKA001710A3869	10
champagne	**1795-93-507**	2CKA001710A3931	10
alpine white	**1795-94-507**	2CKA001710A3867	10
château-black	**1795-95-507**	2CKA001710A3935	10
chalet-white	**1795-96-507**	2CKA001710A3939	10

Accessories

Product	Article-No.	Order-No.	Pack/Qty
	**Surface-mounting box 1gang box** Box for inserts and cover plates with cover frame.		
white	**1701-92-507**	2CKA001799A0971	10
champagne	**1701-93-507**	2CKA001799A0962	10
alpine white	**1701-94-507**	2CKA001799A0974	10
château-black	**1701-95-507**	2CKA001799A0965	10
chalet-white	**1701-96-507**	2CKA001799A0968	10
	**Surface-mounting box 2gang box** Box for inserts and cover plates with cover frame.		
white	**1702-92-507**	2CKA001799A0972	1
champagne	**1702-93-507**	2CKA001799A0963	1
alpine white	**1702-94-507**	2CKA001799A0975	1
château-black	**1702-95-507**	2CKA001799A0966	1
chalet-white	**1702-96-507**	2CKA001799A0969	1
	**Surface-mounting box 3gang box** Box for inserts and cover plates with cover frame.		
white	**1703-92-507**	2CKA001799A0973	1
champagne	**1703-93-507**	2CKA001799A0964	1
alpine white	**1703-94-507**	2CKA001799A0976	1
château-black	**1703-95-507**	2CKA001799A0967	1
chalet-white	**1703-96-507**	2CKA001799A0970	1

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Cover frames

Product	Article-No.	Order-No.	Pack/Qty
	**Cover frame with decorative styling frame 1gang frame** Dimensions: (L x W x D): 84 mm		
entrée-grey	**2511-91-507**	2CKA001725A1531	10/100
white	**2511-92-507**	2CKA001725A1484	10/100
champagne	**2511-93-507**	2CKA001725A1501	10/100
alpine white	**2511-94-507**	2CKA001725A1479	10/100
château-black	**2511-95-507**	2CKA001725A1506	10/100
chalet-white	**2511-96-507**	2CKA001725A1511	10/100
foyer-red	**2511-97-507**	2CKA001725A1516	10/100
bistro-blue	**2511-98-507**	2CKA001725A1521	10/100
maison-beige	**2511-99-507**	2CKA001725A1526	10/100
	**Cover frame with decorative styling frame 2gang frame** For vertical or horizontal installation. Dimensions: (L x W x D): 155 mm		
entrée-grey	**2512-91-507**	2CKA001725A1532	10/100
white	**2512-92-507**	2CKA001725A1485	10/100
champagne	**2512-93-507**	2CKA001725A1502	10/100
alpine white	**2512-94-507**	2CKA001725A1480	10/100
château-black	**2512-95-507**	2CKA001725A1507	10/100
chalet-white	**2512-96-507**	2CKA001725A1512	10/100
foyer-red	**2512-97-507**	2CKA001725A1517	10/100
bistro-blue	**2512-98-507**	2CKA001725A1522	10/100
maison-beige	**2512-99-507**	2CKA001725A1527	10/100
	**Cover frame with decorative styling frame 3gang frame** For vertical or horizontal installation. Dimensions: (L x W x D): 226 mm		
entrée-grey	**2513-91-507**	2CKA001725A1533	10/100
white	**2513-92-507**	2CKA001725A1486	10/100
champagne	**2513-93-507**	2CKA001725A1503	10/100
alpine white	**2513-94-507**	2CKA001725A1481	10/100
château-black	**2513-95-507**	2CKA001725A1508	10/100
chalet-white	**2513-96-507**	2CKA001725A1513	10
foyer-red	**2513-97-507**	2CKA001725A1518	10
bistro-blue	**2513-98-507**	2CKA001725A1523	10
maison-beige	**2513-99-507**	2CKA001725A1528	10/100

Product	Article-No.	Order-No.	Pack/Qty
	**Cover frame with decorative styling frame 4gang frame** For vertical or horizontal installation. Dimensions: (L x W x D): 297 mm		
entrée-grey	**2514-91-507**	2CKA001725A1534	10
white	**2514-92-507**	2CKA001725A1487	10
champagne	**2514-93-507**	2CKA001725A1504	1
alpine white	**2514-94-507**	2CKA001725A1482	10
château-black	**2514-95-507**	2CKA001725A1509	10
chalet-white	**2514-96-507**	2CKA001725A1514	10
foyer-red	**2514-97-507**	2CKA001725A1519	10
bistro-blue	**2514-98-507**	2CKA001725A1524	10
maison-beige	**2514-99-507**	2CKA001725A1529	10
	**Cover frame with decorative styling frame 5gang frame** For vertical or horizontal installation. Dimensions: (L x W x D): 368 mm		
entrée-grey	**2515-91-507**	2CKA001725A1535	10
white	**2515-92-507**	2CKA001725A1488	10
champagne	**2515-93-507**	2CKA001725A1505	1
alpine white	**2515-94-507**	2CKA001725A1483	10
château-black	**2515-95-507**	2CKA001725A1510	10
chalet-white	**2515-96-507**	2CKA001725A1515	10
foyer-red	**2515-97-507**	2CKA001725A1520	10
bistro-blue	**2515-98-507**	2CKA001725A1525	10
maison-beige	**2515-99-507**	2CKA001725A1530	10
	**Decorative styling frame** For styling frames 2511-9x-507, 2512-9x-507, 2513-9x-507, 2514-9x-507, 2515-9x-507		
white	**2516-92-507**	2CKA001726A0220	10/100
champagne	**2516-93-507**	2CKA001726A0230	10/100
alpine white	**2516-94-507**	2CKA001726A0218	10/100
château-black	**2516-95-507**	2CKA001726A0232	10/100
chalet-white	**2516-96-507**	2CKA001726A0234	10/100
attica/pigeon blue	**2516-901-507**	2CKA001726A0222	10/100
silver metallic	**2516-902-507**	2CKA001726A0223	10/100
light green	**2516-903-507**	2CKA001726A0224	10/100
orange	**2516-904-507**	2CKA001726A0225	10/100
yellow	**2516-905-507**	2CKA001726A0226	10/100
apricot	**2516-906-507**	2CKA001726A0227	10/100
luminous	**2516-907-507**	2CKA001726A0228	10/100

Sky Niessen & Skymoon

Touch your imagination.

A light switch range offering a minimalistic design. Very slim and balanced. Distinct materials like glass, stainless steel, ash wood or more modest options; all guaranteeing quality. An object of desire, a jewel to decorate the most exclusive of environments. Feel special every day, feel the sky in your hands with Niessen switches.



01 soft white
02 silver
03 dune
04 taupé
05 comodoro
06 soft black
07 white glass
08 black glass
09 stainless steel
10 antic gold
11 ash frame - white switch
12 natural wenge frame - silver switch
13 stainless steel frame - chrome switch
14 black glass frame - chrome switch
15 white glass frame - chrome switch

Sky Niessen & Skymoon

Selected functions.

01 

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01 Stand-alone FM radio and alarm
02 Loudspeaker 2"
03 Universal push dimmer
04 LED rotary dimmer
05 ABB-free@home® movement detector
06 ABB-free@home® room thermostat
07 ABB-free@home® sensors
08 Card switch
09 Digital timer control
10 Schuko SO + USB type A chargers
11 USB charger outlet
12 SCHUKO® socket outlet with lamp
13 Movement detector
14 VDI connectors (HDMI+USB)
15 1-gang, 1-way single pole switch with lamp
16 Electronic blind control
17 Multiple melody doorbell
18 USB charger outlet
19 TV-FM & satellite outlet
20 Telephone and/or data outlet
21 LED rotary dimmer

01 02 03 04



05 06



Sky Niessen & Skymoon
1- to 5-gang cover frame
01 Side view, 8,5 x 86 mm
02 86 x 86 mm
03 86 x 157 mm
04 86 x 228 mm
05 84 mm x 299 mm
06 84 mm x 370 mm

01 02 03



04



Skymoon
1- to 3-gang cover frame
01 Side view, 6,4 x 86 mm
02 86 x 86 mm
03 86 x 157 mm
04 86 x 228 mm

For more information about light switch ranges visit ABB global web sites.

Sky Niessen & Skymoon

Slim, balanced, perfect.

At just 8.5 mm thick, Sky Niessen & Skymoon barely protrudes from the wall. Thanks to the use of subtle components, with Sky Niessen & Skymoon you will achieve a visual perception of perfection in the decoration of any room.

Maximum slimness 8.5 mm



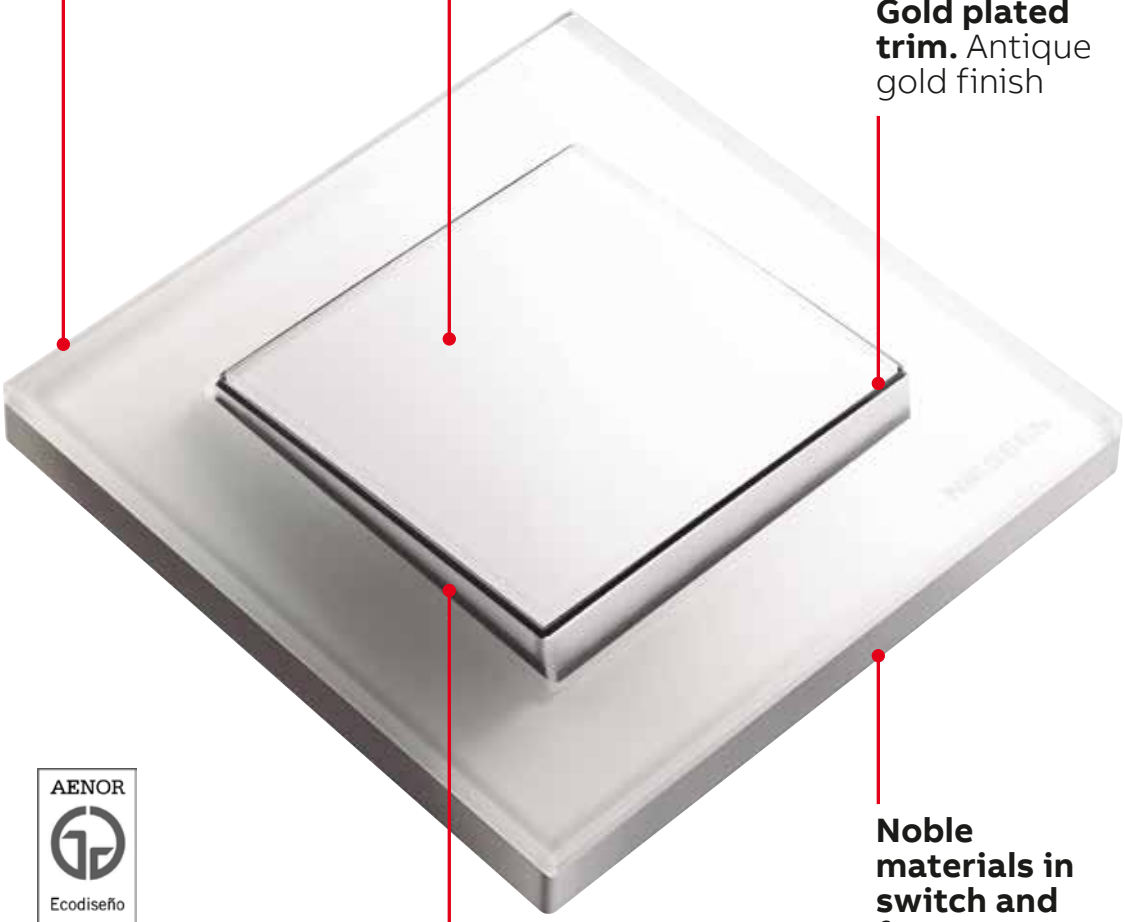
Chrome plated trim

Display Lighting in white

High-quality and durable finishes



Gold plated trim. Antique gold finish



Noble materials in switch and frame

Minimum gap between switch and frame



AENOR
Ecodiseño
ED-0008/2007

Eco-design
The Sky Niessen & Skymoon switch range has been designed following the Product Design and Development Environmental Management regulations: Eco-design.

Sky Niessen & Skymoon series

With Sky Niessen & Skymoon you can offer a higher level of design in your reform projects. Quick and easy, as it perfectly adapts to other installations done with Niessen. The use of Niessen's luxury insert facilitates the installation and renovation of each room.

Switch composition



Insert Frame Rocker

Characteristics
• 250 V~
• 10 AX / 16 AX
• IP21
• CE Compliance Declaration pursuant to: - Low Voltage Directive 2006/95/CE - European Directive RoHS 2011/65/EU - IEC 60669-1 - UNE-EN 60669-1 - UNE 20324-REBT-BT27 - IP21
• AENOR certified product pursuant to: - UNE-EN 60669-1 - UNE-EN 60669-1/A1 - UNE-EN 60669-1/A2

Socket composition



Insert Frame Cover

Characteristics
• 250 V~
• 16 A
• IP21
• Compliant with standards: - European Directive RoHS 2011/65/EU - IEC 60884-1 - UNE-EN 20315 - UNE 20324-REBT-BT27 - IP21
• AENOR certified product pursuant to: - UNE 20315-1-1

Sky Niessen & Skymoon

1-way switches

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 1-gang, 1-way, single pole** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. 200 W SBL: LEDi, CFLi Screwless terminals. 8101 without fixing claws - 8101.8 with claws Optional: locator LED lamp 6192 BL (230 Vac). Rocker code: 8501, 8501.2, 8501.3 & 8501.4.		
	8101	2CLA810100A1001	10
	8101.8	2CLA810180A1001	10

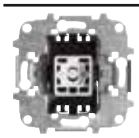
2-way switches

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 1-gang, 2-way, single pole** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. 200 W SBL: LEDi, CFLi Screwless terminals. 8102 without fixing claws - 8102.8 with fixing claws Optional: locator LED lamp 6192 BL (230 Vac). Rocker code: 8501, 8501.2, 8501.3 & 8501.4.		
	8102	2CLA810200A1001	10
	8102.8	2CLA810280A1001	10
	**Switch 1-gang, 2-way, single pole 16A** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. 200 W SBL: LEDi, CFLi Screwless terminals. Included: fixing claws. Optional: locator LED lamp 6192 BL (230 Vac). Rocker code: 8501, 8501.2, 8501.3 & 8501.4.		
	8102.1	2CLA810210A1001	10

Intermediate switches

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 1-gang, intermediate, single pole** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. 200 W SBL: LEDi, CFLi Screwless terminals. Included: fixing claws. Optional: locator LED lamp 6192 BL (230 Vac). Rocker code: 8501, 8501.2, 8501.3 & 8501.4.		
	8110	2CLA811000A1001	10

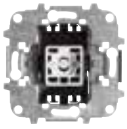
Double pole switches

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 1-gang, 1-way, double pole 16A** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Screwless terminals. Included: fixing claws. Optional: locator/indicator LED lamp 6192 BL (230 Vac). Rocker code: 8501, 8501.2, 8501.3 & 8501.4.		
	8101.1	2CLA810110A1001	10
	**Switch 1-gang, 1-way, double pole** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. Screwless terminals. Included: fixing claws. Optional: locator/indicator LED lamp 6192 BL (230 Vac). Rocker code: 8501, 8501.2, 8501.3 & 8501.4.		
	8101.2	2CLA810120A1001	10

Switches with indicator lamp

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 1-gang, 1-way, single pole** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. 200 W SBL: LEDi, CFLi Screwless terminals. Included: fixing claws. 3 wire connection (neutral conductor required). Included: indicator LED lamp 6192 BL (230 Vac). Rocker code: 8501.3 & 8501.4.		
	8101.5	2CLA810150A1001	10
	**Switch 1-gang, 2-way, single pole** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. 200 W SBL: LEDi, CFLi Screwless terminals. Included: fixing claws. 4 wire connection (neutral conductor required). Indicator: indicator LED lamp 6192 BL (230 Vac). Rocker code: 8501.3 & 8501.4.		
	8102.5	2CLA810250A1001	10

Push-buttons

Product	Article-No.	Order-No.	Pack/Qty
	**Push-button 1-gang, single pole, NO** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. NO: Normally Open. Screwless terminals. 8104 without fixing claws - 8104.8 with fixing claws Optional: locator LED lamp 6192 BL (230 Vac). Rocker code: 8501, 8501.3, 8504, 8504.2, 8504.3 & 8504.4.		
	8104	2CLA810400A1001	10
	8104.8	2CLA810480A1001	10
	**Push-button 1-gang, SP, NO w/ locator lamp** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. NO: Normally Open. Screwless terminals. Included: fixing claws. 3 wire connection (neutral conductor required). Included: locator LED lamp 6192 BL (230 Vac). Rocker code: 8501.3, 8504.3 & 8504.4.		
	8104.5	2CLA810450A1001	10
	**Push-button 1-gang, single pole, NC** Rated voltage: 110 - 250 Vac. Rated current: 10AX. NC: normally closed. Screwless terminals. Included: fixing claws. Optional: locator LED lamp 6192 BL (230 Vac). Rocker code: 8501, 8501.3, 8504, 8504.2, 8504.3 & 8504.4.		
	8104.9	2CLA810490A1001	5

Sky Niessen & Skymoon

Rockers for switches and push-buttons



Rocker for switch, 1-gang
Rocker for switches code:
8101, 8101.1, 8101.2, 8102, 8102.1 & 8110.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**8501 BL**	2CLA850100A1101	20
White w/o chrome	**8501 BB**	2CLA850100A4101	20
Silver	**8501 PL**	2CLA850100A1301	20
Soft Black	**8501 NS**	2CLA850100A1501	20
Dune	**8501 DN**	2CLA850100A6201	20
Taupé	**8501 TP**	2CLA850100A6301	20
Comodoro	**8501 CM**	2CLA850100A1901	20
Antique Gold	**8501 OE**	2CLA850100A1201	20
Stainless Steel	**8501 AI**	2CLA850100A1401	20
White Glass	**8501 CB**	2CLA850100A2101	10
Black Glass	**8501 CN**	2CLA850100A2501	10



Rocker with On/Off symbol, 1-gang
Rocker for switches code:
8101, 8101.1, 8101.2, 8102, 8102.1 & 8110.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**8501.2 BL**	2CLA850120A1101	5
White w/o chrome	**8501.2 BB**	2CLA850120A4101	5
Silver	**8501.2 PL**	2CLA850120A1301	5
Soft Black	**8501.2 NS**	2CLA850120A1501	5
Dune	**8501.2 DN**	2CLA850120A6201	5
Taupé	**8501.2 TP**	2CLA850120A6301	5
Comodoro	**8501.2 CM**	2CLA850120A1901	5
Stainless Steel	**8501.2 AI**	2CLA850120A1401	5
Antique Gold	**8501.2 OE**	2CLA850120A1201	5



Rocker for switch with lens, 1-gang
Rocker for switches code:
8101, 8101.1, 8101.2, 8101.5, 8102, 8102.1, 8102.5 & 8110.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**8501.3 BL**	2CLA850130A1101	10
White w/o chrome	**8501.3 BB**	2CLA850130A4101	10
Silver	**8501.3 PL**	2CLA850130A1301	10
Soft Black	**8501.3 NS**	2CLA850130A1501	10
Dune	**8501.3 DN**	2CLA850130A6201	10
Taupé	**8501.3 TP**	2CLA850130A6301	10
Comodoro	**8501.3 CM**	2CLA850130A1901	10
Stainless Steel	**8501.3 AI**	2CLA850130A1401	10
Antique Gold	**8501.3 OE**	2CLA850130A1201	10
White Glass	**8501.3 CB**	2CLA850130A2101	5
Black Glass	**8501.3 CN**	2CLA850130A2501	5

Rockers with symbols



Rocker with lens & On/Off symbol, 1-gang
Rocker for switches code: 8101, 8101.1, 8101.2, 8101.5, 8102, 8102.1, 8102.5 & 8110.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**8501.4 BL**	2CLA850140A1101	5
White w/o chrome	**8501.4 BB**	2CLA850140A4101	5
Silver	**8501.4 PL**	2CLA850140A1301	5
Soft Black	**8501.4 NS**	2CLA850140A1501	5
Dune	**8501.4 DN**	2CLA850140A6201	5
Taupé	**8501.4 TP**	2CLA850140A6301	5
Comodoro	**8501.4 CM**	2CLA850140A1901	5
Stainless Steel	**8501.4 AI**	2CLA850140A1401	5
Antique Gold	**8501.4 OE**	2CLA850140A1201	5



Rocker with bell symbol, 1-gang
Rocker for push-buttons code: 8104 & 8104.9.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**8504 BL**	2CLA850400A1101	10
White w/o chrome	**8504 BB**	2CLA850400A4101	10
Silver	**8504 PL**	2CLA850400A1301	10
Soft Black	**8504 NS**	2CLA850400A1501	10
Stainless Steel	**8504 AI**	2CLA850400A1401	10
Dune	**8504 DN**	2CLA850400A6201	10
Taupé	**8504 TP**	2CLA850400A6301	10
Comodoro	**8504 CM**	2CLA850400A1901	10
Antique Gold	**8504 OE**	2CLA850400A1201	10



Rocker with light symbol, 1-gang
Rocker for push-buttons code: 8104 & 8104.9.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**8504.2 BL**	2CLA850420A1101	10
White w/o chrome	**8504.2 BB**	2CLA850420A4101	10
Silver	**8504.2 PL**	2CLA850420A1301	10
Soft Black	**8504.2 NS**	2CLA850420A1501	10
Dune	**8504.2 DN**	2CLA850420A6201	10
Taupé	**8504.2 TP**	2CLA850420A6301	10
Comodoro	**8504.2 CM**	2CLA850420A1901	10
Stainless Steel	**8504.2 AI**	2CLA850420A1401	10
Antique Gold	**8504.2 OE**	2CLA850420A1201	10

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Rockers with symbols

Color	Article-No.	Order-No.	Pack/Qty
	**Rocker with bell symbol & lens, 1-gang** Rocker for push-buttons code: 8104, 8104.5 & 8104.9.		
Soft White	**8504.3 BL**	2CLA850430A1101	5
White w/o chrome	**8504.3 BB**	2CLA850430A4101	5
Silver	**8504.3 PL**	2CLA850430A1301	5
Soft Black	**8504.3 NS**	2CLA850430A1501	5
Dune	**8504.3 DN**	2CLA850430A6201	5
Taupé	**8504.3 TP**	2CLA850430A6301	5
Comodoro	**8504.3 CM**	2CLA850430A1901	5
Stainless Steel	**8504.3 AI**	2CLA850430A1401	5
Antique Gold	**8504.3 OE**	2CLA850430A1201	5
	**Rocker with light symbol & lens, 1-gang** Rocker for push-buttons code: 8104, 8104.5 & 8104.9.		
Soft White	**8504.4 BL**	2CLA850440A1101	5
White w/o chrome	**8504.4 BB**	2CLA850440A4101	5
Silver	**8504.4 PL**	2CLA850440A1301	5
Soft Black	**8504.4 NS**	2CLA850440A1501	5
Dune	**8504.4 DN**	2CLA850440A6201	5
Taupé	**8504.4 TP**	2CLA850440A6301	5
Comodoro	**8504.4 CM**	2CLA850440A1901	5
Stainless Steel	**8504.4 AI**	2CLA850440A1401	5
Antique Gold	**8504.4 OE**	2CLA850440A1201	5

Indicator / locator LED lamp

Product	Article-No.	Order-No.	Pack/Qty
	**Indicator/locator LED lamp 230Vac** For 81XX inserts. Lamp: white LED. Long life cycle. Two functions: indicator or locator light. Power consumption: 0,2 mA. Especially recommended for LED and energy saving lamps.		
	6192 BL	2CLA819202A1001	10

Sky Niessen & Skymoon

2-gang switches & push-buttons

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 2-gangs, 1-way, single pole** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. 200 W SBL: LEDi, CFLi Screwless terminals. Included: fixing claws. Rocker code: 8511.		
	8111	2CLA811100A1001	10
	**Switch 2-gangs, 2-way, single pole** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. 200 W SBL: LEDi, CFLi Screwless terminals. Included: fixing claws. Rocker code: 8511.		
	8122	2CLA812200A1001	10
	**Push-button 2-gangs, single pole, NO** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. Screwless terminals. Without interlock. Included: fixing claws. Rocker code: 8511.		
	8144.2	2CLA814420A1001	10

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 2-way + push button 1-way RIGHT NO, SP** Rated voltage: 110 - 250 Vac. 200 W SBL: LEDi, CFLi Rated current: 10 AX. Screwless terminals. Included: fixing claws. Rocker code: 8511 & 8542.		
	8142	2CLA814200A1001	10
	**Push button 1-way LEFT NO + switch 2-way, SP** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. 200 W SBL: LEDi, CFLi Screwless terminals. Included: fixing claws. Rocker code: 8511 & 8542.		
	8142.1	2CLA814210A1001	10
	**Rocker for switch/push-button, 2-gangs** Rocker for switch/push-buttons code: 8111, 8122, 8144.2 & 8142.		
Soft White	**8511 BL**	2CLA851100A1101	20
White w/o chrome	**8511 BB**	2CLA851100A4101	20
Silver	**8511 PL**	2CLA851100A1301	20
Soft Black	**8511 NS**	2CLA851100A1501	20
Dune	**8511 DN**	2CLA851100A6201	20
Taupé	**8511 TP**	2CLA851100A6301	20
Comodoro	**8511 CM**	2CLA851100A1901	20
Stainless Steel	**8511 AI**	2CLA851100A1401	20
Antique Gold	**8511 OE**	2CLA851100A1201	20
White Glass	**8511 CB**	2CLA851100A2101	10
Black Glass	**8511 CN**	2CLA851100A2501	10

Sky Niessen & Skymoon

Card switches

Product	Article-No.	Order-No.	Pack/Qty
	**Card switch 1-gang, 1-way, double pole** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. For 54mm width cards. Included: fixing claws. Included: locator LED lamp 6192 BL (230 Vac). Cover plate code: 8514.		
	8114	2CLA811400A1001	10
	**Card switch 1-gang, 1-way, double pole 16A** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. For 54mm width cards. Included: fixing claws. Included: locator LED lamp 6192 BL (230 Vac). Cover plate code: 8514.		
	8114.1	2CLA811410A1001	10
	**Card switch 1-gang, 2-way, double pole** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. For 54mm width cards. Included: fixing claws. Included: locator LED lamp 6192 BL (230 Vac). Cover plate code: 8514.		
	8114.2	2CLA811420A1001	10
	**Card switch 1-gang, 1-way, SP w/ time delay** Rated voltage: 110 - 250 Vac ; 50 / 60 Hz. Rated current: - Incandescent/halogen: 3.000W@230Vac / 1.600W@127Vac. - Fluorescent: 1.300VA@230Vac / 700VA@127Vac. - Electronic and ferromag. transf. and motors: 3.000VA@230Vac / 1.600VA@127Vac. 3 wire connection (neutral conductor required). For 54 mm. width cards. Locator LED lamp included. Time delayed switch: 5 - 90 seconds. Cover plate code: 8514.		
	8114.5	2CLA811450A1001	1
	**Cover plate for card switch with lens** Cover plate for card switch code: 8114, 8114.1, 8114.2 & 8114.5.		
Soft White	**8514 BL**	2CLA851400A1101	10
White w/o chrome	**8514 BB**	2CLA851400A4101	10
Silver	**8514 PL**	2CLA851400A1301	10
Soft Black	**8514 NS**	2CLA851400A1501	10
Dune	**8514 DN**	2CLA851400A6201	10
Taupé	**8514 TP**	2CLA851400A6301	10
Comodoro	**8514 CM**	2CLA851400A1901	10
Stainless Steel	**8514 AI**	2CLA851400A1401	10
Antique Gold	**8514 OE**	2CLA851400A1201	10

Sky Niessen & Skymoon

Key switches

Product	Article-No.	Order-No.	Pack/Qty
	**Key switch 1-way, 2 positions, single pole** Rated voltage: 110 - 250 Vac. Rated current: 5 A. Key removable in the 2 positions. Unique key for each lock. Suitable for alarms. Cover plate code: 8553.		
	8153	2CLA815300A1001	1
	**Key push button 1-way, 2 positions, SP** Rated voltage: 110 - 250 Vac. Rated current: 5 A. Key removable in “OFF” position. Unique key for each lock. Suitable for alarms. Cover plate code: 8553.		
	8153.2	2CLA815320A1001	1
	**Cover plate for 2 position key switch** Cover plate for key switch code: 8153 & 8153.2.		
Soft White	**8553 BL**	2CLA855300A1101	1
White w/o chrome	**8553 BB**	2CLA855300A4101	1
Silver	**8553 PL**	2CLA855300A1301	1
Soft Black	**8553 NS**	2CLA855300A1501	1
Dune	**8553 DN**	2CLA855300A6201	1
Taupé	**8553 TP**	2CLA855300A6301	1
Comodoro	**8553 CM**	2CLA855300A1901	1
Stainless Steel	**8553 AI**	2CLA855300A1401	1
Antique Gold	**8553 OE**	2CLA855300A1201	1
	**Key switch 2-way, 3 positions, single pole** Rated voltage: 110 - 250 Vac. Rated current: 150 mA. Key removable in “OFF” position. Unique key for each lock. Suitable for blinds, shutters, etc. Cover plate code: 8553.1.		
	8153.1	2CLA815310A1001	1
	**Cover plate for 3 position key switch** Cover plate for key switch code: 8153.1.		
Soft White	**8553.1 BL**	2CLA855310A1101	1
White w/o chrome	**8553.1 BB**	2CLA855310A4101	1
Silver	**8553.1 PL**	2CLA855310A1301	1
Soft Black	**8553.1 NS**	2CLA855310A1501	1
Dune	**8553.1 DN**	2CLA855310A6201	1
Taupé	**8553.1 TP**	2CLA855310A6301	1
Comodoro	**8553.1 CM**	2CLA855310A1901	1
Stainless Steel	**8553.1 AI**	2CLA855310A1401	1
Antique Gold	**8553.1 OE**	2CLA855310A1201	1

Blind controls

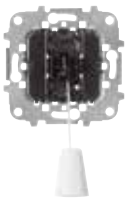
Product	Article-No.	Order-No.	Pack/Qty
	**Push-button blind control 2-gangs** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. Direct control. Interlocked gangs. Included: fixing claws. Rocker code: 8544.		
	8144	2CLA814400A1001	10
	**Switch blind control 2-gangs** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. Direct control. Interlocked gangs. Included: fixing claws. Rocker code: 8544.		
	8144.1	2CLA814410A1001	10
	**Rocker for blind switch/push-button** Rocker for blind switch/push-button code: 8144 & 8144.1.		
Soft White	**8544 BL**	2CLA854400A1101	10
White w/o chrome	**8544 BB**	2CLA854400A4101	10
Silver	**8544 PL**	2CLA854400A1301	10
Soft Black	**8544 NS**	2CLA854400A1501	10
Dune	**8544 DN**	2CLA854400A6201	10
Taupé	**8544 TP**	2CLA854400A6301	10
Comodoro	**8544 CM**	2CLA854400A1901	10
Stainless Steel	**8544 AI**	2CLA854400A1401	10
Antique Gold	**8544 OE**	2CLA854400A1201	10
White Glass	**8544 CB**	2CLA854400A2101	5
Black Glass	**8544 CN**	2CLA854400A2501	5

Sky Niessen & Skymoon

Blind controls

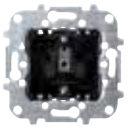
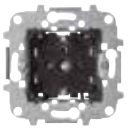
Product	Article-No.	Order-No.	Pack/Qty
	**Electronic blind control 1-gang** Rated voltage: 110 - 250 Vac ; 50 / 60 Hz. Rated current: 700VA@230Vac / 350VA@127Vac. Direct control. Functions: - PERS: standard blinds control. Optionally other 8144 inserts can be connected to the 8130.3 to control the blind from other locations. - LAM: venetian type blinds control. Optionally other 8144 inserts can be connected to the 8130.3 to control the blind from other locations. - Centralization (CEN): one 8130.3 can control all the 8130.3 of a line centrally. Included: fixing claws. Electronic rocker code: 8530.		
	8130.3	2CLA813030A1001	1
	**Electronic rocker for blind control** Electronic rocker for blind control code: 8130.3.		
Soft White	**8530 BL**	2CLA853000A1101	1
White w/o chrome	**8530 BB**	2CLA853000A4101	1
Silver	**8530 PL**	2CLA853000A1301	1
Soft Black	**8530 NS**	2CLA853000A1501	1
Dune	**8530 DN**	2CLA853000A6201	5
Taupé	**8530 TP**	2CLA853000A6301	5
Comodoro	**8530 CM**	2CLA853000A1901	5
Stainless Steel	**8530 AI**	2CLA853000A1401	1
Antique Gold	**8530 OE**	2CLA853000A1201	1

Pullcord switches

Product	Article-No.	Order-No.	Pack/Qty
	**Pullcord switch 1-gang, 1-way, single pole** Rated voltage: 110 - 250 Vac. Rated current: 16 A. Screwless terminals. Included: fixing claws. Cord length: 2 meters. Cover plate code: 8507.		
	8148	2CLA814800A1001	5
	**Cover for pull cord switch** Cover plate for pullcord switch code: 8148.		
Soft White	**8507 BL**	2CLA850700A1101	10
White w/o chrome	**8507 BB**	2CLA850700A4101	10
Silver	**8507 PL**	2CLA850700A1301	10
Soft Black	**8507 NS**	2CLA850700A1501	10
Dune	**8507 DN**	2CLA850700A6201	5
Taupé	**8507 TP**	2CLA850700A6301	5
Comodoro	**8507 CM**	2CLA850700A1901	5
Stainless Steel	**8507 AI**	2CLA850700A1401	10
Antique Gold	**8507 OE**	2CLA850700A1201	10

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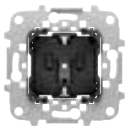
Schuko socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**Schuko socket outlet** Rated voltage: 250 Vac. Rated current: 16 A. Type F: 2P + E. Shuttered for child safety. Screw terminals. Without fixing claws code: 8188. With fixing claws code: 8188.5. Cover plate code: 8588.		
	8188	2CLA818800A1001	10
	8188.5	2CLA818850A1001	10
	**Schuko socket outlet screwless connection** Rated voltage: 250 Vac. Rated current: 16 A. Type F: 2P + E. Shuttered for child safety. Screwless terminals. Without fixing claws. Cover plate code: 8588.		
	8188.6	2CLA818860A1001	10
	**Cover plate for Schuko socket outlet** Cover plate for Schuko socket outlet code: 8188, 8188.5 & 8188.6.		
Soft White	**8588 BL**	2CLA858800A1101	20
White w/o chrome	**8588 BB**	2CLA858800A4101	20
Silver	**8588 PL**	2CLA858800A1301	20
Soft Black	**8588 NS**	2CLA858800A1501	20
Dune	**8588 DN**	2CLA858800A6201	20
Taupé	**8588 TP**	2CLA858800A6301	20
Comodoro	**8588 CM**	2CLA858800A1901	20
Stainless Steel	**8588 AI**	2CLA858800A1401	20
Antique Gold	**8588 OE**	2CLA858800A1201	20
White Glass	**8588 CB**	2CLA858800A2101	10
Black Glass	**8588 CN**	2CLA858800A2501	10

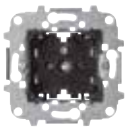
Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate for Schuko socket outlet** Suitable to identify special circuits. Cover plate for Schuko socket outlet code: 8188, 8188.5 & 8188.6.		
Red	**8588 RJ**	2CLA858800A7001	5
Green	**8588 VD**	2CLA858800A8001	5
Orange	**8588 NA**	2CLA858800A9001	5
	**Cover plate for Schuko socket outlet w/ lid** Cover plate for Schuko socket outlet code: 8188, 8188.5 & 8188.6.		
Soft White	**8588.1 BL**	2CLA858810A1101	10
White w/o chrome	**8588.1 BB**	2CLA858810A4101	10
Silver	**8588.1 PL**	2CLA858810A1301	10
Soft Black	**8588.1 NS**	2CLA858810A1501	10
Dune	**8588.1 DN**	2CLA858810A6201	10
Taupé	**8588.1 TP**	2CLA858810A6301	10
Comodoro	**8588.1 CM**	2CLA858810A1901	10
Stainless Steel	**8588.1 AI**	2CLA858810A1401	5
Antique Gold	**8588.1 OE**	2CLA858810A1201	5
	**Schuko socket outlet with indicator lamp** Rated voltage: 250 Vac. Rated current: 16 A. Type F: 2P + E. Shuttered for child safety. Screw terminals. Without fixing claws. Included: indicator LED lamp. Cover plate code: 8588.8		
	8188.8	2CLA818880A1001	5
	**Cover plate for Schuko socket outlet w/ lens** Cover plate for Schuko socket outlet code: 8188.8.		
Soft White	**8588.8 BL**	2CLA858880A1101	10
White w/o chrome	**8588.8 BB**	2CLA858880A4101	10
Silver	**8588.8 PL**	2CLA858880A1301	10
Soft Black	**8588.8 NS**	2CLA858880A1501	10
Dune	**8588.8 DN**	2CLA858880A6201	10
Taupé	**8588.8 TP**	2CLA858880A6301	10
Comodoro	**8588.8 CM**	2CLA858880A1901	10
Stainless Steel	**8588.8 AI**	2CLA858880A1401	10
Antique Gold	**8588.8 OE**	2CLA858880A1201	10

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Schuko socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**Schuko socket outlet for plain covers** Rated voltage: 250 Vac. Rated current: 16 A. Type F: 2P + E. Shuttered for child safety. Screw terminals. Without fixing claws. Cover plate code: 8588.9.		
	8188.9	2CLA818890A1001	10
	**Flat cover plate for Schuko socket outlet** Cover plate for Schuko socket outlet code: 8188.9.		
Soft White	**8588.9 BL**	2CLA858890A1101	20
White w/o chrome	**8588.9 BB**	2CLA858890A4101	20
Silver	**8588.9 PL**	2CLA858890A1301	20
Soft Black	**8588.9 NS**	2CLA858890A1501	20
Dune	**8588.9 DN**	2CLA858890A6201	20
Taupé	**8588.9 TP**	2CLA858890A6301	20
Comodoro	**8588.9 CM**	2CLA858890A1901	20
Stainless Steel	**8588.9 AI**	2CLA858890A1401	20
Antique Gold	**8588.9 OE**	2CLA858890A1201	20
White Glass	**8588.9 CB**	2CLA858890A2101	10
Black Glass	**8588.9 CN**	2CLA858890A2501	10
	**Schuko socket outlet + USB charger 2x 200 mA, 2 outlets** **Schuko soclet outlet:** Rated voltage: 250 Vac Rated current: 16A Type F: 2P + E Shuttered for child safety **USB charger type A:** Output voltage: 5 Vdc ±5%. Output current: 2.000 mA. Power consumption in stand-by: <= 0,015 W Energy efficiency: >= 79%. Operating temperature: 0ºC to 45ºC* Overheat protection LED indicator Screw terminals Without fixing claws Cover plate code: 8588.3 XX		
	8188.3	2CLA818830A1001	1
	**Cover plate for Schuko socket outlet + USB charger** Cover plate for Schuko socket outlet + USB charger 2x 200 mA, 2 outlets code: 8188.3		
Soft White	**8588.3 BL**	2CLA818830A1101	1
White w/o chrome	**8588.3 BB**	2CLA818830A4101	1
Silver	**8588.3 PL**	2CLA818830A1301	1
Soft Black	**8588.3 NS**	2CLA818830A1501	1
Dune	**8588.3 DN**	2CLA858830A6201	1
Taupé	**8588.3 TP**	2CLA858830A6301	1
Comodoro	**8588.3 CM**	2CLA858830A1901	1
Stainless Steel	**8588.3 AI**	2CLA818830A1401	1
Antique Gold	**8588.3 OE**	2CLA818830A1201	1

French / earth-pin socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**French/Earth-pin socket outlet** Rated voltage: 250 Vac. Rated current: 16 A. Type E: 2P + E. Shuttered for child safety. Screw terminals. Included: fixing claws. Cover plate code: 8587.		
	8187	2CLA818700A1001	10
	**Cover plate for French socket outlet** Cover plate for Schuko socket outlet code: 8187.		
Soft White	**8587 BL**	2CLA858700A1101	20
White w/o chrome	**8587 BB**	2CLA858700A4101	20
Silver	**8587 PL**	2CLA858700A1301	20
Soft Black	**8587 NS**	2CLA858700A1501	20
Dune	**8587 DN**	2CLA858700A6201	20
Taupé	**8587 TP**	2CLA858700A6301	20
Comodoro	**8587 CM**	2CLA858700A1901	20
Stainless Steel	**8587 AI**	2CLA858700A1401	20
Antique Gold	**8587 OE**	2CLA858700A1201	20
	**French/Earth-pin socket outlet for plain covers** Rated voltage: 250 Vac. Rated current: 16 A. Type E: 2P + E. Shuttered for child safety. Screwless terminals. Included: fixing claws. Cover plate code: 8587.9.		
	8187.9	2CLA818790A1001	10
	**Flat cover plate for French socket outlet** Cover plate for French / earth-pin socket outlet code: 8187.9.		
Soft White	**8587.9 BL**	2CLA858790A1101	10
White w/o chrome	**8587.9 BB**	2CLA858790A4101	10
Silver	**8587.9 PL**	2CLA858790A1301	10
Soft Black	**8587.9 NS**	2CLA858790A1501	10
Dune	**8587.9 DN**	2CLA858790A6201	20
Taupé	**8587.9 TP**	2CLA858790A6301	20
Comodoro	**8587.9 CM**	2CLA858790A1901	20
Stainless Steel	**8587.9 AI**	2CLA858790A1401	10
Antique Gold	**8587.9 OE**	2CLA858790A1201	10
White Glass	**8587.9 CB**	2CLA858790A2101	10
Black Glass	**8587.9 CN**	2CLA858790A2501	10

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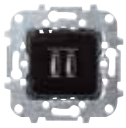
Push-buttons

Product	Article-No.	Order-No.	Pack/Qty
	**Universal socket outlet** Rated voltage: 125 / 250 Vac. Rated current: 15 / 16 A. Multiple type: 2P + E. Shuttered for child safety. Screw terminals. Without fixing claws. Cover plates: - Euroamerican type (Type B+C: 2P + E / NEMA 5-15R): 8538. - Universal type (Multiple type: 2P + E): 8539.		
	8139	2CLA813900A1001	10

	**Cover plate for Euroamerican socket outlet** Cover plate with Euroamerican type figure for universal socket outlet code: 8139.		
Soft White	**8538 BL**	2CLA853800A1101	10
Silver	**8538 PL**	2CLA853800A1301	10
Soft Black	**8538 NS**	2CLA853800A1501	10
Dune	**8538 DN**	2CLA858800A6201	20
Taupé	**8538 TP**	2CLA858800A6301	20
Comodoro	**8538 CM**	2CLA858800A1901	20
Stainless Steel	**8538 AI**	2CLA853800A1401	10
Antique Gold	**8538 OE**	2CLA853800A1201	10

	**Cover plate for Universal socket outlet** Cover plate with universal type figure for universal socket outlet code: 8139.		
Soft White	**8539 BL**	2CLA853900A1101	10
Silver	**8539 PL**	2CLA853900A1301	10
Soft Black	**8539 NS**	2CLA853900A1501	10
Dune	**8539 DN**	2CLA853900A6201	10
Taupé	**8539 TP**	2CLA853900A6301	10
Comodoro	**8539 CM**	2CLA853900A1901	10
Stainless Steel	**8539 AI**	2CLA853900A1401	10
Antique Gold	**8539 OE**	2CLA853900A1201	10

USB chargers

Product	Article-No.	Order-No.	Pack/Qty
	**USB charger 1.500mA, 2 outlets** Input voltage: 100 - 240 Vac ±10% ; 50 / 60 Hz. Input current: 0,20 A (with maximum load). Output voltage: 5 Vdc ±5%. Output current: 1.500 mA (total for both gangs). Power consumption in stand-by: <= 0,3W@230Vac. Energy efficiency: >= 71%. Operating temperature: 0 ºC to 35 ºC. Mounting grid delivered with the cover plate (without fixing claws). Cover plate code: 8585.		
	8185	2CLA818500A1001	1

	**USB charger A+C 18W, 2 outlets** Input voltage: 100 - 240 Vac ±10% ; 50 / 60 Hz. Input current: 0,20 A (with maximum load). Output voltage: 5 Vdc ±5%. Output power: 18W. Operating temperature: 0 ºC to 45 ºC. Without fixing claws. Cover plate code: 8585.		
	8185.1	2CLA818510A1001	1

	**Cover plate for USB chargers** Cover plate for USB chargers 8185 & 8185.1		
Soft White	**8585 BL**	2CLA858500A1101	5
White w/o chrome	**8585 BB**	2CLA858500A4101	5
Silver	**8585 PL**	2CLA858500A1301	5
Soft Black	**8585 NS**	2CLA858500A1501	5
Dune	**8585 DN**	2CLA858500A6201	5
Taupé	**8585 TP**	2CLA858500A6301	5
Comodoro	**8585 CM**	2CLA858500A1901	5
Stainless Steel	**8585 AI**	2CLA858500A1401	5
White Glass	**8585 CB**	2CLA858500A2101	1
Black Glass	**8585 CN**	2CLA858500A2501	1

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USB chargers

Product	Article-No.	Order-No.	Pack/Qty
	**USB charger 2.000 mA, 1 outlet** Input voltage: 100 - 230 Vac ±10% ; 50 / 60 Hz. Input current: 0,20 A (with maximum load). Output voltage: 5 Vdc ±5%. Output current: 2.000 mA. Power consumption in stand-by: <= 0,01W@230Vac. Energy efficiency: >= 79%. Operating temperature: 0 ºC to 45 ºC. Without fixing claws. Cover plate code: 8585.2.		
	8185.2	2CLA818520A1001	1
	**Cover plate for USB charger 2A** Cover plate for USB charger code: 8185.2.		
Soft White	**8585.2 BL**	2CLA858520A1101	1
White w/o chrome	**8585.2 BB**	2CLA858520A4101	1
Silver	**8585.2 PL**	2CLA858520A1301	1
Soft Black	**8585.2 NS**	2CLA858520A1501	1
Dune	**8585.2 DN**	2CLA858520A6201	1
Taupé	**8585.2 TP**	2CLA858520A6301	1
Comodoro	**8585.2 CM**	2CLA858520A1901	1
Stainless Steel	**8585.2 AI**	2CLA858520A1401	1
Antique Gold	**8585.2 OE**	2CLA858520A1201	1
White Glass	**8585.2 CB**	2CLA858520A2101	1
Black Glass	**8585.2 CN**	2CLA858520A2501	1
	**USB charger 2x 2.000mA, 2 outlets** Input voltage: 100 - 230 Vac ±10%; 50/60 Hz. Input current: 0,20 A (with maximum load). Output voltage: 5 Vdc ±5%. Output current: 2.000 mA. Power consumption in stand-by: <= 0,01W@230Vac. Energy efficiency: >= 79%. Operating temperature: 0 ºC to 45 ºC. Without fixing claws. Cover plate code: 8585.3.		
	8185.3	2CLA818530A1001	1
	**Cover plate for USB charger 2x 2 A** Cover plate for USB charger code: 8185.3.		
Soft White	**8585.3 BL**	2CLA858530A1101	1
White w/o chrome	**8585.3 BB**	2CLA858530A4101	1
Silver	**8585.3 PL**	2CLA858530A1301	1
Soft Black	**8585.3 NS**	2CLA858530A1501	1
Dune	**8585.3 DN**	2CLA858530A6201	1
Taupé	**8585.3 TP**	2CLA858530A6301	1
Comodoro	**8585.3 CM**	2CLA858530A1901	1
Stainless Steel	**8585.3 AI**	2CLA858530A1401	1
Antique Gold	**8585.3 OE**	2CLA858530A1201	1
White Glass	**8585.3 CB**	2CLA858530A2101	1
Black Glass	**8585.3 CN**	2CLA858530A2501	1

Protection devices

Product	Article-No.	Order-No.	Pack/Qty
	**Circuit breaker 6A & RCD 10mA** Rated voltage: 120 - 230 Vac ; 50 / 60 Hz. Rated current: 6 A. Braking capacity: 1.500 A. Residual current (sensitivity - IΔn): 10 mA. C type magneto-thermic protection. A type residual current protection. Two-pole (1P + N) with 1 protected pole. Without fixing claws. Cover plate code: 8534.		
	8134.1	2CLA813410A1001	1
	**Circuit breaker 10A & RCD 10mA** Rated voltage: 120 - 230 Vac ; 50 / 60 Hz. Rated current: 10 A. Braking capacity: 3.000 A. Residual current (sensitivity - IΔn): 10 mA. C type magneto-thermic protection. A type residual current protection. Two-pole (1P + N) with 1 protected pole. Without fixing claws. Cover plate code: 8534.		
	8134.2	2CLA813420A1001	1
	**Circuit breaker 16A & RCD 10mA** Rated voltage: 120 - 230 Vac ; 50 / 60 Hz. Rated current: 16 A. Braking capacity: 3.000 A. Residual current (sensitivity - IΔn): 10 mA. C type magneto-thermic protection. A type residual current protection. Two-pole (1P + N) with 1 protected pole. Without fixing claws. Cover plate code: 8534.		
	8134.3	2CLA813430A1001	1
	**Cover plate for circuit breaker & RCD** Cover plate for circuit breaker & RCD code: 8134.1, 8134.2 & 8134.3.		
Soft White	**8534 BL**	2CLA853400A1101	1
Silver	**8534 PL**	2CLA853400A1301	1
Soft Black	**8534 NS**	2CLA853400A1501	1
Dune	**8534 DN**	2CLA853400A6201	1
Taupé	**8534 TP**	2CLA853400A6301	1
Comodoro	**8534 CM**	2CLA853400A1901	1
Stainless Steel	**8534 AI**	2CLA853400A1401	1
Antique Gold	**8534 OE**	2CLA853400A1201	1

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TV outlets

Product	Article-No.	Order-No.	Pack/Qty
	**TV / R terminal outlet** TV and R double outlet - Final. Without filter. Installation as a terminal outlet connected to a tap-off or splitter (without terminal resistor). Connection: screw terminal and clamp. Output connectors (C1 / C2): IEC male 9,52mm diam. / IEC female 9,52 mm. diam. Frequency range (I/O / C1 / C2): 5 - 862 MHz / 5 - 862 MHz / 5 - 862 MHz. Basic loss (FM / DAB / VHF / UHF): 10,0±0,7 dB / 10,0 ±1,5 dB / 4,0±1,5 dB / 3,0±0,5 dB. Isolation (FM / TV): >14 / >14. Return loss (FM / TV): >18 / >10. Included: fixing claws. Cover plate code: 8550.		
	8150	2CLA815000A1001	10
	**TV / R final outlet - CATV outlet** TV and R double outlet - CATV outlet - Final. With filter. Installation as a terminal outlet connected to a tap-off or splitter (without terminal resistor). Connection: screw terminal and clamp. Output connectors (C1 / C2): IEC male 9,52 mm. diam. / IEC female 9,52 mm. diam. Frequency range (C1 / C2): 5 - 68 & 118 - 1.000 MHz / 87,5 - 108 MHz. Basic loss (R / FM / TV): 0,3±0,1 dB / 1,1 ±0,3 dB / 0,9±0,3 dB. Isolation (FM / TV): >18 / >16. Selectivity (FM / TV): >10 / >18. Return loss (R / FM / TV): >18 / >16 / >18. Chroma-luminance delay (ns): <10. Included: fixing claws. Cover plate code: 8550.		
	8150.3	2CLA815030A1001	10
	**TV / R loop-through outlet** TV and R double outlet - Intermediate. Installation as an intermediate outlet in series connected to each other. From 2nd to 4th floor. Connection: screw terminal and clamp. Output connectors (C1 / C2): IEC male 9,52mm diam. / IEC female 9,52 mm. diam. Frequency range (I/O / C1 / C2): 13 - 862 MHz / 13 - 862 MHz / 13 - 862 MHz. Basic loss (FM / DAB / VHF / UHF): 25±1,5 dB / 25 ±1,5 dB / 8,0±0,7 dB / 8,0±0,7 dB. Through loss (FM / VHF / UHF): 2,0±0,3 dB / 2,0±0,5 dB / 2,0±0,5 dB. Directivity (FM / TV): >12 dB / >9 dB. Isolation (FM / TV): >16 / >15. Return loss (FM / TV): >12 / >12. Included: fixing claws. Cover plate code: 8550.		
	8150.7	2CLA815070A1001	10

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate for TV/R outlet** Cover plate for TV outlet code: 8150, 8150.3 & 8150.7.		
Soft White	**8550 BL**	2CLA855000A1101	20
White w/o chrome	**8550 BB**	2CLA855000A4101	20
Silver	**8550 PL**	2CLA855000A1301	20
Soft Black	**8550 NS**	2CLA855000A1501	20
Dune	**8550 DN**	2CLA855000A6201	20
Taupé	**8550 TP**	2CLA855000A6301	20
Comodoro	**8550 CM**	2CLA855000A1901	20
Stainless Steel	**8550 AI**	2CLA855000A1401	20
Antique Gold	**8550 OE**	2CLA855000A1201	20
White Glass	**8550 CB**	2CLA855000A2101	5
Black Glass	**8550 CN**	2CLA855000A2501	5

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TV outlets

Product	Article-No.	Order-No.	Pack/Qty
	**TV-R/SAT terminal outlet** TV-R and SAT double outlet - Final. Installation as a terminal outlet connected to a tap-off or splitter (without terminal resistor). Connection: screw terminal and clamp. Output connectors (C1 / C2): IEC male 9,52 mm. diam. / IEC female 9,52 mm. diam. Frequency range (I/O / C1 / C2): 5 - 2.400 MHz / 5 - 862 MHz / 930 - 2.400 MHz. Basic loss (FM / TV / SAT): 0,2±0,1 dB / 1,0 ±0,5 dB / 1,2±0,6 dB. Isolation (FM / TV / SAT): >45 / >14 / >14. Selectivity (TV-R / SAT): >15 / >15. Return loss (VR / FM / TV / SAT): >25 / >25 / >14 / >10. DC path (Vdc / mA / Tono): 24 max. / 500 max. / 22 KHz - DiSEqC. Included: fixing claws. Cover plate code: 8550.1.		
	8151.3	2CLA815130A1001	10
	**TV-R/SAT final outlet** TV-R and SAT double outlet - Final. Installation as a terminal outlet connected to a series with loop-through outlets. Connection: screw terminal and clamp. Output connectors (C1 / C2): IEC male 9,52 mm. diam. / IEC female 9,52 mm. diam. Frequency range (I/O / C1 / C2): 5 - 2.400 MHz / 5 - 2.400 MHz / 5 - 2.400 MHz. Basic loss (FM / TV / SAT): 3,7±0,3 dB / 4,0±0,5 dB / 5,0±1,2 dB. Isolation (FM / TV / SAT): >20 / >20 / >14. Return loss (VR / FM / TV / SAT): >16 / >16 / >16 / >9. DC path (Vdc / mA / Tono): 24 max. / 500 max. / 22 KHz - DiSEqC. Included: fixing claws. Cover plate code: 8550.1.		
	8151.7	2CLA815170A1001	10
	**TV-R/SAT loop-through outlet** TV-R and SAT double outlet - Intermediate Installation as an intermediate outlet in series connected to each other. Output connectors (C1 / C2): IEC male 9,52 mm. diam. / IEC female 9,52 mm. diam. Frequency range (I/O / C1 / C2): 5 - 2.400 MHz / 5 - 2.400 MHz / 5 - 2.400 MHz. Basic loss (FM / TV / SAT): 10,0±1,0 dB / 10,0±1,0 dB / 12,0±2,0 dB. Through loss (FM / TV / SAT): 2,5±0,5 / 2,5±0,7 / 3,0±1,0. Directivity (FM / TV / SAT): >20 / >12 / >5. Isolation (FM / TV / SAT): >45 / >30 / >28. Return loss (VR / FM / TV / SAT): >13 / >13 / >12 / >12. DC path (Vdc / mA / Tono): 24 max. / 500 max. / 22 KHz - DiSEqC. Included: fixing claws. Cover plate code: 8550.1.		
	8151.8	2CLA815180A1001	10

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate for TV-R/SAT outlet** Cover plate for TV outlet code: 8151.3 , 8150.7 & 8150.8.		
Soft White	**8550.1 BL**	2CLA855010A1101	20
White w/o chrome	**8550.1 BB**	2CLA855010A4101	20
Silver	**8550.1 PL**	2CLA855010A1301	20
Soft Black	**8550.1 NS**	2CLA855010A1501	20
Dune	**8550.1 DN**	2CLA855000A6201	20
Taupé	**8550.1 TP**	2CLA855000A6301	20
Comodoro	**8550.1 CM**	2CLA855000A1901	20
Stainless Steel	**8550.1 AI**	2CLA855010A1401	20
Antique Gold	**8550.1 OE**	2CLA855010A1201	20
White Glass	**8550.1 CB**	2CLA855000A2101	5
Black Glass	**8550.1 CN**	2CLA855000A2501	5

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Telephone & data outlets

Product	Article-No.	Order-No.	Pack/Qty
	**Telephone outlet RJ12** RJ12 type connector. 6 contacts. Suitable for 2 (6P2C), 4 (6P4C) or 6 (6P6C) RJ11 and RJ12 jacks. Screw terminals. Without fixing claws. Cover plate code: 8517.		
	8117	2CLA811700A1001	10
	**Data outlet RJ45 Cat.5e UTP** RJ45 type connector. Cat.5e UTP. In compliance with ANSI/TIA/EIA 568B.2, ISO/IEC11801 & EN50173. Universal TIA/EIA 568A and 568B labeling. Housing: ABS UL-94-0. Durability: 750 cycles min. (ISO/IEC 11801, IEC 60603-7-4) IDC: PC UL94V-0, Accept 22-26AWG solid wire. Contact: RJ45 8P8C, 3~50 micro-inch gold plating over nickel plated on contact area. Tool-less wiring. Without fixing claws. Cover plate code: 8517.		
	8118	2CLA811800A1001	10
	**Cover plate for telephone/data outlets** Cover plate for telephone/data outlet code: 8117 & 8118.		
Soft White	**8517 BL**	2CLA851700A1101	10
White w/o chrome	**8517 BB**	2CLA851700A4101	10
Silver	**8517 PL**	2CLA851700A1301	10
Soft Black	**8517 NS**	2CLA851700A1501	10
Dune	**8517 DN**	2CLA851700A6201	10
Taupé	**8517 TP**	2CLA851700A6301	10
Comodoro	**8517 CM**	2CLA851700A1901	10
Stainless Steel	**8517 AI**	2CLA851700A1401	10
Antique Gold	**8517 OE**	2CLA851700A1201	10
White Glass	**8517 CB**	2CLA851700A2101	5
Black Glass	**8517 CN**	2CLA851700A2501	5

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate for data outlet 2-gang at 45º** Cover plate at 45º for two data connector housing (refs.: 2016, 2016.1, 2016.2 and 2016.3). With labeling area for stickers. With shutters.		
Soft White	8516.8 BL	2CLA851680A1101	5
Silver	8516.8 PL	2CLA851680A1301	5
Soft Black	8516.8 NS	2CLA851680A1501	5
Dune	8516.8 DN	2CLA851680A6201	5
Taupé	8516.8 TP	2CLA851680A6301	5
Comodoro	8516.8 CM	2CLA851680A1901	5
Stainless Steel	8516.8 AI	2CLA851680A1401	5
Antique Gold	8516.8 OEL	2CLA851680A1201	5
	**Housing for data outlets – Keystone, 3M & AMP type.** Housing for connectors with Keystone, 3M and AMP type clipping system. Cover plate code: 8516.8.		
	2016	2CLA201600A1001	10
	**Housing for data outlets – Systimax type.** Housing for connectors with Systimax type clipping system. Cover plate code: 8516.8.		
	2016.1	2CLA201610A1001	10
	**Housing for data outlets – Paduit type.** Housing for connectors with Panduit type clipping system. Cover plate code: 8516.8.		
	2016.2	2CLA201620A1001	10
	**Housing for data outlets – R&M type.** Housing for connectors with Keystone, R&M type clipping system. Cover plate code: 8516.8.		
	2016.3	2CLA201630A1001	10

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Telephone & data outlets

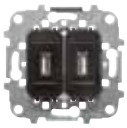
Product	Article-No.	Order-No.	Pack/Qty
	**Telephone outlet RJ12** RJ12 type connector. 6 contacts. Suitable for 2 (6P2C), 4 (6P4C) or 6 (6P6C) RJ11 and RJ12 jacks. Screw terminals. Mounting grid delivered with the cover plate. Cover plate code: 8518.1 & 8518.2.		
	2017.2	2CLA201720A1001	10
	**Telephone outlet RJ45 Cat.3** RJ45 type connector. Cat.3. 8 contacts. Suitable for 8 (8P8C) RJ45 jacks. Tool-less wiring. Mounting grid delivered with the cover plate. Cover plate code: 8518.1 & 8518.2.		
	2017.3	2CLA201730A1001	10
	**Data outlet RJ45 Cat.5e UTP** RJ45 type connector. Cat.5e UTP. In compliance with ANSI/TIA/EIA 568B.2, ISO/IEC11801 & EN50173. Universal TIA/EIA 568A and 568B labeling. Housing: ABS UL-94-0. Durability: 750 cycles min. (ISO/IEC 11801, IEC 60603-7-4). IDC: PC UL94V-0, Accept 22-26AWG solid wire. Contact: RJ45 8P8C, 3~50 micro-inch gold plating over nickel plated on contact area. Tool-less wiring. Mounting grid delivered with the cover plate. Cover plate code: 8518.1 & 8518.2.		
	2018.5	2CLA201850A1001	10
	**Data outlet RJ45 Cat.6 UTP** RJ45 type connector. Cat.6 UTP. In compliance with ANSI/TIA/EIA 568B.2, ISO/IEC11801 & EN50173. Universal TIA/EIA 568A and 568B labeling. Housing: ABS UL-94-0. Durability: 750 cycles min. (ISO/IEC 11801, IEC 60603-7-4). IDC: PC UL94V-0, Accept 22-26AWG solid wire. Contact: RJ45 8P8C, 3~50 micro-inch gold plating over nickel plated on contact area. Tool-less wiring. Mounting grid delivered with the cover plate. Cover plate code: 8518.1 & 8518.2.		
	2018.6	2CLA201860A1001	10
	**Data outlet RJ45 Cat.6A STP** RJ45 type connector. Cat.6A STP. In compliance with ANSI/TIA/EIA 568B.2 , ISO/IEC11801 & EN50173. Universal TIA/EIA 568A and 568B Labeling. 10 Gb/sec. Durability: 750 cycles min. (ISO/IEC 11801, IEC 60603-7-4). Housing: Zinc Die-casting design for optimal EMI protection. Slim size is ideal for interfaces where the spaces are tight. IDC: PC UL94V-0, Accept 22-26AWG solid wire. Contact: RJ45 8P8C, 3~50 micro-inch gold plating over nickel plated on contact area. Tool-less wiring. Mounting grid delivered with the cover plate. Cover plate code: 8518.1 & 8518.2.		
	2018.7	2CLA201870A1001	10

Product	Article-No.	Order-No.	Pack/Qty
	**Housing for data outlets - Keystone type** Housing for connectors with Keystone type clipping system. Mounting grid delivered with the cover plate. Cover plate code: 8518.1 & 8518.2.		
	2018	2CLA201800A1001	10
	**Housing for data outlets - Systimax type** Housing for connectors with Systimax type clipping system. Mounting grid delivered with the cover plate. Cover plate code: 8518.1 & 8518.2.		
	2018.8	2CLA201880A1001	10
	**Cover plate for data outlet 1-gang** Cover plate for data outlets code: 2017.2, 2017.3, 2018, 2018.5, 2018.6 & 2018.8. Included: - Mounting grid without claws. - Shutters. - Labeling area.		
Soft White	**8518.1 BL**	2CLA851810A1101	10
White w/o chrome	**8518.1 BB**	2CLA851810A4101	10
Silver	**8518.1 PL**	2CLA851810A1301	10
Soft Black	**8518.1 NS**	2CLA851810A1501	10
Dune	**8518.1 DN**	2CLA851810A6201	10
Taupé	**8518.1 TP**	2CLA851810A6301	10
Comodoro	**8518.1 CM**	2CLA851810A1901	10
Stainless Steel	**8518.1 AI**	2CLA851810A1401	10
Antique Gold	**8518.1 OE**	2CLA851810A1201	10
	**Cover plate for data outlet 2-gangs** Cover plate for data outlets code: 2017.2, 2017.3, 2018, 2018.5, 2018.6 & 2018.8. Included: - Mounting grid without claws. - Shutters. - Labeling area.		
Soft White	**8518.2 BL**	2CLA851820A1101	10
White w/o chrome	**8518.2 BB**	2CLA851820A4101	10
Silver	**8518.2 PL**	2CLA851820A1301	10
Soft Black	**8518.2 NS**	2CLA851820A1501	10
Dune	**8518.2 DN**	2CLA851820A6201	10
Taupé	**8518.2 TP**	2CLA851820A6301	10
Comodoro	**8518.2 CM**	2CLA851820A1901	10
Stainless Steel	**8518.2 AI**	2CLA851820A1401	10
Antique Gold	**8518.2 OE**	2CLA851820A1201	10

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VDI connectors

Product	Article-No.	Order-No.	Pack/Qty
	**Mini-Jack connection unit** Front: 1x Mini-Jack connector (3,5mm stereo audio jack). Rear: screw terminals (3/4 wires). Without fixing claws. Cover plate code: 8555.		
	8155.4	2CLA815540A1001	1
	**HDMI connection unit** Front: 1x HDMI connector (Type A connector). Rear: screwless terminals (20 wires). Without fixing claws. Cover plate code: 8555.		
	8155.6	2CLA815560A1001	1
	**HDMI female-female connection unit** Front: 1x HDMI connector (Type A connector). Rear: 1x HDMI connector (Type A connector) fitted at 90° angle. Without fixing claws. Cover plate code: 8555.		
	8155.7	2CLA815570A1001	1
	**USB connection unit** Front: 1x USB 2.0 connector (Type A connector). Rear: screw terminals (5 wires). Without fixing claws. Cover plate code: 8555.		
	8155.8	2CLA815580A1001	1
	**USB female-female connection unit** Front: 1x USB 2.0 connector (Type A connector). Rear: 1x USB 2.0 connector (Type A connector) fitted at 90° angle. Without fixing claws. Cover plate code: 8555.		
	8155.9	2CLA815590A1001	1
	**Cover plate 1-gang VDI connection unit** Cover plate for 1-gang VDI connection unit code: 8155.4, 8155.6, 8155.7, 8155.8 & 8155.9.		
Soft White	**8555 BL**	2CLA855500A1101	1
White w/o chrome	**8555 BB**	2CLA855500A4101	1
Silver	**8555 PL**	2CLA855500A1301	1
Soft Black	**8555 NS**	2CLA855500A1501	1
Dune	**8555 DN**	2CLA855500A6201	1
Taupé	**8555 TP**	2CLA855500A6301	1
Comodoro	**8555 CM**	2CLA855500A1901	1
Stainless Steel	**8555 AI**	2CLA855500A1401	1
Antique Gold	**8555 OE**	2CLA855500A1201	1
White Glass	**8555 CB**	2CLA855500A2101	1
Black Glass	**8555 CN**	2CLA855500A2501	1

Product	Article-No.	Order-No.	Pack/Qty
	**HDMI wired + USB connection unit** Front: 1x HDMI connector (Type A connector) & 1x USB 2.0 connector (Type A connector). Rear: HDMI screwless terminals (20 wires) & USB screw terminals (5 wires). Without fixing claws. Cover plate code: 8555.1.		
	8155.68	2CLA815568A1001	1
	**HDMI female-female + USB connection unit** Front: 1x HDMI connector (Type A connector) & 1x USB 2.0 connector (Type A connector). Rear: 1x HDMI connector (Type A connector) fitted at 90º angle & USB screw terminals (5 wires). Without fixing claws. Cover plate code: 8555.1.		
	8155.78	2CLA815578A1001	1
	**Double USB connection unit** Front: 2x USB 2.0 connector (Type A connector). Rear: 2x USB screw terminals (5 wires). Without fixing claws. Cover plate code: 8555.1.		
	8155.88	2CLA815588A1001	1
	**Cover plate 2-gangs VDI connection unit** Cover plate for 2-gangs VDI connection unit code: 8155.68, 8155.78 & 8155.88.		
Soft White	**8555.1 BL**	2CLA855510A1101	1
White w/o chrome	**8555.1 BB**	2CLA855510A4101	1
Silver	**8555.1 PL**	2CLA855510A1301	1
Soft Black	**8555.1 NS**	2CLA855510A1501	1
Dune	**8555.1 DN**	2CLA855500A6201	1
Taupé	**8555.1 TP**	2CLA855500A6301	1
Comodoro	**8555.1 CM**	2CLA855500A1901	1
Stainless Steel	**8555.1 AI**	2CLA855510A1401	1
Antique Gold	**8555.1 OE**	2CLA855510A1201	1
White Glass	**8555.1 CB**	2CLA855500A2101	1
Black Glass	**8555.1 CN**	2CLA855500A2501	1

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VDI connectors

Product	Article-No.	Order-No.	Pack/Qty
	**2x RCA connection unit** Front: 2x RCA connectors (Red / White). Rear: screw terminals (4 wires). Without fixing claws. Cover plate code: 8555.2.		
	8155.2	2CLA815520A1001	1
	**Cover plate 2RCA connection unit** Cover plate for 2RCA connection unit code: 8155.2.		
Soft White	**8555.2 BL**	2CLA855520A1101	1
White w/o chrome	**8555.2 BB**	2CLA855520A4101	1
Silver	**8555.2 PL**	2CLA855520A1301	1
Soft Black	**8555.2 NS**	2CLA855520A1501	1
Dune	8555.2 DN	2CLA855520A6201	1
Taupé	8555.2 TP	2CLA855520A6301	1
Comodoro	8555.2 CM	2CLA855520A1901	1
Stainless Steel	**8555.2 AI**	2CLA855520A1401	1
Antique Gold	**8555.2 OE**	2CLA855520A1201	1
White Glass	8555.2 CB	2CLA855520A2101	1
Black Glass	8555.2 CN	2CLA855520A2501	1
	**3x RCA connection unit** Front: 3x RCA connectors (Red / White / Yellow). Rear: screw terminals (6 wires). Without fixing claws. Cover plate code: 8555.3.		
	8155.3	2CLA815530A1001	1
	**Cover plate 3RCA connection unit** Cover plate for 3RCA connection unit code: 8155.3.		
Soft White	**8555.3 BL**	2CLA855530A1101	1
Silver	**8555.3 PL**	2CLA855530A1301	1
Soft Black	**8555.3 NS**	2CLA855530A1501	1
Dune	**8555.3 DN**	2CLA855530A6201	1
Taupé	**8555.3 TP**	2CLA855530A6301	1
Comodoro	**8555.3 CM**	2CLA855530A1901	1
Stainless Steel	**8555.3 AI**	2CLA855530A1401	1
Antique Gold	**8555.3 OE**	2CLA855530A1201	1
White Glass	**8555.3 CB**	2CLA855530A2101	1
Black Glass	**8555.3 CN**	2CLA855530A2501	1

Product	Article-No.	Order-No.	Pack/Qty
	**VGA connection unit** Front: 1x VGA connector (DE-15 connector). Rear: screw terminals (15 wires). Without fixing claws. Cover plate code: 8555.5.		
	8155.5	2CLA815550A1001	1
	**Cover plate VGA connection unit** Cover plate for VGA connection unit code: 8155.5.		
Soft White	**8555.5 BL**	2CLA855550A1101	1
Silver	**8555.5 PL**	2CLA855550A1301	1
Soft Black	**8555.5 NS**	2CLA855550A1501	1
Dune	8555.5 DN	2CLA855550A6201	1
Taupé	8555.5 TP	2CLA855550A6301	1
Comodoro	8555.5 CM	2CLA855550A1901	1
Stainless Steel	**8555.5 AI**	2CLA855550A1401	1
Antique Gold	**8555.5 OE**	2CLA855550A1201	1
White Glass	8555.5 CB	2CLA855550A2101	1
Black Glass	8555.5 CN	2CLA855550A2501	1

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Light controls - Rotatory dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**Rotatory dimmer, RL, 20-500 W** Rated voltage: 230 V~ ; ± 10% - 50 Hz. With rotatory control, 2-way On-Off switching and soft-catch. Leading Edge control. Rated power: 20 - 500 W / VA. For incandescent lamps, 230 V tungsten halogen lamps and low-volt halogen lamps with conventional transformer. With adjustable minimum brightness. In the case of conventional transformers, take ~20% transformer loss into account. Provided with terminal for net disconnection devices. Also applicable for 1gang 2way installations. Included: fixing claws. Cover plate code: 8560.2.		
	2247 U-500	2CKA006512A0302	1
	**LED dimmer** Very small installation depth: < 20 mm Without claws. With rotary control, two-way switch and soft-catch. 2-wire connection (neutral conductor not required) Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. With manually adjustable operating mode: trailing / leading edge control. With adjustable minimum/maximum brightness. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. Without cover plate. Rated voltage: 230 V~, + 10% / - 10% Rated frequency: 50 Hz/60 Hz Nominal power: 2 - 100 W/VA (leading edge control) Nominal power: 2 - 400 W/VA (trailing edge control) Protection class (device): IP 20 Temperature range (device): 0 °C - 35 °C Illuminable with neon lamp. Neon lamp included in delivery with cover plate. In the case of conventional transformers, take ~20% transformer loss into account. In case of electronic transformers, 5 % transformer losses. Also applicable for 1gang 2way installations. Provided with terminal for net disconnection devices. Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete) Recommendation: Please use loads and types of one producer. The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended. A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.		
	8160.6	2CKA006512A0345	1

Product	Article-No.	Order-No.	Pack/Qty
	**Rotatory dimmer, 1-10Vdc** Rated voltage: 230 V~ ; ± 10% - 50/60 Hz. Rated power: 700 W / VA. With rotatory control. For controlling ballast units for fluorescent lamps with control output 1-10 V DC, control current max. 50 mA DC. For LED control via control drivers. Without cover plate. Not illuminable. Making-current limiters have to be provided in case of too high making currents. Included: fixing claws. Cover plate code: 8560.2.		
	8160.9	2CLA816090A1001	1
	**Cover plate with rotatory knob for dimmer** Cover plate with rotatory knob for dimmer code: 8160, 8160.6 & 8160.9. Included: indicator neon lamp.		
Soft White	**8560.2 BL**	2CLA856020A1101	5
White w/o chrome	**8560.2 BB**	2CLA856020A4101	5
Silver	**8560.2 PL**	2CLA856020A1301	5
Dune	**8560.2 DN**	2CLA856020A6201	5
Taupé	**8560.2 TP**	2CLA856020A6301	5
Comodoro	**8560.2 CM**	2CLA856020A1901	5
Soft Black	**8560.2 NS**	2CLA856020A1501	5
Stainless Steel	**8560.2 AI**	2CLA856020A1401	5
Antique Gold	**8560.2 OE**	2CLA856020A1201	5

Sky Niessen & Skymoon

Light controls - DALI controlers

Product	Article-No.	Order-No.	Pack/Qty
	**Rotary DALI dimmer Flush-mounted, tunable white.** For DALI broadcast service (via central telegram). For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface. With rotary control and ON/OFF push operation. Fool proved. For changing the colour temperature of >tunable white< lamps, which meet DALI Standard IEC 62386-209 (Device Type 8). Colour temperature can then be set between 2,700 K - 6,500 K. Brightness power-on level and backround brightness level adjustable, buffered. With integrated LED illumination for orientation. Color of orientation light adjustable (18 presets and OFF). Up to 5 potentiometers are connectable in parallel. Max. current consumption: 15 mA. Not suitable for combining with other DALI sensors or central units of other manufacturers. For the generation of the DALI voltage a power supply according to IEC 62386 is required. Max. DALI-cable length: 300 m (1,5 - 2,5 mm²). Without cover plate.		
	8161.6	2CKA006599A3025	1
	**Rotary DALI dimmer Flush-mounted, DALI, with internal power supply, tunable White** For DALI broadcast service (via central telegram). With integrated DALI power adaptor. For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface. With rotary control and ON/OFF push operation. For changing the colour temperature of >tunable white< lamps, which meet DALI Standard IEC 62386-209 (Device Type 8). Colour temperature can then be set between 2,700 K - 6,500 K. With electronic short-circuit protection. With electronic overload protection. Brightness power-on level and backround brightness level adjustable, buffered. With integrated LED illumination for orientation. Color of orientation light adjustable (18 presets and OFF). Up to 5 potentiometers are connectable in parallel. Up to 3 potentiometers are connectable in parallel in active mode. Not suitable for combining with other DALI sensors or central units of other manufacturers. DALI-voltage: 15,5 V= Rated current: max. 75 mA Power consumption: < 2,5 W Number of DALI-units: 37 in case of one active power-potentiometer in case of three active power-potentiometer in parallel connection: 111 Active mode: the potentiometer is supporting the necessary control circuit for other DALI-devices. Passive mode: the potentiometer is suitable as additional operation point. Max. DALI-cable length: 300 m (1,5 - 2,5 mm²). Without cover plate..3		
	8161.7	2CKA006599A3026	1
	**Cover plate with rotatory knob for dimmer** Cover plate with rotatory knob for dimmer code: 8161.4 & 8161.5.		
Soft White	**8560.2 BL**	2CLA856020A1101	5
White w/o chrome	**8560.2 BB**	2CLA856020A4101	5
Silver	**8560.2 PL**	2CLA856020A1301	5
Soft Black	**8560.2 NS**	2CLA856020A1501	5
Dune	**8560.2 DN**	2CLA856020A6201	5
Taupé	**8560.2 TP**	2CLA856020A6301	5
Comodoro	**8560.2 CM**	2CLA856020A1901	5
Stainless Steel	**8560.2 AI**	2CLA856020A1401	5
Antique Gold	**8560.2 OE**	2CLA856020A1201	5

Light controls - Timer switches

Product	Article-No.	Order-No.	Pack/Qty
	**Time delayed switch with triac** Rated voltage: 230 Vac - 50 Hz. Power: - Incandescent: 40 - 500 W. - Halogen with transformer: 40 - 400 VA. - Motors: 40 - 100 VA. 2 wire connection. Delay setup: 10 sec. to 10 min. Overcurrent protection: with fuse. Indicator LED lamp included. Without fixing claws. Operating temperature: 0 - 40 ºC. Cover plate code: 8562.		
	8162.1	2CLA816210A1001	1
	**Cover plate for timer switch** Cover plate for timer switch code: 8162.1.		
Soft White	**8562 BL**	2CLA856200A1101	1
Silver	**8562 PL**	2CLA856200A1301	1
Soft Black	**8562 NS**	2CLA856200A1501	1
Dune	**8562 DN**	2CLA856200A6201	1
Taupé	**8562 TP**	2CLA856200A6301	1
Comodoro	**8562 CM**	2CLA856200A1901	1
Stainless Steel	**8562 AI**	2CLA856200A1401	1
Antique Gold	**8562 OE**	2CLA856200A1201	1

Sky Niessen & Skymoon

Light controls - Motion sensors

Product	Article-No.	Order-No.	Pack/Qty
	**180° motion sensor** For automatic switching of devices dependent on motion and brightness. For relay inserts 8161. With integrated selector switch for ON-AUTOMATIC-OFF (lockable). Surveillance density: 18 sectors with 72 switching segments. Switch-off delay: 10 sec to 30 min or short-time pulse 1 sec adjustable. Temperature range device: 0 °C to 35 °C. Detection range: frontal: 12 m, lateral: 8 m. Brightness limit value: from 5 lux up to daytime operation. Detection angle: 180 °. Mounting height: 0.8 m - 1.2 m.		
Soft White	**8541.1 BL**	2CLA854110A1101	1
Silver	**8541.1 PL**	2CLA854110A1301	1
Soft Black	**8541.1 NS**	2CLA854110A1501	1
Dune	**8541.1 DN**	2CLA854110A6201	1
Taupé	**8541.1 TP**	2CLA854110A6301	1
Comodoro	**8541.1 CM**	2CLA854110A1901	1
Stainless Steel	**8541.1 AI**	2CLA854110A1401	1
Antique Gold	**8541.1 OE**	2CLA854110A1201	1

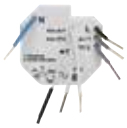
Light controls - Programmable switches

Product	Article-No.	Order-No.	Pack/Qty
	**Relay switch** Rated voltage: 230 V~ ; ± 10% - 50/60 Hz. 3 wire connection (neutral conductor required). For timer control element 8165.31. Operation also possible via conventional push buttons 8104.X. Outputs: 1 Normally open contact, potential-bound. Suitable for: 230 V incandescent lamps, 230 V halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are operated via transformers. Rated current: 10 AX. Rated power: 2300 W / VA. Temperature range device: -25 °C to 55 °C. Included: fixing claws.		
	8161	2CLA816120A1001	1
	**Relay switch for blinds** Rated voltage: 230 V~ ; ± 10% - 50 Hz. Suitable for blind, roller blind and awning drives with mechanical or electronic limit switch shut-off. Two 230 V multi-way input terminals (Up/Down) for group control. Operating mode switch for the following modes: normal, louvre, base station, position. Wind alarm, cleaning functions can be accommodated via extension input. For comfort timer control element 8165.31. Remote control with blind controls code: 8144.X. Running time: 3 min. Outputs: 2 Normally open contact. Rated current: 3 A, cos φ0.5. Rated power: 690 VA. Control/Signal outputs: 2. Temperature range device: 0 °C to 35 °C. Included: fixing claws.		
	8161.2	2CLA816120A1001	1
	**Timer control element** For manual and time-controlled switching of blinds, roller blinds, awnings, lighting and other electrical devices. With dusk to dawn program including (Astro-program). Individual Astro adjustment and Astro blocking time. The controlled devices can be manually operated at any time. Simple setting via high-resolution display with background illumination. With preset switching times/date/time. Factory-set switching times can be individually adjusted. Automatic switchover from summer time to winter time (switch-off function). Switching times/programme are safely stored in the event of a mains power failure. Power reserve for time and date > 10 years. Simple toggling between manual/automatic/vacation modes. Freely adjustable temperature and brightness-dependent sun protection function. Freely adjustable twilight function. User-adjustable running times for blinds and air conditioning. Programming possible only with control element attached and energized. 6 switching times per day can be user-defined for each day of the week. Astro switching times and switching times can be combined. For universal relay switch insert 8161. For blind control insert 8161.2. Temperature range device: 0 °C to 35 °C. Cover plate code: 8565.3.		
	8165.31	2CLA816530A1101	1
	**Cover plate for timer control element** Cover plate for timer control element code: 8165.31.		
Soft White	**8565.3 BL**	2CLA856530A1101	1
White w/o chrome	**8565.3 BB**	2CLA856530A4101	1
Silver	**8565.3 PL**	2CLA856530A1301	1
Soft Black	**8565.3 NS**	2CLA856530A1501	1
Dune	**8565.3 DN**	2CLA856530A6201	1
Taupé	**8565.3 TP**	2CLA856530A6301	1
Comodoro	**8565.3 CM**	2CLA856530A1901	1
Stainless Steel	**8565.3 AI**	2CLA856530A1401	1
Antique Gold	**8565.3 OE**	2CLA856530A1201	1

Sky Niessen & Skymoon

Light controls - Wireless control

Product	Article-No.	Order-No.	Pack/Qty
	**Wireless switch transmitter - 1 channel** 1-gang wall-mounted transmitter independent of mains power supply. 1 radio channel for switching, dimming, controlling blinds or 2 light scenes can be called up. For wireless actuators: 8130.4, 8130.5, 8130.7 & 8130.6. MHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery type CR2032. Battery service life: typically 5 years, therefore practically maintenance-free. Rated voltage: 3 Vdc. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Control element: switch contacts top/bottom. Display elements: LED to indicate the transmission. Temperature range device: -5 °C to 45 °C. Battery included in delivery.		
Soft White	**8531.1 BL**	2CLA853110A1101	1
White w/o chrome	**8531.1 BB**	2CLA853110A4101	1
Silver	**8531.1 PL**	2CLA853110A1301	1
Soft Black	**8531.1 NS**	2CLA853110A1501	1
Dune	**8531.1 DN**	2CLA853110A6201	1
Taupé	**8531.1 TP**	2CLA853110A6301	1
Comodoro	**8531.1 CM**	2CLA853110A1901	1
	**Wireless switch transmitter - 2 channel** 2-gang wall-mounted transmitter independent of mains power supply. 2 radio channel for switching, dimming, controlling blinds or 4 light scenes can be called up. For wireless actuators: 8130.4, 8130.5, 8130.7 & 8130.6. Send frequency: 868 MHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery type CR2032. Battery service life: typically 5 years, therefore practically maintenance-free. Rated voltage: 3 Vdc. Automatic monitoring of battery life. Including fixing plate for mounting on smooth walls or on switch boxes. Control element: switch contacts top/bottom. Display elements: LED to indicate the transmission. Temperature range device: -5 °C to 45 °C. Battery included in delivery.		
Soft White	**8531.2 BL**	2CLA853120A1101	1
White w/o chrome	**8531.2 BB**	2CLA853120A4101	1
Silver	**8531.2 PL**	2CLA853120A1301	1
Soft Black	**8531.2 NS**	2CLA853120A1501	1
Dune	**8531.2 DN**	2CLA853120A6201	1
Taupé	**8531.2 TP**	2CLA853120A6301	1
Comodoro	**8531.2 CM**	2CLA853120A1901	1
	**Wireless switch actuator** Rated voltage: 230 Vac ; ± 10% - 50/60 Hz. For wireless switching of electrical loads. 2 functions: ON/OFF switch or time delayed switch. For wall mounted transmitter code: 8531.1 &8531.2. Switch-off delay: 3 sec. / 1 min. / 5 min. / 15 min. Repeater function can be activated for extended range. For universal attachment or installation. 3 wire connection (neutral conductor required). With auxiliary input for push-buttons code: 8104.X. Send/receive frequency: 868 MHz. Free-field range: approx. 100 m. Control element: adjustable potentiometer. Display elements: status indication of output via LED. Outputs: 1x Normally Open or Normally Closed contact, 230 Vac. Rated power: - Incandescent, halogen, electronic transformer and ferromagnetic transformers: 2.300 W / VA. - Fluorescent load: 1.000 VA. Temperature range (device): -5 °C to 45 °C. Dimensions: (L x W x D): 47 mm. x 48 mm. x 22 mm.		
	8130.4	2CLA813040A1001	1

Product	Article-No.	Order-No.	Pack/Qty
	**Wireless dimming actuator** Rated voltage: 230 Vac ; ± 10% - 50/60 Hz For wireless switching and dimming of electrical loads. For functions ON/OFF switch and dimming. For wall mounted transmitter code: 8531.1 & 8531.2. Repeater function can be activated for extended range. For universal attachment or installation. 2-wire connection (neutral conductor not required) 3-wire connection system (neutral conductor is required) is preferred when using electronic transformers, electromagnetic transformers and energy saving lamps. With auxiliary input for push-buttons code: 8104.X. Send/receive frequency: 868 MHz. Free-field range: approx. 100 m. Control element: adjustable potentiometer Display elements: status indication of output via LED. Outputs: 1 dimming channel, 230Vac Rated power: - Incandescent lamps: 35 - 300 W - Low voltage halogen lamps, which are operated by electronic transformers: 35 - 200 VA - Low voltage halogen lamps with conventional transformers: 35 - 175 VA Temperature range device: -5 °C to 45 °C Dimensions: (L x W x D): 47 mm x 48 mm x 33 mm		
	8130.5	2CLA813050A1001	1
	**Wireless blind actuator** Rated voltage: 230 Vac ; ±10 % - 50/60 Hz. For wireless switching of electrical loads or controlling blinds/shutters. 2 functions: 2-gang switch or blind control. Operation also possible via conventional blind controls code 8144.X or push-buttons 8104.X. For wall mounted transmitter code: 8531.1 & 8531.2. With blind switch function: 3 minutes run time. Repeater function can be activated for extended range. For universal attachment or installation. 3 wire connection (neutral conductor required). Send/receive frequency: 868 MHz. Free-field range: approx. 100 m. Control element: adjustable potentiometer. Display elements: status indication of output via LED. Inputs: 2. Polling voltage: 230 V~, Sensing pulse, L-wire. Outputs: 2 Normally Open contact, 230 Vac. Rated power: - Blind motors: 3 A, cos φ0.5. - Incandescent/halogen lamps: 3 A. - Fluorescent lamps: 3 AX. Temperature range device: -5 °C to 45 °C. Dimensions: (L x W x D): 47 mm. x 48 mm. x 22 mm.		
	8130.7	2CLA813070A1001	1
	**Wireless DIN-rail actuator** Rated voltage: 230 Vac ; ±10 % - 50/60 Hz. For wireless switching of electrical loads. 2 functions: ON/OFF switch or time delayed switch. For wall mounted transmitter code: 8531.1 &8531.2. Switch-off delay: 3 sec. / 1 min. / 5 min. / 10 min. / 30 min. Repeater function can be activated for extended range. For DIN-rail installation. 3 wire connection (neutral conductor required). Send/receive frequency: 868 MHz. Free-field range: approx. 30 m. Control element: adjustable potentiometer. Display elements: status indication of output via LED. Outputs: 1x Normally Open or Normally Closed contact, 230 Vac. Rated power: - Incandescent, halogen, electronic transformer and ferromagnetic transformers: 2.300 W / VA. - Fluorescent load: 1.000 VA. Temperature range device: -5 °C to 45 °C. Dimensions: 1 module.		
	8130.6	2CLA813060A1001	1

Sky Niessen & Skymoon

Light controls - Rotatory switch

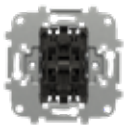
Product	Article-No.	Order-No.	Pack/Qty
	**4 position rotatory switch** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. 4 postions. 4 circuits. Faston terminals. Without fixing claws. Cover plate code: 8554.		
	8154	2CLA815400A1001	10
	**Cover plate with knob for rotatory switch** Cover plate for rotatory switch code: 8154.		
Soft White	**8554 BL**	2CLA855400A1101	1
White w/o chrome	**8554 BB**	2CLA855400A4101	1
Silver	**8554 PL**	2CLA855400A1301	1
Soft Black	**8554 NS**	2CLA855400A1501	1
Dune	**8554 DN**	2CLA855400A6201	1
Taupé	**8554 TP**	2CLA855400A6301	1
Comodoro	**8554 CM**	2CLA855400A1901	1
Stainless Steel	**8554 AI**	2CLA855400A1401	1
Antique Gold	**8554 OE**	2CLA855400A1201	1

Temperature controls - RTC

Product	Article-No.	Order-No.	Pack/Qty
	**Digital room thermostat** Rated voltage: 230 Vac - 50/60 Hz. Power consumption: < 1W Operating temperature range: + 0 ºC to 50 ºC. Measurement accuracy: ±2 ºC (± 1 ºC with calibration). Resolution: 0.1 ºC. Control output: Potential-free relay contacts Normally. Open (NO). Maximum load: 3A cos = 0,5. Output relay operation modes: - Hysteresis: 0.5 ºC. - Pulse-width modulation: with a ±4 ºC difference with the set-point temperature, variable from 100% to 0% modulation. Mounting grid delivered with the cover plate (without fixing claws). Cover plate code: 8540.5.		
	8140.5	2CLA814050A1001	1
	**Cover plate for digital thermostat** Cover plate for room thermostat code: 8140.5.		
Soft White	**8540.5 BL**	2CLA854050A1101	5
Silver	**8540.5 PL**	2CLA854050A1301	5
Soft Black	**8540.5 NS**	2CLA854050A1501	5
Dune	**8540.5 DN**	2CLA853110A6201	5
Taupé	**8540.5 TP**	2CLA853110A6301	5
Comodoro	**8540.5 CM**	2CLA853110A1901	5
Stainless Steel	**8540.5 AI**	2CLA854050A1401	1
Antique Gold	**8540.5 OE**	2CLA854050A1201	1
	**Rotatory room thermostat with floor sensor** Rated voltage: 230 Vac ; ±10 % - 50/60 Hz. Load power: 2.300 W. Load type: floor heating resistor. Control temperature: +5 ºC to +45 ºC (Set point). OFF state: At OFF position, the thermostat is off, so that it does not address the temperature measured by the floor temperature probe. The relay output contact is open. Temperature accuracy: 0,5 ºC. Hysteresis: 0,5 ºC. Floor temperature sensor: NTC, 10KΩ at 25ºC, -40ºC to 80ºC. Double isolated cable, 4m length. LED light indication: Red and green. Ambient temperature: -20 ºC to 45 ºC. Without fixing claws. Cover plate code: 8540.9.		
	8140.9	2CLA814090A1001	1
	**Cover plate with rotatory knob for RTC** Cover plate for room thermostat code: 8140.9.		
Soft White	**8540.9 BL**	2CLA854090A1101	5
Silver	**8540.9 PL**	2CLA854090A1301	5
Soft Black	**8540.9 NS**	2CLA854090A1501	5
Dune	**8540.9 DN**	2CLA853110A6201	1
Taupé	**8540.9 TP**	2CLA853110A6301	1
Comodoro	**8540.9 CM**	2CLA853110A1901	1
Stainless Steel	**8540.9 AI**	2CLA854090A1401	5
Antique Gold	**8540.9 OE**	2CLA854090A1201	5

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Signaling and lighting systems

Product	Article-No.	Order-No.	Pack/Qty
	**DND/MUR 2-gang switch** Rated voltage: 250 Vac Rated current: 10A. Installation inside the room. Gang 1: Do Not Disturb (DND) red symbol and indicator LED lamp (rocker). Gang 2: Make Up Room (MUR) green symbol and indicator LED lamp (rocker). To be combined with rocker reference 8544.4.		
	8144.4	2CLA814440A1001	1
	**Bell push-button with DND/MUR LED indicator** Rated voltage: 250 Vac RRated voltage: 250 Vac Rated current: 10A Installation outside the room. Red Do Not Disturb (DND) and green Make Up Room (MUR) LED signaling included. Push-button with bell symbol. To be combined with cover 8580.4.		
	8180.4	2CLA818040A1001	1
	**Cover plate for DND/MUR 2-gang switch 8144.4** Gang 1: Do Not Disturb (DND) red symbol and indicator LED lamp (rocker). Gang 2: Make Up Room (MUR) green symbol and indicator LED lamp (rocker).		
Soft White	**8544.4 BL**	2CLA854440A1101	5
White w/o chrome	**8544.4 BB**	2CLA854440A4101	5
Silver	**8544.4 PL**	2CLA854440A1301	5
Soft Black	**8544.4 NS**	2CLA854440A1501	5
Dune	**8544.4 DN**	2CLA854440A6201	5
Taupé	**8544.4 TP**	2CLA854440A6301	5
Comodoro	**8544.4 CM**	2CLA854440A1901	5
Stainless Steel	**8544.4 AI**	2CLA854440A1401	5
Antique Gold	**8544.4 OE**	2CLA854440A1201	5
	**Cover plate for bell push-button with DND/MUR LED indicator 8180.4** Red LED Do Not Disturb (DND) on the left and green LED Make Up Room (MUR) on the right. Bell symbol.		
Soft White	**8580.4 BL**	2CLA858040A1101	5
White w/o chrome	**8580.4 BB**	2CLA858040A4101	5
Silver	**8580.4 PL**	2CLA858040A1301	5
Soft Black	**8580.4 NS**	2CLA858040A1501	5
Dune	**8580.4 DN**	2CLA858040A6201	5
Taupé	**8580.4 TP**	2CLA858040A6301	5
Comodoro	**8580.4 CM**	2CLA858040A1901	5
Stainless Steel	**8580.4 AI**	2CLA858040A1401	5
Antique Gold	**8580.4 OE**	2CLA858040A1201	5

Product	Article-No.	Order-No.	Pack/Qty
	**LED signaling light** Rated voltage: 127-230 Vac / 50-60 Hz Lamp: white LED Luminous flux: > 2 lumen at 1 meter White diffuser Without fixing claws Cover plate code: 8581 without pictogram or 8581.XX with pictogram.		
	8180.1	2CLA818010A1001	1
	**LED DND/MUR signaling light** Rated voltage: 127-230 Vac / 50-60 Hz. Lamp: red/green LED. Luminous flux: > 2 lumen at 1 meter. White diffuser. Without fixing claws. Cover plate code: 8581 without pictogram or 8581.XX with pictogram.		
	8180.2	2CLA818020A1001	1
	**Beacon LED light** Rated voltage: 230 Vac / 50 Hz. Lamp: white LED. Luminous flux: > 2 lumen at 1 meter. White diffuser. Autonomy: 3 hours (1 hour at maximum illumination 2 hours with lower illumination). Battery: Ni-MH (estimated lifetime: 4 years). Without fixing claws. Cover plate code: 8581 without pictogram or 8581.XX with pictogram.		
	8181.2	2CLA818120A1001	1
	**Cover for signaling light white** Cover for signaling light with white diffuser for LED lights code: 8180.1, 8180.2 & 8181.2.		
	8581 BL	2CLA858100A1101	5
	**Cover for signaling light red** Cover for signaling light with red diffuser for LED lights code: 8180.1, 8180.2 & 8181.3.		
	8581 RJ	2CLA858100A1301	5
	**Cover for signaling light green** Cover for signaling light with green diffuser for LED lights code: 8180.1, 8180.2 & 8181.4.		
	8581 VD	2CLA858100A1401	5
	Cover for signaling light “WC” symbol Cover for signaling light with white diffuser and “WC” symbol for LED lights code: 8180.1, 8180.2 & 8181.5.		
	8581.10	2CLA858110A1001	5

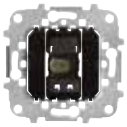
Sky Niessen & Skymoon

Signaling and lighting systems

Product	Article-No.	Order-No.	Pack/Qty
	**Cover for signaling light “WC men” symbol** Cover for signaling light with white diffuser and “WC men” symbol for LED lights code: 8180.1, 8180.2 & 8181.5.		
	8581.11	2CLA858110A1101	5
	**Cover for signaling light “WC women” symbol** Cover for signaling light with white diffuser and “WC woman” symbol for LED lights code: 8180.1, 8180.2 & 8181.5.		
	8581.12	2CLA858110A1201	5
	**Cover for signaling light “WC handic.” symbol** Cover for signaling light with white diffuser and “WC handic.” symbol for LED lights code: 8180.1, 8180.2 & 8181.5.		
	8581.13	2CLA858110A1301	5
	Cover for signaling light “No smoking” symbol Cover for signaling light with white diffuser and “No smoking” symbol for LED lights code: 8180.1, 8180.2 & 8181.5.		
	8581.14	2CLA858110A1401	5
	**Cover for signaling light “No phone” symbol** Cover for signaling light with white diffuser and “No phone” symbol for LED lights code: 8180.1, 8180.2 & 8181.5.		
	8581.15	2CLA858110A1501	5
	**Cover for signaling light “Silence” symbol** Cover for signaling light with white diffuser and “Silence”. symbol for LED lights code: 8180.1, 8180.2 & 8181.5.		
	8581.16	2CLA858110A1601	5
	**Cover for signaling light “Silence” symbol** Cover for signaling light with white diffuser and “Silence”. symbol for LED lights code: 8180.1, 8180.2 & 8181.5.		
	8581.17	2CLA858110A1701	5
	**Cover for signaling light “No entry” symbol** Cover for signaling light with white diffuser and “No entry”. symbol for LED lights code: 8180.1, 8180.2 & 8181.5.		
	8581.18	2CLA858110A1801	5

Product	Article-No.	Order-No.	Pack/Qty
	**Cover for signaling light “Elevator” symbol** Cover for signaling light with white diffuser and “Elevator” symbol for LED lights code: 8180.1, 8180.2 & 8181.5.		
	8581.19	2CLA858110A1901	5
	Cover for signaling light “Exit” symbol Cover for signaling light with white diffuser and “Exit” symbol for LED lights code: 8180.1, 8180.2 & 8181.5.		
	8581.20	2CLA858120A1001	5
	**Cover for signaling light “Info point” symbol** Cover for signaling light with white diffuser and “Info point” symbol for LED lights code: 8180.1, 8180.2 & 8181.5.		
	8581.21	2CLA858120A1101	5

Buzzer / Door bell

Product	Article-No.	Order-No.	Pack/Qty
	**Buzzer** Rated voltage: 127 - 230 Vac / 50 - 60 Hz. Rated power: 8 VA. Adjustable tone. Acoustic power at 1 meter with cover plate: 75 dB. Without fixing claws. Cover plate code: 8529.		
	8119	2CLA811900A1001	10
	**Electronic door bell with 4 melodies** Rated voltage: 230 Vac / 50-60 Hz. 4 melodies available. Acoustic power at 1 meter with cover plate: 72 dB. Without fixing claws. Cover plate code: 8529.		
	8124.2	2CLA812420A1001	1
	**Cover plate for buzzer/door bell** Cover plate for buzzer / door bell code: 8119 & 8124.2.		
Soft White	**8529 BL**	2CLA852900A1101	5
White w/o chrome	**8529 BB**	2CLA852900A4101	5
Silver	**8529 PL**	2CLA852900A1301	5
Soft Black	**8529 NS**	2CLA852900A1501	5
Dune	**8529 DN**	2CLA852900A6201	5
Taupé	**8529 TP**	2CLA852900A6301	5
Comodoro	**8529 CM**	2CLA852900A1901	5
Stainless Steel	**8529 AI**	2CLA852900A1401	5
Antique Gold	**8529 OE**	2CLA852900A1201	5

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Blank covers / Cable outlets

Product	Article-No.	Order-No.	Pack/Qty
	**Blank cover plate** Included: mounting grid and cover plate. Without fixing claws.		
Soft White	**8500 BL**	2CLA850000A1101	10
White w/o chrome	**8500 BB**	2CLA850000A4101	10
Silver	**8500 PL**	2CLA850000A1301	10
Soft Black	**8500 NS**	2CLA850000A1501	10
Dune	**8500 DN**	2CLA850000A6201	10
Taupé	**8500 TP**	2CLA850000A6301	10
Comodoro	**8500 CM**	2CLA850000A1901	10
Stainless Steel	**8500 AI**	2CLA850000A1401	10
Antique Gold	**8500 OE**	2CLA850000A1201	10
White Glass	**8500 CB**	2CLA850000A2101	5
Black Glass	**8500 CN**	2CLA850000A2501	5
	**Cable outlet** 3 connection screw terminals up to 2,5 mm². Cable tie included. Included: fixing claws. Cover plate code: 8507.		
	8107	2CLA810700A1001	10
	**Cover plate for cable outlet** Cover plate for cable outlet code: 8107.		
Soft White	**8507 BL**	2CLA850700A1101	10
White w/o chrome	**8507 BB**	2CLA850700A4101	10
Silver	**8507 PL**	2CLA850700A1301	10
Soft Black	**8507 NS**	2CLA850700A1501	10
Dune	**8507 DN**	2CLA850700A6201	10
Taupé	**8507 TP**	2CLA850700A6301	10
Comodoro	**8507 CM**	2CLA850700A1901	10
Stainless Steel	**8507 AI**	2CLA850700A1401	10
Antique Gold	**8507 OE**	2CLA850700A1201	10

Multiroom Bluetooth system

Product	Article-No.	Order-No.	Pack/Qty
	**Multiroom sound module** Rated voltage: 127-230 Vac ± 15%; 50-60 Hz. Max. consumption: 200 mA. Stand-by consuption: 0,3W. Amplifier power: 6+6 W; <1% distorsion (4 Ω). Speaker impedance: 4 Ω (2+2 W audio). FM radio digital tuner with RDS. Alarm clock with buzzer, radio types and snooze function. Bluetooth receiver: Bluetooth® v2.1 2.4GHz IEEE 802.15.1. Multiroom function available (1 master device and up to 14 slave devices). Remote control using code 9368.2 (ZigBee 2.4GHz IEEE 802.15.4). Optional: auxilary module 9368.3 for I/O (1 mini-jack stereo input & 1 mini-jack stereo output) and USB connection functions.		
	9368.1	2CLA936810A1001	1
	**Remote control for multiroom sound module - 2M** Rated voltage: 127-230 Vac ± 15%; 50-60 Hz. Max. consumption: 15 mA. Stand-by consuption: 0,5W. To control 9368.1 module (1 remote control for each module). Wireless connection between moles 9368.1 and 9368.2 (ZigBee 2.4GHz IEEE 802.15.4). Optional: auxilary module 9368.3 for I/O (1 mini-jack stereo input & 1 mini-jack stereo output) and USB connection functions. In case of using 9368.3 module, the connection between modules 9368.1 and 9368.2 must be wired (3 wires). Mounting grid delivered with the cover plate (without fixing claws). Cover plate code: 8568.		
	9368.2	2CLA936820A1001	1

Sky Niessen & Skymoon - Sound system

FM radio with alarm

Product	Article-No.	Order-No.	Pack/Qty
	**FM-radio and alarm module - 2M** Rated voltage: 230 Vac ± 15%; 50-60 Hz. Max. consumption: 100 mA. Stand-by consuption: 0,2W. Amplifier power: 2+2 W; <1% distorsion (16 Ω). Speaker impedance: 16 Ω (2+2 W audio). FM radio digital tuner with RDS. Alarm clock with buzzer, radio types and snooze function. Optional: auxilary module 9368.3 for I/O (1 mini-jack stereo input & 1 mini-jack stereo output), USB connection and Bluetooth receiver functions. Mounting grid delivered with the cover plate (without fixing claws). Cover plate code: 8568.		
	9368	2CLA936800A1001	1
	**FM-radio and alarm module - 2M** Rated voltage: 127 Vac ± 15%; 50-60 Hz. Max. consumption: 100 mA. Stand-by consuption: 0,2W. Amplifier power: 2+2 W; <1% distorsion (16 Ω). Speaker impedance: 16 Ω (2+2 W audio). FM radio digital tuner with RDS. Alarm clock with buzzer, radio types and snooze function. Optional: auxilary module 9368.3 for I/O (1 mini-jack stereo input & 1 mini-jack stereo output), USB connection and Bluetooth receiver functions. Mounting grid delivered with the cover plate (without fixing claws). Cover plate code: 8568.		
	9368.7	2CLA936870A1001	1
	**Cover plate for radio/remote control modules** Cover plate for FM-radio module and for remote control module code: 9368, 9368.2 & 9368.7. Included: cover plate and mounting grid. Without fixing claws.		
Soft White	**8568 BL**	2CLA856800A1101	1
White w/o chrome	**8568 BB**	2CLA856800A4101	1
Silver	**8568 PL**	2CLA856800A1301	1
Soft Black	**8568 NS**	2CLA856800A1501	1
Dune	**8568 DN**	2CLA856800A6201	1
Taupé	**8568 TP**	2CLA856800A6301	1
Comodoro	**8568 CM**	2CLA856800A1901	1
Stainless Steel	**8568 AI**	2CLA856800A1401	1
Antique Gold	**8568 OE**	2CLA856800A1201	1

Auxiliary module

Product	Article-No.	Order-No.	Pack/Qty
	**Auxiliary module - 2M** Power supply through 9368, 9368.2 or 9368.7 modules. Max. consumption: 200 mA. Stand-by consuption: 0,4W. Bluetooth receiver: Bluetooth® v2.1 2.4GHz IEEE 802.15.1. USB connector: for MP3 and WAV files. Max. consuption of the connected device: 100 mA @5Vdc. Input: 1x mini-jack stereo 3,5 mm. Output: 1x mini-jack stereo 3,5 mm. Mounting grid delivered with the cover plate (without fixing claws). Cover plate code: N2268.3.		
	9368.3	2CLA936830A1001	1
	**Cover plate for I/O + USB + Bluetooth module** Cover plate for I/O + USB + Bluetooth module code: 9368.3. Included: cover plate and mounting grid. Without fixing claws.		
Soft White	**8568.3 BL**	2CLA856830A1101	1
White w/o chrome	**8568.3 BB**	2CLA856830A4101	1
Silver	**8568.3 PL**	2CLA856830A1301	1
Soft Black	**8568.3 NS**	2CLA856830A1501	1
Dune	**8568.3 DN**	2CLA856830A6201	1
Taupé	**8568.3 TP**	2CLA856830A6301	1
Comodoro	**8568.3 CM**	2CLA856830A1901	1
Stainless Steel	**8568.3 AI**	2CLA856830A1401	1
Antique Gold	**8568.3 OE**	2CLA856830A1201	1

Sky Niessen & Skymoon - Sound system

2" loudspeaker for wall

Product	Article-No.	Order-No.	Pack/Qty
	**2" loudspeaker 2 W** Compatible with sound modules and amplifier code: 9368, 9368.1, 9368.7 and 9335.1. With broadband characteristics. With screwless terminals. Rated output: 2 W (RMS). Frequency response: 150 - 16.000 Hz. Impedance: 16 Ohm. Mounting depth: 34 mm. Without fixing claws. Cover plate code: 8529, 8629 & 9399.4.		
	9329	2CLA932900A1001	1

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate for 2" loudspeaker** Cover plate for 2" loudspeaker code: 9329.		
Soft White	**8529 BL**	2CLA852900A1101	5
White w/o chrome	**8529 BB**	2CLA852900A4101	5
Silver	**8529 PL**	2CLA852900A1301	5
Soft Black	**8529 NS**	2CLA852900A1501	5
Dune	**8529 DN**	2CLA852900A6201	5
Taupé	**8529 TP**	2CLA852900A6301	5
Comodoro	**8529 CM**	2CLA852900A1901	5
Stainless Steel	**8529 AI**	2CLA852900A1401	5
Antique Gold	**8529 OE**	2CLA852900A1201	5

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate for 2" loudspeaker** Cover plate for 2" loudspeaker code: 9329.		
Chrome	**8629 CR**	2CLA862900A1401	5
Black Glass	**8629 CN**	2CLA862900A1501	5

Product	Article-No.	Order-No.	Pack/Qty
	**Embellishing grid for 2" loudspeaker** Embellishing grid for 2" loudspeaker code: 9329. Plastic material.		
White	**9399.4 BA**	2CLA939940A1001	5
Black	**9399.4 NG**	2CLA939940A1501	5

5" loudspeaker for ceiling

Product	Article-No.	Order-No.	Pack/Qty
	**5" loudspeaker 6 W** Compatible with sound modules and amplifier code: 9368, 9368.1, 9368.7 and 9335.1. With broadband characteristics. With screw terminals. Rated output: 6 W (RMS). Frequency response: 70 - 10.000 Hz. Impedance: 16 Ohm. Flush mounted installation with 9399 mounting box or 9399.1 mounting ring. Embellishing grid code: 9399.2.		
	9329.1	2CLA932910A1001	1

Product	Article-No.	Order-No.	Pack/Qty
	**Installation box for 5" loudspeaker** For 9329.1 loudspeaker. For flush-mounted assembly. Drilling measurements: 174 mm. Mounting depth: 84 mm.		
	9399	2CLA939900A1001	12

Product	Article-No.	Order-No.	Pack/Qty
	**Installation ring for 5" loudspeaker** For 9329.1 loudspeaker. For mounting in hollow walls/ceilings. With spring brackets. Drilling measurements: 160 mm. Mounting depth: 110 mm.		
	9399.1	2CLA939910A1001	12

Product	Article-No.	Order-No.	Pack/Qty
	**Embellishing grid for 5" loudspeaker** Embellishing grid for 5" loudspeaker code: 9329.1. Plastic material. With central fixation screw.		
	9399.2	2CLA939920A1001	12

Auxiliary amplifier

Product	Article-No.	Order-No.	Pack/Qty
	**Auxiliary 20W amplifier** Rated voltage: 230 Vac ± 10 % / 50-60 Hz. Power consumption: 3,5 VA (max. 36 VA). Output voltage: 15 V- (max. 1,5 A). Output power: - 10 + 10 W (2 Ω). - 20 W (4 Ω). Speaker impedance: - 2 - 16 Ω (10 + 10 W). - 4 - 16 Ω (20 W). Can be operated in booster mode with FM radio modules 9368 and 9368.7 and multiroom modules 9368.1. Can be operated in “”standalone”” mode with one audio input. Can be used in bridge operation. For extending the number of speakers at one amplifier insert. For max. 16 speakers code 9329 or 9329.1. DIN-rail installation. Module width: 7.		
	9335.1	2CLA933510A1001	1

Sky Niessen & Skymoon - Sound system

Potentiometers

Product	Article-No.	Order-No.	Pack/Qty
	**Potentiometer for loudspeakers 3W** Wire-wound potentiometer. 3 W / 27 Ω. For low impedance circuits. Without fixing claws. Cover plate code: 8559.		
	8159.3	2CLA815930A1001	1
	**Potentiometer for loudspeakers 5W** Wire-wound potentiometer. 5 W / 47 Ω. For low impedance circuits. Without fixing claws. Cover plate code: 8559.		
	8159.5	2CLA815950A1001	1
	**Cover plate with rotatory knob for potentiometer** Cover plate with rotatory knob for potentiometer: 8159.3 & 8159.5.		
Soft White	**8559 BL**	2CLA855900A1101	1
White w/o chrome	**8559 BB**	2CLA855900A4101	1
Silver	**8559 PL**	2CLA855900A1301	1
Soft Black	**8559 NS**	2CLA855900A1501	1
Dune	**8559 DN**	2CLA855900A6201	1
Taupé	**8559 TP**	2CLA855900A6301	1
Comodoro	**8559 CM**	2CLA855900A1901	1
Stainless Steel	**8559 AI**	2CLA855900A1401	1
Antique Gold	**8559 OE**	2CLA855900A1201	1

Connection units

Product	Article-No.	Order-No.	Pack/Qty
	**Speaker connection unit** Front: 2x spring speaker terminals (Red/Black). Rear: 2x screw terminals. Without fixing claws. Cover plate code: 8557.1.		
	8157.1	2CLA815710A1101	1
	**Cover plate for speaker connection unit** Cover plate for speaker connection unit code: 8157.1.		
Soft White	**8557.1 BL**	2CLA855710A1101	1
Silver	**8557.1 PL**	2CLA855710A1301	1
Soft Black	**8557.1 NS**	2CLA855710A1501	1
Dune	**8557.1 DN**	2CLA855710A6201	1
Taupé	**8557.1 TP**	2CLA855710A6301	1
Comodoro	**8557.1 CM**	2CLA855710A1901	1
Stainless Steel	**8557.1 AI**	2CLA855710A1401	1
Antique Gold	**8557.1 OE**	2CLA855710A1201	1

Sky Niessen & Skymoon - Free@home - Home automation

Sensors

Product	Article-No.	Order-No.	Pack/Qty
	**free@home Sensor unit - 1-gang** For sending switching, dimming and blind commands to an ABB-free@home® actuator. Control element: Switch contacts top/ bottom. Display elements: LED as light for orientation or display of switching state. Mounting depth: 9 mm. To be installed with SR-1-85, SRL-1-85, SRD-1-85, SRB-1-85 and SRS-1-85 cover plates.		
	SU-F-1.0.1	2CKA006220A0117	1
	**free@home Sensor unit - 2-gang** For sending switching, dimming and blind commands to an ABB-free@home® actuator. Control element: Switch contacts top/ bottom. Display elements: LED as light for orientation or display of switching state. Mounting depth: 9 mm. To be installed with SR-2-85, SRL-2-L-85 SRL-2-R-85, SRD-2-L-85, SRD-2-R-85, SRB-2-85 SRS-2-L-85 and SRS-2-R-85 cover plates.		
	SU-F-2.0.1	2CKA006220A0118	1

Sensor & switch actuators

Product	Article-No.	Order-No.	Pack/Qty
	**free@home Sensor/Switch actuator - 1/1-gang** For switching 230 V~ devices. With 1 integrated switch actuator. Switching function is available pre-configured. Outputs: 1× normally open contact, potential free. Suitable for: resistive. Rated current: 10 A. Rated power: 2300 W. Suitable for: capacitive. Rated current: 10 AX. Mounting depth: 32 mm. To be installed with SR-1-85, SRL-1-85, SRD-1-85, SRB-1-85 and SRS-1-85 cover plates.		
	SSA-F-1.1.1	2CKA006220A0123	1
	**free@home Sensor/Switch actuator - 2/1-gang** For switching 230 V~ devices. With 1 integrated switch actuator. Switching function is available pre-configured. Outputs: 1× normally open contact, potential free. Suitable for: resistive. Rated current: 10 A. Rated power: 2300 W. Suitable for: capacitive. Rated current: 10 AX. Mounting depth: 32 mm. To be installed with SR-2-85, SRL-2-L-85 SRL-2-R-85, SRD-2-L-85, SRD-2-R-85, SRB-2-85 SRS-2-L-85 and SRS-2-R-85 cover plates.		
	SSA-F-2.1.1	2CKA006220A0124	1
	**free@home Sensor/Switch actuator - 2/2-gang** For switching 230 V~ devices. With 2 integrated switch actuator. Switching function is available pre-configured. Outputs: 2× normally open contact, potential free. Suitable for: resistive. Rated current: 10 A. Rated power: 2 x 1200 W. Suitable for: capacitive. Rated current: 10 AX. Mounting depth: 32 mm. To be installed with SR-2-85, SRL-2-L-85 SRL-2-R-85, SRD-2-L-85, SRD-2-R-85, SRB-2-85 SRS-2-L-85 and SRS-2-R-85 cover plates. Mounting depth: 32 mm. To be installed with SR-2-85, SRL-2-L-85 SRL-2-R-85, SRD-2-L-85, SRD-2-R-85, SRB-2-85 SRS-2-L-85 and SRS-2-R-85 cover plates.		
	SSA-F-2.2.1	2CKA006220A0125	1

Sensor & dimmer actuators

Product	Article-No.	Order-No.	Pack/Qty
	**free@home sensor/Dimmer actuator - 1/1-gang** For dimming 230 V~ loads. With integrated universal dimming actuator for controlling different lamps. The dimming function is available pre-configured. Outputs: 1× dimming channel. Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformers. Rated power: 10–180 W / VA. Suitable for: LEDi and energy-saving bulbs. Rated power: 2–80 W / VA. Mounting depth: 32 mm. To be installed with SR-1-85, SRL-1-85, SRD-1-85, SRB-1-85 and SRS-1-85 cover plates.		
	SDA-F-1.1.1	2CKA006220A0126	1
	**free@home Sensor/Dimmer actuator - 2/1-gang** For dimming 230 V~ loads. With integrated universal dimming actuator for controlling different lamps. The dimming function is available pre-configured Outputs: 1× dimming channel. Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformers. Rated power: 10–180 W / VA. Suitable for: LEDi and energy-saving bulbs. Rated power: 2–80 W / VA. Mounting depth: 32 mm. To be installed with SR-2-85, SRL-2-L-85 SRL-2-R-85, SRD-2-L-85, SRD-2-R-85, SRB-2-85 SRS-2-L-85 and SRS-2-R-85 cover plates.		
	SDA-F-2.1.1	2CKA006220A0127	1

Sensor & blind actuators

Product	Article-No.	Order-No.	Pack/Qty
	**free@home Sensor/Blind actuator - 1/1-gang** For controlling blind and awning motors. With integrated blind actuator. Blind function is available pre-configured. Outputs: 1× Change-over contacts/normally open contact, potential-bound. Rated power: 920 VA. Rated current: 4 A. Suitable for: Operating mode blind. Mounting depth: 32 mm. To be installed with SR-1-85, SRL-1-85, SRD-1-85, SRB-1-85 and SRS-1-85 cover plates.		
	SBA-F-1.1.1	2CKA006220A0128	1
	**free@home Sensor/Blind actuator - 2/1-gang** For controlling blind and awning motors. With integrated blind actuator. Blind function is available pre-configured. Outputs: 1× Change-over contacts/normally open contact, potential-bound. Rated power: 920 VA. Rated current: 4 A. Suitable for: Operating mode blind. Mounting depth: 32 mm. To be installed with SR-2-85, SRL-2-L-85 SRL-2-R-85, SRD-2-L-85, SRD-2-R-85, SRB-2-85 SRS-2-L-85 and SRS-2-R-85 cover plates.		
	SBA-F-2.1.1	2CKA006220A0129	1

Sky Niessen & Skymoon - Free@home - Home automation

Room temperature controller

Product	Article-No.	Order-No.	Pack/Qty
	**free@home Room temperature controller** Control element with room temperature control function for controlling commercially available actuating drives or analogue actuating drives (continuous controllers), as well as fan coils. With display of setvalue temperature. Display elements: LCD Display showing operation modes. Mounting depth: 14 mm. To be installed with CP-RTC-85 cover plates for RTC or CP-RTC-FC-85 cover plates for fan coil control.		
	RTC-F-1	2CKA006220A0122	1

Motion sensor & actuators

Product	Article-No.	Order-No.	Pack/Qty
	**free@home 180° motion sensor** With select lens for detection with animal access. For automatic switching of ABB-free@home® actuators dependent on movement and brightness. To be used with. Detection range: frontal 6 m, lateral 3 m. Detection angle: 180°. Brightness limit value: 1 – 500 lux. Protection class of device: IP 20. Mounting depth: 14.1 mm. To be installed with CP-MD-85 cover plates (mounting grid without claws included).		
	MD-F-1.0.PB.1	2CKA006220A0229	1
	**free@home 180° motion sensor/actuator** With select lens for detection with animal access. Including an integrated actuator for switching 230 V~ devices. Outputs: 1× normally open contact, potential free. Suitable for: resistive. Rated current: 10 A. Rated power: 2300 W. Suitable for: capacitive. Rated current: 10 AX. Detection range: frontal 6 m, lateral 3 m. Detection angle: 180°. Brightness limit value: 1 – 500 lux. Protection class of device: IP 20. Mounting depth: 31.5 mm. To be installed with CP-MD-85 cover plates (mounting grid without claws included).		
	MSA-F.1.1.PB.1	2CKA006220A0231	1

Wireless sensors

Product	Article-No.	Order-No.	Pack/Qty
	**free@home Sensor unit - 1-gang - Wireless** Rated voltage: 230 Vac - 50/60Hz. For transmitting switching, push-button, dimming and blind commands to an ABB-free@home® actuator. Wireless communication with the free@home system. With fixing claws. Control element: switch contacts top/bottom. Display elements: LED as light for orientation or display of the switching state. Temperature range device: -5 °C to 45 °C. Mounting depth: 32 mm. To be installed with SR-1-85 cover plates.		
	SU-F-1.0.1-WL	2CKA006200A0072	1
	**free@home Sensor unit - 2-gang - Wireless** Rated voltage: 230 Vac - 50/60Hz. For transmitting switching, push-button, dimming and blind commands to an ABB-free@home® actuator. Wireless communication with the free@home system. With fixing claws. Control element: switch contacts top/bottom. Display elements: LED as light for orientation or display of the switching state. Temperature range device: -5 °C to 45 °C. Mounting depth: 32 mm. To be installed with SR-2-85 cover plates.		
	SU-F-2.0.1-WL	2CKA006200A0073	1
	**free@home Sensor/Switch actuator - 1/1-gang - Wireless** Rated voltage: 230 Vac - 50/60Hz. For switching 230 V~ consumers. Wireless communication with the free@home system. With integrated switch actuator. Switching function is available also without prior programming (pre-configured). Configuration can be changed later via the web interface (groups, scenes, etc.). 3 wire connection (neutral conductor required). With 230 V extension unit input (On/Off). With fixing claws. Control element: switch contacts top/bottom. Display elements: LED as light for orientation or display of the switching state. Outputs: 1 Normally Open contact, potential-bound (output voltage: 230 Vac) Suitable for: ohmic. Rated current / power: 10 A / 2300 W. Suitable for: capacitive. Rated current / power: 10 AX / 2300 VA. Suitable for: inductive. Rated current / power: 10 A / 2300 VA. Temperature range device: -5 °C to 45 °C. Mounting depth: 32 mm. To be installed with SR-1-85 cover plates.		
	SSA-F-1.1.1-WL	2CKA006200A0074	1

Sky Niessen & Skymoon - Free@home - Home automation

Wireless sensor & switch actuators

Product	Article-No.	Order-No.	Pack/Qty
	**free@home Sensor/Switch actuator - 2/1-gang - Wireless** Rated voltage: 230 Vac - 50/60Hz. For switching 230 V~ consumers. Wireless communication with the free@home system. With integrated switch actuator. Switching function is available also without prior programming (pre-configured). Configuration can be changed later via the web interface (groups, scenes, etc.). The right sensor channel for programming additional functions (groups, scenes, etc.). 3 wire connection (neutral conductor required). With 230 V extension unit input (On/Off). With fixing claws. Control element: switch contacts top/bottom. Display elements: LED as light for orientation or display of the switching state. Outputs: 1 Normally Open contact, potential-bound (output voltage: 230 Vac). Suitable for: ohmic. Rated current / power: 10 A / 2300 W. Suitable for: capacitive. Rated current / power: 10 AX / 2300 VA. Suitable for: inductive. Rated current / power: 10 A / 2300 VA. Temperature range device: -5 °C to 45 °C. Mounting depth: 32 mm. To be installed with SR-2-85 cover plates.		
	SSA-F-2.1.1-WL	2CKA006200A0075	1
	**free@home Sensor/Switch actuator - 2/2-gang - Wireless** Rated voltage: 230 Vac - 50/60Hz. For switching 230 V~ consumers. Wireless communication with the free@home system. With integrated 2-gang switch actuator. Switching function is available also without prior programming (pre-configured). Configuration can be changed later via the web interface (groups, scenes, etc.). The right sensor channel for programming additional functions (groups, scenes, etc.). 3 wire connection (neutral conductor required). With two 230 V extension unit inputs (On/Off). With fixing claws. Control element: switch contacts top/bottom Display elements: LED as light for orientation or display of the switching state. Outputs: 2 Normally Open contacts, potential-bound (output voltage: 230 Vac). Suitable for: ohmic. Rated current / power: 5 A / 1200 W. Suitable for: capacitive. Rated power: 920 VA. Suitable for: inductive. Rated power: 800 VA. Temperature range device: -5 °C to 45 °C. Mounting depth: 32 mm. To be installed with SR-2-85 cover plates.		
	SSA-F-2.2.1-WL	2CKA006200A0076	1

Wireless sensor & dimmer actuators

Product	Article-No.	Order-No.	Pack/Qty
	**free@home Sensor/Dimmer actuator - 1/1-gang - Wireless** Rated voltage: 230 Vac - 50/60Hz. For dimming 230 V~ loads. Wireless communication with the free@home system. With integrated universal dimming actuator for controlling LEDs, incandescent lamps, 230 V halogen lamps, lowvoltage halogen lamps with conventional or electronic transformers, and dimmable energy-saving halogen lamps. For dimmable Retrofit-LEDs (LEDi). Dimming function is available also without prior programming (pre-configured). Configuration can be changed later via the web interface (groups, scenes, etc.). 2-wire connection (neutral conductor not required) 3-wire connection technology is possible as an option for improved load behaviour (for details see the manual). With 230 V extension unit input (dimming brighter/darker, switching). With fixing claws. Control element: switch contacts top/bottom. Display elements: LED as light for orientation or display of the switching state. Outputs: 1 dimming channel. Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformer. Rated power: 20 - 180 W / VA. Suitable for: LEDi and energy-saving bulbs; typical. Rated power: 2 - 80 W / VA. Temperature range device: -5 °C to 45 °C. Mounting depth: 32 mm. To be installed with SR-1-85 cover plates.		
	SDA-F-1.1.1-WL	2CKA006200A0077	1
	**free@home Sensor/Dimmer actuator - 2/1-gang - Wireless** Rated voltage: 230 Vac - 50/60Hz. For dimming 230 V~ loads. Wireless communication with the free@home system. With integrated universal dimming actuator for controlling LEDs, incandescent lamps, 230 V halogen lamps, lowvoltage halogen lamps with conventional or electronic transformers, and dimmable energy-saving halogen lamps. For dimmable Retrofit-LEDs (LEDi). Dimming function is available also without prior programming (left sensor channel is pre-configured). Configuration can be changed later via the web interface (groups, scenes, etc.). The right sensor channel for programming additional functions (groups, scenes, etc.). 2-wire connection (neutral conductor not required) 3-wire connection technology is possible as an option for improved load behaviour (for details see the manual). With 230 V extension unit input (dimming brighter/darker, switching). With fixing claws. Control element: switch contacts top/bottom Display elements: LED as light for orientation or display of the switching state. Outputs: 1 dimming channel. Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformer. Rated power: 20 - 180 W / VA. Suitable for: LEDi and energy-saving bulbs; typical. Rated power: 2 - 80 W / VA. Temperature range device: -5 °C to 45 °C. Mounting depth: 32 mm. To be installed with SR-2-85 cover plates.		
	SDA-F-2.1.1-WL	2CKA006200A0078	1

Sky Niessen & Skymoon - Free@home - Home automation

Wireless sensor & blind actuators

Product	Article-No.	Order-No.	Pack/Qty
	**free@home Sensor/Blind actuator - 1/1-gang - Wireless** Rated voltage: 230 Vac - 50/60Hz. For controlling blind or awning motors. Wireless communication with the free@home system. With integrated blind actuator. Blind function is available also without prior programming (pre-configured). Configuration can be changed later via the web interface (groups, scenes, etc.). 3 wire connection (neutral conductor required). With two 230 V extension unit inputs (Up/Down). With fixing claws. Control element: switch contacts top/bottom. Display elements: LED as light for orientation or display of the switching state. Outputs: 2 Normally Open contact, potential-bound (output voltage: 230 Vac). Suitable for: blind motors. Rated current / power: 4 A / 920 VA. Temperature range device: -5 °C to 45 °C. Mounting depth: 32 mm. To be installed with SR-1-85 cover plates.		
	SBA-F-1.1.1-WL	2CKA006200A0079	1
	**free@home Sensor/Blind actuator - 2/1-gang - Wireless** Rated voltage: 230 Vac - 50/60Hz. For controlling blind or awning motors. Wireless communication with the free@home system. With integrated blind actuator. Blind function is available also without prior programming (pre-configured). Configuration can be changed later via the web interface (groups, scenes, etc.). The right sensor channel for programming additional functions (groups, scenes, etc.). 3 wire connection (neutral conductor required). With two 230 V extension unit inputs (Up/Down). With fixing claws. Control element: switch contacts top/bottom. Display elements: LED as light for orientation or display of the switching state. Outputs: 2 Normally Open contacts, potential-bound (output voltage: 230 Vac). Suitable for: blind motors. Rated current / power: 4 A / 920 VA. Temperature range device: -5 °C to 45 °C. Mounting depth: 32 mm. To be installed with SR-2-85 cover plates.		
	SBA-F-2.1.1-WL	2CKA006200A0080	1

Wireless temperature controller

Product	Article-No.	Order-No.	Pack/Qty
	**free@home Room thermostat - Wireless** Rated voltage: 230 Vac - 50/60Hz. Heating/cooling operation. Wireless communication with the free@home system. Control element with room temperature controller function. With display of set-value temperature. In connection with temperature sensor 6226/T the integrated room temperature controller can be fitted with a remote sensor. With fixing claws. Control element: floating rocker for the selection of set values and operating modes. Display elements: LCD showing operation modes. Temperature range device: -5 °C to 45 °C. Mounting depth: 32 mm. To be installed with CP-RTC-85 cover plates for RTC or CP-RTC-FC-85 for fan coil control.		
	RTC-F-1-WL	2CKA006200A0081	1
	**free@home Room thermostat/actuator - Wireless** Rated voltage: 230 Vac - 50/60Hz. Rated frequency: 50 Hz / 60 Hz. Heating/cooling operation. Wireless communication with the free@home system. Control element with room temperature controller function. With display of set-value temperature. With integrated switch actuator, e.g. for controlling thermoelectric actuating drives in heating/cooling systems or electric floor heating systems. RTC function is available also without prior programming (pre-configured). In connection with temperature sensor 6226/T the integrated room temperature controller can be fitted with a remote sensor. 3 wire connection (neutral conductor required). With fixing claws. Control element: floating rocker for the selection of set values and operating modes. Display elements: LCD showing operation modes. Outputs: 1 Normally Open contact, potential-bound (output voltage: 230 Vac). Suitable for: ohmic. Rated current / power: 16 A / 3680 W. Temperature range device: -5 °C to 45 °C. Mounting depth: 32 mm. To be installed with CP-RTC-85 cover plates.		
	RTC-F-2.1.1-WL	2CKA006200A0082	1

Sky Niessen & Skymoon - Free@home - Home automation

Cover plates

Color	Article-No.	Order-No.	Pack/Qty
	**Cover plate - free@home 1-gang sensors** Cover plate for free@home sensors and sensor/actuators with 1-gang sensors code: SU-F-1.0.1, SSA-F-1.1.1, SDA-F-1.1.1, SBA-F-1.1.1, SU-F-1.0.1-WL, SSA-F-1.1.1-WL, SDA-F-1.1.1-WL, SBA-F-1.1.1-WL. Without symbol.		
Soft White	**SR-1-85 BL**	2CLA852620A1101	1
Silver	**SR-1-85 PL**	2CLA852620A1301	1
Soft Black	**SR-1-85 NS**	2CLA852620A1501	1
Dune	**SR-1-85-DN**	2CLA852620A6201	1
Taupé	**SR-1-85-TP**	2CLA852620A6301	1
Comodoro	**SR-1-85-CM**	2CLA852620A1901	1
Stainless Steel	**SR-1-85 AI**	2CLA852620A1401	1
Antique Gold	**SR-1-85 OE**	2CLA852620A1201	1

Color	Article-No.	Order-No.	Pack/Qty
	**Cover plate - free@home 1-gang sensors - Switch** Cover plate for free@home sensors and sensor/actuators with 1-gang sensors code: SU-F-1.0.1, SSA-F-1.1.1, SDA-F-1.1.1, SBA-F-1.1.1, SU-F-1.0.1-WL, SSA-F-1.1.1-WL, SDA-F-1.1.1-WL, SBA-F-1.1.1-WL. With Light symbol.		
Soft White	**SRL-1-85 BL**	2CLA852626A1101	1
Silver	**SRL-1-85 PL**	2CLA852626A1301	1
Soft Black	**SRL-1-85 NS**	2CLA852626A1501	1
Dune	**SRL-1-85 DN**	2CLA852626A6201	1
Taupé	**SRL-1-85 TP**	2CLA852626A6301	1
Comodoro	**SRL-1-85 CM**	2CLA852626A1901	1
Stainless Steel	**SRL-1-85 AI**	2CLA852626A1401	1
Antique Gold	**SRL-1-85 OE**	2CLA852626A1201	1

Color	Article-No.	Order-No.	Pack/Qty
	**Cover plate - free@home 1-gang sensors - Dimmer** Cover plate for free@home sensors and sensor/actuators with 1-gang sensors code: SU-F-1.0.1, SSA-F-1.1.1, SDA-F-1.1.1, SBA-F-1.1.1, SU-F-1.0.1-WL, SSA-F-1.1.1-WL, SDA-F-1.1.1-WL, SBA-F-1.1.1-WL. With Dimming symbol.		
Soft White	**SRD-1-85 BL**	2CLA852625A1101	1
Silver	**SRD-1-85 PL**	2CLA852625A1301	1
Soft Black	**SRD-1-85 NS**	2CLA852625A1501	1
Dune	**SRD-1-85-DN**	2CLA852625A6201	1
Taupé	**SRD-1-85-TP**	2CLA852625A6301	1
Comodoro	**SRD-1-85-CM**	2CLA852625A1901	1
Stainless Steel	**SRD-1-85 AI**	2CLA852625A1401	1
Antique Gold	**SRD-1-85 OE**	2CLA852625A1201	1

Color	Article-No.	Order-No.	Pack/Qty
	**Cover plate - free@home 1-gang sensors - Blind** Cover plate for free@home sensors and sensor/actuators with 1-gang sensors code: SU-F-1.0.1, SSA-F-1.1.1, SDA-F-1.1.1, SBA-F-1.1.1, SU-F-1.0.1-WL, SSA-F-1.1.1-WL, SDA-F-1.1.1-WL, SBA-F-1.1.1-WL. With Blind symbol.		
Soft White	**SRB-1-85 BL**	2CLA852623A1101	1
Silver	**SRB-1-85 PL**	2CLA852623A1301	1
Soft Black	**SRB-1-85 NS**	2CLA852623A1501	1
Dune	**SRB-1-85-DN**	2CLA852623A6201	1
Taupé	**SRB-1-85-TP**	2CLA852623A6301	1
Comodoro	**SRB-1-85-CM**	2CLA852623A1901	1
Stainless Steel	**SRB-1-85 AI**	2CLA852623A1401	1
Antique Gold	**SRB-1-85 OE**	2CLA852623A1201	1

Color	Article-No.	Order-No.	Pack/Qty
	**Cover plate - free@home 1-gang sensors - Scene** Cover plate for free@home sensors and sensor/actuators with 1-gang sensors code: SU-F-1.0.1, SSA-F-1.1.1, SDA-F-1.1.1, SBA-F-1.1.1, SU-F-1.0.1-WL, SSA-F-1.1.1-WL, SDA-F-1.1.1-WL, SBA-F-1.1.1-WL. With Scene symbol.		
Soft White	**SRS-1-85 BL**	2CLA852627A1101	1
Silver	**SRS-1-85 PL**	2CLA852627A1301	1
Soft Black	**SRS-1-85 NS**	2CLA852627A1501	1
Dune	**SRS-1-85-DN**	2CLA852627A6201	1
Taupé	**SRS-1-85-TP**	2CLA852627A6301	1
Comodoro	**SRS-1-85-CM**	2CLA852627A1901	1
Stainless Steel	**SRS-1-85 AI**	2CLA852627A1401	1
Antique Gold	**SRS-1-85 OE**	2CLA852627A1201	1

Color	Article-No.	Order-No.	Pack/Qty
	**Cover plate - free@home 2-gang sensors** Cover plate for free@home sensors and sensor/actuators with 2-gang sensors code: SU-F-2.0.1, SSA-F-2.1.1, SSA-F-2.2.1, SDA-F-2.1.1, SBA-F-2.1.1, SU-F-2.0.1-WL, SSA-F-2.1.1-WL, SSA-F-2.2.1-WL, SDA-F-2.1.1-WL, SBA-F-2.1.1-WL. Without symbol. Suitable for both gangs.		
Soft White	**SR-2-85 BL**	2CLA852640A1101	1
Silver	**SR-2-85 PL**	2CLA852640A1301	1
Soft Black	**SR-2-85 NS**	2CLA852640A1501	1
Dune	**SR-2-85-DN**	2CLA852640A6201	1
Taupé	**SR-2-85-TP**	2CLA852640A6301	1
Comodoro	**SR-2-85-CM**	2CLA852640A1901	1
Stainless Steel	**SR-2-85 AI**	2CLA852640A1401	1
Antique Gold	**SR-2-85 OE**	2CLA852640A1201	1

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Cover plates

Color	Article-No.	Order-No.	Pack/Qty
	**Cover plate - free@home 2-gang sensors - Switch - Left** Cover plate for free@home sensors and sensor/actuators with 2-gang sensors code: SU-F-2.0.1, SSA-F-2.1.1, SSA-F-2.2.1, SDA-F-2.1.1, SBA-F-2.1.1, SU-F-2.0.1-WL, SSA-F-2.1.1-WL, SSA-F-2.2.1-WL, SDA-F-2.1.1-WL, SBA-F-2.1.1-WL. With Light symbol. Suitable for the left gang.		
Soft White	**SRL-2-L-85 BL**	2CLA852642A1101	1
Silver	**SRL-2-L-85 PL**	2CLA852642A1301	1
Soft Black	**SRL-2-L-85 NS**	2CLA852642A1501	1
Dune	**SRL-2-L-85-DN**	2CLA852642A6201	1
Taupé	**SRL-2-L-85-TP**	2CLA852642A6301	1
Comodoro	**SRL-2-L-85-CM**	2CLA852642A1901	1
Stainless Steel	**SRL-2-L-85 AI**	2CLA852642A1401	1
Antique Gold	**SRL-2-L-85 OE**	2CLA852642A1201	1

Color	Article-No.	Order-No.	Pack/Qty
	**Cover plate - free@home 2-gang sensors - Switch - Right** Cover plate for free@home sensors and sensor/actuators with 2-gang sensors code: SU-F-2.0.1, SSA-F-2.1.1, SSA-F-2.2.1, SDA-F-2.1.1, SBA-F-2.1.1, SU-F-2.0.1-WL, SSA-F-2.1.1-WL, SSA-F-2.2.1-WL, SDA-F-2.1.1-WL, SBA-F-2.1.1-WL. With Light symbol. Suitable for the right gang.		
Soft White	**SRL-2-R-85 BL**	2CLA852648A1101	1
Silver	**SRL-2-R-85 PL**	2CLA852648A1301	1
Soft Black	**SRL-2-R-85 NS**	2CLA852648A1501	1
Dune	**SRL-2-R-85-DN**	2CLA852648A6201	1
Taupé	**SRL-2-R-85-TP**	2CLA852648A6301	1
Comodoro	**SRL-2-R-85-CM**	2CLA852648A1901	1
Stainless Steel	**SRL-2-R-85 AI**	2CLA852648A1401	1
Antique Gold	**SRL-2-R-85 OE**	2CLA852648A1201	1

Color	Article-No.	Order-No.	Pack/Qty
	**Cover plate - free@home 2-gang sensors - Dimmer - Left** Cover plate for free@home sensors and sensor/actuators with 2-gang sensors code: SU-F-2.0.1, SSA-F-2.1.1, SSA-F-2.2.1, SDA-F-2.1.1, SBA-F-2.1.1, SU-F-2.0.1-WL, SSA-F-2.1.1-WL, SSA-F-2.2.1-WL, SDA-F-2.1.1-WL, SBA-F-2.1.1-WL. With Dimming symbol. Suitable for the left gang.		
Soft White	**SRD-2-L-85 BL**	2CLA852641A1101	1
Silver	**SRD-2-L-85 PL**	2CLA852641A1301	1
Soft Black	**SRD-2-L-85 NS**	2CLA852641A1501	1
Dune	**SRD-2-L-85-DN**	2CLA852641A6201	1
Taupé	**SRD-2-L-85-TP**	2CLA852641A6301	1
Comodoro	**SRD-2-L-85-CM**	2CLA852641A1901	1
Stainless Steel	**SRD-2-L-85 AI**	2CLA852641A1401	1
Antique Gold	**SRD-2-L-85 OE**	2CLA852641A1201	1

Color	Article-No.	Order-No.	Pack/Qty
	**Cover plate - free@home 2-gang sensors - Dimmer - Right** Cover plate for free@home sensors and sensor/actuators with 2-gang sensors code: SU-F-2.0.1, SSA-F-2.1.1, SSA-F-2.2.1, SDA-F-2.1.1, SBA-F-2.1.1, SU-F-2.0.1-WL, SSA-F-2.1.1-WL, SSA-F-2.2.1-WL, SDA-F-2.1.1-WL, SBA-F-2.1.1-WL. With Dimming symbol. Suitable for the right gang. Suitable for both gangs.		
Soft White	**SRD-2-R-85 BL**	2CLA852640A2101	1
Silver	**SRD-2-R-85 PL**	2CLA852640A2301	1
Soft Black	**SRD-2-R-85 NS**	2CLA852640A2501	1
Dune	**SRD-2-R-85-DN**	2CLA852640A6201	1
Taupé	**SRD-2-R-85-TP**	2CLA852640A6301	1
Comodoro	**SRD-2-R-85-CM**	2CLA852640A1901	1
Stainless Steel	**SRD-2-R-85 AI**	2CLA852640A2401	1
Antique Gold	**SRD-2-R-85 OE**	2CLA852640A2201	1

Color	Article-No.	Order-No.	Pack/Qty
	**Cover plate - free@home 2-gang sensors - Blind** Cover plate for free@home sensors and sensor/actuators with 2-gang sensors code: SU-F-2.0.1, SSA-F-2.1.1, SSA-F-2.2.1, SDA-F-2.1.1, SBA-F-2.1.1, SU-F-2.0.1-WL, SSA-F-2.1.1-WL, SSA-F-2.2.1-WL, SDA-F-2.1.1-WL, SBA-F-2.1.1-WL. With Blind symbol. Suitable for both gangs.		
Soft White	**SRB-2-85 BL**	2CLA852643A1101	1
Silver	**SRB-2-85 PL**	2CLA852643A1301	1
Soft Black	**SRB-2-85 NS**	2CLA852643A1501	1
Dune	**SRB-2-85-DN**	2CLA852643A6201	1
Taupé	**SRB-2-85-TP**	2CLA852643A6301	1
Comodoro	**SRB-2-85-CM**	2CLA852643A1901	1
Stainless Steel	**SRB-2-85 AI**	2CLA852643A1401	1
Antique Gold	**SRB-2-85 OE**	2CLA852643A1201	1

Color	Article-No.	Order-No.	Pack/Qty
	**Cover plate - free@home 2-gang sensors - Scene - Left** Cover plate for free@home sensors and sensor/actuators with 2-gang sensors code: SU-F-2.0.1, SSA-F-2.1.1, SSA-F-2.2.1, SDA-F-2.1.1, SBA-F-2.1.1, SU-F-2.0.1-WL, SSA-F-2.1.1-WL, SSA-F-2.2.1-WL, SDA-F-2.1.1-WL, SBA-F-2.1.1-WL. With Scene symbol. Suitable for the left gang.		
Soft White	**SRS-2-L-85 BL**	2CLA852644A1101	1
Silver	**SRS-2-L-85 PL**	2CLA852644A1301	1
Soft Black	**SRS-2-L-85 NS**	2CLA852644A1501	1
Dune	**SRS-2-L-85-DN**	2CLA852644A6201	1
Taupé	**SRS-2-L-85-TP**	2CLA852644A6301	1
Comodoro	**SRS-2-L-85-CM**	2CLA852644A1901	1
Stainless Steel	**SRS-2-L-85 AI**	2CLA852644A1401	1
Antique Gold	**SRS-2-L-85 OE**	2CLA852644A1201	1

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Cover plates



Cover plate - free@home 2-gang sensors - Scene - Right
Cover plate for free@home sensors and sensor/actuators with 2-gang sensors code: SU-F-2.0.1, SSA-F-2.1.1, SSA-F-2.2.1, SDA-F-2.1.1, SBA-F-2.1.1, SU-F-2.0.1-WL, SSA-F-2.1.1-WL, SSA-F-2.2.1-WL, SDA-F-2.1.1-WL, SBA-F-2.1.1-WL.
With Scene symbol.
Suitable for the right gang.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**SRS-2-R-85 BL**	2CLA852647A1101	1
Silver	**SRS-2-R-85 PL**	2CLA852647A1301	1
Soft Black	**SRS-2-R-85 NS**	2CLA852647A1501	1
Dune	**SRS-2-R-85-DN**	2CLA852647A6201	1
Taupé	**SRS-2-R-85-TP**	2CLA852647A6301	1
Comodoro	**SRS-2-R-85-CM**	2CLA852647A1901	1
Stainless Steel	**SRS-2-R-85 AI**	2CLA852647A1401	1
Antique Gold	**SRS-2-R-85 OE**	2CLA852647A1201	1



Cover plate - free@home RTC
Cover plate with RTC symbols for free@home room temperature controler code: RTC-F-1, RTC-F-1-WL and RTC-F-2.1-1-WL.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**CP-RTC-85 BL**	2CLA854060A1101	1
Silver	**CP-RTC-85 PL**	2CLA854060A1301	1
Soft Black	**CP-RTC-85 NS**	2CLA854060A1501	1
Dune	**CP-RTC-85-DN**	2CLA854060A6201	1
Taupé	**CP-RTC-85-TP**	2CLA854060A6301	1
Comodoro	**CP-RTC-85-CM**	2CLA854060A1901	1
Stainless Steel	**CP-RTC-85 AI**	2CLA854060A1401	1
Antique Gold	**CP-RTC-85 OE**	2CLA854060A1201	1



Cover plate - free@home fan coil control
Cover plate with fan coil control symbols for free@home room temperature controler code: RTC-F-1 and RTC-F-1-WL.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**CP-RTC-FC-85 BL**	2CLA855420A1101	1
Silver	**CP-RTC-FC-85 PL**	2CLA855420A1301	1
Soft Black	**CP-RTC-FC-85 NS**	2CLA855420A1501	1
Dune	**CP-RTC-FC-85-DN**	2CLA855420A6201	1
Taupé	**CP-RTC-FC-85-TP**	2CLA855420A6301	1
Comodoro	**CP-RTC-FC-85-CM**	2CLA855420A1901	1
Stainless Steel	**CP-RTC-FC-85 AI**	2CLA855420A1401	1
Antique Gold	**CP-RTC-FC-85 OE**	2CLA855420A1201	1



Cover plate - free@home motion sensor
Cover plate for free@home motion sensors and sensor/actuators code: MD-F-1.0.PB.1 and MSA-F.1.1.PB.1.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**CP-MD-85 BL**	2CLA854160A1101	1
Silver	**CP-MD-85 PL**	2CLA854160A1301	1
Soft Black	**CP-MD-85 NS**	2CLA854160A1501	1
Dune	**CP-MD-85-DN**	2CLA854160A6201	1
Taupé	**CP-MD-85-TP**	2CLA854160A6301	1
Comodoro	**CP-MD-85-CM**	2CLA854160A1901	1
Stainless Steel	**CP-MD-85 AI**	2CLA854160A1401	1
Antique Gold	**CP-MD-85 OE**	2CLA854160A1201	1

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Touch displays

Color	Article-No.	Order-No.	Pack/Qty
	**ABB-free@homeTouch 7"** For the central control of up to 16 configurable ABB-free@home® functions of type: switching, dimming, blind, RTC, scene, Philips HUE. Display of the video image of the outdoor station of ABB-Welcome door entry system. Suitable as room temperature controller extension unit (up to 8). Surface mounting. The bus can be connected via enclosed terminal block. Display size / resolution: 17.8 cm (7") / 800 x 480 Consumer units: 11 Display elements: TFT Touch Display Dimensions: (L x W x D): 155 mm x 218 mm x 29 mm Programming only with bus voltage applied via the web interface of the System Access Point. The power is supplied by the ABB-Welcome system controller or when using the ABB-free@home panel without an ABB-Welcome system, a separate ABB 24 V- power supply is required. Protection class (device): IP30 Temperature range (device): -5 °C to 40 °C		
White	**DP7-S-611**	2CKA008300A0356	1
Black	**DP7-S-625**	2CKA008300A0357	1
	**ABB-free@homeTouch 4.3"** For the central control of up to 16 configurable ABB-free@home® functions. For the display of configurable system messages. A configurable primary function can be triggered with a multi-touch gesture. Capacitive touch screen with closed glass surface. With integrated room temperature controller and temperature sensor. In connection with temperature sensor 6226/T the integrated room temperature controller can be fitted with a remote sensor. Suitable as room temperature controller extension unit (up to 8). Requires additional ABB power supply 24 VDC. Display size / resolution: 10.9 cm (4.3") / 480 x 854. Mounting height: 8 mm Control element: freely programmable touch surfaces. Display elements: LCD display Bus voltage: 24 V- Dimensions: (L x W x D): 104 mm x 143 mm x 53 mm Programming only with bus voltage applied via the web interface of the System Access Point. Protection class (device): IP20 Temperature range (device): -5 °C to 40 °C		
White	**DP4-1-611**	2CKA006220A0119	1
Black	**DP4-1-625**	2CKA006220A0120	1

Color	Article-No.	Order-No.	Pack/Qty
	**Flush mounting installation box** For flush-mounted in hollow-wall installation of the ABB-free@homeTouch 4.3". Windproof. Installation dimensions (H x W x D): 82 mm x 123 mm x 50 mm Mounting depth: 50 mm Halogen free.		
	DP4-F	2CKA006220A0389	1
	**Temperature sensor** For use as remote sensor with ABB- free@homeTouch 4.3". Line type: H03 VV-F Cable length: 4 m Type: NTC 10 kohm.		
	DP4-T-1	2CKA006220A0721	1

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System Access Point

Product	Article-No.	Order-No.	Pack/Qty
	**System Access Point - Wireless** For commissioning and remote control of the ABB-free@home® system. With integrated free@home wireless antenna. With integrated free@home bus connection. Allows the execution of astro and time programs. Commissioning and remote control is executed via the web interface or app. No additional commissioning software is required. Easy commissioning with WLAN ad-hoc mode. WLAN modes switchable via local operation. Connection to the home network via WLAN client mode or via CAT cable. The bus connection is provided via the enclosed bus terminal. Display elements: LED for status display. Rated voltage: 230 V~; 50/60 Hz. Bus voltage: 24 V. Dimensions: (L x W x D): 110 mm x 170 mm x 31 mm Programming via the web interface of the System Access Point. Protection class (device): IP20 Temperature range (device): -5 °C to 45 °C		
	SAP-S-2	2CKA006200A0105	1
	**External antenna - Wireless** For use with System Access Point SAP-S-2 and SAP-S-127.2. Feed the free@home wireless signal to the outside when the internal antenna of the System Access Point is shielded due to structural conditions. With magnetic base. Cable length: 1.5 m		
	SAP-1-WL	2CKA006200A0100	1

Weather station

Product	Article-No.	Order-No.	Pack/Qty
	**Weather station** For recording and transmitting of brightness, temperature, wind speed and rain. Weather data can be linked with actuators to automatically control functions. Weather data can be visualized in the free@home web interface and the free@home app. Wind speed measuring range 2 - 30 m/s The bus can be connected via enclosed terminal block. Rated voltage: 110 V~ - 230 V~; 50/60 Hz. Bus voltage: 24 V- Inputs: 4 Temperature range (sensor): Brightness limit value: 1 lux - 100000 lux Dimensions: (L x W x D): 108 mm x 121 mm x 227 mm Protection class (device): IP44 Temperature range (device): -20 °C to 55 °C		
	WS-1	2CKA006220A0390	1

Power supply

Product	Article-No.	Order-No.	Pack/Qty
	**Power supply** Power supply with integrated choke. Fast diagnosis due to LED display for operational readiness and errors. The bus can be connected via enclosed terminal block. Display elements: operational load/overload LED Rated voltage: 127 V~ - 230 V~, +10 % / -15 %; 50/60Hz Secondary: 30 V, +2 V / --2 V Outputs: 1 Rated current: 640 mA Protection class (device): IP20 Temperature range (device): -5 °C to 45 °C Dimensions: (L x W x D): 90 mm x 72 mm x 64 mm Module width (DIN-rail): 4 MW		
	PS-M-64.1.1	2CDG510001R0011	1

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Binary inputs

Product	Article-No.	Order-No.	Pack/Qty
	**Binary input 2-gang** Conventional push-buttons or auxiliary contacts can be connected to 2 channels. The information of the contact scanning can be used for activating ABB-free@home® actuators or for recording status information. The contact polling voltage is made available from the binary input itself. Extension of the connecting cables possible by a maximum of 10 m. Flush-mounted device for installation in a 60 mm device box or distribution box. The bus can be connected via enclosed terminal block. Programming only with bus voltage applied via the web interface of the System Access Point. Bus voltage: 24 V Inputs: 2 Polling voltage: 20 V- Protection class (device): IP20 Temperature range (device): -5 °C to 45 °C Dimensions: (L x W x D): 39 mm x 40 mm x 12 mm.		
	BI-F-2.0.1	2CDG510002R0011	1
	**Binary input 4-gang** Conventional push-buttons or auxiliary contacts can be connected to 4 channels. The information of the contact scanning can be used for activating ABB-free@home® actuators or for recording status information. The contact polling voltage is made available from the binary input itself. Extension of the connecting cables possible by a maximum of 10 m. Flush-mounted device for installation in a 60 mm device box or distribution box. The bus can be connected via enclosed terminal block. Programming only with bus voltage applied via the web interface of the System Access Point. Bus voltage: 24 V Inputs: 4 Polling voltage: 20 V- Protection class (device): IP20 Temperature range (device): -5 °C to 45 °C Dimensions: (L x W x D): 39 mm x 40 mm x 12 mm		
	BI-F-4.0.1	2CDG510003R0011	1
	**Binary input 4-gang** The device detects AC/DC signals of 10 - 230 V via 4 channels. The information of the signal evaluation can be used for controlling ABB-free@home® actuators or for recording status information. The bus can be connected via enclosed terminal block. Programming only with bus voltage applied via the web interface of the System Access Point. Bus voltage: 24 V Inputs: 4 Protection class (device): IP20 Temperature range (device): -5 °C to 45 °C Dimensions: (L x W x D): 90 mm x 36 mm x 64 mm Module width DIN-rail): 2 MW		
	BI-M-4.0.1	2CDG510004R0011	1

Switch actuators

Product	Article-No.	Order-No.	Pack/Qty
	**Binary input 8-gang / switch actuator 8-gang** Combination device with 8 binary inputs and 8 switch actuators. Conventional push-buttons or auxiliary contacts can be connected to 8 channels. The information of the contact scanning can be used for activating ABB-free@home® actuators or for recording status information. The contact polling voltage is made available by the device itself. Maximum cable length at a cable cross-section of 1.5 mm^2 < 100 m For switching 8 independent 230 V~ loads. No additional commissioning software is required. Programming only with bus voltage applied via the web interface of the System Access Point. Bus voltage: 24 V Inputs: 8 Polling voltage: 35 V- Outputs: 8 Normally Open contact, potential free Suitable for: AC1 (Output voltage: 230 V~) Rated current: 6 A, cos φ 0.8 Suitable for: AC3 (Output voltage: 230 V~) Rated current: 6 A, cos φ 0.45 Protection class (device): IP20 Temperature range (device): -5 °C to 45 °C Dimensions: (L x W x D): 90 mm x 144 mm x 64.5 mm Module width (DIN-rail): 8 MW.		
	SA-M-8.8.1	2CDG510007R0011	1
	**Switch actuator 4-gang** For switching 4 independent 127 V~/230 V~ loads. Each contact has a manual operation function independent of auxiliary voltage for additionally displaying the contact setting. The bus can be connected via enclosed terminal block. Control element: relay control element. Display elements: relay control element. Programming only with bus voltage applied via the web interface of the System Access Point. Power dissipation: 4 W Bus voltage: 24 V Outputs: 4 Suitable for: AC1 (Output voltage: 230 V~) Rated current: 16 A, cos φ 0.8 Suitable for: AC3 Rated current: 8 A, cos φ 0.45 Protection class (device): IP20 Temperature range (device): -5 °C to 45 °C Dimensions: (L x W x D): 90 mm x 72 mm x 64 mm Module width (DIN-rail): 4 MW.		
	SA-M-0.4.1	2CDG510006R0011	1

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Dimmer actuator

Product	Article-No.	Order-No.	Pack/Qty
	**DA-M-0.4.2**	2CKA006220A0395	1

Dimming actuator 4-gang
Multi-channel universal dimming actuator for controlling LEDs, incandescent lamps, 230 V halogen lamps, low-voltage halogen lamps with conventional or electronic transformers, and dimmable energy-saving halogen lamps.
For dimmable Retrofit-LEDs (LEDi).
Increasing the max. load via channel bridging possible.
The outputs can be switched parallel in any combination.
Outputs automatically recognize the connected load.
In addition, the operating mode can be selected manually.
Status indication of the channels via LED.
The bus can be connected via enclosed terminal block.
Display elements: outputs status indication via LED.
Programming only with bus voltage applied via the web interface of the System Access Point.
Rated voltage: 230 V~; 50/60 Hz
Bus voltage: 24 V
Outputs: 4 dimming channel
Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformer.
Rated power: 10 - 315 W/VA
Suitable for: LEDi and energy-saving bulbs; typical
Rated power: 2 - 80 W/VA
Protection class (device): IP20
Temperature range (device): -5 °C to 45 °C
Dimensions: (L x W x D): 90 mm x 144 mm x 64 mm
Module width (DIN-rail): 8 MW.

Blind actuator

Product	Article-No.	Order-No.	Pack/Qty
	**BA-M-0.4.1**	2CDG510011R0011	1

Blind actuator 4-gang
For controlling 4 independent blind or roller shutter drives.
The outputs are inversely blocked.
The bus can be connected via enclosed terminal block.
Programming only with bus voltage applied via the web interface of the System Access Point.
Power dissipation: 2 W
Bus voltage: 24 V
Outputs: 4
Suitable for: AC3 (Output voltage: 230 V~)
Rated current: 6 A, cos ϕ0.45
Protection class (device): IP20
Temperature range (device): -5 °C to 45 °C
Dimensions: (L x W x D): 90 mm x 72 mm x 64 mm
Module width (DIN-rail): 4 MW.

Heating & fan coil actuators

Product	Article-No.	Order-No.	Pack/Qty
	**HA-M-0.6.1**	2CDG510008R0011	1

Heating actuator 6-gang
For controlling thermoelectric actuating drives in heating/cooling systems.
The outputs are protected against short-circuit and overload.
The bus can be connected via enclosed terminal block.
Programming only with bus voltage applied via the web interface of the System Access Point.
Power dissipation: 2 W
Bus voltage: 24 V
Outputs: 6
Suitable for: resistive
Rated current: 160 mA
Protection class (device): IP20
Temperature range (device): -5 °C to 45 °C.
Dimensions: (L x W x D): 90 mm x 72 mm x 64 mm.
Module width (DIN-rail): 4 MW.

	**HA-M-0.12.1**	2CDG510009R0011	1

Heating actuator 12-gang
For controlling thermoelectric actuating drives in heating/cooling systems.
The outputs are protected against short-circuit and overload.
The bus can be connected via enclosed terminal block.
Programming only with bus voltage applied via the web interface of the System Access Point.
Power dissipation: 4 W
Bus voltage: 24 V
Outputs: 12
Suitable for: ohmic
Rated current: 160 mA
Protection class (device): IP20
Temperature range (device): -5 °C to 45 °C
Dimensions: (L x W x D): 90 mm x 144 mm x 64 mm.
Module width: 8 MW.

	**FCA-M-2.3.1**	2CDG510010R0011	1

Fan coil actuator
For controlling blower convectors. Supports 2-pipe and 4-pipe system for heating and cooling. The fan speed levels can be switched using a changeover or step switch function.
Three contacts for switching a three-stage fan.
Two contacts for activating the heating and cooling valves.
Supports 24V and 230V valves.
With two binary inputs for connecting dew-point and condensation contacts.
The scanning voltage is provided by the device.
The bus connection is provided via the enclosed bus terminal.
Programming only with bus voltage applied via the web interface of the System Access Point.
Bus voltage: 24 V
Inputs: 2
Polling voltage: 10 V-
Outputs: 3 Normally Open contact, potential free
Suitable for: AC3 (Output voltage: 230 V~)
Rated current: 6 A
Protection class (device): IP20
Temperature range (device): -5 °C to 45 °C.
Dimensions: (L x W x D): 90 mm x 108 mm x 64.5 mm.
Module width (DIN-rail): 6 MW.

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Push-button coupler

Product	Article-No.	Order-No.	Pack/Qty
	**KNX Push-button coupler - 1/2-gang** For contacting conventional 1-gang rocker switches. With middle position. The bus can be connected via enclosed terminal block. To be installed with 8501 rockers.		
	6108/01-509	2CKA006133A0214	1
	**KNX Push-button coupler - 2/4-gang** For contacting conventional 2-gang rocker switches. With middle position. The bus can be connected via enclosed terminal block. To be installed with 8511 rockers.		
	6108/02-509	2CKA006133A0215	1

Rockers

Color	Article-No.	Order-No.	Pack/Qty
	**Rocker for switch, 1-gang** Rocker for 6108/01-509 KNX Push-button coupler.		
Soft White	**8501 BL**	2CLA850100A1101	20
Silver	**8501 PL**	2CLA850100A1301	20
Soft Black	**8501 NS**	2CLA850100A1501	20
Dune	**8501 DN**	2CLA850100A6201	10
Taupé	**8501 TP**	2CLA850100A6301	10
Comodoro	**8501 CM**	2CLA850100A1901	10
Stainless Steel	**8501 AI**	2CLA850100A1401	20
Antique Gold	**8501 OE**	2CLA850100A1201	20
White Glass	**8501 CB**	2CLA850100A2101	10
Black Glass	**8501 CN**	2CLA850100A2501	10
	**Rocker for switch/push-button, 2-gangs** Rocker for 6108/02-509 KNX Push-button coupler.		
Soft White	**8511 BL**	2CLA851100A1101	20
Silver	**8511 PL**	2CLA851100A1301	20
Soft Black	**8511 NS**	2CLA851100A1501	20
Dune	**8511 DN**	2CLA851100A6201	10
Taupé	**8511 TP**	2CLA851100A6301	10
Comodoro	**8511 CM**	2CLA851100A1901	10
Stainless Steel	**8511 AI**	2CLA851100A1401	20
Antique Gold	**8511 OE**	2CLA851100A1201	20
White Glass	**8511 CB**	2CLA851100A2101	10
Black Glass	**8511 CN**	2CLA851100A2501	10

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Sensor

Product	Article-No.	Order-No.	Pack/Qty
	**KNX Push-button coupler - 2-gang with bus coupler** With integrated temperature sensor. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. With middle position. The bus can be connected via enclosed terminal block. Control element: switch contacts top/bottom. Display elements: 2 LED per rocker via separate communication object for status (Red/ Green/ OFF) or orientation light. Connections: KNX-line - bus connection terminal. Rated voltage: 24 V-, +5 V / -5 V. Temperature range device: -5 °C to 45 °C. To be installed with SR-1-85, SRL-1-85, SRD-1-85, SRB-1-85 and SRS-1-85 cover plates.		
	6108/06-500	2CKA006133A0221	1
	**KNX Push-button coupler - 4-gang with bus coupler** With integrated temperature sensor. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. With middle position. The bus can be connected via enclosed terminal block. Control element: switch contacts top/bottom. Display elements: 2 LED per rocker via separate communication object for status (Red/ Green/ OFF) or orientation light. Connections: KNX-line - bus connection terminal. Rated voltage: 24 V-, +5 V / -5 V. Temperature range device: -5 °C to 45 °C. To be installed with SR-2-85, SRL-2-L-85 SRL-2-R-85, SRD-2-L-85, SRD-2-R-85, SRB-2-85 SRS-2-L-85 and SRS-2-R-85 cover plates.		
	6108/07-500	2CKA006133A0223	1
	**KNX Room thermostat with display** Control element with room thermostat function for triggering the heating, ventilation and fan-coil actuators. For controlling commercially available valve drives. With display of set-value temperature. Master/slave configuration. With base-load operation. The bus can be connected via enclosed terminal block. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%. Control element: switch contacts. Display elements: LCD showing operation mode and temperature. Connections: KNX-line - bus connection terminal. Rated voltage / current: 24 V- / 5 mA. Temperature range device: -5 °C to 45 °C. To be installed with CP-RTC-85 cover plates for RTC or CP-RTC-FC-85 cover plates for fan coil control.		
	6108/18-500	2CKA006134A0319	1

Product	Article-No.	Order-No.	Pack/Qty
	**KNX RTC with 5-gang universal input** Control element with room thermostat function for triggering the heating, ventilation and fan-coil actuators. With universal input with: - max. of 5 binary inputs. - 4 binary inputs and 1 analogue input for activating sensors with external power supply 1-10 V/0-10 V - 2 binary inputs and 1 analogue input for activating sensors with external power supply 1-10 V/0-10 V and an external temperature sensor PT1000 / T6226. With display of set-value temperature. Master/slave configuration. With base-load operation. The bus can be connected via enclosed terminal block. Class of temperature controller 1. Contribution to space heating energy efficiency 1,0%. Control element: switch contacts. Display elements: LCD showing operation mode and temperature. Connections: KNX-line - bus connection terminal. Rated voltage / current: 24 V- / 5 mA. Inputs: 5. Polling voltage: binary inputs, presence and/or window contact. Control/Signal outputs: 1, 0-10 V (passive). Temperature range device: -5 °C to 45 °C. Tobe installed with CP-CO-85 cover plates.		
	6109/18-500	2CKA006134A0315	1
	**KNX RTC with CO_2/moisture sensor** Control element with room temperature controller function and CO_2/moisture/air pressure sensor. For activating heating, ventilation and fan coil actuators. With universal input with: - max. of 5 binary inputs. - 4 binary inputs and 1 analogue input for activating sensors with external power supply 1-10 V/0-10 V. - 2 binary inputs and 1 analogue input for activating sensors with external power supply 1-10 V/0-10 V and an external temperature sensor PT1000 / T6226. With display of set-value temperature. Master/slave configuration. With base-load operation. The bus can be connected via enclosed terminal block. Class of temperature controller 1. Contribution to space heating energy efficiency 1,0%. Control element: switch contacts. Display elements: LCD showing operation mode and temperature. Connections: KNX-line - bus connection terminal. Rated voltage / current: 24 V- / 5 mA. Inputs: 5. Polling voltage: binary inputs, presence and/or window contact. Control/Signal outputs: 1, 0-10 V (passive). Temperature range device: -5 °C to 45 °C.		
	6109/28-500	2CKA006134A0317	1
	**KNX 180° motion sensor** Movement detector with up to 4 channels. Detection range: frontal: 6 m, lateral: 6 m. Brightness limit value: 5 lux - 150 lux. Detection angle: 180°. Position for installation: vertical. Mounting height: 1.1 m. Temperature range (device): -5 °C to 45 °C. To be installed with CP-MD-85 cover plates (mounting grid without claws included).		
	6122/98-509	2CKA006132A0307	1

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Cover plates



Cover plate - KNX 1-gang sensors
Cover plate for KNX 1-gang sensors code: 6108/06-500.
Without symbol.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**SR-1-85 BL**	2CLA852620A1101	1
Silver	**SR-1-85 PL**	2CLA852620A1301	1
Soft Black	**SR-1-85 NS**	2CLA852620A1501	1
Dune	**SR-1-85-DN**	2CLA852620A6201	1
Taupé	**SR-1-85-TP**	2CLA852620A6301	1
Comodoro	**SR-1-85-CM**	2CLA852620A1901	1
Stainless Steel	**SR-1-85 AI**	2CLA852620A1401	1
Antique Gold	**SR-1-85 OE**	2CLA852620A1201	1



Cover plate - KNX 1-gang sensors - Switch
Cover plate for KNX 1-gang sensors code: 6108/06-500.
With Light symbol.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**SRL-1-85 BL**	2CLA852626A1101	1
Silver	**SRL-1-85 PL**	2CLA852626A1301	1
Soft Black	**SRL-1-85 NS**	2CLA852626A1501	1
Dune	**SRL-1-85 DN**	2CLA852626A6201	1
Taupé	**SRL-1-85 TP**	2CLA852626A6301	1
Comodoro	**SRL-1-85 CM**	2CLA852626A1901	1
Stainless Steel	**SRL-1-85 AI**	2CLA852626A1401	1
Antique Gold	**SRL-1-85 OE**	2CLA852626A1201	1



Cover plate - KNX 1-gang sensors - Dimmer
Cover plate for KNX 1-gang sensors code: 6108/06-500.
With Dimming symbol.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**SRD-1-85 BL**	2CLA852625A1101	1
Silver	**SRD-1-85 PL**	2CLA852625A1301	1
Soft Black	**SRD-1-85 NS**	2CLA852625A1501	1
Dune	**SRD-1-85-DN**	2CLA852625A6201	1
Taupé	**SRD-1-85-TP**	2CLA852625A6301	1
Comodoro	**SRD-1-85-CM**	2CLA852625A1901	1
Stainless Steel	**SRD-1-85 AI**	2CLA852625A1401	1
Antique Gold	**SRD-1-85 OE**	2CLA852625A1201	1



Cover plate - KNX 1-gang sensors - Blind
Cover plate for KNX 1-gang sensors code: 6108/06-500.
With Blind symbol.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**SRB-1-85 BL**	2CLA852623A1101	1
Silver	**SRB-1-85 PL**	2CLA852623A1301	1
Soft Black	**SRB-1-85 NS**	2CLA852623A1501	1
Dune	**SRB-1-85-DN**	2CLA852623A6201	1
Taupé	**SRB-1-85-TP**	2CLA852623A6301	1
Comodoro	**SRB-1-85-CM**	2CLA852623A1901	1
Stainless Steel	**SRB-1-85 AI**	2CLA852623A1401	1
Antique Gold	**SRB-1-85 OE**	2CLA852623A1201	1



Cover plate - KNX 1-gang sensors - Scene
Cover plate for KNX 1-gang sensors code: 6108/06-500.
With Scene symbol.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**SRS-1-85 BL**	2CLA852627A1101	1
Silver	**SRS-1-85 PL**	2CLA852627A1301	1
Soft Black	**SRS-1-85 NS**	2CLA852627A1501	1
Dune	**SRS-1-85-DN**	2CLA852627A6201	1
Taupé	**SRS-1-85-TP**	2CLA852627A6301	1
Comodoro	**SRS-1-85-CM**	2CLA852627A1901	1
Stainless Steel	**SRS-1-85 AI**	2CLA852627A1401	1
Antique Gold	**SRS-1-85 OE**	2CLA852627A1201	1



Cover plate - KNX 2-gang sensors
Cover plate for KNX 2-gang sensors code: SU-F-2.0.1, SSA-F-2.1.1, SSA-F-2.2.1, SDA-F-2.1.1, SBA-F-2.1.1, SU-F-2.0.1-WL, SSA-F-2.1.1-WL, SSA-F-2.2.1-WL, SDA-F-2.1.1-WL, SBA-F-2.1.1-WL.
Without symbol. Suitable for both gangs.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**SR-2-85 BL**	2CLA852640A1101	1
Silver	**SR-2-85 PL**	2CLA852640A1301	1
Soft Black	**SR-2-85 NS**	2CLA852640A1501	1
Dune	**SR-2-85-DN**	2CLA852640A6201	1
Taupé	**SR-2-85-TP**	2CLA852640A6301	1
Comodoro	**SR-2-85-CM**	2CLA852640A1901	1
Stainless Steel	**SR-2-85 AI**	2CLA852640A1401	1
Antique Gold	**SR-2-85 OE**	2CLA852640A1201	1

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Cover plates



Cover plate - KNX 2-gang sensors - Switch - Left
Cover plate for KNX 2-gang sensors code: 6108/07-500.
With Light symbol.
Suitable for the left gang.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**SRL-2-L-85 BL**	2CLA852642A1101	1
Silver	**SRL-2-L-85 PL**	2CLA852642A1301	1
Soft Black	**SRL-2-L-85 NS**	2CLA852642A1501	1
Dune	**SRL-2-L-85-DN**	2CLA852642A6201	1
Taupé	**SRL-2-L-85-TP**	2CLA852642A6301	1
Comodoro	**SRL-2-L-85-CM**	2CLA852642A1901	1
Stainless Steel	**SRL-2-L-85 AI**	2CLA852642A1401	1
Antique Gold	**SRL-2-L-85 OE**	2CLA852642A1201	1



Cover plate - KNX 2-gang sensors - Switch - Right
Cover plate for KNX 2-gang sensors code: 6108/07-500.
With Light symbol.
Suitable for the right gang.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**SRL-2-R-85 BL**	2CLA852648A1101	1
Silver	**SRL-2-R-85 PL**	2CLA852648A1301	1
Soft Black	**SRL-2-R-85 NS**	2CLA852648A1501	1
Dune	**SRL-2-R-85-DN**	2CLA852648A6201	1
Taupé	**SRL-2-R-85-TP**	2CLA852648A6301	1
Comodoro	**SRL-2-R-85-CM**	2CLA852648A1901	1
Stainless Steel	**SRL-2-R-85 AI**	2CLA852648A1401	1
Antique Gold	**SRL-2-R-85 OE**	2CLA852648A1201	1



Cover plate - KNX 2-gang sensors - Dimmer - Left
Cover plate for KNX 2-gang sensors code: 6108/07-500.
With Dimming symbol.
Suitable for the left gang.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**SRD-2-L-85 BL**	2CLA852641A1101	1
Silver	**SRD-2-L-85 PL**	2CLA852641A1301	1
Soft Black	**SRD-2-L-85 NS**	2CLA852641A1501	1
Dune	**SRD-2-L-85-DN**	2CLA852641A6201	1
Taupé	**SRD-2-L-85-TP**	2CLA852641A6301	1
Comodoro	**SRD-2-L-85-CM**	2CLA852641A1901	1
Stainless Steel	**SRD-2-L-85 AI**	2CLA852641A1401	1
Antique Gold	**SRD-2-L-85 OE**	2CLA852641A1201	1



Cover plate - KNX 2-gang sensors - Dimmer - Right
Cover plate for KNX 2-gang sensors code: 6108/07-500.
With Dimming symbol.
Suitable for the right gang.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**SRD-2-R-85 BL**	2CLA852640A2101	1
Silver	**SRD-2-R-85 PL**	2CLA852640A2301	1
Soft Black	**SRD-2-R-85 NS**	2CLA852640A2501	1
Dune	**SRD-2-R-85-DN**	2CLA852640A6201	1
Taupé	**SRD-2-R-85-TP**	2CLA852640A6301	1
Comodoro	**SRD-2-R-85-CM**	2CLA852640A1901	1
Stainless Steel	**SRD-2-R-85 AI**	2CLA852640A2401	1
Antique Gold	**SRD-2-R-85 OE**	2CLA852640A2201	1



Cover plate - KNX 2-gang sensors - Blind
Cover plate for KNX 2-gang sensors code: 6108/07-500.
With Blind symbol.
Suitable for both gangs.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**SRB-2-85 BL**	2CLA852643A1101	1
Silver	**SRB-2-85 PL**	2CLA852643A1301	1
Soft Black	**SRB-2-85 NS**	2CLA852643A1501	1
Dune	**SRB-2-85-DN**	2CLA852643A6201	1
Taupé	**SRB-2-85-TP**	2CLA852643A6301	1
Comodoro	**SRB-2-85-CM**	2CLA852643A1901	1
Stainless Steel	**SRB-2-85 AI**	2CLA852643A1401	1
Antique Gold	**SRB-2-85 OE**	2CLA852643A1201	1



Cover plate - KNX 2-gang sensors - Scene - Left
Cover plate for KNX 2-gang sensors code: 6108/07-500.
With Scene symbol.
Suitable for the left gang.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**SRS-2-L-85 BL**	2CLA852644A1101	1
Silver	**SRS-2-L-85 PL**	2CLA852644A1301	1
Soft Black	**SRS-2-L-85 NS**	2CLA852644A1501	1
Dune	**SRS-2-L-85-DN**	2CLA852644A6201	1
Taupé	**SRS-2-L-85-TP**	2CLA852644A6301	1
Comodoro	**SRS-2-L-85-CM**	2CLA852644A1901	1
Stainless Steel	**SRS-2-L-85 AI**	2CLA852644A1401	1
Antique Gold	**SRS-2-L-85 OE**	2CLA852644A1201	1

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Cover plates



Cover plate - KNX 2-gang sensors - Scene - Right
Cover plate for KNX 2-gang sensors code: 6108/07-500.
With Scene symbol.
Suitable for the right gang.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**SRS-2-R-85 BL**	2CLA852647A1101	1
Silver	**SRS-2-R-85 PL**	2CLA852647A1301	1
Soft Black	**SRS-2-R-85 NS**	2CLA852647A1501	1
Dune	**SRS-2-R-85-DN**	2CLA852647A6201	1
Taupé	**SRS-2-R-85-TP**	2CLA852647A6301	1
Comodoro	**SRS-2-R-85-CM**	2CLA852647A1901	1
Stainless Steel	**SRS-2-R-85 AI**	2CLA852647A1401	1
Antique Gold	**SRS-2-R-85 OE**	2CLA852647A1201	1



Cover plate - KNX RTC with CO2/moisture sensor
Cover plate for KNX 5-gang RTC and CO2/moisture RTC sensor code: 6109/18-500 and 6109/28-500.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**CP-CO-85 BL**	2CLA855430A1101	1
Silver	**CP-CO-85 PL**	2CLA855430A1301	1
Soft Black	**CP-CO-85 NS**	2CLA855430A1501	1
Stainless Steel	**CP-CO-85 AI**	2CLA855430A1401	1
Antique Gold	**CP-CO-85 OE**	2CLA855430A1201	1



Cover plate - KNX RTC
Cover plate with RTC symbols for KNX room temperature controler code: 6108/18-500.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**CP-RTC-85 BL**	2CLA854060A1101	1
Silver	**CP-RTC-85 PL**	2CLA854060A1301	1
Soft Black	**CP-RTC-85 NS**	2CLA854060A1501	1
Dune	**CP-RTC-85-DN**	2CLA854060A6201	1
Taupé	**CP-RTC-85-TP**	2CLA854060A6301	1
Comodoro	**CP-RTC-85-CM**	2CLA854060A1901	1
Stainless Steel	**CP-RTC-85 AI**	2CLA854060A1401	1
Antique Gold	**CP-RTC-85 OE**	2CLA854060A1201	1



Cover plate - KNX motion sensor
Cover plate for KNX motion sensors code: 6122/98-509.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**CP-MD-85 BL**	2CLA854160A1101	1
Silver	**CP-MD-85 PL**	2CLA854160A1301	1
Soft Black	**CP-MD-85 NS**	2CLA854160A1501	1
Dune	**CP-MD-85-DN**	2CLA854160A6201	1
Taupé	**CP-MD-85-TP**	2CLA854160A6301	1
Comodoro	**CP-MD-85-CM**	2CLA854160A1901	1
Stainless Steel	**CP-MD-85 AI**	2CLA854160A1401	1
Antique Gold	**CP-MD-85 OE**	2CLA854160A1201	1



Cover plate - KNX fan coil control
Cover plate with fan coil control symbols for KNX room temperature controler code: 6108/18-500.

Color	Article-No.	Order-No.	Pack/Qty
Soft White	**CP-RTC-FC-85 BL**	2CLA855420A1101	1
Silver	**CP-RTC-FC-85 PL**	2CLA855420A1301	1
Soft Black	**CP-RTC-FC-85 NS**	2CLA855420A1501	1
Dune	**CP-RTC-FC-85-DN**	2CLA855420A6201	1
Taupé	**CP-RTC-FC-85-TP**	2CLA855420A6301	1
Comodoro	**CP-RTC-FC-85-CM**	2CLA855420A1901	1
Stainless Steel	**CP-RTC-FC-85 AI**	2CLA855420A1401	1
Antique Gold	**CP-RTC-FC-85 OE**	2CLA855420A1201	1

Sky Niessen & Skymoon - Frames

Soft White

Product	Article-No.	Order-No.	Pack/Qty
	Frames 1 to 5-gang - Soft White Size (height x width): - 1-gang: 86 x 86 mm. - 4-gang: 86 x 299 mm. - 2-gang: 86 x 157 mm. - 5-gang: 86 x 370 mm. - 3-gang: 86 x 228 mm. Flush mounting boxes code: 1199, 1999 & 1999.2. Surface mounting boxes code: 8591, 8592 & 8593.		
1-gang	**8571 BL**	2CLA857100A1101	20
2-gang	**8572 BL**	2CLA857200A1101	20
3-gang	**8573 BL**	2CLA857300A1101	10
4-gang	**8574 BL**	2CLA857400A1101	5
5-gang	**8575 BL**	2CLA857500A1101	5

Soft White Basic

Product	Article-No.	Order-No.	Pack/Qty
	Frames 1 to 4-gang - Basic - Soft White Size (height x width): - 1-gang: 86 x 86 mm. - 3-gang: 86 x 228 mm. - 2-gang: 86 x 157 mm. - 4-gang: 86 x 299 mm. Flush mounting boxes code: 1199, 1999 & 1999.2. Surface mounting boxes code: 8591, 8592 & 8593.		
1-gang	**8571.1 BL**	2CLA857110A1101	20
2-gang	**8572.1 BL**	2CLA857210A1101	20
3-gang	**8573.1 BL**	2CLA857310A1101	10
4-gang	**8574.1 BL**	2CLA857410A1101	5

Silver

Product	Article-No.	Order-No.	Pack/Qty
	**Frames 1 to 5-gang - Silver** Size (height x width): - 1-gang: 86 x 86 mm. - 4-gang: 86 x 299 mm. - 2-gang: 86 x 157 mm. - 5-gang: 86 x 370 mm. - 3-gang: 86 x 228 mm. Flush mounting boxes code: 1199, 1999 & 1999.2. Surface mounting boxes code: 8591, 8592 & 8593.		
1-gang	**8571 PL**	2CLA857100A1301	20
2-gang	**8572 PL**	2CLA857200A1301	20
3-gang	**8573 PL**	2CLA857300A1301	10
4-gang	**8574 PL**	2CLA857400A1301	5
5-gang	**8575 PL**	2CLA857500A1301	5

Soft Black

Product	Article-No.	Order-No.	Pack/Qty
	**Frames 1 to 5-gang - Soft Black** Size (height x width): - 1-gang: 86 x 86 mm. - 4-gang: 86 x 299 mm. - 2-gang: 86 x 157 mm. - 5-gang: 86 x 370 mm. - 3-gang: 86 x 228 mm. Flush mounting boxes code: 1199, 1999 & 1999.2. Surface mounting boxes code: 8591, 8592 & 8593.		
1-gang	**8571 NS**	2CLA857100A1501	20
2-gang	**8572 NS**	2CLA857200A1501	20
3-gang	**8573 NS**	2CLA857300A1501	10
4-gang	**8574 NS**	2CLA857400A1501	5
5-gang	**8575 SB**	2CLA857500A1501	5

Soft White - Taupé

Product	Article-No.	Order-No.	Pack/Qty
	**Frames 1 to 4-gang - Taupé** Size (height x width): - 1-gang: 86 x 86 mm. - 4-gang: 86 x 299 mm. - 2-gang: 86 x 157 mm. - 5-gang: 86 x 370 mm. - 3-gang: 86 x 228 mm. Flush mounting boxes code: 1199, 1999 & 1999.2. Surface mounting boxes code: 8591, 8592 & 8593.		
1-gang	**8571 TP**	2CLA857100A6301	20
2-gang	**8572 TP**	2CLA857200A6301	20
3-gang	**8573 TP**	2CLA857300A6301	10
4-gang	**8574 TP**	2CLA857400A6301	5
5-gang	**8575 TP**	2CLA857500A6301	5

Dune

Product	Article-No.	Order-No.	Pack/Qty
	**Frames 1 to 4-gang - Dune** Size (height x width): - 1-gang: 86 x 86 mm. - 4-gang: 86 x 299 mm. - 2-gang: 86 x 157 mm. - 5-gang: 86 x 370 mm. - 3-gang: 86 x 228 mm. Flush mounting boxes code: 1199, 1999 & 1999.2. Surface mounting boxes code: 8591, 8592 & 8593.		
1-gang	**8571 DN**	2CLA857100A6201	20
2-gang	**8572 DN**	2CLA857200A6201	20
3-gang	**8573 DN**	2CLA857300A6201	10
4-gang	**8574 DN**	2CLA857400A6201	5
5-gang	**8575 DN**	2CLA857500A6201	5

Comodoro

Product	Article-No.	Order-No.	Pack/Qty
	**Frames 1 to 4-gang - Comodoro** Size (height x width): - 1-gang: 86 x 86 mm. - 4-gang: 86 x 299 mm. - 2-gang: 86 x 157 mm. - 5-gang: 86 x 370 mm. - 3-gang: 86 x 228 mm. Flush mounting boxes code: 1199, 1999 & 1999.2. Surface mounting boxes code: 8591, 8592 & 8593.		
1-gang	**8571 CM**	2CLA857100A1901	20
2-gang	**8572 CM**	2CLA857200A1901	20
3-gang	**8573 CM**	2CLA857300A1901	10
4-gang	**8574 CM**	2CLA857400A1901	5
5-gang	**8575 CM**	2CLA857500A1901	5

Sky Niessen & Skymoon - Frames

Stainless Steel

Product	Article-No.	Order-No.	Pack/Qty
	**Frames 1 to 4-gang - Noble - Stainless Steel** Material: anti-fingerprint stainless steel. Size (height x width): - 1-gang: 86 x 86 mm. - 2-gang: 86 x 157 mm. - 3-gang: 86 x 228 mm. - 4-gang: 86 x 299 mm. Flush mounting boxes code: 1199, 1999 & 1999.2. Surface mounting boxes code: 8591, 8592 & 8593.		
1-gang	**8571 AI**	2CLA857100A1401	10
2-gang	**8572 AI**	2CLA857200A1401	10
3-gang	**8573 AI**	2CLA857300A1401	10
4-gang	**8574 AI**	2CLA857400A1401	5

Antique Gold

Product	Article-No.	Order-No.	Pack/Qty
	**Frames 1 to 4-gang - Noble - Antique Gold** Material: stainless steel. Size (height x width): - 1-gang: 86 x 86 mm. - 2-gang: 86 x 157 mm. - 3-gang: 86 x 228 mm. - 4-gang: 86 x 299 mm. Flush mounting boxes code: 1199, 1999 & 1999.2. Surface mounting boxes code: 8591, 8592 & 8593.		
1-gang	**8571 OE**	2CLA857100A1201	10
2-gang	**8572 OE**	2CLA857200A1201	10
3-gang	**8573 OE**	2CLA857300A1201	10
4-gang	**8574 OE**	2CLA857400A1201	5

Ash

Product	Article-No.	Order-No.	Pack/Qty
	**Frames 1 to 4-gang - Noble - Ash** Material: wood. Size (height x width): - 1-gang: 86 x 86 mm. - 2-gang: 86 x 157 mm. - 3-gang: 86 x 228 mm. - 4-gang: 86 x 299 mm. Flush mounting boxes code: 1199, 1999 & 1999.2. Surface mounting boxes code: 8591, 8592 & 8593.		
1-gang	**8571 FR**	2CLA857100A2001	1
2-gang	**8572 FR**	2CLA857200A2001	1
3-gang	**8573 FR**	2CLA857300A2001	1
4-gang	**8574 FR**	2CLA857400A2001	1

Natural Wenge

Product	Article-No.	Order-No.	Pack/Qty
	**Frames 1 to 4-gang - Noble - Natural Wengué** Material: wood. Size (height x width): - 1-gang: 86 x 86 mm. - 2-gang: 86 x 157 mm. - 3-gang: 86 x 228 mm. - 4-gang: 86 x 299 mm. Flush mounting boxes code: 1199, 1999 & 1999.2. Surface mounting boxes code: 8591, 8592 & 8593.		
1-gang	**8571 WN**	2CLA857100A2101	1
2-gang	**8572 WN**	2CLA857200A2101	1
3-gang	**8573 WN**	2CLA857300A2101	1
4-gang	**8574 WN**	2CLA857400A2101	1

White Glass

Product	Article-No.	Order-No.	Pack/Qty
	Frames 1 to 4-gang - Noble - White Glass Material: glass. Size (height x width): - 1-gang: 86 x 86 mm. - 2-gang: 86 x 157 mm. - 3-gang: 86 x 228 mm. - 4-gang: 86 x 299 mm. Flush mounting boxes code: 1199, 1999 & 1999.2. Surface mounting boxes code: 8591, 8592 & 8593.		
1-gang	**8571 CB**	2CLA857100A3001	1
2-gang	**8572 CB**	2CLA857200A3001	1
3-gang	**8573 CB**	2CLA857300A3001	1
4-gang	**8574 CB**	2CLA857400A3001	1

Black Glass

Product	Article-No.	Order-No.	Pack/Qty
	**Frames 1 to 4-gang - Noble - Black Glass** Material: glass. Size (height x width): - 1-gang: 86 x 86 mm. - 2-gang: 86 x 157 mm. - 3-gang: 86 x 228 mm. - 4-gang: 86 x 299 mm. Flush mounting boxes code: 1199, 1999 & 1999.2. Surface mounting boxes code: 8591, 8592 & 8593.		
1-gang	**8571 CN**	2CLA857100A3101	1
2-gang	**8572 CN**	2CLA857200A3101	1
3-gang	**8573 CN**	2CLA857300A3101	1
4-gang	**8574 CN**	2CLA857400A3101	1

Sky Niessen & Skymoon - Installation solutions

Surface mounting boxes

Product	Article-No.	Order-No.	Pack/Qty
	**Surface mounting box 1-gang** Size (height x width x depth): 86 x 86 x 43 mm.		
White	**8591 BL**	2CLA859100A1101	6
	**Surface mounting box 2-gang** Size (height x width x depth): 86 x 157 x 43 mm.		
White	**8592 BL**	2CLA859200A1101	5
	**Surface mounting box 3-gang** Size (height x width x depth): 86 x 228 x 43 mm.		
White	**8593 BL**	2CLA859300A1101	1

Flush mounting boxes

Product	Article-No.	Order-No.	Pack/Qty
	**Flush mounting box - Bricks and cement** Installation box for walls built with bricks or cement. Distance between screws: 60 mm. Allows the input of 2 tubes per each side. Linkable for multigang frames. Included: 2 screws to fix the mounting plate. The screws can be placed in any of the 4 sides to facilitate the installation of the insert in vertical and horizontal.		
	1199	2CLA019900A1001	250
	**Flush mounting box - Drywall and partitions** Installation box for walls built with drywall or partitions. Distance between screws: 60 mm. Suitable for mointing plates code: N2271.9, N2271.9G & N2272.9. Linkable for multigang frames. Included: 2 screws to fix the mounting plate. Shaft diameter: 68 mm.		
	999	2CLA099909A1001	25
	**Flush mounting box - Drywall and partitions** Double box suitable for 2-gang mounting plates. Installation box for walls built with drywall or partitions. Distance between screws: 60 mm Suitable for mointing plates code: N2271.9, N2271.9G & N2272.9. Included: 4 screws to fix the mounting plate. Shaft diameter: 68 mm. Distance between centers: 71 mm.		
	999.2	2CLA099920A1001	10

Skymoon

The finest and most exclusive by Niessen

Skymoon offers minimum protrusion from the wall with a standard installation. Its 6 mm thickness makes it one of the market's thinnest lines. With Skymoon you will have a jewel to decorate the most exclusive environments.



Maximum slimness 6 mm



Machined metal switch
Also the covers of the functions



Display
Lighting in white





Chromed outlet cover
Available in stainless steel and black finishes



Perfect integration between switch and frame.
Acting as a single assembly

100% noble materials
Available in stainless steel and glass finishes

AENOR
Ecodiseño
ED-0008/2007

Eco-design
The Sky Niessen & Skymoon switch range has been designed following the Product Design and Development Environmental Management regulations: Eco-design.







Skymoon line

Skymoon is the ultimate expression of design, with unique class and subtlety. Its innovative design presents technical solutions never seen before. Elegant materials, machined metallic keys, 6mm high with respect to the wall... With the Skymoon line you will achieve that distinctive touch that makes a room a unique space. Its avant-garde design will mean that all eyes will be drawn to the most attractive item in your home or business.

Switch composition



Insert Frame Rocker

Characteristics
• 250 V~
• 10 AX / 16 AX
• IP21
• CE Compliance Declaration pursuant to: - Low Voltage Directive 2006/95/CE - European Directive RoHS 2011/65/EU - IEC 60669-1 - UNE-EN 60669-1 - UNE 20324-REBT-BT27 - IP21
• AENOR certified product pursuant to: - UNE-EN 60669-1 - UNE-EN 60669-1/A1 - UNE-EN 60669-1/A2

Socket composition



Insert Frame Cover

Characteristics
• 250 V~
• 16 A
• IP21
• Compliant with standards: - European Directive RoHS 2011/65/EU - IEC 60884-1 - UNE-EN 20315 - UNE 20324-REBT-BT27 - IP21
• AENOR certified product pursuant to: - UNE 20315-1-1

Sky Niessen & Skymoon

1-way switches

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 1-gang, 1-way, single pole** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. Screwless terminals. Included: fixing claws. Optional: locator LED lamp 6192 BL (230 Vac). Rocker code: 8601, & 8601.3.		
	8101	2CLA810100A1001	10

2-way switches

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 1-gang, 2-way, single pole** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. Screwless terminals. Included: fixing claws. Optional: locator LED lamp 6192 BL (230 Vac). Rocker code: 8601 & 8601.3.		
	8102	2CLA810200A1001	10
	**Switch 1-gang, 2-way, single pole 16A** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Screwless terminals. Included: fixing claws. Optional: locator LED lamp 6192 BL (230 Vac). Rocker code: 8601 & 8601.3.		
	8102.1	2CLA810210A1001	10

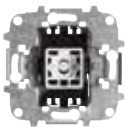
Intermediate switches

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 1-gang, intermediate, single pole** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. Screwless terminals. Included: fixing claws. Optional: locator LED lamp 6192 BL (230 Vac). Rocker code: 8601 & 8601.3.		
	8110	2CLA811000A1001	10

Switches with indicator lamp

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 1-gang, 1-way, single pole** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. Screwless terminals. Included: fixing claws. 3 wire connection (neutral conductor required). Included: indicator LED lamp 6192 BL (230 Vac). Rocker code: 8601.3.		
	8101.5	2CLA810150A1001	10
	**Switch 1-gang, 2-way, single pole** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. Screwless terminals. Included: fixing claws. 4 wire connection (neutral conductor required). Indicator: indicator LED lamp 6192 BL (230 Vac). Rocker code: 8601.3.		
	8102.5	2CLA810250A1001	10

Push-buttons

Product	Article-No.	Order-No.	Pack/Qty
	**Push-button 1-gang, single pole, NO** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. NO: Normally Open. Screwless terminals. Included: fixing claws. Optional: locator LED lamp 6192 BL (230 Vac). Rocker code: 8601 & 8601.3.		
	8104	2CLA810400A1001	10
	**Push-button 1-gang, SP, NO w/ locator lamp** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. NO: Normally Open. Screwless terminals. Included: fixing claws. 3 wire connection (neutral conductor required). Included: locator LED lamp 6192 BL (230 Vac). Rocker code: 8601.3.		
	8104.5	2CLA810450A1001	10
	**Push-button 1-gang, single pole, NC** Rated voltage: 110 - 250 Vac. Rated current: 10AX. NC: normally closed. Screwless terminals. Included: fixing claws. Optional: locator LED lamp 6192 BL (230 Vac). Rocker code: 8601 & 8601.3.		
	8104.9	2CLA810490A1001	5

Rockers for switches and push-buttons

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker for switch, 1-gang** Rocker for switches code: 8101, 8102, 8102.1 & 8110.		
Chrome	**8601 CR**	2CLA860100A1401	5
Black Glass	**8601 CN**	2CLA860100A1501	5
	**Rocker for switch, 1-gang** Rocker for switches code: 8101, 8102, 8102.1 & 8110.		
Chrome	**8601.3 CR**	2CLA860130A1401	5
Black Glass	**8601.3 CN**	2CLA860130A1501	5

Indicator / locator LED lamp

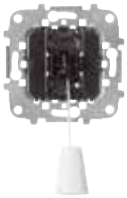
Product	Article-No.	Order-No.	Pack/Qty
	**Indicator/locator LED lamp 230Vac** For 81XX inserts. Lamp: white LED. Long life cycle. Two functions: indicator or locator light. Power consumption: 0,2 mA. Especially recommended for LED and energy saving lamps.		
Soft White	**6192 BL**	2CLA819202A1001	10

Sky Niessen & Skymoon

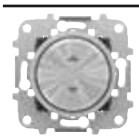
2-gang switches & push-buttons

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 2-gangs, 1-way, single pole** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. Screwless terminals. Included: fixing claws. Rocker code: 8611.		
	8111	2CLA811100A1001	10
	**Switch 2-gangs, 2-way, single pole** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. Screwless terminals. Included: fixing claws. Rocker code: 8611.		
	8122	2CLA812200A1001	10
	**Push-button 2-gangs, single pole, NO** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. Screwless terminals. Without interlock. Included: fixing claws. Rocker code: 8611.		
	8144.2	2CLA814420A1001	10
	**Switch 2-way + push-button 1-way NO, SP** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. Screwless terminals. Included: fixing claws. Rocker code: 8611.		
	8142	2CLA814200A1001	10
	**Rocker for switch/push-button, 2-gangs** Rocker for switch/push-buttons code: 8111, 8122, 8144.2 & 8142.		
Chrome	**8611 CR**	2CLA861100A1401	5
Black Glass	**8611 CN**	2CLA861100A1501	5

Pullcord switches

Product	Article-No.	Order-No.	Pack/Qty
	**Pullcord switch 1-gang, 1-way, single pole** Rated voltage: 110 - 250 Vac. Rated current: 16 A. Screwless terminals. Included: fixing claws. Cord length: 2 meters. Cover plate code: 8607.		
	8148	2CLA814800A1001	5
	**Cover for pull cord switch** Cover plate for pullcord switch code: 8148.		
Chrome	**8607 CR**	2CLA860700A1401	5
Black Glass	**8607 CN**	2CLA860700A1501	5

Blind controls

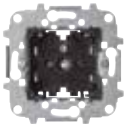
Product	Article-No.	Order-No.	Pack/Qty
	**Push-button blind control 2-gangs** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. Direct control. Interlocked gangs. Included: fixing claws. Rocker code: 8644.		
	8144	2CLA814400A1001	10
	**Switch blind control 2-gangs** Rated voltage: 110 - 250 Vac. Rated current: 10 AX. Direct control. Interlocked gangs. Included: fixing claws. Rocker code: 8644.		
	8144.1	2CLA814410A1001	10
	**Rocker for blind switch/push-button** Rocker for blind switch/push-button code: 8144 & 8144.1.		
Chrome	**8644 CR**	2CLA864400A1401	5
Black Glass	**8644 CN**	2CLA864400A1501	5
	**Electronic blind control 1-gang** Rated voltage: 110 - 250 Vac ; 50 / 60 Hz. Rated current: 700VA@230Vac / 350VA@127Vac. Direct control. Functions: - PERS: standard blinds control. Optionally other 8144 inserts can be connected to the 8630.3 to control the blind from other locations. - LAM: venetian type blinds control. Optionally other 8144 inserts can be connected to the 8630.3 to control the blind from other locations. - Centralization (CEN): one 8630.3 can control all the 8630.3 of a line centrally. Without fixing claws.		
Chrome	**8630.3 CR**	2CLA863030A1401	1
Black Glass	**8630.3 CN**	2CLA863030A1501	1

Sky Niessen & Skymoon

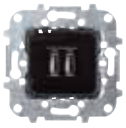
Schuko socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**Schuko socket outlet for plain covers** Rated voltage: 250 Vac. Rated current: 16 A. Type F: 2P + E. Shuttered for child safety. Screw terminals. Without fixing claws. Cover plate code: 8688.9.		
	8188.9	2CLA818890A1001	10
	**Flat cover plate for Schuko socket outlet** Cover plate for Schuko socket outlet code: 8188.9.		
Chrome	**8688.9 CR**	2CLA868890A1401	5
Black Glass	**8688.9 CN**	2CLA868890A1501	5

French / earth-pin socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**French/Earth-pin socket outlet for plain covers** Rated voltage: 250 Vac. Rated current: 16 A. Type E: 2P + E. Shuttered for child safety. Screwless terminals. Included: fixing claws. Cover plate code: 8687.9.		
	8187.9	2CLA818790A1001	10
	**Flat cover plate for French socket outlet** Cover plate for Schuko socket outlet code: 8187.9.		
Chrome	**8687.9 CR**	2CLA868790A1401	5
Black Glass	**8687.9 CN**	2CLA868790A1501	5

USB chargers

Product	Article-No.	Order-No.	Pack/Qty
	**USB charger 1.500mA, 2 outlets** Input voltage: 100 - 240 Vac ±10% ; 50 / 60 Hz. Input current: 0,20 A (with maximum load). Output voltage: 5 Vdc ±5%. Output current: 1.500 mA (total for both gangs). Power consumption in stand-by: <= 0,3W@230Vac. Energy efficiency: >= 71%. Operating temperature: 0 ºC to 35 ºC. Mounting grid delivered with the cover plate (without fixing claws). Cover plate code: 8685.		
	8185	2CLA818500A1001	1
	**Cover plate for USB charger 1,5A** Cover plate for USB charger code: 8185.		
Chrome	**8685 CR**	2CLA868500A1401	5
Black Glass	**8685 CN**	2CLA868500A1501	5

Sky Niessen & Skymoon

TV outlets

Product	Article-No.	Order-No.	Pack/Qty
	**TV / R terminal outlet** TV and R double outlet - Final. Without filter. Installation as a terminal outlet connected to a tap-off or splitter (without terminal resistor). Connection: screw terminal and clamp. Output connectors (C1 / C2): IEC male 9,52mm diam. / IEC female 9,52 mm. diam. Frequency range (I/O / C1 / C2): 5 - 862 MHz / 5 - 862 MHz / 5 - 862 MHz. Basic loss (FM / DAB / VHF / UHF): 10,0±0,7 dB / 10,0 ±1,5 dB / 4,0±1,5 dB / 3,0±0,5 dB. Isolation (FM / TV): >14 / >14. Return loss (FM / TV): >18 / >10. Included: fixing claws. Cover plate code: 8650.		
	8150	2CLA815000A1001	10
	**TV / R final outlet - CATV outlet** TV and R double outlet - CATV outlet - Final. With filter. Installation as a terminal outlet connected to a tap-off or splitter (without terminal resistor). Connection: screw terminal and clamp. Output connectors (C1 / C2): IEC male 9,52 mm. diam. / IEC female 9,52 mm. diam. Frequency range (C1 / C2): 5 - 68 & 118 - 1.000 MHz / 87,5 - 108 MHz. Basic loss (R / FM / TV): 0,3±0,1 dB / 1,1 ±0,3 dB / 0,9±0,3 dB. Isolation (FM / TV): >18 / >16. Selectivity (FM / TV): >10 / >18. Return loss (R / FM / TV): >18 / >16 / >18. Chroma-luminance delay (ns): <10. Included: fixing claws. Cover plate code: 8650.		
	8150.3	2CLA815030A1001	10
	**TV / R loop-through outlet** TV and R double outlet - Intermediate. Installation as an intermediate outlet in series connected to each other. From 2nd to 4th floor. Connection: screw terminal and clamp. Output connectors (C1 / C2): IEC male 9,52mm diam. / IEC female 9,52 mm. diam. Frequency range (I/O / C1 / C2): 13 - 862 MHz / 13 - 862 MHz / 13 - 862 MHz. Basic loss (FM / DAB / VHF / UHF): 25±1,5 dB / 25 ±1,5 dB / 8,0±0,7 dB / 8,0±0,7 dB. Through loss (FM / VHF / UHF): 2,0±0,3 dB / 2,0±0,5 dB / 2,0±0,5 dB. Directivity (FM / TV): >12 dB / >9 dB. Isolation (FM / TV): >16 / >15. Return loss (FM / TV): >12 / >12. Included: fixing claws. Cover plate code: 8650.		
	8150.7	2CLA815070A1001	10

Product	Article-No.	Order-No.	Pack/Qty
	**TV-R/SAT terminal outlet** TV-R and SAT double outlet - Final. Installation as a terminal outlet connected to a tap-off or splitter (without terminal resistor). Connection: screw terminal and clamp. Output connectors (C1 / C2): IEC male 9,52 mm. diam. / IEC female 9,52 mm. diam. Frequency range (I/O / C1 / C2): 5 - 2.400 MHz / 5 - 862 MHz / 930 - 2.400 MHz. Basic loss (FM / TV / SAT): 0,2±0,1 dB / 1,0 ±0,5 dB / 1,2±0,6 dB. Isolation (FM / TV / SAT): >45 / >14 / >14. Selectivity (TV-R / SAT): >15 / >15. Return loss (VR / FM / TV / SAT): >25 / >25 / >14 / >10. DC path (Vdc / mA / Tono): 24 max. / 500 max. / 22 KHz - DiSEqC. Included: fixing claws. Cover plate code: 8650.		
	8151.3	2CLA815130A1001	10
	**TV-R/SAT final outlet** TV-R and SAT double outlet - Final. Installation as a terminal outlet connected to a series with loop-through outlets. Connection: screw terminal and clamp. Output connectors (C1 / C2): IEC male 9,52 mm. diam. / IEC female 9,52 mm. diam. Frequency range (I/O / C1 / C2): 5 - 2.400 MHz / 5 - 2.400 MHz / 5 - 2.400 MHz. Basic loss (FM / TV / SAT): 3,7±0,3 dB / 4,0±0,5 dB / 5,0±1,2 dB. Isolation (FM / TV / SAT): >20 / >20 / >14. Return loss (VR / FM / TV / SAT): >16 / >16 / >16 / >9. DC path (Vdc / mA / Tono): 24 max. / 500 max. / 22 KHz - DiSEqC. Included: fixing claws. Cover plate code: 8650.		
	8151.7	2CLA815170A1001	10
	**TV-R/SAT loop-through outlet** TV-R and SAT double outlet - Intermediate Installation as an intermediate outlet in series connected to each other. Output connectors (C1 / C2): IEC male 9,52 mm. diam. / IEC female 9,52 mm. diam. Frequency range (I/O / C1 / C2): 5 - 2.400 MHz / 5 - 2.400 MHz / 5 - 2.400 MHz. Basic loss (FM / TV / SAT): 10,0±1,0 dB / 10,0±1,0 dB / 12,0±2,0 dB. Through loss (FM / TV / SAT): 2,5±0,5 / 2,5±0,7 / 3,0±1,0. Directivity (FM / TV / SAT): >20 / >12 / >5. Isolation (FM / TV / SAT): >45 / >30 / >28. Return loss (VR / FM / TV / SAT): >13 / >13 / >12 / >12. DC path (Vdc / mA / Tono): 24 max. / 500 max. / 22 KHz - DiSEqC. Included: fixing claws. Cover plate code: 8650.		
	8151.8	2CLA815180A1001	10
	**Cover plate for TV-R/SAT outlet** Cover plate for TV outlet code: 8150, 8150.3, 8150.7, 8151.3 , 8150.7 & 8150.8.		
Chrome	**8650 CR**	2CLA865000A1401	20
Black Glass	**8650 CN**	2CLA865000A1501	20

Sky Niessen & Skymoon

Telephone & data outlets

Product	Article-No.	Order-No.	Pack/Qty
	**Telephone outlet RJ12** RJ12 type connector. 6 contacts. Suitable for 2 (6P2C), 4 (6P4C) or 6 (6P6C) RJ11 and RJ12 jacks. Screw terminals. Mounting grid delivered with the cover plate. Cover plate code: 8618.1 & 8618.2.		
	2017.2	2CLA201720A1001	10
	**Telephone outlet RJ45 Cat.3** RJ45 type connector. Cat.3. 8 contacts. Suitable for 8 (8P8C) RJ45 jacks. Tool-less wiring. Mounting grid delivered with the cover plate. Cover plate code: 8618.1 & 8618.2.		
	2017.3	2CLA201730A1001	10
	**Data outlet RJ45 Cat.5e UTP** RJ45 type connector. Cat.5e UTP. In compliance with ANSI/TIA/EIA 568B.2, ISO/IEC11801 & EN50173. Universal TIA/EIA 568A and 568B labeling. Housing: ABS UL-94-0. Durability: 750 cycles min. (ISO/IEC 11801, IEC 60603-7-4). IDC: PC UL94V-0, Accept 22-26AWG solid wire. Contact: RJ45 8P8C, 3~50 micro-inch gold plating over nickel plated on contact area. Tool-less wiring. Mounting grid delivered with the cover plate. Cover plate code: 8618.1 & 8618.2.		
	2018.5	2CLA201850A1001	10
	**Data outlet RJ45 Cat.6 UTP** RJ45 type connector. Cat.6 UTP. In compliance with ANSI/TIA/EIA 568B.2, ISO/IEC11801 & EN50173. Universal TIA/EIA 568A and 568B labeling. Housing: ABS UL-94-0. Durability: 750 cycles min. (ISO/IEC 11801, IEC 60603-7-4). IDC: PC UL94V-0, Accept 22-26AWG solid wire. Contact: RJ45 8P8C, 3~50 micro-inch gold plating over nickel plated on contact area. Tool-less wiring. Mounting grid delivered with the cover plate. Cover plate code: 8618.1 & 8618.2.		
	2018.6	2CLA201860A1001	10
	**Data outlet RJ45 Cat.6A STP** RJ45 type connector. Cat.6A STP. In compliance with ANSI/TIA/EIA 568B.2 , ISO/IEC11801 & EN50173. Universal TIA/EIA 568A and 568B Labeling. 10 Gb/sec. Durability: 750 cycles min. (ISO/IEC 11801, IEC 60603-7-4). Housing: Zinc Die-casting design for optimal EMI protection. Slim size is ideal for interfaces where the spaces are tight. IDC: PC UL94V-0, Accept 22-26AWG solid wire. Contact: RJ45 8P8C, 3~50 micro-inch gold plating over nickel plated on contact area. Tool-less wiring. Mounting grid delivered with the cover plate. Cover plate code: 8618.1 & 8618.2.		
	2018.7	2CLA201870A1001	10

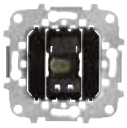
Product	Article-No.	Order-No.	Pack/Qty
	**Housing for data outlets - Keystone type** Housing for connectors with Keystone type clipping system. Mounting grid delivered with the cover plate. Cover plate code: 8618.1 & 8618.2.		
	2018	2CLA201800A1001	10
	**Housing for data outlets - Systimax type** Housing for connectors with Systimax type clipping system. Mounting grid delivered with the cover plate. Cover plate code: 8618.1 & 8618.2.		
	2018.8	2CLA201880A1001	10
	**Cover plate for data outlet 1-gang** Cover plate for data outlets code: 2017.2, 2017.3, 2018, 2018.5, 2018.6 & 2018.8. Included: mounting grid without claws. Without shutters and labeling area.		
Chrome	**8618.1 CR**	2CLA861810A1401	2
Black Glass	**8618.1 CN**	2CLA861810A1501	2
	**Cover plate for data outlet 2-gangs** Cover plate for data outlets code: 2017.2, 2017.3, 2018, 2018.5, 2018.6 & 2018.8. Included: mounting grid without claws. Without shutters and labeling area.		
Chrome	**8618.2 CR**	2CLA861820A1401	2
Black Glass	**8618.2 CN**	2CLA861820A1501	2

Sky Niessen & Skymoon

Light controls - Rotatory dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**Universal rotatory/push dimmer** Rated voltage: 230 Vac / 50 Hz. Min. power: 60 W / VA. Max. power: - Incandescent: 500 W. - Halogen lamp with electronic transformer: 500 VA. - Halogen lamp with ferromagnetic transformer: 400 VA. 2 wire connection. Optional: auxiliary control with 8104.X push-buttons. Indicator LED lamp included. Operating temperature: 0 - 30º C. Included: - Cover plate with chrome ring. - Mounting grid without claws.		
Chrome	**8660 CR**	2CLA866000A1401	1
Black Glass	**8660 CN**	2CLA866000A1501	1
	**LED rotatory/push dimmer** Rated voltage: 230 Vac ± 10%. Frequency: 50 Hz (Nominal power: 250 W/VA) / 60 Hz (Nominal power: 200 W/VA). Power (min./max load): - LEDi: 2 / 100 W/VA (max. 10 lamps). - Dimmable energy saving lamps: 2 / 100 W/VA (max. 10 lamps). - LV LEDi with transformer (only type L or LC): 4 / 100 W / VA (max. 10 lamps). - Incandescent lamps: 10 / 250 W / VA. - Halogen lamps: 10 / 250 W / VA. - LV halogen with transformer (only type L or LC): 10 / 250 W/VA (max. 10 lamps). 2 wire connection. Optional: auxiliary on/off with 2-way switch 8102. Indicator LED lamp included. Back-up fuse: Electronic. Overload protection: Electronic. Ambient temperature: 0° C to +35° C. Included: - Cover plate with chromes ring. - Mounting grid without claws.		
Chrome	**8660.2 CR**	2CLA866020A1401	1
Black Glass	**8660.2 CN**	2CLA866020A1501	1
	**1-10V rotatory dimmer** Rated voltage: 127 - 230 Vac / 50 - 60 Hz. Dimmable electronic ballast/driver with 1-10V control input. Max. power: - 230 Vac: 700 VA. - 127 Vac: 350 VA. Max. 6 ballasts per device. Indicator LED lamp included. Included: - Cover plate with chrome ring. - Mounting grid without claws.		
Chrome	**8660.9 CR**	2CLA866090A1401	1
Black Glass	**8660.9 CN**	2CLA866090A1501	1

Buzzer / Door bell

Product	Article-No.	Order-No.	Pack/Qty
	**Buzzer** Rated voltage: 230 Vac / 50 Hz. Rated power: 8 VA. Adjustable tone. Acoustic power at 1 meter with cover plate: 75 dB. Without fixing claws. Cover plate code: 8629.		
	8119	2CLA811900A1001	10
	**Electronic door bell with 4 melodies** Rated voltage: 110 - 250 Vac. 4 melodies available. Acoustic power at 1 meter with cover plate: 72 dB. Without fixing claws. Cover plate code: 8629.		
	8124.2	2CLA812420A1001	1
	**Cover plate for buzzer/door bell** Cover plate for buzzer / door bell code: 8119 & 8124.2.		
Chrome	**8629 CR**	2CLA862900A1401	5
Black Glass	**8629 CN**	2CLA862900A1501	5

Blank covers / Cable outlets

Product	Article-No.	Order-No.	Pack/Qty
	**Blank cover plate** Included: mounting grid and cover plate. Without fixing claws.		
Chrome	**8600 CR**	2CLA860000A1401	2
Black Glass	**8600 CN**	2CLA860000A1501	2
	**Cable outlet** 3 connection screw terminals up to 2,5 mm2. Cable tie included. Included: fixing claws. Cover plate code: 8607.		
	8107	2CLA810700A1001	10
	**Cover plate for cable outlet** Cover plate for cable outlet code: 8107.		
Chrome	**8607 CR**	2CLA860700A1401	5
Black Glass	**8607 CN**	2CLA860700A1501	5

Sky Niessen & Skymoon - Frames

White Glass

Product	Article-No.	Order-No.	Pack/Qty
	**Frames 1 to 3-gang - Noble - White Glass** Material: glass. Size (height x width): - 1-gang: 86 x 86 mm. - 2-gang: 86 x 157 mm. - 3-gang: 86 x 228 mm. Flush mounting boxes code: 1199, 1999 & 1999.2. Surface mounting boxes code: 8591, 8592 & 8593.		
1-gang	**8671 CB**	2CLA867100A3001	1
2-gang	**8672 CB**	2CLA867200A3001	1
3-gang	**8673 CB**	2CLA867300A3001	1

Black Glass

Product	Article-No.	Order-No.	Pack/Qty
	**Frames 1 to 3-gang - Noble - Black Glass** Material: glass. Size (height x width): - 1-gang: 86 x 86 mm. - 2-gang: 86 x 157 mm. - 3-gang: 86 x 228 mm. Flush mounting boxes code: 1199, 1999 & 1999.2. Surface mounting boxes code: 8591, 8592 & 8593.		
1-gang	**8671 CN**	2CLA867100A3101	1
2-gang	**8672 CN**	2CLA867200A3101	1
3-gang	**8673 CN**	2CLA867300A3101	1

Stainless Steel

Product	Article-No.	Order-No.	Pack/Qty
	**Frames 1 to 3-gang - Noble - Stainless Steel** Material: stainless steel. Size (height x width): - 1-gang: 86 x 86 mm. - 2-gang: 86 x 157 mm. - 3-gang: 86 x 228 mm. Flush mounting boxes code: 1199, 1999 & 1999.2. Surface mounting boxes code: 8591, 8592 & 8593.		
1-gang	**8671 OX**	2CLA867100A4001	1
2-gang	**8672 OX**	2CLA867200A4001	1
3-gang	**8673 OX**	2CLA867300A4001	10

Impressivo
Zest for life.

Convenient, adaptable and modular. Has got the ability to do whatever you can imagine. A modern design combined with functions which meet all requirements of contemporary living. Impressivo amazes with its flexibility. Flush and surface mounting is possible in common dry and wet environments.



01 white
02 aluminium
03 anthracite
04 black matt

Materials
UV-resistant, free of PVC and halogen.

Impressivo

Selected functions.

01 

02 

03 

04 

05 

06 

07 

08 

09 

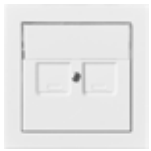
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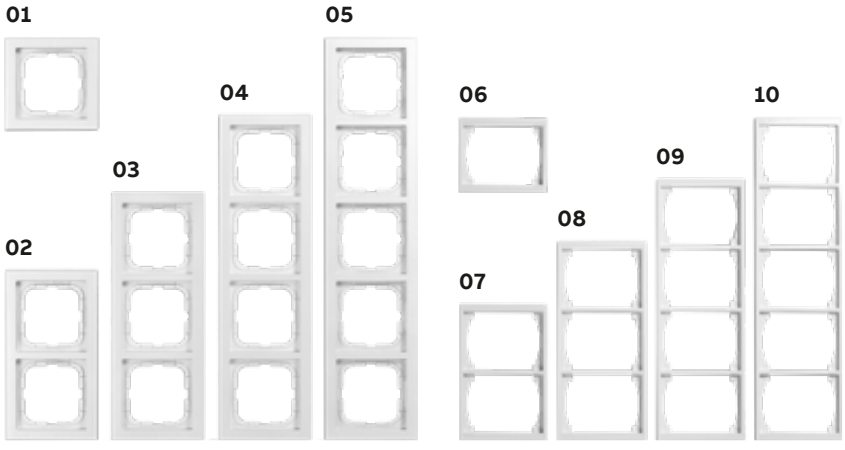
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01 Rocker switch 1-gang
02 Rocker switch 2-gang
03 2-gang push switch
04 3-gang 1-way switch
05 Switch rocker 1-gang, “bell” symbol
06 Comfort switch
07 Rotary dimmer
08 SCHUKO® socket outlet
09 SCHUKO® USB socket outlet, 2x USB A
10 USB power adapter insert, 2x USB A
11 Euro socket outlet
12 Double SCHUKO® socket outlet
13 2-gang SCHUKO® socket outlet, IP 44
14 Residual current device
15 RJ45 outlet with sliding dust covers
16 IceLight with symbol
17 Movement detector
18 LED signal light
19 Thermostat
20 Timer
21 Timer
22 4/2-gang push button panel
23 Busch-Radio DAB+
24 Loudspeaker for DigitalRadio
25 KNX-thermostat
26 ABB-free@home®, 2-gang switch
27 USB power adapter insert, USB A & C



1- to 5-gang cover frame for horizontal and vertical installation
01 85 mm x 85 mm
02 85 mm x 156 mm
03 85 mm x 227 mm
04 85 mm x 298 mm
05 85 mm x 369 mm

1- to 5-gang cover frame for double socket outlets, for horizontal and vertical installation
06 100 mm x 85 mm
07 100 mm x 156 mm
08 100 mm x 227 mm
09 100 mm x 298 mm
10 100 mm x 369 mm

For more information about light switch ranges visit ABB global web sites.

Impressivo

Rocker switches, push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Flush mounting 1-gang switches, IP21** Switches with screwless terminals and rocker with clip-on fastening. The terminals are for max 2 rigid wires. Flush mounting on a smooth surface IP21.		
	Includes switch insert and rocker		
	1-gang 2-way switch, 16AX/250V, 2 X-terminals		
white	**1066UC-84**	2TKA00000419	1/10
	1-gang intermediate switch, 16AX/250V, 2 X-terminals		
white	**1067UC-84**	2TKA00000422	1/10
	Modular		
	1-gang 2-way switch insert, 16AX/250V, 2 X-terminals, lamp possibility		
	1066.21	2TKA000175G1	10/100
	1-gang intermediate switch insert, 16AX/250V, 2 X-terminals, lamp possibility		
	1067.21	2TKA000201G1	10/100
	Double pole 1-gang 2-way switch insert, 16AX/250V, no X-terminals, lamp possibility		
	10662.00	2TKA000177G1	10/100
	Switch rocker, 1-gang		
white	**1786-84**	2TKA000543G1	1/10
	Switch rocker, 1-gang		
anthracite	**1786-81**	2TKA000541G1	1/10
	Switch rocker, 1-gang		
aluminium	**1786-83**	2TKA000542G1	1/10
	**Flush mounting 1-gang 1-way push switch, IP21** Push switches with screwless terminals and rocker with clip-on fastening. The terminals are for max 2 rigid wires. Flush mounting on a smooth surface IP21.		
	Includes switch insert and rocker		
	1-gang 2-way push switch, 16A/250V, 1N terminal		
white	**1466UC-84**	2TKA00000430	1/10
	Modular		
	1-gang 1-way push switch insert 16A/250V, 2 X-terminals, lamp possibility		
	1461.21	2TKA000227G1	10/100
	Switch rocker, 1-gang		
white	**1786-84**	2TKA000543G1	1/10
	Switch rocker, 1-gang		
anthracite	**1786-81**	2TKA000541G1	1/10
	Switch rocker, 1-gang		
aluminium	**1786-83**	2TKA000542G1	1/10
	Switch rocker, 1-gang, "light" symbol, lens		
white	**1789LI-84**	2TKA000569G1	1/10
	Switch rocker, 1-gang, "light" symbol, lens		
anthracite	**1789LI-81**	2TKA000567G1	1/10
	Switch rocker, 1-gang, "light" symbol, lens		
aluminium	**1789LI-83**	2TKA000568G1	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**Flush mounting 2-pole switch, IP21** Switches with screwless terminals and rocker with clip-on fastening. The terminals are for max 2 rigid wires. Flush mounting on a smooth surface IP21.		
	Includes switch insert and rocker		
	2-pole 1-gang 1-way switch, 16AX/250V, 2 X-terminals		
white	**1062UC-84**	2TKA00000407	1/10
	Modular		
	Switch insert, 16AX/250V, 2-pole, 2 X-terminals, lamp possibility		
	1062.21	2TKA000130G1	10/100
	Switch rocker, 1-gang, red lens, "1/0" symbol		
anthracite	**1788-81**	2TKA000549G1	1/10
	Switch rocker, 1-gang, red lens, "1/0" symbol		
aluminium	**1788-83**	2TKA000550G1	1/10
	**Flush mounting 2-gang switches, IP21** Switches with screwless terminals and rocker with clip-on fastening. The terminals are for max 2 rigid wires. Flush mounting on a smooth surface IP21.		
	Includes switch insert and rocker		
	2-gang 1-way switch, 16AX/250V, 2 X-terminals		
white	**1065UC-84**	2TKA00000413	1/10
	2-gang 2-way switch, 16AX/250V, no X-terminals		
white	**10666UC-84**	2TKA00000416	1/10
	Modular		
	2-gang 1-way switch insert, 16AX/250V, 2 X-terminals, no lamp possibility		
	1065.20	2TKA000158G1	10/100
	2-gang 2-way switch insert, 16AX/250V, no X-terminals, no lamp possibility		
	10666.00	2TKA000179G1	10/100
	Switch rocker, 2-gang		
white	**1785-84**	2TKA000523G1	1/10
	Switch rocker, 2-gang		
anthracite	**1785-81**	2TKA000521G1	1/10
	Switch rocker, 2-gang		
aluminium	**1785-83**	2TKA000522G1	1/10
	**Flush mounting 2-pole + 1-way switch, IP21** The switch has one 1-way switch and one 2-pole 1 switch together. Switches with screwless terminals and rocker with clip-on fastening. The terminals are for max 2 rigid wires. Flush mounting on a smooth surface IP21. No X-terminals.		
	Includes switch insert and rocker		
white	**10621UC-84**	2TKA00000404	1/10
anthracite	**10621UC-81**	2TKA00000402	1/10
aluminium	**10621UC-83**	2TKA00000403	1/10

Impressivo

Rocker switches, push switches

Product	Article-No.	Order-No.	Pack/Qty
	**2-gang push switch inserts** 2-gang push switches with screwless terminals and rocker with clip-on fastening. The terminals are for max 2 rigid wires. Flush mounting on a smooth surface IP21.		
	Modular		
	Push switch insert 10A/250V, for up/down control		
	2020/4U-101	2TKA000640G1	10/100
	Switch rocker, 2-gang, "up/down" symbol		
white	**1785JA-84**	2TKA000532G1	1/10
	Switch rocker, 2-gang, "up/down" symbol		
anthracite	**1785JA-81**	2TKA000530G1	1/10
	Switch rocker, 2-gang, "up/down" symbol		
aluminium	**1785JA-83**	2TKA000531G1	1/10
	**Flush mounting 3-gang 1-way switch, IP21** Switches with screwless terminals and rocker with clip-on fastening. The terminals are for max 2 rigid wires. Flush mounting on a smooth surface IP21.		
	Includes switch insert and rocker		
	3-gang 1-way switch, 16AX/250V, no X-terminals		
white	**10631UC-84**	2TKA00000410	1/10
	Modular		
	3-gang 1-way switch insert, 16AX/250V, no X-terminals, no lamp possibility		
	10631.00	2TKA000147G1	10/100
	Switch rocker, 3-gang		
anthracite	**1783-81**	2TKA000514G1	1/10
	Switch rocker, 3-gang		
aluminium	**1783-83**	2TKA000515G1	1/10
	**Flush mounting 1-gang 2-way switch, IP44** Product includes switch insert, rocker, cover frame, screw-mounted rocker frame and seal. Screwless terminals are for max 2 rigid wires. Flush mounting on rough surface IP44. 16AX/250V, no X-terminals.		
	1066UW-84	2TKA000200G1	1/10
	**Flush mounting 2-gang 1-way switch, IP44** Product includes switch insert, rocker, cover frame, screw-mounted rocker frame and seal. Screwless terminals are for max 2 rigid wires. Flush mounting on rough surface IP44. 16AX/250V, no X-terminals		
	1065UW-84	2TKA000173G1	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**Card switch** Card switch can be used, for example, as a hotel room "main switch". The card switch is operated with a credit card sized card. Delivery includes a 230V lamp.		
	Card switch insert, 16AX/250V, 2-pole, no X terminals, lamp included		
	8114.1	2TKA003950G1	10/100
	Center plate, for card switch 8114.1		
white	**1792-84**	2TKA000581G1	1/10
	Center plate, for card switch 8114.1		
anthracite	**1792-81**	2TKA000579G1	1/10
	Center plate, for card switch 8114.1		
aluminium	**1792-83**	2TKA000580G1	1/10
	Lamp, 230V/1.5mA, fluorescent, for card switch		
	8331	2TKA000042G1	10/100
	**Push button panel 4/2-gang, 5-24V ac/dc** 4/2-gang push button panel to control bistable relays or electronic control systems. Load capacity 1A AC/DC. White LED-light with adjustable illumination. Installation on surface or on top of a standard flush mounting box.		
white	**FAP1204-84**	2TKA00000915	1/10
anthracite	**FAP1204-81**	2TKA00000913	1/10
aluminium	**FAP1204-83**	2TKA00000914	1/10
black matt	**FAP1204-885**	2TKA00004486	1/10
	1-gang rockers, IP21/IP44 1-gang rockers for all 1-gang switch inserts. Flush- and surface mounting: Protection class IP21, and IP44 with a seal and screw fastening rocker frame.		
white	**1786-84**	2TKA000543G1	1/10
anthracite	**1786-81**	2TKA000541G1	1/10
aluminium	**1786-83**	2TKA000542G1	1/10
	**1-gang rockers with name plate, IP21/IP44** 1-gang rockers for all 1-gang switch inserts. Flush- and surface mounting: Protection class IP21, and IP44 with a seal and screw fastening rocker frame. The rockers have a name plate (59,7 mm x 11,7 mm) with a strip for writing. The delivery includes one blank strip and one strip with the text "MASTER".		
white	**1764NLI-84**	2TKA000492G1	1/10
anthracite	**1764NLI-81**	2TKA000490G1	1/10
aluminium	**1764NLI-83**	2TKA000491G1	1/10

Impressivo

Rocker switches, push switches

Product	Article-No.	Order-No.	Pack/Qty
	**1-gang rockers with red lens, IP21/IP44** 1-gang rockers for all 1-gang switch inserts. Flush- and surface mounting: Protection class IP21, and IP44 with a seal and screw fastening rocker frame. The rockers contain a red lens.		
	Switch rocker, 1-gang, red lens		
white	**1789-84**	2TKA000559G1	1/10
	Switch rocker, 1-gang, red lens		
anthracite	**1789-81**	2TKA000557G1	1/10
	Switch rocker, 1-gang, red lens		
aluminium	**1789-83**	2TKA000558G1	1/10
	**1-gang rockers with transparent lens and "light" symbol, IP21/IP44** 1-gang rockers for all 1-gang switch inserts. Flush- and surface mounting: Protection class IP21, and IP44 with a seal and screw fastening rocker frame. The rocker contains transparent lens and "Light" symbol.		
white	**1789LI-84**	2TKA000569G1	1/10
anthracite	**1789LI-81**	2TKA000567G1	1/10
aluminium	**1789LI-83**	2TKA000568G1	1/10
	**1-gang rockers with transparent lens and "key" symbol, IP21/IP44** 1-gang rockers for all 1-gang switch inserts. Flush- and surface mounting: Protection class IP21, and IP44 with a seal and screw fastening rocker frame. The rocker contains transparent lens and "key" symbol.		
white	**1789TR-84**	2TKA000574G1	1/10
anthracite	**1789TR-81**	2TKA000572G1	1/10
aluminium	**1789TR-83**	2TKA000573G1	1/10
	**1-gang rockers with transparent lens and "bell" symbol, IP21/IP44** 1-gang rockers for all 1-gang switch inserts. Flush- and surface mounting: Protection class IP21, and IP44 with a seal and screw fastening rocker frame. The rocker contains transparent lens and "bell" symbol.		
white	**1789KL-84**	2TKA000564G1	1/10
anthracite	**1789KL-81**	2TKA000562G1	1/10
aluminium	**1789KL-83**	2TKA000563G1	1/10
	**Seal for switches, IP44** Seal for 85mm cover frame. Switches and push switches are IP21 when installed on a rough surface with a seal. Protection class is IP44 when using screw-mounted rocker frame with a seal.		
	2463	2TKA000002G1	20/200

Product	Article-No.	Order-No.	Pack/Qty
	**Screw-mounted rocker frames, IP44** Screw-mounted rocker frames are used with the seals 2463 or 2464 to reach IP44 protection class on switches and push switches. Furthermore, it can be used to connect the switch frame to the insert for improved security.		
	Supporting frame for 1/3-gang rocker, screw fastening		
	2474	2TKA000004G1	20/200
	Supporting frame for 2-gang rocker, screw fastening		
	2475	2TKA000005G1	20/200
	**Lamps for switches** Lamps for switches and push buttons. Lamps can be installed in 1-gang switch inserts that include the signal-/search light possibility. Lamps can't be installed in 2- or 3-gang switch inserts.		
	Lamp, 230V/0.4mA, fluorescent, for 1-gang switches		
	8370	2TKA000045G1	10/100
	Lamp, 230V/2mA, fluorescent, for 1-gang switches		
	8372	2TKA000047G1	10/100
	Lamp, 24V/22mA, incandescent, for 1-gang switches		
	8375	2TKA000048G1	10/100
	Lamp, 12V/40mA, incandescent, for 1-gang switches		
	8376	2TKA000049G1	10/100
	Lamp, 230V/1.5mA, fluorescent, for card switch		
	8331	2TKA000042G1	10/100
	Lamp, 250V/0.4mA, LED, for 1-gang switches		
	8370R	2TKA00003241	10/100
	Lamp, 5-24V/0,5-2,5mA, LED, for 1-gang switches		
	8375R	2TKA00003242	10/100

Impressivo
Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**Flat LED-dimmer, with rotary control** Rotary control dimmer for LED lamps. Via mode switch adjustable between leading edge control (RL) or trailing edge control (RC). 2-wire connection (N-wire not needed). Nominal power: 2 - 100 VA or 10-400W (details in manual). Linear and low-noise operation. Mixed loads allowed. Electronic short-circuit and overload protection. Adjustable minimum brightness. Also applicable for 1-gang 2-way installations. Nominal voltage 230 V/50-60 Hz. Maximum 20 LED lamps behind one dimmer. Compatibility with defined Philips LED lamps is guaranteed. 		
	LED dimmer, rotary 2-100VA, with neon lamp		
	6523URCGL-84-103	2CKA006512A0347	1/10
	LED dimmer, rotary 2-100VA, insert with neon lamp		
	6523UR-103-500	2CKA006512A0345	1/10
	Dimmer center plate, with neon lamp		
white	**6540-84-102-510**	2CKA006599A3037	1/10
	Dimmer center plate, with neon lamp		
anthracite	**6540-81-102-510**	2CKA006599A3035	1/10
	Dimmer center plate, with neon lamp		
aluminium	**6540-83-102-510**	2CKA006599A3036	1/10
black matt	**6540-885-102-510**	2CKA006599A3044	1/10

Note! There might be limitations from transformer producers on how many dimmable LED bulbs can be connected behind one transformer.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-rotary dimmer [1])** **Flush-mounted, DALI, with internal power supply, tunable white** For DALI broadcast service (via central telegram). With integrated DALI power adaptor. For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface. With rotary control and ON/OFF push operation. For changing the colour temperature of "tunable white" lamps, which meet DALI Standard IEC 62386-209 (Device Type 8). Colour temperature can then be set between 2,700 K - 6,500 K. With electronic short-circuit protection. With electronic overload protection. Brightness power-on level and backround brightness level adjustable, buffered. With integrated LED illumination for orientation. Color of orientation light adjustable (18 presets and OFF). Up to 5 potentiometers are connectable in parallel. Up to 3 potentiometers are connectable in parallel in active mode. Not suitable for combining with other DALI sensors or central units of other manufacturers. DALI-voltage: 15,5 V= Rated current: max. 75 mA Power consumption: < 2,5 W Number of DALI-units: 37 in case of one active power-potentiometer in case of three active power-potentiometer in parallel connection: 111 Active mode: the potentiometer is supporting the necessary control circuit for other DALI-devices. Passive mode: the potentiometer is suitable as additional operation point. Max. DALI-cable length: 300 m (1,5 - 2,5 mm²). Without cover plate. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Protection class (Device): IP 20 Temperature range (Device): 0 °C to 35 °C		
	2116/11UJGL-84	2CKA006599A3031	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, Part 1, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	Sold in parts		
	DALI dimmer, with internal power supply, tunable white, insert		
	2116/11U	2CKA006599A3026	1/10
	Dimmer center plate with neon lamp		
white	**6540-84-102-510**	2CKA006599A3035	1/10
	Dimmer center plate, with neon lamp		
anthracite	**6540-81-102-510**	2CKA006599A3035	1/10
	Dimmer center plate, with neon lamp		
aluminium	**6540-83-102-510**	2CKA006599A3036	1/10
black matt	**6540-885-102-510**	2CKA006599A3044	1/10
	**DALI-potentiometrs** For DALI broadcast service (via central telegram) according standard IEC 62386. For switching and dimming up to 64 DALI- devices like electronic ballasts and transformers with DALI-interface. With (2117/11U-500)or without (2117U-500) power supply. No center plate or frame included.		
	Inserts		
	DALI potentiometer insert		
	2117U-500	2TKA00001861	1/10
	With integrated power supply		
	2117/11U-500	2TKA00001865	1/10
	Dimmer center plate, with neon lamp		
white	**6540-84-102-510**	2CKA006599A3037	1/10
anthracite	**6540-81-102-510**	2CKA006599A3035	1/10
aluminium	**6540-83-102-510**	2CKA006599A3036	1/10
black matt	**6540-885-102-510**	2CKA006599A3044	1/10
	Sold in parts		
	Dimmer, 60-600 VA, insert END OF LIFE		
	2250U	2TKA000723G1	1/10
	Dimmer center plate, with neon lamp		
white	**6540-84-102-510**	2CKA006599A3037	1/10
	Dimmer center plate, with neon lamp		
anthracite	**6540-81-102-510**	2CKA006599A3035	1/10
	Dimmer center plate, with neon lamp		
aluminium	**6540-83-102-510**	2CKA006599A3036	1/10
black matt	**6540-885-102-510**	2CKA006599A3044	1/10

Impressivo
Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	Sold in parts		
	Dimmer insert, 20-500 VA		
	2247U	2TKA000721G1	1/10
	Dimmer insert, 200-700 VA		
	6520U	2TKA001447G1	1/10
	Dimmer center plate, with neon lamp		
white	**6540-84-102-510**	2CKA006599A3037	1/10
	Dimmer center plate, with neon lamp		
anthracite	**6540-81-102-510**	2CKA006599A3035	1/10
	Dimmer center plate, with neon lamp		
aluminium	**6540-83-102-510**	2CKA006599A3036	1/10
black matt	**6540-885-102-510**	2CKA006599A3044	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**Potentiometer 1-10 V** Potentiometer 1-10 V. For controlling electronic control gears for fluorescent lamps, analogy adjustment (IEC 929). Nominal voltage: 230 V/50 Hz. Control current max. 50 mA DC. Switching capability 4 A cos ϕ 0,9. Up to 4 control gears can be directly connected to 1 dimmer. With larger loads an external relay or contactor must be used.		
	Includes insert and center plate		
	Potentiometer 1-10 V		
white	**2112UJGL-84-101**	2CKA006599A3029	1/10
	Sold in parts		
	Potentiometer insert 1-10 V		
	2112 U-101-500	2CKA006599A2873	1/10
	Dimmer center plate, with neon lamp		
white	**6540-84-102-510**	2CKA006599A3037	1/10
	Dimmer center plate, with neon lamp		
anthracite	**6540-81-102-510**	2CKA006599A3035	1/10
	Dimmer center plate, with neon lamp		
aluminium	**6540-83-102-510**	2CKA006599A3036	1/10
black matt	**6540-885-102-510**	2CKA006599A3044	1/10

Impressivo

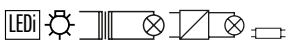
Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**Touch controller 1-10 V** Touch controller 1-10 V. For conrolling electronic control gears for fluorescent lamp, analogy adjustment (IEC 929). Nominal voltage: 230 V/50 Hz. Control current max. 50 mA DC. Coupling ability 4 A cos ϕ 0,9 or cos ϕ 0,5. 4 gears can be directly connected to one dimmer. With larger loads an external relay or contactor must be used. 230 V closing push buttons can be used as extension dimmers for on/off and control functions.		
	Sold in parts		
	Touch controller 1-10 V, insert **6550U-101**	2TKA001477G1	1/10
	Touch dimmer center plate, with neon lamp		
white	**6543-84-101**	2TKA001469G1	1/10
	Touch dimmer center plate, with neon lamp		
anthracite	**6543-81-101**	2TKA001467G1	1/10
	Touch dimmer center plate, with neon lamp		
aluminium	**6543-83-101**	2TKA001468G1	1/10
black matt	**6543-885-101**	2CKA006599A2968	1/10

Note! Neon indication lamp does not work in this application.

Movement detectors

	**ABB flexTronics inserts** 3 wire connection (neutral wire required). For switching lighting systems. For switching two independent load circuits. For controlling light and ventilation systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Comfort switch flex control element 64765-... . For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with extension insert, 64891 U. Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)	
	64821 U-500	2CKA006800A3045
	64814 U-500	2CKA006800A3048
	64891 U-500	2CKA006800A3051
	64851 U-500	2CKA006500A0013

	**Relay insert flex, 2gang [1])** 3 wire connection (neutral conductor required). For switching lighting systems. For switching two independent load circuits. For controlling light and ventilation systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Comfort switch flex control element 64765-... . For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with extension insert, 64891 U. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 2 Outputs: 2x Normally open contact, potential-bound Suitable for: 230 V- LEDi, typical. Rated power: 300 VA Suitable for: 230 V incandescent lamps/230 V halogen lamps Rated power: 1840 W Suitable for: Low voltage halogen lamps that are operated via transformers. Rated power: 1150 VA Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm Mounting depth: 25 mm 		
	64821 U-500	2CKA006800A3045	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Impressivo

Movement detectors



e-contact insert flex, 1gang [1] [2]
2-wire connection (neutral conductor not required)
Neutral conductor optionally connectable (recommended for the connection of low loads < 10 W/VA).
For switching lighting systems.
Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units.
Operation also possible via conventional push buttons (2020 US, 2021/6 UK).
Without control cover.
For control element flex, 1gang, wireless, 62711-WL.
For control element flex, 2gang, wireless, 62721-WL.
For Busch-Watchdog 180 flex sensors 6476x-... .
For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL.
Combinable with extension insert, 64891 U.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Inputs: 1
Outputs: 1x Normally open contact, potential-bound
Suitable for: 230 V- LEDi, typical.
Rated power: 3 - 240 VA
Suitable for: 230 V incandescent lamps/230 V halogen lamps
Rated power: 10 - 240 W
Suitable for: Low voltage halogen lamps that are operated via transformers.
Rated power: 3 - 240 VA
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm
Mounting depth: 25 mm



64814 U-500	2CKA006800A3048	1

[1] Use only dimmable high-voltage LEDs.
[2] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)



LED dimmer insert flex, 1gang [1] [2] [3] [4] [5] [6] FM, LED, 3-240 VA
2-wire connection (neutral conductor not required).Neutral conductor optionally connectable (recommended for the connection of low loads < 10 W/VA). Touch dimmer for switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. With manually adjustable operating mode: trailing / leading edge control. With adjustable minimum brightness. With light-level memory and minimum brightness memory. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. Without control cover. For control element flex, 1gang, 64711. For control element flex, 2gang, 64721. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Rated power: 3-240 VA (LEDi). Rated voltage: 230 V~, +10 % / -10 %. Rated frequency: 50 Hz. Inputs: 1. Outputs: 1x dimming channel. Suitable for: 230 V LEDi, typical (leading edge control). Rated power: 3 - 100 VA. Suitable for: 230 V LEDi, typical (trailing edge control). Rated power: 3 - 240 W. Suitable for: 230 V incandescent lamps, 230 V halogen lamps and low-voltage halogen lamps with conventional transformers or Busch Electronic Transformer. Rated power: 10 - 240 VA.Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm. Mounting depth: 25 mmIEC 60669-2-1, British Standard EN 60669-2-1



64851 U-500	2CKA006500A0013	1

[1] In the case of conventional transformers, take ~20% transformer loss into account.
[2] In case of electronic transformers, 5 % transformer losses.
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Recommendation: Please use loads and types of one producer.
[5] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[6] A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.



Extension insert flex [1]
3 wire connection (neutral conductor required). For the extension of the Busch-Comfort switch or presence detector installations. For group control of flex inserts via extension unit communication. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with all flex inserts. Rated voltage: 230 V~, +10 % / -10 %. Rated frequency: 50 Hz. Control/Signal outputs: 1, electronic output, potential-bound. Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm. Mounting depth: 25 mm

64891 U-500	2CKA006800A3051	1

[1] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Impressivo

Movement detectors

Comfort switch flex sensor
Movement detector push-button switch combination. Movement detector push-button switch combination. For switching lighting systems that depend on brightness and movement. Push switch function possible at all times. Extension of the detection range by means of master/slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. Adjustable operating mode: automatic mode, automatic (motion-controlled) switch-on and switch-off. Adjustable operating mode: semiautomatic, manual switch-on, automatic (timer and movement-controlled) switch-off. Adjustable operating mode: automatic mode, automatic switch-on, manual switch-off. With continuous light/continuous Off function. Adjusting elements on rear side. Surveillance density: 9 sectors with 28 switching segments. Switch-off delay: 1 to 10 min., adjustable. Compatible with all free@home flexTronics inserts. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Please order the respective flush-mounted insert separately. The range specifications refer only to an ambient temperature of 21°C.

64765-81-500	2CKA006800A2883
64765-83-500	2CKA006800A2887
64765-84-500	2CKA006800A2889
64765-885-500	2CKA006800A2895

Impressivo

Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flex, basic sensor** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Compatible with all free@home flexTronics inserts. Adjusting elements on rear side. Extension of the detection range by means of master/slave combination. With brightness-independent test mode for evaluating the detection zone. With detection display in test mode. Surveillance density: 14 sectors with 56 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 22 mm. Please order the respective flush-mounted insert separately. The range specifications refer only to an ambient temperature of 21°C.		
	64761-81-500	2CKA006800A2921	
	64761-83-500	2CKA006800A2925	
	64761-84-500	2CKA006800A2927	
	64761-885-500	2CKA006800A2933	
	**Busch-Watchdog 180 flex, comfort sensors with multi lens** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Push switch function possible at all times. In combination with dimmer insert flex: dimming function of lighting and selectable light value storage. With enabling of pre-warning of switch-off for stairwell operation. Compatible with all free@home flexTronics inserts. Adjusting elements on rear side. Extension of the detection range by means of master/slave combination. With continuous light/continuous Off function. With brightness-independent test mode for evaluating the detection zone. With detection display in test mode. Surveillance density: 14 sectors with 56 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 22 mm. Please order the respective flush-mounted insert separately. The range specifications refer only to an ambient temperature of 21°C.		
	64762-81-500	2CKA006800A2958	
	64762-83-500	2CKA006800A2962	
	64762-84-500	2CKA006800A2964	
	64762-885-500	2CKA006800A2970	

Product	Article-No.	Order-No.	Pack/Qty
	**ABB flexTronics inserts** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Push switch function possible at all times. For detection down to the floor. For detection in stairwells. With 4 detection levels. In combination with dimmer insert flex: dimming function of lighting and selectable light value storage. With enabling of pre-warning of switch-off for stairwell operation. Compatible with all free@home flexTronics inserts. Adjusting elements on rear side. Multi-lens: suitable also for mounting heights of 2.20 m. Extension of the detection range by means of master/slave combination. With continuous light/continuous Off function. With brightness-independent test mode for evaluating the detection zone. With detection display in test mode. Surveillance density: 54 sectors with 224 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 31 mm. Please order the respective flush-mounted insert separately. The range specifications refer only to an ambient temperature of 21°C.		
	64764-81-500	2CKA006800A2995	
	64764-83-500	2CKA006800A2999	
	64764-84-500	2CKA006800A3001	
	64764-885-500	2CKA006800A3007	

Impressivo

Timers

Product	Article-No.	Order-No.	Pack/Qty

Product	Article-No.	Order-No.	Pack/Qty
	**Countdown timer** User friendly timer with fixed time settings 15min, 30min, 1h, 2h, 4h or 8h. Countdown time is set with a screwdriver. 2-pole switch. **Includes insert and center plate**		
white	**T210-84**	2TKA00000875	1/10
anthracite	**T210-81**	2TKA00000876	1/10
aluminium	**T210-83**	2TKA00000877	1/10
black matt	**T210-885**	2TKA00004108	1/10
	**Timer switches** Timer switch display, 10 A. Four switching times per day can be user-defined for each day of the week. Automatic summer/wintertime switch-over. 14-hour power reserve. Nominal voltage: 230 V/50 Hz. Operating temperature range: 0 °C - 35 °C. Timer switch insert is connected to universal relay unit 6401U-102. Suitable center plates 6435-8X. **Inserts**		
	Universal relay unit insert, 10 A **6401U-102**	2TKA001428G1	1/10
	Timer switch display **6455-101-500** **Centre plates**	2TKA000025G1	1/10
white	**6435-84**	2TKA001434G1	1/10
aluminium	**6435-83**	2TKA001433G1	1/10
anthracite	**6435-81**	2CKA006430A0303	1/10
black matt	**6435-885**	2CKA006430A0389	1/10

Socket outlets

Product	Article-No.	Order-No.	Pack/Qty

Product	Article-No.	Order-No.	Pack/Qty
	**3-gang Euro socket outlets, flush mounting IP21** Product includes euro socket outlet insert and center plate. The socket outlet insert has shutters and screwless N and L terminals for max 4 wires and 2 screwless X-terminals for max 2 wires. The terminals are for rigid wires. Branching terminals.		
white	**303UC-84**	2TKA00000433	1/10
anthracite	**303UC-81**	2TKA00000340	1/10
aluminium	**303UC-83**	2TKA00000451	1/10
	**2-gang Schuko socket outlets, flush mounting, with cover plate, IP21** Product includes Schuko socket outlet insert and cover plate. The socket outlet insert has shutters and screwless terminals for max 4 rigid wires. Branching terminals.		
white	**302EUJ-84**	2TKA000952G1	1/10
anthracite	**302EUJ-81**	2TKA000951G1	1/10
aluminium	**302EUJ-83**	2TKA00000442	1/10
	**2-gang Schuko socket outlets, flush mounting in special 1,5 x box, IP21** Product includes Schuko socket outlet insert and cover plate. There are screwless terminals for each contact of the socket outlet for max 4 rigid wires. No X-terminals. The socket outlet insert has shutters. Flush mounting on a smooth surface IP21. Very flat construction. Installation in special 1,5X mounting box. Branching terminals.		
white	**302EUJT-84**	2TKA00002007	1/10
anthracite	**302EUJT-81**	2TKA00002005	1/10
aluminium	**302EUJT-83**	2TKA00002006	1/10

Impressivo

Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**2-gang Schuko socket outlets, flush mounting, IP21** Product includes Schuko socket outlet insert and center plate. The socket outlet insert has shutters and screwless terminals for max 4 rigid wires. Branching terminals.		
white	**302EUC-84**	2TKA00000431	1/10
anthracite	**302EUC-81**	2TKA00000440	1/10
aluminium	**302EUC-83**	2TKA00000441	1/10
	**2-gang Schuko outlets with special colour, IP21** Product includes Schuko socket outlet insert and center plate. The socket outlet insert has shutters and screwless terminals for max 4 rigid wires. These socket outlets can be used, for instance, in hospitals and offices, when there is a need to limit socket outlet use to certain applications. Flush mounting: On a smooth surface IP21, on a rough surface with a seal IP21. Surface mounting: IP21. Branching terminals.		
red	**302EUC-02**	2TKA00002962	1/10
orange	**302EUC-03**	2TKA00002963	1/10
green	**302EUC-05**	2TKA00002964	1/10
blue	**302EUC-06**	2TKA00002965	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**Flush mounting 2-gang Schuko socket outlets with lid IP21** Product includes Schuko socket outlet insert, center plate with lid. The socket outlet insert has shutters and screwless terminals. The terminals are for max 2 rigid wires. Flush mounting on slide surface IP21 and with seal 2464 on rough surface IP44. The seal 2464 is not included in delivery. Branching terminals.		
white	**302EUCK-84**	2TKA00003033	1/10
anthracite	**302EUCK-81**	2TKA00003031	1/10
aluminium	**302EUCK-83**	2TKA00003032	1/10
	**Non-earthed flush mounting 2-gang socket outlets IP21, with cover plate** Product includes socket outlet insert, center plate and cover frame. The socket outlet insert has shutters and screwless terminals for max 4 rigid wires. Claws can be fitted to socket outlet afterwards. Branching terminals.		
white	**302UJ-84**	2TKA00000432	1/10
anthracite	**302UJ-81**	2TKA00000339	1/10
aluminium	**302UJ-83**	2TKA00000338	1/10
	**Flush mounting 1-gang Schuko socket outlets IP21 with cover plate** Product includes Schuko socket outlet insert, center plate and cover frame. The socket outlet has shutters and screwless terminals for max 2 rigid wires.		
white	**20EUJ-84**	2TKA003848G1	1/10
anthracite	**20EUJ-81**	2TKA00000438	1/10
aluminium	**20EUJ-83**	2TKA00000439	1/10
	**1-gang Schuko socket outlets, flush mounting, IP21** Product includes Schuko socket outlet insert and center plate. The socket outlet has shutters and screwless terminals for max 2 rigid wires.		
white	**20EUC-84**	2TKA003846G1	1/10
anthracite	**20EUC-81**	2TKA00000434	1/10
aluminium	**20EUC-83**	2TKA00000435	1/10
	**Flush mounting 1-gang Schuko socket outlets with lid IP21** Product includes Schuko socket outlet insert and center plate. The socket outlet has shutters and screwless terminals for max 2 rigid wires.		
white	**20EUCK-84**	2TKA003847G1	1/10
anthracite	**20EUCK-81**	2TKA00000436	1/10
aluminium	**20EUCK-83**	2TKA00000437	1/10

Impressivo

Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**1-gang Schuko socket outlets, flush mounting, with LED light, IP20** Product includes Schuko socket outlet insert and center plate. A white color LED light is integrated into the socket outlet. The light can be controlled seperately or it can be connected to the socket terminals. The socket outlet insert has shutters. There are screwless terminals for max 2 rigid wires for each contact of the socket outlet.		
white	**20EUCBLI-84**	2TKA00000891	1/10
aluminium	**20EUCBLI-83**	2TKA00000889	1/10
	**1-gang Schuko socket outlet with center plate and USB charger, IP20** The socket outlet has an integrated USB charger 5V/0,7A with electronic short-circuit and overload protection. Power dissipation 0,1W. Compatible with USB devices, iPod and iPhone. The Schuko socket outlet is 16A/250V. There are screwless terminals for each contact of the socket outlet. The socket outlet has shutters. The terminals are for max 2 rigid wires. No X-terminals.		
white	**20EUCBUSB-84**	2TKA00001884	1
anthracite	**20EUCBUSB-81**	2TKA00001882	1
aluminium	**20EUCBUSB-83**	2TKA00001883	1
	**Residual current devices** 16A/250V IP21, with built-in A-type residual current device (RCD), tripping current 30mA. Approved for extending a branch circuit, but only regular sockets connected to protected outlet wires are protected. The socket outlet insert has shutters. The products are sold with cover plates. The socket outlet insert has shutters and screwless terminals.		
white	**3120EUC-84**	2TKA00003318	1/10
white	**3150UC-84.1**	2TKA00003319	1/10
anthracite	**3120EUC-81**	2CCF019499R0001	1/10
anthracite	**3150UC-81.1**	2CCF019500R0001	1/10
black matt	**3120EUC-885**	2CCF019489R0001	1/10
black matt	**3150UC-885.1**	2CCF019490R0001	1/10
	**2-gang Schuko socket outlet, Flush mounting, IP44** Product includes Schuko socket outlet insert, center plate with lid, cover frame and seal. The socket outlet insert has shutters and screwless terminals. The terminals are for max 2 rigid wires. Flush mounting on rough surface IP44. Branching terminals.		
white	**302EUJW-84**	2TKA000954G1	1/10
	**1-gang Schuko socket outlet, flush mounting, IP44** Product includes Schuko socket outlet insert, center plate with lid, cover frame and seal. The socket outlet insert has shutters and screwless terminals. The terminals are for max 2 rigid wires. Flush mounting on rough surface IP44.		
white	**20EUJW-84**	2TKA000698G1	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**Seal 85mm for 1-gang socket outlet, IP44** 1-gang socket outlets installed with a seal and a center plate with a hinged lid are IP44. Socket outlet without hinged lid on a rough surface is IP21.		
	2463	2TKA000002G1	20/200
	**Seal 100mm for 2-gang socket outlet, IP44** 2-gang socket outlets installed with a seal and a center plate with a hinged lid are IP44. Socket outlet without hinged lid on a rough surface is IP21.		
	2464	2TKA000003G1	20/200
	**SCHUKO® USB socket outlet, 2gang [1] [2] [3] [4] shuttered** For connecting electric loads. DP (2 P + E) With screwless terminals. For supply and support of mobile devices via USB-cable. With two USB type A outputs. Simultaneous charging via USB connection and use of the SCHUKO® socket outlet. Support of loading protocol on the USB-A connection: Apple MFI with 2.4 A and BC 1.2 with 1.5 A. With electronic short-circuit protection. With electronic overload protection. Rated voltage: 230 V~, +10 % / --10 % Secondary: 5 V-, +5 % / -5 % Rated frequency: 50 Hz - 60 Hz Outputs: 2x USB charging interface Suitable for: SCHUKO® socket outlet Rated current: 16 A Suitable for: In case one output is used: Rated current: 2.4 A Output voltage: 5 V- Suitable for: In case two output are used: Rated current: 1.2 A Output voltage: 5 V- Rated power: 12 W Protection class (Device): IP 20, SELV Temperature range (Device): 5 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 58 mm Mounting depth: 39.5 mm		
anthracite	**20 EUCB2USB-81-500**	2CKA002011A6268	1/10
ivory white	**20 EUCB2USB-82-500**	2CKA002011A6270	1/10
aluminium silver [5]	**20 EUCB2USB-83-500**	2CKA002011A6272	1/10
studio white	**20 EUCB2USB-84-500**	2CKA002011A6274	1/10
studio white matt [5]	**20 EUCB2USB-884-500**	2CKA002011A6278	1/10
black matt [5]	**20 EUCB2USB-885-500**	2CKA002011A6280	1/10

[1] Increased shock protection .
[2] Connecting terminals approved in accordance with VDE 0620-1 as connectors.
[3] No data transfer.
[4] When cleaning the device, use dust cover 2098 for the USB-A connection.
[5] Surface painted.

Impressivo

Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**RJ45 outlet with sliding dust covers for Impressivo** Insert for 2 x RJ45 connectors and center plate with dust covers. The connectors CEL30.UX are not compatible with this device, due to its integrated blind covers.		
	Modular		
	Supporting frame insert for 2xRJ45, Keystone **1819.01**	2TKA000599G1	10/100
	Supporting frame insert for 2xRJ45, AMP **1819.02**	2TKA000600G1	10/100
	Supporting frame insert for 2xRJ45, Actassi **1819.03**	2TKA000601G1	10/100
	Supporting frame insert for 2xRJ45, Systimax **1819.04**	2TKA000602G1	10/100
white	Center plate, 2 x RJ45, dust covers **1819DC-84**	2TKA00001111	1/10
anthracite	Center plate, 2 x RJ45, dust covers **1819DC-81**	2TKA00001109	1/10
aluminium	Center plate, 2 x RJ45, dust covers **1819DC-83**	2TKA00001110	1/10
	**RJ45 outlet with sliding dust covers for design-series** Insert for 2 x RJ45 connectors and center plate with dust covers. The connectors CEL30.UX are not compatible with this device, due to its integrated blind covers.		
	Modular		
green	Supporting frame insert for 2xRJ45, Systimax **1810.1**	2TKA000595G1	10/100
red	Supporting frame insert for 2xRJ45, Keystone **1812.1**	2TKA000596G1	10/100
black	Supporting frame insert for 2xRJ45, AMP **1814.1**	2TKA000597G1	10/100
	**RJ45 outlet including connectors** RJ45 outlet including 2 x Cat6 UTP RJ45 connectors manufactured by 3M and blind cover plates. The dust covers are integrated in the connector. Blind covers included.		
white	**FOT6208-84**	2TKA00000463	1/10
anthracite	**FOT6208-81**	2TKA00000461	1/10
aluminium	**FOT6208-83**	2TKA00000462	1/10
	**RJ45 connectors** Unshielded (UTP) RJ45 connectors with Keystone fixing and A/B coupling. No special connecting tool is needed. Use with RJ45 insert 1819.01 and center plate 1819-xx. The dust covers are integrated into the connectors. The connector is manufactured by 3M.		
white	**CEL30.U6**	2TKA001891G1	10/100

Product	Article-No.	Order-No.	Pack/Qty
	**DKS insert and center plate** DKS-center plate is used to fix many different kind of tele connectors into the mounting box. To be fitted with a suitable DKS adapter 18XXEB.XXX. The product includes center plate and assembly ring.		
white	**1758-84**	2TKA000487G1	1/10
anthracite	**1758-81**	2TKA000485G1	1/10
aluminium	**1758-83**	2TKA000486G1	1/10
	**DKS-adapters** Different adapters for DKS-system. Suitable for DKS-center plate 1758-xx.		
	RJ45		
	Adapter for DKS-system, 2 x RJ45, Keystone **1867EB**	2TKA000618G1	10/100
	Adapter for DKS-system, 2 x RJ45, AMP **1875EB**	2TKA000624G1	10/100
	Adapter for DKS-system, 2 x RJ45, Systimax **1872EB**	2TKA000622G1	10/100
	Fiber		
	Adapter for DKS-system, fiber 2 x Simplex ST **1870EB**	2TKA000621G1	10/100
	Adapter for DKS-system, fiber 2 x SCD **1874EB**	2TKA000623G1	10/100
	Audio		
	Adapter for DKS-system, XLR audio connector type FP **1853EB**	2TKA000614G1	10/100
	Adapter for DKS-system, XLR audio connector type MP **1854EB**	2TKA000615G1	10/100
	Adapter for DKS-system, XLR D-type or Speakon audio connector **1876EB**	2TKA000626G1	10/100
	Others		
	Adapter for DKS-system, D-type 9-pin connector **1850EB**	2TKA000612G1	10/100
	Adapter for DKS-system, 2 x BNC/TNC, 9,8mm **1855EB**	2TKA000616G1	10/100
	Adapter for DKS-system, 2 x BNC/TNC, 12,9mm **1857EB**	2TKA000617G1	10/100
	Adapter for DKS-system, blank **1869EB**	2TKA000620G1	10/100
	**DKS-adapter with VGA connector** Suitable for DKS-center plate 1758-xx. VGA connector is included (15pin D-sub). Cable should be connected by soldering.		
	1850EB.VGA	2TKA000613G1	1/10

Impressivo

Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**DKS-adapter with Composite-/S-video connectors** Suitable for DKS-center plate 1758-xx. Composite (BNC) and S-video (Mini DIN) connectors are included. Composite video connectors internal coaxial cable should be terminated by BNC-type connector. S-video internal cable is standard twisted-pair cable with toolless connection.		
	1875EB.YCV	2TKA000625G1	1/10
	**DKS-adapter with Speakon connector** Suitable for DKS-center plate 1758-xx. Speakon 4-pin loudspeaker connector is included. Flat tab terminals.		
	1876EB.SPE	2TKA000627G1	1/10
	**Antenna center plate, TV/R/Sat** Center plate for common antenna outlet inserts. The terminal “Sat” is closed, but can be knocked out.		
white	**1743-84**	2TKA000465G1	1/10
anthracite	**1743-81**	2TKA000463G1	1/10
aluminium	**1743-83**	2TKA000464G1	1/10
	**USB power adapter insert, flush-mounted [1] [2] [3]** **With USB-A & USB-C interface** For supply and support of mobile devices via USB-cable. With USB type A and USB type C female connector. To support two devices at the same time. Supports automatic negotiating of optimum charging parameters for the shortest charging times. Support of loading protocol on the USB-A connection: Apple MFI with 2.4 A and BC 1.2 with 1.5 A. Support of the additional quick-charge protocols: USB-PD and quick-charge 3.0 & 4.0. With electronic short-circuit protection. With electronic overload protection. Rated voltage: 230 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 2x USB charging interface Suitable for: Only USB-A bus occupied: Rated current: 3000 mA Output voltage: 5 V- Suitable for: Only USB-C bus occupied: Rated power: 18 W Suitable for: USB-A and USB-C bus occupied. Total: Rated current: 3250 mA Output voltage: 5 V- Protection class (Device): IP 20, SELV Temperature range (Device): 0 °C to 35 °C Dimensions: (L x W x D): 71 mm x 71 mm x 43 mm Mounting depth: 32 mm		
	6475 U-500	2CKA006400A0399	1

[1] No claw. Screw-fixing via keyholes.
[2] No data transfer.
[3] When cleaning the device, use dust cover 2098 for the USB-A connection.

Product	Article-No.	Order-No.	Pack/Qty
	**Tele outlet USB** Tele outlet with USB A-type connector. Compatible up to USB 2.0 versions. Internal connections with screw type terminals.		
	Insert *		
	Tele outlet insert, with USB A-type connector **0261/13**	2TKA00001916	1
	Center plate, tele outlet		
white	**1766-84**	2TKA000498G1	1/10
anthracite	**1766-81**	2TKA000495G1	1/10
aluminium	**1766-83**	2TKA000496G1	1/10
* Delivery time 3 weeks.			
	**Tele outlet VGA** Tele outlet for VGA display with D-sub 15pin connector. Internal connections with screw type terminals.		
	Insert *		
	Tele outlet insert, with VGA 15pin D-sub connector **0261/23**	2TKA00001917	1
	Center plate, tele outlet		
white	**1766-84**	2TKA000498G1	1/10
anthracite	**1766-81**	2TKA000495G1	1/10
aluminium	**1766-83**	2TKA000496G1	1/10
* Delivery time 3 weeks.			
	**Tele outlet HDMI** Tele outlet for HDMI display with A-type connector. Internal connections with screw type terminals.		
	Insert *		
	Tele outlet insert, with HDMI A-type connector **0261/33**	2TKA00001918	1
	Center plate, tele outlet		
white	**1766-84**	2TKA000498G1	1/10
anthracite	**1766-81**	2TKA000495G1	1/10
aluminium	**1766-83**	2TKA000496G1	1/10
* Delivery time 3 weeks.			
	**Tele outlet BNC-F** Tele outlet for 1 or 2 BNC-F type connectors. Mounting hole for a connector is 12mm. The insert and the connectors are sold separately.		
	Insert and connector *		
	Tele outlet insert for 2 x BNC-F type connectors **0262/13**	2TKA00001919	1
	Connector, BNC-F type, d = 12mm **0262**	2TKA00001920	1
	Center plate, tele outlet		
white	**1766-84**	2TKA000498G1	1/10
anthracite	**1766-81**	2TKA000495G1	1/10
aluminium	**1766-83**	2TKA000496G1	1/10
* Delivery time 3 weeks.			

Impressivo

Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**Tele outlet RCA** Tele outlet for 1 or 2 RCA audio/video connectors. The insert and the connectors are sold separately.		
	Insert and connector *		
	Tele outlet insert for 2 x RCA connectors **0263/13**	2TKA00001921	1
white	Connector, RCA **0263/04**	2TKA00001922	1
black	Connector, RCA **0263/05**	2TKA00001923	1
red	Connector, RCA **0263/06**	2TKA00001924	1
yellow	Connector, RCA **0263/07**	2TKA00001925	1
	Center plate, tele outlet		
white	**1766-84**	2TKA000498G1	1/10
anthracite	**1766-81**	2TKA000495G1	1/10
aluminium	**1766-83**	2TKA000496G1	1/10

* Delivery time 3 weeks.

Product	Article-No.	Order-No.	Pack/Qty
	**Tele outlet for Mini Jack** Tele outlet for 1 or 2 Mini Jack connectors. The insert and the connectors are sold separately.		
	Insert and connector *		
	Tele outlet insert for 2 x Mini Jack connectors **0264/13**	2TKA00001926	1
	Connector, Mini Jack 3,5mm, stereo **0264**	2TKA00001927	1
	Center plate, tele outlet		
white	**1766-84**	2TKA000498G1	1/10
anthracite	**1766-81**	2TKA000495G1	1/10
aluminium	**1766-83**	2TKA000496G1	1/10

* Delivery time 3 weeks.

Product	Article-No.	Order-No.	Pack/Qty
	**Speaker outlet, stereo** There are plug in connectors for speaker wires and screw terminals for max 10mm² internal wires.		
	Modular		
	Tele outlet insert, speaker, stereo **0248.00**	2TKA000090G1	1/10
white	Center plate, tele outlet **1766-84**	2TKA000498G1	1/10
anthracite	Center plate, tele outlet **1766-81**	2TKA000495G1	1/10
aluminium	Center plate, tele outlet **1766-83**	2TKA000496G1	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**Speaker outlet, mono** There is one red and one black gold plated terminal screw for the speaker wires and screw terminals for max 10mm² internal wires.		
	Modular		
	Speaker insert, with terminal screws **1819.LSP**	2TKA000603G1	1/10
white	Center plate, 2 x RJ45, blind covers **1819-84**	2TKA000609G1	1/10
anthracite	Center plate, 2 x RJ45, blind covers **1819-81**	2TKA000605G1	1/10
aluminium	Center plate, 2 x RJ45, blind covers **1819-83**	2TKA000607G1	1/10
	**Center plates for Ø 22.5mm devices** Center plates with Ø 22.5mm openings, equipped with a groove to prevent rotation. Use with 22mm dieameter to fasten different devices.		
white	**2533-84**	2TKA000841G1	1/10
anthracite	**2533-81**	2TKA000839G1	1/10
aluminium	**2533-83**	2TKA000840G1	1/10
	**Equipotential outlet** 2-gang equipotential outlet. Screw terminals for 1 x 6mm² and 4 x 2,5mm² wires. The product includes insert and center plate.		
white	**2095UC-84**	2TKA000652G1	10/100
anthracite	**2095UC-81**	2TKA000650G1	10/100
aluminium	**2095UC-83**	2TKA000651G1	10/100
	**Equipotential plug** Suitable for potential equalization and to be used with equipotential outlets. For max. 6 mm² wires. The wire is connected by pressing with tool or by soldering.		
	0299.00032	2TKA000091G1	10/100

Impressivo

Multimedia

Product	Article-No.	Order-No.	Pack/Qty
	**DigitalRadio set** 2-gang combination digital radio and loudspeaker (flush mounted). The radio offers a stereo RDS tuner with 8 memory presets as well as programmable clock, alarm and snooze functions which are controlled with the switch rocker.		
white	**8220 UJ-84-101-500**	2CKA008200A0234	1/10
	**DigitalRadio** The radio offers a stereo RDS tuner with 8 memory presets as well as programmable clock, alarm and snooze functions. Output max. 2x2W. Frequency response: 100-10 000 Hz. Reception frequency 87,50-108,0 Mhz. IP20.		
	Insert		
	Digital Radio Insert, FM **8215U**	2TKA001586G1	1/10
	Busch-Radio BTconnect, DAB+ **8217 U-101-500**	2CKA008200A0279	–
	Center plate		
	8252-81-101-500	2CKA008200A0249	–
	8252-83-101-500	2CKA008200A0253	–
	8252-84-101-500	2CKA008200A0255	–
	8252-885-101-500	2CKA008200A0261	–
	**Loudspeaker** With flat plug connector. With broadband characteristics. Rated output: 2 W (RMS) Incl. speaker connection cable. Frequency response: 200 - 20,000 Hz Impedance: 4 Ohm. No claw. Screw-fixing via keyholes.		
	Insert		
	Loudspeaker insert **8223 U-500**	2CKA008200A0183	1/10
	Center plate		
white	**8253-84**	2TKA001597G1	1/10
anthracite	**8253-81**	2TKA001595G1	1/10
aluminium	**8253-83**	2TKA001596G1	1/10
	**iNetRadio** WLAN Internet radio with display for flush-mounted installation. For the reception of national and international radio stations via Internet. Radio station search possible via various genres. Integrated web-server for configuration and control. Remote operation with smartphone via browser surface. UPnP replay function. It is controlled via smartphone. For mono/stereo operation. 8 radio stations storable.		
	Set *		
	iNetRadio kit **8240-84-500**	2TKA00002109	1/10
	Center plate *		
	8252-81-101-500	2CKA008200A0249	–
	8252-83-101-500	2CKA008200A0253	–
	8252-84-101-500	2CKA008200A0255	–
	8252-885-101-500	2CKA008200A0261	–

* Delivery time to ask.

Thermostats

Product	Article-No.	Order-No.	Pack/Qty
	**Floor heating thermostat** Floor heating thermostat for room-specific temperature adjustment. 230 V~, 50 Hz, 15 A / 3450 W, IP 31. Sensor: 3 m NTC 15 kΩ / 25 °C. Operating temperature: -10…+30 °C. Switch: 2-pole. Screw terminals: max. 2x2.5 mm2. Temperature drop: fixed 5 °C. Adjustment range: +5…+ 45 °C. Hysteresis +/- 0,4 °C. Ball pressure temperature: 75 °C. Utilization category: 2 (home use). Type: 1C. Method of mounting: fixed.		
	Includes insert and center plate		
white	Floor heating thermostat, 16 A, with sensor **TF16-15-84**	2TKA00002923	1/10
	Sold in parts		
	Floor heating thermostat, 16 A, with sensor, Insert **TF16-15U**	2TKA00002848	1/10
white	Center plate, for thermostat **T-11-84**	2TKA00000274	1/10
anthracite	Center plate, for thermostat **T-11-81**	2TKA00000267	1/10
aluminium	Center plate, for thermostat **T-11-83**	2TKA00000273	1/10
	Thermostat with low insert (20 mm mounting depth) meeting the Ecodesign requirements. The thermostat is pre-programmed. Rated voltage 230 V AC ± 10% 50 Hz Output 1 no and connectors 1.5 mm² to 4 mm² Switching current 250 V AC / 16 (2) A, protection class II and protection class IP21. Operating temperature 0 ° C to 35 ° C and storage temperature -20 ° C to 70 ° C Clock Accuracy (at 20 ° C) <+/- 0.5 sec / min Power consumption (standby) <0.05 W Floor sensor NTC 10kΩ @ 25˚C and external control (EXT connector) 230V AC / 10µA (same phase).		
white	**TC16-20-84**	2TKA00004035	1/10
	TC16-20U	2TKA00004033	1/10
white	**6435-84**	2CKA006430A0306	1/10
aluminium	**6435-83**	2CKA006430A0305	1/10
black matt	**6435-885**	2CKA006430A0389	1/10

Impressivo
Signal

Product	Article-No.	Order-No.	Pack/Qty
	**Transformer** Small size transformer to be installed in normal mounting box. Short circuit protected. Voltage: 230 V ac / 15 V ac. Power / loading capacity: 2,2 VA / 150 mA.		
	Jussi, includes insert and center plate		
	Transformer **FLM1000**	2TKA002168G1	1/10
	Impressivo, center plate		
white	Center plate, blind **U-84**	2TKA003414G1	1/10
anthracite	Center plate, blind **U-81**	2TKA003412G1	1/10
aluminium	Center plate, blind **U-83**	2TKA003413G1	1/10
black matt	**U-885**	2TKA00004109	1/10
	**Control Units, 1- and 2-loop** Available as 1- or 2-loop. Each loop has a LED and a cancelling/disconnecting button. The LED flashes during alarm. When cancelled/disconnected the LED lits constantly. Possibility to connect closing and opening potential free contacts. Loop controls itself against short circuits and breaks. Function selectors "M" memory ON/OFF and "T" delay 150ms/2,5 sec. Potential free output. Good marking possibilities. Operating voltage: 15 - 28 V ac / 18 - 35 V dc. Current consumption, FEH1001 and FEH1101: 70 mA ac / 40 mA dc, FEH 1002: 110 mA ac / 60 mA dc.		
	Jussi, includes insert and center plate		
	Control Unit, 1-loop **FEH1001**	2TKA002107G1	1/10
	Control Unit, 2-loop **FEH1002**	2TKA002110G1	1/10
	Impressivo, center plate		
white	Center plate, 1-fold **1P-84**	2TKA000632G1	1/10
anthracite	Center plate, 1-fold **1P-81**	2TKA000630G1	1/10
aluminium	Center plate, 1-fold **1P-83**	2TKA000631G1	1/10
white	Center plate, 2-fold **2P-84**	2TKA000893G1	1/10
black matt	**1P-885**	2TKA00004110	1/10
anthracite	Center plate, 2-fold **2P-81**	2TKA000891G1	1/10
aluminium	Center plate, 2-fold **2P-83**	2TKA000892G1	1/10
black matt	**2P-885**	2TKA00004111	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**Alarm Unit, 1-loop** Operates as FEH1001, but has a bigger signal light, which flashes during alarm. When cancelled, it lits constantly. Cancelling/disconnection has its own input. When a push button/switch is connected to this terminal, the device could be cancelled/disconnected from a distance or from several points. Possibility to connect closing and opening potential free contacts. Loop controls itself against short circuits and breaks. Function selector "M" memory ON/OFF. Potential free output. Operating voltage: 15 - 28 V ac / 18 - 35 V dc. Current consumption 110 mA ac / 60 mA dc. Sound intensity/frequency: 78 dB / 2,3 kHz / 30cm.		
	Jussi, includes insert and center plate		
	Alarm Unit, 1-loop **FEH2001**	2TKA002112G1	1/10
	Impressivo, center plate		
white	Center plate, Signal light **V-84**	2TKA003461G1	1/10
anthracite	Center plate, Signal light **V-81**	2TKA003459G1	1/10
aluminium	Center plate, Signal light **V-83**	2TKA003460G1	1/10
black matt	**V-885**	2TKA00004112	1/10
	**Signal Push Button** Signal Push Button with LED. Adressed / non-adressed function. Good marking possibilities. Operating voltage 9,5 - 28 V ac / 9,5 - 35 V dc. Current consumption: 20 mA ac / 10 mA dc. Switching voltage / -current / -power: 30 V ac / 35 V dc / 100 mA ac/dc / 3 VA/W.		
	Jussi, includes insert and center plate		
	Signal Push Button, 1-fold **FAP2001**	2TKA002095G1	1/10
	Impressivo, center plate		
white	Center plate, 1-fold **1P-84**	2TKA000632G1	1/10
anthracite	Center plate, 1-fold **1P-81**	2TKA000630G1	1/10
aluminium	Center plate, 1-fold **1P-83**	2TKA000631G1	1/10
black matt	**1P-885**	2TKA00004110	1/10

IMPRESSIVO CENTER PLATES FOR JUSSI SIGNALLING PRODUCTS.
INCLUDES THE NEEDED PARTS TO MODIFY THE JUSSI SIGNALLING PRODUCT TO IMPRESSIVO.

Impressivo
Signal

Product	Article-No.	Order-No.	Pack/Qty
	**Signal Push Button with Cord** Signal Push Button with Cord corresponds technically to the Signal Push Button FAP2001. Length of the white Cord is 2,5 meters and the red Cord in 8 meters.		
	Jussi, includes insert and center plate		
	Signal Push Button with Cord **FAP3002**	2TKA002098G1	1/10
	FAP3002.PU	2TKA00003391	1/10
	Impressivo, center plate		
white	Center plate, 2-fold **2P-84**	2TKA000893G1	1/10
anthracite	Center plate, 2-fold **2P-81**	2TKA000891G1	1/10
aluminium	Center plate, 2-fold **2P-83**	2TKA000892G1	1/10
	**Signal Push Button with Stereo Plug Terminal** Signal Push Button with LED. Additional plug for 6.3 mm Jack connector (FAP9001). Adressed / non-adressed function. Good marking possibilities. Operating voltage: 9,5-28 Vac / 9,5-35 Vdc. Current consumption: 20 mA ac / 10 mA dc. Switching voltage / -current / -power: 30 Vac/35 Vdc / 100 mA ac/dc / 3 VA/W.		
	Jussi, includes insert and center plate		
	Signal Push Button with Stereo Plug Terminal **FAP3011**	2TKA002103G1	1/10
	Impressivo, center plate		
white	Center plate, Push button/telecom socket outlet **PT-84**	2TKA003208G1	1/10
anthracite	Center plate, Push button/telecom socket outlet **PT-81**	2TKA003206G1	1/10
aluminium	Center plate, Push button/telecom socket outlet **PT-83**	2TKA003207G1	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**Wire Push Button** Push Button with 6.3 mm Jack plug (stereo). Closing contact. Lenght 2m.		
	Wire Push Button with 6,3mm Jack Plug **FAP9001**	2TKA002105G1	1/10
	**Button / Buzzer** A device including a push button as well as a buzzer. The LED of the push button and the buzzer operates in parallel. The buzzer can be cancelled with the push button. In alarm position the LED flickers. When cancelled it lits constantly till the alarm goes off. Good marking possibilities on the push button and the name plate. Operating voltage 9,5 - 28 Vac / 9,5 - 35 Vdc. Current consumption: 45 mA ac / 35 mA dc. Load capacity of the switch: 42 Vac / 60 Vdc, 250 mA ac/dc, 6 VA / 4 W.		
	Jussi, includes insert and center plate		
	Button / Buzzer **FIP1011**	2TKA002144G1	1/10
	Impressivo, center plate		
white	Center plate, 1-fold **1P-84**	2TKA000632G1	1/10
anthracite	Center plate, 1-fold **1P-81**	2TKA000630G1	1/10
aluminium	Center plate, 1-fold **1P-83**	2TKA000631G1	1/10
black matt	**1P-885**	2TKA00004110	1/10

Impressivo
Signal

Product	Article-No.	Order-No.	Pack/Qty
	**Signal Lights** Device with LED signal light. Opal lense. Operating voltage of LED's: 9,5 - 28 V ac / 9,5 - 35 V dc. Current consumption: 60 mA ac / 30 mA dc.		
	Jussi, includes insert and center plate		
red	Signal Light **FIM1000**	2TKA002120G1	1/10
yellow	Signal Light **FIM1010**	2TKA002123G1	1/10
green	Signal Light **FIM1020**	2TKA002125G1	1/10
white	Signal Light **FIM1030**	2TKA002127G1	1/10
	Impressivo, center plate		
white	Center plate, Signal light **V-84**	2TKA003461G1	1/10
anthracite	Center plate, Signal light **V-81**	2TKA003459G1	1/10
aluminium	Center plate, Signal light **V-83**	2TKA003460G1	1/10
black matt	**V-885**	2TKA00004112	1/10
	**Buzzer** Two audio frequencies available. Volume adjustment possible. Operating voltage: 9,5 - 28 V ac / 9,5 - 35 V dc. Current consumption: 40 mA ac / 20 mA dc. Sound intensity / frequency: 70 dB / 250 Hz or 70 dB / 750 Hz (intensity measured at 30 cm distance). Full sound intensity when operating voltage at least 15V ac or 18V dc.		
	Jussi, includes insert and center plate		
	Buzzer **FIM1100**	2TKA002128G1	1/10
	Impressivo, center plate		
white	Center plate, blind **U-84**	2TKA003414G1	1/10
anthracite	Center plate, blind **U-81**	2TKA003412G1	1/10
aluminium	Center plate, blind **U-83**	2TKA003413G1	1/10
black matt	**U-885**	2TKA00004109	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**Alarm Unit** Alarm Unit with flashing LED light and interrupting sound. Operating voltage: 9,5 - 28 V ac / 9,5 - 35 V dc. current consumption: 60 mA ac / 30 mA dc. Sound intensity / frequency: 78 dB / 2,3 kHz (intensity measured at 30 cm distance). Sound disconnectable.		
	Jussi, includes insert and center plate		
yellow	Alarm Unit **FIM1210**	2TKA002135G1	1/10
red	Alarm Unit **FIM1200**	2TKA002131G1	1/10
	Impressivo, center plate		
white	Center plate, Signal light **V-84**	2TKA003461G1	1/10
anthracite	Center plate, Signal light **V-81**	2TKA003459G1	1/10
aluminium	Center plate, Signal light **V-83**	2TKA003460G1	1/10
black matt	**V-885**	2TKA00004112	1/10
	**Signal Panel** Could be used as an 3/6 points alarm receiving panel in calling and alarm systems. With 6 red LED's. Good marking possibilities. Operating voltage: 12 - 24 V ac/dc.		
	Jussi, includes insert and center plate		
	Signal Panel **FIM1300**	2TKA002136G1	1/10
	Impressivo, center plate		
white	Center plate, signal panel **6V-84**	2TKA001578G1	1/10
anthracite	Center plate, signal panel **6V-81**	2TKA001576G1	1/10
aluminium	Center plate, signal panel **6V-83**	2TKA001577G1	1/10
	**Disabled WC set, Impressivo** Impressivo disabled WC SET contains the following signalling products: 1 pc Transformer, 1 pc 1-loop Alarm Unit, 1 pc Signal Push Button with Draw Cord (calling) and 1 pc Signal Push Button (cancelling). All devices are equipped with Impressivo coverframes.		
	Impressivo Disabled WC, set **FJW1004-84**	2TKA00001119	1/10

IMPRESSIVO CENTER PLATES FOR JUSSI SIGNALLING PRODUCTS.
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Impressivo
Signalling Devices

Product	Article-No.	Order-No.	Pack/Qty
	**Jussi Leak Guard** The Leak Guard unit operates as the standard Control Unit FEH1001, with the exception that the loop monitors leakage current (10 µA). Tape sensors, conduit pairs or other leakage sensors could be connected to the device. Memory/no memory function. Potential free output. Cancelling button with LED. Operating voltage: 9,5 - 28 V ac / 9,5 - 35 V dc. Current consumption: 75 mA ac / 40 mA dc. Good marking possibilities on the button and name plate.		
	Jussi, includes insert and center plate		
	Leak Guard **FEH2100**	2TKA002115G1	1/10
	Impressivo, center plate		
white	Center plate, 1-fold **1P-84**	2TKA000632G1	1/10
anthracite	Center plate, 1-fold **1P-81**	2TKA000630G1	1/10
aluminium	Center plate, 1-fold **1P-83**	2TKA000631G1	1/10
black matt	**1P-885**	2TKA00004110	1/10
	**Mains Relay** With mains relay Jussi leak guard can control 230 V ac magnetic valves.. Controlled by low voltage potential free contact (e.g. switches, push buttons, potential free contacts or alarm panels). Separate transformer not needed. Loading capacity: 10 A / 230 V ac. Fluorescent light load max 300 VA.		
	Jussi, includes insert and center plate		
	Mains Relay **FIR1000**	2TKA002152G1	1/10
	Impressivo, center plate		
white	Center plate, blind **U-84**	2TKA003414G1	1/10
anthracite	Center plate, blind **U-81**	2TKA003412G1	1/10
aluminium	Center plate, blind **U-83**	2TKA003413G1	1/10
black matt	**U-885**	2TKA00004109	1/10
	**Tape Sensors** Self adhesive Leak Guard sensor. Wires connected to sensor by soldering.		
	Tape Sensor, lenght 2 m **FLA2100.02**	2TKA002164G1	1/10
	Tape sensor, lenght 50 m **FLA2100.50**	2TKA002166G1	1

Product	Article-No.	Order-No.	Pack/Qty
	**Impressivo, Door Panel** The Door Panel can be installed either surface or flush-mounted on top of a 1- or 2-gang mounting box. Compatible with Table Panel FIP2000-8x. Operating voltage: 15 - 28 V ac. Current consumption: 75 mA (max).		
white	Door Panel for office signal system **FIO2000-84**	2TKA002142G1	1/10
	**Impressivo Table Panel** The Table Panel can be used for controlling the signal lights of Door Panel FIO2000-xx. It also includes a freely adaptable Push Button and Switch, which can be integrated into an existing emergency or assistant call system using the Adapter Relay FIR2000. 2 meters connecting wire. Operating voltage: 15 - 28 V ac.		
white	Table Panel for office signal system **FIP2000-84**	2TKA002148G1	1/10
	**Table Panel Terminal** Table Panel is connected to a RJ12 terminal. The yellow light could be controlled automatically. FOR2000 could be used in both analog and digital telephone systems. FOT2000 is used in digital telephone systems or when the automatic control of the yellow light is not used.		
	Jussi, includes insert and center plate		
	Table Panel Terminal **FOT2000**	2TKA002177G1	1/10
	Impressivo, center plate		
white	Center plate, 2 x RJ45, dust covers **1819DC-84**	2TKA00001111	1/10
	**Adapter Relay** The Adapter Relay is used to integrate the Office Signal System with calling- or alarm systems. Operating voltage 15 - 28 V ac.		
	Jussi, includes insert and center plate		
	Adapter Relay **FIR2000**	2TKA002155G1	1/10
	Impressivo, center plate		
white	Center plate, blind **U-84**	2TKA003414G1	1/10
anthracite	Center plate, blind **U-81**	2TKA003412G1	1/10
aluminium	Center plate, blind **U-83**	2TKA003413G1	1/10
black matt	**U-885**	2TKA00004109	1/10

IMPRESSIVO CENTER PLATES FOR JUSSI SIGNALLING PRODUCTS.
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Impressivo

Signalling Devices

Product	Article-No.	Order-No.	Pack/Qty
	**Signal light inserts** LED signal light inserts for 230V supply. Center plates V-81, V-83 and V-84 fit to the inserts. There are screw terminals for max 2,5mm² wires. Not extendable.		
	Modular		
	Signal light insert, Led 230V/25mA		
white	**2661.09**	2TKA000875G1	1/10
	Signal light insert, Led 230V/25mA		
red	**2661.02**	2TKA000874G1	1/10
	Center plate, Signal light		
white	**V-84**	2TKA003461G1	1/10
	Center plate, Signal light		
anthracite	**V-81**	2TKA003459G1	1/10
	Center plate, Signal light		
aluminium	**V-83**	2TKA003460G1	1/10
black matt	**V-885**	2TKA00004112	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**Claws** Claws for 1-gang socket outlets, Euro socket outlets, switches and push switches. Not suitable for 2-gang Impressivo socket outlet inserts. Inserts with claws are also available.		
	Claws for socket outlets and swithces		
	ASE1	2TKA001721G1	10/100
	**Screw-mounted rocker frames, IP44** Screw-mounted rocker frame is used with the seals 2463 or 2464 to reach IP44 protection class on switches and push switches. Furthermore, it can be used to connect the switch frame to the insert with screws for improved security.		
	Modular		
	Supporting frame for 1/3-gang rocker, screw fastening		
	2474	2TKA000004G1	20/200
	Supporting frame for 2-gang rocker, screw fastening		
	2475	2TKA000005G1	20/200
	**Seal 85mm for 1-gang socket outlet, IP44** 1-gang socket outlet inserts installed with the seal and a center plate with hinged lid are IP44. Switches and push buttons installed with the seal and with the screwmounted rocker frames are IP44.		
	2463	2TKA000002G1	20/200
	**Seal 100mm for 2-gang socket outlet, IP44** 2-gang socket outlet inserts installed with the seal and a center plate with hinged lids are IP44. Switches, push buttons and 1-gang socket outlets with a hinged lid are also IP44, when using the seal with adaptor 2519-xx. Screw mounted rocker frame must be used to reach IP44 protection class.		
	2464	2TKA000003G1	20/200
	Blind center plate, 85mm 85mm blind center plate can be used to cover an empty box. It can be used together with 85mm flush- and surface mounting frames. Flush mounting: On a smooth surface IP21, on a rough surface IP20 (seal can't be used). When installed on surface with 2456.26 and 172xS85-xx, protection class is IP44.		
white	**2538-84**	2TKA000856G1	1/10
anthracite	**2538-81**	2TKA000852G1	1/10
aluminium	**2538-83**	2TKA000854G1	1/10
	**Blind center plate, 100mm** 100mm blind center plate can be used to cover an empty box. Can be used together with 100mm flush- and surface mounting frames. Flush mounting: On a smooth surface IP21, on a rough surface IP20 (seal can't be used). When istalled on surface the protection class is IP44 if wires are installed downwards.		
white	**2538-100-84**	2TKA000848G1	1/10
anthracite	**2538-100-81**	2TKA000846G1	1/10
aluminium	**2538-100-83**	2TKA000847G1	1/10

IMPRESSIVO CENTER PLATES FOR JUSSI SIGNALLING PRODUCTS.
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Impressivo
LED lights

Product	Article-No.	Order-No.	Pack/Qty
	**Flush mounting cover frames 85mm, IP21/IP44 1-gang** Flush mounting cover frames for 1-gang devices. Suitable for both horizontal and vertical installation. Standard installation is IP21 on smooth surface. When using seal 2463 installation is IP21 on rough surface. Final IP class of installation is defined by the used center plate (IP21/IP44).		
white	**1721F85-84**	2TKA000287G1	1/10
anthracite	**1721F85-81**	2TKA000283G1	1/10
aluminium	**1721F85-83**	2TKA000285G1	1/10
	**Flush mounting cover frames 85mm, IP21/IP44 2-gang**		
white	**1722F85-84**	2TKA000337G1	1/5
anthracite	**1722F85-81**	2TKA000333G1	1/5
aluminium	**1722F85-83**	2TKA000335G1	1/5
	**Flush mounting cover frames 85mm, IP21/IP44 3-gang**		
white	**1723F85-84**	2TKA000376G1	1/5
anthracite	**1723F85-81**	2TKA000372G1	1/5
aluminium	**1723F85-83**	2TKA000374G1	1/5
	**Flush mounting cover frames 85mm, IP21/IP44 4-gang**		
white	**1724F85-84**	2TKA000409G1	1/5
anthracite	**1724F85-81**	2TKA000407G1	1/5
aluminium	**1724F85-83**	2TKA000408G1	1/5
	**Flush mounting cover frames 85mm, IP21/IP44 5-gang**		
white	**1725F85-84**	2TKA000434G1	1/5
anthracite	**1725F85-81**	2TKA000432G1	1/5
aluminium	**1725F85-83**	2TKA000433G1	1/5

Product	Article-No.	Order-No.	Pack/Qty
	**Flush mounting cover frames 100mm, IP21/IP44 1-gang** Flush mounting cover frames for 2-gang devices, such as double socket outlets. Also 1-gang devices, such as switches, can be installed using adapter 2519-xx. Suitable for both horizontal and vertical installation. Standard installation is IP21 on smooth surface. When using seal 2463 installation is IP21 on rough surface. Final IP class of installation is defined by the used center plate (IP21/IP44).		
white	**1721F100-84**	2TKA000279G1	1/10
anthracite	**1721F100-81**	2TKA000275G1	1/10
aluminium	**1721F100-83**	2TKA000277G1	1/10
	**Flush mounting cover frames 85mm, IP21/IP44 2-gang**		
white	**1722F100-84**	2TKA000329G1	1/5
anthracite	**1722F100-81**	2TKA000325G1	1/5
aluminium	**1722F100-83**	2TKA000327G1	1/5
	**Flush mounting cover frames 85mm, IP21/IP44 3-gang**		
white	**1723F100-84**	2TKA000369G1	1/5
anthracite	**1723F100-81**	2TKA000365G1	1/5
aluminium	**1723F100-83**	2TKA000367G1	1/5
	**Flush mounting cover frames 85mm, IP21/IP44 4-gang**		
white	**1724F100-84**	2TKA000405G1	1/5
anthracite	**1724F100-81**	2TKA000403G1	1/5
aluminium	**1724F100-83**	2TKA000404G1	1/5
	**Flush mounting cover frames 85mm, IP21/IP44 5-gang**		
white	**1725F100-84**	2TKA000430G1	1/5
anthracite	**1725F100-81**	2TKA000428G1	1/5
aluminium	**1725F100-83**	2TKA000429G1	1/5

Impressivo
Accessories

Product	Article-No.	Order-No.	Pack/Qty
	**1-gang switches** Switch with screwless terminals and lamp possibility. Rocker with clip-on fastening. IP21 when wires are installed downwards. 16AX/250V, 2 X-terminals		
	1-gang 2-way switch		
white	**1066A-84**	2TKA00001601	1/10
anthracite	**1066A-81**	2TKA00001602	1/10
aluminium	**1066A-83**	2TKA00001603	1/10
	1-gang intermediate switch		
white	**1067A-84**	2TKA00001846	1/10
anthracite	**1067A-81**	2TKA00001847	1/10
aluminium	**1067A-83**	2TKA00001848	1/10
	**2-gang switches** Switch with screwless terminals, no lamp possibility. Rocker with clip-on fastening. IP21 when wires are installed downwards. 16AX/250V, 2 X-terminals		
	2-gang 1-way switch		
white	**1065A-84**	2TKA00001598	1/10
anthracite	**1065A-81**	2TKA00001599	1/10
aluminium	**1065A-83**	2TKA00001600	1/10
	2-gang 2-way switch		
white	**10666A-84**	2TKA00001843	1/10
anthracite	**10666A-81**	2TKA00001844	1/10
aluminium	**10666A-83**	2TKA00001845	1/10
	**3-gang switch** Switch with screwless terminals, no lamp possibility. Rocker with clip-on fastening. IP21 when wires are installed downwards. 16AX/250V, 2 X-terminals		
white	**10631A-84**	2TKA00001849	1/10
anthracite	**10631A-81**	2TKA00001850	1/10
aluminium	**10631A-83**	2TKA00001851	1/10
	**2-pole switch** Switch with screwless terminals and lamp possibility. Rocker with clip-on fastening. IP21 when wires are installed downwards. 16AX/250V, 2 X-terminals		
white	**1062A-84**	2TKA00001840	1/10
	**1-gang push switch** Push switch with screwless terminals and lamp possibility. Rocker with clip-on fastening. Delivered with clear lens. IP21 when the wires are installed downwards. 10A/250V, 2 X-terminals		
white	**1461A-84**	2TKA00001604	1/10
anthracite	**1461A-81**	2TKA00001605	1/10
aluminium	**1461A-83**	2TKA00001606	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**4-gang Schuko socket outlet, IP21** The device is based on two 2-gang socket outlet inserts, which are internally connected. The socket outlet inserts have shutters. There are screwless terminals for each contact of the socket outlet insert for max 4 rigid wires. No X-terminals. IP21 when the wires are installed downwards.		
white	**404EA-84**	2TKA00001613	1/20
anthracite	**404EA-81**	2TKA00001614	1/20
aluminium	**404EA-83**	2TKA00001615	1/20
	**2-gang Schuko socket outlet, IP21** Screwless terminals for each contact of the socket outlet for max 4 rigid wires. No X-terminals. The socket outlet insert has shutters. IP21 when the wires are installed downwards.		
white	**402EA-84**	2TKA00001607	1/10
anthracite	**402EA-81**	2TKA00001608	1/10
aluminium	**402EA-83**	2TKA00001609	1/10
	**2-gang Schuko socket outlet, surface mounting, IP44** Product includes Schuko socket outlet insert, center plate with lid, surface mountig cover frame and box. The socket outlet insert has shutters and screwless terminals, branching terminals.		
anthracite	**302ESW-81**	2TKA00001754	1/10
	**2-gang Schuko outlets with special colour, IP21** Screwless terminals for each contact of the socket outlet for max 4 rigid wires. No X-terminals. The socket outlet insert has shutters. IP21 when the wires are installed downwards. These socket outlets can be used, for instance, in hospitals and offices, when there is a need to limit socket outlet use to certain applications.		
red	**402EA-02**	2TKA00002966	1/10
orange	**402EA-03**	2TKA00002967	1/10
green	**402EA-05**	2TKA00002968	1/10
blue	**402EA-06**	2TKA00002969	1/10
	**2-gang Schuko socket outlet, lath installation, IP21** Schuko 2-gang socket outlet for lath installation. There are screwless terminals for each contact of the socket outlet for max 4 rigid wires. No X-terminals. The socket outlet insert has shutters.		
white	**402EL-84**	2TKA00002273	1/10
anthracite	**402EL-81**	2TKA00002274	1/10
aluminium	**402EL-83**	2TKA00002275	1/10
	**2-gang Schuko socket outlet, corner installation, IP21** Schuko 2-gang socket outlet for corner installation. There are screwless terminals for each contact of the socket outlet for max 4 rigid wires. No X-terminals. The socket outlet insert has shutters.		
white	**402EE-84**	2TKA00001610	1/20
anthracite	**402EE-81**	2TKA00001611	1/20
aluminium	**402EE-83**	2TKA00001612	1/20

Impressivo
Frames

Product	Article-No.	Order-No.	Pack/Qty
	**Surface mounting box 85mm, IP21** Surface mounting box for 1-gang devices such as antenna and data outlet and others, insert height max. 26 mm. Large devices such as dimmers doesn't fit in the box. Delivery includes bottom plate and cover. h=41mm		
white	**1721A-84**	2TKA00001616	1/10
anthracite	**1721A-81**	2TKA00001617	1/10
aluminium	**1721A-83**	2TKA00001618	1/10
	**Lath installation box 85mm, IP21** Lath installation box for 1-gang devices such as antenna and data outlet and others, insert height max. 26 mm. Large devices such as dimmers doesn't fit in the box. Delivery includes bottom plate and cover.		
white	**1721L-84**	2TKA00002276	1/10
anthracite	**1721L-81**	2TKA00002277	1/10
aluminium	**1721L-83**	2TKA00002278	1/10
	**Corner installation box 85mm, IP21** Surface mounting box for 2 devices, also for electronic devices. Horizontal or vertical installation in corners. Use with 85mm 2-gang cover frame.		
white	**1722H-84**	2TKA00002279	1/20
anthracite	**1722H-81**	2TKA00002280	1/20
aluminium	**1722H-83**	2TKA00002281	1/20
	**Surface mounting bottom plate, IP21/IP44** Surface mounting bottom plate for flush mounted products, insert height max. 26mm. To be combined with 85mm and 100mm surface mounting cover frames 172xS85-xx and 172xS100-xx. Socket outlets are IP44 when using center plates with hinged lid. Switches and push switches are IP44 when combined with screw fastening rocker. Wires must be installed downwards for IP44 protection class. Dimmers do not fit in the box.		
	2456.26	2TKA000769G1	10/100
	**DCL lamp outlet for mounting boxes** The DCL outlet can be installed on standard wall mounting boxes (screw distance c/c 60 mm). It is safe and easy to use for the end consumer, as they can snap-in the DCL plug in the socket. The outlet is typically installed on wall but can also be installed in ceiling. 85x85mm		
white	**AKK6-84**	2TKA00000934	10/100
anthracite	**AKK6-81**	2TKA00000936	10/100
aluminium	**AKK6-83**	2TKA00000935	10/100

Product	Article-No.	Order-No.	Pack/Qty
	**High surface mounting boxes 80mm, IP20** Surface mounting boxes for high 1-gang devices, such as dimmers, insert height max. 40 mm. Suitable for both horizontal and vertical installation. Delivery includes box and cover frame. h=54mm		
	1-gang		
white	**1721S80-84**	2TKA00000993	1/10
anthracite	**1721S80-81**	2TKA00000991	1/10
aluminium	**1721S80-83**	2TKA00000992	1/10
	2-gang		
white	**1722S80-84**	2TKA00000996	1/5
anthracite	**1722S80-81**	2TKA00000994	1/5
aluminium	**1722S80-83**	2TKA00000995	1/5
	3-gang		
white	**1723S80-84**	2TKA00000999	1/10
anthracite	**1723S80-81**	2TKA00000997	1/10
aluminium	**1723S80-83**	2TKA00000998	1/10

Impressivo – surface mounting

Switches and push switches IP21

Product	Article-No.	Order-No.	Pack/Qty
	**Surface mounting cover frames 85mm, IP21/IP44 1-gang** Surface mounting cover frames for 1-gang devices, such as switches and socket outlets. Suitable for both horizontal and vertical installation. To be used with surface mounting box 2456.26. Dimmers do not fit in the frame. Wires must be installed downwards for IP44 protection class. Final IP class of installation is defined by the used center plate (IP21/IP44). h=40mm		
white	**1721S85-84**	2TKA000302G1	1/50
anthracite	**1721S85-81**	2TKA000298G1	1/50
aluminium	**1721S85-83**	2TKA000300G1	1/50
	**Surface mounting cover frames 85mm, IP21/IP44 2-gang**		
white	**1722S85-84**	2TKA000347G1	1/25
anthracite	**1722S85-81**	2TKA000344G1	1/25
aluminium	**1722S85-83**	2TKA000345G1	1/25
	**Surface mounting cover frames 85mm, IP21/IP44 3-gang**		
white	**1723S85-84**	2TKA000385G1	1/25
anthracite	**1723S85-81**	2TKA000383G1	1/25
aluminium	**1723S85-83**	2TKA000384G1	1/25
	**Surface mounting cover frames 85mm, IP21/IP44 4-gang**		
white	**1724S85-84**	2TKA000417G1	1/25
anthracite	**1724S85-81**	2TKA000415G1	1/25
aluminium	**1724S85-83**	2TKA000416G1	1/25

Socket outlets IP21

Product	Article-No.	Order-No.	Pack/Qty
	**Surface mounting cover frames 100mm, IP21/IP44 1-gang** Surface mounting cover frames for 2-gang devices, such as double socket outlets. Also 1-gang devices can be installed using the adaptor 2519-xx. Suitable for both horizontal and vertical installation. To be used with surface mounting box 2456.26. Wires must be installed downwards for IP44 protection class. Final IP class of installation is defined by the used center plate (IP21/IP44). h=40mm		
white	**1721S100-84**	2TKA000295G1	1/50
anthracite	**1721S100-81**	2TKA000291G1	1/50
aluminium	**1721S100-83**	2TKA000293G1	1/50
	**Surface mounting cover frames 100mm, IP21/IP44 2-gang**		
white	**1722S100-84**	2TKA000342G1	1/25
anthracite	**1722S100-81**	2TKA000340G1	1/25
aluminium	**1722S100-83**	2TKA000341G1	1/25
	**Surface mounting cover frames 100mm, IP21/IP44 3-gang**		
white	**1723S100-84**	2TKA000381G1	1/25
anthracite	**1723S100-81**	2TKA000379G1	1/25
aluminium	**1723S100-83**	2TKA000380G1	1/25
	**Surface mounting cover frames 100mm, IP21/IP44 4-gang**		
white	**1724S100-84**	2TKA000413G1	1/20
anthracite	**1724S100-81**	2TKA000411G1	1/20
aluminium	**1724S100-83**	2TKA000412G1	1/20

Impressivo – surface mounting

Boxes and accessories

Product	Article-No.	Order-No.	Pack/Qty
	**Bus Coupler** For connecting operating elements such as a push buttons (1-, 2-, 4-fold), motion detectors, room thermostats etc. to the ABB i-bus® KNX system.		
	6120/12-101-500	2TKA00000219	1/10
	**Switch sensor, 1/2-gang** Flush mounted multifunction push button for ABB i-bus KNX 6120/12-101-500. With labelling field, transparent labelling sheet with standard symbols included in delivery. Support of KNX functions through innovative colour concept yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. Cover plate not included.		
white	**6125/02-84-500**	2TKA00000271	1/10
anthracite	**6125/02-81-500**	2TKA00000266	1/10
aluminium	**6125/02-83-500**	2TKA00000269	1/10
	**Switch sensor, 2/4-gang** Flush mounted multifunction push button for ABB i-bus KNX 6120/12-101-500. With labelling field, transparent labelling sheet with standard symbols included in delivery. Support of KNX functions through innovative colour concept yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. Cover plate not included.		
white	**6126/02-84-500**	2TKA00000311	1/10
anthracite	**6126/02-81-500**	2TKA00000297	1/10
aluminium	**6126/02-83-500**	2TKA00000239	1/10
	**Switch sensor, 4/8-gang** Flush mounted multifunction push button for ABB i-bus KNX 6120/12-101-500. With labelling field, transparent labelling sheet with standard symbols included in delivery. Support of KNX functions through innovative colour concept yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. Cover plate not included.		
white	**6127/02-84-500**	2TKA00000327	1/10
anthracite	**6127/02-81-500**	2TKA00000323	1/10
aluminium	**6127/02-83-500**	2TKA00000325	1/10
	**Switch sensor, 3/6-gang with IR-receiver** Flush mounted multifunction push button with IR-receiver for ABB i-bus KNX 6120/12-101-500. With labelling field, transparent labelling sheet with standard symbols included in delivery. Support of KNX functions through innovative colour concept yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. Cover plate not included. Controlling with the IR remote control 6010-25.		
white	**6129/01-84-500**	2TKA00000246	1/10
anthracite	**6129/01-81-500**	2TKA00000242	1/10
aluminium	**6129/01-83-500**	2TKA00000244	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**IR remote control** Infrared hand-held transmitter. Network-independent remote control for infrared receiver and KNX flushmounted infrared interface (10 consumers switchable in 2 groups, 1 – 5/6 – 10, programming and selection of 2 MEMO memories per address group). Supply: 4 alkaline manganese batteries, IEC LR03 (not included in scope of supply) Range: frontal, approx. 15 m.		
	6010-25	2TKA001017G1	1
	**Control element, 2/4gang, with RTC multi-function/colour concept** For ABB i-bus® KNX bus coupler 6120/12-101-500, 6120/13-500. Support of KNX functions through innovative colour concept (yellow = lighting, blue = blind, orange = RTC, magenta = scene and white = neutral/no function assigned) or standard illumination red/green. Rocker switch left/right (switching/dimming/blind/ value sender/light scenes/fan function). Master/slave configuration. With base-load operation. The controller is a constant room temperature controller for ventilator convectors (fan coils) in 2-pipe and 4-pipe systems and conventional heating or cooling systems. The fan stage can be switched manually or in auto- matic mode. Transparent labelling sheet with standard symbols included in delivery. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). Control element: Switch contacts left/right, also for selecting setpoint and mode of operation. Display elements: LCD showing operation mode and temperature. Protection class (Device): IP20. Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 63 mm x 63 mm.		
grey metallic	**6128/28-803-500**	2TKA00003208	1/10
white	**6128/28-84-500**	2TKA00003206	1/10
anthracite	**6128/28-81-500**	2TKA00003204	1/10
aluminium	**6128/28-83-500**	2TKA00003205	1/10
	**Movement detector, with manual operation** Flush mounted sensor with Comfort II multi-lens. For ABB i-bus KNX 6120/12-101-500. Movement detector with up to 4 channels. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.) Cover plate not included.		
white	**6122/02-84-500**	2TKA00000233	1/10
anthracite	**6122/02-81-500**	2TKA00000229	1/10
aluminium	**6122/02-83-500**	2TKA00000231	1/10

Impressivo – surface mounting

Cover frames

Product	Article-No.	Order-No.	Pack/Qty
	**1-, 2- and 4-gang switch sensors with bus coupler** 1-, 2- and 4-gang standard switch sensor that includes bus coupler. LED for displaying the output. 2 LEDs on each button. Cover plate not included.		
	1-gang pushbuttons		
white	**6125/01-84-500**	2TKA00000262	1/10
anthracite	**6125/01-81-500**	2TKA00000257	1/10
aluminium	**6125/01-83-500**	2TKA00000260	1/10
	2-gang pushbuttons		
white	**6126/01-84-500**	2TKA00000293	1/10
anthracite	**6126/01-81-500**	2TKA00000284	1/10
aluminium	**6126/01-83-500**	2TKA00000288	1/10
	4-gang pushbuttons		
white	**6127/01-84-500**	2TKA00000319	1/10
anthracite	**6127/01-81-500**	2TKA00000315	1/10
aluminium	**6127/01-83-500**	2TKA00000317	1/10
	**Busch-Watchdog ® 180 Sensor Standard, Select with integrated bus coupler, FM** Movement detector with up to 4 channels. The bus can be connected via enclosed terminal block. With integrated KNX bus coupler.		
white	**6122/10-84-500**	2TKA00003199	1/10
anthracite	**6122/10-81-500**	2TKA00003197	1/10
aluminium	**6122/10-83-500**	2TKA00003198	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**Push-button coupling 2gang with integrated bus coupler** Support of KNX functions through innovative color concept yellow = lighting, blue = blind, orange = RTC, magenta = scene and white = neutral/no function assigned) or standard illumination red/green. With middle position. The bus can be connected via enclosed terminal block.		
	Push-button coupling 2gang		
	6108/06-500	2TKA00003193	1/10
	Rocker 1gang		
white	**SR-1-84**	2TKA00002776	1/10
anthracite	**SR-1-81**	2TKA00002774	1/10
aluminium	**SR-1-83**	2TKA00002775	1/10
	**Push-button coupling 4gang with integrated bus coupler** Support of KNX functions through innovative color concept yellow = lighting, blue = blind, orange = RTC, magenta = scene and white = neutral/no function assigned) or standard illumination red/green. With middle position. The bus can be connected via enclosed terminal block.		
	Push-button coupling 4gang		
	6108/07-500	2TKA00003194	1/10
	Rocker 2gang left/right		
white	**SR-2-84**	2TKA00002779	1/10
anthracite	**SR-2-81**	2TKA00002777	1/10
aluminium	**SR-2-83**	2TKA00002778	1/10

Impressivo

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Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat, heating/cooling operation** Control element with room thermostat function for triggering the heating, ventilation and fancoil actuators. For controlling commercially available valve drives. With display of set-value temperature. Master/ slave configuration. With base-load operation. The bus can be connected via enclosed terminal block.		
	Room thermostat **6108/18-500**	2TKA00003196	1/10
	Thermostat center plate		
white	**CP-RTC-84**	2TKA00002784	1/10
anthracite	**CP-RTC-81**	2TKA00002782	1/10
aluminium	**CP-RTC-83**	2TKA00002783	1/10
	**Room Temperature Controller, Commercial, FM** Room thermostat without „local operation“ incl. insert for centre plate for cooling element. For controlling commercially available valve drives. Can only be used with a cover plate 2114-xxx or 6541-xxx, with the exception of 6541-20. -21.-260 and -266. For control of up to 5-level ventilation actuators Master/slave configuration. With base-load operation. The bus can be connected via enclosed terminal block.		
	Flush-mounted room thermostat **6108/08-500**	2TKA00003007	1/10
	Center plate with cooling element		
white	**6541-84**	2TKA001459G1	1/10
anthracite	**6541-81**	2TKA001457G1	1/10
aluminium	**6541-83**	2TKA001458G1	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog ® 180 Sensor Standard, Select with integrated bus coupler, FM** Movement detector with up to 4 channels. The bus can be connected via enclosed terminal block. With integrated KNX bus coupler.		
white	**6122/10-84-500**	2TKA00003199	1/10
anthracite	**6122/10-81-500**	2TKA00003197	1/10
aluminium	**6122/10-83-500**	2TKA00003198	1/10
	**Push-button coupling 2gang with integrated bus coupler** Support of KNX functions through innovative color concept yellow = lighting, blue = blind, orange = RTC, magenta = scene and white = neutral/no function assigned) or standard illumination red/green. With middle position. The bus can be connected via enclosed terminal block.		
	Push-button coupling 2-gang **6108/06-500**	2TKA00003193	1/10
	Rocker 1-gang		
white	**SR-1-84**	2TKA00002776	1/10
anthracite	**SR-1-81**	2TKA00002774	1/10
aluminium	**SR-1-83**	2TKA00002775	1/10
	Rocker 1-gang "lighting" symbol		
white	**SRL-1-84**		1/10
anthracite	**SRL-1-81**		1/10
aluminium	**SRL-1-83**		1/10
	Rocker 1-gang "scene" symbol		
white	**SRS-1-84**		1/10
anthracite	**SRS-1-81**		1/10
aluminium	**SRS-1-83**		1/10
	Rocker 1-gang "dimming" symbol		
white	**SRD-1-84**		1/10
anthracite	**SRD-1-81**		1/10
aluminium	**SRD-1-83**		1/10
	Rocker 1-gang "blinds" symbol		
white	**SRB-1-84**		1/10
anthracite	**SRB-1-81**		1/10
aluminium	**SRB-1-83**		1/10

Impressivo

KNX

Product	Article-No.	Order-No.	Pack/Qty
	**Push-button coupling 4gang with integrated bus coupler** Support of KNX functions through innovative color concept yellow = lighting, blue = blind, orange = RTC, magenta = scene and white = neutral/no function assigned) or standard illumination red/green. With middle position. The bus can be connected via enclosed terminal block.		
	Push-button coupling 4-gang		
	6108/07-500	2TKA00003194	1/10
	Rocker 2-gang left/right		
white	**SR-2-84**	2TKA00002779	1/10
anthracite	**SR-2-81**	2TKA00002777	1/10
aluminium	**SR-2-83**	2TKA00002778	1/10
	Rocker 2-gang "lighting" symbol left		
white	**SRL-2-L-84**		1/10
anthracite	**SRL-2-L-81**		1/10
aluminium	**SRL-2-L-83**		1/10
	Rocker 2-gang "scene" symbol left		
white	**SRS-2-L-84**		1/10
anthracite	**SRS-2-L-81**		1/10
aluminium	**SRS-2-L-83**		1/10
	Rocker 2-gang "dimming" symbol left		
white	**SRD-2-L-84**		1/10
anthracite	**SRD-2-L-81**		1/10
aluminium	**SRD-2-L-83**		1/10
	Rocker 2-gang "lighting" symbol right		
white	**SRL-2-R-84**		1/10
anthracite	**SRL-2-R-81**		1/10
aluminium	**SRL-2-R-83**		1/10
	Rocker 2-gang "scene" symbol right		
white	**SRS-2-R-84**		1/10
anthracite	**SRS-2-R-81**		1/10
aluminium	**SRS-2-R-83**		1/10
	Rocker 2-gang "dimming" symbol right		
white	**SRD-2-R-84**		1/10
anthracite	**SRD-2-R-81**		1/10
aluminium	**SRD-2-R-83**		1/10
	Rocker 2-gang "blinds" symbol		
white	**SRB-2-84**		1/10
anthracite	**SRB-2-81**		1/10
aluminium	**SRB-2-83**		1/10

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog ® 180 Sensor Standard, Select with integrated bus coupler, FM** Movement detector with up to 4 channels. The bus can be connected via enclosed terminal block. With integrated KNX bus coupler.		
white	**6122/10-84-500**	2TKA00003199	1/10
anthracite	**6122/10-81-500**	2TKA00003197	1/10
aluminium	**6122/10-83-500**	2TKA00003198	1/10
	**Room thermostat, heating/cooling operation** Control element with room thermostat function for triggering the heating, ventilation and fancoil actuators. For controlling commercially available valve drives. With display of set-value temperature. Master/slave configuration. With base-load operation. The bus can be connected via enclosed terminal block.		
	Room thermostat		
	6108/18-500	2TKA00003196	1/10
	Thermostat center plate		
white	**CP-RTC-84**	2TKA00002784	1/10
anthracite	**CP-RTC-81**	2TKA00002782	1/10
aluminium	**CP-RTC-83**	2TKA00002783	1/10

Impressivo

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Product	Article-No.	Order-No.	Pack/Qty
	**Power supply** ABB-free@home power supply with integrated choke. Fast diagnosis due to LED display for operational readiness and errors. Module width 4 MW. Power supply 640mA 30/230V DIN.		
	PS-M-64.1.1	2TKA00002701	1/10
	**System Access Point** For commissioning and remote control of the ABB-free@home® system. Allows the execution of astro and time programs.		
	Connector port System access point 230V WL **SAP-S-2**		1/10
	External antenna for SAP-S-2 **SAP-1-WL**		1/10

Product	Article-No.	Order-No.	Pack/Qty
	**1gang** Sensor unit and different rockers		
	Sensor unit 1-gang **SU-F-1.0.1**	2TKA00002717	1/10
	Sensor unit 1-gang WL **SU-F-1.0.1-WL**		1/10
	Rocker 1-gang		
white	**SR-1-84**	2TKA00002776	1/10
anthracite	**SR-1-81**	2TKA00002774	1/10
aluminium	**SR-1-83**	2TKA00002775	1/10
	**2-gang** Sensor unit and different rockers. Both sides of the rocker are ordered separately.		
	Sensor unit 2-gang **SU-F-2.0.1**	2TKA00002719	1/10
	Sensor unit 2-gang WL **SU-F-2.0.1-WL**		1/10
	Rocker 2-gang left/right		
white	**SR-2-84**	2TKA00002779	1/10
anthracite	**SR-2-81**	2TKA00002777	1/10
aluminium	**SR-2-83**	2TKA00002778	1/10
	**Switch actuator sensor** Insert and different rockers		
	Switch actuator sensor 1/1-gang **SSA-F-1.1.1**	2TKA00002796	1/10
	Switch actuator sensor 1/1-gang WL **SSA-F-1.1.1-WL**		1/10
	Rocker 1-gang		
white	**SR-1-84**	2TKA00002776	1/10
anthracite	**SR-1-81**	2TKA00002774	1/10
aluminium	**SR-1-83**	2TKA00002775	1/10

Impressivo

KNX

Product	Article-No.	Order-No.	Pack/Qty
	**Switch actuator sensor** Insert 2/1-gang, 2/2-gang and different rockers. Both sides of the rocker are ordered separately.		
	Switch actuator sensor 2/1-gang **SSA-F-2.1.1**	2TKA00002797	1/10
	Switch actuator sensor 2/1-gang WL **SSA-F-2.1.1-WL**		1/10
	Switch actuator sensor 2/2-gang **SSA-F-2.2.1**	2TKA00002798	1/10
	Switch actuator sensor 2/2-gang WL **SSA-F-2.2.1-WL**		1/10
	Rocker 2-gang left/right		
white	**SR-2-84**	2TKA00002779	1/10
anthracite	**SR-2-81**	2TKA00002777	1/10
aluminium	**SR-2-83**	2TKA00002778	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**Labeling plate** Labeling plate cover plates. Useable text area is (12 x 52)mm.		
	2752	2TKA00000053	10/100

Impressivo

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Product	Article-No.	Order-No.	Pack/Qty
	1-gang rockers with icon		
	Rocker 1-gang "lighting" symbol		
white	**SRL-1-84**		1/10
anthracite	**SRL-1-81**		1/10
aluminium	**SRL-1-83**		1/10
	Rocker 1-gang "blinds" symbol		
white	**SRB-1-84**		1/10
anthracite	**SRB-1-81**		1/10
aluminium	**SRB-1-83**		1/10
	Rocker 1-gang "scene" symbol		
white	**SRS-1-84**		1/10
anthracite	**SRS-1-81**		1/10
aluminium	**SRS-1-83**		1/10
	Rocker 1-gang "dimming" symbol		
white	**SRD-1-84**		1/10
anthracite	**SRD-1-81**		1/10
aluminium	**SRD-1-83**		1/10

Product	Article-No.	Order-No.	Pack/Qty
	2-gang rockers with icon		
	Rocker 2-gang "lighting" symbol left		
white	**SRL-2-L-84**		1/10
anthracite	**SRL-2-L-81**		1/10
aluminium	**SRL-2-L-83**		1/10
	Rocker 2-gang "scene" symbol left		
white	**SRS-2-L-84**		1/10
anthracite	**SRS-2-L-81**		1/10
aluminium	**SRS-2-L-83**		1/10
	Rocker 2-gang "dimming" symbol left		
white	**SRD-2-L-84**		1/10
anthracite	**SRD-2-L-81**		1/10
aluminium	**SRD-2-L-83**		1/10
	Rocker 2-gang "lighting" symbol right		
white	**SRL-2-R-84**		1/10
anthracite	**SRL-2-R-81**		1/10
aluminium	**SRL-2-R-83**		1/10
	Rocker 2-gang "scene" symbol right		
white	**SRS-2-R-84**		1/10
anthracite	**SRS-2-R-81**		1/10
aluminium	**SRS-2-R-83**		1/10
	Rocker 2-gang "dimming" symbol right		
white	**SRD-2-R-84**		1/10
anthracite	**SRD-2-R-81**		1/10
aluminium	**SRD-2-R-83**		1/10
	Rocker 2-gang "blinds" symbol		
white	**SRB-2-84**		1/10
anthracite	**SRB-2-81**		1/10
aluminium	**SRB-2-83**		1/10

Impressivo

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Product	Article-No.	Order-No.	Pack/Qty
	**Dimming actuator 4gang** Multi-channel universal dimming actuator for controlling LEDs, incandescent lamps, 230 V halogen lamps, low-voltage halogen lamps with conventional or electronic transformers, and dimmable energy-saving halogen lamps. For dimmable retrofit LED lamps (LEDi). Increasing the maximum load via channel bridging possible. The outputs can be switched parallel in any combination. Outputs automatically recognise the connected load. In addition, the operating mode can be selected manually. Status indication of the channels via LED.		
	Universal dimmer 4gang **DA-M-0.4.2**	2TKA00002715	1
	Compensator **6596**	2TKA00002992	1
	**Dim actuator sensor** For dimming 230 V~ loads. With integrated universal dimming actuator for controlling different lamps. The dimming function is available also without prior programming (pre-configured).		
	Dimmer 1/1-gang **SDA-F-1.1.1**	2TKA00002800	1/10
	Dimmer 1/1-gang WL **SDA-F-1.1.1-WL**		1/10
	Rocker 1-gang		
white	**SR-1-84**	2TKA00002776	1/10
anthracite	**SR-1-81**	2TKA00002774	1/10
aluminium	**SR-1-83**	2TKA00002775	1/10
	Compensator **6596**	2TKA00002992	1
	Dimmer 2/1-gang **SDA-F-2.1.1**	2TKA00002801	1/10
	Dimmer 2/1-gang WL **SDA-F-2.1.1-WL**		1/10
	Rocker 2-gang left/right		
white	**SR-2-84**	2TKA00002779	1/10
anthracite	**SR-2-81**	2TKA00002777	1/10
aluminium	**SR-2-83**	2TKA00002778	1/10

Product	Article-No.	Order-No.	Pack/Qty
	**Movement detector** For automatic switching of ABB-free@home® actuators dependent on movement and brightness.		
white	**MD-F-1.0.1-84**	2TKA00002773	1/10
anthracite	**MD-F-1.0.1-81**	2TKA00002771	1/10
aluminium	**MD-F-1.0.1-83**	2TKA00002772	1/10
	**Movement detector/switch actuator** For automatic switching of ABB-free@home® actuators dependent on movement and brightness. With integrated switch actuator. Switching function is available also without prior programming (pre-configured).		
white	**MSA-F-1.1.1-84**	2TKA00002805	1/10
anthracite	**MSA-F-1.1.1-81**	2TKA00002803	1/10
aluminium	**MSA-F-1.1.1-83**	2TKA00002804	1/10

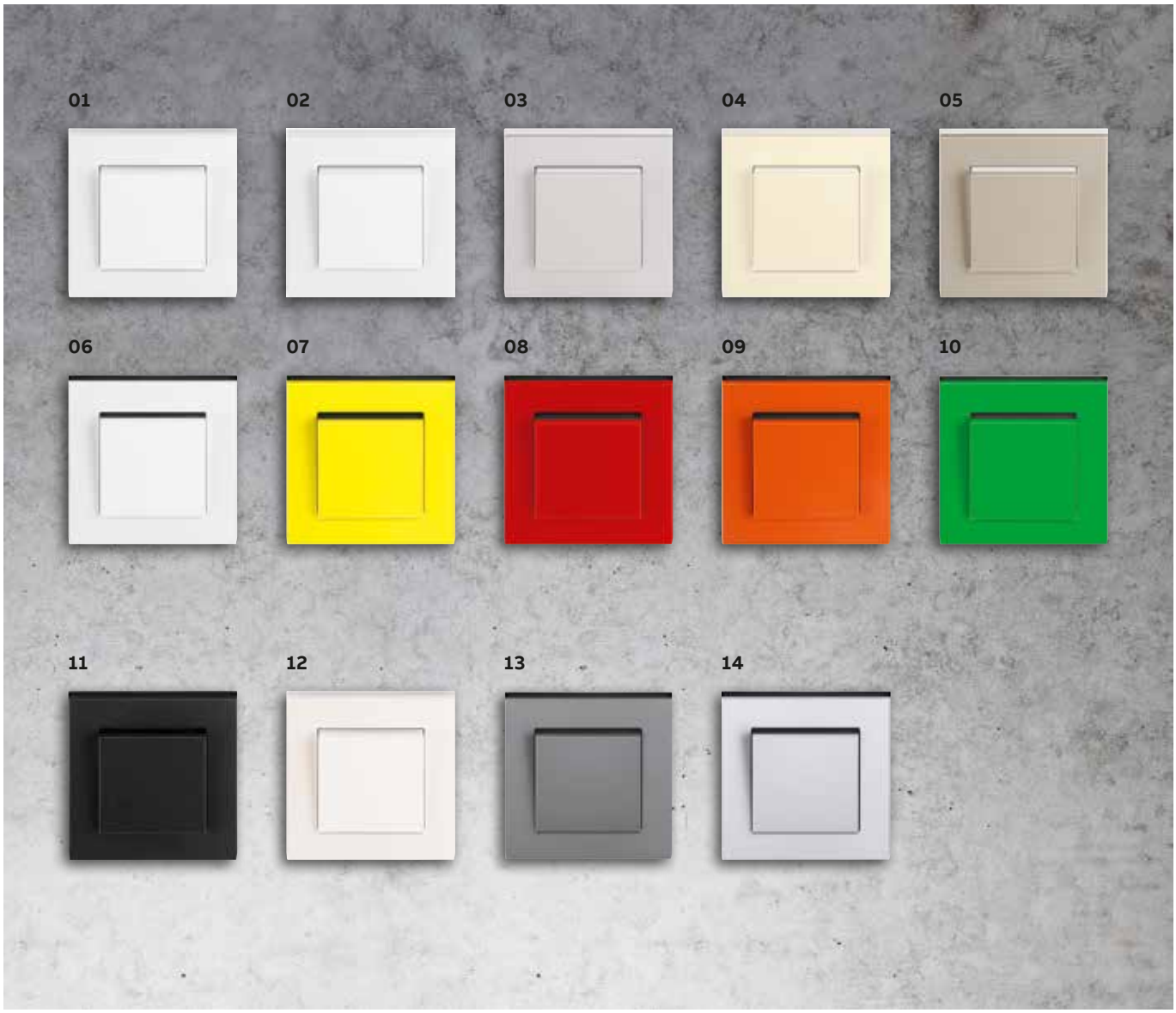
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ABB-free@home

Product	Article-No.	Order-No.	Pack/Qty
	**Room temperature controller** Control element with room temperature control function for controlling commercially available actuating drives or analogue actuating drives (continuous controllers) in connection with HA-M-0.6.1, HA-M-0.12.1. With display of set-value temperature. Only to be used in combination with ABB-free@home® room temperature controller cover plates CP-RTC-xxx.		
	Room thermostat insert **RTC-F-1**	2TKA00002780	1/10
	Thermostat insert WL **RTC-F-1-WL**		1/10
	Thermostat insert 1-gang WL **RTC-F-2.1.1-WL**		1/10
	DP4-T-1	2TKA00003293	1/10
	DP4-1-611	2TKA00003291	1/10
	Flush-mounted installation box for 4,3" Touch panel ABB-free@home® **DP4-F**	2TKA00003295	1/10
	Thermostat center plate		
white	**CP-RTC-84**	2TKA00002784	1/10
anthracite	**CP-RTC-81**	2TKA00002782	1/10
aluminium	**CP-RTC-83**	2TKA00002783	1/10
	Thermostat cover plate fan coil controller		
white	**CP-FCC-84**	2TKA00003234	1/10
anthracite	**CP-FCC-81**	2TKA00003232	1/10
aluminium	**CP-FCC-83**	2TKA00003233	1/10
anthracite	4,3" Touch Panel free@home Thermostat **DP4-1-625**	2TKA00003292	1/10
	**Blind actuator sensor** For controlling blind and awning motors. With integrated blind actuator. Blind function is available also without prior programming (pre-configured).		
	Blind actuator sensor 1/1-gang **SBA-F-1.1.1**	2TKA00002806	1/10
	Blind actuator sensor 1/1-gang WL **SBA-F-1.1.1-WL**		1/10
	Blind actuator sensor 2/1-gang **SBA-F-2.1.1**	2TKA00003051	1/10
	Blind actuator sensor 2/1-gang WL **SBA-F-2.1.1-WL**		1/10
	Rocker 1-gang		
white	**SR-1-84**	2TKA00002776	1/10
anthracite	**SR-1-81**	2TKA00002774	1/10
aluminium	**SR-1-83**	2TKA00002775	1/10
	Rocker 1-gang "blinds" symbol		
white	**SRB-1-84**		1/10
anthracite	**SRB-1-81**		1/10
aluminium	**SRB-1-83**		1/10

Levit®
Go bright

The Levit® collection will perfectly fit into any modern home. Clear straight lines, the timeless shape of the square, the ideal proportions of the button and frame, and the striking contrast of the two-piece base. Levit®M extendends the range with cool metalic shades, which reflect the current trends in world design.



01 White / Ice white
02 White / White
03 Grey / White
04 Ivory / White
05 Macchiato / White
06 White / Smoke black
07 Yellow / Smoke black
08 Red / Smoke black
09 Orange / Smoke black
10 Green / Smoke black
11 Anthracite / Smoke Black
12 Pearl / Ice White
13 Steel / Smoke black
14 Silver / Smoke black

Levit®

Standard inserts

01



02



03



04



05



06



07



08



09



10



11



12



13



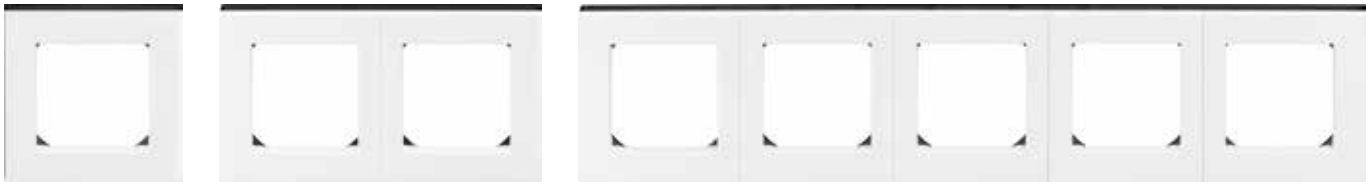
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A basic product consists of a practical 2-piece (insert and cover plate, frame) and individual packaging.

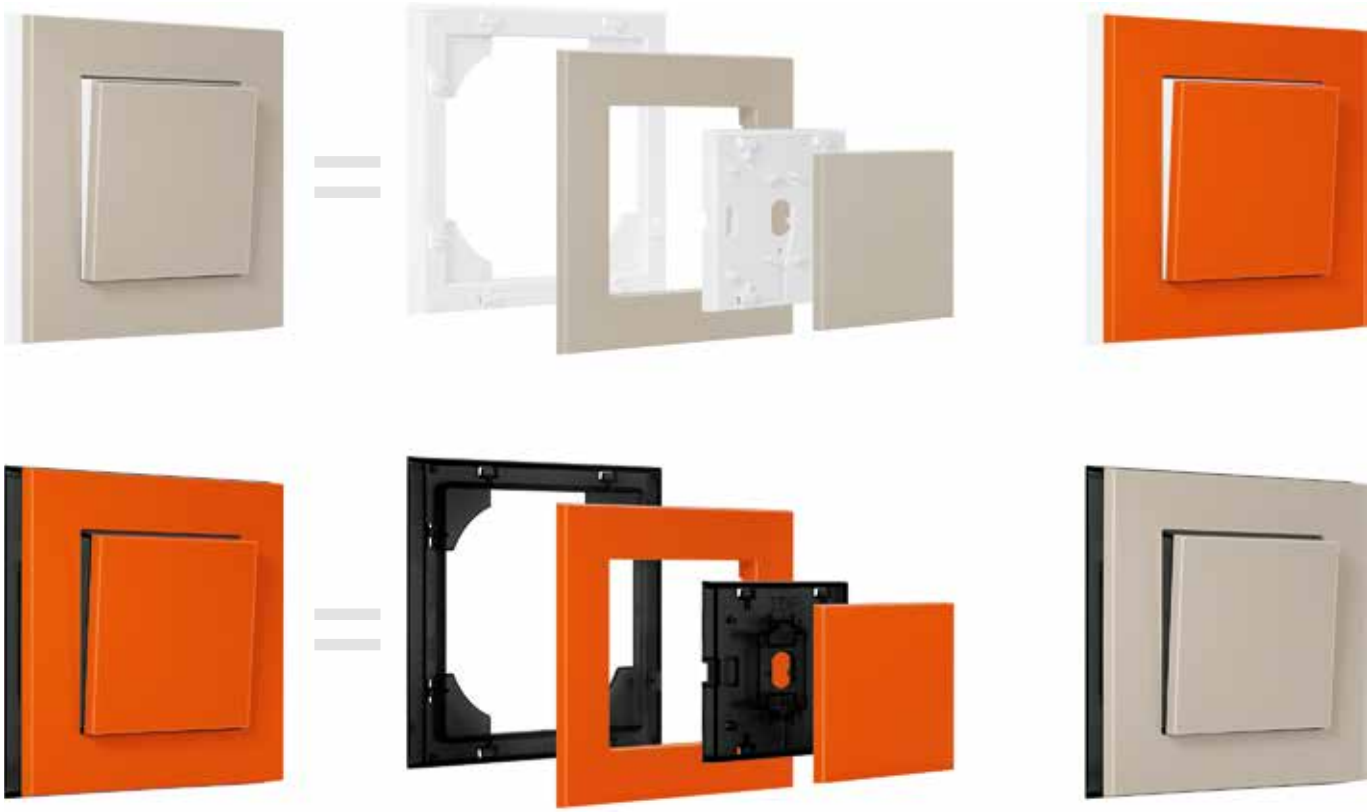
Switches, one- or two-way, push-switches	01 Switch (one- or two-way) 02 Switch (one- or two-way) with orientation light 03 Switch (two-way) with indicator light 04 Switch (one- or two-way), two circuits 05 Blind switch with / without locking keys
Telecommunications	06 Connection unit TV-R 07 Connection unit TV-R-SAT 08 Data socket outlet RJ45 (for one or two jacks)
Connection units	09 SCHUKO socket outlet, shuttered 10 Double SCHUKO socket outlet, shuttered
Electronics	11 Rotary dimmer, 60-600W 12 Thermostat with rotary temperature setting, 16A 13 USB charge, 1400 mA
Blind covers, frames	14 Blind cover 15 Cable outlet 16 Frames, one to five gang* (universal for horizontal or vertical mounting) * Compatible with standard Levit® inserts (50×50)



One collection – a million possibilities

The core idea behind the Levit® collection is flexibility and variation

The cover plates and cover frames for every insert consist of two pieces: a base and a removable upper covers. The product is therefore designed in such a way so that the upper covers can be changed as desired, meaning that new color combinations can be created beyond the standard solutions we provide.



The collection features removable cover frames in nine colors.
The set includes a special tool to easily dismantle the upper cover.



The LEGO principle goes for the frames too

Multi-gang frames are also designed using the module concept: the frame base is solid, but the number of upper covers depends on the number of gangs in the frame, and everything comes together like LEGO. This means that any frame with more than one gang can be built of multiple colors. The limit is your imagination!







Unusual socket outlets

Another interesting detail: the interior of the socket outlet will always be the same color as its base. This means that in Levit® socket outlets with a translucent base, you can see the reliable German insert produced by Busch-Jaeger, a member of the ABB group.





Levit®
Switches

Product	Article-No.	Order-No.	Pack/Qty
	**Push-switch, 1gang one-way** Individual packaging for retail Nominal voltage: 250 V ~ Nominal current: 10 AX Screwless terminals		
White/Ice white	**3559H-A01445 01W**	2CHH590145A6001	15
White/White	**3559H-A01445 03W**	2CHH590145A6003	15
Grey/White	**3559H-A01445 16W**	2CHH590145A6016	15
Ivory/White	**3559H-A01445 17W**	2CHH590145A6017	15
Macchiato/White	**3559H-A01445 18W**	2CHH590145A6018	15
White/ Smoke black	**3559H-A01445 62W**	2CHH590145A6062	15
Anthracite/ Smoke Black	**3559H-A01445 63W**	2CHH590145A6063	15
Yellow/ Smoke black	**3559H-A01445 64W**	2CHH590145A6064	15
Red/ Smoke black	**3559H-A01445 65W**	2CHH590145A6065	15
Orange/ Smoke black	**3559H-A01445 66W**	2CHH590145A6066	15
Green/ Smoke black	**3559H-A01445 67W**	2CHH590145A6067	15
Pearl/ Ice White	**3559H-A01445 68W**	2CHH590145A6068	15
Steel/ Smoke black	**3559H-A01445 69W**	2CHH590145A6069	15
Silver/ Smoke black	**3559H-A01445 70W**	2CHH590145A6070	15
	**Switch (connection type 6)** Individual packaging for retail Nominal voltage: 250 V ~ Nominal current: 10 AX Screwless terminals		
White/Ice white	**3559H-A06445 01W**	2CHH590645A6001	15
White/White	**3559H-A06445 03W**	2CHH590645A6003	15
Grey/White	**3559H-A06445 16W**	2CHH590645A6016	15
Ivory/White	**3559H-A06445 17W**	2CHH590645A6017	15
Macchiato/White	**3559H-A06445 18W**	2CHH590645A6018	15
White/ Smoke black	**3559H-A06445 62W**	2CHH590645A6062	15
Anthracite/ Smoke Black	**3559H-A06445 63W**	2CHH590645A6063	15
Yellow/ Smoke black	**3559H-A06445 64W**	2CHH590645A6064	15
Red/ Smoke black	**3559H-A06445 65W**	2CHH590645A6065	15
Orange/ Smoke black	**3559H-A06445 66W**	2CHH590645A6066	15
Green/ Smoke black	**3559H-A06445 67W**	2CHH590645A6067	15
Pearl/ Ice White	**3559H-A06445 68W**	2CHH590645A6068	15
Steel/ Smoke black	**3559H-A06445 69W**	2CHH590645A6069	15
Silver/ Smoke black	**3559H-A06445 70W**	2CHH590645A6070	15

Product	Article-No.	Order-No.	Pack/Qty
	**Switch one-way with light** Individual packaging for retail Nominal voltage: 250 V ~ Nominal current: 10 AX White LED orientation light Nominal current of orientation light: 0,5 mA Screwless terminals		
White/Ice white	**3559H-A01446 01W**	2CHH590146A6001	15
White/White	**3559H-A01446 03W**	2CHH590146A6003	15
Grey/White	**3559H-A01446 16W**	2CHH590146A6016	15
Ivory/White	**3559H-A01446 17W**	2CHH590146A6017	15
Macchiato/White	**3559H-A01446 18W**	2CHH590146A6018	15
White/ Smoke black	**3559H-A01446 62W**	2CHH590146A6062	15
Anthracite/ Smoke Black	**3559H-A01446 63W**	2CHH590146A6063	15
Yellow/ Smoke black	**3559H-A01446 64W**	2CHH590146A6064	15
Red/ Smoke black	**3559H-A01446 65W**	2CHH590146A6065	15
Orange/ Smoke black	**3559H-A01446 66W**	2CHH590146A6066	15
Green/ Smoke black	**3559H-A01446 67W**	2CHH590146A6067	15
Pearl/ Ice White	**3559H-A01446 68W**	2CHH590146A6068	15
Steel/ Smoke black	**3559H-A01446 69W**	2CHH590146A6069	15
Silver/ Smoke black	**3559H-A01446 70W**	2CHH590146A6070	15
	**Switch, 1gang two-way with orientation light (connection type 6)** Individual packaging for retail Nominal voltage: 250 V ~ Nominal current: 10 AX White LED orientation light Nominal current of orientation light: 0,5 mA Screwless terminals		
White/Ice white	**3559H-A06446 01W**	2CHH590646A6001	15
White/White	**3559H-A06446 03W**	2CHH590646A6003	15
Grey/White	**3559H-A06446 16W**	2CHH590646A6016	15
Ivory/White	**3559H-A06446 17W**	2CHH590646A6017	15
Macchiato/White	**3559H-A06446 18W**	2CHH590646A6018	15
White/ Smoke black	**3559H-A06446 62W**	2CHH590646A6062	15
Anthracite/ Smoke Black	**3559H-A06446 63W**	2CHH590646A6063	15
Yellow/ Smoke black	**3559H-A06446 64W**	2CHH590646A6064	15
Red/ Smoke black	**3559H-A06446 65W**	2CHH590646A6065	15
Orange/ Smoke black	**3559H-A06446 66W**	2CHH590646A6066	15
Green/ Smoke black	**3559H-A06446 67W**	2CHH590646A6067	15
Pearl/ Ice White	**3559H-A06446 68W**	2CHH590646A6068	15
Steel/ Smoke black	**3559H-A06446 69W**	2CHH590646A6069	15
Silver/ Smoke black	**3559H-A06446 70W**	2CHH590646A6070	15

Levit®
Switches

Product	Article-No.	Order-No.	Pack/Qty
	**Switch, 1gang two-way with control light (connection type 6)** Individual packaging for retail Nominal voltage: 250 V ~ Nominal current: 10 AX Red LED control light Nominal current of orientation light: 1 mA Screwless terminals		
White/Ice white	**3559H-A25445 01W**	2CHH592545A6001	15
White/White	**3559H-A25445 03W**	2CHH592545A6003	15
Grey/White	**3559H-A25445 16W**	2CHH592545A6016	15
Ivory/White	**3559H-A25445 17W**	2CHH592545A6017	15
Macchiato/White	**3559H-A25445 18W**	2CHH592545A6018	15
White/ Smoke black	**3559H-A25445 62W**	2CHH592545A6062	15
Anthracite/ Smoke Black	**3559H-A25445 63W**	2CHH592545A6063	15
Yellow/ Smoke black	**3559H-A25445 64W**	2CHH592545A6064	15
Red/ Smoke black	**3559H-A25445 65W**	2CHH592545A6065	15
Orange/ Smoke black	**3559H-A25445 66W**	2CHH592545A6066	15
Green/ Smoke black	**3559H-A25445 67W**	2CHH592545A6067	15
Pearl/ Ice White	**3559H-A25445 68W**	2CHH592545A6068	15
Steel/ Smoke black	**3559H-A25445 69W**	2CHH592545A6069	15
Silver/ Smoke black	**3559H-A25445 70W**	2CHH592545A6070	15
	**Push-button, 1gang one-way** Individual packaging for retail Nominal voltage: 250 V ~ Nominal current: 10 A NO contact Screwless terminals		
White/Ice white	**3559H-A91445 01W**	2CHH599145A6001	15
White/White	**3559H-A91445 03W**	2CHH599145A6003	15
Grey/White	**3559H-A91445 16W**	2CHH599145A6016	15
Ivory/White	**3559H-A91445 17W**	2CHH599145A6017	15
Macchiato/White	**3559H-A91445 18W**	2CHH599145A6018	15
White/ Smoke black	**3559H-A91445 62W**	2CHH599145A6062	15
Anthracite/ Smoke Black	**3559H-A91445 63W**	2CHH599145A6063	15
Yellow/ Smoke black	**3559H-A91445 64W**	2CHH599145A6064	15
Red/ Smoke black	**3559H-A91445 65W**	2CHH599145A6065	15
Orange/ Smoke black	**3559H-A91445 66W**	2CHH599145A6066	15
Green/ Smoke black	**3559H-A91445 67W**	2CHH599145A6067	15
Pearl/ Ice White	**3559H-A91445 68W**	2CHH599145A6068	15
Steel/ Smoke black	**3559H-A91445 69W**	2CHH599145A6069	15
Silver/ Smoke black	**3559H-A91445 70W**	2CHH599145A6070	15

Product	Article-No.	Order-No.	Pack/Qty
	**Switch intermediate 1gang (connection type 7)** Individual packaging for retail Nominal voltage: 250 V ~ Nominal current: 10 AX Screwless terminals		
White/Ice white	**3559H-A07445 01W**	2CHH590745A6001	15
White/White	**3559H-A07445 03W**	2CHH590745A6003	15
Grey/White	**3559H-A07445 16W**	2CHH590745A6016	15
Ivory/White	**3559H-A07445 17W**	2CHH590745A6017	15
Macchiato/White	**3559H-A07445 18W**	2CHH590745A6018	15
White/ Smoke black	**3559H-A07445 62W**	2CHH590745A6062	15
Anthracite/ Smoke Black	**3559H-A07445 63W**	2CHH590745A6063	15
Yellow/ Smoke black	**3559H-A07445 64W**	2CHH590745A6064	15
Red/ Smoke black	**3559H-A07445 65W**	2CHH590745A6065	15
Orange/ Smoke black	**3559H-A07445 66W**	2CHH590745A6066	15
Green/ Smoke black	**3559H-A07445 67W**	2CHH590745A6067	15
Pearl/ Ice White	**3559H-A07445 68W**	2CHH590745A6068	15
Steel/ Smoke black	**3559H-A07445 69W**	2CHH590745A6069	15
Silver/ Smoke black	**3559H-A07445 70W**	2CHH590745A6070	15
	**Push switch, 1gang one-way with LED lamp** Individual packaging for retail Nominal voltage: 250 V ~ Nominal current: 10 A NO contact White LED orientation light Nominal current of orientation light: 0,5 mA Screwless terminals		
White/Ice white	**3559H-A91447 01W**	2CHH599147A6001	15
White/White	**3559H-A91447 03W**	2CHH599147A6003	15
Grey/White	**3559H-A91447 16W**	2CHH599147A6016	15
Ivory/White	**3559H-A91447 17W**	2CHH599147A6017	15
Macchiato/White	**3559H-A91447 18W**	2CHH599147A6018	15
White/ Smoke black	**3559H-A91447 62W**	2CHH599147A6062	15
Anthracite/ Smoke Black	**3559H-A91447 63W**	2CHH599147A6063	15
Yellow/ Smoke black	**3559H-A91447 64W**	2CHH599147A6064	15
Red/ Smoke black	**3559H-A91447 65W**	2CHH599147A6065	15
Orange/ Smoke black	**3559H-A91447 66W**	2CHH599147A6066	15
Green/ Smoke black	**3559H-A91447 67W**	2CHH599147A6067	15
Pearl/ Ice White	**3559H-A91447 68W**	2CHH599147A6068	15
Steel/ Smoke black	**3559H-A91447 69W**	2CHH599147A6069	15
Silver/ Smoke black	**3559H-A91447 70W**	2CHH599147A6070	15

Levit®
Switches

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 1gang (connection type 6)** Individual packaging for retail Nominal voltage: 250 V ~ Nominal current: 10 A NO contact Screwless terminals		
White/Ice white	**3559H-A86445 01W**	2CHH598645A6001	15
White/White	**3559H-A86445 03W**	2CHH598645A6003	15
Grey/White	**3559H-A86445 16W**	2CHH598645A6016	15
Ivory/White	**3559H-A86445 17W**	2CHH598645A6017	15
Macchiato/White	**3559H-A86445 18W**	2CHH598645A6018	15
White/ Smoke black	**3559H-A86445 62W**	2CHH598645A6062	15
Anthracite/ Smoke Black	**3559H-A86445 63W**	2CHH598645A6063	15
Yellow/ Smoke black	**3559H-A86445 64W**	2CHH598645A6064	15
Red/ Smoke black	**3559H-A86445 65W**	2CHH598645A6065	15
Orange/ Smoke black	**3559H-A86445 66W**	2CHH598645A6066	15
Green/ Smoke black	**3559H-A86445 67W**	2CHH598645A6067	15
Pearl/ Ice White	**3559H-A86445 68W**	2CHH598645A6068	15
Steel/ Smoke black	**3559H-A86445 69W**	2CHH598645A6069	15
Silver/ Smoke black	**3559H-A86445 70W**	2CHH598645A6070	15
	**Switch, 2gang one-way** Individual packaging for retail Nominal voltage: 250 V ~ Nominal current: 10 AX Screwless terminals		
White/Ice white	**3559H-A05445 01W**	2CHH590545A6001	15
White/White	**3559H-A05445 03W**	2CHH590545A6003	15
Grey/White	**3559H-A05445 16W**	2CHH590545A6016	15
Ivory/White	**3559H-A05445 17W**	2CHH590545A6017	15
Macchiato/White	**3559H-A05445 18W**	2CHH590545A6018	15
White/ Smoke black	**3559H-A05445 62W**	2CHH590545A6062	15
Anthracite/ Smoke Black	**3559H-A05445 63W**	2CHH590545A6063	15
Yellow/ Smoke black	**3559H-A05445 64W**	2CHH590545A6064	15
Red/ Smoke black	**3559H-A05445 65W**	2CHH590545A6065	15
Orange/ Smoke black	**3559H-A05445 66W**	2CHH590545A6066	15
Green/ Smoke black	**3559H-A05445 67W**	2CHH590545A6067	15
Pearl/ Ice White	**3559H-A05445 68W**	2CHH590545A6068	15
Steel/ Smoke black	**3559H-A05445 69W**	2CHH590545A6069	15
Silver/ Smoke black	**3559H-A05445 70W**	2CHH590545A6070	15

Product	Article-No.	Order-No.	Pack/Qty
	**Switch, two-pole, 1gang one-way** Individual packaging for retail Nominal voltage: 250 V ~ Nominal current: 10 A Screwless terminals		
White/Ice white	**3559H-A02445 01W**	2CHH590245A6001	15
White/White	**3559H-A02445 03W**	2CHH590245A6003	15
Grey/White	**3559H-A02445 16W**	2CHH590245A6016	15
Ivory/White	**3559H-A02445 17W**	2CHH590245A6017	15
Macchiato/White	**3559H-A02445 18W**	2CHH590245A6018	15
White/ Smoke black	**3559H-A02445 62W**	2CHH590245A6062	15
Anthracite/ Smoke Black	**3559H-A02445 63W**	2CHH590245A6063	15
Yellow/ Smoke black	**3559H-A02445 64W**	2CHH590245A6064	15
Red/ Smoke black	**3559H-A02445 65W**	2CHH590245A6065	15
Orange/ Smoke black	**3559H-A02445 66W**	2CHH590245A6066	15
Green/ Smoke black	**3559H-A02445 67W**	2CHH590245A6067	15
Pearl/ Ice White	**3559H-A02445 68W**	2CHH590245A6068	15
Steel/ Smoke black	**3559H-A02445 69W**	2CHH590245A6069	15
Silver/ Smoke black	**3559H-A02445 70W**	2CHH590245A6070	15
	**Switch, 2gang one-way (connection type 6)** Individual packaging for retail Nominal voltage: 250 V ~ Nominal current: 10 AX Screwless terminals		
White/Ice white	**3559H-A52445 01W**	2CHH595245A6001	15
White/White	**3559H-A52445 03W**	2CHH595245A6003	15
Grey/White	**3559H-A52445 16W**	2CHH595245A6016	15
Ivory/White	**3559H-A52445 17W**	2CHH595245A6017	15
Macchiato/White	**3559H-A52445 18W**	2CHH595245A6018	15
White/ Smoke black	**3559H-A52445 62W**	2CHH595245A6062	15
Anthracite/ Smoke Black	**3559H-A52445 63W**	2CHH595245A6063	15
Yellow/ Smoke black	**3559H-A52445 64W**	2CHH595245A6064	15
Red/ Smoke black	**3559H-A52445 65W**	2CHH595245A6065	15
Orange/ Smoke black	**3559H-A52445 66W**	2CHH595245A6066	15
Green/ Smoke black	**3559H-A52445 67W**	2CHH595245A6067	15
Pearl/ Ice White	**3559H-A52445 68W**	2CHH595245A6068	15
Steel/ Smoke black	**3559H-A52445 69W**	2CHH595245A6069	15
Silver/ Smoke black	**3559H-A52445 70W**	2CHH595245A6070	15

Levit®
Switches

Product	Article-No.	Order-No.	Pack/Qty
	**Switch, 2gang one-way** Individual packaging for retail Nominal voltage: 250 V ~ Nominal current: 10 A NO contact Screwless terminals		
White/Ice white	**3559H-A87445 01W**	2CHH598745A6001	15
White/White	**3559H-A87445 03W**	2CHH598745A6003	15
Grey/White	**3559H-A87445 16W**	2CHH598745A6016	15
Ivory/White	**3559H-A87445 17W**	2CHH598745A6017	15
Macchiato/White	**3559H-A87445 18W**	2CHH598745A6018	15
White/ Smoke black	**3559H-A87445 62W**	2CHH598745A6062	15
Anthracite/ Smoke Black	**3559H-A87445 63W**	2CHH598745A6063	15
Yellow/ Smoke black	**3559H-A87445 64W**	2CHH598745A6064	15
Red/ Smoke black	**3559H-A87445 65W**	2CHH598745A6065	15
Orange/ Smoke black	**3559H-A87445 66W**	2CHH598745A6066	15
Green/ Smoke black	**3559H-A87445 67W**	2CHH598745A6067	15
Pearl/ Ice White	**3559H-A87445 68W**	2CHH598745A6068	15
Steel/ Smoke black	**3559H-A87445 69W**	2CHH598745A6069	15
Silver/ Smoke black	**3559H-A87445 70W**	2CHH598745A6070	15
	**Card switch insert** for panels Art. No. 3559H-A00700 .. Mode of operation: mechanical Suitable for 54 x 86 mm cards Suitable for illumination Orientation light effected through LED light units Art. No. 3916-05444 - white Art. No. 3916-05445 - red Art. No. 3916-05443 - blue Nominal voltage: 250 V ~ Nominal current: 10 A Screwless terminals		
	3559-A92445	2CHX599245A4000	10

Product	Article-No.	Order-No.	Pack/Qty
	**Switch two-way and push-switch + two-way retractive** Individual packaging for retail Nominal voltage: 250 V ~ Nominal current: 10 A Two-way switch, connection type 6 + NO contact push-switch Screwless terminals		
White/Ice white	**3559H-A53445 01W**	2CHH595345A6001	15
White/White	**3559H-A53445 03W**	2CHH595345A6003	15
Grey/White	**3559H-A53445 16W**	2CHH595345A6016	15
Ivory/White	**3559H-A53445 17W**	2CHH595345A6017	15
Macchiato/White	**3559H-A53445 18W**	2CHH595345A6018	15
White/ Smoke black	**3559H-A53445 62W**	2CHH595345A6062	15
Anthracite/ Smoke Black	**3559H-A53445 63W**	2CHH595345A6063	15
Yellow/ Smoke black	**3559H-A53445 64W**	2CHH595345A6064	15
Red/ Smoke black	**3559H-A53445 65W**	2CHH595345A6065	15
Orange/ Smoke black	**3559H-A53445 66W**	2CHH595345A6066	15
Green/ Smoke black	**3559H-A53445 67W**	2CHH595345A6067	15
Pearl/ Ice White	**3559H-A53445 68W**	2CHH595345A6068	15
Steel/ Smoke black	**3559H-A53445 69W**	2CHH595345A6069	15
Silver/ Smoke black	**3559H-A53445 70W**	2CHH595345A6070	15
	**Card switch cover plate** For card switch insert (Art. No. 3559-A92445)		
White/Ice white	**3559H-A00700 01**	2CHH590700A4001	20
White/White	**3559H-A00700 03**	2CHH590700A4003	20
Grey/White	**3559H-A00700 16**	2CHH590700A4016	20
Ivory/White	**3559H-A00700 17**	2CHH590700A4017	20
Macchiato/White	**3559H-A00700 18**	2CHH590700A4018	20
White/ Smoke black	**3559H-A00700 62**	2CHH590700A4062	20
Anthracite/ Smoke Black	**3559H-A00700 63**	2CHH590700A4063	20
Yellow/ Smoke black	**3559H-A00700 64**	2CHH590700A4064	20
Red/ Smoke black	**3559H-A00700 65**	2CHH590700A4065	20
Orange/ Smoke black	**3559H-A00700 66**	2CHH590700A4066	20
Green/ Smoke black	**3559H-A00700 67**	2CHH590700A4067	20
Pearl/ Ice White	**3559H-A00700 68**	2CHH590700A4068	20
Steel/ Smoke black	**3559H-A00700 69**	2CHH590700A4069	20
Silver/ Smoke black	**3559H-A00700 70**	2CHH590700A4070	20

Levit®

Switches one- / two-way IP44

Product	Article-No.	Order-No.	Pack/Qty
	**Switch, 1gang two-way IP44 (connection type 6)** Nominal voltage: 250 V ~ Nominal current: 10 AX Screwless terminals Degree of moisture protection: IP44 Compatible with standard Levit frames 1gang to 3gang (Art. No. 3901H-A050..0 ..)		
White/White	**3559H-A06940 03**	2CHH596940A4003	15
Macchiato/White	**3559H-A06940 18**	2CHH596940A4018	15
White/ Smoke black	**3559H-A06940 62**	2CHH596940A4062	15
Anthracite/ Smoke Black	**3559H-A06940 63**	2CHH596940A4063	15
Silver/ Smoke black	**3559H-A06940 70**	2CHH596940A4070	15
	**Push-switch** **1gang two-way IP44 (connection type 6)** Nominal voltage: 250 V ~ Nominal current: 10 AX Screwless terminals Degree of moisture protection: IP44 Compatible with standard Levit frames 1gang to 3gang (Art. No. 3901H-A050..0 ..)		
White/White	**3559H-A86940 03**	2CHH598940A4003	15
Macchiato/White	**3559H-A86940 18**	2CHH598940A4018	15
White/ Smoke black	**3559H-A86940 62**	2CHH598940A4062	15
Anthracite/ Smoke Black	**3559H-A86940 63**	2CHH598940A4063	15
Silver/ Smoke black	**3559H-A86940 70**	2CHH598940A4070	15

Product	Article-No.	Order-No.	Pack/Qty
	**Switch intermediate** **1gang two-way IP44 (connection type 7)** Nominal voltage: 250 V ~ Nominal current: 10 AX Screwless terminals Degree of moisture protection: IP44 Compatible with standard Levit frames 1gang to 3gang (Art. No. 3901H-A050..0 ..)		
White/White	**3559H-A07940 03**	2CHH597940A4003	15
Macchiato/White	**3559H-A07940 18**	2CHH597940A4018	15
White/ Smoke black	**3559H-A07940 62**	2CHH597940A4062	15
Anthracite/ Smoke Black	**3559H-A07940 63**	2CHH597940A4063	15
Silver/ Smoke black	**3559H-A07940 70**	2CHH597940A4070	15
	**Switch, 2gang two-way IP44** Nominal voltage: 250 V ~ Nominal current: 10 AX Screwless terminals Degree of moisture protection: IP44 Compatible with standard Levit frames 1gang to 3gang (Art. No. 3901H-A050..0 ..)		
White/White	**3559H-A05940 03**	2CHH595940A4003	15
Macchiato/White	**3559H-A05940 18**	2CHH595940A4018	15
White/ Smoke black	**3559H-A05940 62**	2CHH595940A4062	15
Anthracite/ Smoke Black	**3559H-A05940 63**	2CHH595940A4063	15
Silver/ Smoke black	**3559H-A05940 70**	2CHH595940A4070	15

Levit®
Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO socket outlet, shuttered** Individual packaging for retail Nominal voltage: 250 V ~ Nominal current: 16 A Screwless terminals		
White/Ice white	**5520H-A03457 01W**	2CHH203457A6001	14
White/White	**5520H-A03457 03W**	2CHH203457A6003	14
Grey/White	**5520H-A03457 16W**	2CHH203457A6016	14
Ivory/White	**5520H-A03457 17W**	2CHH203457A6017	14
Macchiato/White	**5520H-A03457 18W**	2CHH203457A6018	14
White/ Smoke black	**5520H-A03457 62W**	2CHH203457A6062	14
Anthracite/ Smoke Black	**5520H-A03457 63W**	2CHH203457A6063	14
Yellow/ Smoke black	**5520H-A03457 64W**	2CHH203457A6064	14
Red/ Smoke black	**5520H-A03457 65W**	2CHH203457A6065	14
Orange/ Smoke black	**5520H-A03457 66W**	2CHH203457A6066	14
Green/ Smoke black	**5520H-A03457 67W**	2CHH203457A6067	14
Pearl/ Ice White	**5520H-A03457 68W**	2CHH203457A6068	14
Steel/ Smoke black	**5520H-A03457 69W**	2CHH203457A6069	14
Silver/ Smoke black	**5520H-A03457 70W**	2CHH203457A6070	14

Product	Article-No.	Order-No.	Pack/Qty
	**Double SCHUKO socket outlet, shuttered** Individual packaging for retail Nominal voltage: 250 V ~ Nominal current: 16 A With a frame for installation into one installation box Screwless terminals		
White/Ice white	**5522H-C03457 01W**	2CHH223457C6001	10
White/White	**5522H-C03457 03W**	2CHH223457C6003	10
Grey/White	**5522H-C03457 16W**	2CHH223457C6016	10
Ivory/White	**5522H-C03457 17W**	2CHH223457C6017	10
Macchiato/White	**5522H-C03457 18W**	2CHH223457C6018	10
White/ Smoke black	**5522H-C03457 62W**	2CHH223457C6062	10
Anthracite/ Smoke Black	**5522H-C03457 63W**	2CHH223457C6063	10
Yellow/ Smoke black	**5522H-C03457 64W**	2CHH223457C6064	10
Red/ Smoke black	**5522H-C03457 65W**	2CHH223457C6065	10
Orange/ Smoke black	**5522H-C03457 66W**	2CHH223457C6066	10
Green/ Smoke black	**5522H-C03457 67W**	2CHH223457C6067	10
Pearl/ Ice White	**5522H-C03457 68W**	2CHH223457C6068	10
Steel/ Smoke black	**5522H-C03457 69W**	2CHH223457C6069	10
Silver/ Smoke black	**5522H-C03457 70W**	2CHH223457C6070	10

Product	Article-No.	Order-No.	Pack/Qty
	**Socket outlet with earthing pin, shuttered** Individual packaging for retail Nominal voltage: 250 V ~ Nominal current: 16 A Screwless terminals		
White/Ice white	**5519H-A02357 01W**	2CHH132357C6001	14
White/White	**5519H-A02357 03W**	2CHH192357A6003	14
Grey/White	**5519H-A02357 16W**	2CHH192357A6016	14
Ivory/White	**5519H-A02357 17W**	2CHH192357A6017	14
Macchiato/White	**5519H-A02357 18W**	2CHH192357A6018	14
White/Smoke black	**5519H-A02357 62W**	2CHH192357A6062	14
Anthracite/ Smoke Black	**5519H-A02357 63W**	2CHH192357A6063	14
Yellow/Smoke black	**5519H-A02357 64W**	2CHH192357A6064	14
Red/Smoke black	**5519H-A02357 65W**	2CHH192357A6065	14
Orange/Smoke black	**5519H-A02357 66W**	2CHH192357A6066	14
Green/Smoke black	**5519H-A02357 67W**	2CHH192357A6067	14
Pearl/Ice White	**5519H-A02357 68W**	2CHH192357A6068	14
Steel/Smoke black	**5519H-A02357 69W**	2CHH192357A6069	14
Silver/Smoke black	**5519H-A02357 70W**	2CHH192357A6070	14

Product	Article-No.	Order-No.	Pack/Qty
	**Double socket outlet with earthing pins, shuttered** Individual packaging for retail Nominal voltage: 250 V ~ Nominal current: 16 A With turned upper cavity With a frame for installation into one installation box Screwless terminals		
White/Ice white	**5513H-C02357 01W**	2CHH132357C6001	10
White/White	**5513H-C02357 03W**	2CHH132357C6003	10
Grey/White	**5513H-C02357 16W**	2CHH132357C6016	10
Ivory/White	**5513H-C02357 17W**	2CHH132357C6017	10
Macchiato/White	**5513H-C02357 18W**	2CHH132357C6018	10
White/Smoke black	**5513H-C02357 62W**	2CHH132357C6062	10
Anthracite/ Smoke Black	**5513H-C02357 63W**	2CHH132357C6063	10
Yellow/Smoke black	**5513H-C02357 64W**	2CHH132357C6064	10
Red/Smoke black	**5513H-C02357 65W**	2CHH132357C6065	10
Orange/Smoke black	**5513H-C02357 66W**	2CHH132357C6066	10
Green/Smoke black	**5513H-C02357 67W**	2CHH132357C6067	10
Pearl/Ice White	**5513H-C02357 68W**	2CHH132357C6068	10
Steel/Smoke black	**5513H-C02357 69W**	2CHH132357C6069	10
Silver/Smoke black	**5513H-C02357 70W**	2CHH132357C6070	10

Levit®

Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**Socket outlet with earthing pin, shuttered with cover** Nominal voltage: 250 V ~ Nominal current: 16 A Screwless terminals Degree of moisture protection: IP44 Compatible with standard Levit frames 1gang to 3gang (Art. No. 3901H-A050..0 ..)		
White/White	**5519H-A02997 03**	2CHH192997A4003	10
Macchiato/White	**5519H-A02997 18**	2CHH192997A4018	10
White/Smoke black	**5519H-A02997 62**	2CHH192997A4062	10
Anthracite/ Smoke Black	**5519H-A02997 63**	2CHH192997A4063	10
Silver/Smoke black	**5519H-A02997 70**	2CHH192997A4070	10
	**Socket outlet with earthing pin, shuttered with USB charging** Nominal voltage: 250 V ~ Nominal current: 16 A Screwless terminals For simultaneous usage of socket outlet charging of a mobile device with the standard charging interface acc. to EN 62684 via USB cable (type A). Electronic short-circuit and overload protection. Output voltage: 5 V DC ± 5 % (SELV) Rated current: 700 mA Power dissipation: 0.1 W Mounting depth: 35 mm Data transmission not possible. If installing into a separate 1gang frame, please use the specialized frames with a 55×55 internal window (Art. No. 3901H-A05510 ..) If installing into a multigang frame, use standard frames with the corresponding number of gangs (Art. No. 3901H-A050..) along with specialized cover plates with internal window 55×55 (Art. No. 3901H-A00..55..): external or internal depending on the position of the insert in the frame. Also available: 2gang frames with a 55×55 internal window (Art. No. 3901H-A05520 ..)		
White/Ice white	**5569H-A02357 01**	2CHH692357A4001	1
White/White	**5569H-A02357 03**	2CHH692357A4003	1
Grey/White	**5569H-A02357 16**	2CHH692357A4016	1
Ivory/White	**5569H-A02357 17**	2CHH692357A4017	1
Macchiato/White	**5569H-A02357 18**	2CHH692357A4018	1
White/Smoke black	**5569H-A02357 62**	2CHH692357A4062	1
Anthracite/ Smoke Black	**5569H-A02357 64**	2CHH692357A4063	1
Yellow/Smoke black	**5569H-A02357 65**	2CHH692357A4064	1
Red/Smoke black	**5569H-A02357 66**	2CHH692357A4065	1
Orange/Smoke black	**5569H-A02357 67**	2CHH692357A4066	1
Green/Smoke black	**5569H-A02357 63**	2CHH692357A4067	1
Pearl/Ice White	**5569H-A02357 68**	2CHH692357A4068	1
Steel/Smoke black	**5569H-A02357 69**	2CHH692357A4069	1
Silver/Smoke black	**5569H-A02357 70**	2CHH692357A4070	1

Product	Article-No.	Order-No.	Pack/Qty
	**Socket outlet 55×55 with earthing pin, shuttered** Nominal voltage: 250 V ~ Nominal current: 16 A Screwless terminals If installing into a separate 1gang frame, please use the specialized frames with a 55×55 internal window (Art. No. 3901H-A05510 ..) If installing into a multigang frame, use standard frames with the corresponding number of gangs (Art. No. 3901H-A050..) along with specialized cover plates with internal window 55×55 (Art. No. 3901H-A00..55..): external or internal depending on the position of the insert in the frame. Also available: 2gang frames with a 55×55 internal window (Art. No. 3901H-A05520 ..)		
White	**5519H-A02557 03**	2CHH192557A4003	10
Grey	**5519H-A02557 16**	2CHH192557A4016	10
Macchiato	**5519H-A02557 18**	2CHH192557A4018	10
Anthracite	**5519H-A02557 63**	2CHH192557A4063	10
Steel	**5519H-A02557 69**	2CHH192557A4069	10
Silver	**5519H-A02557 70**	2CHH192557A4070	10
	**Socket outlet with earthing pin, shuttered with surge protection** Nominal voltage: 250 V ~ Nominal current: 16 A Screwless terminals Optical fault signalling. Degree of protection: IP40		
White/Ice white	**5599H-A02357 01**	2CHH962357C4001	1
White/White	**5599H-A02357 03**	2CHH962357C4003	1
Grey/White	**5599H-A02357 16**	2CHH962357C4016	1
Ivory/White	**5599H-A02357 17**	2CHH962357C4017	1
Macchiato/White	**5599H-A02357 18**	2CHH962357C4018	1
White/Smoke black	**5599H-A02357 62**	2CHH962357C4062	1
Anthracite/ Smoke Black	**5599H-A02357 63**	2CHH962357C4063	1
Yellow/Smoke black	**5599H-A02357 64**	2CHH962357C4064	1
Red/Smoke black	**5599H-A02357 65**	2CHH962357C4065	1
Orange/Smoke black	**5599H-A02357 66**	2CHH962357C4066	1
Green/Smoke black	**5599H-A02357 67**	2CHH962357C4067	1
Pearl/Ice White	**5599H-A02357 68**	2CHH962357C4068	1
Steel/Smoke black	**5599H-A02357 69**	2CHH962357C4069	1
Silver/Smoke black	**5599H-A02357 70**	2CHH962357C4070	1

Levit®
Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**Double socket outlet with earthing pins, shuttered with surge protection and turned upper cavity** Nominal voltage: 250 V ~ Nominal current: 16 A With a frame for installation into one installation box Optical fault signalling. Screwless terminals		
White/Ice white	**5593H-C02357 01**	2CHH922357C4001	1
White/White	**5593H-C02357 03**	2CHH922357C4003	1
Grey/White	**5593H-C02357 16**	2CHH922357C4016	1
Ivory/White	**5593H-C02357 17**	2CHH922357C4017	1
Macchiato/White	**5593H-C02357 18**	2CHH922357C4018	1
White/Smoke black	**5593H-C02357 62**	2CHH922357C4062	1
Anthracite/ Smoke Black	**5593H-C02357 64**	2CHH922357C4063	1
Yellow/Smoke black	**5593H-C02357 65**	2CHH922357C4064	1
Red/Smoke black	**5593H-C02357 66**	2CHH922357C4065	1
Orange/Smoke black	**5593H-C02357 67**	2CHH922357C4066	1
Green/Smoke black	**5593H-C02357 63**	2CHH922357C4067	1
Pearl/Ice White	**5593H-C02357 68**	2CHH922357C4068	1
Steel/Smoke black	**5593H-C02357 69**	2CHH922357C4069	1
Silver/Smoke black	**5593H-C02357 70**	2CHH922357C4070	1
	**Socket outlet with earthing pin, shuttered with overcurrent protection** Nominal voltage: 250 V ~ Nominal current: 16 A Screwless terminals Residual working current IΔn: 30 mA Type A, AC and pulse current sensitivity Rated current In: 16 A Rated frequency: 45 - 60 Hz Charging time at 5× IΔn: max. 30 ms Rated short-circuit current: 3,000 A Impulse current resistance: 3,000 A, 8/20 µs Ambient temperature: –25 °C to +40 °C Degree of protection: IP 20 Climatic resistance: in accordance with EN 61008-1 Connection cross-section: 1.5 to 2.5 mm^2 Mounting depth: 32 mm If installing into a separate 1gang frame, please use the specialized frames with a 55×55 internal window (Art. No. 3901H-A05510 ..) If installing into a multigang frame, use standard frames with the corresponding number of gangs (Art. No. 3901H-A050..) along with specialized cover plates with internal window 55×55 (Art. No. 3901H-A00..55..): external or internal depending on the position of the insert in the frame. Also available: 2gang frames with a 55×55 internal window (Art. No. 3901H-A05520 ..)		
White	**5526H-A02369 03**	2CHH262369A4003	1

Product	Article-No.	Order-No.	Pack/Qty
	**Socket outlet for centralized dust collector** Socket outlet with cover and base is designed for centralized dust collection systems to be used with 51 mm pipes (with 32 to 36 mm tapered end and 37.5 / 37.0 to 38.5 / 38 mm diameter) For vacuums of pressure 10–45 kPa. The frame is integral to the socket outlet The socket outlet cannot be mounted in multi-gang frames The horizontal axis of the socket outlet is the horizontal axis of the pipe opening		
White/Ice white	**5530H-C67107 01**	2CHH506717C4001	8
White/White	**5530H-C67107 03**	2CHH506717C4003	8
Grey/White	**5530H-C67107 16**	2CHH506717C4016	8
Ivory/White	**5530H-C67107 17**	2CHH506717C4017	8
Macchiato/White	**5530H-C67107 18**	2CHH506717C4018	8
White/ Smoke black	**5530H-C67107 62**	2CHH506717C4062	8
Anthracite/ Smoke Black	**5530H-C67107 63**	2CHH506717C4063	8
Yellow/ Smoke black	**5530H-C67107 64**	2CHH506717C4064	8
Red/ Smoke black	**5530H-C67107 65**	2CHH506717C4065	8
Orange/ Smoke black	**5530H-C67107 66**	2CHH506717C4066	8
Green/ Smoke black	**5530H-C67107 67**	2CHH506717C4067	8
Pearl/ Ice White	**5530H-C67107 68**	2CHH506717C4068	8
Steel/ Smoke black	**5530H-C67107 69**	2CHH506717C4069	8
Silver/ Smoke black	**5530H-C67107 70**	2CHH506717C4070	8

Levit®

Telecommunications systems / multimedia

Product	Article-No.	Order-No.	Pack/Qty
	**Antenna socket outlet, TV-R, END** Individual packaging for retail Resistance: 75 Ohm For 3.6 - 6.8 mm coaxial cable		
White	**5011H-A03503 03W**	2CHH083503A6003	16
Grey	**5011H-A03503 16W**	2CHH083503A6016	16
Ivory	**5011H-A03503 17W**	2CHH083503A6017	16
Macchiato	**5011H-A03503 18W**	2CHH083503A6018	16
Anthracite	**5011H-A03503 63W**	2CHH083503A6063	16
Yellow	**5011H-A03503 64W**	2CHH083503A6064	16
Red	**5011H-A03503 65W**	2CHH083503A6065	16
Orange	**5011H-A03503 66W**	2CHH083503A6066	16
Green	**5011H-A03503 67W**	2CHH083503A6067	16
Pearl	**5011H-A03503 68W**	2CHH083503A6068	16
Steel	**5011H-A03503 69W**	2CHH083503A6069	16
Silver	**5011H-A03503 70W**	2CHH083503A6070	16
	**Connection unit TV-R-SAT** Individual packaging for retail Power supply to adapter for satellite receiver 500 mA DC, 22 kHz Resistance: 75 Ohm For 3.6 - 6.8 mm coaxial cable		
White	**5011H-A03303 03W**	2CHH083303A6003	16
Grey	**5011H-A03303 16W**	2CHH083303A6016	16
Ivory	**5011H-A03303 17W**	2CHH083303A6017	16
Macchiato	**5011H-A03303 18W**	2CHH083303A6018	16
Anthracite	**5011H-A03303 63W**	2CHH083303A6063	16
Yellow	**5011H-A03303 64W**	2CHH083303A6064	16
Red	**5011H-A03303 65W**	2CHH083303A6065	16
Orange	**5011H-A03303 66W**	2CHH083303A6066	16
Green	**5011H-A03303 67W**	2CHH083303A6067	16
Pearl	**5011H-A03303 68W**	2CHH083303A6068	16
Steel	**5011H-A03303 69W**	2CHH083303A6069	16
Silver	**5011H-A03303 70W**	2CHH083303A6070	16
	**TV-R socket outlet insert, loop-through type** for panels Art. No. 5011H-A00300 .. Tap loss: 10 dB Resistance: 75 Ohm For 3.6 - 6.8 mm coaxial cable		
	5011-A3610	2CHU083610A4000	1
	**TV-R socket outlet insert, loop-through type** for panels Art. No. 5011H-A00300 .. Tap loss: 14 dB Resistance: 75 Ohm For 3.6 - 6.8 mm coaxial cable		
	5011-A3614	2CHU083614A4000	1

Product	Article-No.	Order-No.	Pack/Qty
	**TV-R socket outlet, loop-through type** Individual packaging for retail Tap loss: 7 dB Resistance: 75 Ohm For 3.6 - 6.8 mm coaxial cable		
White	**5011H-A03607 03W**	2CHH083607A6003	16
Grey	**5011H-A03607 16W**	2CHH083607A6016	16
Ivory	**5011H-A03607 17W**	2CHH083607A6017	16
Macchiato	**5011H-A03607 18W**	2CHH083607A6018	16
Anthracite	**5011H-A03607 63W**	2CHH083607A6063	16
Yellow	**5011H-A03607 64W**	2CHH083607A6064	16
Red	**5011H-A03607 65W**	2CHH083607A6065	16
Orange	**5011H-A03607 66W**	2CHH083607A6066	16
Green	**5011H-A03607 67W**	2CHH083607A6067	16
Pearl	**5011H-A03607 68W**	2CHH083607A6068	16
Steel	**5011H-A03607 69W**	2CHH083607A6069	16
Silver	**5011H-A03607 70W**	2CHH083607A6070	16
	TV-R / TV-R-SAT socket outlet cover plate For TV-R socket outlet inserts (Art. No. 5011-A3610 and 5011-A3614)		
White	**5011H-A00300 03**	2CHH080300A4003	10
Grey	**5011H-A00300 16**	2CHH080300A4016	10
Ivory	**5011H-A00300 17**	2CHH080300A4017	10
Macchiato	**5011H-A00300 18**	2CHH080300A4018	10
Anthracite	**5011H-A00300 63**	2CHH080300A4063	10
Yellow	**5011H-A00300 64**	2CHH080300A4064	10
Red	**5011H-A00300 65**	2CHH080300A4065	10
Orange	**5011H-A00300 66**	2CHH080300A4066	10
Green	**5011H-A00300 67**	2CHH080300A4067	10
Pearl	**5011H-A00300 68**	2CHH080300A4068	10
Steel	**5011H-A00300 69**	2CHH080300A4069	10
Silver	**5011H-A00300 70**	2CHH080300A4070	10

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Data socket outlet, RJ45 CAT5e + end strip
Includes:
Individual packaging for retail
RJ45 category 5e + end strip
With labelling field

Product	Article-No.	Order-No.	Pack/Qty
White	**5014H-A51017 03W**	2CHH295117A6003	24
Grey	**5014H-A51017 16W**	2CHH295117A6016	24
Ivory	**5014H-A51017 17W**	2CHH295117A6017	24
Macchiato	**5014H-A51017 18W**	2CHH295117A6018	24
Anthracite	**5014H-A51017 63W**	2CHH295117A6063	24
Yellow	**5014H-A51017 64W**	2CHH295117A6064	24
Red	**5014H-A51017 65W**	2CHH295117A6065	24
Orange	**5014H-A51017 66W**	2CHH295117A6066	24
Green	**5014H-A51017 67W**	2CHH295117A6067	24
Pearl	**5014H-A51017 68W**	2CHH295117A6068	24
Steel	**5014H-A51017 69W**	2CHH295117A6069	24
Silver	**5014H-A51017 70W**	2CHH295117A6070	24



Data socket outlet, RJ45+end strip, CAT6
Individual packaging for retail
Includes: RJ45 (category 6) + end strip
With labelling field

Product	Article-No.	Order-No.	Pack/Qty
White	**5014H-A61017 03W**	2CHH296117A6003	24
Grey	**5014H-A61017 16W**	2CHH296117A6016	24
Ivory	**5014H-A61017 17W**	2CHH296117A6017	24
Macchiato	**5014H-A61017 18W**	2CHH296117A6018	24
Anthracite	**5014H-A61017 63W**	2CHH296117A6063	24
Yellow	**5014H-A61017 64W**	2CHH296117A6064	24
Red	**5014H-A61017 65W**	2CHH296117A6065	24
Orange	**5014H-A61017 66W**	2CHH296117A6066	24
Green	**5014H-A61017 67W**	2CHH296117A6067	24
Pearl	**5014H-A61017 68W**	2CHH296117A6068	24
Steel	**5014H-A61017 69W**	2CHH296117A6069	24
Silver	**5014H-A61017 70W**	2CHH296117A6070	24



Cover plate for communication inserts with mounting plate
Metallic mounting plate with cover plate
For mounting two Modular-Jack (keystone)
Dimensions of socket connector: 19.4X14.8 mm
Can be used with cover strips Art. No. 1116412-3
With labelling field

Product	Article-No.	Order-No.	Pack/Qty
White	**5014H-A01018 03**	2CHH291018A4003	10
Grey	**5014H-A01018 16**	2CHH291018A4016	10
Ivory	**5014H-A01018 17**	2CHH291018A4017	10
Macchiato	**5014H-A01018 18**	2CHH291018A4018	10
Anthracite	**5014H-A01018 63**	2CHH291018A4063	10
Yellow	**5014H-A01018 64**	2CHH291018A4064	10
Red	**5014H-A01018 65**	2CHH291018A4065	10
Orange	**5014H-A01018 66**	2CHH291018A4066	10
Green	**5014H-A01018 67**	2CHH291018A4067	10
Pearl	**5014H-A01018 68**	2CHH291018A4068	10
Steel	**5014H-A01018 69**	2CHH291018A4069	10
Silver	**5014H-A01018 70**	2CHH291018A4070	10



Data socket outlet, 2×RJ45, CAT 5e
Individual packaging for retail
Includes: two RJ45 (category 5e)
With labelling field

Product	Article-No.	Order-No.	Pack/Qty
White	**5014H-A51018 03W**	2CHH295118A6003	24
Grey	**5014H-A51018 16W**	2CHH295118A6016	24
Ivory	**5014H-A51018 17W**	2CHH295118A6017	24
Macchiato	**5014H-A51018 18W**	2CHH295118A6018	24
Anthracite	**5014H-A51018 63W**	2CHH295118A6063	24
Yellow	**5014H-A51018 64W**	2CHH295118A6064	24
Red	**5014H-A51018 65W**	2CHH295118A6065	24
Orange	**5014H-A51018 66W**	2CHH295118A6066	24
Green	**5014H-A51018 67W**	2CHH295118A6067	24
Pearl	**5014H-A51018 68W**	2CHH295118A6068	24
Steel	**5014H-A51018 69W**	2CHH295118A6069	24
Silver	**5014H-A51018 70W**	2CHH295118A6070	24



Data socket outlet, 2×RJ45, CAT 6
Individual packaging for retail
Includes: two RJ 45 (CAT 6)
With labelling field

Product	Article-No.	Order-No.	Pack/Qty
White	**5014H-A61018 03W**	2CHH296118A6003	24
Grey	**5014H-A61018 16W**	2CHH296118A6016	24
Ivory	**5014H-A61018 17W**	2CHH296118A6017	24
Macchiato	**5014H-A61018 18W**	2CHH296118A6018	24
Anthracite	**5014H-A61018 63W**	2CHH296118A6063	24
Yellow	**5014H-A61018 64W**	2CHH296118A6064	24
Red	**5014H-A61018 65W**	2CHH296118A6065	24
Orange	**5014H-A61018 66W**	2CHH296118A6066	24
Green	**5014H-A61018 67W**	2CHH296118A6067	24
Pearl	**5014H-A61018 68W**	2CHH296118A6068	24
Steel	**5014H-A61018 69W**	2CHH296118A6069	24
Silver	**5014H-A61018 70W**	2CHH296118A6070	24

Cable outlet
Individual packaging for retail
With strain relief
Compatible with 3 × 1.5 mm² - 5 × 2.5 mm² supply cable
Cross-connecting terminal block is not included

Product	Article-No.	Order-No.	Pack/Qty
White	**3938H-A00034 03W**	2CHH480034A6003	50
Grey	**3938H-A00034 16W**	2CHH480034A6016	50
Ivory	**3938H-A00034 17W**	2CHH480034A6017	50
Macchiato	**3938H-A00034 18W**	2CHH480034A6018	50
Anthracite	**3938H-A00034 63W**	2CHH480034A6063	50
Yellow	**3938H-A00034 64W**	2CHH480034A6064	50
Red	**3938H-A00034 65W**	2CHH480034A6065	50
Orange	**3938H-A00034 66W**	2CHH480034A6066	50
Green	**3938H-A00034 67W**	2CHH480034A6067	50
Pearl	**3938H-A00034 68W**	2CHH480034A6068	50
Steel	**3938H-A00034 69W**	2CHH480034A6069	50
Silver	**3938H-A00034 70W**	2CHH480034A6070	50

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Product	Article-No.	Order-No.	Pack/Qty
	**VGA connection unit** Busch-Jaeger insert Compatible with Levit cover plates Art. No. 5014H-A00040 .. With screw-type terminals and strain relief. To link analogue video data between PCs / laptops and devices for visualization (monitors or digital projectors etc.) VGA-type: D-Sub, 15-pole. Fully HD ready (1920 × 1080 pixel). For 15-wire VGA cables. Without claws. Built-in depth: 34 mm		
White	**0261/22-500**	2CKA000230A0425	1
Black	**0261/23-500**	2CKA000230A0426	1
	**USB connection unit** Busch-Jaeger insert Compatible with Levit cover plates Art. No. 5014H-A00040 .. With screw-type terminals and strain relief. For mobile devices, such as printers, scanners, USB flash drives, and digital cameras. USB-type A, USB 2.0 compatible. For 5-wire USB cables. Without claws. Built-in depth: 34 mm		
White	**0261/12-500**	2CKA000230A0419	1
Black	**0261/13-500**	2CKA000230A0420	1
	**HDMI connection unit** Busch-Jaeger insert Compatible with Levit cover plates Art. No. 5014H-A00040 .. With screw-type terminals and strain relief. To link high-definition digital audio and video data from e.g. SAT-receiver, or DVD-/Blue-Ray-player to plasma-type, LCD or LED TVs / screens. HDMI-type A, 3D-compatible. Fully HD ready (1920 × 1080 pixel). For 20-wire HDMI cables. Without claws. Built-in depth: 34 mm		
White	**0261/32-500**	2CKA000230A0431	1
Black	**0261/33-500**	2CKA000230A0432	1
	**Stereo loudspeaker connection box** Busch-Jaeger insert Compatible with Levit cover plates Art. No. 5014H-A00040 .. With screwless terminals (with screw-type terminals on the back). 4 connection terminals. Maximum cable diameter: 10 mm². Polarity is indicated by color. With claws.		
White	**0248/04-101-500**	2CKA000230A0464	1
Black	**0248/05-101**	2CKA000230A0404	1

Product	Article-No.	Order-No.	Pack/Qty
	Cover plate for USB / HDMI / VGA / stereo connection unit Compatible with Busch-Jaeger inserts for USB / HDMI / VGA / stereo connection units		
White	**5014H-A00040 03**	2CHH290040A4003	10
Grey	**5014H-A00040 16**	2CHH290040A4016	10
Ivory	**5014H-A00040 17**	2CHH290040A4017	10
Macchiato	**5014H-A00040 18**	2CHH290040A4018	10
Anthracite	**5014H-A00040 63**	2CHH290040A4063	10
Yellow	**5014H-A00040 64**	2CHH290040A4064	10
Red	**5014H-A00040 65**	2CHH290040A4065	10
Orange	**5014H-A00040 66**	2CHH290040A4066	10
Green	**5014H-A00040 67**	2CHH290040A4067	10
Pearl	**5014H-A00040 68**	2CHH290040A4068	10
Steel	**5014H-A00040 69**	2CHH290040A4069	10
Silver	**5014H-A00040 70**	2CHH290040A4070	10
	**Double USB charge** Individual packaging for retail To charge and supply power to mobil devices through a micro-USB cable. With 2 type-A USB ports. 2 devices can be charged simultaneously. Short-circuit protection. With electronic overload protection. Nominal voltage: 100 - 230 V~, +10%/-10% Secondary winding voltage: 5 V~, +5%/-5% Rated frequency: 50 Hz - 60 Hz Switching load: 1 port Nominal current: 3000 mA Switching load: 2 ports Nominal current: 1500 mA Protection class: IP 20, SELV Operating temperature: 5 °C to 40 °C Dimensions (Height × Width × Depth): 71 mm × 71 mm × 43 mm Built-in depth: 32 mm		
White	**5014H-A00040 03W**	2CHH290040A6003	12
Grey	**5014H-A00040 16W**	2CHH290040A6016	12
Ivory	**5014H-A00040 17W**	2CHH290040A6017	12
Macchiato	**5014H-A00040 18W**	2CHH290040A6018	12
Anthracite	**5014H-A00040 63W**	2CHH290040A6063	12
Yellow	**5014H-A00040 64W**	2CHH290040A6064	12
Red	**5014H-A00040 65W**	2CHH290040A6065	12
Orange	**5014H-A00040 66W**	2CHH290040A6066	12
Green	**5014H-A00040 67W**	2CHH290040A6067	12
Pearl	**5014H-A00040 68W**	2CHH290040A6068	12
Steel	**5014H-A00040 69W**	2CHH290040A6069	12
Silver	**5014H-A00040 70W**	2CHH290040A6070	12

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Product	Article-No.	Order-No.	Pack/Qty
	**Busch Btconnect Radio** Busch-Jaeger insert Compatible with Levit cover plates Art. No. 3299H-A40200 .. RDS stereo radio with display, for flush-mounted installation. With Bluetooth interface to play from mobile devices. Receive frequency: 87.50 - 108.00 MHz. With external AUX input. For mono/stereo operation, 8 radio stations storable. With time and date display. With alarm clock and snooze function. With short-time timer. With automatic switch-off function. With extension input to remote-controlled ON/OFF switches. With integrated antenna. With additional connection for external antenna. Permitted speaker impedance: 4 - 8 Ohm Can be installed into standard installation box. Bluetooth specification: 2.1 Bluetooth profiles supported: A2DP Number of stored Bluetooth connections: max. 8 Nominal voltage: 110 - 230 V~, +10%/-10% Rated frequency: 50 Hz - 60 Hz Protection class: IP 20 Operating temperature: 5°C to 40°C Dimensions (Height × Width × Depth): 71 mm × 71 mm × 47 mm Built-in depth: 32 mm		
	8217 U-500	2CKA008200A0194	1
	**Busch iNet Radio** Busch-Jaeger insert Compatible with Levit cover plates Art. No. 3299H-A40200 .. Wireless Internet radio alarm clock for flush-mounted installation. For the reception of national and international radio stations via Internet. Radio station search possible by genre. Integrated web-server for configuration and control. Remote control with smartphone via browser interface. UPnP replay function. Control via smartphone. For mono/stereo operation, 8 radio stations storable. With time and date display. With alarm function. With short-time timer. With automatic switch-off function. With extension input to remote-controlled ON/OFF switches. With integrated WLAN antenna. WLAN Standards: IEEE 802.11b / IEEE 802.11g. WLAN security: WPA / WPA2. Permitted speaker impedance: 4 - 8 Ohm To be installed in conjunction with standard mounting boxes. Nominal voltage: 110 - 230 V~, +10%/- 10% Rated frequency: 50 Hz - 60 Hz Protection class: IP 20 Operating temperature: 5 °C to 40 °C Dimensions (Height × Width × Depth): 71 mm × 71 mm × 49 mm Built-in depth: 33 mm		
	8216 U-500	2CKA008200A0153	1

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-DigitalRadio** Busch-Jaeger insert Compatible with Levit cover plates Art. No. 3299H-A40200 .. RDS stereo radio with display for flush-mounted installation Receive frequency: 87.50 - 108.00 MHz. for mono/stereo operation. 8 radio stations storable. Clock. With alarm function. With automatic switch-off function. With extension input to remote-controlled ON/OFF switches. With integrated antenna. With additional connection for external antenna. Permitted speaker impedance: 4 - 8 Ohm To be installed in conjunction with standard mounting boxes. Nominal voltage: 230 V~, +10%/-10% Rated frequency: 50 Hz - 60 Hz Protection class: IP 20 Operating temperature: 5°C to 40°C Dimensions (Height × Width × Depth): 71 mm × 71 mm × 49 mm Built-in depth: 34 mm		
	8215 U-500	2CKA008200A0182	1
	**Cover plate for FM radio /** **Busch-Radio iNet / BT radio inserts** For Busch-Jaeger inserts: - Busch Btconnect Radio 2CKA008200A0194 - Busch-DigitalRadio 2CKA008200A0182 - Busch iNet Radio 2CKA008200A0153 If installing into a separate 1gang frame, please use the specialized frames with a 55 × 55 internal window (Art. No. 3901H-A05510 ..) If installing into a multigang frame, use standard frames with the corresponding number of gangs (Art. No. 3901H-A050..) along with specialized cover plates with a 55 × 55 internal window (Art. No. 3901H-A00..55..), external or internal depending on the position of the insert in the frame. Also available: 2gang frames with a 55 × 55 internal window (Art. No. 3901H-A05520 ..)		
White	**3299H-A40200 03**	2CHH704020A4003	5
Grey	**3299H-A40200 16**	2CHH704020A4016	5
Ivory	**3299H-A40200 17**	2CHH704020A4017	5
Macchiato	**3299H-A40200 18**	2CHH704020A4018	5
Anthracite	**3299H-A40200 63**	2CHH704020A4063	5
Yellow	**3299H-A40200 64**	2CHH704020A4064	5
Red	**3299H-A40200 65**	2CHH704020A4065	5
Orange	**3299H-A40200 66**	2CHH704020A4066	5
Green	**3299H-A40200 67**	2CHH704020A4067	5
Pearl	**3299H-A40200 68**	2CHH704020A4068	5
Steel	**3299H-A40200 69**	2CHH704020A4069	5
Silver	**3299H-A40200 70**	2CHH704020A4070	5

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Product	Article-No.	Order-No.	Pack/Qty
	**Loudspeaker insert, 5 cm** Busch-Jaeger insert Compatible with Levit cover plates Art. No. 5016H-A00075 .. For digital radio 8215 U-500 For Busch-Radio iNet 8216 U-500 For Busch-Radio BTconnect 8217 U-500 With broadband characteristics. With flat plug connector. Incl. speaker connection cable. Nominal power: 2 W (RMS) Frequency range: 200 - 20000 Hz Impedance: 4 Ohm Protection class: IP 20, SELV Mounting depth: 32 mm		
	8223 U-500	2CKA008200A0183	1

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate for loudspeaker** For Busch-Jaeger loudspeaker insert: 2CKA008200A0183 If installing into a separate 1gang frame, please use the specialized frames with a 55 × 55 internal window (Art. No. 3901H-A05510 ..) If installing into a multigang frame, use standard frames with the corresponding number of gangs (Art. No. 3901H-A050..) along with specialized cover plates with a 55 × 55 internal window (Art. No. 3901H-A00..55..): external or internal depending on the position of the insert in the frame. Also available: 2gang frames with a 55 × 55 internal window (Art. No. 3901H-A05520 ..)		
White	**5016H-A00075 03**	2CHH660075A4003	5
Grey	**5016H-A00075 16**	2CHH660075A4016	5
Ivory	**5016H-A00075 17**	2CHH660075A4017	5
Macchiato	**5016H-A00075 18**	2CHH660075A4018	5
Anthracite	**5016H-A00075 64**	2CHH660075A4064	5
Yellow	**5016H-A00075 65**	2CHH660075A4065	5
Red	**5016H-A00075 66**	2CHH660075A4066	5
Orange	**5016H-A00075 67**	2CHH660075A4067	5
Green	**5016H-A00075 63**	2CHH660075A4063	5
Pearl	**5016H-A00075 68**	2CHH660075A4068	5
Steel	**5016H-A00075 69**	2CHH660075A4069	5
Silver	**5016H-A00075 70**	2CHH660075A4070	5

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Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**Rotary / push-button dimmer, 60–600W** Individual packaging for retail Turn/push button switch. For incandescent lamps and 230 V~ tungsten halogen lamps. With adjustable minimum brightness. Nominal voltage: 230 V ~, +10%/-10%. Rated frequency: 50 Hz. Nominal power: 60-600 W. Can be used in circuits with several switches. Only in conjunction with mounting boxes according to DIN 49073 Part 1. With terminal to connect components without mains voltage.		
White/Ice white	**3294H-A02247 01W**	2CHH942247A6001	14
White/White	**3294H-A02247 03W**	2CHH942247A6003	14
Grey/White	**3294H-A02247 16W**	2CHH942247A6016	14
Ivory/White	**3294H-A02247 17W**	2CHH942247A6017	14
Macchiato/White	**3294H-A02247 18W**	2CHH942247A6018	14
White/ Smoke black	**3294H-A02247 62W**	2CHH942247A6062	14
Anthracite/ Smoke Black	**3294H-A02247 63W**	2CHH942247A6063	14
Yellow/ Smoke black	**3294H-A02247 64W**	2CHH942247A6064	14
Red/ Smoke black	**3294H-A02247 65W**	2CHH942247A6065	14
Orange/ Smoke black	**3294H-A02247 66W**	2CHH942247A6066	14
Green/ Smoke black	**3294H-A02247 67W**	2CHH942247A6067	14
Pearl/ Ice White	**3294H-A02247 68W**	2CHH942247A6068	14
Steel/ Smoke black	**3294H-A02247 69W**	2CHH942247A6069	14
Silver/ Smoke black	**3294H-A02247 70W**	2CHH942247A6070	14
	**Rotary dimmer insert, RL, 200–700 W** Busch-Jaeger insert Compatible with Levit cover plates Art. No. 3294H-A00123 .. With rotary control, two-way switch. For incandescent lamps, 230 V tungsten halogen lamps and low-volt halogen lamps with conventional transformer. With short-circuit and overload protection. With adjustable minimum brightness. Without claws. Nominal voltage: 230 V~, +10%/-10%. Rated frequency: 50 Hz. Nominal power: 200 - 700 W/VA. Take in account ~20% transformer loss for conventional transformers. Can be used in circuits with several switches. Only in conjunction with mounting boxes according to DIN 49073 Part 1. Recommended for 1gang installation.		
	6520 U-500	2CKA006520A0227	1

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate for rotary dimmer** Compatible with Busch-Jaeger rotary dimmer inserts: 2CKA006520A0227 2CKA006517A0018 2CKA006512A0345 2CKA006513A0588 2CKA006513A0590 2CKA006599A2987 2CKA006599A3025 2CKA006599A2988 2CKA006599A3026		
White/Ice white	**3294H-A00123 01**	2CHH940123A4001	5
White/White	**3294H-A00123 03**	2CHH940123A4003	5
Grey/White	**3294H-A00123 16**	2CHH940123A4016	5
Ivory/White	**3294H-A00123 17**	2CHH940123A4017	5
Macchiato/White	**3294H-A00123 18**	2CHH940123A4018	5
White/ Smoke black	**3294H-A00123 62**	2CHH940123A4062	5
Anthracite/ Smoke Black	**3294H-A00123 63**	2CHH940123A4063	5
Yellow/ Smoke black	**3294H-A00123 64**	2CHH940123A4064	5
Red/ Smoke black	**3294H-A00123 65**	2CHH940123A4065	5
Orange/ Smoke black	**3294H-A00123 66**	2CHH940123A4066	5
Green/ Smoke black	**3294H-A00123 67**	2CHH940123A4067	5
Pearl/ Ice White	**3294H-A00123 68**	2CHH940123A4068	5
Steel/ Smoke black	**3294H-A00123 69**	2CHH940123A4069	5
Silver/ Smoke black	**3294H-A00123 70**	2CHH940123A4070	5

Levit®
Dimmers

Product	Article-No.	Order-No.	Pack/Qty



Rotary dimmer insert, LED, 2–400 W
Busch-Jaeger insert
Compatible with Levit cover plates
Art. No. 3294H-A00123 ..
With rotary control, two-way switch and soft-catch.
2-wire connection.
For dimmable
Retrofit-LEDs (LEDi).
For dimmable
Retrofit-LEDs (LEDi) with conventional or
or electronic transformers.
For incandescent lamps, tungsten halogen lamps 230V and low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps.
Mixed operation of LEDi with conventional loads possible.
With manually adjustable operating mode:
trailing / leading edge control.
With adjustable minimum and maximum brightness.
Low-noise level by MOSFET transistors.
With short-circuit and overload protection (electronic fuse).
Nominal voltage: 230 V~, +10%/-10%
Rated frequency: 50 Hz/60 Hz
Nominal power: 2 - 100 W/VA
(Leading edge control)
Nominal power: 2 - 400 W/VA
(Trailing edge control)
Protection class: IP 20
Operating temperature: 0 °C to 35 °C.
Take ~5% transformer loss into account in case of electronic transformers. Take in account ~20% transformer loss for conventional transformers. Only in conjunction with mounting boxes according to Din 49073 Part 1.
Can be used in circuits with several switches.

	6523 UR-103-500	2CKA006512A0345	1



END OF LIFE

Universal dimmer insert
Busch-Jaeger insert
Compatible with Levit cover plates
Art. No. 3294H-A00123 ..
With rotary knob.
With incremental sensor for universal operation.
For incandescent lamps, 230V~ tungsten halogen lamps and low-voltage halogen lamps with conventional or electronic transformers.
With short-circuit and overload protection.
Nominal voltage: 230 V~, +10%/-10%.
Rated frequency: 50 Hz/60 Hz.
Nominal power: 60 - 420 W/VA.
Take ~5% transformer loss into account in case of electronic transformers. Take in account ~20% transformer loss into account for conventional transformers. Only in conjunction with mounting boxes according to Din 49073 Part 1. Cannot be combined with a two-way switch, connection type 6.
Can be used with several switches.

	6591 U-101-500	2CKA006513A0588	1

Product	Article-No.	Order-No.	Pack/Qty



END OF LIFE

Extension for operation of universal dimmer
Busch-Jaeger insert
Compatible with Levit cover plates
Art. No. 3294H-A00123 ..
Extension to be used for operation of universal dimmer Art. No. 6591 U-101-500.
Rotary control element with incremental sensor.
To one insert 6591 U-101-500 can be connected a maximum of 5 extensions.
Nominal voltage: 230 V~, +10%/-10%
Rated frequency: 50 Hz/60 Hz

	6592 U-500	2CKA006513A0590	1



Rotary dimmer, DALI, TW
Busch-Jaeger insert
Compatible with Levit cover plates
Art. No. 3294H-A00123 ..
For broadcast service (via central telegram).
For switching and dimming up to 37 DALI devices according to IEC 62386 (such as electronic ballasts and transformers with DALI-interface).
With rotary knob and ON/OFF push operation.
Protection against incorrect polarity.
For changing the color temperature of lamps “tunable white”, which meet DALI Standard IEC 62386-209 (Device Type 8).
Color temperature can then be set between 2,700 K - 6,500 K.
Brightness power-on level and background brightness level adjustable, buffered.
With integrated LED illumination for orientation.
Up to 5 devices are connectable
in parallel in passive mode.
Max. power consumption: 15 mA.
Not suitable for combining with other DALI sensors or central units of other manufacturers.
For the generation of the DALI voltage a power supply according to IEC 62386 is required; e.g. from Tridonic, Philips, Helvar or BJE, Art. No. 2116/11 U.
Max. DALI cable length: 300 m
(diameter 1,5–2,5 mm²).
Protection class: IP 20
Operating temperature: 0 °C to 35 °C

	2116 U	2CKA006599A3025	1

Levit®
Dimmers

Product	Article-No.	Order-No.	Pack/Qty
 END OF LIFE	**Rotary dimmer DALI** Busch-Jaeger insert Compatible with Levit cover plates Art. No. 3294H-A00123 .. For broadcast service (via central telegram). For switching and dimming up to 37 DALI devices according to IEC 62386 (such as electronic ballasts and transformers with DALI-interface). With rotary knob and ON/OFF push operation. Protection against incorrect polarity. Brightness power-on level and background brightness level adjustable, buffered. With integrated LED illumination for orientation. Up to 5 devices are connectable in parallel in passive mode Max. power consumption: 15 mA. Not suitable for combining with other DALI sensors or central units of other manufacturers. For the generation of the DALI voltage a power supply according to IEC 62386 is required; e.g. from Tridonic, Philips, Helvar or BJE, Art. No. 2117/11 U. Max. DALI cable length: 300 m (diameter 1,5–2,5 mm²). Protection class: IP 20 Operating temperature: 0 °C to 35 °C		
	2117 U-500	2CKA006599A2987	1
 END OF LIFE	**Rotary dimmer, DALI, Power** Busch-Jaeger insert Compatible with Levit cover plates Art. No. 3294H-A00123 .. For broadcast service (via central telegram). With integrated DALI power adapter. For switching and dimming up to 37 DALI devices according to IEC 62386 (such as electronic ballasts and transformers with DALI-interface). With rotary knob and ON/OFF push operation. With short-circuit and overload protection (electronic fuse). Brightness power-on level and background brightness level adjustable, buffered. With integrated LED illumination for orientation. Up to 5 devices are connectable in parallel in passive mode Connectable in parallel up to 3 devices in active mode. Not suitable for combining with other DALI sensors or central units of other manufacturers. Voltage DALI: 15.5 V = Max. output current: 75 mA Power consumption: < 2.5 W Max. number of DALI-units: - in the case of one active DALI potentiometer: 37 - in the case of 3 active DALI potentiometers in parallel connection: 111 Active mode: the potentiometer supplies the power to other DALI-devices and the control units. Passive mode, without mains power: a potentiometer in a DALI cable is suitable as an additional control point. Max. DALI cable length: 300 m (diameter 1,5–2,5 mm²). Nominal voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Protection class: IP 20 Operating temperature: 0 °C to 35 °C		
	2117/11 U-500	2CKA006599A2988	1

Product	Article-No.	Order-No.	Pack/Qty
 END OF LIFE	**Rotary dimmer DALI, Power, TW** Busch-Jaeger insert Compatible with Levit cover plates Art. No. 3294H-A00123 .. For broadcast service (via central telegram). With integrated DALI power adapter. For switching and dimming up to 37 DALI devices according to IEC 62386 (such as electronic ballasts and transformers with DALI-interface). With rotary knob and ON/OFF push operation. For changing the color temperature of lamps “tunable white”, which meet DALI Standard IEC 62386-209 (Device Type 8). Color temperature can then be set between 2,700 K - 6,500 K. With short-circuit and overload protection (electronic fuse). Brightness power-on level and background brightness level adjustable, buffered. With integrated LED illumination for orientation. Up to 5 devices are connectable in parallel in passive mode. Connectable in parallel up to 3 devices in active mode. Not suitable for combining with other DALI sensors or central units of other manufacturers. Voltage DALI: 15.5 V = Max. output current: 75 mA Power consumption: < 2.5 W Max. number of DALI-units: in the case of one active DALI potentiometer: 37 in the case of 3 active DALI potentiometers in parallel connection: 111 Active mode: the potentiometer supplies the necessary power to other DALI-devices and the control units. Passive mode, without mains power: a potentiometer in a DALI cable is suitable as an additional control point. Max. DALI cable length: 300 m (diameter 1,5–2,5 mm²). Nominal voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Protection class: IP 20 Operating temperature: 0 °C to 35 °C		
	2116/11 U	2CKA006599A3026	1

Levit®
Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**Dimmer insert RLC, 60–420 W** Busch-Jaeger insert Button operation Compatible with Levit control element for dimmer switches Art No. 3299H-A00100 .. With light-level memory and intelligence for universal operation. Selectable Soft-ON/OFF function and memory function. Capacity expansion with a power module 6594 U up to 735 W/VA possible. For incandescent lamps, 230V~ tungsten halogen lamps and low-voltage halogen lamps with conventional or electronic transformers. With short-circuit and overload protection. Nominal voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Nominal power: 60 - 420 W/VA		
	6593 U-500	2CKA006590A0171	1

Product	Article-No.	Order-No.	Pack/Qty
	**Dimmer insert 1–10 V** Busch-Jaeger insert Button operation Suitable for Levit control element for touch dimmers Art. No. 3299H-A00100 .. 3 wire connection. For controlling ballast units for fluorescent lamps with control output 1-10 V DC, control current max. 50 mA= To control LEDs using electronic ballasts Nominal voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Nominal power: 700 W/VA		
END OF LIFE			
	6550 U-101-500	2CKA006550A0042	1

	Control element for touch dimmers Busch-Jaeger dimmer inserts for touch dimmers: 2CKA006590A0171 2CKA006512A0323 2CKA006550A0042		
White/Ice white	**3299H-A00100 01**	2CHH700100A4001	5
White/White	**3299H-A00100 03**	2CHH700100A4003	5
Grey/White	**3299H-A00100 16**	2CHH700100A4016	5
Ivory/White	**3299H-A00100 17**	2CHH700100A4017	5
Macchiato/White	**3299H-A00100 18**	2CHH700100A4018	5
White/ Smoke black	**3299H-A00100 62**	2CHH700100A4062	5
Anthracite/ Smoke Black	**3299H-A00100 63**	2CHH700100A4063	5
Yellow/ Smoke black	**3299H-A00100 64**	2CHH700100A4064	5
Red/ Smoke black	**3299H-A00100 65**	2CHH700100A4065	5
Orange/ Smoke black	**3299H-A00100 66**	2CHH700100A4066	5
Green/ Smoke black	**3299H-A00100 67**	2CHH700100A4067	5
Pearl/ Ice White	**3299H-A00100 68**	2CHH700100A4068	5
Steel/ Smoke black	**3299H-A00100 69**	2CHH700100A4069	5
Silver/ Smoke black	**3299H-A00100 70**	2CHH700100A4070	5

Levit®
Thermostats

Product	Article-No.	Order-No.	Pack/Qty
	**Universal thermostat with rotary knob, 16A** Individual packaging for retail Can be used for heating systems and for underfloor heating (gas, water, electricity) Linear temperature setting (1 to 5 scale) Indication of output status by two-color LED. Two push buttons on the panel (with light ndication): - power On/Off - manual temperature reduction As room temperature controller: - temperature range: +13 ° C to +27 ° C - adjustable manual temperature reduction from 2 °C to 8 °C - hysteresis: +/- 0,25 °C As floor thermostat: - external temperature sensor required (heated floor sensor), Art. No. 3292U-A90100 - temperature range +15 °C to +48 °C - adjustable manual temperature reduction from 4 °C to 16 °C - hysteresis: +/- 0,5 °C Nominal current: 16 A Nominal voltage: 230 V ~		
White/Ice white	**3292H-A00003 01W**	2CHH920003A6001	12
White/White	**3292H-A00003 03W**	2CHH920003A6003	12
Grey/White	**3292H-A00003 16W**	2CHH920003A6016	12
Ivory/White	**3292H-A00003 17W**	2CHH920003A6017	12
Macchiato/White	**3292H-A00003 18W**	2CHH920003A6018	12
White/ Smoke black	**3292H-A00003 62W**	2CHH920003A6062	12
Anthracite/ Smoke Black	**3292H-A00003 63W**	2CHH920003A6063	12
Yellow/ Smoke black	**3292H-A00003 64W**	2CHH920003A6064	12
Red/ Smoke black	**3292H-A00003 65W**	2CHH920003A6065	12
Orange/ Smoke black	**3292H-A00003 66W**	2CHH920003A6066	12
Green/ Smoke black	**3292H-A00003 67W**	2CHH920003A6067	12
Pearl/ Ice White	**3292H-A00003 68W**	2CHH920003A6068	12
Steel/ Smoke black	**3292H-A00003 69W**	2CHH920003A6069	12
Silver/ Smoke black	**3292H-A00003 70W**	2CHH920003A6070	12
	**Mech. switching unit insert for thermostats or timers** For Programmable universal thermostat (Art. No. 3292H-A10301 ..) Optional connection of external temperature sensor Art. No. 3292U-A90100 for floor heating. In the event of power failure the control unit display goes off. Operating temperature: 0 ° C to + 50 ° C Output: potential free NO relay contact with safety galvanic isolation Nominal current: 16 A (cos ϕ = 1) 3-wire connection Nominal voltage: 230 V ~		
	3292U-A00003	2CHU910003A4000	1

Product	Article-No.	Order-No.	Pack/Qty
	**Universal thermostat, control unit** For use only in conjunction with switching unit insert for thermostats or timers (Art. No. 3292U-A00003) Option to choose regulation of room temperature or heated floor temperature, as well as combined Regulated temperature: 0 °C to +50 °C Operation mode: manual, automatic, holiday, 3 time programs (each 70 marks each – min. interval 5 min; days of week 1, 2..., 7, 1-5, 6-7, 1-7) Prediction function Software switch-off Choice of heating or cooling mode Min. and max. floor temperature Limits for adjustable temperature Temperature offset Optional response to control by external contact Anti-freeze protection Valves protection Inversion of output function Operating hours counter Automatic summer/winter time change Push-buttons lock Adaptive control Display brightness and contrast adjustment Temperature selection sensor Language selection: Russian, English, Czech Power reserve: approx. 90 days (rechargeable Li cell) The display is lit only when supplied with 230 V ~ Operating temperature: 0 °C to +50 °C Floor temperature sensor (Art. No. 3292U-A90100) must be ordered separately		
White/Ice white	**3292H-A10301 01**	2CHH911031A4001	1
White/White	**3292H-A10301 03**	2CHH911031A4003	1
Grey/White	**3292H-A10301 16**	2CHH911031A4016	1
Ivory/White	**3292H-A10301 17**	2CHH911031A4017	1
Macchiato/White	**3292H-A10301 18**	2CHH911031A4018	1
White/ Smoke black	**3292H-A10301 62**	2CHH911031A4062	1
Anthracite/ Smoke Black	**3292H-A10301 63**	2CHH911031A4063	1
Yellow/ Smoke black	**3292H-A10301 64**	2CHH911031A4064	1
Red/ Smoke black	**3292H-A10301 65**	2CHH911031A4065	1
Orange/ Smoke black	**3292H-A10301 66**	2CHH911031A4066	1
Green/ Smoke black	**3292H-A10301 67**	2CHH911031A4067	1
Pearl/ Ice White	**3292H-A10301 68**	2CHH911031A4068	1
Steel/ Smoke black	**3292H-A10301 69**	2CHH911031A4069	1
Silver/ Smoke black	**3292H-A10301 70**	2CHH911031A4070	1

Levit®
Thermostats

Product	Article-No.	Order-No.	Pack/Qty
	**Floor heating temperature sensor** For universal thermostat with rotary knob and programmable thermostat Sensor element: PTC thermistor, Resistance: 2 kOhm at 25 °C Cable: PVC, 4 m Conductors: 2 × 0,352 Cable head: metal, Ø 6 × 18 mm IP54		
	3292U-A90100	2CHU919010A4000	1
	**Cover plate for thermostat** For insert: 2TKA00004033 If installing into a separate 1gang frame, please use the specialized frames with a 55 × 55 internal window (Art. No. 3901H-A05510 ..) If installing into a multigang frame, use standard frames with the corresponding number of gangs (Art. No. 3901H-A050..) along with specialized cover plates with a 55 × 55 internal window (Art. No. 3901H-A00..55..): external or internal depending on the position of the insert in the frame. Also available: 2gang frames with a 55 × 55 internal window (Art. No. 3901H-A05520 ..)		
White	**3299H-A40100 03**	2CHH704010A4003	5
Grey	**3299H-A40100 16**	2CHH704010A4016	5
Ivory	**3299H-A40100 17**	2CHH704010A4017	5
Macchiato	**3299H-A40100 18**	2CHH704010A4018	5
Anthracite	**3299H-A40100 64**	2CHH704010A4064	5
Yellow	**3299H-A40100 65**	2CHH704010A4065	5
Red	**3299H-A40100 66**	2CHH704010A4066	5
Orange	**3299H-A40100 67**	2CHH704010A4067	5
Green	**3299H-A40100 63**	2CHH704010A4063	5
Pearl	**3299H-A40100 68**	2CHH704010A4068	5
Steel	**3299H-A40100 69**	2CHH704010A4069	5
Silver	**3299H-A40100 70**	2CHH704010A4070	5

Levit®
Timers

Product	Article-No.	Order-No.	Pack/Qty
	**Relay switch for timers** For programmable time switch (Art. No. 3292H-A20301 ..) Option to connect voltage free contact for remote control. In the event of power failure the control unit display goes off. Operating temperature: 0 °C to + 50 °C Output: with galvanic isolation dry relay contact 2,300 W for resistive load (AC-1), 750 W for incandescent lamps 350 V for ballast units with control 1-10 V (for example, incandescent lamps or LEDs) 3-wire connection Nominal voltage: 230 V ~		
	3292U-A00013	2CHU910013A4000	1
	**Programmable timer** For use only in conjunction with relay switch (Art. No. 3292U-A00013) Operation mode: manual, automatic, automatic Astro, timer, holiday, 3 time programs (70 time marks each – min. interval 5 min; days of week 1, 2..., 7, 1-5, 6-7, 1-7) Software switch-off Astro function (geographic coordinates, time zone, sunrise and sunset adjustment) Optional response to control by external contact Inversion of output function Operating hours counter Automatic winter/summer time change Room temperature indication Push-buttons lock Display brightness and contrast adjustment Language selection: Russian, English, Czech Power reserve: approx. 90 days (rechargeable Li cell) The display is lit only when supplied with 230 V ~ Operating temperature: 0 ° C to + 50 ° C		
White/Ice white	**3292H-A20301 01**	2CHH912031A4001	1
White/White	**3292H-A20301 03**	2CHH912031A4003	1
Grey/White	**3292H-A20301 16**	2CHH912031A4016	1
Ivory/White	**3292H-A20301 17**	2CHH912031A4017	1
Macchiato/White	**3292H-A20301 18**	2CHH912031A4018	1
White/ Smoke black	**3292H-A20301 62**	2CHH912031A4062	1
Anthracite/ Smoke Black	**3292H-A20301 64**	2CHH912031A4064	1
Yellow/ Smoke black	**3292H-A20301 65**	2CHH912031A4065	1
Red/ Smoke black	**3292H-A20301 66**	2CHH912031A4066	1
Orange/ Smoke black	**3292H-A20301 67**	2CHH912031A4067	1
Green/ Smoke black	**3292H-A20301 63**	2CHH912031A4063	1
Pearl/ Ice White	**3292H-A20301 68**	2CHH912031A4068	1
Steel/ Smoke black	**3292H-A20301 69**	2CHH912031A4069	1
Silver/ Smoke black	**3292H-A20301 70**	2CHH912031A4070	1

Product	Article-No.	Order-No.	Pack/Qty
	**Short-time timer insert** Busch-Jaeger insert Countdown timer For use with Levit cover plate Art. No. 3299H-A40100 .. For time-programmed switching off of electrical consumers. With push-buttons. Min. switch-off delay: 1 second Max. switch-off delay: 9:59:59 hours Nominal voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 1 Normally open contact Nominal current: 10 A / cos ϕ 1 Nominal power: 2300 VA Operating temperature: 0 °C to 35 °C		
	6465 U-101-500	2CKA006410A0393	1
	**CO_2 Busch Raumluftsensor® room sensor** Busch-Jaeger insert For controlling the incoming fresh air in rooms by means of opening or switching of windows/fans. For use with Levit cover plate Art. No. 3299H-A40100 .. With display for carbon dioxide, humidity, temperature and air pressure. Setting values: carbon dioxide 800 ppm ... 1500 ppm, humidity 40% – 95%. With two zero-potential relay contacts. Nominal voltage: 230 V~ Nominal current 6 A cos ϕ = 1 Without claw fixation		
	1091 U-500	2CKA001032A0518	1
	**Cover plate for Short-time timer / CO_2 sensor** For Busch-Jaeger inserts: - Comfort timer control element 2CKA006410A0399 - Short-time timer insert 2CKA006410A0393 - CO_2 Busch Raumluftsensor® room sensor 2CKA001032A0518 If installing into a separate 1gang frame, please use the specialized frames with a 55 × 55 internal window (Art. No. 3901H-A05510 ..) If installing into a multigang frame, use standard frames with the corresponding number of gangs (Art. No. 3901H-A050..) along with specialized cover plates with internal window 55 × 55 (Art. No. 3901H-A00..55..): external or internal depending on the position of the insert in the frame. Also available: 2gang frames with a 55 × 55 internal window (Art. No. 3901H-A05520 ..)		
White	**3299H-A40100 03**	2CHH704010A4003	5
Grey	**3299H-A40100 16**	2CHH704010A4016	5
Ivory	**3299H-A40100 17**	2CHH704010A4017	5
Macchiato	**3299H-A40100 18**	2CHH704010A4018	5
Anthracite	**3299H-A40100 63**	2CHH704010A4063	5
Yellow	**3299H-A40100 64**	2CHH704010A4064	5
Red	**3299H-A40100 65**	2CHH704010A4065	5
Orange	**3299H-A40100 66**	2CHH704010A4066	5
Green	**3299H-A40100 67**	2CHH704010A4067	5
Pearl	**3299H-A40100 68**	2CHH704010A4068	5
Steel	**3299H-A40100 69**	2CHH704010A4069	5
Silver	**3299H-A40100 70**	2CHH704010A4070	5

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Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Relay switch for movement detector insert** For motion detectors Art. No. 3299H-A02182 .. Operating temperature: -10 °C to +55 °C 2,300 V for incandescent lamps, 1,750 V for low-voltage halogen lamps with conventional or electronic transformers. 500 VA / 64 mFd for fluorescent lamps 3-wire connection Nominal voltage: 230 V ~		
	3299U-A00006	2CHU700006A4000	1
	**2-channel relay switch for movement detector** For motion detectors Art. No. 3299H-A02182 .. Contact 2 is closed approx. 3 min after contact 1 is closed when movement is detected Contact 2 opens approx. 5 min after contact 1 is opened Operating temperature: -10 °C to +55 °C Nominal current: 3 A (cos ϕ > 0.8) For compact fluorescent lamps (energy saving lamps) and LED lights 4-wire connection Nominal voltage: 230 V ~		
	3299U-A00007	2CHU700007A4000	1
	**TRIAC movement detector insert** For motion detectors Art. No. 3299H-A02182 .. Brightness is dimmed 5 seconds before switch-off (only when switch-off delay is set to > 30 seconds) Operating temperature: -10 °C to +55 °C 40 – 300 W for incandescent lamps No parallel connection possible 2-wire connection Nominal voltage: 230 V ~		
	3299U-A00001	2CHU700001A4000	1

Product	Article-No.	Order-No.	Pack/Qty
	**Movement detector** For the following inserts: - relay switch for motion detector 2CHU700006A4000 - 2-channel relay switch for motion detector 2CHU700007A4000 - TRIAC for motion detector 2CHU700001A4000 Detection range: 180° Adjustable setting on the back of the cover panel: illuminance (1-1000 Lx), sensitivity, switch-off delay (5 seconds - 10 minutes, or 15/30/45/60 minutes after pressing in-built button)		
White/Ice white	**3299H-A02182 01**	2CHH702182A4001	1
White/White	**3299H-A02182 03**	2CHH702182A4003	1
Grey/White	**3299H-A02182 16**	2CHH702182A4016	1
Ivory/White	**3299H-A02182 17**	2CHH702182A4017	1
Macchiato/White	**3299H-A02182 18**	2CHH702182A4018	1
White/ Smoke black	**3299H-A02182 62**	2CHH702182A4062	1
Anthracite/ Smoke Black	**3299H-A02182 63**	2CHH702182A4063	1
Yellow/ Smoke black	**3299H-A02182 64**	2CHH702182A4064	1
Red/ Smoke black	**3299H-A02182 65**	2CHH702182A4065	1
Orange/ Smoke black	**3299H-A02182 66**	2CHH702182A4066	1
Green/ Smoke black	**3299H-A02182 67**	2CHH702182A4067	1
Pearl/ Ice White	**3299H-A02182 68**	2CHH702182A4068	1
Steel/ Smoke black	**3299H-A02182 69**	2CHH702182A4069	1
Silver/ Smoke black	**3299H-A02182 70**	2CHH702182A4070	1

Levit®

Blind control elements

Product	Article-No.	Order-No.	Pack/Qty
	**Blind switch with locking keys** Individual packaging for retail With mechanical button interlock Nominal voltage: 250 V ~ Nominal current: 10 AX Screwless terminals		
White/Ice white	**3559H-A89445 01W**	2CHH598945A6001	15
White/White	**3559H-A89445 03W**	2CHH598945A6003	15
Grey/White	**3559H-A89445 16W**	2CHH598945A6016	15
Ivory/White	**3559H-A89445 17W**	2CHH598945A6017	15
Macchiato/White	**3559H-A89445 18W**	2CHH598945A6018	15
White/ Smoke black	**3559H-A89445 62W**	2CHH598945A6062	15
Anthracite/ Smoke Black	**3559H-A89445 63W**	2CHH598945A6063	15
Yellow/ Smoke black	**3559H-A89445 64W**	2CHH598945A6064	15
Red/ Smoke black	**3559H-A89445 65W**	2CHH598945A6065	15
Orange/ Smoke black	**3559H-A89445 66W**	2CHH598945A6066	15
Green/ Smoke black	**3559H-A89445 67W**	2CHH598945A6067	15
Pearl/ Ice White	**3559H-A89445 68W**	2CHH598945A6068	15
Steel/ Smoke black	**3559H-A89445 69W**	2CHH598945A6069	15
Silver/ Smoke black	**3559H-A89445 70W**	2CHH598945A6070	15
	**Busch-Jalousiecontrol® II insert** Busch-Jaeger insert Compatible with Levit cover plates Art. No. 3299H-A00110 .. Suitable for actuators of blinds, roller shutters and awning with mechanical or electronic limit switch. Two additional 230V extension inputs for group/central control using the operation mode switch: Normal operation, Louvre positioning, Central control, Blind position programming Party function (disables the control unit in conjunction with the Busch-Jalousiecontrol® II blind control element Switch-off delay: 3 minutes Nominal voltage: 250 V ~, +10% / -10% Rated frequency: 50 Hz Outputs: 2 NO contacts Nominal current: 3 A / cos ϕ 0.5 Nominal power: 690 VA Control and signal outputs: 2 Operating temperature: 0 °C to 35 °C		
	6411 U-500-101	2CKA006410A0378	1

Product	Article-No.	Order-No.	Pack/Qty
	**Blind switch without locking keys** Individual packaging for retail With mechanical button interlock Nominal voltage: 250 V ~ Nominal current: 10 A Screwless terminals		
White/Ice white	**3559H-A88445 01W**	2CHH598845A6001	15
White/White	**3559H-A88445 03W**	2CHH598845A6003	15
Grey/White	**3559H-A88445 16W**	2CHH598845A6016	15
Ivory/White	**3559H-A88445 17W**	2CHH598845A6017	15
Macchiato/White	**3559H-A88445 18W**	2CHH598845A6018	15
White/ Smoke black	**3559H-A88445 62W**	2CHH598845A6062	15
Anthracite/ Smoke Black	**3559H-A88445 63W**	2CHH598845A6063	15
Yellow/ Smoke black	**3559H-A88445 64W**	2CHH598845A6064	15
Red/ Smoke black	**3559H-A88445 65W**	2CHH598845A6065	15
Orange/ Smoke black	**3559H-A88445 66W**	2CHH598845A6066	15
Green/ Smoke black	**3559H-A88445 67W**	2CHH598845A6067	15
Pearl/ Ice White	**3559H-A88445 68W**	2CHH598845A6068	15
Steel/ Smoke black	**3559H-A88445 69W**	2CHH598845A6069	15
Silver/ Smoke black	**3559H-A88445 70W**	2CHH598845A6070	15
	**Busch-Jalousiecontrol®II control element** For Busch-Jalousiecontrol® II insert 2CKA006410A0378		
White/Ice white	**3299H-A00110 01**	2CHH700110A4001	1
White/White	**3299H-A00110 03**	2CHH700110A4003	1
Grey/White	**3299H-A00110 16**	2CHH700110A4016	1
Ivory/White	**3299H-A00110 17**	2CHH700110A4017	1
Macchiato/White	**3299H-A00110 18**	2CHH700110A4018	1
White/ Smoke black	**3299H-A00110 62**	2CHH700110A4062	1
Anthracite/ Smoke Black	**3299H-A00110 63**	2CHH700110A4063	1
Yellow/ Smoke black	**3299H-A00110 64**	2CHH700110A4064	1
Red/ Smoke black	**3299H-A00110 65**	2CHH700110A4065	1
Orange/ Smoke black	**3299H-A00110 66**	2CHH700110A4066	1
Green/ Smoke black	**3299H-A00110 67**	2CHH700110A4067	1
Pearl/ Ice White	**3299H-A00110 68**	2CHH700110A4068	1
Steel/ Smoke black	**3299H-A00110 69**	2CHH700110A4069	1
Silver/ Smoke black	**3299H-A00110 70**	2CHH700110A4070	1

Levit®

Blind control elements

Product	Article-No.	Order-No.	Pack/Qty
	**Comfort timer control element** Busch-Jaeger insert Compatible with Levit cover plates Art. No. 3299H-A40100 .. For Busch-Jalousiecontrol® II blind control inserts For manual and programmable control of blinds, roller blinds, awnings, lights, and electrical loads with Astro program. Individual setting of astronomical time and astronomical time of switch-off. At any moment: manual control of dimming / brightness possible. Simple settings on a highresolution display with light. Switching time / date / time are pre-set. Factory settings of switch-on time, can be individually adjusted. Automatic summer / winter time change. Time and date stored: > 10 years. Simple mode selection: manual / automatic / holiday. In combination with a Busch-Jalousiecontrol® II blind control insert, sun protection and twilight functions are available. User-adjustable sun protection function depending on temperature and brightness. User-adjustable twilight function. User-adjustable shading and air ventilation time. Up to 6 adjustable switching times can be used for each day of the week. Can be combined: astronomical and standard times for switch-on. Operating temperature: 0 °C to 35 °C		
	6455-101-500	2CKA006410A0399	1

Product	Article-No.	Order-No.	Pack/Qty
	**Cover plate for comfort timer control element, count-down timer and CO_2 sensor.** For Busch-Jaeger inserts: - Comfort timer control element 2CKA006410A0399 - Countdown timer 2CKA006410A0393 - CO_2 room sensor 2CKA001032A0518 If installing into a separate 1gang frame, please use the specialized frames with a 55 × 55 internal window (Art. No. 3901H-A05510 ..) If installing into a multigang frame, use standard frames with the corresponding number of gangs (Art. No. 3901H-A050..) along with specialized cover plates with internal window 55 × 55 (Art. No. 3901H-A00..55..): external or internal depending on the position of the insert in the frame. Also available: 2gang frames with a 55 × 55 internal window (Art. No. 3901H-A05520 ..)		
White	**3299H-A40100 03**	2CHH704010A4003	1
Grey	**3299H-A40100 16**	2CHH704010A4016	1
Ivory	**3299H-A40100 17**	2CHH704010A4017	1
Macchiato	**3299H-A40100 18**	2CHH704010A4018	1
Anthracite	**3299H-A40100 63**	2CHH704010A4063	1
Yellow	**3299H-A40100 64**	2CHH704010A4064	1
Red	**3299H-A40100 65**	2CHH704010A4065	1
Orange	**3299H-A40100 66**	2CHH704010A4066	1
Green	**3299H-A40100 67**	2CHH704010A4067	1
Pearl	**3299H-A40100 68**	2CHH704010A4068	1
Steel	**3299H-A40100 69**	2CHH704010A4069	1
Silver	**3299H-A40100 70**	2CHH704010A4070	1

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Illumination

Product	Article-No.	Order-No.	Pack/Qty
	**LED illumination insert** Built-in depth: 25 mm Screw-type terminals. Nominal current: 10 mA Nominal voltage: 230 V ~		
White	**3917U-A00050**	2CHU640050A4000	1
Blue	**3917U-A00051**	2CHU640051A4000	1
Green	**3917U-A00052**	2CHU640052A4000	1
Red	**3917U-A00053**	2CHU640053A4000	1
	LED illumination cover plate		
White	**5016H-A00070 03**	2CHH660070A4003	5
Grey	**5016H-A00070 16**	2CHH660070A4016	5
Ivory	**5016H-A00070 17**	2CHH660070A4017	5
Macchiato	**5016H-A00070 18**	2CHH660070A4018	5
Anthracite	**5016H-A00070 63**	2CHH660070A4063	5
Yellow	**5016H-A00070 64**	2CHH660070A4064	5
Red	**5016H-A00070 65**	2CHH660070A4065	5
Orange	**5016H-A00070 66**	2CHH660070A4066	5
Green	**5016H-A00070 67**	2CHH660070A4067	5
Pearl	**5016H-A00070 68**	2CHH660070A4068	5
Steel	**5016H-A00070 69**	2CHH660070A4069	5
Silver	**5016H-A00070 70**	2CHH660070A4070	5

Product	Article-No.	Order-No.	Pack/Qty
	**Lighting insert LED, 0.5 mA** To provide orientation light for button switches and push-switches in the Levit range The LED collar is red Nominal current: 0.5 mA Nominal voltage: 230 V ~		
White	**3916-05444**	2CHU165444C4000	10
Blue	**3916-05445**	2CHU165445C4000	10
Red	**3916-05443**	2CHU165443A4000	10
	**Lighting insert LED, 1 mA** To provide control light for button switches and push-switches in the Levit range The LED collar is yellow Nominal current: 0.5 mA Nominal voltage: 230 V ~		
White	**3916-10444**	2CHU161444C4000	10
	**Blind cover** For communication insert mounting plates (Art. No. 5014H-A01018 ..)		
Grey	**1116412-3**	1116412-3	25

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Frames and blind covers

Product	Article-No.	Order-No.	Pack/Qty
	**Blind cover** Individual packaging for retail		
White	**3902H-A00001 03W**	2CHH050001A6003	50
Grey	**3902H-A00001 16W**	2CHH050001A6016	50
Ivory	**3902H-A00001 17W**	2CHH050001A6017	50
Macchiato	**3902H-A00001 18W**	2CHH050001A6018	50
Anthracite	**3902H-A00001 63W**	2CHH050001A6063	50
Yellow	**3902H-A00001 64W**	2CHH050001A6064	50
Red	**3902H-A00001 65W**	2CHH050001A6065	50
Orange	**3902H-A00001 66W**	2CHH050001A6066	50
Green	**3902H-A00001 67W**	2CHH050001A6067	50
Pearl	**3902H-A00001 68W**	2CHH050001A6068	50
Steel	**3902H-A00001 69W**	2CHH050001A6069	50
Silver	**3902H-A00001 70W**	2CHH050001A6070	50
	**2gang frame** Individual packaging for retail For horizontal or vertical mounting		
White/Ice white	**3901H-A05020 01W**	2CHH015020A6001	30
White/White	**3901H-A05020 03W**	2CHH015020A6003	30
Grey/White	**3901H-A05020 16W**	2CHH015020A6016	30
Ivory/White	**3901H-A05020 17W**	2CHH015020A6017	30
Macchiato/White	**3901H-A05020 18W**	2CHH015020A6018	30
White/ Smoke black	**3901H-A05020 62W**	2CHH015020A6062	30
Anthracite/ Smoke Black	**3901H-A05020 63W**	2CHH015020A6063	30
Yellow/ Smoke black	**3901H-A05020 64W**	2CHH015020A6064	30
Red/ Smoke black	**3901H-A05020 65W**	2CHH015020A6065	30
Orange/ Smoke black	**3901H-A05020 66W**	2CHH015020A6066	30
Green/ Smoke black	**3901H-A05020 67W**	2CHH015020A6067	30
Pearl/ Ice White	**3901H-A05020 68W**	2CHH015020A6068	30
Steel/ Smoke black	**3901H-A05020 69W**	2CHH015020A6069	30
Silver/ Smoke black	**3901H-A05020 70W**	2CHH015020A6070	30

Product	Article-No.	Order-No.	Pack/Qty
	**1gang frame** Individual packaging for retail		
White/Ice white	**3901H-A05010 01W**	2CHH015010A6001	30
White/White	**3901H-A05010 03W**	2CHH015010A6003	30
Grey/White	**3901H-A05010 16W**	2CHH015010A6016	30
Ivory/White	**3901H-A05010 17W**	2CHH015010A6017	30
Macchiato/White	**3901H-A05010 18W**	2CHH015010A6018	30
White/ Smoke black	**3901H-A05010 62W**	2CHH015010A6062	30
Anthracite/ Smoke Black	**3901H-A05010 63W**	2CHH015010A6063	30
Yellow/ Smoke black	**3901H-A05010 64W**	2CHH015010A6064	30
Red/ Smoke black	**3901H-A05010 65W**	2CHH015010A6065	30
Orange/ Smoke black	**3901H-A05010 66W**	2CHH015010A6066	30
Green/ Smoke black	**3901H-A05010 67W**	2CHH015010A6067	30
Pearl/ Ice White	**3901H-A05010 68W**	2CHH015010A6068	30
Steel/ Smoke black	**3901H-A05010 69W**	2CHH015010A6069	30
Silver/ Smoke black	**3901H-A05010 70W**	2CHH015010A6070	30
	3gang frame Individual packaging for retail For horizontal or vertical mounting		
White/Ice white	**3901H-A05030 01W**	2CHH015030A6001	15
White/White	**3901H-A05030 03W**	2CHH015030A6003	15
Grey/White	**3901H-A05030 16W**	2CHH015030A6016	15
Ivory/White	**3901H-A05030 17W**	2CHH015030A6017	15
Macchiato/White	**3901H-A05030 18W**	2CHH015030A6018	15
White/ Smoke black	**3901H-A05030 62W**	2CHH015030A6062	15
Anthracite/ Smoke Black	**3901H-A05030 63W**	2CHH015030A6063	15
Yellow/ Smoke black	**3901H-A05030 64W**	2CHH015030A6064	15
Red/ Smoke black	**3901H-A05030 65W**	2CHH015030A6065	15
Orange/ Smoke black	**3901H-A05030 66W**	2CHH015030A6066	15
Green/ Smoke black	**3901H-A05030 67W**	2CHH015030A6067	15
Pearl/ Ice White	**3901H-A05030 68W**	2CHH015030A6068	15
Steel/ Smoke black	**3901H-A05030 69W**	2CHH015030A6069	15
Silver/ Smoke black	**3901H-A05030 70W**	2CHH015030A6070	15

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Frames and blind covers

Product	Article-No.	Order-No.	Pack/Qty
	4gang frame Individual packaging for retail For horizontal or vertical mounting		
White/Ice white	**3901H-A05040 01W**	2CHH015040A6001	15
White/White	**3901H-A05040 03W**	2CHH015040A6003	15
Grey/White	**3901H-A05040 16W**	2CHH015040A6016	15
Ivory/White	**3901H-A05040 17W**	2CHH015040A6017	15
Macchiato/White	**3901H-A05040 18W**	2CHH015040A6018	15
White/ Smoke black	**3901H-A05040 62W**	2CHH015040A6062	15
Anthracite/ Smoke Black	**3901H-A05040 63W**	2CHH015040A6063	15
Yellow/ Smoke black	**3901H-A05040 64W**	2CHH015040A6064	15
Red/ Smoke black	**3901H-A05040 65W**	2CHH015040A6065	15
Orange/ Smoke black	**3901H-A05040 66W**	2CHH015040A6066	15
Green/ Smoke black	**3901H-A05040 67W**	2CHH015040A6067	15
Pearl/ Ice White	**3901H-A05040 68W**	2CHH015040A6068	15
Steel/ Smoke black	**3901H-A05040 69W**	2CHH015040A6069	15
Silver/ Smoke black	**3901H-A05040 70W**	2CHH015040A6070	15
	1gang frame, 55×55 Only for the following Busch-Jaeger inserts: - Short-time timer or comfort timer control element - CO_2 room sensor - Busch Btconnect Radio - Busch-DigitalRadio - Busch iNet Radio - Loudspeaker Standard Levit frames with internal window 50×50 are not compatible with the inserts listed above		
White/Ice white	**3901H-A05510 01**	2CHH015510A4001	20
White/White	**3901H-A05510 03**	2CHH015510A4003	20
Grey/White	**3901H-A05510 16**	2CHH015510A4016	20
Ivory/White	**3901H-A05510 17**	2CHH015510A4017	20
Macchiato/White	**3901H-A05510 18**	2CHH015510A4018	20
White/ Smoke black	**3901H-A05510 62**	2CHH015510A4062	20
Anthracite/ Smoke Black	**3901H-A05510 63**	2CHH015510A4063	20
Yellow/ Smoke black	**3901H-A05510 64**	2CHH015510A4064	20
Red/ Smoke black	**3901H-A05510 65**	2CHH015510A4065	20
Orange/ Smoke black	**3901H-A05510 66**	2CHH015510A4066	20
Green/ Smoke black	**3901H-A05510 67**	2CHH015510A4067	20
Pearl/ Ice White	**3901H-A05510 68**	2CHH015510A4068	20
Steel/ Smoke black	**3901H-A05510 69**	2CHH015510A4069	20
Silver/ Smoke black	**3901H-A05510 70**	2CHH015510A4070	20

Product	Article-No.	Order-No.	Pack/Qty
	5gang frame Individual packaging for retail For horizontal or vertical mounting		
White/Ice white	**3901H-A05050 01W**	2CHH015050A6001	15
White/White	**3901H-A05050 03W**	2CHH015050A6003	15
Grey/White	**3901H-A05050 16W**	2CHH015050A6016	15
Ivory/White	**3901H-A05050 17W**	2CHH015050A6017	15
Macchiato/White	**3901H-A05050 18W**	2CHH015050A6018	15
White/ Smoke black	**3901H-A05050 62W**	2CHH015050A6062	15
Anthracite/ Smoke Black	**3901H-A05050 63W**	2CHH015050A6063	15
Yellow/ Smoke black	**3901H-A05050 64W**	2CHH015050A6064	15
Red/ Smoke black	**3901H-A05050 65W**	2CHH015050A6065	15
Orange/ Smoke black	**3901H-A05050 66W**	2CHH015050A6066	15
Green/ Smoke black	**3901H-A05050 67W**	2CHH015050A6067	15
Pearl/ Ice White	**3901H-A05050 68W**	2CHH015050A6068	15
Steel/ Smoke black	**3901H-A05050 69W**	2CHH015050A6069	15
Silver/ Smoke black	**3901H-A05050 70W**	2CHH015050A6070	15
	2gang frame, 55×55 For use when two Busch-Jaeger inserts (any of the following) need to be installed in a 2gang frame: - Short-time timer or comfort timer control element - CO_2 room sensor - Busch Btconnect Radio - Busch-DigitalRadio - Busch iNet Radio - Loudspeaker Standard Levit frames with internal window 50×50 are not compatible with the inserts listed above		
White/Ice white	**3901H-A05520 01**	2CHH015520A4001	10
White/White	**3901H-A05520 03**	2CHH015520A4003	10
Grey/White	**3901H-A05520 16**	2CHH015520A4016	10
Ivory/White	**3901H-A05520 17**	2CHH015520A4017	10
Macchiato/White	**3901H-A05520 18**	2CHH015520A4018	10
White/ Smoke black	**3901H-A05520 62**	2CHH015520A4062	10
Anthracite/ Smoke Black	**3901H-A05520 63**	2CHH015520A4063	10
Pearl/ Ice White	**3901H-A05520 68**	2CHH015520A4068	10
Steel/ Smoke black	**3901H-A05520 69**	2CHH015520A4069	10
Silver/ Smoke black	**3901H-A05520 70**	2CHH015520A4070	10

Levit®

Frames and blind covers

Product	Article-No.	Order-No.	Pack/Qty
	Cover plate for 55×55 frame, external Used to expand the internal window of a standard multigang Levit frame to 55×55. When of the inserts in a multigang installation is a Busch-Jaeger insert: - Short-time timer or comfort timer control element - CO_2 room sensor - Busch Btconnect Radio - Busch-DigitalRadio - Busch iNet Radio - Loudspeaker This product is for cases where the Busch-Jaeger insert is on the outside edge.		
White	**3901H-A00255 03**	2CHH010255A4003	20
Grey	**3901H-A00255 16**	2CHH010255A4016	20
Ivory	**3901H-A00255 17**	2CHH010255A4017	20
Macchiato	**3901H-A00255 18**	2CHH010255A4018	20
Yellow	**3901H-A00255 64**	2CHH010255A4064	20
Red	**3901H-A00255 65**	2CHH010255A4065	20
Orange	**3901H-A00255 66**	2CHH010255A4066	20
Green	**3901H-A00255 67**	2CHH010255A4067	20
Anthracite	**3901H-A00255 63**	2CHH010255A4063	20
Pearl	**3901H-A00255 68**	2CHH010255A4068	20
Steel	**3901H-A00255 69**	2CHH010255A4069	20
Silver	**3901H-A00255 70**	2CHH010255A4070	20

Product	Article-No.	Order-No.	Pack/Qty
	Cover plate for 55×55 frame, intermediate Used to expand the internal window of a standard multigang Levit frame to 55×55. When of the inserts in a multigang installation is a Busch-Jaeger insert: - Short-time timer or comfort timer control element - CO_2 room sensor - Busch Btconnect Radio - Busch-DigitalRadio - Busch iNet Radio - Loudspeaker This product is for cases where the Busch-Jaeger insert is intermediate (middle)		
White	**3901H-A00355 03**	2CHH010355A4003	20
Grey	**3901H-A00355 16**	2CHH010355A4016	20
Ivory	**3901H-A00355 17**	2CHH010355A4017	20
Macchiato	**3901H-A00355 18**	2CHH010355A4018	20
Yellow	**3901H-A00355 64**	2CHH010355A4064	20
Red	**3901H-A00355 65**	2CHH010355A4065	20
Orange	**3901H-A00355 66**	2CHH010355A4066	20
Green	**3901H-A00355 67**	2CHH010355A4067	20
Anthracite	**3901H-A00355 63**	2CHH010355A4063	20
Pearl	**3901H-A00355 68**	2CHH010355A4068	20
Steel	**3901H-A00355 69**	2CHH010355A4069	20
Silver	**3901H-A00355 70**	2CHH010355A4070	20

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Substitute panels (cover plates)

Product	Article-No.	Order-No.	Pack/Qty
	Substitute panel for push-button For 1gang switches / push-switches / one or two way		
White	**ND3559H-B431 03**	2CHH590431B8003	1
Grey	**ND3559H-B431 16**	2CHH590431B8016	1
Ivory	**ND3559H-B431 17**	2CHH590431B8017	1
Macchiato	**ND3559H-B431 18**	2CHH590431B8018	1
Anthracite	**ND3559H-B431 63**	2CHH590431B8063	1
Yellow	**ND3559H-B431 64**	2CHH590431B8064	1
Red	**ND3559H-B431 65**	2CHH590431B8065	1
Orange	**ND3559H-B431 66**	2CHH590431B8066	1
Green	**ND3559H-B431 67**	2CHH590431B8067	1
	Substitute panel for 2 push-buttons For 2gang switches / push-switches / one or two way		
White	**ND3559H-A447 03**	2CHH594470A8003	1
Grey	**ND3559H-A447 16**	2CHH594470A8016	1
Ivory	**ND3559H-A447 17**	2CHH594470A8017	1
Macchiato	**ND3559H-A447 18**	2CHH594470A8018	1
Anthracite	**ND3559H-A447 63**	2CHH594470A8063	1
Yellow	**ND3559H-A447 64**	2CHH594470A8064	1
Red	**ND3559H-A447 65**	2CHH594470A8065	1
Orange	**ND3559H-A447 66**	2CHH594470A8066	1
Green	**ND3559H-A447 67**	2CHH594470A8067	1
	**Substitute panel for thermostat / timer** For programmable universal thermostats and timers		
White	**ND3292H-A11 03**	2CHH910011A8003	1
Grey	**ND3292H-A11 16**	2CHH910011A8016	1
Ivory	**ND3292H-A11 17**	2CHH910011A8017	1
Macchiato	**ND3292H-A11 18**	2CHH910011A8018	1
Anthracite	**ND3292H-A11 63**	2CHH910011A8063	1
Yellow	**ND3292H-A11 64**	2CHH910011A8064	1
Red	**ND3292H-A11 65**	2CHH910011A8065	1
Orange	**ND3292H-A11 66**	2CHH910011A8066	1
Green	**ND3292H-A11 67**	2CHH910011A8067	1

Product	Article-No.	Order-No.	Pack/Qty
	Substitute panel for push-button with lens For 1gang switches / push-switches / one or two way		
White	**ND3559H-B443 03**	2CHH590443B8003	1
Grey	**ND3559H-B443 16**	2CHH590443B8016	1
Ivory	**ND3559H-B443 17**	2CHH590443B8017	1
Macchiato	**ND3559H-B443 18**	2CHH590443B8018	1
Anthracite	**ND3559H-B443 63**	2CHH590443B8063	1
Yellow	**ND3559H-B443 64**	2CHH590443B8064	1
Red	**ND3559H-B443 65**	2CHH590443B8065	1
Orange	**ND3559H-B443 66**	2CHH590443B8066	1
Green	**ND3559H-B443 67**	2CHH590443B8067	1
	**Substitute panel for blind switches** For blind switches (with or without locking keys)		
White	**ND3559H-A447/1 03**	2CHH594471A8003	1
Grey	**ND3559H-A447/1 16**	2CHH594471A8016	1
Ivory	**ND3559H-A447/1 17**	2CHH594471A8017	1
Macchiato	**ND3559H-A447/1 18**	2CHH594471A8018	1
Anthracite	**ND3559H-A447/1 63**	2CHH594471A8063	1
Yellow	**ND3559H-A447/1 64**	2CHH594471A8064	1
Red	**ND3559H-A447/1 65**	2CHH594471A8065	1
Orange	**ND3559H-A447/1 66**	2CHH594471A8066	1
Green	**ND3559H-A447/1 67**	2CHH594471A8067	1
	**Substitute panel for motion detectors** For motion detectors		
White	**ND3299H-A31 03**	2CHH700031A8003	1
Grey	**ND3299H-A31 16**	2CHH700031A8016	1
Ivory	**ND3299H-A31 17**	2CHH700031A8017	1
Macchiato	**ND3299H-A31 18**	2CHH700031A8018	1
Anthracite	**ND3299H-A31 63**	2CHH700031A8063	1
Yellow	**ND3299H-A31 64**	2CHH700031A8064	1
Red	**ND3299H-A31 65**	2CHH700031A8065	1
Orange	**ND3299H-A31 66**	2CHH700031A8066	1
Green	**ND3299H-A31 67**	2CHH700031A8067	1

Notes

Swing®L
Understated beauty

A modest combination of colours and white. A modern square design. A compelling offer of light switches and socket outlets for your daring reconstruction plans. Easy fitting thanks to their flat installation depth. Find fun in the functional.



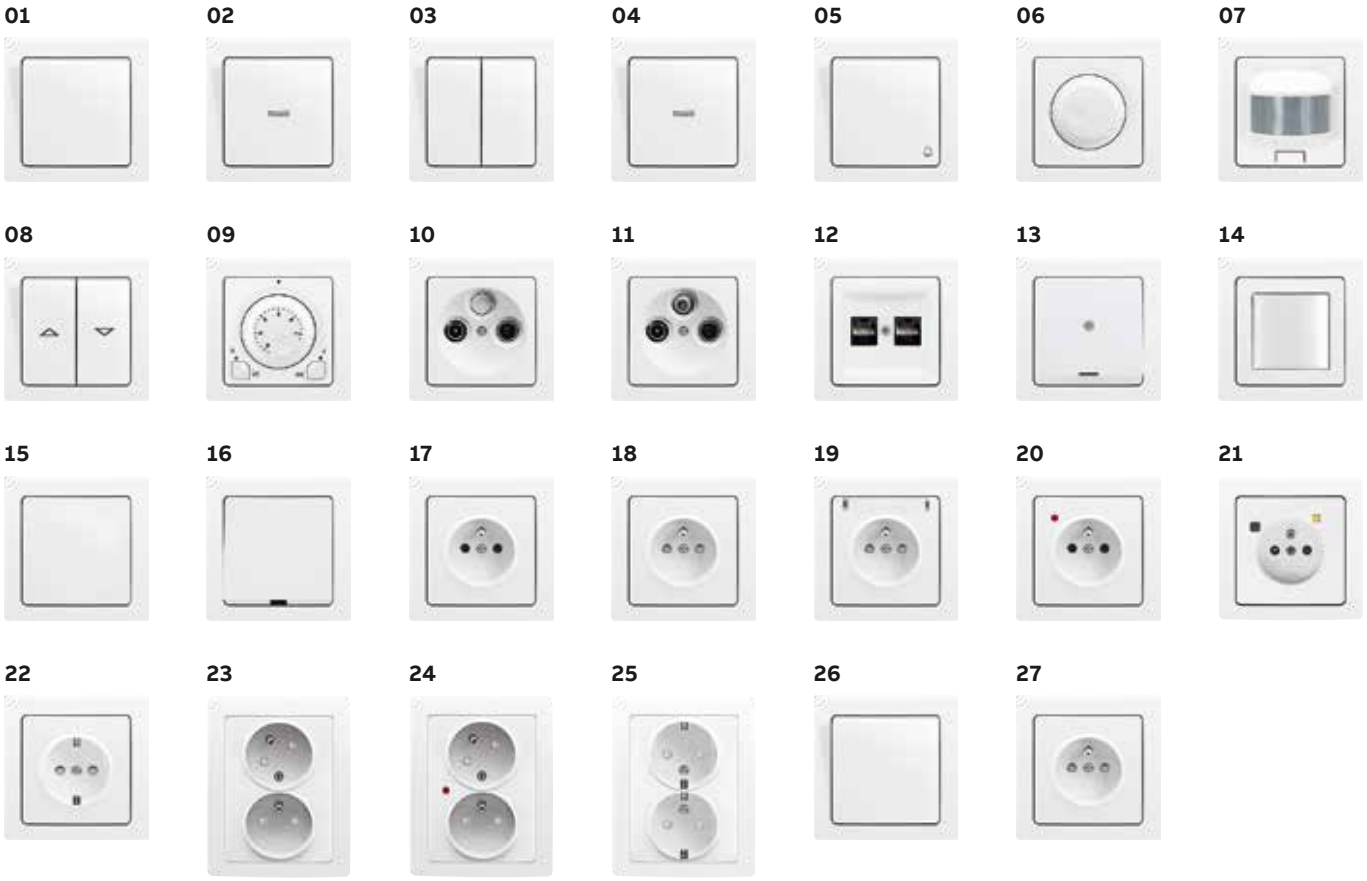
01 white / white
02 white / light grey
03 white / creamy
04 white / mocca
05 white / brick colour



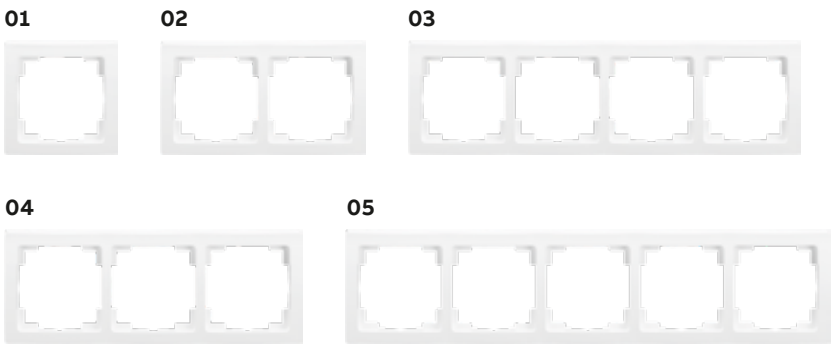
Ideal for blocks of flats and refurbishment projects, due to the small installation depth

Swing®L

Selected functions.



01 Rocker switch 1-gang
02 Rocker switch 1-gang, with indication or orientation neon lamp
03 Rocker switch 2-gang
04 Push switch 1-gang, with indication or orientation neon lamp
05 Push switch with bell symbol
06 Dimmer with rotary control
07 Flush-mounted movement detector
08 Push switch / blind control switch
09 Thermostat with rotary temperature setting
10 Antenna socket for TV / radio
11 Antenna socket for TV / radio / satellite
12 Data communication outlet 2-gang
13 Telephone connection unit
14 Illumination LED unit
15 Blank cover
16 Cable outlet
17 Socket outlet with earthing pin
18 Socket outlet with earthing pin, shuttered
19 Socket outlet with earthing pin, shuttered, with labelling field
20 Socket outlet with earthing pin, with surge protection
21 Safety socket with earthing pin, with built-in RCD, with shutters
22 SCHUKO® socket outlet
23 Double socket outlet with earth. pins
24 Double socket outlet with earthing pins, with surge protection
25 Double SCHUKO® socket outlet
26 IP 44 rocker switch, 1-gang
27 IP 44 socket outlet with earth. pins



1- to 5-gang cover frame for horizontal and vertical installation
01 85 mm x 85 mm
02 85 mm x 156 mm
03 85 mm x 227 mm
04 85 mm x 298 mm
05 85 mm x 369 mm

For more information about light switch ranges visit ABB global web sites.

Swing®L

Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker switch mechanism, 1-gang 1-way** [1] With optional illumination. Screw-type terminals. Fixation via screws or claws. 10 AX, 250 V AC	3557-A01440	20

[1] The neon lamp and LED are not part of the switch – see page 11/384.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker switch mechanism, 1-gang 2-way** [1] With optional illumination. Screw-type terminals. Fixation via screws or claws. 10 AX, 250 V AC	3557-A06440	20

[1] The neon lamp and LED are not part of the switch – see page 11/384.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker switch mechanism, intermediate** [1] With optional illumination. Screw-type terminals. Fixation via screws or claws. 10 AX, 250 V AC	3557-A07440	20

[1] The neon lamp and LED are not part of the switch – see page 11/384.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker switch mechanism, DP 1-gang 1-way** [1] Screw-type terminals. Fixation via screws or claws. 10 AX, 250 V AC	3557-A02442	20

[1] The neon lamp and LED are not part of the switch – see page 11/384.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker switch mechanism, 2-gang 1-way** [1] With optional illumination. Screw-type terminals. Fixation via screws or claws. 10 AX, 250 V AC	3557-A05440	20

[1] The neon lamp and LED are not part of the switch – see page 11/384.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker switch mechanism, 2-gang 2-way** Screw-type terminals. Fixation via screws or claws. 10 AX, 250 V AC	3557-A52440	20

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker push-switch mechanism, 1-gang 1-way** [1] With optional illumination. Screw-type terminals. Fixation via screws or claws. 10 A, 250 V AC	3557-A80440	20

[1] The neon lamp and LED are not part of the switch – see page 11/384.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker push-switch mechanism, 1-gang 1-way, with N terminal** [1] With optional illumination. Screw-type terminals. Fixation via screws or claws. 10 A, 250 V AC	3557-A91440	20

[1] The neon lamp and LED are not part of the switch – see page 11/384.

Product	Article-No.	Order-No.	Pack/Qty
	Rocker For switches 1g1w, 1g2w, intermediate. For 1g1w push-switch.		
white		3557G-A00651 B1	20

Product	Article-No.	Order-No.	Pack/Qty
	Rocker with doorbell symbol For 1g1w push-switch.		
white		3557G-A00680 B1	20

Product	Article-No.	Order-No.	Pack/Qty
	Rocker with light symbol For 1g1w push-switch.		
white		3557G-A00690 B1	20

Product	Article-No.	Order-No.	Pack/Qty
	Rocker divided For switches 2g1w, 2g2w.		
white		3557G-A00652 B1	20
ivory		3557G-A00652 C2	20

Product	Article-No.	Order-No.	Pack/Qty
	Rocker with transparent lens For switches 1g1w, 1g2w, intermediate, 1g1w DP with orientation or indication neon lamp. For 1g1w push-switch with orientation or indication neon lamp.		
white		3557G-A00653 B1	20

Swing®L

Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	Rocker divided, with transparent lens For 2g1w switch with orientation neon lamp.		
white		3557G-A00654 B1	20

Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-rotary dimmer [1] [2] [3] [4] [5] [6] [7]** **Flush-mounted, LED, 2-100 W** With rotary control, two-way switch and soft-catch. 2-wire connection (neutral conductor not required) Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. Via mode switch adjustable between leading edge control and trailing edge control. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. With adjustable minimum brightness. Without cover plate. Rated voltage: 230 V~, + 10% / - 10% Rated frequency: 50 Hz/60 Hz Nominal power: 2 - 100 W/VA (retrofit LED loads). Nominal power: 10 - 250 W/VA (non-LED loads). Protection class (Device): IP 20 Temperature range (Device): 0 °C to 35 °CIEC 60669-2-1, British Standard EN 60669-2-1 		
	6523 U-102-500	2CKA006512A0335	1/10
	**Busch-rotary dimmer [1] [2] [3] [4] [5] [6] [7]** **UP, LED, 2-400 W** Very small installation depth: < 20 mm Without claws. With rotary control, two-way switch and soft-catch. 2-wire connection (neutral conductor not required) Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. With manually adjustable operating mode: trailing / leading edge control. With adjustable minimum/maximum brightness. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. Without cover plate. Rated voltage: 230 V~, + 10% / - 10% Rated frequency: 50 Hz/60 Hz Nominal power: 2 - 100 W/VA (leading edge control) Nominal power: 2 - 400 W/VA (trailing edge control) Protection class (Device): IP 20 Temperature range (Device): 0 °C to 35 °CIEC 60669-2-1, British Standard EN 60669-2-1 		
	6523 UR-103-500	2CKA006512A0345	1/10

[1] Illuminable with neon lamp. Neon lamp included in delivery with cover plate.
[2] In the case of conventional transformers, take ~20% transformer loss into account.
[3] In case of electronic transformers, 5 % transformer losses.
[4] Also applicable for 1gang 2way installations.
[5] Provided with terminal for net disconnection devices.
[6] Only in conjunction with standard flush-mounting boxes according to DIN 49073, Part 1, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[7] Recommendation: Please use loads and types of one producer.

Swing®L
Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**Rotary control dimmer insert with ON/OFF soft-catch** [9) 13)] For ☼ also for certain 230 V AC compact fluorescent lamps with screw cap (energy saving lamps), designed for dimming (using the leading-edge phase control). Can be combined with 1g2w or 1g2w/intermediate switches (for ON/OFF operation only, brightness control is not possible). min. 60 W, max. 600 W for vacuum and halogen lamps, 230 V AC min. 10 W, max. 100 W for dimmable compact fluorescent lamps, 230 V AC		
	2250 U	6515-0-0704	1

[9)] At ambient temperature higher than 35 °C the load must be reduced by approx. 3 % / °C.
[13)] A neon lamp can be used for orientation illumination (more detailed information is given in switch range chapters).

	**Rotary control dimmer insert with ON/OFF soft-catch** [9) 13)] For ☼ [11)]; also for certain compact fluorescent lamps for 230 V AC with screw cap (energy saving lamps), designed for dimming (using the leading-edge phase control). Can be combined with 1g2w or 1g2w/intermediate switches (for ON/OFF operation only, brightness control is not possible). min. 20 W/V·A, max. 500 W/V·A, for 230 V or ELV lamps, 230 V AC min. 5 W, max. 100 W for dimmable compact fluorescent lamps, 230 V AC		
	2247 U	6512-0-0057	1

[9)] At ambient temperature higher than 35 °C the load must be reduced by approx. 3 % / °C.
[11)] With conventional transformers, take ~20 % transformer losses into account.
[13)] A neon lamp can be used for orientation illumination (more detailed information is given in switch range chapters).

	**Rotary control dimmer insert with ON/OFF soft-catch** [9) 13)] Short-circuit and overload electronic protection. Minimum brightness setting option. For ☼ [11)] Can be combined with 1g2w or 1g2w/intermediate switches (for ON/OFF operation only, brightness control is not possible). min. 200 W/V·A, max. 700 W/V·A, 230 V AC		
	6520 U-500	6520-0-0227	1

[9)] At ambient temperature higher than 35 °C the load must be reduced by approx. 3 % / °C.
[11)] With conventional transformers, take ~20 % transformer losses into account.
[13)] A neon lamp can be used for orientation illumination (more detailed information is given in switch range chapters).

Product	Article-No.	Order-No.	Pack/Qty
	**Rotary control dimmer insert with ON/OFF soft-catch** [9) 13)] Short-circuit and overload electronic protection. For ☼ [12)] Can be combined with 1g2w or 1g2w/intermediate switches (for ON/OFF operation only, brightness control is not possible). min. 40 W/V·A, max. 420 W/V·A, 230 V AC		
	6513 U-102	6513-0-0568	1

[9)] At ambient temperature higher than 35 °C the load must be reduced by approx. 3 % / °C.
[12)] With electronic transformers, take 5 % transformer losses into account.
[13)] A neon lamp can be used for orientation illumination (more detailed information is given in switch range chapters).

	**Electronic potentiometer insert for 1 -10 V electronics ballasts, for rotary control and switch-on at minimal brightness level** For ⊣▭⊢ or for LED control via electronic ballast with 1 - 10 V interface. Max. control current: 50 mA DC Potential-free contact for switching the ballast power supply. It is recommended to use a relay for more than 5 ballasts. 4 A (cos ϕ = 0.9), 3 A (cos ϕ = 0.5) 700 W/V·A, 230 V AC, 50/60 Hz		
	2112 U-101	6599-0-2035	1

Swing®L

Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**DALI Power-potentiometer insert, with rotary control and ON/OFF push operation** For central switching and dimming up to 64 DALI devices in accordance with EN 62386. Increased brightness sensitivity setting at slow rotation. Integrated orientation LED illumination (18 colour presets or OFF). Short-circuit and overload electronic protection. DALI cable length: max. 300 m (cores' cross section 1.5 to 2.5 mm²). The brightness level when switched on by brief pressing: the same as it was when last used or pre-selectable. The brightness level when the power supply is restored after power failure: switched off status or pre-selectable (if supported by the DALI device). In active mode the insert serves as a DALI power supply (15.5 V DC / 75 mA) for up to 37 DALI devices (or for up to 111 DALI devices with 3 power-potentiometers in parallel connection). In passive mode the insert behaves as an additional control unit. Parallel interconnection of power-potentiometers: up to 3 pcs in active mode or up to 5 pcs in passive mode. The insert is not suitable for combination with other DALI sensors. Power consumption: max. 2.5 W 4-wire connection in active mode, 2-wire connection in passive mode 230 V AC, 50/60 Hz		
	2117/11 U-500	6599-0-2988	1
	**DALI potentiometer insert, with rotary control and ON/OFF push operation** For central switching and dimming up to 64 DALI devices in accordance with EN 62386. Increased brightness sensitivity setting at slow rotation. Integrated orientation LED illumination (18 colour presets or OFF). An additional DALI power supply is needed (e.g. by Tridonic, Philips, Helvar, or the DALI power-potentiometer 6599-0-2988). Current consumption: 7 - 15 mA The insert is polarity-reversal proof. DALI cable length: max. 300 m (cores' cross section 1.5 to 2.5 mm²) The brightness level when switched on by brief pressing: the same as it was when last used or pre-selectable. The brightness level when the power supply is restored after power failure: switched off status or pre-selectable (if supported by the DALI device). Up to fi ve potentiometers may be connected in parallel. The insert is not suitable for combination with other DALI sensors. 2-wire connection		
	2117 U-500	6599-0-2987	1
	**Cover plate for rotary dimmer** [16] With fastening nut. With two types of button (for 6514-0-0111 and other devices).		
white		3294G-A00125 B1	5

[16] Cover illumination with neon lamp or LED is not possible.

Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Switch insert for movement detector** Switching element: relay Operating temperature: –10 °C to +55 °C 2 300 W for ☼, 1 750 V·A for ⫼⊗ ◿⊗, 500 V·A / 64 µF pro ⊏▭⊐ [44] For easy connection, terminal N is doubled. 3-wire connection, 230 VAC		
		3299U-A00006	1

[44] Also for example, for compact 230 V AC lamps (so-called CFL bulbs) or luminaires with LED.

	**Switch insert for movement detector** Switching element: 2 relays (relay 2 switches on about 3 min after relay 1 switches on, independently of external lighting; relay 2 switches off about 5 min after relay 1) Operating temperature: –10 °C to +55 °C Max. 3 A (cos ϕ > 0,8) [44] One spare fuse is inserted in the fuse box. 4-wire connection, 230 VAC		
		3299U-A00005	1

[44] Also for example, for compact 230 V AC lamps (so-called CFL bulbs) or luminaires with LED.

	**Switch insert for movement detector** Switching element: triac 5 s before switching off the brightness is reduced Operating temperature: –10 °C to +55 °C 40 - 300 W pro ☼ One spare fuse is inserted in the fuse box. 2-wire connection, 230 V AC		
		3299U-A00001	1

[36] Parallel connection of devices is not allowed. Can not be used for non-ohmic loads (control coils, fluorescent relays, LEDs, etc.).

	**Movement detector** Detection angle: approx. 180° Adjustable values (on the back of the cover): lighting threshold (1 - 1000 lx); sensitivity; switch-off delay (5 sec - 10 min, or 15 / 30 / 45 / 60 min by pressing integrated button) Operating temperature: –10 °C to +55 °C Need to be used together with a switch insert for movement detector.		
white		3299G-A02180 B1	1

Swing®L

Blind control

Product	Article-No.	Order-No.	Pack/Qty
	**Blind rocker switch mechanism** [3] 1-gang 1-way switch 10 AX, 250 V AC Screwless terminals. Fixation via screws or claws.		
		3557-A89440	20

[3] A neon lamp or LED cannot be used.

Product	Article-No.	Order-No.	Pack/Qty
	**Blind rocker switch mechanism** [3] 1-gang 1-way push-switch 10 A, 250 V AC Screwless terminals. Fixation via screws or claws.		
		3557-A88440	20

[3] A neon lamp or LED cannot be used.

Product	Article-No.	Order-No.	Pack/Qty
	**Blind switch rocker with markings** For 2g1w blind switch with interlock. For 2g1w blind push-switch with interlock.		
white		3557G-A00662 B1	20

Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**Socket outlet with earthing pin, shuttered** Screw-type terminals. Fixation via screws or claws. IP 40 16 A, 250 V AC		
white		5518G-A02459 B1	10

Product	Article-No.	Order-No.	Pack/Qty
	**Socket outlet with earthing pin** Screw-type terminals. Fixation via screws or claws. 16 A, 250 V AC		
white		5518G-A02449 B1	10

Product	Article-No.	Order-No.	Pack/Qty
	**Socket outlet with earthing pin, shuttered, with labelling field** Screw-type terminals. Fixation via screws or claws. IP 40 16 A, 250 V AC		
white		5518G-A02452 B1	10

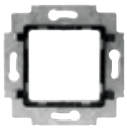
Product	Article-No.	Order-No.	Pack/Qty
	**Double socket outlet with earthing pins, shuttered, semifl ush-mounted** Screw-type terminals. Fixation via screws only. 16 A, 250 V AC		
		5512J-C02259 B1	10

Product	Article-No.	Order-No.	Pack/Qty
	**Double socket outlet with earthing pins, shuttered, with turned upper cavity** Screwless terminals. Fixation via screws only. IP 40 16 A, 250 V AC		
white		5513J-C02357 B1	10
white / creamy		5513J-C02357 B1C1	10/1
white / ivory		5513J-C02357 B1C2	10/1
white / mocca		5513J-C02357 B1C3	10/1
white / light grey		5513J-C02357 B1S1	10/1
white / brick colour		5513J-C02357 B1R3	10/1

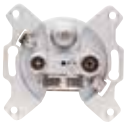
Product	Article-No.	Order-No.	Pack/Qty
	**Socket outlet with earthing pin, with surge protection** Optical fault signalling. Screw-type terminals. Fixation via screws only. 16 A, 230 V AC		
white		5598G-A02349 B1	1

Swing®L
Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**Double socket outlet with earthing pins, shuttered, with turned upper cavity, with surge protection** Optical fault signalling. Screwless terminals. Fixation via screws only. IP 40 16 A, 230 V AC		
white		5593J-C02357 B1	1
white / creamy		5593J-C02357 B1C1	1
white / mocca		5593J-C02357 B1C3	1
white / light grey		5593J-C02357 B1S1	1
white / brick colour		5593J-C02357 B1R3	1
	**Safety socket with earthing pin, with built-in RCD, with shutters** Residual working current $I_{\Delta n}$: 30 mA Type A, AC and pulse current sensitivity Rated current In: 16 A Rated frequency: 45-60 Hz Trip time at 5× $I_{\Delta n}$: max. 30 ms Rated short-circuit current: 3000 A Impulse current resistance: 3,000 A, 8/20 µs Ambient temperature: -25 ° C to +40 °C Degree of protection: IP 20 Climatic resistance: in accordance with ČSN EN 61008-1 Connection cross-section: 1.5 to 2.5 mm² Built-in depth: 32 mm Additional sockets can be connected to terminals L ', N' they will also be under the control of the current protector. Screwless terminals. 16 A, 230 V AC		
white		5526G-A02369 B1	1
	**Socket outlet with earthing contacts, shuttered** Screw-type terminals. Fixation via screws or claws. 16 A, 250 V AC Screwless terminals. Fixation via screws or claws. 16 A, 250 V AC		
white		5520G-A03457 B1	10/1
	**Socket outlet with earthing contacts, shuttered** Screw-type terminals. Fixation via screws or claws. 16 A, 250 V AC Screw-type terminals. Fixation via screws or claws. 16 A, 250 V AC		
white		5518G-A03459 B1	10

Product	Article-No.	Order-No.	Pack/Qty
	**Socket outlet with earthing contacts** Screw-type terminals. Fixation via screws or claws. 16 A, 250 V AC		
white		5518G-A03449 B1	10
	**Double socket outlet with earthing contacts, shuttered** Screw-type terminals. Fixation via screws or claws. 16 A, 250 V AC		
white		5512J-C03459 B1	10
	**Adapter for Profi l 45 inserts** For fl ush mounting of any Profi l 45 device (see pages 254 - 256) into switch ranges. For the assembly it is necessary to use cover plate 5016.-A00070 .. and the cover frame from the desired switch range.		
		5525U-A00100	5/1
	**Socket outlet 45×45 with earthing pin** Only for 2× 1.5 mm² or 2× 2.5 mm² conductors. 16 A, 250 V AC		
white (RAL 9010)		5525N-C02347 B	20
carmine (RAL 3003)		5525N-C02347 R1	20

Swing®L
Data connection

Product	Article-No.	Order-No.	Pack/Qty
	**Radio/TV socket outlet insert** – terminal type (article number **EU 3503**) – loop-through type with 7 dB tap loss (article number **EU 3607**) – loop-through type with 10 dB tap loss (article number **EU 3610**) – loop-through type with 14 dB tap loss (article number **EU 3614**) Nominal impedance of inputs and outputs: 75 Ω For coaxial cables with a diameter of 3.6 to 6.8 mm. Fixation via screws or claws.		
	EU 3503	5011-A3503	1
	EU 3610	5011-A3610	1
	EU 3614	5011-A3614	1
	**Radio/TV/SAT socket outlet insert** – terminal type (article number **EU 3303**) Allows passage of a current of 500 mA DC and 22 kHz tone signal for LNB power supply and control. Nominal impedance of inputs and outputs: 75 Ω For coaxial cables with a diameter of 3.6 to 6.8 mm. Fixation via screws or claws.		
	EU 3303	5011-A3303	1
	**Cover plate for Radio/TV/SAT socket outlet**		
white		5011G-A00300 B1	10
	**Loudspeaker terminal** – black differentiation ring Cross section of connecting wires: max. 4 mm²		
white		1479190-3	10/1
	**Loudspeaker terminal** – red differentiation ring Cross section of connecting wires: max. 4 mm²		
white		1479191-3	10/1

Product	Article-No.	Order-No.	Pack/Qty
	**Communication Modular-Jack insert (keystone)** – 8-pole RJ 45-8 Cat. 5e (unshielded) For mounting in socket fi xing plates and mounting plates (5014A-B101., 5014.-B0101., 1753-0-8055, 136811-1, 1711277-1, 5014G-A01018 .., 5014A-A02018 .., 5014H-A01018 .., 5014K-C01018).		
		1208.10 RJ 45-8	10
	**Data communication outlet 2gang** Connector socket cover With metal fastening bracket. For mounting two communication sockets type Modular Jack (keystone), blind plugs or speaker terminals (max. recommended width 18.3 mm). Hole dimensions: 19.4 x 14.8 mm		
white		5014G-A02018 B1	10

Swing®L

Thermostats, timers

Product	Article-No.	Order-No.	Pack/Qty
	**Switching unit insert for thermostats or time switch** Optional connection of external temperature sensor 3292U-A90100 for floor heating. Optional connection of potential free remote control contact (only for programmable control units 3292.-A10301, 3292.-A20301). Note: In the event of power failure the control unit display goes off. Operating temperature: 0 °C to +50 °C Output: potential free NO relay contact with safety galvanic isolation 16 A (cos ϕ = 1), 230 V AC, 3-wire connection		
		3292U-A00003	1
	**Universal thermostat with rotary temperature setting** Control unit (must be used with switching unit). Selectable room or fl oor function of the thermostat. Linear temperature setting. Indication of output status by two-colour LED. Push buttons for regulation ON/OFF and for manual temperature reduction (with LED indication). Operating temperature: 0 °C to +55 °C Room thermostat with thermal feedback: Temperature range: approx. +13 °C to +27 °C Adjustable manual temperature reduction: approx. 2 K to 8 K Hysteresis: approx. ±0.25 K Floor thermostat: Temperature setting range: approx. +15 °C to +48 °C Manual temperature reduction: approx. 4 K to 16 K Hysteresis: approx. ±0.5 K The external temperature sensor 3292U-A90100 (not included) must be connected to terminals 1 and 2 of the switching unit.		
white		3292G-A10101 B1	1
ivory		3292G-A10101 C2	1
	**Floor heating temperature sensor** For thermostat with rotary temperature setting 3292.-A10101, for programmable thermostat 3292.-A10301. Sensor element: PTC thermistor, 2 kΩ at 25 °C Cable: PVC, 4 m length Conductors: 2× 0.35 mm² Cable head: metal, Ø 6 × 18 mm Degree of protection: IP 54		
grey		3292U-A90100	1

LED light

Product	Article-No.	Order-No.	Pack/Qty
	**Indication and orientation LED illumination insert** Installation depth: 25 mm Screw-type terminals. Fixation via screws only. 10 mA, 230 V AC		
white light		3917U-A00050	1
blue light		3917U-A00051	1
green light		3917U-A00052	1
red light		3917U-A00053	1
	Cover plate for straight LED illumination or for Profi l 45 adapter For LED illumination insert. For Profi l 45 insert adapter.		
white		5016G-A00070 B1	5/1
	**Cover plate for thermostat** For insert: 2CHG704010A4520.		
white		2CHG704010A4520	1
	**Combination thermostat** Thermostat with low insert (20 mm mounting depth) meeting the Ecodesign requirements. The thermostat is pre-programmed. Rated voltage 230 V AC ± 10% 50 Hz Output 1 no and connectors 1.5 mm² to 4 mm² Switching current 250 V AC / 16 (2) A, protection class II and protection class IP21. Operating temperature 0 ° C to 35 ° C and storage temperature -20 ° C to 70 ° C Clock Accuracy (at 20 ° C) <+/- 0.5 sec / min Power consumption (standby) <0.05 W Floor sensor NTC 10kΩ @ 25˚C and external control (EXT connector) 230V AC / 10µA (same phase).		
		2TKA00004033	1

Swing®L
Accessories

Product	Article-No.	Order-No.	Pack/Qty
	**Compensator** 1. Prevents the self-ignition/fl ickering of energy-saving lamps (CFL, LED) in OFF state when orientation illumination is used. This effect is caused by features of built-in ballasts, occures if the illumination is connected between phase and the lamp. The compensator is applicable in the circuits with switches 1g1w, 1g2w, intermediate. (To be connected in parallel to the lamp). 2. Prevents after-glow of extra-low-voltage halogen or LED lamps in the deactivated state due to possible ripple voltage or activation via touch-dimmer without neutral conductor connection. (To be connected in parallel to the primary transformer side or to the lamp). 3. Removes noise generation on electronic transformers in the switched-off state during activation via touch dimmer without neutral conductor connection. (To be connected in parallel to the primary transformer side). 4. Removes ripple voltages on the control line in blind control/group controls with Busch-Jalousiecontrol® II devices. (To be connected between control wire “UP” and N conductor, and between “Down” and N conductor). Dimensions: Ø 22 × 25 mm. Length of wires: approx. 235 mm 250 V AC, 50 Hz		
	6596	6599-0-2290	1
	**Orientation universal neon lamp** For rocker switches and push-switches of 3557, 3558, 3559 series. – orange light (neon lamp collar is blue) – green light (neon lamp collar is grey) – blue light (neon lamp collar is purple)		
orange light		3916-12221	100/10
green light		3916-12222	100/10
blue light		3916-12223	100/10
	**Indication neon lamp** For rocker switches and push-switches of 3557, 3558, 3559 series. – orange light (neon lamp collar is green)		
		3916-22221	100/10
	**Universal lamp** For orientation and indication illumination in doorbell circuits with extra-low voltage (for mechanisms 3557-A80440, 3559-A91445, 3559-A86445). 40 mA, 12 V AC (Article number: **8345-1**) 22 mA, 24 V AC (Article number: **8337-1**)		
	8345-1	1784-0-0289	100/1
	8337-1	1784-0-0032	100/1

Product	Article-No.	Order-No.	Pack/Qty
	**Neon lamp, spare** For dimmer cover plates with rotary control. 0.8 mA, 230 V AC		
	3855	6599-0-0518	10/1
	**Fuse for electronic inserts (spare), slow cut-off characteristics** T1.6A/1500 (for 6514-0-0111)		
		GT520216	10
	**Fuse for electronic inserts (spare), slow cut-off characteristics** T3.15A/1500 (for 6515-0-0704, 6512-0-0057, 6517-0-0018, 6560-0-1205, 3294U-A00130)		
		GT520231	10
	**Fuse for electronic inserts (spare), slow cut-off characteristics** T6.3A/1500 (for 6520-0-0227)		
		GT520263	10
	**Fuse for electronic inserts (spare), fast cut-off characteristics** F2.5A/1500 (for 3299.-A121..)		
		GF520225	10
	**Fuse for electronic inserts (spare), fast cut-off characteristics** F3.15A/1500 (for 3299.-A321..)		
		GF520231	10

Swing®L
Accessories

Product	Article-No.	Order-No.	Pack/Qty
	Cable outlet With strain relief. As adapter from fi xed installation to fl exible 3× 1.5 mm² - 5× 2.5 mm² cable. Terminal block is not included.		
white		3938G-A00034 B1	5/1
	**Blank plate** With plastic mounting plate.		
white		3902G-A00001 B1	10
	**Surface mounting box** For trunking distribution systems. For flush-mounted switches and semiflush-mounted double socket outlets 5512J-C02259. Internal depth: 26 mm External dimensions: 85 × 85 × 28 mm Screws for fi xation of inserts included.		
white		3900J-C00001 B	10
	Surface mounting box For trunking distribution systems. For double socket outlets 5513J-C02357 .. Internal depth: 26 mm External dimensions: 85 × 109 × 28 mm Screws for fi xation of inserts included.		
white		3900J-C00002 B	10

Swing®L
Cover frames

Product	Article-No.	Order-No.	Pack/Qty
	Cover frame 1-gang		
white		3901J-A00010 B1	20
creamy		3901J-A00010 C1	20
mocca		3901J-A00010 C3	20
light grey		3901J-A00010 S1	20
brick colour		3901J-A00010 R3	20
	Cover frame 2-gang For horizontal and vertical installation.		
white		3901J-A00020 B1	10
creamy		3901J-A00020 C1	10
mocca		3901J-A00020 C3	10
light grey		3901J-A00020 S1	10
brick colour		3901J-A00020 R3	10
	Cover frame 3-gang For horizontal and vertical installation.		
white		3901J-A00030 B1	10
creamy		3901J-A00030 C1	10/1
mocca		3901J-A00030 C3	10/1
light grey		3901J-A00030 S1	10/1
brick colour		3901J-A00030 R3	10/1
	Cover frame 4-gang For horizontal and vertical installation.		
white		3901J-A00040 B1	10
creamy		3901J-A00040 C1	10/1
mocca		3901J-A00040 C3	10/1
light grey		3901J-A00040 S1	10/1
brick colour		3901J-A00040 R3	10/1

Product	Article-No.	Order-No.	Pack/Qty
	**Cover frame 5-gang** For horizontal and vertical installation.		
white		3901J-A00050 B1	10/1
creamy		3901J-A00050 C1	10/1
mocca		3901J-A00050 C3	10/1
light grey		3901J-A00050 S1	10/1
brick colour		3901J-A00050 R3	10/1

Swing®L

Flush mounted switches and socket outlets IP44

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker switch mechanism, 1-gang 1-way, with rocker** Screw-type terminals. Fixation via screws or claws. IP 44 10 AX, 250 V AC		
white		3557G-A01940 B1	10/1
	**Rocker switch mechanism, 1-gang 2-way, with rocker** Screw-type terminals. Fixation via screws or claws. IP 44 10 AX, 250 V AC		
white		3557G-A06940 B1	10/1
	**Rocker switch mechanism, intermediate, with rocker** Screw-type terminals. Fixation via screws or claws. IP 44 10 AX, 250 V AC		
white		3557G-A07940 B1	10/1
	**Rocker push-switch mechanism, 1-gang 1-way, with rocker** Screw-type terminals. Fixation via screws or claws. IP 44 10 A, 250 V AC		
white		3557G-A80940 B1	10/1
	**Socket outlet with earthing pin, with hinged lid** [26) 38)] Screw-type terminals. Fixation via screws or claws. IP 44 16 A, 250 V AC		
white with white hinged lid)		5518G-A02989 B	10
white (with translucent hinged lid)		5518G-A02989 B1	10

[26)] The insert meets the specified degree of protection when mounted on a vertical, smooth and non-porous wall.

[38)] The indicated degree of protection is provided only when the lid is closed.

Zenit

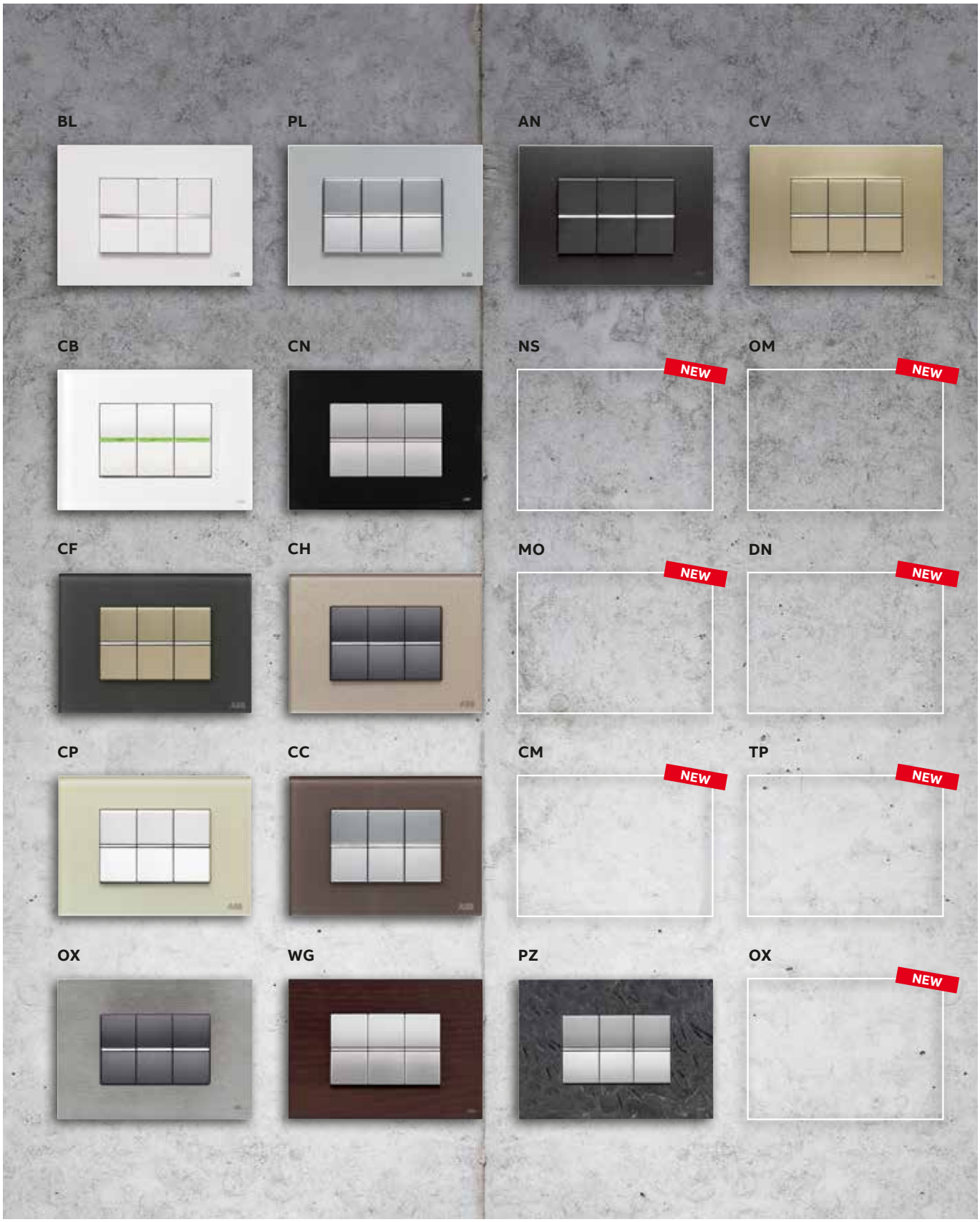
The highlight of modular series.

Zenit is the most comprehensive modular range for all kind of homes and commercial buildings. A number of appreciated designs and beautiful finishes that add value to the facility, with advanced features that provide greater comfort and performance level. With Zenit you can make any type of installation, can enjoy benefit of technical advantages that make it easier and faster. This range has the guarantee of a brand renowned for its quality such as ABB.



Frame finishings

BL	White	CN	Black Glass	OX	Stainless Steel	MO	Mocha
PL	Silver	CF	Graphite Glass	WG	Wenge	DN	Dune
AN	Anthracite	CH	Champagne Glass	PZ	Slate	CM	Comodore
CV	Champagne	CP	Pearl Glass	NS	Silk Black	TP	Taupe
CB	White Glass	CC	Coffee Glass	OM	Matt Gold	OX	Subtle Stainless Steel



Device finishings

BB - Total White

BL - White

AA - Total Anthracite

AN - Anthracite

PL - Silver

CV - Champagne

.5 Green diffuser

.51 White diffuser

The top in design and performance
For its aesthetics and details

Simple, elegant, the top in design.

Zenit is born with a high-rise design. With rectilinear lines, very trendy finishes and full of details that enhance its aesthetics. It reaches the highest levels in quality and infinite values.



Zenit Float
7,5 mm height. Visually lightened through the 2 piece floating effect.

Zenit Solid
7,5 mm height. Compact and firm profile. Solid effect with own personality.



Zenit Soul
4,1 mm height. The essential frame with a ultra-light profile, being one of the slimmest frames in the market.

Zenit
Wide range.







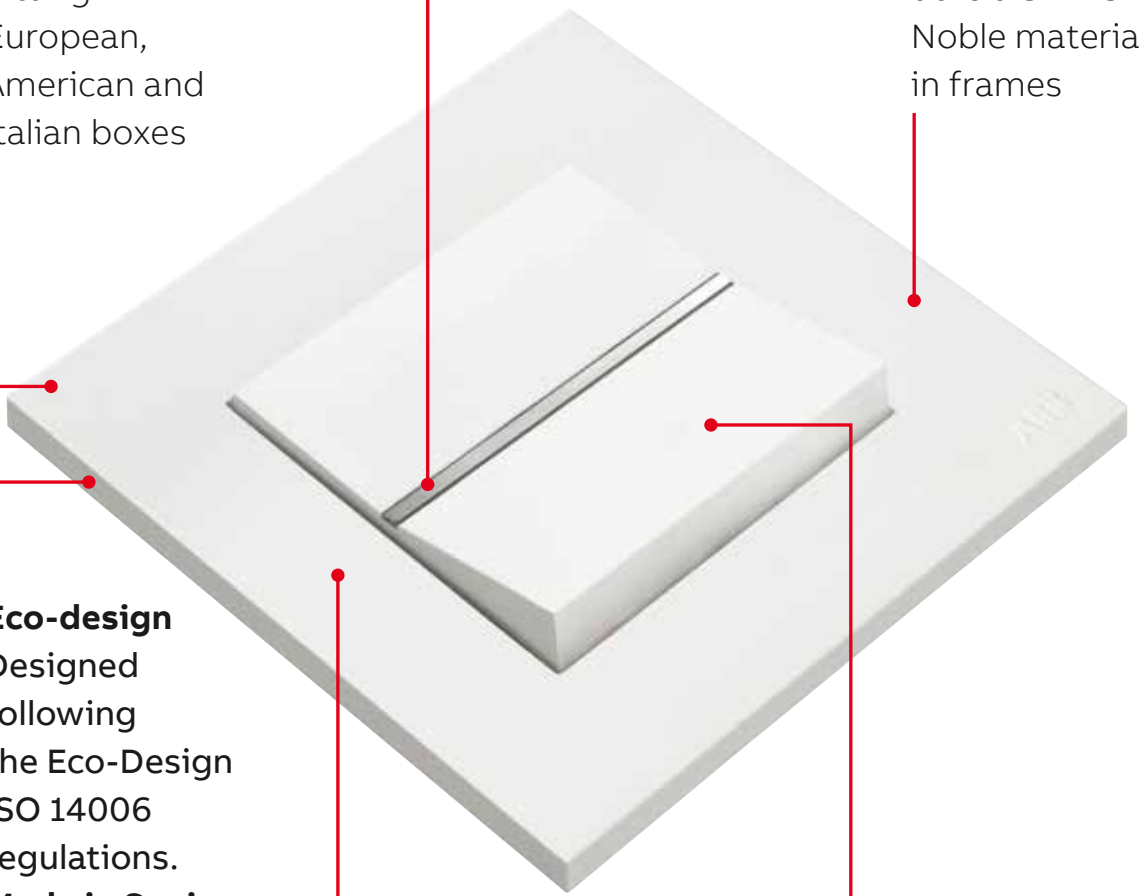


Display and styling trim
Lighting in green and white. Styling trim in Chrome, Anthracite, White and Champagne



Multi-standard
Fitting in European, American and Italian boxes

High-quality and durable finishes.
Noble materials in frames



Eco-design
Designed following the Eco-Design ISO 14006 regulations.
Made in Spain with 100% renewable energy.

AENOR
Ecodiseño
ED-0008/2007

More than 100 functions in four finishes

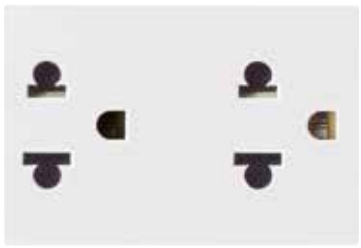


BIM objects and App for Revit available

Zenit

Functions for all spaces .
Zenit can be installed everywhere, in spaces that require new solutions, with new applications and all installation facilities.



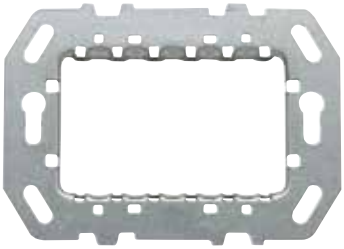


Rapid cabling - Up to 40% savings

- Contacts with automatic connection terminals simplifying the cabling and saving up to a 40% in installation time. Large and smooth press clamps to make the automatic connection more comfortable and safer.
- 16AX switches for up to 200W (100W at 127Vac) LED loads, according to the latest IEC requirements.
- Robust and compact mechanisms. Insertion and extraction from the front.
- Designed to hold the switches firmly avoiding balancing problems.
- Only 21 mm depth, which allows more connection space for wires.
- Manufactured with high quality and recyclable material.

More protection

Children are really curious and get excited with any dangerous device available at home, especially those that are at the height of socket outlets. All Zenit socket outlets are equipped with shutters for child protection, protecting the live parts from electric shock.







1. Strip the cable about 14 mm and introduce it into the terminal.



2. Press the push button and insert the cable.



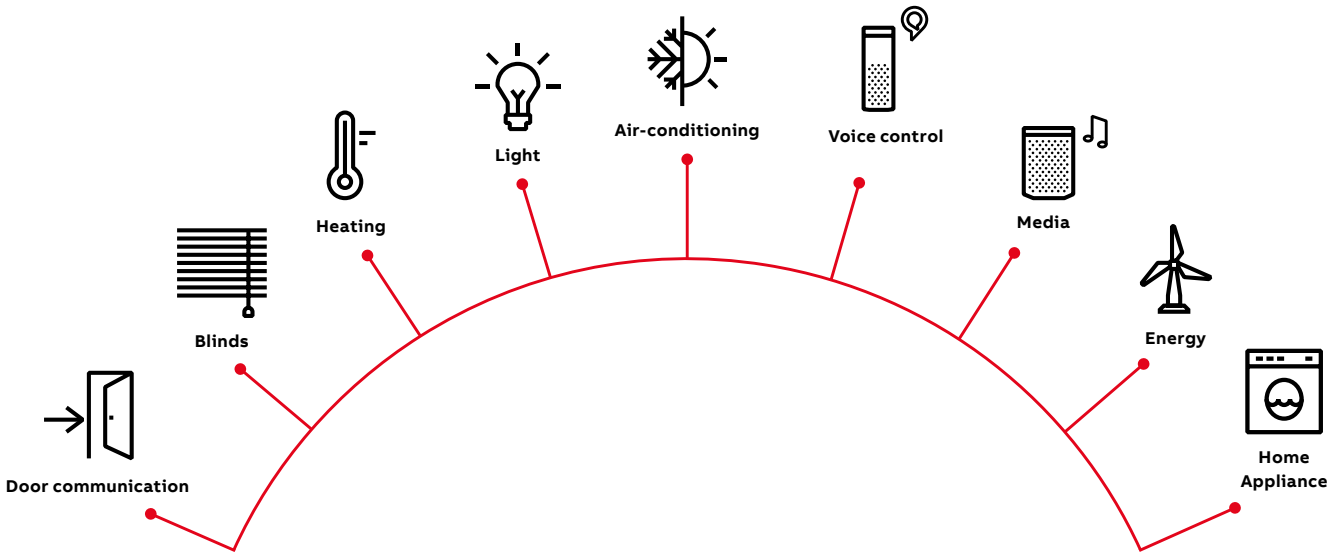
3. Release the push button and check fixation. To disconnect the cord, press again the push button on top and bottom.

More benefits

- Galvanized steel mounting plates with unique anticorrosion treatment with top and bottom nerves for a rigid positioning of the mechanism.
- Locator and indicator lights can be easily be mounted or changed from the front side without dismounting the switch.
- Low consumption LED lamps.
- Low consumption in stand-by and high efficiency USB chargers.
- Schuko socket outlets with the three screws in the same side to to facilitate their wiring.

Zenit

ABB-free@home - Home becomes smart



The pleasure of simplicity
ABB-free@home® makes daily life easier. You can manage blinds, lights, heating, air-conditioning and door communication using just one system. The smartphone becomes the remote control in the house. It allows you to raise the blinds and switch on the radio in the kitchen with the touch of a button while you are still in bed – or to deactivate all lights and devices via a switch when leaving the house. Very convenient. Extremely comfortable. Very energy efficient. The setting of these scenes is as easy as can be – to suit the mood or situation.

ABB i-bus KNX - Details and solutions for intelligent building control



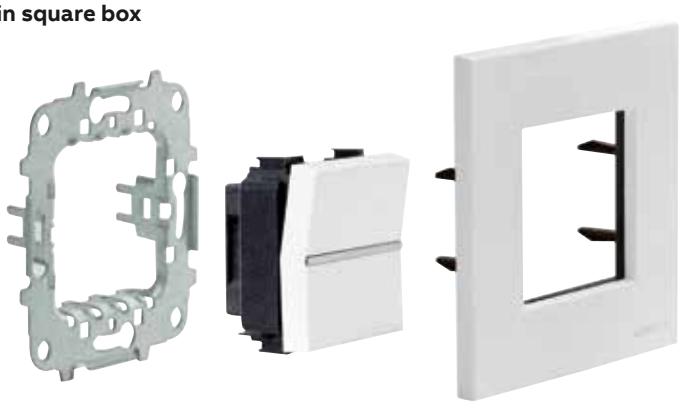
Combinable concept with sensors and sensor/actuators
Creating a comprehensive range, is suitable for all needs. Optimizing comfort, safety and efficiency in homes and buildings. Providing comfort solutions to satisfy all types of needs and projects. Ensuring safety and protection of persons and goods. Saving energy by using only the amount of energy required.

Easy and intuitive installation system, providing maximum values in performance, comfort and functionality in any market

European installation

—

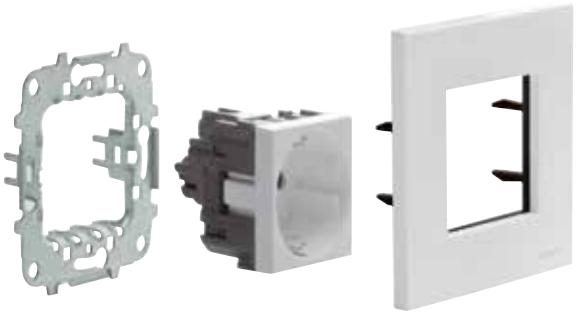
Switch composition in square box



Mounting plate | Insert / Cover plate | Frame

—

Schuko socket outlet composition in square box



Mounting plate | Insert / Cover plate | Frame

Italian installation

—

4 module composition



Mounting plate **Insert / Cover plate** **Frame**

—

7 module composition

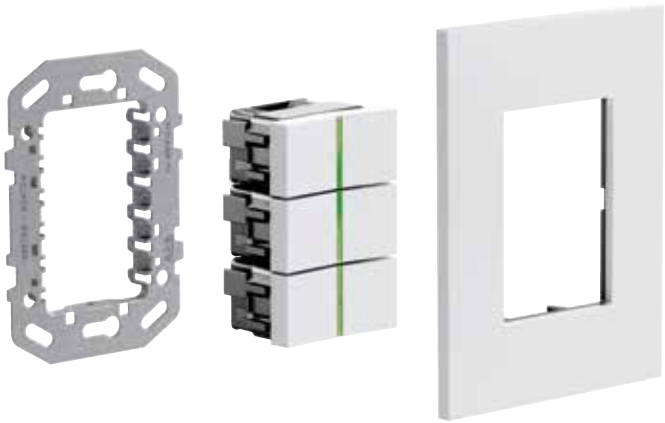


Mounting plate **Insert / Cover plate** **Frame**

American installation

—

Switch composition in rectangular box



Mounting plate **Insert / Cover plate** **Frame**

—

NEMA socket outlet composition in rectangular box



Mounting plate **Insert / Cover plate** **Frame**

Zenit

1-way switches

Color	Article-No.	Order-No.	Pack/Qty
	**Switch 1-gang, 1-way, SP - 1 M** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screwless terminals. Optional: locator LED lamp N2191.		
White	**N2101 BL**	2CLA210100N1101	20
Silver	**N2101 PL**	2CLA210100N1301	20
Anthracite	**N2101 AN**	2CLA210100N1801	20
Champagne	**N2101 CV**	2CLA210100N1901	20
Total White	**N2101 BB**	2CLA210100N1201	20
Total Anthracite	**N2101 AA**	2CLA210100N1601	20
	**Switch 1-gang, 1-way, SP - 1,5 M** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screwless terminals. Optional: locator LED lamp N2191.		
White	**N2801 BL**	2CLA280100N1101	10
Silver	**N2801 PL**	2CLA280100N1301	10
Anthracite	**N2801 AN**	2CLA280100N1801	10
Champagne	**N2801 CV**	2CLA280100N1901	10
	**Switch 1-gang, 1-way, SP - 2 M** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screwless terminals. Optional: locator LED lamp N2191.		
White	**N2201 BL**	2CLA220100N1101	10
Silver	**N2201 PL**	2CLA220100N1301	10
Anthracite	**N2201 AN**	2CLA220100N1801	10
Champagne	**N2201 CV**	2CLA220100N1901	10
Total White	**N2201 BB**	2CLA220100N1201	10
Total Anthracite	**N2201 AA**	2CLA220100N1601	10
	**Switch 1-gang, 1-way, SP - 3 M** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screwless terminals. Optional: locator LED lamp N2191.		
White	**N2301 BL**	2CLA230100N1101	10
Silver	**N2301 PL**	2CLA230100N1301	10
Anthracite	**N2301 AN**	2CLA230100N1801	10
Champagne	**N2301 CV**	2CLA230100N1901	10

2-way switches

Color	Article-No.	Order-No.	Pack/Qty
	**Switch 1-gang, 2-way, SP - 1 M** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screwless terminals. Optional: locator LED lamp N2192.		
White	**N2102 BL**	2CLA210200N1101	20
Silver	**N2102 PL**	2CLA210200N1301	20
Anthracite	**N2102 AN**	2CLA210200N1801	20
Champagne	**N2102 CV**	2CLA210200N1901	20
Total White	**N2102 BB**	2CLA210200N1201	20
Total Anthracite	**N2102 AA**	2CLA210200N1601	20
	**Switch 1-gang, 2-way, SP - 1,5 M** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screwless terminals. Optional: locator LED lamp N2192.		
White	**N2802 BL**	2CLA280200N1101	10
Silver	**N2802 PL**	2CLA280200N1301	10
Anthracite	**N2802 AN**	2CLA280200N1801	10
Champagne	**N2802 CV**	2CLA280200N1901	10
	**Switch 1-gang, 2-way, SP - 2 M** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screwless terminals. Optional: locator LED lamp N2192.		
White	**N2202 BL**	2CLA220200N1101	10
Silver	**N2202 PL**	2CLA220200N1301	10
Anthracite	**N2202 AN**	2CLA220200N1801	10
Champagne	**N2202 CV**	2CLA220200N1901	10
Total White	**N2202 BB**	2CLA220200N1201	10
Total Anthracite	**N2202 AA**	2CLA220200N1601	10
	**Switch 1-gang, 2-way, SP - 3 M** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screwless terminals. Optional: locator LED lamp N2192.		
White	**N2302 BL**	2CLA230200N1101	10
Silver	**N2302 PL**	2CLA230200N1301	10
Anthracite	**N2302 AN**	2CLA230200N1801	10
Champagne	**N2302 CV**	2CLA230200N1901	10

Zenit

Intermediate switches

Color	Article-No.	Order-No.	Pack/Qty
	**Switch 1-gang, intermediate, SP - 1 M** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screwless terminals. Optional: locator LED lamp N2192.		
White	**N2110 BL**	2CLA211000N1101	20
Silver	**N2110 PL**	2CLA211000N1301	20
Anthracite	**N2110 AN**	2CLA211000N1801	20
Champagne	**N2110 CV**	2CLA211000N1901	20
Total White	**N2110 BB**	2CLA211000N1201	20
Total Anthracite	**N2110 AA**	2CLA211000N1601	20
	**Switch 1-gang, intermediate, SP - 1,5 M** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screwless terminals. Optional: locator LED lamp N2192.		
White	**N2810 BL**	2CLA281000N1101	10
Silver	**N2810 PL**	2CLA281000N1301	10
Anthracite	**N2810 AN**	2CLA281000N1801	10
Champagne	**N2810 CV**	2CLA281000N1901	10
	**Switch 1-gang, intermediate, SP - 2 M** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screwless terminals. Optional: locator LED lamp N2192.		
White	**N2210 BL**	2CLA221000N1101	10
Silver	**N2210 PL**	2CLA221000N1301	10
Anthracite	**N2210 AN**	2CLA221000N1801	10
Champagne	**N2210 CV**	2CLA221000N1901	10
Total White	**N2210 BB**	2CLA221000N1201	10
Total Anthracite	**N2210 AA**	2CLA221000N1601	10
	**Switch 1-gang, intermediate, SP - 3 M** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screwless terminals. Optional: locator LED lamp N2192.		
White	**N2310 BL**	2CLA231000N1101	10
Silver	**N2310 PL**	2CLA231000N1301	10
Anthracite	**N2310 AN**	2CLA231000N1801	10
Champagne	**N2310 CV**	2CLA231000N1901	10

Double pole switches

Color	Article-No.	Order-No.	Pack/Qty
	**Switch 1-gang, 1-way, DP - 1 M** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screwless terminals. Optional: locator LED lamp N2192.		
White	**N2101.2 BL**	2CLA210120N1101	20
Silver	**N2101.2 PL**	2CLA210120N1301	20
Anthracite	**N2101.2 AN**	2CLA210120N1801	20
Champagne	**N2101.2 CV**	2CLA210120N1901	20
Total White	**N2101.2 BB**	2CLA210120N1201	20
Total Anthracite	**N2101.2 AA**	2CLA210120N1601	20
	**Switch 1-gang, 1-way, DP - 2 M** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screwless terminals. Optional: locator LED lamp N2192.		
White	**N2201.2 BL**	2CLA220120N1101	10
Silver	**N2201.2 PL**	2CLA220120N1301	10
Anthracite	**N2201.2 AN**	2CLA220120N1801	10
Champagne	**N2201.2 CV**	2CLA220120N1901	10
Total White	**N2201.2 BB**	2CLA220120N1201	10
Total Anthracite	**N2201.2 AA**	2CLA220120N1601	10
	**Switch 1-gang, 1-way, DP, 32AX - 2 M** Rated voltage: 110 - 250 Vac. Rated current: 32AX. Screwless terminals.		
White	**N2201.8 BL**	2CLA220180N1102	5
Silver	**N2201.8 PL**	2CLA220180N1302	5
Anthracite	**N2201.8 AN**	2CLA220180N1802	5
Champagne	**N2201.8 CV**	2CLA220180N1902	5
	**Switch 1-gang, 2-way, DP - 1 M** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screwless terminals.		
White	**N2102.2 BL**	2CLA210220N1102	20
Silver	**N2102.2 PL**	2CLA210220N1302	20
Anthracite	**N2102.2 AN**	2CLA210220N1802	20
Champagne	**N2102.2 CV**	2CLA210220N1902	20

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Switches with screw-nut terminals

Color	Article-No.	Order-No.	Pack/Qty
	Switch 1-gang, 1-way, SP - 1 M NEW Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screw-nut type terminals. Optional: locator LED lamp N2194 BB, N21941 BB or N2194.2 BB.		
White	**N2101.T BL**	2CLA210109N1101	20
Silver	**N2101.T PL**	2CLA210109N1301	20
Anthracite	**N2101.T AN**	2CLA210109N1801	20
Champagne	**N2101.T CV**	2CLA210109N1901	20
Total White	**N2101.T BB**	2CLA210109N1201	20
Total Anthracite	**N2101.T AA**	2CLA210109N1601	20
	Switch 1-gang, 2-way, SP - 1 M NEW Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screw-nut type terminals. Optional: locator LED lamp N2194 BB, N21941 BB or N2194.2 BB.		
White	**N2102.T BL**	2CLA210209N1101	20
Silver	**N2102.T PL**	2CLA210209N1301	20
Anthracite	**N2102.T AN**	2CLA210209N1801	20
Champagne	**N2102.T CV**	2CLA210209N1901	20
Total White	**N2102.T BB**	2CLA210209N1201	20
Total Anthracite	**N2102.T AA**	2CLA210209N1601	20
	Switch 1-gang, intermediate, SP - 1 M NEW Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screw-nut type terminals. Optional: locator LED lamp N2194 BB, N21941 BB or N2194.2 BB.		
White	**N2110.T BL**	2CLA211009N1101	20
Silver	**N2110.T PL**	2CLA211009N1301	20
Anthracite	**N2110.T AN**	2CLA211009N1801	20
Champagne	**N2110.T CV**	2CLA211009N1901	20
Total White	**N2110.T BB**	2CLA211009N1201	20
Total Anthracite	**N2110.T AA**	2CLA211009N1601	20
	Switch 1-gang, 1-way, DP - 1 M NEW Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screw-nut type terminals. Optional: locator LED lamp N2194 BB, N21941 BB or N2194.2 BB.		
White	**N2101.2T BL**	2CLA210129N1101	20
Silver	**N2101.2T PL**	2CLA210129N1301	20
Anthracite	**N2101.2T AN**	2CLA210129N1801	20
Champagne	**N2101.2T CV**	2CLA210129N1901	20
Total White	**N2101.2T BB**	2CLA210129N1201	20
Total Anthracite	**N2101.2T AA**	2CLA210129N1601	20

Switches with indicator light

Color	Article-No.	Order-No.	Pack/Qty
	Switch 1-gang, 1-way, SP - 1 M Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screwless terminals. 3 wires (Neutral conductor required). Included: indicator LED lamp N2192 RJ (230 Vac).		
White	**N2101.5 BL**	2CLA210150N1101	5
Silver	**N2101.5 PL**	2CLA210150N1301	5
Anthracite	**N2101.5 AN**	2CLA210150N1801	5
Champagne	**N2101.5 CV**	2CLA210150N1901	5
	Switch 1-gang, 1-way, SP - 1 M Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Rated power iLED (230/127 Vac): 200/100 W. Screwless terminals. 3 wires (Neutral conductor required). Included: indicator LED lamp N2192 BB (230 Vac).		
White-W	**N2101.51 BL**	2CLA210151N1101	5
Silver-W	**N2101.51 PL**	2CLA210151N1301	5
Anthracite-W	**N2101.51 AN**	2CLA210151N1801	5
Champagne-W	**N2101.51 CV**	2CLA210151N1901	5
	Switch 1-gang, 1-way, SP - 2 M Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screwless terminals. 3 wires (Neutral conductor required). Included: indicator LED lamp N2192 RJ (230 Vac).		
White	**N2201.5 BL**	2CLA220150N1101	5
Silver	**N2201.5 PL**	2CLA220150N1301	5
Anthracite	**N2201.5 AN**	2CLA220150N1801	5
Champagne	**N2201.5 CV**	2CLA220150N1901	5
	Switch 1-gang, 1-way, SP - 2 M Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screwless terminals. 3 wires (Neutral conductor required). Included: indicator LED lamp N2192 BB (230 Vac).		
White-W	**N2201.51 BL**	2CLA220151N1101	5
Silver-W	**N2201.51 PL**	2CLA220151N1301	5
Anthracite-W	**N2201.51 AN**	2CLA220151N1801	5
Champagne-W	**N2201.51 CV**	2CLA220151N1901	5

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Switches with indicator light

Color	Article-No.	Order-No.	Pack/Qty
	**Switch 1-gang, 2-way, SP - 1 M** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screwless terminals. 4 wires (Neutral conductor required). Included: indicator LED lamp N2191 VD (230 Vac).		
White	**N2102.5 BL**	2CLA210250N1101	5
Silver	**N2102.5 PL**	2CLA210250N1301	5
Anthracite	**N2102.5 AN**	2CLA210250N1801	5
Champagne	**N2102.5 CV**	2CLA210250N1901	5
	**Switch 1-gang, 2-way, SP - 1 M** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screwless terminals. 4 wires (Neutral conductor required). Included: indicator LED lamp N2191 BB (230 Vac).		
White-W	**N2102.51 BL**	2CLA210251N1101	5
Silver-W	**N2102.51 PL**	2CLA210251N1301	5
Anthracite-W	**N2102.51 AN**	2CLA210251N1801	5
Champagne-W	**N2102.51 CV**	2CLA210251N1901	5
	**Switch 1-gang, 2-way, SP - 2 M** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screwless terminals. 4 wires (Neutral conductor required). Included: indicator LED lamp N2191 VD (230 Vac).		
White	**N2202.5 BL**	2CLA220250N1101	5
Silver	**N2202.5 PL**	2CLA220250N1301	5
Anthracite	**N2202.5 AN**	2CLA220250N1801	5
Champagne	**N2202.5 CV**	2CLA220250N1901	5
	**Switch 1-gang, 2-way, SP - 2 M** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screwless terminals. 4 wires (Neutral conductor required). Included: indicator LED lamp N2191 BB (230 Vac).		
White-W	**N2202.51 BL**	2CLA220251N1101	5
Silver-W	**N2202.51 PL**	2CLA220251N1301	5
Anthracite-W	**N2202.51 AN**	2CLA220251N1801	5
Champagne-W	**N2202.51 CV**	2CLA220251N1901	5

Push buttons with indicator light

Color	Article-No.	Order-No.	Pack/Qty
	**Push-button, SP without symbol - 1M** Rated voltage: 110 - 250 Vac. Rated current: 16A. Screwless terminals. 3 wires (Neutral conductor required). Included: indicator LED lamp N2192 RJ (230 Vac).		
White	**N2104.5 BL**	2CLA210450N1101	5
Silver	**N2104.5 PL**	2CLA210450N1301	5
Anthracite	**N2104.5 AN**	2CLA210450N1801	5
Champagne	**N2104.5 CV**	2CLA210450N1901	5
	**Push-button, SP without symbol - 2M** Rated voltage: 110 - 250 Vac. Rated current: 16A. Screwless terminals. 3 wires (Neutral conductor required). Included: indicator LED lamp N2192 RJ (230 Vac).		
White	**N2204.5 BL**	2CLA220450N1101	5
Silver	**N2204.5 PL**	2CLA220450N1301	5
Anthracite	**N2204.5 AN**	2CLA220450N1801	5
Champagne	**N2204.5 CV**	2CLA220450N1901	5
	**Push-button, SP without symbol - 1M** Rated voltage: 110 - 250 Vac. Rated current: 16A. Screwless terminals. 3 wires (Neutral conductor required). Included: indicator LED lamp N2192 BB (230 Vac).		
White-W	**N2104.51 BL**	2CLA210451N1101	5
Silver-W	**N2104.51 PL**	2CLA210451N1301	5
Anthracite-W	**N2104.51 AN**	2CLA210451N1801	5
Champagne-W	**N2104.51 CV**	2CLA210451N1901	5
	**Push-button, SP without symbol - 2M** Rated voltage: 110 - 250 Vac. Rated current: 16A. Screwless terminals. 3 wires (Neutral conductor required). Included: indicator LED lamp N2192 BB (230 Vac).		
White-W	**N2204.51 BL**	2CLA220451N1101	5
Silver-W	**N2204.51 PL**	2CLA220451N1301	5
Anthracite-W	**N2204.51 AN**	2CLA220451N1801	5
Champagne-W	**N2204.51 CV**	2CLA220451N1901	5

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Push buttons

Color	Article-No.	Order-No.	Pack/Qty
	**Push-button, SP with bell symbol - 1M** Rated voltage: 110 - 250 Vac. Rated current: 16A. Screwless terminals. 1-gang, 1-way - Normally Opened (NO) contact. Optional: locator LED lamp N2191.		
White	**N2104 BL**	2CLA210400N1101	20
Silver	**N2104 PL**	2CLA210400N1301	20
Anthracite	**N2104 AN**	2CLA210400N1801	20
Champagne	**N2104 CV**	2CLA210400N1901	20
	**Push-button, SP with bell symbol - 2M** Rated voltage: 110 - 250 Vac. Rated current: 16A. Screwless terminals. 1-gang, 1-way - Normally Opened (NO) contact. Optional: locator LED lamp N2191.		
White	**N2204 BL**	2CLA220400N1101	10
Silver	**N2204 PL**	2CLA220400N1301	10
Anthracite	**N2204 AN**	2CLA220400N1801	10
Champagne	**N2204 CV**	2CLA220400N1901	10
	**Push-button, SP with bell symbol - 3M** Rated voltage: 110 - 250 Vac. Rated current: 16A. Screwless terminals. 1-gang, 1-way - Normally Opened (NO) contact. Optional: locator LED lamp N2191.		
White	**N2304 BL**	2CLA230400N1101	10
Silver	**N2304 PL**	2CLA230400N1301	10
Anthracite	**N2304 AN**	2CLA230400N1801	10
Champagne	**N2304 CV**	2CLA230400N1901	10

Color	Article-No.	Order-No.	Pack/Qty
	**Push-button, SP with light symbol - 1M** Rated voltage: 110 - 250 Vac. Rated current: 16A. Screwless terminals. 1-gang, 1-way - Normally Opened (NO) contact. Optional: locator LED lamp N2191.		
White	**N2104.2 BL**	2CLA210420N1101	20
Silver	**N2104.2 PL**	2CLA210420N1301	20
Anthracite	**N2104.2 AN**	2CLA210420N1801	20
Champagne	**N2104.2 CV**	2CLA210420N1901	20
	**Push-button, SP with light symbol - 2M** Rated voltage: 110 - 250 Vac. Rated current: 16A. Screwless terminals. 1-gang, 1-way - Normally Opened (NO) contact. Optional: locator LED lamp N2191.		
White	**N2204.2 BL**	2CLA220420N1101	10
Silver	**N2204.2 PL**	2CLA220420N1301	10
Anthracite	**N2204.2 AN**	2CLA220420N1801	10
Champagne	**N2204.2 CV**	2CLA220420N1901	10
	**Push-button, NC, SP without symbol - 1M** Rated voltage: 110 - 250 Vac. Rated current: 16A. Screwless terminals. 1-gang, 1-way - Normally Closed (NC) contact. Locator lamp option not available.		
White	**N2104.6 BL**	2CLA210460N1101	5
Silver	**N2104.6 PL**	2CLA210460N1301	5
Anthracite	**N2104.6 AN**	2CLA210460N1801	5
Champagne	**N2104.6 CV**	2CLA210460N1901	5
Total White	**N2104.6 BB**	2CLA210460N1201	5
Total Anthracite	**N2104.6 AA**	2CLA210460N1601	5
	**Push-button, NC, SP without symbol - 2M** Rated voltage: 110 - 250 Vac. Rated current: 16A. Screwless terminals. 1-gang, 1-way - Normally Closed (NC) contact Locator lamp option not available.		
White	**N2204.6 BL**	2CLA220460N1101	5
Silver	**N2204.6 PL**	2CLA220460N1301	5
Anthracite	**N2204.6 AN**	2CLA220460N1801	5
Champagne	**N2204.6 CV**	2CLA220460N1901	5
Total White	**N2204.6 BB**	2CLA220460N1201	5
Total Anthracite	**N2204.6 AA**	2CLA220460N1601	5

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Push buttons

Color	Article-No.	Order-No.	Pack/Qty
	**Push-button, SP without symbol - 1M** Rated voltage: 110 - 250 Vac. Rated current: 16A. Screwless terminals. 1-gang, 1-way - Normally Opened (NO) contact. Optional: locator LED lamp N2191.		
White	**N2104.7 BL**	2CLA210470N1101	20
Silver	**N2104.7 PL**	2CLA210470N1301	20
Anthracite	**N2104.7 AN**	2CLA210470N1801	20
Champagne	**N2104.7 CV**	2CLA210470N1901	20
Total White	**N2104.7 BB**	2CLA210470N1201	20
Total Anthracite	**N2104.7 AA**	2CLA210470N1601	20
	**Push-button, SP without symbol - 2M** Rated voltage: 110 - 250 Vac. Rated current: 16A. Screwless terminals. 1-gang, 1-way - Normally Opened (NO) contact. Optional: locator LED lamp N2191.		
White	**N2204.7 BL**	2CLA220470N1101	10
Silver	**N2204.7 PL**	2CLA220470N1301	10
Anthracite	**N2204.7 AN**	2CLA220470N1801	10
Champagne	**N2204.7 CV**	2CLA220470N1901	10
Total White	**N2204.7 BB**	2CLA220470N1201	10
Total Anthracite	**N2204.7 AA**	2CLA220470N1601	10
	**Push-button, SP with label holder - 2M** Rated voltage: 110 - 250 Vac. Rated current: 16A. Screwless terminals. 1-gang, 1-way - Normally Opened (NO) contact. Optional: locator LED lamp N2191.		
White	**N2204.8 BL**	2CLA220480N1101	10
Silver	**N2204.8 PL**	2CLA220480N1301	10
Anthracite	**N2204.8 AN**	2CLA220480N1801	10
Champagne	**N2204.8 CV**	2CLA220480N1901	10

Push button with screw-nut terminals

Color	Article-No.	Order-No.	Pack/Qty
	**Push-button, SP without symbol - 1M** NEW Rated voltage: 110 - 250 Vac. Rated current: 16A. Screw-nut type terminals. 1-gang, 1-way - Normally Opened (NO) contact. Optional: locator LED lamp N2194 BB, N21941 BB or N2194.2 BB.		
White	**N2104.7T BL**	2CLA210479N1101	20
Silver	**N2104.7T PL**	2CLA210479N1301	20
Anthracite	**N2104.7T AN**	2CLA210479N1801	20
Champagne	**N2104.7T CV**	2CLA210479N1901	20
Total White	**N2104.7T BB**	2CLA210479N1201	20
Total Anthracite	**N2104.7T AA**	2CLA210479N1601	20

Zenit

Rocker covers with engraved symbols

Color	Article-No.	Order-No.	Pack/Qty
	**Rocker cover without symbol - 1M** Spare rocker cover without decorative trim. Suitable for N2101.X, N2102.X, N2110 and N2104.X inserts.		
White	**N2109 BL**	2CLA210900N1101	10
Silver	**N2109 PL**	2CLA210900N1301	10
Anthracite	**N2109 AN**	2CLA210900N1801	10
Champagne	**N2109 CV**	2CLA210900N1901	10
	**Rocker cover without symbol - 2M** Spare rocker cover without decorative trim. Suitable for N2201.X, N2202.X, N2210 and N2204.X inserts.		
White	**N2209 BL**	2CLA220900N1101	10
Silver	**N2209 PL**	2CLA220900N1301	10
Anthracite	**N2209 AN**	2CLA220900N1801	10
Champagne	**N2209 CV**	2CLA220900N1901	10
	**Rocker cover with nurse symbol - 1M** Spare rocker cover without decorative trim. Suitable for N2101.X, N2102.X, N2110 and N2104.X inserts.		
White	**N2109.01 BL**	2CLA210901N1101	10
Silver	**N2109.01 PL**	2CLA210901N1301	10
Anthracite	**N2109.01 AN**	2CLA210901N1801	10
Champagne	**N2109.01 CV**	2CLA210901N1901	10
	**Rocker cover with nurse symbol - 2M** Spare rocker cover without decorative trim. Suitable for N2201.X, N2202.X, N2210 and N2204.X inserts.		
White	**N2209.01 BL**	2CLA220901N1101	10
Silver	**N2209.01 PL**	2CLA220901N1301	10
Anthracite	**N2209.01 AN**	2CLA220901N1801	10
Champagne	**N2209.01 CV**	2CLA220901N1901	10

Color	Article-No.	Order-No.	Pack/Qty
	**Rocker cover with lamp symbol - 1M** Spare rocker cover without decorative trim. Suitable for N2101.X, N2102.X, N2110 and N2104.X inserts.		
White	**N2109.02 BL**	2CLA210902N1101	10
Silver	**N2109.02 PL**	2CLA210902N1301	10
Anthracite	**N2109.02 AN**	2CLA210902N1801	10
Champagne	**N2109.02 CV**	2CLA210902N1901	10
	**Rocker cover with lamp symbol - 2M** Spare rocker cover without decorative trim. Suitable for N2201.X, N2202.X, N2210 and N2204.X inserts.		
White	**N2209.02 BL**	2CLA220902N1101	10
Silver	**N2209.02 PL**	2CLA220902N1301	10
Anthracite	**N2209.02 AN**	2CLA220902N1801	10
Champagne	**N2209.02 CV**	2CLA220902N1901	10
	**Rocker cover with dimmer symbol - 1M** Spare rocker cover without decorative trim. Suitable for N2101.X, N2102.X, N2110 and N2104.X inserts.		
White	**N2109.03 BL**	2CLA210903N1101	10
Silver	**N2109.03 PL**	2CLA210903N1301	10
Anthracite	**N2109.03 AN**	2CLA210903N1801	10
Champagne	**N2109.03 CV**	2CLA210903N1901	10
	**Rocker cover with dimmer symbol - 2M** Spare rocker cover without decorative trim. Suitable for N2201.X, N2202.X, N2210 and N2204.X inserts.		
White	**N2209.03 BL**	2CLA220903N1101	10
Silver	**N2209.03 PL**	2CLA220903N1301	10
Anthracite	**N2209.03 AN**	2CLA220903N1801	10
Champagne	**N2209.03 CV**	2CLA220903N1901	10

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Rocker covers with engraved symbols

Color	Article-No.	Order-No.	Pack/Qty
	**Rocker cover with fan symbol - 1M** Spare rocker cover without decorative trim. Suitable for N2101.X, N2102.X, N2110 and N2104.X inserts.		
White	**N2109.04 BL**	2CLA210904N1101	10
Silver	**N2109.04 PL**	2CLA210904N1301	10
Anthracite	**N2109.04 AN**	2CLA210904N1801	10
Champagne	**N2109.04 CV**	2CLA210904N1901	10
	**Rocker cover with fan symbol - 2M** Spare rocker cover without decorative trim. Suitable for N2201.X, N2202.X, N2210 and N2204.X inserts.		
White	**N2209.04 BL**	2CLA220904N1101	10
Silver	**N2209.04 PL**	2CLA220904N1301	10
Anthracite	**N2209.04 AN**	2CLA220904N1801	10
Champagne	**N2209.04 CV**	2CLA220904N1901	10
	**Rocker cover with telephone symbol - 1M** Spare rocker cover without decorative trim. Suitable for N2101.X, N2102.X, N2110 and N2104.X inserts.		
White	**N2109.05 BL**	2CLA210905N1101	10
Silver	**N2109.05 PL**	2CLA210905N1301	10
Anthracite	**N2109.05 AN**	2CLA210905N1801	10
Champagne	**N2109.05 CV**	2CLA210905N1901	10
	**Rocker cover with telephone symbol - 2M** Spare rocker cover without decorative trim. Suitable for N2201.X, N2202.X, N2210 and N2204.X inserts.		
White	**N2209.05 BL**	2CLA220905N1101	10
Silver	**N2209.05 PL**	2CLA220905N1301	10
Anthracite	**N2209.05 AN**	2CLA220905N1801	10
Champagne	**N2209.05 CV**	2CLA220905N1901	10

Color	Article-No.	Order-No.	Pack/Qty
	**Rocker cover with open symbol - 1M** Spare rocker cover without decorative trim. Suitable for N2101.X, N2102.X, N2110 and N2104.X inserts.		
White	**N2109.06 BL**	2CLA210906N1101	10
Silver	**N2109.06 PL**	2CLA210906N1301	10
Anthracite	**N2109.06 AN**	2CLA210906N1801	10
Champagne	**N2109.06 CV**	2CLA210906N1901	10
	**Rocker cover with open symbol - 2M** Spare rocker cover without decorative trim. Suitable for N2201.X, N2202.X, N2210 and N2204.X inserts.		
White	**N2209.06 BL**	2CLA220906N1101	10
Silver	**N2209.06 PL**	2CLA220906N1301	10
Anthracite	**N2209.06 AN**	2CLA220906N1801	10
Champagne	**N2209.06 CV**	2CLA220906N1901	10
	**Rocker cover with close symbol - 1M** Spare rocker cover without decorative trim. Suitable for N2101.X, N2102.X, N2110 and N2104.X inserts.		
White	**N2109.07 BL**	2CLA210907N1101	10
Silver	**N2109.07 PL**	2CLA210907N1301	10
Anthracite	**N2109.07 AN**	2CLA210907N1801	10
Champagne	**N2109.07 CV**	2CLA210907N1901	10
	**Rocker cover with close symbol - 2M** Spare rocker cover without decorative trim. Suitable for N2201.X, N2202.X, N2210 and N2204.X inserts.		
White	**N2209.07 BL**	2CLA220907N1101	10
Silver	**N2209.07 PL**	2CLA220907N1301	10
Anthracite	**N2209.07 AN**	2CLA220907N1801	10
Champagne	**N2209.07 CV**	2CLA220907N1901	10

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Rocker covers with engraved symbols

Color	Article-No.	Order-No.	Pack/Qty
	**Rocker cover with OFF symbol - 1M** Spare rocker cover without decorative trim. Suitable for N2101.X, N2102.X, N2110 and N2104.X inserts.		
White	**N2109.08 BL**	2CLA210908N1101	10
Silver	**N2109.08 PL**	2CLA210908N1301	10
Anthracite	**N2109.08 AN**	2CLA210908N1801	10
Champagne	**N2109.08 CV**	2CLA210908N1901	10
	**Rocker cover with OFF symbol - 2M** Spare rocker cover without decorative trim. Suitable for N2201.X, N2202.X, N2210 and N2204.X inserts.		
White	**N2209.08 BL**	2CLA220908N1101	10
Silver	**N2209.08 PL**	2CLA220908N1301	10
Anthracite	**N2209.08 AN**	2CLA220908N1801	10
Champagne	**N2209.08 CV**	2CLA220908N1901	10
	**Rocker cover with DND symbol - 1M** Spare rocker cover without decorative trim. Suitable for N2101.X, N2102.X, N2110 and N2104.X inserts.		
White	**N2109.09 BL**	2CLA210909N1101	10
Silver	**N2109.09 PL**	2CLA210909N1301	10
Anthracite	**N2109.09 AN**	2CLA210909N1801	10
Champagne	**N2109.09 CV**	2CLA210909N1901	10
	**Rocker cover with DND symbol - 2M** Spare rocker cover without decorative trim. Suitable for N2201.X, N2202.X, N2210 and N2204.X inserts.		
White	**N2209.09 BL**	2CLA220909N1101	10
Silver	**N2209.09 PL**	2CLA220909N1301	10
Anthracite	**N2209.09 AN**	2CLA220909N1801	10
Champagne	**N2209.09 CV**	2CLA220909N1901	10

Color	Article-No.	Order-No.	Pack/Qty
	**Rocker cover with MUR symbol - 1M** Spare rocker cover without decorative trim. Suitable for N2101.X, N2102.X, N2110 and N2104.X inserts.		
White	**N2109.10 BL**	2CLA210910N1101	10
Silver	**N2109.10 PL**	2CLA210910N1301	10
Anthracite	**N2109.10 AN**	2CLA210910N1801	10
Champagne	**N2109.10 CV**	2CLA210910N1901	10
	**Rocker cover with MUR symbol - 2M** Spare rocker cover without decorative trim. Suitable for N2201.X, N2202.X, N2210 and N2204.X inserts.		
White	**N2209.10 BL**	2CLA220910N1101	10
Silver	**N2209.10 PL**	2CLA220910N1301	10
Anthracite	**N2209.10 AN**	2CLA220910N1801	10
Champagne	**N2209.10 CV**	2CLA220910N1901	10
	**Rocker cover with light symbol - 1M** Spare rocker cover without decorative trim. Suitable for N2101.X, N2102.X, N2110 and N2104.X inserts.		
White	**N2109.11 BL**	2CLA210911N1101	10
Silver	**N2109.11 PL**	2CLA210911N1301	10
Anthracite	**N2109.11 AN**	2CLA210911N1801	10
Champagne	**N2109.11 CV**	2CLA210911N1901	10
	**Rocker cover with light symbol - 2M** Spare rocker cover without decorative trim. Suitable for N2201.X, N2202.X, N2210 and N2204.X inserts.		
White	**N2209.11 BL**	2CLA220911N1101	10
Silver	**N2209.11 PL**	2CLA220911N1301	10
Anthracite	**N2209.11 AN**	2CLA220911N1801	10
Champagne	**N2209.11 CV**	2CLA220911N1901	10

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Push-button & switch for BA/HA sensors

Color	Article-No.	Order-No.	Pack/Qty
	Push-button NA+NA 2-gang - 1M Rated voltage: 250 Vac. Rated current: 10A. Compatible with N2109.4X rockers.		
	N2144	2CLA214400N1001	5
	Switch center-off 2-gang - 1M Rated voltage: 250 Vac. Rated current: 10(3)A. Compatible with N2109.4X rockers.		
White	**N2144.1 BL**	2CLA214410N1101	5
	Rocker cover without symbol - 1M Rocker cover without symbol for N2144 push-button and N2144.1 switch.		
White	**N2109.40 BL**	2CLA210940N1101	10
Silver	**N2109.40 PL**	2CLA210940N1301	10
Anthracite	**N2109.40 AN**	2CLA210940N1801	10
Champagne	**N2109.40 CV**	2CLA210940N1901	10
Total White	**N2109.40 BB**	2CLA210940N1201	10
Total Anthracite	**N2109.40 AA**	2CLA210940N1601	10
	Rocker cover with lamp symbol - 1M Rocker cover with lamp symbol for N2144 push-button and N2144.1 switch.		
White	**N2109.42 BL**	2CLA214442N1101	10
Silver	**N2109.42 PL**	2CLA214442N1301	10
Anthracite	**N2109.42 AN**	2CLA214442N1801	10
Champagne	**N2109.42 CV**	2CLA214442N1901	10
Total White	**N2109.42 BB**	2CLA214442N1201	10
Total Anthracite	**N2109.42 AA**	2CLA214442N1601	10
	Rocker cover with blind symbol - 1M Rocker cover with blind symbol for N2144 push-button and N2144.1 switch.		
White	**N2109.43 BL**	2CLA210943N1101	10
Silver	**N2109.43 PL**	2CLA210943N1301	10
Anthracite	**N2109.43 AN**	2CLA210943N1801	10
Champagne	**N2109.43 CV**	2CLA210943N1901	10
Total White	**N2109.43 BB**	2CLA210943N1201	10
Total Anthracite	**N2109.43 AA**	2CLA210943N1601	10

Color	Article-No.	Order-No.	Pack/Qty
	Rocker cover with DND/MUR symbol - 1M Rocker cover with DND/MUR symbol for N2144 push-button and N2144.1 switch.		
White	**N2109.44 BL**	2CLA210944N1101	10
Silver	**N2109.44 PL**	2CLA210944N1301	10
Anthracite	**N2109.44 AN**	2CLA210944N1801	10
Champagne	**N2109.44 CV**	2CLA210944N1901	10
Total White	**N2109.44 BB**	2CLA210944N1201	10
Total Anthracite	**N2109.44 AA**	2CLA210944N1601	10
	Rocker cover with ON/OFF symbol - 1M Rocker cover with ON/OFF symbol for N2144 push-button and N2144.1 switch.		
White	**N2109.45 BL**	2CLA210945N1101	10
Silver	**N2109.45 PL**	2CLA210945N1301	10
Anthracite	**N2109.45 AN**	2CLA210945N1801	10
Champagne	**N2109.45 CV**	2CLA210945N1901	10
Total White	**N2109.45 BB**	2CLA210945N1201	10
Total Anthracite	**N2109.45 AA**	2CLA210945N1601	10
	Rocker cover with dimmer symbol - 1M Rocker cover with dimmer symbol for N2144 push-button and N2144.1 switch.		
White	**N2109.46 BL**	2CLA210946N1101	10
Silver	**N2109.46 PL**	2CLA210946N1301	10
Anthracite	**N2109.46 AN**	2CLA210946N1801	10
Champagne	**N2109.46 CV**	2CLA210946N1901	10
Total White	**N2109.46 BB**	2CLA210946N1201	10
Total Anthracite	**N2109.46 AA**	2CLA210946N1601	10
	Rocker cover with scene symbol - 1M Rocker cover with scene symbol for N2144 push-button and N2144.1 switch.		
White	**N2121.9 BL**	2CLA210947N1101	10
Silver	**N2121.9 PL**	2CLA210947N1301	10
Anthracite	**N2121.9 AN**	2CLA210947N1801	10
Champagne	**N2121.9 CV**	2CLA210947N1901	10
Total White	**N2121.9 BB**	2CLA210947N1201	10
Total Anthracite	**N2121.9 AA**	2CLA210947N1601	10

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Card switches

Color	Article-No.	Order-No.	Pack/Qty
	**Card switch 1-gang, 1-way, DP - 2M** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. For 54mm width cards. Included: locator LED lamp N2193 NG (230 Vac).		
White	**N2214.1 BL**	2CLA221410N1101	10
Silver	**N2214.1 PL**	2CLA221410N1301	10
Anthracite	**N2214.1 AN**	2CLA221410N1801	10
Champagne	**N2214.1 CV**	2CLA221410N1901	10
	**Card timer switch 1-gang, 1-way, SP - 2M** Rated current (230Vac / 127Vac): - Incandescent/halogen: 3.000W / 1.600W. - Fluorescent: 1.300VA / 700VA. - Electronic and ferromag. transf. and motors: 3.000VA / 1.600VA. For 54mm width cards. Locator LED lamp included. Time delayed switch: 5 - 90 seconds.		
White	**N2214.5 BL**	2CLA221450N1101	1
Silver	**N2214.5 PL**	2CLA221450N1301	1
Anthracite	**N2214.5 AN**	2CLA221450N1801	1
Champagne	**N2214.5 CV**	2CLA221450N1901	1

Pullcord switches

	**Pullcord switch 1-gang, 1-way, SP - 1M** Rated voltage: 110 - 250 Vac. Rated current: 16A. Screwless terminals. Cord length: 2 meters.		
White	**N2148 BL**	2CLA214800N1101	5
Silver	**N2148 PL**	2CLA214800N1301	5
Anthracite	**N2148 AN**	2CLA214800N1801	5
Champagne	**N2148 CV**	2CLA214800N1901	5
Total White	**N2148 BB**	2CLA214800N1201	5
Total Anthracite	**N2148 AA**	2CLA214800N1601	5
	**Pullcord switch 1-gang, 1-way, SP - 2M** Rated voltage: 110 - 250 Vac. Rated current: 16A. Screwless terminals. Cord length: 2 meters.		
White	**N2248 BL**	2CLA224800N1101	5
Silver	**N2248 PL**	2CLA224800N1301	5
Anthracite	**N2248 AN**	2CLA224800N1801	5
Champagne	**N2248 CV**	2CLA224800N1901	5

Key switches

Color	Article-No.	Order-No.	Pack/Qty
	**Key switch 2-way, 3 positions, SP - 1M** Rated voltage: 110 - 250 Vac. Rated current: 5A. Key removable in the 3 positions. Unique key for each lock. Suitable for blinds, shutters, etc.		
White	**N2153.1 BL**	2CLA215310N1101	1
Silver	**N2153.1 PL**	2CLA215310N1301	1
Anthracite	**N2153.1 AN**	2CLA215310N1801	1
Champagne	**N2153.1 CV**	2CLA215310N1901	1
	**Key switch 1-way, 2 positions, SP - 2M** Rated voltage: 110 - 250 Vac. Rated current: 5A. Key removable in the 2 positions. Unique key for each lock. Suitable for alarms.		
White	**N2253 BL**	2CLA225300N1101	1
Silver	**N2253 PL**	2CLA225300N1301	1
Anthracite	**N2253 AN**	2CLA225300N1801	1
Champagne	**N2253 CV**	2CLA225300N1901	1
	**Key switch 2-way, 3 positions, SP - 2M** Rated voltage: 110 - 250 Vac. Rated current: 150mA. Key removable in “OFF” position. Unique key for each lock. Suitable for blinds, shutters, etc.		
White	**N2253.1 BL**	2CLA225310N1101	1
Silver	**N2253.1 PL**	2CLA225310N1301	1
Anthracite	**N2253.1 AN**	2CLA225310N1801	1
Champagne	**N2253.1 CV**	2CLA225310N1901	1
	**Key push-button 1-way, 2 positions, SP - 2M** Rated voltage: 110 - 250 Vac. Rated current: 5A. Key removable in “OFF” position. Unique key for each lock. Suitable for alarms.		
White	**N2253.2 BL**	2CLA225320N1101	1
Silver	**N2253.2 PL**	2CLA225320N1301	1
Anthracite	**N2253.2 AN**	2CLA225320N1801	1
Champagne	**N2253.2 CV**	2CLA225320N1901	1

Zenit
Blind controls

Color	Article-No.	Order-No.	Pack/Qty
	**Push-button blind control 1-gang - 1M** Rated voltage: 110 - 250 Vac. Rated current: 10A. Direct control.		
White	**N2144 BL**	2CLA214400N1101	5
Silver	**N2144 PL**	2CLA214400N1301	5
Anthracite	**N2144 AN**	2CLA214400N1801	5
Champagne	**N2144 CV**	2CLA214400N1901	5
Total White	**N2144 BB**	2CLA214400N1201	5
Total Anthracite	**N2144 AA**	2CLA214400N1601	5
	**Push-button blind control 2-gangs - 2M** Rated voltage: 110 - 250 Vac. Rated current: 16A. Direct control. Interlocked gangs.		
White	**N2244 BL**	2CLA224400N1101	5
Silver	**N2244 PL**	2CLA224400N1301	5
Anthracite	**N2244 AN**	2CLA224400N1801	5
Champagne	**N2244 CV**	2CLA224400N1901	5
	**Switch blind control 1-gang - 1M** Rated voltage: 110 - 250 Vac. Rated current: 10(3)A. Direct control.		
White	**N2144.1 BL**	2CLA214410N1101	5
Silver	**N2144.1 PL**	2CLA214410N1301	5
Anthracite	**N2144.1 AN**	2CLA214410N1801	5
Champagne	**N2144.1 CV**	2CLA214410N1901	5
Total White	**N2144.1 BB**	2CLA214410N1201	5
Total Anthracite	**N2144.1 AA**	2CLA214410N1601	5
	**Switch blind control 2-gangs - 2M** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Direct control. Interlocked gangs.		
White	**N2244.1 BL**	2CLA224410N1101	5
Anthracite	**N2244.1 AN**	2CLA224410N1301	5
Silver	**N2244.1 PL**	2CLA224410N1801	5
Champagne	**N2244.1 CV**	2CLA224410N1901	5

Color	Article-No.	Order-No.	Pack/Qty
	**Electronic blind control 1-gang - 2M** Rated voltage: 110 - 250 Vac; 50/60 Hz. Rated current: 700VA@230Vac / 350VA@127Vac. Direct control. Green locator LED included. Functions: - PERS: standard blinds control. Optionally other N2244 inserts can be connected to the N2261.2 to control the blind from other locations. - LAM: venetian type blinds control. Optionally other N2244 inserts can be connected to the N2261.2 to control the blind from other locations. - Centralization (CEN): one N2261.2 can control all the N2261.2 centrally.		
White	**N2261.2 BL**	2CLA226120N1101	1
Silver	**N2261.2 PL**	2CLA226120N1301	1
Anthracite	**N2261.2 AN**	2CLA226120N1801	1
Champagne	**N2261.2 CV**	2CLA226120N1901	1
	**Electronic blind control 1-gang - 2M** Rated voltage: 110 - 250 Vac; 50/60 Hz. Rated current: 700VA@230Vac / 350VA@127Vac. Direct control. White locator LED included. Functions: - PERS: standard blinds control. Optionally other N2244 inserts can be connected to the N2261.2 to control the blind from other locations. - LAM: venetian type blinds control. Optionally other N2244 inserts can be connected to the N2261.2 to control the blind from other locations. - Centralization (CEN): one N2261.2 can control all the N2261.2 centrally.		
White-W	**N2261.21 BL**	2CLA226121N1201	1
Silver-W	**N2261.21 PL**	2CLA226121N1101	1
Anthracite-W	**N2261.21 AN**	2CLA226121N1601	1
Champagne-W	**N2261.21 CV**	2CLA226121N1901	1

Zenit
Socket outlets

Color	Article-No.	Order-No.	Pack/Qty
	**Locator LED lamp kit - Card switch** Suitable for N2214.1 card switches. LED lamp. N2193 NG & N2193 BB: 230Vac / 0,7mA N2193 VD: 127Vac / 0,7mA Tooless front connection.		
Green	**N2193 NG**	2CLA219310N1001	20
Green	**N2193 VD**	2CLA219300N1001	20
White	**N2193 BB**	2CLA219300N1201	20
	**Locator lamp kit - 1-way SP switches and push-buttons** Suitable for 1-way SP switches and SP NO push-buttons. LED lamp. N2191 VD & N2191 BB: 230Vac / 0,2mA N2191 BL: 127Vac / 0,2mA Tooless front connection. Includes diffusers for 1 and 2 module rocker covers. Rated current: <0,2 mA. Specially designed for CFL and LED lamps.		
Green	**N2191 VD**	2CLA219100N1001	10
Green	**N2191 BL**	2CLA219110N1001	10
White	**N2191 BB**	2CLA219100N1201	10
	**Locator lamp kit - DP, 2-way and intermediate switches** Suitable for 1-way DP switches, 2-way SP switches and intermediate switches. LED lamp. N2192 RJ & N2192 BB: 230Vac / 0,2mA N2192 NG: 127Vac / 0,2mA N2192.2 BB: 24V / 2mA Tooless front connection. Includes diffusers for 1 and 2 module rocker covers. Rated current: <0,2 mA. Specially designed for CFL and LED lamps.		
Green	**N2192 RJ**	2CLA219200N1001	10
Green	**N2192 NG**	2CLA219210N1001	10
White	**N2192 BB**	2CLA219200N1201	10
White	**N2192.2 BB**	2CLA219220N1201	10
	Locator LED lamp for screw-nut switch / push-button NEW Suitable for N2101.T, N2101.2T, N2102.T and N2110.T switches and N2104.7T push-buttons. LED lamp. N2194 BB: 230 Vac N2194.1 BB: 127 Vac N2194.2 BB: 24 V Tooless front connection.		
White	**N2194 BB**	2CLA219400N1201	20
White	**N2194.1 BB**	2CLA219410N1201	20
White	**N2194.2 BB**	2CLA219420N1201	20

Color	Article-No.	Order-No.	Pack/Qty
	**Decorative trim - 1M** Spare decorative trim. Suitable for N2101.X, N2102.X, N2110 and N2104.X inserts.		
Green diffuser	**N2170 VD**	2CLA217000N1001	20
White diffuser	**N2170 TL**	2CLA217000N1201	20
White	**N2170 BL**	2CLA217000N1101	20
Anthracite	**N2170 AN**	2CLA217000N1401	20
Chrome	**N2170 CR**	2CLA217000N1801	20
Champagne	**N2170 CV**	2CLA217000N1901	20
	**Decorative trim - 1,5M** Spare decorative trim. Suitable for N2801, N2802 and N2810 inserts.		
White	**N2870 BL**	2CLA287000N1101	20
Anthracite	**N2870 AN**	2CLA287000N1801	20
Champagne	**N2870 CV**	2CLA287000N1901	20
	**Decorative trim - 2M** Spare decorative trim. Suitable for N2201.X, N2202.X, N2210 and N2204.X inserts.		
Green diffuser	**N2270 VD**	2CLA227000N1001	20
White diffuser	**N2270 TL**	2CLA227000N1201	20
White	**N2270 BL**	2CLA227000N1101	20
Chrome	**N2270 CR**	2CLA227000N1401	20
Anthracite	**N2270 AN**	2CLA227000N1801	20
Champagne	**N2270 CV**	2CLA227000N1901	20
	**Decorative trim - 3M** Spare decorative trim. Suitable for N2301, N2302, N2310 and N2304 inserts.		
White	**N2370 BL**	2CLA237000N1101	20
Anthracite	**N2370 AN**	2CLA237000N1801	20
Champagne	**N2370 CV**	2CLA237000N1901	20

Zenit
Socket outlets



Schuko socket outlet - 2M
Rated voltage: 250 Vac.
Rated current: 16A.
Type F: 2P + E.
Shuttered for child safety.
Screw terminals.

Color	Article-No.	Order-No.	Pack/Qty
White	**N2288 BL**	2CLA228800N1101	10
Silver	**N2288 PL**	2CLA228800N1301	10
Anthracite	**N2288 AN**	2CLA228800N1801	10
Champagne	**N2288 CV**	2CLA228800N1901	10
Red	**N2288 RJ**	2CLA228800N7001	5
Green	**N2288 VD**	2CLA228800N8001	5
Orange	**N2288 NA**	2CLA228800N9001	5



Schuko socket outlet srewless terminal - 2M
Rated voltage: 250 Vac.
Rated current: 16A.
Type F: 2P + E.
Shuttered for child safety.
Screwless terminals.

Color	Article-No.	Order-No.	Pack/Qty
White	**N2288.6 BL**	2CLA228860N1101	10
Silver	**N2288.6 PL**	2CLA228860N1301	10
Anthracite	**N2288.6 AN**	2CLA228860N1801	10
Champagne	**N2288.6 CV**	2CLA228860N1901	10



Schuko socket outlet with lid - 2M
Rated voltage: 250 Vac.
Rated current: 16A.
Type F: 2P + E.
Shuttered for child safety.
Screw terminals.
Lid with notch. 180° opening.

Color	Article-No.	Order-No.	Pack/Qty
White	**N2288.1 BL**	2CLA228810N1101	10
Silver	**N2288.1 PL**	2CLA228810N1301	10
Anthracite	**N2288.1 AN**	2CLA228810N1801	10
Champagne	**N2288.1 CV**	2CLA228810N1901	10



European unearthed socket outlet - 2M
Rated voltage: 250 Vac.
Rated current: 16A.
Type C: 2P (non earthed).
Shuttered for child safety.
Screw terminals.

Color	Article-No.	Order-No.	Pack/Qty
White	**N2203 BL**	2CLA220300N1101	10
Silver	**N2203 PL**	2CLA220300N1301	10
Anthracite	**N2203 AN**	2CLA220300N1801	10
Champagne	**N2203 CV**	2CLA220300N1901	10



French/Earth-pin socket outlet - 2M
Rated voltage: 250 Vac.
Rated current: 16A.
Type E: 2P + E.
Shuttered for child safety.
Screw terminals.

Color	Article-No.	Order-No.	Pack/Qty
White	**N2287 BL**	2CLA228700N1101	10
Silver	**N2287 PL**	2CLA228700N1301	10
Anthracite	**N2287 AN**	2CLA228700N1801	10
Champagne	**N2287 CV**	2CLA228700N1901	10
Red	**N2287 RJ**	2CLA228770N1001	10



French/Earth-pin socket outlet screwless - 2M
Rated voltage: 250 Vac.
Rated current: 16A.
Type E: 2P + E.
Shuttered for child safety.
Screwless terminals.

Color	Article-No.	Order-No.	Pack/Qty
White	**N2287.6 BL**	2CLA228760N1101	10
Silver	**N2287.6 PL**	2CLA228760N1301	10
Anthracite	**N2287.6 AN**	2CLA228760N1801	10
Champagne	**N2287.6 CV**	2CLA228760N1901	10
Red	**N2287.6 RJ**	2CLA228760N7001	10
Green	**N2287.6 VD**	2CLA228760N8001	10



Italian / German socket outlet - 2M
Rated voltage: 250 Vac.
Rated current: 10 / 16A.
Type F+L: 2P + E / P30/17.
Shuttered for child safety.
Screw terminals.

Color	Article-No.	Order-No.	Pack/Qty
White	**N2233 BL**	2CLA223300N1101	10
Silver	**N2233 PL**	2CLA223300N1301	10
Anthracite	**N2233 AN**	2CLA223300N1801	10
Champagne	**N2233 CV**	2CLA223300N1901	10
Red	**N2233 RJ**	2CLA223300N7001	10

Zenit
Socket outlets

Color	Article-No.	Order-No.	Pack/Qty
	**Italian 10/16A socket outlet - 1M** Rated voltage: 250 Vac. Rated current: 10 / 16A. Type L: 2P + E / P17/11. Shuttered for child safety. Screw terminals.		
White	**N2133 BL**	2CLA213300N1101	20
Silver	**N2133 PL**	2CLA213300N1301	20
Anthracite	**N2133 AN**	2CLA213300N1801	20
Champagne	**N2133 CV**	2CLA213300N1901	20
Red	**N2133 RJ**	2CLA213300N7001	20
	**Italian 10A socket outlet - 1M** Rated voltage: 250 Vac. Rated current: 10A. Type L: 2P + E / P11. Shuttered for child safety. Screw terminals.		
White	**N2133.1 BL**	2CLA213310N1101	20
Silver	**N2133.1 PL**	2CLA213310N1301	20
Anthracite	**N2133.1 AN**	2CLA213310N1801	20
Champagne	**N2133.1 CV**	2CLA213310N1901	20
Red	**N2133.1 RJ**	2CLA213310N7001	20
	**American earthed socket outlet - 1M** Rated voltage: 125 Vac. Rated current: 15A. Type B: 2P + E / NEMA 5-15R. Shuttered for child safety. Screw terminals.		
White	**N2128 BL**	2CLA212800N1101	20
Silver	**N2128 PL**	2CLA212800N1301	20
Anthracite	**N2128 AN**	2CLA212800N1801	20
Champagne	**N2128 CV**	2CLA212800N1901	20
	**American earthed duplex socket outlet - 3M** Rated voltage: 125 Vac. Rated current: 15A. Type B: 2P + E / NEMA 5-15R. Duplex outlet. Shuttered for child safety. Screw terminals.		
White	**N2328 BL**	2CLA232800N1101	20
Silver	**N2328 PL**	2CLA232800N1301	20
Anthracite	**N2328 AN**	2CLA232800N1801	20
Champagne	**N2328 CV**	2CLA232800N1901	20

Color	Article-No.	Order-No.	Pack/Qty
	**Euro-American unearthed socket outlet - 1M** Rated voltage: 125 / 250 Vac. Rated current: 15 / 16A. Type A+C: 2P / NEMA 1-15R (non-earthed). Screw terminals.		
White	**N2135 BL**	2CLA213501N1101	20
Silver	**N2135 PL**	2CLA213501N1301	20
Anthracite	**N2135 AN**	2CLA213501N1801	20
Champagne	**N2135 CV**	2CLA213501N1901	20
	**Euro-American earthed socket outlet - 1M** Rated voltage: 125 / 250 Vac. Rated current: 15 / 16 A. Type B+C: 2P / NEMA 5-15R. Shuttered for child safety. Screw terminals.		
White	**N2138 BL**	2CLA213800N1101	20
Silver	**N2138 PL**	2CLA213800N1301	20
Anthracite	**N2138 AN**	2CLA213800N1801	20
Champagne	**N2138 CV**	2CLA213800N1901	20
	**Euro-American earthed socket outlet - 2M** Rated voltage: 125 / 250 Vac. Rated current: 15 / 16A. Type B+C: 2P / NEMA 5-15R. Shuttered for child safety. Screw terminals.		
White	**N2238 BL**	2CLA223801N1101	10
Silver	**N2238 PL**	2CLA223801N1301	10
Anthracite	**N2238 AN**	2CLA223801N1801	10
Champagne	**N2238 CV**	2CLA223801N1901	10
	**Euro-American duplex socket outlet - 3M** Rated voltage: 125 / 250 Vac. Rated current: 15 / 16A. Type B+C: 2P / NEMA 5-15R. Duplex outlet. Shuttered for child safety. Screw terminals		
White	**N2338 BL**	2CLA233800N1101	20
Silver	**N2338 PL**	2CLA233800N1301	20
Anthracite	**N2338 AN**	2CLA233800N1801	20
Champagne	**N2338 CV**	2CLA233800N1901	20

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Socket outlets

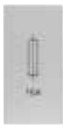
Color	Article-No.	Order-No.	Pack/Qty
	**Brazilian 10A socket outlet - 1M** Rated voltage: 250 Vac. Rated current: 10 A. Type N: 2P + E. Shuttered for child safety. Screw terminals.		
White	**N2136 BL**	2CLA213600N1101	20
Silver	**N2136 PL**	2CLA213600N1301	20
Anthracite	**N2136 AN**	2CLA213600N1801	20
Champagne	**N2136 CV**	2CLA213600N1901	20
Red	**N2136 RJ**	2CLA213600N7001	20
	**Brazilian 20A socket outlet - 1M** Rated voltage: 250 Vac. Rated current: 20 A. Type N: 2P + E. Shuttered for child safety. Screw terminals.		
White	**N2136.2 BL**	2CLA213620N1101	20
Silver	**N2136.2 PL**	2CLA213620N1301	20
Anthracite	**N2136.2 AN**	2CLA213620N1801	20
Champagne	**N2136.2 CV**	2CLA213620N1901	20
Red	**N2136.2 RJ**	2CLA213620N7001	20
	**British type socket outlet - 2M** Rated voltage: 250 Vac. Rated current: 13A. Type G: 2P + E. Without switch. Shuttered for child safety. Screw terminals.		
White	**N2237 BL**	2CLA223700N1101	10
Silver	**N2237 PL**	2CLA223700N1301	10
Anthracite	**N2237 AN**	2CLA223700N1801	10
Champagne	**N2237 CV**	2CLA223700N1901	10
	**Universal socket outlet - 2M** Rated voltage: 125 / 250 Vac. Rated current: 13 / 16A. Multiple type: 2P + E. Shuttered for child safety. Screw terminals.		
White	**N2239 BL**	2CLA223900N1101	10
Silver	**N2239 PL**	2CLA223900N1301	10
Anthracite	**N2239 AN**	2CLA223900N1801	10
Champagne	**N2239 CV**	2CLA223900N1901	10

USB chargers

Color	Article-No.	Order-No.	Pack/Qty
	**USB charger type-A 3,75W, 1-gang - 1M** Input: 100 - 240 Vac ±10 %; 50/60 Hz. Max. 0,12 A. Output: 5 Vdc ±5 %. 750 mA. Power consumption in stand-by: <= 0,3W@230Vac. Energy efficiency: >= 66 %.		
White	**N2185 BL**	2CLA218500N1101	1
Silver	**N2185 PL**	2CLA218500N1301	1
Anthracite	**N2185 AN**	2CLA218500N1801	1
Champagne	**N2185 CV**	2CLA218500N1901	1
	**USB charger type-A 10W, 1-gang - 1M** Input: 100 - 230 Vac ±10 %; 50/60 Hz. Max. 0,20 A. Output: 5 Vdc ±5 %. 2 A. Power consumption in stand-by: <= 0,01W@230Vac. Energy efficiency: >= 79 %.		
White	**N2185.2 BL**	2CLA218520N1101	1
Silver	**N2185.2 PL**	2CLA218520N1301	1
Anthracite	**N2185.2 AN**	2CLA218520N1801	1
Champagne	**N2185.2 CV**	2CLA218520N1901	1
	**USB charger type-A+A 7,5W, 2-gang - 2M** NEW Input: 100 - 240 Vac ± 10 %; 50/60 Hz. Max. 0,20 A. Output: 5 Vdc ± 5%. 1,5 A (total for both gangs). Power consumption in stand-by: <= 0,3W@230Vac. Energy efficiency: >= 71 %.		
White	**N2285 BL**	2CLA228500N1101	1
Silver	**N2285 PL**	2CLA228500N1301	1
Anthracite	**N2285 AN**	2CLA228500N1801	1
Champagne	**N2285 CV**	2CLA228500N1901	1
	USB charger type-A+C 18W, 2-gang - 2M NEW Input N2285.1: 230V~ 10%; 50/60Hz. Max. 275 mA. Input N2285.7: 127V~ 10%; 50/60Hz. Max. 400 mA. Output voltage USB-A: 5 Vdc (max. 2,4 A). Output voltage USB-C: 5 Vdc (max. 3 A) / 9 Vdc (max. 2 A) / 12 Vdc (max. 1,5A). Output voltage USB-A+C: 5 Vdc (max. 1,5A per gang). Power consumption in stand-by: <= 75 mW. Energy efficiency: 85 %.		
White	**N2285.1 BL**	2CLA228510N1101	1
Silver	**N2285.1 PL**	2CLA228510N1301	1
Anthracite	**N2285.1 AN**	2CLA228510N1801	1
Champagne	**N2285.1 CV**	2CLA228510N1901	1
White	**N2285.7 BL**	2CLA228570N1101	1
Silver	**N2285.7 PL**	2CLA228570N1301	1
Anthracite	**N2285.7 AN**	2CLA228570N1801	1
Champagne	**N2285.7 CV**	2CLA228570N1901	1

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Protection devices

Color	Article-No.	Order-No.	Pack/Qty
	**Fuse holder - 1M** Rated voltage: 250 Vac. Rated current: 16A. Fuse type / dimension: glass tube / 6 x 24 mm.		
White	**N2108 BL**	2CLA210800N1101	20
Silver	**N2108 PL**	2CLA210800N1301	20
Anthracite	**N2108 AN**	2CLA210800N1801	20
Champagne	**N2108 CV**	2CLA210800N1901	20
	**Fuse holder - 2M** Rated voltage: 250 Vac. Rated current: 16A. Fuse type / dimension: glass tube / 6 x 24 mm.		
White	**N2208 BL**	2CLA220800N1101	10
Silver	**N2208 PL**	2CLA220800N1301	10
Anthracite	**N2208 AN**	2CLA220800N1801	10
Champagne	**N2208 CV**	2CLA220800N1901	10

Color	Article-No.	Order-No.	Pack/Qty
	**Circuit breaker 6A & RCD - 2M** Rated voltage: 120 - 230 Vac; 50/60 Hz. Rated current: 6A. Braking capacity: 1.500A. Residual current (sensitivity - IΔn): 10 mA. C type magneto-thermic protection. A type residual current protection. Two-pole (1P + N) with 1 protected pole.		
White	**N2234.1 BL**	2CLA223410N1101	1
Silver	**N2234.1 PL**	2CLA223410N1301	1
Anthracite	**N2234.1 AN**	2CLA223410N1801	1
Champagne	**N2234.1 CV**	2CLA223410N1901	1
	**Circuit breaker 10A & RCD - 2M** Rated voltage: 120 - 230 Vac; 50/60 Hz. Rated current: 10A. Braking capacity: 3.000A. Residual current (sensitivity - IΔn): 10 mA. C type magneto-thermic protection. A type residual current protection. Two-pole (1P + N) with 1 protected pole.		
White	**N2234.2 BL**	2CLA223420N1101	1
Silver	**N2234.2 PL**	2CLA223420N1301	1
Anthracite	**N2234.2 AN**	2CLA223420N1801	1
Champagne	**N2234.2 CV**	2CLA223420N1901	1
	**Circuit breaker 16A & RCD - 2M** Rated voltage: 120 - 230 Vac; 50/60 Hz. Rated current: 16A. Braking capacity: 3.000A. Residual current (sensitivity - IΔn): 10 mA. C type magneto-thermic protection. A type residual current protection. Two-pole (1P + N) with 1 protected pole.		
White	**N2234.3 BL**	2CLA223430N1101	1
Silver	**N2234.3 PL**	2CLA223430N1301	1
Anthracite	**N2234.3 AN**	2CLA223430N1801	1
Champagne	**N2234.3 CV**	2CLA223430N1901	1

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TV socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**TV / R terminal outlet** TV and R double outlet - Final. Without filter. Installation as a terminal outlet connected to a tap-off or splitter (without terminal resistor). Connection: screw terminal and clamp. Output connectors (C1 / C2): IEC male 9,52 mm. diam. / IEC female 9,52 mm. diam. Frequency range (I/O / C1 / C2): 5 - 862 MHz / 5 - 862 MHz / 5 - 862 MHz. Basic loss (FM / DAB / VHF / UHF): 10,0±0,7 dB / 10,0 ±1,5 dB / 4,0±1,5 dB / 3,0±0,5 dB. Isolation (FM / TV): >14 / >14. Return loss (FM / TV): >18 / >10. To be installed with N2250.8 cover plates. Fitting boxes with 60mm distance between screws (codes: 1099, 1999 and 1999.2).		
	8150	2CLA815000A1001	10
	**TV / R final outlet - CATV outlet** TV and R double outlet - CATV outlet - Final. With filter. Installation as a terminal outlet connected to a tap-off or splitter (without terminal resistor). Connection: screw terminal and clamp. Output connectors (C1 / C2): IEC male 9,52 mm. diam. / IEC female 9,52 mm. diam. Frequency range (C1 / C2): 5 - 68 & 118 - 1.000 MHz / 87,5 - 108 MHz. Basic loss (R / FM / TV): 0,3±0,1 dB / 1,1 ±0,3 dB / 0,9±0,3 dB. Isolation (FM / TV): >18 / >16. Selectivity (FM / TV): >10 / >18. Return loss (R / FM / TV): >18 / >16 / >18. Chroma-luminance delay (ns): <10. To be installed with N2250.8 cover plates. Fitting boxes with 60mm distance between screws (codes: 1099, 1999 and 1999.2).		
	8150.3	2CLA815030A1001	10
	**TV / R loop-through outlet** TV and R double outlet - Intermediate. Installation as an intermediate outlet in series connected to each other. From 2nd to 4th floor. Connection: screw terminal and clamp. Output connectors (C1 / C2): IEC male 9,52 mm. diam. / IEC female 9,52 mm. diam. Frequency range (I/O / C1 / C2): 13 - 862 MHz / 13 - 862 MHz / 13 - 862 MHz. Basic loss (FM / DAB / VHF / UHF): 25±1,5 dB / 25 ±1,5 dB / 8,0±0,7 dB / 8,0±0,7 dB. Through loss (FM / VHF / UHF): 2,0±0,3 dB / 2,0±0,5 dB / 2,0±0,5 dB. Directivity (FM / TV): >12 dB / >9 dB. Isolation (FM / TV): >16 / >15. Return loss (FM / TV): >12 / >12. To be installed with N2250.8 cover plates. Fitting boxes with 60mm distance between screws (codes: 1099, 1999 and 1999.2).		
	8150.7	2CLA815070A1001	10

Color	Article-No.	Order-No.	Pack/Qty
	**Cover plate for TV/R outlet - 2M** Cover plates for outlets with 2 connectors codes 8150, 8150.3 and 8150.7. Covers prepared to fix the frame to the wall. TV and R engraved in the front.		
White	**N2250.8 BL**	2CLA225080N1101	20
Silver	**N2250.8 PL**	2CLA225080N1301	20
Anthracite	**N2250.8 AN**	2CLA225080N1801	20
Champagne	**N2250.8 CV**	2CLA225080N1901	20
	**TV-R/SAT terminal outlet** TV-R and SAT double outlet - Final. Installation as a terminal outlet connected to a tap-off or splitter (without terminal resistor). Connection: screw terminal and clamp. Output connectors (C1 / C2): IEC male 9,52 mm. diam. / IEC female 9,52 mm. diam. Frequency range (I/O / C1 / C2): 5 - 2.400 MHz / 5 - 862 MHz / 930 - 2.400 MHz. Basic loss (FM / TV / SAT): 0,2±0,1 dB / 1,0 ±0,5 dB / 1,2±0,6 dB. Isolation (FM / TV / SAT): >45 / >14 / >14. Selectivity (TV-R / SAT): >15 / >15. Return loss (VR / FM / TV / SAT): >25 / >25 / >14 / >10. DC path (Vdc / mA / Tono): 24 max. / 500 max. / 22 KHz - DiSEqC. To be installed with N2250.1 cover plates. Fitting boxes with 60mm distance between screws (codes: 1099, 1999 and 1999.2).		
	8151.3	2CLA815130A1001	10
	**TV-R/SAT final outlet** TV-R and SAT double outlet - Final. Installation as a terminal outlet connected to a series with loop-through outlets. Connection: screw terminal and clamp. Output connectors (C1 / C2): IEC male 9,52 mm. diam. / IEC female 9,52 mm. diam. Frequency range (I/O / C1 / C2): 5 - 2.400 MHz / 5 - 2.400 MHz / 5 - 2.400 MHz. Basic loss (FM / TV / SAT): 3,7±0,3 dB / 4,0±0,5 dB / 5,0±1,2 dB. Isolation (FM / TV / SAT): >20 / >20 / >14. Return loss (VR / FM / TV / SAT): >16 / >16 / >16 / >9. DC path (Vdc / mA / Tono): 24 max. / 500 max. / 22 KHz - DiSEqC. To be installed with N2250.1 cover plates. Fitting boxes with 60mm distance between screws (codes: 1099, 1999 and 1999.2).		
	8151.7	2CLA815170A1001	10

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TV socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**TV-R/SAT loop-through outlet** TV-R and SAT double outlet - Intermediate. Installation as an intermediate outlet in series connected to each other. Output connectors (C1 / C2): IEC male 9,52 mm. diam. / IEC female 9,52 mm. diam. Frequency range (I/O / C1 / C2): 5 - 2.400 MHz / 5 - 2.400 MHz / 5 - 2.400 MHz. Basic loss (FM / TV / SAT): 10,0±1,0 dB / 10,0±1,0 dB / 12,0±2,0 dB. Through loss (FM / TV / SAT): 2,5±0,5 / 2,5±0,7 / 3,0±1,0. Directivity (FM / TV / SAT): >20 / >12 / >5. Isolation (FM / TV / SAT): >45 / >30 / >28. Return loss (VR / FM / TV / SAT): >13 / >13 / >12 / >12. DC path (Vdc / mA / Tono): 24 max. / 500 max. / 22 KHz - DiSEqC. To be installed with N2250.1 cover plates. Fitting boxes with 60mm distance between screws (codes: 1099, 1999 and 1999.2).		
	8151.8	2CLA815180A1001	10
	**Cover plate for TV-R/SAT - 2M** Cover plates for outlets with 2 connectors codes 8150.3, 8150.7 and 8150.8. Covers prepared to fix the frame to the wall. TV-R and SAT engraved in the front.		
White	**N2250.1 BL**	2CLA225010N1101	20
Silver	**N2250.1 PL**	2CLA225010N1301	20
Anthracite	**N2250.1 AN**	2CLA225010N1801	20
Champagne	**N2250.1 CV**	2CLA225010N1901	20
	**TV/R/SAT final outlet** TV, R and SAT triple outlet - Final. Installation as a terminal outlet. Connection: screw terminal and clamp. Output connectors (C1 / C2 / C3): IEC male 9,52 mm. diam. / IEC female 9,52 mm. diam. / F female Frequency range (I / C1 / C2 / C3): 5 - 2.500 MHz / 5 - 68 & 125 - 862 MHz / 87,5 - 108 MHz / 950 - 2.5000 MHz. Basic loss (FM / TV / SAT): 2,0 dB / 2,7 dB / 2,3 dB. Isolation (FM / TV / SAT): >24,3 / >15 / >15. Selectivity (FM / TV / SAT): >15 / >15 / >15. Return loss (VR / FM / TV / SAT): >7,6 / >10 / >7,6 / >8,2. DC path (Vdc / mA / Tono): 34 max. / 500 max. / 22 KHz - DiSEqC. To be installed with N2252 cover plates. Fitting boxes with 60mm distance between screws (Codes: 1099, 1999 and 1999.2).		
	8152.7	2CLA815270A1002	10
	**Cover plate for TV/R/SAT - 2M** Cover plates for outlets with 3 connectors code 8152.7. Covers prepared to fix the frame to the wall. TV, R and SAT engraved in the front.		
White	**N2252 BL**	2CLA225200N1101	20
Silver	**N2252 PL**	2CLA225200N1301	20
Anthracite	**N2252 AN**	2CLA225200N1801	20
Champagne	**N2252 CV**	2CLA225200N1901	20

Color	Article-No.	Order-No.	Pack/Qty
	**TV-R/SAT terminal outlet - 2M** TV-R and SAT double outlet - Final. Installation as a terminal outlet connected to a tap-off or splitter (without terminal resistor). Connection: screw terminal and clamp. Output connectors (C1 / C2): IEC male 9,52mm diam. / IEC female 9,52mm diam. Frequency range (I/O / C1 / C2): 5 - 2.400 MHz / 5 - 862 MHz / 930 - 2.400 MHz. Basic loss (FM / TV / SAT): 0,2±0,1 dB / 1,0 ±0,5 dB / 1,2±0,6 dB. Isolation (FM / TV / SAT): >45 / >14 / >14. Selectivity (TV-R / SAT): >15 / >15. Return loss (VR / FM / TV / SAT): >25 / >25 / >14 / >10. DC path (Vdc / mA / Tono): 24 max. / 500 max. / 22 KHz - DiSEqC.		
White	**N2251.3 BL**	2CLA225130N1101	10
Silver	**N2251.3 PL**	2CLA225130N1301	10
Anthracite	**N2251.3 AN**	2CLA225130N1801	10
Champagne	**N2251.3 CV**	2CLA225130N1901	10
	**TV-R/SAT final outlet - 2M** TV-R and SAT double outlet - Final. Installation as a terminal outlet connected to a series with loop-through outlets. Connection: screw terminal and clamp. Output connectors (C1 / C2): IEC male 9,52mm diam. / IEC female 9,52 mm. diam. Frequency range (I/O / C1 / C2): 5 - 2.400 MHz / 5 - 2.400 MHz / 5 - 2.400 MHz. Basic loss (FM / TV / SAT): 3,7±0,3 dB / 4,0±0,5 dB / 5,0±1,2 dB. Isolation (FM / TV / SAT): >20 / >20 / >14. Return loss (VR / FM / TV / SAT): >16 / >16 / >16 / >9. DC path (Vdc / mA / Tono): 24 max. / 500 max. / 22 KHz - DiSEqC.		
White	**N2251.7 BL**	2CLA225170N1101	10
Silver	**N2251.7 PL**	2CLA225170N1301	10
Anthracite	**N2251.7 AN**	2CLA225170N1801	10
Champagne	**N2251.7 CV**	2CLA225170N1901	10
	**TV-R/SAT loop-through outlet - 2M** TV-R and SAT double outlet - Intermediate. Installation as an intermediate outlet in series connected to each other. Output connectors (C1 / C2): IEC male 9,52 mm. diam. / IEC female 9,52 mm. diam. Frequency range (I/O / C1 / C2): 5 - 2.400 MHz / 5 - 2.400 MHz / 5 - 2.400 MHz. Basic loss (FM / TV / SAT): 10,0±1,0 dB / 10,0±1,0 dB / 12,0±2,0 dB. Through loss (FM / TV / SAT): 2,5±0,5 / 2,5±0,7 / 3,0±1,0. Directivity (FM / TV / SAT): >20 / >12 / >5. Isolation (FM / TV / SAT): >45 / >30 / >28. Return loss (VR / FM / TV / SAT): >13 / >13 / >12 / >12. DC path (Vdc / mA / Tono): 24 max. / 500 max. / 22 KHz - DiSEqC.		
White	**N2251.8 BL**	2CLA225180N1101	10
Silver	**N2251.8 PL**	2CLA225180N1301	10
Anthracite	**N2251.8 AN**	2CLA225180N1801	10
Champagne	**N2251.8 CV**	2CLA225180N1901	10

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TV socket outlets

Color	Article-No.	Order-No.	Pack/Qty
	TV terminal outlet F-type - 1M Single TV outlet. F type - female. For 75 Ω impedance coaxial cable. Frequency range: 0 - 2.000 Mhz. Working voltage: 250 VRMS max. Dielectric withstanding voltage: 500 VRMS min.		
White	**N2150 BL**	2CLA215000N1101	10
Silver	**N2150 PL**	2CLA215000N1301	10
Anthracite	**N2150 AN**	2CLA215000N1801	10
Champagne	**N2150 CV**	2CLA215000N1901	10
	Cover for TV F-type outlet Cover suitable for F-type TV connectors.		
White	**N2150.1 BL**	2CLA215010N1101	20
Silver	**N2150.1 PL**	2CLA215010N1301	20
Anthracite	**N2150.1 AN**	2CLA215010N1801	20
Champagne	**N2150.1 CV**	2CLA215010N1901	20
	TV terminal outlet M-type - 1M Single TV outlet - Dead-end. M type - 9,52 mm. male. For 75 Ω impedance coaxial cable. Frequency range: 5 - 862 Mhz. Output loss: 0,5 dB.		
White	**N2150.7 BL**	2CLA215070N1101	10
Silver	**N2150.7 PL**	2CLA215070N1301	10
Anthracite	**N2150.7 AN**	2CLA215070N1801	10
Champagne	**N2150.7 CV**	2CLA215070N1901	10
	TV terminal outlet M-type - 2M Single TV outlet - Dead-end. M type - 9,52 mm. male. For 75 Ω impedance coaxial cable. Frequency range: 5 - 862 Mhz. Output loss: 0,5 dB.		
White	**N2250.7 BL**	2CLA225070N1101	10
Silver	**N2250.7 PL**	2CLA225070N1301	10
Anthracite	**N2250.7 AN**	2CLA225070N1801	10
Champagne	**N2250.7 CV**	2CLA225070N1901	10

Color	Article-No.	Order-No.	Pack/Qty
	TV intermediate outlet M-type - 1M Single TV outlet - Intermediate. M type - 9,52 mm. male. For 75 Ω impedance coaxial cable. Frequency range: 5 - 862 Mhz. Output loss: 11 dB. Through loss: 1,7 dB.		
White	**N2150.8 BL**	2CLA215080N1101	10
Silver	**N2150.8 PL**	2CLA215080N1301	10
Anthracite	**N2150.8 AN**	2CLA215080N1801	10
Champagne	**N2150.8 CV**	2CLA215080N1901	10
	TV/SAT terminal outlet - 1M Single TV outlet - dead-end. - TV: M type - 9,52 mm. male. - SAT: F type - female. For 75 Ω impedance coaxial cable. Frequency range (TV / SAT): 5 - 862 Mhz / 950 - 2.400 MHz. Output loss (TV / SAT): 1 dB / 1 dB. DC path (Vdc / mA / Tono): 34 max. / 500 max. / 22kHz - DiSEqC.		
White	**N2151.7 BL**	2CLA215170N1101	10
Silver	**N2151.7 PL**	2CLA215170N1301	10
Anthracite	**N2151.7 AN**	2CLA215170N1801	10
Champagne	**N2151.7 CV**	2CLA215170N1901	10
	TV/SAT intermediate outlet - 1M Single TV outlet - intermediate. - TV: M type - 9,52 mm. male. - SAT: F type - female. For 75 Ω impedance coaxial cable. Frequency range (TV / SAT): 5 - 862 Mhz / 950 - 2.400 MHz. Output loss (TV / SAT): 5 dB / 5 dB. Through loss (TV / SAT): 4 dB / 4 dB. DC path (Vdc / mA / Tono): 34 max. / 500 max. / 22kHz - DiSEqC.		
White	**N2151.8 BL**	2CLA215180N1101	10
Silver	**N2151.8 PL**	2CLA215180N1301	10
Anthracite	**N2151.8 PL**	2CLA215180N1301	10
Champagne	**N2151.8 CV**	2CLA215180N1901	10

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VDI outlets

Color	Article-No.	Order-No.	Pack/Qty
	**2x RCA connection unit - 1M** Front: 2x RCA connectors (Red / White). Rear: screw terminals (4 wires).		
White	**N2155.2 BL**	2CLA215520N1101	1
Silver	**N2155.2 PL**	2CLA215520N1301	1
Anthracite	**N2155.2 AN**	2CLA215520N1801	1
Champagne	**N2155.2 CV**	2CLA215520N1901	1
	**3x RCA connection unit - 1M** Front: 3x RCA connectors (Red / White / Yellow). Rear: screw terminals (6 wires).		
White	**N2155.3 BL**	2CLA215530N1101	1
Silver	**N2155.3 PL**	2CLA215530N1301	1
Anthracite	**N2155.3 AN**	2CLA215530N1801	1
Champagne	**N2155.3 CV**	2CLA215530N1901	1
	**HDMI connection unit - 1M** Front: 1x HDMI connector (Type A connector). Rear: screwless terminals (20 wires).		
White	**N2155.6 BL**	2CLA215560N1101	1
Silver	**N2155.6 PL**	2CLA215560N1301	1
Anthracite	**N2155.6 AN**	2CLA215560N1801	1
Champagne	**N2155.6 CV**	2CLA215560N1901	1
	**HDMI female-female connection unit - 1M** Front: 1x HDMI connector (Type A connector). Rear: 1x HDMI connector (Type A connector) fitted at 90° angle.		
White	**N2155.7 BL**	2CLA215570N1101	1
Silver	**N2155.7 PL**	2CLA215570N1301	1
Anthracite	**N2155.7 AN**	2CLA215570N1801	1
Champagne	**N2155.7 CV**	2CLA215570N1901	1
	**HDMI female-female connection unit with cable - 1M** Front: 1x HDMI connector (Type A connector). Rear: 1x HDMI connector (Type A connector) with 20 cm cable extension.		
White	**N2155.71 BL**	2CLA215571N1101	1
Silver	**N2155.71 PL**	2CLA215571N1301	1
Anthracite	**N2155.71 AN**	2CLA215571N1801	1
Champagne	**N2155.71 CV**	2CLA215571N1901	1

Color	Article-No.	Order-No.	Pack/Qty
	**Mini-Jack connection unit - 1M** Front: 1x Mini-Jack connector (3,5 mm. stereo audio jack). Rear: screw terminals (3/4 wires).		
White	**N2155.4 BL**	2CLA215540N1101	1
Silver	**N2155.4 PL**	2CLA215540N1301	1
Anthracite	**N2155.4 AN**	2CLA215540N1801	1
Champagne	**N2155.4 CV**	2CLA215540N1901	1
	**VGA connection unit - 1M** Front: 1x VGA connector (DE-15 connector). Rear: screw terminals (15 wires).		
White	**N2155.5 BL**	2CLA215550N1101	1
Silver	**N2155.5 PL**	2CLA215550N1301	1
Anthracite	**N2155.5 AN**	2CLA215550N1801	1
Champagne	**N2155.5 CV**	2CLA215550N1901	1
	**USB connection unit - 1M** Front: 1x USB 2.0 connector (Type A connector). Rear: screwless terminals (5 wires).		
White	**N2155.8 BL**	2CLA215580N1101	1
Silver	**N2155.8 PL**	2CLA215580N1301	1
Anthracite	**N2155.8 AN**	2CLA215580N1801	1
Champagne	**N2155.8 CV**	2CLA215580N1901	1
	**USB female-female connection unit - 1M** Front: 1x USB 2.0 connector (Type A connector). Rear: 1x USB 2.0 connector (Type A connector) fitted at 90° angle.		
White	**N2155.9 BL**	2CLA215590N1101	1
Silver	**N2155.9 PL**	2CLA215590N1301	1
Anthracite	**N2155.9 AN**	2CLA215590N1801	1
Champagne	**N2155.9 CV**	2CLA215590N1901	1
	**USB female-female connection unit with cable - 1M** Front: 1x USB 2.0 connector (Type A connector). Rear: 1x USB 2.0 connector (Type A connector) with 20 cm cable extension.		
White	**N2155.91 BL**	2CLA215591N1101	1
Silver	**N2155.91 PL**	2CLA215591N1301	1
Anthracite	**N2155.91 AN**	2CLA215591N1801	1
Champagne	**N2155.91 CV**	2CLA215591N1901	1

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VDI outlets

Color	Article-No.	Order-No.	Pack/Qty
	**Speaker connection unit - 2M** Front: 2x spring speaker terminals (Red/Black). Rear: 2x screw terminals.		
White	**N2257.1 BL**	2CLA225710N1101	1
Silver	**N2257.1 PL**	2CLA225710N1301	1
Anthracite	**N2257.1 AN**	2CLA225710N1801	1
Champagne	**N2257.1 CV**	2CLA225710N1901	1

XLR connection unit

	**Speaker connection unit - 2M** Front: 2x spring speaker terminals (Red/Black). Rear: 2x screw terminals.		
White	**N2255.1 BL**	2CLA225510N1101	1
Silver	**N2255.1 PL**	2CLA225510N1301	1
Anthracite	**N2255.1 AN**	2CLA225510N1801	1
Champagne	**N2255.1 CV**	2CLA225510N1901	1

Telephone outlets

Color	Article-No.	Order-No.	Pack/Qty
	**Telephone outlet RJ12 - 1M** RJ12 type connector. 6 contacts. Suitable for 2, 4 or 6 contscts jack. Screw terminals.		
White	**N2117.6 BL**	2CLA211760N1101	20
Silver	**N2117.6 PL**	2CLA211760N1301	20
Anthracite	**N2117.6 AN**	2CLA211760N1801	20
Champagne	**N2117.6 CV**	2CLA211760N1901	20
	**Telephone outlet RJ12 - 2M** RJ12 type connector. 6 contacts. Suitable for 2, 4 or 6 contscts jack. Screw terminals.		
White	**N2217.6 BL**	2CLA221760N1101	10
Silver	**N2217.6 PL**	2CLA221760N1301	10
Anthracite	**N2217.6 AN**	2CLA221760N1801	10
Champagne	**N2217.6 CV**	2CLA221760N1901	10

Optical fiber adaptor

	**Optical fiber SC simplex adapter - 1M** Insertion Loss (IL) <=0.3dB for SM and MM. Durability(500 Mating): 0.2dB max. increase. Withdrawal force (g/f): 100300. Operating temperature: -40° C to +85° C. Meet JIS C5974 and Bellcore GR-326 standard. Compliant with IEC874-14 & IEC874-19. All parts compliant with ROHS.		
White	**N2118.3 BL**	2CLA211830N1101	10
Silver	**N2118.3 PL**	2CLA211830N1301	10
Anthracite	**N2118.3 AN**	2CLA211830N1801	10
Champagne	**N2118.3 CV**	2CLA211830N1901	10

Zenit

Data outlets adapters

Color	Article-No.	Order-No.	Pack/Qty
	**Cover plate for data outlet 1-gang - 2M** Cover plate for one data connector housing (refs.: 2016, 2016.1, 2016.2 and 2016.3). With labeling area for stickers. Without shutter.		
White	**N2216.1 BL**	2CLA221610N1101	10
Silver	**N2216.1 PL**	2CLA221610N1301	10
Anthracite	**N2216.1 AN**	2CLA221610N1801	10
Champagne	**N2216.1 CV**	2CLA221610N1901	10
	**Cover plate for data outlet 2-gang - 2M** Cover plate for two data connector housing (refs.: 2016, 2016.1, 2016.2 and 2016.3). With labeling area for stickers. Without shutter.		
White	**N2216.2 BL**	2CLA221620N1101	10
Silver	**N2216.2 PL**	2CLA221620N1301	10
Anthracite	**N2216.2 AN**	2CLA221620N1801	10
Champagne	**N2216.2 CV**	2CLA221620N1901	10
	**Cover plate for data outlet 1-gang - 2M** Cover plate for one data connector housing (refs.: 2016, 2016.1, 2016.2 and 2016.3). With labeling area for stickers. With shutter.		
White	**N2216.3 BL**	2CLA221630N1101	10
Silver	**N2216.3 PL**	2CLA221630N1301	10
Anthracite	**N2216.3 AN**	2CLA221630N1801	10
Champagne	**N2216.3 CV**	2CLA221630N1901	10
	**Cover plate for data outlet 2-gang - 2M** Cover plate for two data connector housing (refs.: 2016, 2016.1, 2016.2 and 2016.3). With labeling area for stickers. With shutters.		
White	**N2216.4 BL**	2CLA221640N1101	10
Silver	**N2216.4 PL**	2CLA221640N1301	10
Anthracite	**N2216.4 AN**	2CLA221640N1801	10
Champagne	**N2216.4 CV**	2CLA221640N1901	10
	**Cover plate for data outlet 1-gang at 45º - 2M** Cover plate at 45º for one data connector housing (refs.: 2016, 2016.1, 2016.2 and 2016.3). With labeling area for stickers. Without shutter.		
White	**N2216.5 BL**	2CLA221650N1101	5
Silver	**N2216.5 PL**	2CLA221650N1301	5
Anthracite	**N2216.5 AN**	2CLA221650N1801	5
Champagne	**N2216.5 CV**	2CLA221650N1901	5

Color	Article-No.	Order-No.	Pack/Qty
	**Cover plate for data outlet 2-gang at 45º - 2M** Cover plate at 45º for two data connector housing (refs.: 2016, 2016.1, 2016.2 and 2016.3). With labeling area for stickers. Without shutters.		
White	**N2216.6 BL**	2CLA221660N1101	5
Silver	**N2216.6 PL**	2CLA221660N1301	5
Anthracite	**N2216.6 AN**	2CLA221660N1801	5
Champagne	**N2216.6 CV**	2CLA221660N1901	5
	**Cover plate for data outlet 1-gang at 45º - 2M** Cover plate at 45º for one data connector housing (refs.: 2016, 2016.1, 2016.2 and 2016.3). With labeling area for stickers. With shutter.		
White	**N2216.7 BL**	2CLA221670N1101	5
Silver	**N2216.7 PL**	2CLA221670N1301	5
Anthracite	**N2216.7 AN**	2CLA221670N1801	5
Champagne	**N2216.7 CV**	2CLA221670N1901	5
	**Cover plate for data outlet 2-gang at 45º - 2M** Cover plate at 45º for two data connector housing (refs.: 2016, 2016.1, 2016.2 and 2016.3). With labeling area for stickers. With shutters.		
White	**N2216.8 BL**	2CLA221680N1101	5
Silver	**N2216.8 PL**	2CLA221680N1301	5
Anthracite	**N2216.8 AN**	2CLA221680N1801	5
Champagne	**N2216.8 CV**	2CLA221680N1901	5
	**Housing for data outlets 1-gang** Cover plate for two data connector housing Housing for RJ45 data connectors with multiple type clipping systems: - 2016: Keystone, 3M and AMP type. - 2016.1: Systimax type. - 2016.2: Panduit type. - 2016.3: R&M type. To be installed with 8516.8, N2216.1, N2218.2, N2216.3, N2216.4, N2216.5, N2216.6, N2216.7 and N2218.8 cover plates.		
	2016	2CLA201600A1001	10
	2016.1	2CLA201610A1001	10
	2016.2	2CLA201620A1001	10
	2016.3	2CLA201630A1001	10

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Data outlets

Color	Article-No.	Order-No.	Pack/Qty
	Data outlet RJ45 Cat.5e UTP NEW RJ45 type connector. Cat.5e UTP. In compliance with ANSI/TIA/EIA 568B.2 , ISO/IEC11801 & EN50173. Universal TIA/EIA 568A and 568B labeling. Housing: ABS UL-94-0. Durability: 750 cycles min. (ISO/IEC 11801, IEC 60603-7-4). IDC: PC UL94V-0, Accept 22-26AWG solid wire. Contact: RJ45 8P8C, 3□50 micro-inch gold plating over nickel plated on contact area. Tool-less wiring. Cover plate code: N2216.1, N2216.2, N2216.3, N2216.4, N2216.5, N2216.6, N2216.7 and N2216.8.		
	2016.50	2CLA201650N1001	10
	Data outlet RJ45 Cat.5e STP NEW RJ45 type connector. Cat.5e STP. In compliance with ISO/IEC11801. Transmission: 1000 V RMA - 60 Hz / 1 min. Cover plate code: N2216.1, N2216.2, N2216.3, N2216.4, N2216.5, N2216.6, N2216.7 and N2216.8.		
	2016.52	2CLA201652N1001	10
	Data outlet RJ45 Cat.6 UTP NEW RJ45 type connector. Cat.6 UTP. In compliance with ANSI/TIA/EIA 568B.2 , ISO/IEC11801 & EN50173 Universal TIA/EIA 568A and 568B labeling Housing: ABS UL-94-0 Durability: 750 cycles min. (ISO/IEC 11801, IEC 60603-7-4) IDC: PC UL94V-0, Accept 22-26AWG solid wire Contact: RJ45 8P8C, 3□50 micro-inch gold plating over nickel plated on contact area. Tool-less wiring. Cover plate code: N2216.1, N2216.2, N2216.3, N2216.4, N2216.5, N2216.6, N2216.7 and N2216.8.		
	2016.60	2CLA201660N1001	10
	Data outlet RJ45 Cat.6A STP NEW RJ45 type connector. Cat.6 STP. In compliance with ISO/IEC11801. Transmission: 1000 V RMA - 60 Hz / 1 min. Cover plate code: N2216.1, N2216.2, N2216.3, N2216.4, N2216.5, N2216.6, N2216.7 and N2216.8.		
	2016.62	2CLA201662N1001	10

Zenit

Light controls - Rotatory dimmers

Color	Article-No.	Order-No.	Pack/Qty
	**LED/Universal rotatory dimmer 220V - 1M** Rated voltage: 230 Vac ± 10%. Frequency: 50-60 Hz. Power (min./max load): - LEDi (trailing-edge lamps), LV LEDi with transformer type C, LV halogen with transformer (type C or LC) and incandescent and halogen lamps: 4 / 250 W/VA. - LEDi (leading-edge lamps) and LV LEDi with transformer type LC: 4 / 60 W/VA.* *Max. 10 lamps. Load selection 2 or 3 wire connection. OFF position Electronic back-up fuse & overload protection. Ambient temperature: 0° C to +35° C.		
White	**N2160.3 BL**	2CLA216030N1101	1
Silver	**N2160.3 PL**	2CLA216030N1301	1
Anthracite	**N2160.3 AN**	2CLA216030N1801	1
Champagne	**N2160.3 CV**	2CLA216030N1901	1
	**LED/Universal rotatory dimmer 110V - 1M** Rated voltage: 127 Vac ± 10%. Frequency: 60 Hz. Power (min./max load): - LEDi (trailing-edge lamps), LV LEDi with transformer type C, LV halogen with transformer (type C or LC) and incandescent and halogen lamps: 4 / 125 W/VA. - LEDi (leading-edge lamps) and LV LEDi with transformer type LC: 4 / 30 W/VA.* *Max. 10 lamps. Load selection 2 or 3 wire connection. OFF position Electronic back-up fuse & overload protection. Ambient temperature: 0° C to +35° C.		
White	**N2160.8 BL**	2CLA216080N1101	1
Silver	**N2160.8 PL**	2CLA216080N1301	1
Anthracite	**N2160.8 AN**	2CLA216080N1801	1
Champagne	**N2160.8 CV**	2CLA216080N1901	1

Color	Article-No.	Order-No.	Pack/Qty
	**LED rotatory/push dimmer - 2M** Rated voltage: 230 Vac ± 10%. Frequency: 50 Hz (250 W/VA) / 60 Hz (200 W/VA). Power (min./max load): - LEDi, dimmable CFL and LV LEDi with transformer (L or LC): 2 / 100 W/VA*. - Incandescent and halogen lamps: 10 / 250 W/VA. - LV halogen w/transformer (L or LC): 10 / 250 W/VA*. *: max. 10 lamps. 2 wire connection. Optional: auxiliary on/off with 2-way switch N2X02. Indicator LED lamp included. Electronic back-up fuse & overload protection. Ambient temperature: 0° C to +35° C.		
White	**N2260.3 BL**	2CLA226030N1101	1
Silver	**N2260.3 PL**	2CLA226030N1301	1
Anthracite	**N2260.3 AN**	2CLA226030N1801	1
Champagne	**N2260.3 CV**	2CLA226030N1901	1
	**1-10V rotary dimmer - 2M** Rated voltage: 127 - 230 Vac / 50 - 60 Hz Dimmable electronic ballast/driver. 1-10V control input. Max. power (max. 6 ballasts per device): 700 VA @ 230 Vac / 350 VA @ 127 Vac. Indicator LED lamp included.		
White	**N2260.9 BL**	2CLA226090N1101	1
Silver	**N2260.9 PL**	2CLA226090N1301	1
Anthracite	**N2260.9 AN**	2CLA226090N1801	1
Champagne	**N2260.9 CV**	2CLA226090N1901	1

Zenit

Light controls - Time delay switches

Color	Article-No.	Order-No.	Pack/Qty
	**Time delayed switch - 2M** Rated voltage: 230 Vac / 50 Hz. Power: - Incandescent: 40 - 500 W. - Halogen with transformer: 40 - 400 VA. - Motors: 40 - 100 VA. 2 wire connection. Delay setup: 10 sec. to 10 min. Overcurrent protection: with fuse. Indicator LED lamp included. Operating temperature: 0° C to +40° C.		
White	**N2262.1 BL**	2CLA226210N1101	1
Silver	**N2262.1 PL**	2CLA226210N1301	1
Anthracite	**N2262.1 AN**	2CLA226210N1801	1
Champagne	**N2262.1 CV**	2CLA226210N1901	1

Light controls - Electronic switch cookie

	**Electronic switch cookie - 220Vac** Rated voltage: 230 Vac / 50Hz. Rated current: 10A. NO contact. Single pole. Power: - LED lamps: 400 W. - Incandescent / Halogen lamps: 2.000 W. - Low-voltage halogen lamps with transformer (12 V): 1.000 W. - Fluorescent lamps: 600 W (60µF). Zero crossing technology. Standby and operating consumption: 0 mW. Dimensions: 61 (46) x 32 x 19mm (without flaps) To be controlled with N2X04.X push-buttons.		
	8132.2	2CLA813220A1001	1

	**Electronic switch cookie - 127Vac** Rated voltage: 127 Vac / 60Hz. Rated current: 10A. NO contact. Single pole. Power: - LED lamps: 200 W. - Incandescent / Halogen lamps: 1.000 W. - Low-voltage halogen lamps with transformer (12 V): 500 W. - Fluorescent lamps: 300 W (60µF). Zero crossing technology. Standby and operating consumption: 0 mW. Dimensions: 61 (46) x 32 x 19mm (without flaps) To be controlled with N2X04.X push-buttons.		
	8132.1	2CLA813210A1001	1

Light controls - Motion sensors

Color	Article-No.	Order-No.	Pack/Qty
	110 motion sensor - 1M NEW **Rated voltage: 230 Vac ± 10% / 50 - 60 Hz** **Outputs: 1 Normally Open (NO). Potential free. Zero crossing.** **Max. power:** **- Incandescent and halogen: 800W.** **- Halogen with electronic o ferromagnetic transformer: 500VA.** **- Fluorescent lamps and CFL: 200VA.** **- LED: 200 VA.** **Switch-off delay: 5 sec (test) and 30 sec to 15 min (adjustable from the front side).** **Detection range: 7 m radious (at 20° C).** **Light set point level for activation: 5 to 100 lux (adjustable from the front side).** **Detection angle: 110° (at 20° C).** **Temperature range (operating): 0° C to 35° C.** **Note: to be installed in boxes with 50mm depth or more.**		
White	**N2141 BL**	2CLA214100N1101	1
Silver	**N2141 PL**	2CLA214100N1301	1
Anthracite	**N2141 AN**	2CLA214100N1801	1
Champagne	**N2141 CV**	2CLA214100N1901	1

Zenit

Temperature controls - RTC

Color	Article-No.	Order-No.	Pack/Qty
	Rotatory thermostat for underfloor heating Rated voltage: 230 Vac ±10% / 50-60 Hz. Load power: 2.300 W. Load type: floor heating resistor. Control temperature: +5°C to +45°C (Set point). OFF state: at OFF position, the thermostat is off, so that it does not address the temperature measured by the floor temperature probe. The relay output contact is open. Temperature accuracy: 0,5° C. Hysteresis: 0,5° C. Floor temperature sensor: NTC, 10 KΩ at 25° C, -40° C. to 80° C. Double isolated cable, 4 m. length. LED light indication: Red and green. Ambient temperature: -20° C to 45° C.		
White	**N2240.3 BL**	2CLA224030N1101	1
Silver	**N2240.3 PL**	2CLA224030N1301	1
Anthracite	**N2240.3 AN**	2CLA224030N1801	1
Champagne	**N2240.3 CV**	2CLA224030N1901	1
	Digital room thermostat - 2M Rated voltage: 230 Vac / 50-60 Hz. Power consumption: < 1W. Operating temperature range: + 0° C to 50° C. Measurement accuracy: ±2° C (±1° C with calibration). Resolution: 0.1° C. Control output: Potential-free relay contacts Normally Open (NO). Maximum load: 3A cos = 0,5. Output relay operation modes: - Hysteresis: 0.5° C. - Pulse-width modulation: with a ±4°C difference with the set-point temperature, variable from 100% to 0% modulation. To be installed with N2240.5 cover plates.		
	8140.5	2CLA814050A1001	1
	Cover plate for digital thermostat- 2M Cover plate for digital room thermostat code 8140.5.		
White	**N2240.5 BL**	2CLA224050N1101	5
Silver	**N2240.5 PL**	2CLA224050N1301	5
Anthracite	**N2240.5 AN**	2CLA224050N1801	5
Champagne	**N2240.5 CV**	2CLA224050N1901	5

Temperature controls - Chronothermostat

Color	Article-No.	Order-No.	Pack/Qty
	Programmable thermostat - 3M Electronic time-programmable thermostat. Day/week programming. Summer/winter function. LCD display. Output: 1x NO + 1x NC. Potential free. Max.: 8(2)A Power supply: 2x 1.5V AA type battery (LR6).		
White	**N2340 BL**	2CLA234000N1101	1
Silver	**N2340 PL**	2CLA234000N1301	1
Anthracite	**N2340 AN**	2CLA234000N1801	1
Champagne	**N2340 CV**	2CLA234000N1901	1

Temperature controls - Fan regulators

Color	Article-No.	Order-No.	Pack/Qty
	Rotatory 3-speed fan control - 2M Rated voltage: 127 Vac / 60 Hz. Rated current: 1,5 A. Load type: ceiling fan. 4 control positions: - 0: Off. - I: On maximum speed. - II: On medium speed. - III: On low speed. Ambient temperature: 0° C to 40° C.		
White	**N2254.1 BL**	2CLA225410N1101	1
Silver	**N2254.1 PL**	2CLA225410N1301	1
Anthracite	**N2254.1 AN**	2CLA225410N1801	1
Champagne	**N2254.1 CV**	2CLA225410N1901	1

Zenit

DND / MUR systems

Color	Article-No.	Order-No.	Pack/Qty
	**LED DND signaling light - 1M** Rated voltage: 127-230 Vac / 50-60 Hz. Lamp: white LED. Luminous flux: > 2 lumen at 1 meter. Red diffuser. Do Not Disturb (DND) symbol. To be controlled with N2244.5 DND/MUR 2-gang interlocked switch.		
White	**N2180.4 BL**	2CLA218040N1101	5
Silver	**N2180.4 PL**	2CLA218040N1301	5
Anthracite	**N2180.4 AN**	2CLA218040N1801	5
Champagne	**N2180.4 CV**	2CLA218040N1901	5
	**LED MUR signaling light - 1M** Rated voltage: 127-230 Vac / 50-60 Hz. Lamp: white LED. Luminous flux: > 2 lumen at 1 meter. Green diffuser. Make Up Room (MUR) symbol. To be controlled with N2244.5 DND/MUR 2-gang interlocked switch.		
White	**N2180.5 BL**	2CLA218050N1101	5
Silver	**N2180.5 PL**	2CLA218050N1301	5
Anthracite	**N2180.5 AN**	2CLA218050N1801	5
Champagne	**N2180.5 CV**	2CLA218050N1901	5
	**DND/MUR 2-gang interlocked switch - 2M** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Interlocked gangs. Gang 1: Make Up Room (MUR) green symbol. Gang 2: Do Not Disturb (DND) red symbol. To control N2180.4 & N2180.5 DND/MUR signaling lights or N2280.4 DND/MUR push-button.		
White	**N2244.5 BL**	2CLA224450N1101	5
Silver	**N2244.5 PL**	2CLA224450N1301	5
Anthracite	**N2244.5 AN**	2CLA224450N1801	5
Champagne	**N2244.5 CV**	2CLA224450N1901	5
Total White	**N2244.5 BB**	2CLA224450N1201	5
Total Anthracite	**N2244.5 AA**	2CLA224450N1601	5

Color	Article-No.	Order-No.	Pack/Qty
	**Bell push-button with DND/MUR LED indicator - 2M** Rated voltage: 110 - 250 Vac Rated current: 10A Red Do Not Disturb and green Make Up Room LED signaling included. Push-button with bell symbol. To be connected to N2244.4 or N2244.5 DND/MUR room module and N2224 or N2224.1 electronic bell or N2119 or N2219 buzzer.		
White	**N2280.4 BL**	2CLA228040N1101	5
Silver	**N2280.4 PL**	2CLA228040N1301	5
Anthracite	**N2280.4 AN**	2CLA228040N1801	5
Champagne	**N2280.4 CV**	2CLA228040N1901	5
Total White	**N2280.4 BB**	2CLA228040N1201	5
Total Anthracite	**N2280.4 AA**	2CLA228040N1601	5
	**DND/MUR 2-gang switch - 2M** Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Non interlocked gangs. Gang 1: Make Up Room (MUR) green symbol and indicator LED lamp. Gang 2: Do Not Disturb (DND) red symbol and indicator LED lamp. To be connected to N2280.4 corridor module.		
White	**N2244.4 BL**	2CLA224440N1101	5
Silver	**N2244.4 PL**	2CLA224440N1301	5
Anthracite	**N2244.4 AN**	2CLA224440N1801	5
Champagne	**N2244.4 CV**	2CLA224440N1901	5
Total White	**N2244.4 BB**	2CLA224440N1201	5
Total Anthracite	**N2244.4 AA**	2CLA224440N1601	5

Zenit

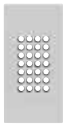
Signaling and lighting systems

Color	Article-No.	Order-No.	Pack/Qty
	LED white signaling light - 1M Rated voltage: 127-230 Vac / 50-60 Hz. Lamp: white LED. Luminous flux: > 2 lumen at 1 meter. White diffuser.		
White	**N2180 BL**	2CLA218000N1101	5
	LED warm white signaling light - 1M Rated voltage: 127-230 Vac / 50-60 Hz. Lamp: white LED. 2.700 Kelvin. Low luminous flux: < 0,5 lumen at 0,3 meter. White diffuser.		
White	**N2180.1 BL**	2CLA218010N1101	5
	LED signaling light - 2M Rated voltage: 127-230 Vac / 50-60 Hz. Lamp: white LED. Luminous flux: > 2 lumen at 1 meter. White diffuser.		
White	**N2280 BL**	2CLA228000N1101	1
	LED DND/MUR signaling light - 2M Rated voltage: 127-230 Vac / 50-60 Hz. Lamp: red/green LED. Luminous flux: > 2 lumen at 1 meter. White diffuser.		
White	**N2280.2 RJ/VD**	2CLA228020N1101	1
	Beacon LED light - 2M Rated voltage: 230 Vac / 50 Hz. Lamp: white LED. Luminous flux: > 2 lumen at 1 meter. White diffuser. Autonomy: 3 hours (1 hour at maximum illumination 2 hours with lower illumination). Battery: Ni-MH (estimated lifetime: 4 years).		
White	**N2281 BL**	2CLA228100N1101	1
	**Labels for signaling / beacon lights - 2M** Labels with symbols for signaling and beacon lights code: N2280, N2280.2 & N2281. Symbols: “WC men”, “WC women”, “No smoking”, “Direction”, “WC handic.”, “WC”, “Salida” and no symbol label.		
	N2281.1	2CLA228110N1001	5

Color	Article-No.	Order-No.	Pack/Qty
	LED red signaling light - 1M Rated voltage: 127-230 Vac / 50-60 Hz. Lamp: white LED. Luminous flux: > 2 lumen at 1 meter. Red diffuser.		
Red	**N2180 RJ**	2CLA218000N1601	5
	LED red signaling light - 1M Rated voltage: 127-230 Vac / 50-60 Hz. Lamp: white LED. Luminous flux: > 2 lumen at 1 meter. Green diffuser.		
Green	**N2180 VD**	2CLA218000N1801	5
	Beacon LED light - 2M NEW Rated voltage: 230 Vac ± 10% / 50 - 60 Hz . Lamp: white LED. White diffuser. Light intensity: 2400 med. Beam angle: 120°. Autonomy: 2 hours. Battery: Ni-MH (not replaceable). Note: to be installed in boxes with 50mm depth or more.		
White	**N2181 BL**	2CLA218100N1101	1
	Withdrawable beacon LED light - 2M NEW Rated voltage: 230 Vac ± 10% / 50 - 60 Hz . Lamp: white LED. White diffuser. Light intensity: 20 lumens. Beam angle: 120°. Autonomy: 2 hours. Battery: Ni-MH (not replaceable). Note: to be installed in boxes with 50mm depth or more.		
White	**N2281.2 BL**	2CLA228120N1101	1

Zenit

Buzzer / Door bell

Color	Article-No.	Order-No.	Pack/Qty
	**Buzzer - 1M** Rated voltage: 127-230 Vac / 50-60 Hz. Rated power: 8 VA. Adjustable tone. Acoustic power at 1 meter with cover plate: 75 dB.		
White	**N2119 BL**	2CLA211900N1101	10
Silver	**N2119 PL**	2CLA211900N1301	10
Anthracite	**N2119 AN**	2CLA211900N1801	10
Champagne	**N2119 CV**	2CLA211900N1901	10
	**Buzzer - 2M** Rated voltage: 127-230 Vac / 50-60 Hz. Rated power: 8 VA. Adjustable tone. Acoustic power at 1 meter with cover plate: 75 dB.		
White	**N2219 BL**	2CLA221900N1101	10
Silver	**N2219 PL**	2CLA221900N1301	10
Anthracite	**N2219 AN**	2CLA221900N1801	10
Champagne	**N2219 CV**	2CLA221900N1901	10
	**Electronic door bell 230 Vac - 2M** Rated voltage: 230 Vac / 50-60 Hz. 4 melodies available. Acoustic power at 1 meter with cover plate: 72 dB.		
White	**N2224 BL**	2CLA222400N1101	1
Silver	**N2224 PL**	2CLA222400N1301	1
Anthracite	**N2224 AN**	2CLA222400N1801	1
Champagne	**N2224 CV**	2CLA222400N1901	1
	**Electronic door bell 127 Vac - 2M** Rated voltage: 127 Vac / 60 Hz. 4 melodies available. Acoustic power at 1 meter with cover plate: 72 dB.		
White	**N2224.1 BL**	2CLA222410N1101	1
Silver	**N2224.1 PL**	2CLA222410N1301	1
Anthracite	**N2224.1 AN**	2CLA222410N1801	1
Champagne	**N2224.1 CV**	2CLA222410N1901	1

Blank covers / Cable outlets

Color	Article-No.	Order-No.	Pack/Qty
	**Blank cover plate - 0,5M** Technical data: Blank cover plate for spare spaces. Size: 0,5 module.		
White	**N2000 BL**	2CLA200000N1101	20
Silver	**N2000 PL**	2CLA200000N1301	20
Anthracite	**N2000 AN**	2CLA200000N1801	20
Champagne	**N2000 CV**	2CLA200000N1901	20
	**Blank cover plate - 1M** Blank cover plate for spare spaces. Size: 1 module.		
White	**N2100 BL**	2CLA210000N1101	10
Silver	**N2100 PL**	2CLA210000N1301	10
Anthracite	**N2100 AN**	2CLA210000N1801	10
Champagne	**N2100 CV**	2CLA210000N1901	10
	**Blank cover plate - 2M** Blank cover plate for spare spaces. Size: 2 modules.		
White	**N2200 BL**	2CLA220000N1101	20
Silver	**N2200 PL**	2CLA220000N1301	20
Anthracite	**N2200 AN**	2CLA220000N1801	20
Champagne	**N2200 CV**	2CLA220000N1901	20
	**Cable outlet - 1M** Maximum cable diameter: 6 mm. Cable tie included.		
White	**N2107 BL**	2CLA210700N1101	10
Silver	**N2107 PL**	2CLA210700N1301	10
Anthracite	**N2107 AN**	2CLA210700N1801	10
Champagne	**N2107 CV**	2CLA210700N1901	10
	**Cable outlet - 2M** Maximum cable diameter: 6 mm. Cable tie included.		
White	**N2207 BL**	2CLA220700N1101	10
Silver	**N2207 PL**	2CLA220700N1301	10
Anthracite	**N2207 AN**	2CLA220700N1801	10
Champagne	**N2207 CV**	2CLA220700N1901	10

Zenit - Sound system

Multiroom Bluetooth system

Product	Article-No.	Order-No.	Pack/Qty
	**Multiroom sound module** Rated voltage: 127-230 Vac ± 15%; 50-60 Hz. Max. consumption: 200 mA. Stand-by consumption: 0,3W. Amplifier power: 6+6 W; <1% distortion (4 Ω). Speaker impedance: 4 Ω (2+2 W audio). FM radio digital tuner with RDS. Alarm clock with buzzer, radio types and snooze function. Bluetooth receiver: Bluetooth® v2.1 2.4GHz IEEE 802.15.1. Multiroom function available (1 master device and up to 14 slave devices). Remote control using code 9368.2 (ZigBee 2.4GHz IEEE 802.15.4). Optional: auxiliary module 9368.3 for I/O (1 mini-jack stereo input & 1 mini-jack stereo output) and USB connection functions.		
	9368.1	2CLA936810A1001	1
	**Remote control for multiroom sound module - 2M** Rated voltage: 127-230 Vac ± 15%; 50-60 Hz. Max. consumption: 15 mA. Stand-by consumption: 0,5W. To control 9368.1 module (1 remote control for each module). Wireless connection between moles 9368.1 and 9368.2 (ZigBee 2.4GHz IEEE 802.15.4). Optional: auxiliary module 9368.3 for I/O (1 mini-jack stereo input & 1 mini-jack stereo output) and USB connection functions. In case of using 9368.3 module, the connection between modules 9368.1 and 9368.2 must be wired (3 wires). Cover plate code: N2268.		
	9368.2	2CLA936820A1001	1
	Cover plate for radio/remote control modules Cover plate for FM-radio module and for remote control module code: 9368, 9368.2 & 9368.7.		
White	**N2268 BL**	2CLA226800N1101	1
Silver	**N2268 PL**	2CLA226800N1301	1
Anthracite	**N2268 AN**	2CLA226800N1801	1
Champagne	**N2268 CV**	2CLA226800N1901	1

FM radio with alarm

Product	Article-No.	Order-No.	Pack/Qty
	**FM-radio and alarm module - 2M** Rated voltage: 230 Vac ± 15%; 50-60 Hz. Max. consumption: 100 mA. Stand-by consumption: 0,2W. Amplifier power: 2+2 W; <1% distortion (16 Ω). Speaker impedance: 16 Ω (2+2 W audio). FM radio digital tuner with RDS. Alarm clock with buzzer, radio types and snooze function. Optional: auxiliary module 9368.3 for I/O (1 mini-jack stereo input & 1 mini-jack stereo output), USB connection and Bluetooth receiver functions. Mounting grid delivered with the cover plate (without fixing claws). Cover plate code: N2268.		
	9368	2CLA936800A1001	1
	**FM-radio and alarm module - 2M** Rated voltage: 127 Vac ± 15%; 50-60 Hz. Max. consumption: 100 mA. Stand-by consumption: 0,2W. Amplifier power: 2+2 W; <1% distortion (16 Ω). Speaker impedance: 16 Ω (2+2 W audio). FM radio digital tuner with RDS. Alarm clock with buzzer, radio types and snooze function. Optional: auxiliary module 9368.3 for I/O (1 mini-jack stereo input & 1 mini-jack stereo output), USB connection and Bluetooth receiver functions. Cover plate code: N2268.		
	9368.7	2CLA936870A1001	1
	Cover plate for radio/remote control modules Cover plate for FM-radio module and for remote control module code: 9368, 9368.2 & 9368.7.		
White	**N2268 BL**	2CLA226800N1101	1
Silver	**N2268 PL**	2CLA226800N1301	1
Anthracite	**N2268 AN**	2CLA226800N1801	1
Champagne	**N2268 CV**	2CLA226800N1901	1

Zenit - Sound system

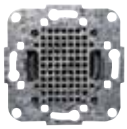
Auxiliary module

Product	Article-No.	Order-No.	Pack/Qty
	**Auxiliary module - 2M** Power supply through 9368, 9368.2 or 9368.7 modules. Max. consumption: 200 mA. Stand-by consumption: 0,4W. Bluetooth receiver: Bluetooth® v2.1 2.4GHz IEEE 802.15.1. USB connector: for MP3 and WAV files. Max. consumption of the connected device: 100 mA @5Vdc. Input: 1x mini-jack stereo 3,5 mm. Output: 1x mini-jack stereo 3,5 mm. Cover plate code: N2268.3.		
	9368.3	2CLA936830A1001	1
	**Cover plate for I/O + USB + Bluetooth module** Cover plate for I/O + USB + Bluetooth module code: 9368.3.		
White	**N2268.3 BL**	2CLA226830N1101	1
Silver	**N2268.3 PL**	2CLA226830N1301	1
Anthracite	**N2268.3 AN**	2CLA226830N1801	1
Champagne	**N2268.3 CV**	2CLA226830N1901	1

Bluetooth audio module

	**Bluetooth sound module - 2M** Rated voltage: 110-230 Vac ± 15%; 50-60 Hz Max. consumption: 7W Stand-by consumption: 0,2W Amplifier power: 2+2 W; <1% distortion (16 Ω) Speaker impedance: 16 Ω (2+2 W audio) Audio inputs: - Bluetooth: stereo Bluetooth® 4 version receiver with A2DP-SINK profile and memory for 8 links. - Front input (AUX): 1x mini-jack stereo 3,5 mm. - Rear input (TV): screw type terminal with 3 contacts (stereo). Cover plate code: N2268.4		
	9368.4	2CLA936840A1001	1
	**Cover plate for Bluetooth sound module** Cover plate for Bluetooth sound module code: 9368.4.		
White	**N2268.4 BL**	2CLA226840N1101	1
Silver	**N2268.4 PL**	2CLA226840N1301	1
Anthracite	**N2268.4 AN**	2CLA226840N1801	1
Champagne	**N2268.4 CV**	2CLA226840N1901	1

Loudspeakers

Color	Article-No.	Order-No.	Pack/Qty
	**2" loudspeaker 2 W** Rated output: 2 W (RMS). Frequency response: 150 - 16.000 Hz. Impedance: 16 Ohm. Mounting depth: 34 mm. Cover plate code: N2229.		
	9329	2CLA932900A1001	1
	**Cover plate for 2" loudspeaker** Cover plate for 2" loudspeaker code: 9329.		
White	**N2229 BL**	2CLA222900N1101	5
Silver	**N2229 PL**	2CLA222900N1301	5
Anthracite	**N2229 AN**	2CLA222900N1801	5
Champagne	**N2229 CV**	2CLA222900N1901	5
	**HiFi built-in ceiling loudspeaker - 5"** 2-way system. For mounting in hollow walls/ceilings. With spring brackets. In corrosion-resistant metal design. With integrated loudspeaker grid. Nominal power: 30 W Frequency response: 50 - 20.000 Hz Impedance: 8 Ohm Drilling measurements: 165 mm. Mounting depth: 72 mm.		
	8226/10 EB	2CKA008200A0202	1
	**Built-in ceiling loudspeaker - 5"** With broadband characteristics. For mounting in hollow walls/ceilings. With spring brackets. In corrosion-resistant metal design. With integrated loudspeaker grid. Nominal power: 30 W Frequency response: 50 - 20.000 Hz Impedance: 8 Ohm Drilling measurements: 165 mm Mounting depth: 72 mm		
	8226 EB	2CKA008200A0201	1
	**Built-in ceiling loudspeaker - 3"** For mounting in hollow walls/ceilings. With spring brackets. In corrosion-resistant metal design. With integrated loudspeaker grid. Nominal power: 10 W Frequency response: 90 - 20.000 Hz Impedance: 8 Ohm Drilling measurements: 90 mm Mounting depth: 38 mm		
	8225 EB	2CKA008200A0200	1

Zenit - ABB-free@home®

Sensors

Product	Article-No.	Order-No.	Pack/Qty
	**free@home Sensor unit 1-gang - 2M** For sending switching, dimming and blind commands to an ABB-free@home® actuator. To be used with ABB-free@home® 2 fold push buttons. Control element: Switch contacts top/ bottom. Display elements: LED as light for orientation or display. of switching state. Protection class of device: IP 20. Mounting depth: 14,1 mm. To be installed with SR-2-N2 cover plates.		
	SU-F-1.0.PB.1	2CKA006220A0222	1
	**free@home Sensor unit 2-gang - 2M** For sending switching, dimming and blind commands. to an ABB-free@home® actuator. To be used with ABB-free@home® 4 fold push buttons. Control element: Switch contacts top/ bottom. Display elements: LED as light for orientation or display of switching state. Protection class of device: IP 20. Mounting depth: 14,1 mm. To be installed with SR-4-N2 cover plates.		
	SU-F-2.0.PB.1	2CKA006220A0223	1

Sensor & switch actuators

Product	Article-No.	Order-No.	Pack/Qty
	**free@home Sensor/Switch actuator 1/1-gang - 2M** For switching 127/230 V~ devices. With 1 integrated switch actuator. Switching function is available pre-configured. Use with ABB-free@home® 2 fold push buttons. Outputs: 1× normally open contact, potential free. Suitable for: resistive. Rated current: 10 A. Rated power: 2300 W. Suitable for: capacitive. Rated current: 10 AX. Protection class of device: IP 20. Mounting depth: 31,5 mm. To be installed with SR-2-N2 cover plates.		
	SSA-F-1.1.PB.1	2CKA006220A0232	1
	**free@home Sensor/Switch actuator 2/1-gang - 2M** For switching 127/230 V~ devices. With 1 integrated switch actuator. Switching function is available pre-configured. Use with ABB-free@home® 4 fold push buttons. Outputs: 1× normally open contact, potential free. Suitable for: resistive. Rated current: 10 A. Rated power: 2300 W. Suitable for: capacitive. Rated current: 10 AX. Protection class of device: IP 20. Mounting depth: 31,5 mm. To be installed with SR-4-N2 cover plates.		
	SSA-F-2.1.PB.1	2CKA006220A0233	1

Sensor & switch actuators

Product	Article-No.	Order-No.	Pack/Qty
	**free@home Sensor/Switch actuator 2/2-gang - 2M** For switching 127/230 V~ devices. With 1 integrated switch actuator. Switching function is available preconfigured. Use with ABB-free@home® 4 fold push buttons. Outputs: 2× normally open contact, potential free. Suitable for: resistive. Rated current: 10 A. Rated power: 2 x 1200 W. Suitable for: capacitive. Rated current: 10 AX. Protection class of device: IP 20. Mounting depth: 31,5 mm. To be installed with SR-4-N2 cover plates.		
	SSA-F-2.2.PB.1	2CKA006220A0234	1

Sensor & dimmer actuators

Product	Article-No.	Order-No.	Pack/Qty
	**free@home Sensor/Dimmer actuator 1/1-gang - 2M** For dimming 127/230 V~ loads. With integrated universal dimming. Actuator for controlling different lamps. The dimming function. Is available pre-configured. Use with ABB-free@home® 2 fold. Push buttons. Outputs: 1× dimming channel. Suitable for: 230 V incandescent lamps and low-voltage. Halogen lamps with conventional transformers or electronic. Transformers. Rated power: 10–180 W/VA. Suitable for: LEDi and energy-saving bulbs. Rated power: 2–80 W/VA. Protection class of device: IP 20. Mounting depth: 31,5 mm. To be installed with SR-2-N2 cover plates.		
	SDA-F-1.1.PB.1	2CKA006220A0235	1
	**free@home Sensor/Dimmer actuator 2/1-gang - 2M** For dimming 230 V~ loads. With integrated universal dimming actuator for controlling different lamps. The dimming function is available pre-configured. Use with ABB-free@home® 4 fold push buttons. Outputs: 1× dimming channel. Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformers. Rated power: 10–180 W/VA. Suitable for: LEDi and energy-saving bulbs. Rated power: 2–80 W/VA. Protection class of device: IP 20. Mounting depth: 31,5 mm. To be installed with SR-4-N2 cover plates.		
	SDA-F-2.1.PB.1	2CKA006220A0236	1

Zenit - ABB-free@home®

Sensor & blind actuators

Product	Article-No.	Order-No.	Pack/Qty
	**free@home Sensor/Blind actuator 1/1-gang - 2M** For controlling blind and awning motors. With integrated blind actuator. Blind function is available pre-configured. To be used with ABB-free@home® 2 fold push buttons. Outputs: 1× Change-over contacts/normally open contact, potential-bound. Rated power: 920 VA. Rated current: 4 A. Suitable for: Operating mode blind. Protection class of device: IP 20. Mounting depth: 31,5 mm. To be installed with SR-2-N2 cover plates.		
	SBA-F-1.1.PB.1	2CKA006220A0237	1
	**free@home Sensor/Blind actuator 2/1-gang - 2M** For controlling blind and awning motors. With integrated blind actuator. Blind function is available pre-configured. To be used with ABB-free@home® 4 fold push buttons. Outputs: 1× Change-over contacts/normally open contact, potential-bound. Rated power: 920 VA. Rated current: 4 A. Suitable for: Operating mode blind. Protection class of device: IP 20. Mounting depth: 31,5 mm. To be installed with SR-4-N2 cover plates.		
	SBA-F-2.1.PB.1	2CKA006220A0238	1

Room temperature controllers

	**free@home Room temperature controller - 2M** Room temperature control function for controlling commercially available valve drives or analogue valve drives (continuous controllers). With display of set-value temperature. Only to be used with ABB-free@home® Zenit cover plates for room thermostat. Display elements: LCD Display showing operation modes. Protection class of device: IP 20. Mounting depth: 17,9 mm. To be installed with CP-RTC-N2 or CP-RTC-FC-N2 cover plates.		
	RTC-F-1.PB	2CKA006220A0276	1

Motion sensor & actuators

Product	Article-No.	Order-No.	Pack/Qty
	**free@home 180° motion sensor - 2M** With select lens for detection with animal access. For automatic switching of ABB-free@home® actuators dependent on movement and brightness. To be used with ABB-free@home® Zenit cover plates for movement detector. Detection range: frontal 6 m, lateral 3 m. Detection angle: 180°. Brightness limit value: 1 – 500 lux. Protection class of device: IP 20. Mounting depth: 14.1 mm. To be installed with CP-MD-N2 cover plates.		
	MD-F-1.0.PB.1	2CKA006220A0229	1
	**free@home 180° motion sensor/actuator - 2M** With select lens for detection with animal access. Including an integrated actuator for switching 230 V~ devices. To be used with ABB-free@home® Zenit cover plates for movement detector. Outputs: 1× normally open contact, potential free. Suitable for: resistive. Rated current: 10 A. Rated power: 2300 W. Suitable for: capacitive. Rated current: 10 AX. Detection range: frontal 6 m, lateral 3 m. Detection angle: 180°. Brightness limit value: 1 – 500 lux. Protection class of device: IP 20. Mounting depth: 31.5 mm. To be installed with CP-MD-N2 cover plates.		
	MSA-F.1.1.PB.1	2CKA006220A0231	1

Zenit - ABB-free@home®

Sensors - Wireless

Product	Article-No.	Order-No.	Pack/Qty
	**free@home Wireless sensor unit 1-gang - 2M** Wireless communication with the system. For sending switching, dimming and blind commands to an ABB-free@home® actuator. To be used with ABB-free@home® 2 fold push buttons. Control element: Switch contacts top/ bottom. Display elements: LED as light for orientation or display. of switching state. Protection class of device: IP 20. Mounting depth: 14,1 mm. To be installed with SR-2-N2 cover plates.		
	SU-F-1.0.PB.1-WL	2CKA006200A0106	1
	**free@home Wireless sensor unit 2-gang - 2M** Wireless communication with the system. For sending switching, dimming and blind commands to an ABB-free@home® actuator. To be used with ABB-free@home® 4 fold push buttons. Control element: Switch contacts top/ bottom. Display elements: LED as light for orientation or display. of switching state. Protection class of device: IP 20. Mounting depth: 14,1 mm. To be installed with SR-4-N2 cover plates.		
	SU-F-2.0.PB.1-WL	2CKA006200A0107	1

Sensors & switch actuators - Wireless

	**free@home Wireless sensor/ Switch actuator 1/1-gang - 2M** Wireless communication with the system. For switching 230 V~ devices. With 1 integrated switch actuator. Switching function is available pre-configured. Use with ABB-free@home® 2 fold push buttons. Outputs: 1× normally open contact, potential free. Suitable for: resistive. Rated current: 10 A. Rated power: 2300 W. Suitable for: capacitive. Rated current: 10 AX. Protection class of device: IP 20. Mounting depth: 31,5 mm. To be installed with SR-2-N2 cover plates.		
	SSA-F-1.1.PB.1-WL	2CKA006200A0108	1
	**free@home Wireless sensor/ Switch actuator 2/1-gang - 2M** Wireless communication with the system. For switching 230 V~ devices. With 1 integrated switch actuator. Switching function is available pre-configured. Use with ABB-free@home® 4 fold push buttons. Outputs: 1× normally open contact, potential free. Suitable for: resistive. Rated current: 10 A. Rated power: 2300 W. Suitable for: capacitive. Rated current: 10 AX. Protection class of device: IP 20. Mounting depth: 31,5 mm. To be installed with SR-4-N2 cover plates.		
	SSA-F-2.1.PB.1-WL	2CKA006200A0109	1

Sensors & switch actuators - Wireless

Product	Article-No.	Order-No.	Pack/Qty
	**free@home Wireless sensor/ Switch actuator 2/2-gang - 2M** Wireless communication with the system. For switching 230 V~ devices. With 1 integrated switch actuator. Switching function is available preconfigured. Use with ABB-free@home® 4 fold push buttons. Outputs: 2× normally open contact, potential free. Suitable for: resistive. Rated current: 10 A. Rated power: 2 x 1200 W. Suitable for: capacitive. Rated current: 10 AX. Protection class of device: IP 20. Mounting depth: 31,5 mm. To be installed with SR-4-N2 cover plates.		
	SSA-F-2.2.PB.1-WL	2CKA006200A0110	1

Sensors & dimmer actuators - Wireless

	**free@home Wireless sensor/ Dimmer actuator 1/1-gang - 2M** Wireless communication with the system. For dimming 230 V~ loads. With integrated universal dimming. Actuator for controlling different lamps. The dimming function. Is available pre-configured. Use with ABB-free@home® 2 fold. Push buttons. Outputs: 1× dimming channel. Suitable for: 230 V incandescent lamps and low-voltage. Halogen lamps with conventional transformers or electronic. Transformers. Rated power: 10–180 W/VA. Suitable for: LEDi and energy-saving bulbs. Rated power: 2–80 W/VA. Protection class of device: IP 20. Mounting depth: 31,5 mm. To be installed with SR-2-N2 cover plates.		
	SDA-F-1.1.PB.1-WL	2CKA006200A0111	1
	**free@home Wireless sensor/ Dimmer actuator 2/1-gang - 2M** Wireless communication with the system. For dimming 230 V~ loads. With integrated universal dimming actuator for controlling different lamps. The dimming function is available pre-configured. Use with ABB-free@home® 4 fold push buttons. Outputs: 1× dimming channel. Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformers. Rated power: 10–180 W/VA. Suitable for: LEDi and energy-saving bulbs. Rated power: 2–80 W/VA. Protection class of device: IP 20. Mounting depth: 31,5 mm. To be installed with SR-4-N2 cover plates.		
	SDA-F-2.1.PB.1-WL	2CKA006200A0112	1

Zenit - ABB-free@home®

Sensors & blind actuators - Wireless

Product	Article-No.	Order-No.	Pack/Qty
	**free@home Wireless sensor/ Blind actuator 1/1-gang - 2M** Wireless communication with the system. For controlling blind and awning motors. With integrated blind actuator. Blind function is available pre-configured. To be used with ABB-free@home® 2 fold push buttons. Outputs: 1× Change-over contacts/normally open contact, potential-bound. Rated power: 920 VA. Rated current: 4 A. Suitable for: Operating mode blind. Protection class of device: IP 20. Mounting depth: 31,5 mm. To be installed with SR-2-N2 cover plates.		
	SBA-F-1.1.PB.1-WL	2CKA006200A0113	1
	**free@home Wireless sensor/ Blind actuator 2/1-gang - 2M** Wireless communication with the system. For controlling blind and awning motors. With integrated blind actuator. Blind function is available pre-configured. To be used with ABB-free@home® 4 fold push buttons. Outputs: 1× Change-over contacts/normally open contact, potential-bound. Rated power: 920 VA. Rated current: 4 A. Suitable for: Operating mode blind. Protection class of device: IP 20. Mounting depth: 31,5 mm. To be installed with SR-4-N2 cover plates.		
	SBA-F-2.1.PB.1-WL	2CKA006200A0114	1

Room temperature controllers - Wireless

Product	Article-No.	Order-No.	Pack/Qty
	**free@home Wireless room temperature controller - 2M** Wireless communication with the system. Room temperature control function for controlling commercially available valve drives or analogue valve drives (continuous controllers). With display of set-value temperature. Display elements: LCD Display showing operation modes. Mounting depth: 17,9 mm. To be installed with CP-RTC-N2 or CP-RTC-FC-N2 cover plates.		
	RTC-F-1.PB-WL	2CKA006200A0115	1
	**free@home Wireless RTC / Heating actuator - 2M** Wireless communication with the system. Heating/cooling operation. Control element with room temperature controller function. With display of set-value temperature. With integrated switch actuator, e.g. for controlling thermoelectric actuating drives in heating/cooling systems or electric floor heating systems. RTC function is available also without prior programming (pre-configured). 3 wire connection (neutral conductor required). Control element: Floating rocker for the selection of set values and operating modes Display elements: LCD showing operation modes Rated voltage: 230 V~ / 50-60 Hz Outputs: 1 Normally open contact, potential-bound Suitable for: ohmic Rated current: 16 A Output voltage: 230 V~ Rated power: 3680 W Mounting depth: 32 mm. To be installed with CP-RTC-N2 cover plates.		
	RTC-F-2.1-1.PB-WL	2CKA006200A0116	1

Motion sensor & actuator - Wireless

Product	Article-No.	Order-No.	Pack/Qty
	**free@home Wireless 180° motion sensor/ actuator - 2M** Wireless communication with the system. With select lens for detection with animal access. Including an integrated actuator for switching 230 V~ devices. To be used with ABB-free@home® Zenit cover plates for movement detector. Outputs: 1× normally open contact, potential free. Suitable for: resistive. Rated current: 10 A. Rated power: 2300 W. Suitable for: capacitive. Rated current: 10 AX. Detection range: frontal 6 m, lateral 3 m. Detection angle: 180°. Brightness limit value: 1 – 500 lux. Protection class of device: IP 20. Mounting depth: 31.5 mm. To be installed with CP-MD-N2 cover plates.		
	MSA-F-1.1.1-WL	2CKA006200A0117	1

Zenit - ABB-free@home®

Covers for sensors & actuators

Color	Article-No.	Order-No.	Pack/Qty
	**Cover plate - free@home 1-gang sensors - 2M** Cover plate for free@home sensors and sensor/actuators with 1-gang sensors code: SU-F-1.0.PB.1, SSA-F-1.1.PB.1, SDA-F-1.1.PB.1 and SBA-F-1.1.PB.1. Included: 2 buttons without symbol.		
White	**SR-2-N2 BL**	2CLA222620N1102	1
Silver	**SR-2-N2 PL**	2CLA222620N1302	1
Anthracite	**SR-2-N2 AN**	2CLA222620N1802	1
Champagne	**SR-2-N2 CV**	2CLA222620N1902	1
	**Cover plate - free@home 2-gang sensors - 2M** Cover plate for free@home sensors and sensor/actuators with 2-gang sensors code: SU-F-2.0.PB.1, SSA-F-2.1.PB.1, SSA-F-2.2.PB.1, SDA-F-2.1.PB.1 and SBA-F-2.1.PB.1. Included: 4 buttons without symbol.		
White	**SR-4-N2 BL**	2CLA222640N1102	1
Silver	**SR-4-N2 PL**	2CLA222640N1302	1
Anthracite	**SR-4-N2 AN**	2CLA222640N1802	1
Champagne	**SR-4-N2 CV**	2CLA222640N1902	1
	**Cover plate - free@home RTC - 2M** Cover plate with RTC symbols for free@home room temperature controler code RTC-F-1.PB.		
White	**CP-RTC-N2 BL**	2CLA224060N1102	1
Silver	**CP-RTC-N2 PL**	2CLA224060N1302	1
Anthracite	**CP-RTC-N2 AN**	2CLA224060N1802	1
Champagne	**CP-RTC-N2 CV**	2CLA224060N1902	1
	**Cover plate - free@home fan coil control - 2M** Cover plate with fan coil control symbols for free@home room temperature controler code RTC-F-1.PB.		
White	**CP-RTC-FC-N2 BL**	2CLA225420N1102	1
Silver	**CP-RTC-FC-N2 PL**	2CLA225420N1302	1
Anthracite	**CP-RTC-FC-N2 AN**	2CLA225420N1802	1
Champagne	**CP-RTC-FC-N2 CV**	2CLA225420N1902	1
	Cover plate - free@home motion sensor - 2M Cover plate for free@home motion sensors and sensor/actuators code: MD-F-1.0.PB.1 and MSA-F.1.1.PB.1.		
White	**CP-MD-N2 BL**	2CLA224160N1102	1
Silver	**CP-MD-N2 PL**	2CLA224160N1302	1
Anthracite	**CP-MD-N2 AN**	2CLA224160N1802	1
Champagne	**CP-MD-N2 CV**	2CLA224160N1902	1

Buttons with symbols

Color	Article-No.	Order-No.	Pack/Qty
	**free@home button with symbol** Button with free@home symbol for sensor and sensor/actuator's cover plates code: SR-2-N2 and SR-4-N2. - SBL: light symbol. - SBB: blind symbol. - SBS: scene symbol. - SBD: dimmer symbol.		
White	**SBL-N2BL**	2CLA202610N1102	20
Gray	**SBL-N2GR**	2CLA202610N1402	20
White	**SBB-N2BL**	2CLA202620N1102	20
Gray	**SBB-N2GR**	2CLA202620N1402	20
White	**SBS-N2BL**	2CLA202630N1102	20
Gray	**SBS-N2GR**	2CLA202630N1402	20
White	**SBD-N2BL**	2CLA202640N1102	20
Gray	**SBD-N2GR**	2CLA202640N1402	20

Zenit - ABB-free@home®

Touch displays

Color	Article-No.	Order-No.	Pack/Qty
	**ABB-free@homeTouch 7”** For the central control of up to 16 configurable ABB-free@home® functions of type: switching, dimming, blind, RTC, scene, Philips HUE. Display of the video image of the outdoor station of ABB-Welcome door entry system. Suitable as room temperature controller extension unit (up to 8). Surface mounting. The bus can be connected via enclosed terminal block. Display size / resolution: 17.8 cm (7”) / 800 x 480 Consumer units: 11 Display elements: TFT Touch Display Dimensions: (L x W x D): 155 mm x 218 mm x 29 mm Programming only with bus voltage applied via the web interface of the System Access Point. The power is supplied by the ABB-Welcome system controller or when using the ABB-free@home panel without an ABB-Welcome system, a separate ABB 24 V- power supply is required. Protection class (device): IP30 Temperature range (device): -5 °C to 40 °C		
White	**DP7-S-611**	2CKA008300A0356	1
Black	**DP7-S-625**	2CKA008300A0357	1
	**ABB-free@homeTouch 4.3”** For the central control of up to 16 configurable ABB-free@home® functions. For the display of configurable system messages. A configurable primary function can be triggered with a multi-touch gesture. Capacitive touch screen with closed glass surface. With integrated room temperature controller and temperature sensor. In connection with temperature sensor 6226/T the integrated room temperature controller can be fitted with a remote sensor. Suitable as room temperature controller extension unit (up to 8). Requires additional ABB power supply 24 VDC. Display size / resolution: 10.9 cm (4.3”) / 480 x 854. Mounting height: 8 mm. Control element: freely programmable touch surfaces. Display elements: LCD display Bus voltage: 24 V- Dimensions: (L x W x D): 104 mm x 143 mm x 53 mm Programming only with bus voltage applied via the web interface of the System Access Point. Protection class (device): IP20 Temperature range (device): -5 °C to 40 °C		
White	**DP4-1-611**	2CKA006220A0119	1
Black	**DP4-1-625**	2CKA006220A0120	1
	**Flush mounting installation box** For flush-mounted in hollow-wall installation of the ABB-free@homeTouch 4.3”. Windproof. Installation dimensions (H x W x D): 82 mm. x 123 mm. x 50 mm. Mounting depth: 50 mm. Halogen free.		
Black	**DP4-F**	2CKA006220A0389	1
	**Temperature sensor** For use as remote sensor with ABB- free@homeTouch 4.3”. Line type: H03 VV-F Cable length: 4 m Type: NTC 10 kohm.		
	DP4-T-1	2CKA006220A0721	1

System Access Point

Color	Article-No.	Order-No.	Pack/Qty
	System Access Point 2.0 For commissioning and remote control of the ABB-free@home® system. With integrated free@home wireless antenna. With integrated free@home bus connection. Allows the execution of astro and time programs. Commissioning and remote control is executed via the web interface or app. No additional commissioning software is required. Easy commissioning with WLAN ad-hoc mode. WLAN modes switchable via local operation. Connection to the home network via WLAN client mode or via CAT cable. The bus connection is provided via the enclosed bus terminal. Display elements: LED for status display. Rated voltage: 230 V~; 50/60 Hz. Bus voltage: 24 V. Dimensions: (L x W x D): 107 mm x 109 mm x 30 mm Programming via the web interface of the SAP. Suitable as table device or for wall mounting. 2 x USB ports for future extension of functions. 2.4 GHz and 5 GHz WLAN		
	SAP/S.3	2CKA006200A0155	1
	**External antenna - Wireless** For use with System Access Point SAP-S-2 and SAP-S-127.2. Feed the free@home wireless signal to the outside when the internal antenna of the System Access Point is shielded due to structural conditions. With magnetic base. Cable length: 1.5 m.		
	SAP-1-WL	2CKA006200A0100	1

Weather station

	**Weather station** For recording and transmitting of brightness, temperature, wind speed and rain. Weather data can be linked with actuators to automatically control functions. Weather data can be visualized in the free@home web interface and the free@home app. Wind speed measuring range 2 - 30 m/s The bus can be connected via enclosed terminal block. Rated voltage: 110 V~ - 230 V~; 50/60 Hz. Bus voltage: 24 V- Inputs: 4 Temperature range (sensor): Brightness limit value: 1 lux - 100000 lux Dimensions: (L x W x D): 108 mm x 121 mm x 227 mm Protection class (device): IP44 Temperature range (device): -20 °C to 55 °C		
	WS-1	2CKA006220A0390	1

Power supply

	**Power supply** Power supply with integrated choke. Fast diagnosis due to LED display for operational readiness and errors. The bus can be connected via enclosed terminal block. Display elements: operational load/overload LED Rated voltage: 127 V~ - 230 V~, +10 % / -15 %; 50/60Hz Secondary: 30 V, +2 V / --2 V Outputs: 1 Rated current: 640 mA Protection class (device): IP20 Temperature range (device): -5 °C to 45 °C Dimensions: (L x W x D): 90 mm x 72 mm x 64 mm Module width (DIN-rail): 4 MW		
	PS-M-64.1.1	2CDG510001R0011	1

Zenit - ABB-free@home®

Binary inputs

Product	Article-No.	Order-No.	Pack/Qty
	**Binary input 2-gang** Conventional push-buttons or auxiliary contacts can be connected to 2 channels. The information of the contact scanning can be used for activating ABB-free@home® actuators or for recording status information. The contact polling voltage is made available from the binary input itself. Extension of the connecting cables possible by a maximum of 10 m. Flush-mounted device for installation in a 60 mm device box or distribution box. The bus can be connected via enclosed terminal block. Programming only with bus voltage applied via the web interface of the System Access Point. Bus voltage: 24 V Inputs: 2 Polling voltage: 20 V- Dimensions: (L x W x D): 39 mm x 40 mm x 12 mm.		
	BI-F-2.0.1	2CDG510002R0011	1
	**Binary input 4-gang** Conventional push-buttons or auxiliary contacts can be connected to 4 channels. The information of the contact scanning can be used for activating ABB-free@home® actuators or for recording status information. The contact polling voltage is made available from the binary input itself. Extension of the connecting cables possible by a maximum of 10 m. Flush-mounted device for installation in a 60 mm device box or distribution box. The bus can be connected via enclosed terminal block. Programming only with bus voltage applied via the web interface of the System Access Point. Bus voltage: 24 V Inputs: 4 Polling voltage: 20 V- Dimensions: (L x W x D): 39 mm x 40 mm x 12 mm		
	BI-F-4.0.1	2CDG510003R0011	1
	**Binary input 4-gang** The device detects AC/DC signals of 10 - 230 V via 4 channels. The information of the signal evaluation can be used for controlling ABB-free@home® actuators or for recording status information. The bus can be connected via enclosed terminal block. Programming only with bus voltage applied via the web interface of the System Access Point. Bus voltage: 24 V Inputs: 4 Module width DIN-rail): 2 MW		
	BI-M-4.0.1	2CDG510004R0011	1

Switch actuators

Product	Article-No.	Order-No.	Pack/Qty
	**Binary input 8-gang / switch actuator 8-gang** With 8 binary inputs and 8 switch actuators. Zenit push-buttons or auxiliary contacts can be connected to 8 channels. These can be used for activating ABB-free@home® actuators or for recording status information. Maximum cable length at a cable cross-section of 1.5 mm² < 100 m For switching 8 independent 127/230 V~ loads. No additional commissioning software is required. Bus voltage: 24 V Inputs: 8 Polling voltage: 32 V- Outputs: 8 Normally Open contact, potential free Suitable for: AC1 (Output voltage: 230 V~) Rated current: 6 A, cos □0.8 Suitable for: AC3 (Output voltage: 230 V~) Rated current: 6 A, cos □0.45 Module width (DIN-rail): 8 MW.		
	SA-M-8.8.1	2CDG510007R0011	1
	**Switch actuator 4-gang** For switching 4 independent 127/230 V~ loads. Each contact has a manual operation function independent of auxiliary voltage for additionally displaying the contact setting. Control element: relay control element. Display elements: relay control element. Power dissipation: 4 W Bus voltage: 24 V Outputs: 4 Suitable for: AC1 (Output voltage: 230 V~) Rated current: 16 A, cos □0.8 Suitable for: AC3 Rated current: 8 A, cos □0.45 Module width (DIN-rail): 4 MW.		
	SA-M-0.4.1	2CDG510006R0011	1

Blind actuator

Product	Article-No.	Order-No.	Pack/Qty
	**Blind actuator 4-gang** Control of 4 independent blind or roller shutters. The outputs are inversely blocked. Power dissipation: 2 W Bus voltage: 24 V Outputs: 4 Suitable for: AC3 (Output voltage: 230 V~) Rated current: 6 A, cos □0.45 Module width (DIN-rail): 4 MW.		
	BA-M-0.4.1	2CDG510011R0011	1

Zenit - ABB-free@home®

Dimming actuator

Product	Article-No.	Order-No.	Pack/Qty
	**Dimming actuator 4-gang - 230Vac** Multi-channel universal dimming actuator for controlling LEDs, incandescent lamps, 230 V halogen lamps, low-voltage halogen lamps with conventional or electronic transformers, and dimmable energy-saving halogen lamps. For dimmable Retrofit-LEDs (LEDi). Increasing the max. load via channel bridging possible. The outputs can be switched parallel in any combination. Outputs automatically recognize the connected load. In addition, the operating mode can be selected manually. Status indication of the channels via LED. The bus can be connected via enclosed terminal block. Display elements: outputs status indication via LED. Programming only with bus voltage applied via the web interface of the System Access Point. Rated voltage: 230 V~; 50/60 Hz Bus voltage: 24 V Outputs: 4 dimming channel Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformer. Rated power: 10 - 315 W/VA Suitable for: LEDi and energy-saving bulbs; typical Rated power: 2 - 80 W/VA Protection class (device): IP20 Temperature range (device): -5 °C to 45 °C Dimensions: (L x W x D): 90 mm x 144 mm x 64 mm Module width (DIN-rail): 8 MW.		
	DA-M-0.4.2	2CKA006220A0395	1
	**Dimming actuator 4-gang - 127Vac** Multi-channel universal dimming actuator for controlling LEDs, incandescent lamps, 230 V halogen lamps, low-voltage halogen lamps with conventional or electronic transformers, and dimmable energysaving halogen lamps. For dimmable Retrofit-LEDs (LEDi). Increasing the max. load via channel bridging. The outputs can be switched parallel. Outputs automatically recognize the connected load. The operating mode can be selected manually. Status indication of the channels via LED. Display elements: outputs status indication via LED. Rated voltage: 127 V~; 50/60 Hz Bus voltage: 24 V Outputs: 4 dimming channel Suitable for: 127 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformer. Rated power: 5 - 150 W/VA Suitable for: LEDi and energy-saving bulbs; typical Rated power: 2 - 40 W/VA Module width (DIN-rail): 8 MW.		
	DA-M-0.4.127.1	2CKA006220A0239	1

Heating & fan coil actuators

Product	Article-No.	Order-No.	Pack/Qty
	**Heating actuator 6-gang** For controlling thermoelectric actuating drives in heating/cooling systems. The outputs are protected against short-circuit and overload. The bus can be connected via enclosed terminal block. Programming only with bus voltage applied via the web interface of the System Access Point. Power dissipation: 2 W Bus voltage: 24 V Outputs: 6 Suitable for: resistive Rated current: 160 mA Module width (DIN-rail): 4 MW.		
	HA-M-0.6.1	2CDG510008R0011	1
	**Heating actuator 12-gang** For controlling thermoelectric actuating drives in heating/cooling systems. The outputs are protected against short-circuit and overload. The bus can be connected via enclosed terminal block. Programming only with bus voltage applied via the web interface of the System Access Point. Power dissipation: 4 W Bus voltage: 24 V Outputs: 12 Suitable for: ohmic Rated current: 160 mA Module width: 8 MW.		
	HA-M-0.12.1	2CDG510009R0011	1
	**Fan coil actuator** For controlling blower convectors. Supports 2-pipe and 4-pipe system for heating and cooling. The fan speed levels can be switched using a changeover or step switch function. Three contacts for switching a three-stage fan. Two contacts for activating the heating and cooling valves. Supports 24V and 230V valves. With two binary inputs for connecting dew-point and condensation contacts. The scanning voltage is provided by the device. The bus connection is provided via the enclosed bus terminal. Programming only with bus voltage applied via the web interface of the System Access Point. Bus voltage: 24 V Inputs: 2 Polling voltage: 10 V- Outputs: 3 Normally Open contact, potential free Suitable for: AC3 (Output voltage: 230 V~) Rated current: 6 A Module width (DIN-rail): 6 MW.		
	FCA-M-2.3.1	2CDG510010R0011	1

Zenit - ABB i-bus® KNX

Push switch sensors

Product	Article-No.	Order-No.	Pack/Qty
	**KNX sensor - 1/2-gang - 1M** NEW Push switch function: switching, dimming, blind or scene. Display elements: LED to indicate the function. To be installed with N2121, N2121.1, N2121.3, N2121.5, N2121.8, N2121.9 or N21 customized rockers.		
	RS/U 1.1	2CSY244490R1012	1
	**KNX sensor - 2/4-gang - 2M** NEW Push switch function: switching, dimming, blind or scene. Display elements: LED to indicate the function. To be installed with N2121, N2121.1, N2121.3, N2121.5, N2121.8, N2121.9 or N21 customized rockers.		
	RS/U 2.1	2CSY247450R1003	1

Push switch sensor & switch actuators

	**KNX sensor/switch actuator - 2/1-gang - 2M** NEW Push switch function: switching, dimming, blind or scene. Display elements: LED to indicate the function. Outputs: 1x potential free contact. Rated current: 16 A. To be installed with N2121, N2121.1, N2121.3, N2121.5, N2121.8, N2121.9 or N21 customized rockers.		
	RA/U 1.16.1	2CSY249580R1103	1
	**KNX sensor/switch actuator - 2/2-gang - 2M** NEW Push switch function: switching, dimming, blind or scene. Display elements: LED to indicate the function. Outputs: 2x potential free contacts. Rated current: 8 A. To be installed with N2121, N2121.1, N2121.3, N2121.5, N2121.8, N2121.9 or N21 customized rockers.		
	RA/U 2.8.1	2CSY242150R1106	1

Push switch sensor & blind actuators

	**KNX sensor/blind actuator - 1/1-gang - 2M** NEW Push switch function: switching, dimming, blind or scene. Display elements: LED to indicate the function. Outputs: 1x change-over contacts/potential-bound Rated current: 8 A. To be installed with N2221, N2221.1, N2221.3, N2221.5, N2221.8, N2221.9 or N22 customized rockers.		
	RB/U 1.1	2CSY247240R1105	1

Rockers for push switch sensors

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker cover without symbol - 1M** NEW Rocker cover without symbol for KNX sensor/actuator. Suitable for codes: RS/U 1.1 and left and right positions of RS/U 2.1, RA/U 1.16.1 and RA/U/ 2.8.1.		
White	**N2121 BL**	2CLA212100N1101	10
Silver	**N2121 PL**	2CLA212100N1301	10
Anthracite	**N2121 AN**	2CLA212100N1801	10
Champagne	**N2121 CV**	2CLA212100N1901	10
Total White	**N2121 BB**	2CLA212100N1201	10
Total Anthracite	**N2121 AA**	2CLA212100N1601	10
	**Rocker cover without symbol - 2M** NEW Rocker cover without symbol for KNX sensor/actuator. Suitable for codes: RB/U 1.1.		
White	**N2221 BL**	2CLA222100N1101	10
Silver	**N2221 PL**	2CLA222100N1301	10
Anthracite	**N2221 AN**	2CLA222100N1801	10
Champagne	**N2221 CV**	2CLA222100N1901	10
Total White	**N2221 BB**	2CLA222100N1201	10
Total Anthracite	**N2221 AA**	2CLA222100N1601	10

Zenit - ABB i-bus® KNX

Rockers for push switch sensors

Color	Article-No.	Order-No.	Pack/Qty
	**Rocker cover with lamp symbol - 1M** Rocker cover with lamp symbol for KNX sensor/actuator. Suitable for codes: RS/U 1.1 and left position of RS/U 2.1, RA/U 1.16.1 and RA/U/ 2.8.1.	NEW	
White	**N2121.1 BL**	2CLA212110N1101	10
Silver	**N2121.1 PL**	2CLA212110N1301	10
Anthracite	**N2121.1 AN**	2CLA212110N1801	10
Champagne	**N2121.1 CV**	2CLA212110N1901	10
Total White	**N2121.1 BB**	2CLA212110N1201	10
Total Anthracite	**N2121.1 AA**	2CLA212110N1601	10
	**Rocker cover with lamp symbol - Right - 1M** Rocker cover with lamp symbol for KNX sensor/actuator. Suitable for codes: right position of RS/U 2.1, RA/U 1.16.1 and RA/U/ 2.8.1.	NEW	
White	**N2121.1R BL**	2CLA212112N1101	10
Silver	**N2121.1R PL**	2CLA212112N1301	10
Anthracite	**N2121.1R AN**	2CLA212112N1801	10
Champagne	**N2121.1R CV**	2CLA212112N1901	10
Total White	**N2121.1R BB**	2CLA212112N1201	10
Total Anthracite	**N2121.1R AA**	2CLA212112N1601	10
	**Rocker cover with lamp symbol - 2M** Rocker cover with lamp symbol for KNX sensor/actuator. Suitable for codes: RB/U 1.1.	NEW	
White	**N2221.1 BL**	2CLA222110N1101	10
Silver	**N2221.1 PL**	2CLA222110N1301	10
Anthracite	**N2221.1 AN**	2CLA222110N1801	10
Champagne	**N2221.1 CV**	2CLA222110N1901	10
Total White	**N2221.1 BB**	2CLA222110N1201	10
Total Anthracite	**N2221.1 AA**	2CLA222110N1601	10

Color	Article-No.	Order-No.	Pack/Qty
	**Rocker cover with blind symbol - 1M** Rocker cover with blind symbol for KNX sensor/actuator. Suitable for codes: RS/U 1.1 and left and right positions of RS/U 2.1, RA/U 1.16.1 and RA/U/ 2.8.1.	NEW	
White	**N2121.3 BL**	2CLA212130N1101	10
Silver	**N2121.3 PL**	2CLA212130N1301	10
Anthracite	**N2121.3 AN**	2CLA212130N1801	10
Champagne	**N2121.3 CV**	2CLA212130N1901	10
Total White	**N2121.3 BB**	2CLA212130N1201	10
Total Anthracite	**N2121.3 AA**	2CLA212130N1601	10
	**Rocker cover with blind symbol - 2M** Rocker cover with blind symbol for KNX sensor/actuator. Suitable for codes: RB/U 1.1.	NEW	
White	**N2221.3 BL**	2CLA222130N1101	10
Silver	**N2221.3 PL**	2CLA222130N1301	10
Anthracite	**N2221.3 AN**	2CLA222130N1801	10
Champagne	**N2221.3 CV**	2CLA222130N1901	10
Total White	**N2221.3 BB**	2CLA222130N1201	10
Total Anthracite	**N2221.3 AA**	2CLA222130N1601	10

Zenit - ABB i-bus® KNX

Rockers for push switch sensors

Color	Article-No.	Order-No.	Pack/Qty
	**Rocker cover with ON/OFF symbol - 1M** Rocker cover with ON/OFF symbol for KNX sensor/actuator. Suitable for codes: RS/U 1.1 and left position of RS/U 2.1, RA/U 1.16.1 and RA/U/ 2.8.1.	NEW	
White	**N2121.5 BL**	2CLA212150N1101	10
Silver	**N2121.5 PL**	2CLA212150N1301	10
Anthracite	**N2121.5 AN**	2CLA212150N1801	10
Champagne	**N2121.5 CV**	2CLA212150N1901	10
Total White	**N2121.5 BB**	2CLA212150N1201	10
Total Anthracite	**N2121.5 AA**	2CLA212150N1601	10
	**Rocker cover with ON/OFF symbol - Right - 1M** Rocker cover with ON/OFF symbol for KNX sensor/actuator. Suitable for codes: right position of RS/U 2.1, RA/U1.16.1 and RA/U/ 2.8.1.	NEW	
White	**N2121.5R BL**	2CLA212152N1101	10
Silver	**N2121.5R PL**	2CLA212152N1301	10
Anthracite	**N2121.5R AN**	2CLA212152N1801	10
Champagne	**N2121.5R CV**	2CLA212152N1901	10
Total White	**N2121.5R BB**	2CLA212152N1201	10
Total Anthracite	**N2121.5R AA**	2CLA212152N1601	10
	**Rocker cover with ON/OFF symbol - 2M** Rocker cover with ON/OFF symbol for KNX sensor/actuator. Suitable for codes: RB/U 1.1.	NEW	
White	**N2221.5 BL**	2CLA222150N1101	10
Silver	**N2221.5 PL**	2CLA222150N1301	10
Anthracite	**N2221.5 AN**	2CLA222150N1801	10
Champagne	**N2221.5 CV**	2CLA222150N1901	10
Total White	**N2221.5 BB**	2CLA222150N1201	10
Total Anthracite	**N2221.5 AA**	2CLA222150N1601	10

Color	Article-No.	Order-No.	Pack/Qty
	**Rocker cover with dimmer symbol - 1M** Rocker cover with dimmer symbol for KNX sensor/actuator. Suitable for codes: RS/U 1.1 and left position of RS/U 2.1, RA/U 1.16.1 and RA/U/ 2.8.1.	NEW	
White	**N2121.8 BL**	2CLA212180N1101	10
Silver	**N2121.8 PL**	2CLA212180N1301	10
Anthracite	**N2121.8 AN**	2CLA212180N1801	10
Champagne	**N2121.8 CV**	2CLA212180N1901	10
Total White	**N2121.8 BB**	2CLA212180N1201	10
Total Anthracite	**N2121.8 AA**	2CLA212180N1601	10
	**Rocker cover with dimmer symbol - Right - 1M** Rocker cover with dimmer symbol for KNX sensor/actuator. Suitable for codes: right position of RS/U 2.1, RA/U1.16.1 and RA/U/ 2.8.1.	NEW	
White	**N2121.8R BL**	2CLA212182N1101	10
Silver	**N2121.8R PL**	2CLA212182N1301	10
Anthracite	**N2121.8R AN**	2CLA212182N1801	10
Champagne	**N2121.8R CV**	2CLA212182N1901	10
Total White	**N2121.8R BB**	2CLA212182N1201	10
Total Anthracite	**N2121.8R AA**	2CLA212182N1601	10
	**Rocker cover with dimmer symbol - 2M** Rocker cover with dimmer symbol for KNX sensor/actuator. Suitable for codes: RB/U 1.1.	NEW	
White	**N2221.8 BL**	2CLA222180N1101	10
Silver	**N2221.8 PL**	2CLA222180N1301	10
Anthracite	**N2221.8 AN**	2CLA222180N1801	10
Champagne	**N2221.8 CV**	2CLA222180N1901	10
Total White	**N2221.8 BB**	2CLA222180N1201	10
Total Anthracite	**N2221.8 AA**	2CLA222180N1601	10

Zenit - ABB i-bus® KNX

Rockers for push switch sensors

Color	Article-No.	Order-No.	Pack/Qty
	**Rocker cover with scene symbol - 1M** Rocker cover with scene symbol for KNX sensor/actuator. Suitable for codes: RS/U 1.1 and left position of RS/U 2.1, RA/U 1.16.1 and RA/U/ 2.8.1.	NEW	
White	**N2121.9 BL**	2CLA212190N1101	10
Silver	**N2121.9 PL**	2CLA212190N1301	10
Anthracite	**N2121.9 AN**	2CLA212190N1801	10
Champagne	**N2121.9 CV**	2CLA212190N1901	10
Total White	**N2121.9 BB**	2CLA212190N1201	10
Total Anthracite	**N2121.9 AA**	2CLA212190N1601	10
	**Rocker cover with scene symbol - Right - 1M** Rocker cover with scene symbol for KNX sensor/actuator. Suitable for codes: right position of RS/U 2.1, RA/U 1.16.1 and RA/U/ 2.8.1.	NEW	
White	**N2121.9R BL**	2CLA212192N1101	10
Silver	**N2121.9R PL**	2CLA212192N1301	10
Anthracite	**N2121.9R AN**	2CLA212192N1801	10
Champagne	**N2121.9R CV**	2CLA212192N1901	10
Total White	**N2121.9R BB**	2CLA212192N1201	10
Total Anthracite	**N2121.9R AA**	2CLA212192N1601	10
	**Rocker cover with scene symbol - 2M** Rocker cover with scene symbol for KNX sensor/actuator. Suitable for codes: RB/U 1.1.	NEW	
White	**N2221.9 BL**	2CLA222190N1101	10
Silver	**N2221.9 PL**	2CLA222190N1301	10
Anthracite	**N2221.9 AN**	2CLA222190N1801	10
Champagne	**N2221.9 CV**	2CLA222190N1901	10
Total White	**N2221.9 BB**	2CLA222190N1201	10
Total Anthracite	**N2221.9 AA**	2CLA222190N1601	10

Customized rockers

Color	Article-No.	Order-No.	Pack/Qty
	**Rocker cover with custom symbol - 1M** Rocker cover with custom symbol for KNX sensor/actuator. Symbol size: 5,6 x 5,6 mm. Suitable for codes: RS/U 1.1 and left position of RS/U 2.1, RA/U 1.16.1 and RA/U/ 2.8.1.	NEW	
White	**N2121.01 BL**	2CLA212101N1101	10
Silver	**N2121.01 PL**	2CLA212101N1301	10
Anthracite	**N2121.01 AN**	2CLA212101N1801	10
Champagne	**N2121.01 CV**	2CLA212101N1901	10
Total White	**N2121.01 BB**	2CLA212101N1201	10
Total Anthracite	**N2121.01 AA**	2CLA212101N1601	10
	**Rocker cover with custom symbol - Right - 1M** Rocker cover with custom symbol for KNX sensor/actuator. Symbol size: 5,6 x 5,6 mm. Suitable for codes: right position of RS/U 2.1, RA/U 1.16.1 and RA/U/ 2.8.1.	NEW	
White	**N2121.02 BL**	2CLA212102N1101	10
Silver	**N2121.02 PL**	2CLA212102N1301	10
Anthracite	**N2121.02 AN**	2CLA212102N1801	10
Champagne	**N2121.02 CV**	2CLA212102N1901	10
Total White	**N2121.02 BB**	2CLA212102N1201	10
Total Anthracite	**N2121.02 AA**	2CLA212102N1601	10
	**Rocker cover with custom symbol - 2M** Rocker cover with custom symbol for KNX sensor/actuator. Symbol size: 5,6 x 5,6 mm Suitable for codes: RB/U 1.1.	NEW	
White	**N2221.01 BL**	2CLA222101N1101	10
Silver	**N2221.01 PL**	2CLA222101N1301	10
Anthracite	**N2221.01 AN**	2CLA222101N1801	10
Champagne	**N2221.01 CV**	2CLA222101N1901	10
Total White	**N2221.01 BB**	2CLA222101N1201	10
Total Anthracite	**N2221.01 AA**	2CLA222101N1601	10

Zenit - ABB i-bus® KNX

ID number definition

Customized rockers for RS/U 1.1 and left position of RS/U 2.1, RA/U 1.16.1 and RA/U/ 2.8.1:



Customized rockers for right position of RS/U 2.1, RA/U 1.16.1 and RA/U/ 2.8.1:



Customized rockers for right position of RS/U 1.1:



To define the ID Number of the customized rocker:
1) Substitute XXX by 3-digit Symbol Number of the icon to print at the upper side of the rocker
2) Substitute XYYY by 3-digit Symbol Number of the icon to print at the lower side of the rocker

Symbols

Symbol	Symbol-No.
	000 No symbol
	001 Light on
	002 Light off
	003 Light on detail
	004 Lamp plane
	005 Lamp line
	006 Lamp ceiling plane
	007 Lamp wall plane
	008 Lamp floor plane
	009 Dim
	010 Light dimmed
	011 Light increase
	012 Light decrease
	013 Light incr./ decrease
	014 Spotlight
	015 Spotlight plane
	016 Door
	017 Window
	017 Jalousie open

Symbol	Symbol-No.
	019 Jalousie mid
	020 Jalousie closed
	021 Hang open
	022 Hang mid
	023 Hang closed
	024 Blind open
	025 Blind mid
	026 Blind closed
	027 Curtain open
	028 Curtain closed
	029 Heating
	030 Cooling
	031 Antifreeze
	032 Temperature increase
	033 Temperature decrease
	034 Temperature control
	035 Temperature c
	036 Temperature f
ECO	**037** Eco

Symbol	Symbol-No.
	038 Eco plane
	039 Fan
	040 Heat protection
	041 Scene line
	042 Scene plane
	043 Sequence
	044 Scene day
	045 Night plane
	046 Scene night
	047 Party
	048 Dinner plane
	049 Eat
	050 Absence line
	051 Presence home
	052 Reading
	053 TV
	054 Make Up Room (MUR)
	055 Conference
	056 Presentation

Zenit - ABB i-bus® KNX

Symbols

Symbol	Symbol-No.
	**057** Emer-gency call
	**058** Exterior lighting
	**059** Bowling
	**060** Swimming
	**061** Reception
	**062** Showroom
	**063** Relax
	**064** Work
	**065** Do Not Disturb (DND)
	**066** Scene welcome
	**067** Dishwash-er
	**068** Hob
	**069** Microwave
	**070** Oven
	**071** Washing-machine
	**072** Open plane
	**073** Outlet line
	**074** Camera extern
	**075** On off

Symbol	Symbol-No.
	076 On
	**077** Off
	**078** Cardread-er
	**079** Bathroom
	**080** Laundry
	**081** Shave
	**082** Coffee
	**083** Wellness
	**084** Cloakroom
	**085** Wlan
	**086** Caretaker
	**087** Parking garage
	**088** Lift
	**089** Stairs
	**090** Lavatory
	**091** Lavatory men
	**092** Lavatory ladies
	**093** Baby change
	**094** Disabled facilities

Symbol	Symbol-No.
	**095** First aid
	**096** Defibril-lator
	097 Doctor
	098 Pharmacy RX
	099 Pharmacy Germany
	100 Mail
	101 Message center
	102 Call
	103 Micro
	104 Micro off
	105 Intercom inside
	106 Intercom outside
	107 Audio
	108 Play
	109 Pause
	110 Stop
	111 Backwards
	112 Forward
	113 Skip back

Symbol	Symbol-No.
	114 Skip forward
	115 Speaker
	116 Speaker off
	117 Channel
	118 Stepwise increase
	119 Stepwise decrease
	120 Info
	121 Device on
	122 Device dimmed
	123 Device off
	124 Settings
	125 Menu
	126 Active
	127 Plus
	128 Minus
	129 Language
	130 Up
	131 Down
	132 Right

Symbol	Symbol-No.
	133 Left
	134 Up filled
	135 Down filled
	136 Right filled
	137 Left filled
	138 Up line
	139 Down line
	140 Right line
	141 Left line
	142 Up step
	143 Down step
	144 Clock
	145 Timer
	146 Alarm clock
	147 **Bell off**
	148 Bell
	149 Snapshot
	150 Guard
	151 Charge car

Symbol	Symbol-No.
	152 Charge phone
	153 Charge bike
	154 Charge station
	155 Square
ON	**156** On
OFF	**157** Off

Zenit - ABB i-bus® KNX

Push-button sensors

Product	Article-No.	Order-No.	Pack/Qty
	**KNX sensor - 1/2-gang - 2M** Push button function: switching / dimming / blind / sending values / scenes etc. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). The accompanying symbol can be replaced by the symbols for lighting, blinds, room thermostat, scene and fan-coil. Control element: Switch contacts. Display elements: LED to indicate the function. To be installed with N2221.2 cover plates.		
	6125/98-509	2CKA006115A0444	1
	**KNX sensor - 2/4-gang - 2M** Push button function: switching / dimming / blind / sending values / scenes etc. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). The accompanying symbol can be replaced by the symbols for lighting, blinds, room thermostat, scene and fan-coil. Control element: Switch contacts. Display elements: LED to indicate the function. To be installed with N2221.4 cover plates.		
	6126/98-509	2CKA006116A0219	1
	**KNX sensor - 3/6-gang - 2M** Push button function: switching / dimming / blind / sending values / scenes etc. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). The accompanying symbol can be replaced by the symbols for lighting, blinds, room thermostat, scene and fan-coil. Control element: Switch contacts. Display elements: LED to indicate the function. To be installed with N2221.6 cover plates.		
	6129/96-509	2CKA006118A0105	1
	**KNX sensor - 3/6-gang with IR receiver - 2M** Push button function: switching / dimming / blind / sending values / scenes etc. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). The accompanying symbol can be replaced by the symbols for lighting, blinds, room thermostat, scene and fan-coil. Control element: Switch contacts. Display elements: LED to indicate the function. To be installed with N2221.7 cover plates.		
	6129/96-509	2CKA006118A0108	1

Covers for sensors

Color	Article-No.	Order-No.	Pack/Qty
	**Cover plate - KNX 1/2-gang sensors - 2M** Cover plate for KNX sensors 1/2-gang code: 6125/98-509.		
White	**N2221.2 BL**	2CLA222120N1101	1
Silver	**N2221.2 PL**	2CLA222120N1301	1
Anthracite	**N2221.2 AN**	2CLA222120N1801	1
Champagne	**N2221.2 CV**	2CLA222120N190	1
	**Cover plate - KNX 2/4-gang sensors - 2M** Cover plate for KNX sensors 2/4-gang code: 6126/98-509.		
White	**N2221.4 BL**	2CLA222140N1101	1
Silver	**N2221.4 PL**	2CLA222140N1301	1
Anthracite	**N2221.4 AN**	2CLA222140N1801	1
Champagne	**N2221.4 CV**	2CLA222140N1901	1
	**Cover plate - KNX 3-gang sensors - 2M** Cover plate for KNX sensors 3/6-gang code: 6129/96-509.		
White	**N2221.6 BL**	2CLA222160N1101	1
Silver	**N2221.6 PL**	2CLA222170N1301	1
Anthracite	**N2221.6 AN**	2CLA222170N1801	1
Champagne	**N2221.6 CV**	2CLA222170N1901	1
	**Cover plate - KNX 3-gang sensors - 2M** Cover plate for KNX sensors 3/6-gang code: 6129/96-509.		
White	**N2221.7 BL**	2CLA222170N1101	1
Silver	**N2221.7 PL**	2CKA006123A0001	1
Anthracite	**N2221.7 AN**	2CLA222160N1801	1
Champagne	**N2221.7 CV**	2CLA222160N1901	1
	**KNX button with symbol** **Button with ABB i-bus® KNX symbol for sensor's cover plates code: N2221.2, N2221.4, N2221.6 and N2221.7.** **Color: gray**		
Light	**6123/20-500**	2CKA006123A0001	1
Blind	**6123/21-500**	2CKA006123A0002	1
Scene	**6123/22-500**	2CKA006123A0003	1
RTC	**6123/23-500**	2CKA006123A0004	1
Lamp	**6123/24-500**	2CKA006123A0005	1
Fan-coil	**6123/26-500**	2CKA006123A0006	1

Zenit - ABB i-bus® KNX

Room temperature controller

Product	Article-No.	Order-No.	Pack/Qty
	**KNX room temperature controller - 2M** For triggering the heating, ventilation and fan-coil actuators. Thermostat for fan-coil units in 2 and 4 pipe systems and conventional heating or cooling systems. Fan stage can be switched manually or in automatic mode. Switch contacts for operating mode selection and dial for setpoint or fan speed adjustment. Display elements: LCD showing operation modes. To be installed with N2240.4 cover plates.		
	6124/98-509	2CKA006134A0297	1
	**Cover plate - KNX RTC - 2M** Cover plate for KNX RTC sensors code: 6124/98-509.		
White	**N2240.4 BL**	2CLA224040N1101	1
Silver	**N2240.4 PL**	2CLA224040N1301	1
Anthracite	**N2240.4 AN**	2CLA224040N1801	1
Champagne	**N2240.4 CV**	2CLA224040N1901	1
	**KNX thermostat - 2M** NEW Standard KNX thermostat equipped with backlight LCD display 4 push buttons on the front for the following functionalities (Operating mode switching, Fan-coil speed manual switching, set-point manual increment/decrement). Possibility to choose different type of control: 2-point ON/OFF, PWM, Continue, Fan- coil Cover plate included.		
White	**RT/U 1.1.ZW**	2CSY244280R1202	1
Silver	**RT/U 1.1.ZS**	2CSY242280R1202	1
Anthracite	**RT/U 1.1.ZA**	2CSY249370R1202	1
Champagne	**RT/U 1.1.ZC**	2CSY247370R1202	1

Motion sensor

Product	Article-No.	Order-No.	Pack/Qty
	**KNX 180° motion sensor - 2M** Movement detector with up to 4 channels. Detection range: frontal: 6 m, lateral: 6 m. Brightness limit value: 5 - 150 lux. Detection angle: 180 ° Wall mounted. Mounting height: 1.1 m. To be installed with N2241.4 cover plates.		
	6122/98-509	2CKA006132A0307	1
	**Cover plate - KNX RTC - 2M** Cover plate for KNX RTC sensors code: 6124/98-509.		
White	**N2241.4 BL**	2CLA224140N1101	1
Silver	**N2241.4 PL**	2CLA224140N1301	1
Anthracite	**N2241.4 AN**	2CLA224140N1801	1
Champagne	**N2241.4 CV**	2CLA224140N1901	1

Zenit - ABB i-bus® KNX

Transponder holder

Product	Article-No.	Order-No.	Pack/Qty
	**KNX transponder holder - 2M** NEW The “transponder holder” is a flush-mounting device for British Standard wall boxes, designed to realize access control systems with a communication support based on KNX bus. It is equipped with one relay (4A @24V AC/DC) and one binary input to be used for connecting external conventional push-button for switch, dimmer and shutter functionalities, or for example for connecting window contact or similar. The output can be programmed as “Linked to access control”, receiving in this case switching commands from the device itself (according to card insertion/removal); or being a standard KNX Switch actuator output, able to be controlled by every KNX-standard devices. The white blinking LED placed on the front of the device allow you to monitor device operation and can be also switched ON/OFF in the proper color according to KNX. The transponder reader requires a 12...24 V AC/DC external power supply to ensure its operation even with bus voltage failure. Cover plate included.		
White	**TH/U 1.1.ZW**	2CSY244340R5200	1
Silver	**TH/U 1.1.ZS**	2CSY242070R5200	1
Anthracite	**TH/U 1.1.ZA**	2CSY249430R5200	1
Champagne	**TH/U 1.1.ZC**	2CSY247160R5200	1

Transponder reader

Product	Article-No.	Order-No.	Pack/Qty
	**KNX transponder reader - 2M** NEW The “transponder reader” is a flush-mounting device for British Standard wall boxes, designed to realize access control systems with a communication support based on KNX bus. It is equipped with one relay (4A @24 V AC/DC) and one input to be used for connecting external conventional card-holder (e.g. Zenit wiring accessories card-holder). The output can be programmed in three different ways: “Linked to access control”, receiving in this case switching commands from the device itself (according to transponder card validation); being a standard KNX Switch actuator output, able to be controlled by every KNXstandard devices; “linked to card-holder”, that means that the relay is switched according to closing/opening internal input contact available on transponder reader. The bicolor (red-green) LED placed on the front of the device allow you to monitor device operation and can be also switched ON/OFF in the proper color according to KNX telegram (for example for DND/MUR purposes). The transponder reader can be configured with ABB control software in order to behave as transponder programming device. The transponder reader requires a 12...24 V AC/DC external power supply to ensure its operation even with bus voltage failure. Cover plate included.		
White	**TR/U 1.1.ZW**	2CSY244410R5000	1
Silver	**TR/U 1.1.ZS**	2CSY242210R5000	1
Anthracite	**TR/U 1.1.ZA**	2CSY249500R5000	1
Champagne	**TR/U 1.1.ZC**	2CSY247300R5000	1

Notes

Zenit Float

Frames for European square and round boxes

01



7,5 mm height. Visually lightened through the 2 piece floating effect.

02

03

01 Side view, 7,5 × 85 mm (8 × 90 mm for noble materials)
1 to 5-gang cover frame suitable for horizontal and vertical installation
02 Frame 1-gang, 1 module
03 Frame 1-gang, 2 modules
04 Frame 2-gang, 2 + 2 modules
05 Frame 3-gang, 2 + 2 + 2 modules horizontal
06 Frame 3-gang, 2 + 2 + 2 modules vertical
07 Frame 4-gang, 2 + 2 + 2 + 2 modules
08 Frame 5-gang, 2 + 2 + 2 + 2 + 2 modules

04

05

06

07

08

Zenit Float

Frames for 3M (4"×2"), 4M, 7M, 4"×4" and BS 3"×3" boxes

09

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1 to 3 module cover frames for 3 module or 4"×2" box vertical installation habits (American)
09 Frame blank for 3 modules box
10 Frame 1 module vertical for 3 modules box
11 Frame 1 module for 3 modules box
12 Frame 1 + 1 modules for 3 modules box
13 Frame 2 modules for 3 modules box
14 Frame 3 modules in 3 modules box

1 to 7 module cover frames for 3, 4 and 7 module box horizontal installation habit (Italian)
15 Frame 1 module for 3 modules box
16 Frame 1 + 1 modules for 3 modules box
17 Frame 2 modules for 3 modules box
18 Frame 3 modules in 3 modules box
19 Frame 4 modules for 4 modules box
20 Frame 7 modules in 7 modules box

3+3 module cover frames for 4"×4" box installation habit (American and Eastern Asia)
21 Frame blank for 4"×4" box
22 Frame 1 + 1 modules for 4"×4" box
23 Frame 2 + 2 modules for 4"×4" box
24 Frame 1 + 1 + 1 + 1 modules for 4"×4" box
25 Frame 3 + 3 modules for 4"×4" box

Frames for 3 modules in BS 3"×3" square box
26 Frame 1-gang / 3 modules for square box

Zenit Float

Frames for European square and round boxes

BL - White



CB - White Glass



CC - Coffee Glass



PZ - Slate



PL - Silver



CN - Black Glass



CF - Graphite Glass



OX - Stainless Steel



AN - Anthracite



CP - Pearl Glass



CH - Champagne Glass



WG - Wenge



CV - Champagne



Logo placement in horizontal and vertical installations

Niessen logo - Horizontal



Niessen logo - Vertical



ABB logo - Horizontal



ABB logo - Vertical



Zenit Float

Frames for 3M (4"×2"), 4M, 7M, 4"×4" and 4"×4" boxes

BL - White



CB - White Glass



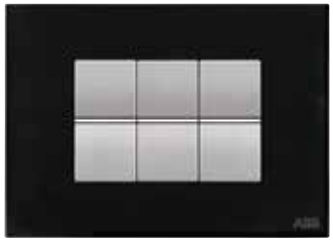
CF - Graphite Glass



PL - Silver



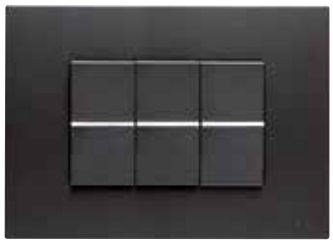
CN - Black Glass



CH - Champagne Glass



AN - Anthracite



CP - Pearl Glass



OX - Stainless Steel



CV - Champagne



CC - Coffee Glass



WG - Wenge



PZ - Slate



Zenit Float - Niessen logo

Frames for European square and round boxes

Frames 1 to 5-gang - Polycarbonate
Material: polycarbonate
Size (height x width):
- 1-gang: 85 x 85 mm.
- 2-gang: 85 x 156 mm.
- 3-gang: 85 x 227 mm.
- 4-gang: 85 x 298 mm.
- 5-gang: 85 x 369 mm.

Mounting grid code suitable for 60 mm screw distance boxes: N2271.9, N2271.9G, N2272.9 and N2273.9 (N2272.9 and N2273.9 only for horizontal installation).
Flush mounting boxes code: 1099, 1999 & 1999.2.
Surface mounting boxes code: 8591, 8592 & 8593.

Size	Modularity	Article-No.	Order-No.	Pack/Qty
White				
1-gang	1	**N2171 BL**	2CLA217100N1101	20
1-gang	2	**N2271 BL**	2CLA227100N1101	20
2-gang	2+2	**N2272 BL**	2CLA227200N1101	10
3-gang	2+2+2	**N2273 BL**	2CLA227300N1101	5
4-gang	2+2+2+2	**N2274 BL**	2CLA227400N1101	5
5-gang	2+2+2+2+2	**N2275 BL**	2CLA227500N1101	5
Silver				
1-gang	1	**N2171 PL**	2CLA217100N1301	20
1-gang	2	**N2271 PL**	2CLA227100N1301	20
2-gang	2+2	**N2272 PL**	2CLA227200N1301	10
3-gang	2+2+2	**N2273 PL**	2CLA227300N1301	5
4-gang	2+2+2+2	**N2274 PL**	2CLA227400N1301	5
5-gang	2+2+2+2+2	**N2275 PL**	2CLA227500N1301	5
Anthracite				
1-gang	1	**N2171 AN**	2CLA217100N1801	20
1-gang	2	**N2271 AN**	2CLA227100N1801	20
2-gang	2+2	**N2272 AN**	2CLA227200N1801	10
3-gang	2+2+2	**N2273 AN**	2CLA227300N1801	5
4-gang	2+2+2+2	**N2274 AN**	2CLA227400N1801	5
5-gang	2+2+2+2+2	**N2275 AN**	2CLA227500N1801	5
Champagne				
1-gang	1	**N2171 CV**	2CLA217100N1901	20
1-gang	2	**N2271 CV**	2CLA227100N1901	20
2-gang	2+2	**N2272 CV**	2CLA227200N1901	10
3-gang	2+2+2	**N2273 CV**	2CLA227300N1901	5
4-gang	2+2+2+2	**N2274 CV**	2CLA227400N1901	5
5-gang	2+2+2+2+2	**N2275 CV**	2CLA227500N1901	5



Frames 1 to 4-gang - Noble - Glass
Material: 4mm thickness glass
Size (height x width):
- 1-gang: 90 x 90 mm.
- 2-gang: 90 x 161 mm.
- 3-gang: 90 x 232 mm.
- 4-gang: 90 x 303 mm.

Mounting grid code suitable for 60 mm screw distance boxes: N2271.9, N2271.9G, N2272.9 and N2273.9 (N2272.9 and N2273.9 only for horizontal installation).
Flush mounting boxes code: 1099, 1999 & 1999.2.
Surface mounting boxes code: 8591, 8592 & 8593.

Size	Modularity	Article-No.	Order-No.	Pack/Qty
White Glass				
1-gang	2	**N2271 CB**	2CLA227100N3001	1
2-gang	2+2	**N2272 CB**	2CLA227200N3001	1
3-gang	2+2+2	**N2273 CB**	2CLA227300N3001	1
4-gang	2+2+2+2	**N2274 CB**	2CLA227400N3001	1
Black Glass				
1-gang	2	**N2271 CN**	2CLA227100N3101	1
2-gang	2+2	**N2272 CN**	2CLA227200N3101	1
3-gang	2+2+2	**N2273 CN**	2CLA227300N3101	1
4-gang	2+2+2+2	**N2274 CN**	2CLA227400N3101	1
Pearl Glass				
1-gang	2	**N2271 CP**	2CLA227100N3501	1
2-gang	2+2	**N2272 CP**	2CLA227200N3501	1
3-gang	2+2+2	**N2273 CP**	2CLA227300N3501	1
4-gang	2+2+2+2	**N2274 CP**	2CLA227400N3501	1
Coffee Glass				
1-gang	2	**N2271 CC**	2CLA227100N3701	1
2-gang	2+2	**N2272 CC**	2CLA227200N3701	1
3-gang	2+2+2	**N2273 CC**	2CLA227300N3701	1
4-gang	2+2+2+2	**N2274 CC**	2CLA227400N3701	1
Graphite Glass				
1-gang	2	**N2271 CF**	2CLA227100N3801	1
2-gang	2+2	**N2272 CF**	2CLA227200N3801	1
3-gang	2+2+2	**N2273 CF**	2CLA227300N3801	1
4-gang	2+2+2+2	**N2274 CF**	2CLA227400N3801	1
Champagne Glass				
1-gang	2	**N2271 CH**	2CLA227100N3901	1
2-gang	2+2	**N2272 CH**	2CLA227200N3901	1
3-gang	2+2+2	**N2273 CH**	2CLA227300N3901	1
4-gang	2+2+2+2	**N2274 CH**	2CLA227400N3901	1

Zenit Float - Niessen logo

Frames for square and round European boxes

Size	Modularity	**Article-No.**	Order-No.	Pack/Qty
		**Frames 1 to 4-gang - Noble - Slate** Material: slate Size (height x width): - 1-gang: 90 x 90 mm. - 2-gang: 90 x 161 mm. - 3-gang: 90 x 232 mm. - 4-gang: 90 x 303 mm. Mounting grid code suitable for 60 mm screw distance boxes: N2271.9, N2271.9G, N2272.9 and N2273.9 (N2272.9 and N2273.9 only for horizontal installation). Flush mounting boxes code: 1099, 1999 & 1999.2. Surface mounting boxes code: 8591, 8592 & 8593.		
Slate				
1-gang	2	**N2271 PZ**	2CLA227100N2201	1
2-gang	2+2	**N2272 PZ**	2CLA227200N2201	1
3-gang	2+2+2	**N2273 PZ**	2CLA227300N2201	1
4-gang	2+2+2+2	**N2274 PZ**	2CLA227400N2201	1
		**Frames 1 to 4-gang - Noble - Stainless Steel** Material: stainless steel Size (height x width): - 1-gang: 90 x 90 mm. - 2-gang: 90 x 161 mm. - 3-gang: 90 x 232 mm. - 4-gang: 90 x 303 mm. Mounting grid code suitable for 60 mm screw distance boxes: N2271.9, N2271.9G, N2272.9 and N2273.9 (N2272.9 and N2273.9 only for horizontal installation). Flush mounting boxes code: 1099, 1999 & 1999.2. Surface mounting boxes code: 8591, 8592 & 8593.		
Stainless Steel				
1-gang	2	**N2271 OX**	2CLA227100N4001	1
2-gang	2+2	**N2272 OX**	2CLA227200N4001	1
3-gang	2+2+2	**N2273 OX**	2CLA227300N4001	1
4-gang	2+2+2+2	**N2274 OX**	2CLA227400N4001	1
		**Frames 1 to 4-gang - Noble - Wenge** Material: wood Size (height x width): - 1-gang: 90 x 90 mm. - 2-gang: 90 x 161 mm. - 3-gang: 90 x 232 mm. - 4-gang: 90 x 303 mm. Mounting grid code suitable for 60 mm screw distance boxes: N2271.9, N2271.9G, N2272.9 and N2273.9 (N2272.9 and N2273.9 only for horizontal installation). Flush mounting boxes code: 1099, 1999 & 1999.2. Surface mounting boxes code: 8591, 8592 & 8593.		
Wenge				
1-gang	2	**N2271 WG**	2CLA227100N2101	1
2-gang	2+2	**N2272 WG**	2CLA227200N2101	1
3-gang	2+2+2	**N2273 WG**	2CLA227300N2101	1
4-gang	2+2+2+2	**N2274 WG**	2CLA227400N2101	1

Zenit Float - Niessen logo

Frames for rectangular 3M (4"×2"), 4M and 7M boxes

Size	Modularity	Article-No.	Order-No.	Pack/Qty
		Frames - 3, 4 and 7 modules - Polycarbonate Material: polycarbonate Size (height x width): - 3M: 117 x 85 mm. - 4M: 139 x 85 mm. - 7M: 205 x 85 mm. Mounting plate codes: - For 3M box (83,5 mm screw distance): N2371.9 and N2473.9 (N2371.9 only for vertical installation with frames N2371.1 and N2372.1). - For 4M box (107 mm screw distance): N2474.9. - For 7M box (100 mm screw distance): N2777.9. Mounting box codes (flush / surface mounted): - 3M: 499.3 / N2993. - 4M: 1499.4 / N2994. - 7M: 1499.7 / -.		
White				
3M	1	**N2471 BL**	2CLA247100N1101	20
3M	2	**N2472 BL**	2CLA247200N1101	20
3M	1+1	**N2472.2 BL**	2CLA247220N1101	20
3M	3	**N2473 BL**	2CLA247300N1101	20
4M	4	**N2474 BL**	2CLA247400N1101	10
7M	7	**N2777 BL**	2CLA277700N1101	5
Silver				
3M	1	**N2471 PL**	2CLA247100N1301	20
3M	2	**N2472 PL**	2CLA247200N1301	20
3M	1+1	**N2472.2 PL**	2CLA247220N1301	20
3M	3	**N2473 PL**	2CLA247300N1301	20
4M	4	**N2474 PL**	2CLA247400N1301	10
7M	7	**N2777 PL**	2CLA277700N1301	5
Anthracite				
3M	1	**N2471 AN**	2CLA247100N1801	20
3M	2	**N2472 AN**	2CLA247200N1801	20
3M	1+1	**N2472.2 AN**	2CLA247220N1801	20
3M	3	**N2473 AN**	2CLA247300N1801	20
4M	4	**N2474 AN**	2CLA247400N1801	10
7M	7	**N2777 AN**	2CLA277700N1801	5
Champagne				
3M	1	**N2471 CV**	2CLA247100N1901	20
3M	2	**N2472 CV**	2CLA247200N1901	20
3M	1+1	**N2472.2 CV**	2CLA247220N1901	20
3M	3	**N2473 CV**	2CLA247300N1901	20
4M	4	**N2474 CV**	2CLA247400N1901	10
7M	7	**N2777 CV**	2CLA277700N1901	5

Size	Modularity	Article-No.	Order-No.	Pack/Qty
		**Frames - 3, 4 and 7 modules - Noble - Glass** Material: 4mm thickness glass Size (height x width): - 3M: 122 x 90 mm. - 4M: 142 x 90 mm. - 7M: 208 x 90 mm. Mounting plate codes: - For 3M box (83,5 mm screw distance): N2371.9 and N2473.9 (N2371.9 only for vertical installation with frames N2371.1 and N2372.1). - For 4M box (107 mm screw distance): N2474.9. - For 7M box (100 mm screw distance): N2777.9. Mounting box codes: -Mounting box codes (flush / surface mounted): - 3M: 499.3 / N2993. - 4M: 1499.4 / N2994. - 7M: 1499.7 / -. Codes N2474 CP/CC/CF/CH and N2777 XX without logo.		
White Glass				
3M	2	**N2472 CB**	2CLA247200N3001	1
3M	3	**N2473 CB**	2CLA247300N3001	1
4M	4	**N2474 CB**	2CLA247400N3001	1
7M	7	**N2777 CB**	2CLA277700N3002	1
Black Glass				
3M	2	**N2472 CN**	2CLA247200N3101	1
3M	3	**N2473 CN**	2CLA247300N3101	1
4M	4	**N2474 CN**	2CLA247400N3101	1
7M	7	**N2777 CN**	2CLA277700N3102	1
Pearl Glass				
3M	3	**N2473 CP**	2CLA247300N3501	1
4M	4	**N2474 CP**	2CLA247400N3502	1
7M	7	**N2777 CP**	2CLA277700N3502	1
Coffee Glass				
3M	3	**N2473 CC**	2CLA247300N3701	1
4M	4	**N2474 CC**	2CLA247400N3702	1
7M	7	**N2777 CC**	2CLA277700N3702	1
Graphite Glass				
3M	3	**N2473 CF**	2CLA247300N3801	1
4M	4	**N2474 CF**	2CLA247400N3802	1
7M	7	**N2777 CF**	2CLA277700N3802	1
Champagne Glass				
3M	3	**N2473 CH**	2CLA247300N3901	1
4M	4	**N2474 CH**	2CLA247400N3902	1
7M	7	**N2777 CH**	2CLA277700N3902	1

Zenit Float - Niessen logo

Frames for rectangular 3M (4"×2"), 4M and 7M boxes

Size	Modularity	**Article-No.**	Order-No.	Pack/Qty
		**Frames - 3, 4 and 7 modules - Noble - Slate** Material: 4mm thickness slate Size (height x width): - 3M: 122 x 90 mm. - 4M: 142 x 90 mm. - 7M: 208 x 90 mm. Mounting plate codes: - For 3M box (83,5 mm screw distance): N2371.9 and N2473.9 (N2371.9 only for vertical installation with frames N2371.1 and N2372.1). - For 4M box (107 mm screw distance): N2474.9. - For 7M box (100 mm screw distance): N2777.9. Mounting box codes (flush / surface mounted): - 3M: 499.3 / N2993. - 4M: 1499.4 / N2994. - 7M: 1499.7 / -. Code N2777 PZ without logo.		
Slate				
3M	2	**N2472 PZ**	2CLA247200N2201	1
3M	3	**N2473 PZ**	2CLA247300N2201	1
4M	4	**N2474 PZ**	2CLA247400N2201	1
7M	7	**N2777 PZ**	2CLA277700N2202	1
		**Frames - 3, 4 and 7 modules - Noble - Stainless Steel** Material: 4mm thickness stainless steel Size (height x width): - 3M: 122 x 90 mm. - 4M: 142 x 90 mm. - 7M: 208 x 90 mm. Mounting plate codes: - For 3M box (83,5 mm screw distance): N2371.9 (only frames N2371.1 and N2372.1) & N2473.9. - For 4M box (107 mm screw distance): N2474.9. - For 7M box (100 mm screw distance): N2777.9. Mounting box codes (flush / surface mounted): - 3M: 499.3 / N2993. - 4M: 1499.4 / N2994. - 7M: 1499.7 / -. Code N2777 OX without logo.		
Stainless Steel				
3M	2	**N2472 OX**	2CLA247200N4001	1
3M	3	**N2473 OX**	2CLA247300N4001	1
4M	4	**N2474 OX**	2CLA247400N4001	1
7M	7	**N2777 OX**	2CLA277700N4002	1
		**Frames - 3, 4 and 7 modules - Noble - Wenge** Material: 4mm thickness wood Size (height x width): - 3M: 122 x 90 mm. - 4M: 142 x 90 mm. - 7M: 208 x 90 mm. Mounting plate codes: - For 3M box (83,5 mm screw distance): N2371.9 (only frames N2371.1 and N2372.1) & N2473.9. - For 4M box (107 mm screw distance): N2474.9. - For 7M box (100 mm screw distance): N2777.9. Mounting box codes (flush / surface mounted): - 3M: 499.3 / N2993. - 4M: 1499.4 / N2994. - 7M: 1499.7 / -. Code N2777 WG without logo.		
Wenge				
3M	2	**N2472 WG**	2CLA247200N2101	1
3M	3	**N2473 WG**	2CLA247300N2101	1
4M	4	**N2474 WG**	2CLA247400N2101	1
7M	7	**N2777 WG**	2CLA277700N2102	1

Zenit Float - ABB logo

Frames for European square and round boxes

Frames 1 to 5-gang - Polycarbonate
Material: polycarbonate
Size (height x width):
1-gang: 85 x 85 mm.
- 2-gang: 85 x 156 mm.
- 3-gang: 85 x 227 mm.
- 4-gang: 85 x 298 mm.
- 5-gang: 85 x 369 mm.
Mounting grid code suitable for 60 mm screw distance boxes: N2271.9, N2271.9G, N2272.9 and N2273.9 (N2272.9 and N2273.9 only for horizontal installation).
Flush mounting boxes code: 1099, 1999 & 1999.2.
Surface mounting boxes code: 8591, 8592 & 8593.

Size	Modularity	Article-No.	Order-No.	Pack/Qty
White				
1-gang	1	**N2171 BL**	2CLA217100N1102	20
1-gang	2	**N2271 BL**	2CLA227100N1102	20
2-gang	2+2	**N2272 BL**	2CLA227200N1102	10
3-gang	2+2+2	**N2273 BL**	2CLA227300N1102	5
4-gang	2+2+2+2	**N2274 BL**	2CLA227400N1102	5
5-gang	2+2+2+2+2	**N2275 BL**	2CLA227500N1102	5
Silver				
1-gang	1	**N2171 PL**	2CLA217100N1302	20
1-gang	2	**N2271 PL**	2CLA227100N1302	20
2-gang	2+2	**N2272 PL**	2CLA227200N1302	10
3-gang	2+2+2	**N2273 PL**	2CLA227300N1302	5
4-gang	2+2+2+2	**N2274 PL**	2CLA227400N1302	5
5-gang	2+2+2+2+2	**N2275 PL**	2CLA227500N1302	5
Anthracite				
1-gang	1	**N2171 AN**	2CLA217100N1802	20
1-gang	2	**N2271 AN**	2CLA227100N1802	20
2-gang	2+2	**N2272 AN**	2CLA227200N1802	10
3-gang	2+2+2	**N2273 AN**	2CLA227300N1802	5
4-gang	2+2+2+2	**N2274 AN**	2CLA227400N1802	5
5-gang	2+2+2+2+2	**N2275 AN**	2CLA227500N1802	5
Champagne				
1-gang	1	**N2171 CV**	2CLA217100N1902	20
1-gang	2	**N2271 CV**	2CLA227100N1902	20
2-gang	2+2	**N2272 CV**	2CLA227200N1902	10
3-gang	2+2+2	**N2273 CV**	2CLA227300N1902	5
4-gang	2+2+2+2	**N2274 CV**	2CLA227400N1902	5
5-gang	2+2+2+2+2	**N2275 CV**	2CLA227500N1902	5



Frames 1 to 4-gang - Noble - Glass
Material: 4mm thickness glass
Size (height x width):
- 1-gang: 90 x 90 mm.
- 2-gang: 90 x 161 mm.
- 3-gang: 90 x 232 mm.
- 4-gang: 90 x 303 mm.
Mounting grid code suitable for 60 mm screw distance boxes: N2271.9, N2271.9G, N2272.9 and N2273.9 (N2272.9 and N2273.9 only for horizontal installation).
Flush mounting boxes code: 1099, 1999 & 1999.2.
Surface mounting boxes code: 8591, 8592 & 8593.

Size	Modularity	Article-No.	Order-No.	Pack/Qty
White Glass				
1-gang	2	**N2271 CB**	2CLA227100N3002	1
2-gang	2+2	**N2272 CB**	2CLA227200N3002	1
3-gang	2+2+2	**N2273 CB**	2CLA227300N3002	1
4-gang	2+2+2+2	**N2274 CB**	2CLA227400N3002	1
Black Glass				
1-gang	2	**N2271 CN**	2CLA227100N3102	1
2-gang	2+2	**N2272 CN**	2CLA227200N3102	1
3-gang	2+2+2	**N2273 CN**	2CLA227300N3102	1
4-gang	2+2+2+2	**N2274 CN**	2CLA227400N3102	1
Pearl Glass				
1-gang	2	**N2271 CP**	2CLA227100N3502	1
2-gang	2+2	**N2272 CP**	2CLA227200N3502	1
3-gang	2+2+2	**N2273 CP**	2CLA227300N3502	1
4-gang	2+2+2+2	**N2274 CP**	2CLA227400N3502	1
Coffee Glass				
1-gang	2	**N2271 CC**	2CLA227100N3702	1
2-gang	2+2	**N2272 CC**	2CLA227200N3702	1
3-gang	2+2+2	**N2273 CC**	2CLA227300N3702	1
4-gang	2+2+2+2	**N2274 CC**	2CLA227400N3702	1
Graphite Glass				
1-gang	2	**N2271 CF**	2CLA227100N3802	1
2-gang	2+2	**N2272 CF**	2CLA227200N3802	1
3-gang	2+2+2	**N2273 CF**	2CLA227300N3802	1
4-gang	2+2+2+2	**N2274 CF**	2CLA227400N3802	1
Champagne Glass				
1-gang	2	**N2271 CH**	2CLA227100N3902	1
2-gang	2+2	**N2272 CH**	2CLA227200N3902	1
3-gang	2+2+2	**N2273 CH**	2CLA227300N3902	1
4-gang	2+2+2+2	**N2274 CH**	2CLA227400N3902	1

Zenit Float - ABB logo

Frames for European square and round boxes

Size	Modularity	**Article-No.**	Order-No.	Pack/Qty
		**Frames 1 to 4-gang - Noble - Slate** Material: 4mm thickness slate Size (height x width): - 1-gang: 90 x 90 mm. - 2-gang: 90 x 161 mm. - 3-gang: 90 x 232 mm. - 4-gang: 90 x 303 mm. Mounting grid code suitable for 60 mm. screw distance boxes: N2271.9, N2271.9G, N2272.9 and N2273.9 (N2272.9 and N2273.9 only for horizontal installation). Flush mounting boxes code: 1099, 1999 & 1999.2. Surface mounting boxes code: 8591, 8592 & 8593.		
Slate				
1-gang	2	**N2271 PZ**	2CLA227100N2202	1
2-gang	2+2	**N2272 PZ**	2CLA227200N2202	1
3-gang	2+2+2	**N2273 PZ**	2CLA227300N2202	1
4-gang	2+2+2+2	**N2274 PZ**	2CLA227400N2202	1
		**Frames 1 to 4-gang - Noble - Stainless Steel** Material: 4mm thickness stainless steel Size (height x width): - 1-gang: 90 x 90 mm. - 2-gang: 90 x 161 mm. - 3-gang: 90 x 232 mm. - 4-gang: 90 x 303 mm. Mounting grid code suitable for 60 mm. screw distance boxes: N2271.9, N2271.9G, N2272.9 and N2273.9 (N2272.9 and N2273.9 only for horizontal installation). Flush mounting boxes code: 1099, 1999 & 1999.2. Surface mounting boxes code: 8591, 8592 & 8593.		
Stainless Steel				
1-gang	2	**N2271 OX**	2CLA227100N4002	1
2-gang	2+2	**N2272 OX**	2CLA227200N4002	1
3-gang	2+2+2	**N2273 OX**	2CLA227300N4002	1
4-gang	2+2+2+2	**N2274 OX**	2CLA227400N4002	1
		**Frames 1 to 4-gang - Noble - Wenge** Material: 4mm thickness wood Size (height x width): - 1-gang: 90 x 90 mm. - 2-gang: 90 x 161 mm. - 3-gang: 90 x 232 mm. - 4-gang: 90 x 303 mm. Mounting grid code suitable for 60 mm. screw distance boxes: N2271.9, N2271.9G, N2272.9 and N2273.9 (N2272.9 and N2273.9 only for horizontal installation). Flush mounting boxes code: 1099, 1999 & 1999.2. Surface mounting boxes code: 8591, 8592 & 8593.		
Wenge				
1-gang	2	**N2271 WG**	2CLA227100N2102	1
2-gang	2+2	**N2272 WG**	2CLA227200N2102	1
3-gang	2+2+2	**N2273 WG**	2CLA227300N2102	1
4-gang	2+2+2+2	**N2274 WG**	2CLA227400N2102	1

Zenit Float - ABB logo

Frames for rectangular 3M (4"×2"), 4M and 7M boxes

Size	Modularity	Article-No.	Order-No.	Pack/Qty
		Frames - 3 modules - Polycarbonate Material: polycarbonate Size (height x width): 122 x 90 mm. Mounting plate codes (83,5 mm screw distance boxes - 4" x 2"): N2371.9 and N2473.9 (N2371.9 only for vertical installation of the devices with frames N2371.1 and N2372.1). Mounting box codes (flush / surface mounting): 499.3 / N2993.		
White				
3M	Blank	**N2370.1 BL**	2CLA237010N1102	20
3M	1	**N2371.1 BL**	2CLA237110N1102	20
3M	1 Vert.	**N2371.1V BL**	2CLA237190N1102	20
3M	2	**N2372.1 BL**	2CLA237210N1102	20
3M	1+1	**N2372.2 BL**	2CLA237220N1102	20
3M	3	**N2373.1 BL**	2CLA237310N1102	20
Silver				
3M	Blank	**N2370.1 PL**	2CLA237010N1302	20
3M	1	**N2371.1 PL**	2CLA237110N1302	20
3M	1 Vert.	**N2371.1V PL**	2CLA237190N1302	20
3M	2	**N2372.1 PL**	2CLA237210N1302	20
3M	1+1	**N2372.2 PL**	2CLA237220N1302	20
3M	3	**N2373.1 PL**	2CLA237310N1302	20
Anthracite				
3M	Blank	**N2370.1 AN**	2CLA237010N1802	20
3M	1	**N2371.1 AN**	2CLA237110N1802	20
3M	1 Vert.	**N2371.1V AN**	2CLA237190N1802	20
3M	2	**N2372.1 AN**	2CLA237210N1802	20
3M	1+1	**N2372.2 AN**	2CLA237220N1802	20
3M	3	**N2373.1 AN**	2CLA237310N1802	20
Champagne				
3M	Blank	**N2370.1 CV**	2CLA237010N1902	20
3M	1	**N2371.1 CV**	2CLA237110N1902	20
3M	1 Vert.	**N2371.1V CV**	2CLA237190N1902	20
3M	2	**N2372.1 CV**	2CLA237210N1902	20
3M	1+1	**N2372.2 CV**	2CLA237220N1902	20
3M	3	**N2373.1 CV**	2CLA237310N1902	20

Size	Modularity	Article-No.	Order-No.	Pack/Qty	
		Frames - 3, 4 and 7 modules - Polycarbonate Material: polycarbonate Size (width x height): - 3M: 117 x 85 mm. - 4M: 139 x 85 mm. - 7M: 205 x 85 mm. Mounting plate codes: - For 3M box (83,5 mm screw distance): N2473.9. - For 4M box (107 mm screw distance): N2474.9. - For 7M box (100 mm screw distance): N2777.9. Mounting box codes (flush / surface mounting): - 3M: 499.3 / N2993. - 4M: 1499.4 / N2994. - 7M: 1499.7 / -.			
White					
3M	1	**N2371 BL**	2CLA237100N1102	20	NEW
3M	2	**N2372 BL**	2CLA237200N1102	20	NEW
3M	1+1	**N2372.3 BL**	2CLA237230N1102	20	NEW
3M	3	**N2373 BL**	2CLA237300N1102	20	NEW
4M	4	**N2374.1 BL**	2CLA237410N1102	10	
7M	7	**N2777.1 BL**	2CLA277710N1102	5	
Silver					
3M	1	**N2371 PL**	2CLA237100N1302	20	NEW
3M	2	**N2372 PL**	2CLA237200N1302	20	NEW
3M	1+1	**N2372.3 PL**	2CLA237230N1302	20	NEW
3M	3	**N2373 PL**	2CLA237300N1302	20	NEW
4M	4	**N2374.1 PL**	2CLA237410N1302	10	
7M	7	**N2777.1 PL**	2CLA277710N1302	5	
Anthracite					
3M	1	**N2371 AN**	2CLA237100N1802	20	NEW
3M	2	**N2372 AN**	2CLA237200N1802	20	NEW
3M	1+1	**N2372.3 AN**	2CLA237230N1802	20	NEW
3M	3	**N2373 AN**	2CLA237300N1802	20	NEW
4M	4	**N2374.1 AN**	2CLA237410N1802	10	
7M	7	**N2777.1 AN**	2CLA277710N1802	5	
Champagne					
3M	1	**N2371 CV**	2CLA237100N1902	20	NEW
3M	2	**N2372 CV**	2CLA237200N1902	20	NEW
3M	1+1	**N2372.3 CV**	2CLA237230N1902	20	NEW
3M	3	**N2373 CV**	2CLA237300N1902	20	NEW
4M	4	**N2374.1 CV**	2CLA237410N1902	10	
7M	7	**N2777.1 CV**	2CLA277710N1902	5	

Zenit Float - ABB logo

Frames for rectangular 3M (4"×2"), 4M and 7M boxes

Size	Modularity	Article-No.	Order-No.	Pack/Qty
		**Frames - 3, 4 and 7 modules - Noble - Glass** Material: 4mm thickness glass Size (width x height): - 3M: 122 x 90 mm. - 4M: 142 x 90 mm. - 7M: 208 x 90 mm. Mounting plate codes: - For 3M box (83,5 mm screw distance): N2371.9 and N2473.9 (N2371.9 only for vertical installation with frames N2371.1 and N2372.1). - For 4M box (107 mm screw distance): N2474.9. - For 7M box (100 mm screw distance): N2777.9. Mounting box codes: - 3M flush mounting: 499.3 / Surface mounting N2993. - 4M flush mounting: 1499.4 / Surface mounting N2994. - 7M flush mounting: 1499.7. Codes N2474 CP/CC/CF/CH and N2777 XX without logo. Mounting box codes (flush / surface mounting): - 3M: 499.3 / N2993. - 4M: 1499.4 / N2994. - 7M: 1499.7 / -.		
White Glass				
3M	2	**N2372.1 CB**	2CLA237200N3002	1
3M	3	**N2373.1 CB**	2CLA237300N3002	1
4M	4	**N2374.1 CB**	2CLA237400N3002	1
7M	7	**N2777 CB**	2CLA277700N3002	1
Black Glass				
3M	2	**N2372.1 CN**	2CLA237200N3102	1
3M	3	**N2373.1 CN**	2CLA237300N3102	1
4M	4	**N2374.1 CN**	2CLA237400N3102	1
7M	7	**N2777 CN**	2CLA277700N3102	1
Pearl Glass				
3M	3	**N2373.1 CP**	2CLA237300N3502	1
4M	4	**N2474 CP**	2CLA247400N3502	1
7M	7	**N2777 CP**	2CLA277700N3502	1
Coffee Glass				
3M	3	**N2373.1 CC**	2CLA237300N3702	1
4M	4	**N2474 CC**	2CLA247400N3702	1
7M	7	**N2777 CC**	2CLA277700N3702	1
Graphite Glass				
3M	3	**N2373.1 CF**	2CLA237300N3802	1
4M	4	**N2474 CF**	2CLA247400N3802	1
7M	7	**N2777 CF**	2CLA277700N3802	1
Champagne Glass				
3M	3	**N2373.1 CH**	2CLA237300N3902	1
4M	4	**N2474 CH**	2CLA247400N3902	1
7M	7	**N2777 CH**	2CLA277700N3902	1

Size	Modularity	Article-No.	Order-No.	Pack/Qty
		**Frames - 3, 4 and 7 modules - Noble - Slate** Material: 4mm thickness slate Size (width x height): - 3M: 122 x 90 mm. - 4M: 142 x 90 mm. - 7M: 208 x 90 mm. Mounting plate codes: - For 3M box (83,5 mm screw distance): N2371.9 and N2473.9 (N2371.9 only for vertical installation with frames N2371.1 and N2372.1). - For 4M box (107 mm screw distance): N2474.9. - For 7M box (100 mm screw distance): N2777.9. Mounting box codes (flush / surface mounted): - 3M: 499.3 / N2993. - 4M: 1499.4 / N2994. - 7M: 1499.7 / -.		
Slate				
3M	2	**N2372.1 PZ**	2CLA237200N2202	1
3M	3	**N2373.1 PZ**	2CLA237300N2202	1
4M	4	**N2374.1 PZ**	2CLA237400N2202	1
7M	7	**N2777 PZ**	2CLA277700N2202	1
		**Frames - 3, 4 and 7 modules - Noble - Stainless Steel** Material: 4mm thickness stainless steel Size (width x height): - 3M: 122 x 90 mm. - 4M: 142 x 90 mm. - 7M: 208 x 90 mm. Mounting plate codes: - For 3M box (83,5 mm screw distance): N2371.9 (only frames N2371.1 and N2372.1) & N2473.9. - For 4M box (107 mm screw distance): N2474.9. - For 7M box (100 mm screw distance): N2777.9. Mounting box codes (flush / surface mounted): - 3M: 499.3 / N2993. - 4M: 1499.4 / N2994. - 7M: 1499.7 / -.		
Stainless Steel				
3M	2	**N2372.1 OX**	2CLA237200N4002	1
3M	3	**N2373.1 OX**	2CLA237300N4002	1
4M	4	**N2374.1 OX**	2CLA237400N4002	1
7M	7	**N2777 OX**	2CLA277700N4002	1
		**Frames - 3, 4 and 7 modules - Noble - Wenge** Material: 4mm thickness wood Size (width x height): - 3M: 122 x 90 mm. - 4M: 142 x 90 mm. - 7M 208 x 90 mm. Mounting plate codes: - For 3M box (83,5 mm screw distance): N2371.9 and N2473.9 (N2371.9 only for vertical installation with frames N2371.1 and N2372.1). - For 4M box (107 mm screw distance): N2474.9. - For 7M box (100 mm screw distance): N2777.9. Mounting box codes (flush / surface mounted): - 3M: 499.3 / N2993. - 4M: 1499.4 / N2994. - 7M: 1499.7 / -.		
Wenge				
3M	2	**N2372.1 WG**	2CLA237210N2102	1
3M	3	**N2373.1 WG**	2CLA237310N2102	1
4M	4	**N2374.1 WG**	2CLA237410N2102	1
7M	7	**N2777 WG**	2CLA277700N2102	1

Zenit Float - ABB logo

Frames for 4"×4" boxes

Frames - 3+3 modules - Polycarbonate
Material: polycarbonate
Size (height x width): 122 x 138 mm.
Mounting plate code suitable for 4” x 4” boxes: N2673.9.

Size	Modularity	Article-No.	Order-No.	Pack/Qty
White				
4”x4”	Blank	**N2670 BL**	2CLA267000N1102	5
4”x4”	1+1	**N2671.1 BL**	2CLA267110N1102	5
4”x4”	2+2	**N2672.2 BL**	2CLA267220N1102	5
4”x4”	1+1+1+1	**N2672.4 BL**	2CLA267240N1102	5
4”x4”	3+3	**N2673.6 BL**	2CLA267360N1102	5
Silver				
4”x4”	Blank	**N2670 PL**	2CLA267000N1302	5
4”x4”	1+1	**N2671.1 PL**	2CLA267110N1302	5
4”x4”	2+2	**N2672.2 PL**	2CLA267220N1302	5
4”x4”	1+1+1+1	**N2672.4 PL**	2CLA267240N1302	5
4”x4”	3+3	**N2673.6 PL**	2CLA267360N1302	5
Anthracite				
4”x4”	Blank	**N2670 AN**	2CLA267000N1802	5
4”x4”	1+1	**N2671.1 AN**	2CLA267110N1802	5
4”x4”	2+2	**N2672.2 AN**	2CLA267220N1802	5
4”x4”	1+1+1+1	**N2672.4 AN**	2CLA267240N1802	5
4”x4”	3+3	**N2673.6 AN**	2CLA267360N1802	5
Champagne				
4”x4”	Blank	**N2670 CV**	2CLA267000N1902	5
4”x4”	1+1	**N2671.1 CV**	2CLA267110N1902	5
4”x4”	2+2	**N2672.2 CV**	2CLA267220N1902	5
4”x4”	1+1+1+1	**N2672.4 CV**	2CLA267240N1902	5
4”x4”	3+3	**N2673.6 CV**	2CLA267360N1902	5



Frames - 3+3 modules - Noble - Glass
Material: 4mm thickness glass
Size (height x width): 122 x 138 mm.
Mounting plate code suitable for 4” x 4” boxes: N2673.9.

Size	Modularity	Article-No.	Order-No.	Pack/Qty
White Glass				
4”x4”	3+3	**N2673.6 CB**	2CLA267360N3002	2
Black Glass				
4”x4”	3+3	**N2673.6 CN**	2CLA267360N3102	2
Pearl Glass				
4”x4”	3+3	**N2673.6 CP**	2CLA267360N3502	2
Coffee Glass				
4”x4”	3+3	**N2673.6 CC**	2CLA267360N3702	2
Graphite Glass				
4”x4”	3+3	**N2673.6 CF**	2CLA267360N3802	2
Champagne Glass				
4”x4”	3+3	**N2673.6 CH**	2CLA267360N3902	2



Frames - 3+3 modules - Noble - Slate
Material: 4mm thickness slate
Size (height x width): 122 x 138 mm.
Mounting plate code suitable for 4” x 4” boxes: N2673.9.

Size	Modularity	Article-No.	Order-No.	Pack/Qty
Slate				
4”x4”	3+3	**N2673.6 PZ**	2CLA267360N2202	2



Frames - 3+3 modules - Noble - Stainless Steel
Material: 4mm thickness stainless steel
Size (height x width): 122 x 138 mm.
Mounting plate code suitable for 4” x 4” boxes: N2673.9.

Size	Modularity	Article-No.	Order-No.	Pack/Qty
Stainless Steel				
4”x4”	3+3	**N2673.6 OX**	2CLA267360N4002	2



Frames - 3+3 modules - Noble - Wenge
Material: 4mm thickness wood
Size (height x width): 122 x 138 mm.
Mounting plate code suitable for 4” x 4” boxes: N2673.9.

Size	Modularity	Article-No.	Order-No.	Pack/Qty
Wenge				
4”x4”	3+3	**N2673.6 WG**	2CLA267360N2102	5

Zenit Float - ABB logo

Frames for BS 3"x3" boxes

Size	Modularity	**Article-No.**	Order-No.	Pack/Qty
		Frames - 3 modules - polycarbonate Material: polycarbonate. Size (height x width): 90 x 90 mm. Mounting plate code suitable for 60,3 mm screw distance BS 3”x3” boxes: N2573.9. Flush mounting boxes code: 1099.		
White				
3”x3”	3	**N2573 BL**	2CLA257300N1102	20
Silver				
3”x3”	3	**N2573 PL**	2CLA257300N1302	20
Anthracite				
3”x3”	3	**N2573 AN**	2CLA257300N1802	20
Champagne				
3”x3”	3	**N2573 CV**	2CLA257300N1902	20

Zenit Solid

Frames for European square and round boxes

01

7,5 mm height. Compact and firm profile. Solid effect with own personality.

02

03

04

05

07

01 Side view, 7,5 × 85 mm

1 to 4-gang cover frame suitable for horizontal and vertical installation
02 Frame 1-gang, 1 module
03 Frame 1-gang, 2 modules
04 Frame 2-gang, 2 + 2 modules
05 Frame 3-gang, 2 + 2 + 2 modules horizontal
06 Frame 3-gang, 2 + 2 + 2 modules vertical
07 Frame 4-gang, 2 + 2 + 2 + 2 modules

1 to 3 module cover frames for 3 module or 4"×2" box vertical installation habits (American)
08 Frame 1 module for 3 modules box
09 Frame 1 + 1 modules for 3 modules box
10 Frame 2 modules for 3 modules box
11 Frame 3 modules in 3 modules box

1 to 3 module cover frames for 3 module box horizontal installation habit (Italian)
12 Frame 1 module for 3 modules box
13 Frame 1 + 1 modules for 3 modules box
14 Frame 2 modules for 3 modules box
15 Frame 3 modules in 3 modules box

06

Frames for rectangular 3M/4"×2" boxes

08

09

10

11

12

13

14

15

Zenit Solid

Frames for European square and round boxes

BL - White



PL - Silver



AN - Anthracite



CV - Champagne



Frames for rectangular 3M/4"×2" boxes

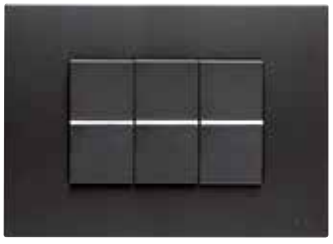
BL - White



PL - Silver



AN - Anthracite



CV - Champagne



Logo placement in horizontal and vertical installations

Niessen Logo - Horizontal

Niessen Logo - Vertical

ABB Logo - Horizontal

ABB Logo - Vertical

Zenit Solid - Niessen logo

Frames for European boxes

Size	Modularity	Article-No.	Order-No.	Pack/Qty
		Frames 1 to 5-gang - Polycarbonate Material: polycarbonate Size (height x width): - 1-gang: 85 x 85 mm. - 2-gang: 85 x 156 mm. - 3-gang: 85 x 227 mm. - 4-gang: 85 x 298 mm. Mounting grid code suitable for 60 mm screw distance boxes: N2271.9, N2271.9G, N2272.9 and N2273.9 (N2272.9 and N2273.9 only for horizontal installation). Flush mounting boxes code: 1099, 1999 & 1999.2. Surface mounting boxes code: 8591, 8592 & 8593.		
White				
1-gang	1	**N2171.1 BL**	2CLA217110N1101	20
1-gang	2	**N2271.1 BL**	2CLA227110N1101	20
2-gang	2+2	**N2272.1 BL**	2CLA227210N1101	10
3-gang	2+2+2	**N2273.1 BL**	2CLA227310N1101	5
4-gang	2+2+2+2	**N2274.1 BL**	2CLA227410N1101	5
Silver				
1-gang	1	**N2171.1 PL**	2CLA217110N1301	20
1-gang	2	**N2271.1 PL**	2CLA227110N1301	20
2-gang	2+2	**N2272.1 PL**	2CLA227210N1301	10
3-gang	2+2+2	**N2273.1 PL**	2CLA227310N1301	5
4-gang	2+2+2+2	**N2274.1 PL**	2CLA227410N1301	5
Anthracite				
1-gang	1	**N2171.1 AN**	2CLA217110N1801	20
1-gang	2	**N2271.1 AN**	2CLA227110N1801	20
2-gang	2+2	**N2272.1 AN**	2CLA227210N1801	10
3-gang	2+2+2	**N2273.1 AN**	2CLA227310N1801	5
4-gang	2+2+2+2	**N2274.1 AN**	2CLA227410N1801	5
Champagne				
1-gang	1	**N2171.1 CV**	2CLA217110N1901	20
1-gang	2	**N2271.1 CV**	2CLA227110N1901	20
2-gang	2+2	**N2272.1 CV**	2CLA227210N1901	10
3-gang	2+2+2	**N2273.1 CV**	2CLA227310N1901	5
4-gang	2+2+2+2	**N2274.1 CV**	2CLA227410N1901	5

Frames for rectangular 3M (4"×2") boxes

Size	Modularity	Article-No.	Order-No.	Pack/Qty
		Frames - 3 modules - Polycarbonate Material: polycarbonate Size (height x width): 117 x 85 mm. Mounting plate code for 3M box (83,5 mm screw distance): N2371.9 and N2473.9 (N2371.9 only for vertical installation with frames N2371.1 and N2372.1). Mounting box codes: - Flush mounting: 499.3 - Surface mounting N2993.		
White				
3M	1	**N2471.1 BL**	2CLA247110N1101	20
3M	2	**N2472.1 BL**	2CLA247210N1101	20
3M	1+1	**N2472.3 BL**	2CLA247230N1101	20
3M	3	**N2473.1 BL**	2CLA247310N1101	20
Silver				
3M	1	**N2471.1 PL**	2CLA247110N1301	20
3M	2	**N2472.1 PL**	2CLA2472010N1301	20
3M	1+1	**N2472.3 PL**	2CLA247230N1301	20
3M	3	**N2473.1 PL**	2CLA247310N1301	20
Anthracite				
3M	1	**N2471.1 AN**	2CLA247110N1801	20
3M	2	**N2472.1 AN**	2CLA247210N1801	20
3M	1+1	**N2472.3 AN**	2CLA247230N1801	20
3M	3	**N2473.1 AN**	2CLA247310N1801	20
Champagne				
3M	1	**N2471.1 CV**	2CLA247110N1901	20
3M	2	**N2472.1 CV**	2CLA247210N1901	20
3M	1+1	**N2472.3 CV**	2CLA247230N1901	20
3M	3	**N2473.1 CV**	2CLA247310N1901	20

Zenit Solid - ABB logo

Frames for European boxes

Size	Modularity	**Article-No.**	Order-No.	Pack/Qty
		Frames 1 to 5-gang - Polycarbonate Material: polycarbonate Size (height x width): - 1-gang: 85 x 85 mm. - 2-gang: 85 x 156 mm. - 3-gang: 85 x 227 mm. - 4-gang: 85 x 298 mm. Mounting grid code suitable for 60 mm screw distance boxes: N2271.9, N2271.9G, N2272.9 and N2273.9 (N2272.9 and N2273.9 only for horizontal installation). Flush mounting boxes code: 1099, 1999 & 1999.2. Surface mounting boxes code: 8591, 8592 & 8593.		
White				
1-gang	1	**N2171.1 BL**	2CLA217110N1102	20
1-gang	2	**N2271.1 BL**	2CLA227110N1102	20
2-gang	2+2	**N2272.1 BL**	2CLA227210N1102	10
3-gang	2+2+2	**N2273.1 BL**	2CLA227310N1102	5
4-gang	2+2+2+2	**N2274.1 BL**	2CLA227410N1102	5
Silver				
1-gang	1	**N2171.1 PL**	2CLA217110N1302	20
1-gang	2	**N2271.1 PL**	2CLA227110N1302	20
2-gang	2+2	**N2272.1 PL**	2CLA227210N1302	10
3-gang	2+2+2	**N2273.1 PL**	2CLA227310N1302	5
4-gang	2+2+2+2	**N2274.1 PL**	2CLA227410N1302	5
Anthracite				
1-gang	1	**N2171.1 AN**	2CLA217110N1802	20
1-gang	2	**N2271.1 AN**	2CLA227110N1802	20
2-gang	2+2	**N2272.1 AN**	2CLA227210N1802	10
3-gang	2+2+2	**N2273.1 AN**	2CLA227310N1802	5
4-gang	2+2+2+2	**N2274.1 AN**	2CLA227410N1802	5
Champagne				
1-gang	1	**N2171.1 CV**	2CLA217110N1902	20
1-gang	2	**N2271.1 CV**	2CLA227110N1902	20
2-gang	2+2	**N2272.1 CV**	2CLA227210N1902	10
3-gang	2+2+2	**N2273.1 CV**	2CLA227310N1902	5
4-gang	2+2+2+2	**N2274.1 CV**	2CLA227410N1902	5

Zenit Soul
Frames

01



4,1 mm height.
The essential frame with a ultra-light profile, being one of the slimmest frames in the market.

02

03

04

05

01 Side view, 4,1 x 85 mm
1-gang cover frame suitable for European square and round boxes:

02 Frame 1-gang, 2 modules

3 to 7 module cover frames for 3, 4 and 7 module boxes horizontal installation habit (Italian)
03 Frame 3 modules for 3 modules box
04 Frame 4 modules for 4 modules box
05 Frame 7 modules for 7 modules box

3 module cover frames for 3 module or 4"x2" box vertical installation habits (American)
06 Frame 3 modules in 3 modules box

06

Zenit Soul

Frames for rectangular boxes

BL - White



CB - White Glass



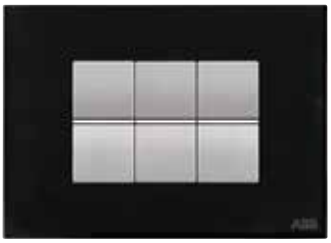
DN - Dune

NEW

PL - Silver



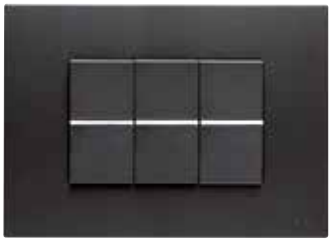
CN - Black Glass



OX - Subtle Stainless Steel

NEW

AN - Anthracite



NS - Silk Black

NEW

MO - Mocha

NEW

CV - Champagne



OM- Matt Gold

NEW

TP - Taupe

NEW

CM - Commodore

NEW

Zenit Soul - ABB logo

Frames

Size	Modularity	Article-No.	Order-No.	Pack/Qty
		Frames - 2, 3, 4 and 7 modules - Polycarbonate Material: polycarbonate Size (width x height): - 2M: 85 x 85 mm. - 3M: 117 x 85 mm. - 4M: 139 x 85 mm. - 7M: 205 x 85 mm. Mounting plate codes: - For 2M box (60 mm screw distance): Z2271.91. - For 3M box (83,5 mm screw distance): Z2373.91. - For 4M box (107 mm screw distance): Z2474.91. - For 7M box (100 mm screw distance): Z2777.91. Mounting box codes (flush / surface mounting): - 2M: 1099, 1999 / 8591. - 3M: 499.3 / N2993. - 4M: 1499.4 / N2994. - 7M: 1499.7 / -.		
White				
2M	2	**Z2271.1 BL**	2CLA227110Z1101	20
3M	3	**Z2373.1 BL**	2CLA237310Z1101	20
4M	4	**Z2474.1 BL**	2CLA247410Z1101	10
7M	7	**Z2777.1 BL**	2CLA277710Z1101	5
Silver				
2M	2	**Z2271.1 BL**	2CLA227110Z1301	20
3M	3	**Z2373.1 BL**	2CLA237310Z1301	20
4M	4	**Z2474.1 BL**	2CLA247410Z1301	10
7M	7	**Z2777.1 BL**	2CLA277710Z1301	5
Anthracite				
2M	2	**Z2271.1 BL**	2CLA227110Z1801	20
3M	3	**Z2373.1 BL**	2CLA237310Z1801	20
4M	4	**Z2474.1 BL**	2CLA247410Z1801	10
7M	7	**Z2777.1 BL**	2CLA277710Z1801	5
Champagne				
2M	2	**Z2271.1 BL**	2CLA227110Z1901	20
3M	3	**Z2373.1 BL**	2CLA237310Z1901	20
4M	4	**Z2474.1 BL**	2CLA247410Z1901	10
7M	7	**Z2777.1 BL**	2CLA277710Z1901	5

Size	Modularity	Article-No.	Order-No.	Pack/Qty
		**Frames - 2, 3, 4 and 7 modules - Noble - Glass** Material: 1,1mm thickness glass Size (width x height): - 2M: 85 x 85 mm. - 3M: 117 x 85 mm. - 4M: 139 x 85 mm. - 7M: 205 x 85 mm. Mounting plate codes: - For 2M box (60 mm screw distance): Z2271.91. - For 3M box (83,5 mm screw distance): Z2373.91. - For 4M box (107 mm screw distance): Z2474.91. - For 7M box (100 mm screw distance): Z2777.91. Mounting box codes (flush / surface mounting): - 2M: 1099, 1999 / 8591. - 3M: 499.3 / N2993. - 4M: 1499.4 / N2994. - 7M: 1499.7 / -.		
White Glass				
2M	2	**Z2271.1 CB**	2CLA227110Z3001	1
3M	3	**Z2373.1CB**	2CLA237310Z3001	1
4M	4	**Z2474.1 CB**	2CLA247410Z3001	1
7M	7	**Z2777.1 CB**	2CLA277710Z3001	1
Black Glass				
2M	2	**Z2271.1 CN**	2CLA227110Z3101	1
3M	3	**Z2373.1 CN**	2CLA237310Z3101	1
4M	4	**Z2474.1 CN**	2CLA247410Z3101	1
7M	7	**Z2777.1 CN**	2CLA277710Z3101	1

Zenit Soul - ABB logo

Frames

Size	Modularity	Article-No.	Order-No.	Pack/Qty
		Frames - 2, 3, 4 and 7 modules - Stainless Steel NEW Material: varnished / painted stainless steel Size (width x height): - 2M: 85 x 85 mm. - 3M: 117 x 85 mm. - 4M: 139 x 85 mm. - 7M: 205 x 85 mm. Mounting plate codes: - For 2M box (60 mm screw distance): Z2271.91. - For 3M box (83,5 mm screw distance): Z2373.91. - For 4M box (107 mm screw distance): Z2474.91. - For 7M box (100 mm screw distance): Z2777.91. Mounting box codes (flush / surface mounting): - 2M: 1099, 1999 / 8591. - 3M: 499.3 / N2993. - 4M: 1499.4 / N2994. - 7M: 1499.7 / -.		
Stainless Steel				
2M	2	**Z2271.1 OX**	2CLA227110Z4001	1
3M	3	**Z2373.1 OX**	2CLA237310Z4001	1
4M	4	**Z2474.1 OX**	2CLA247410Z4001	1
7M	7	**Z2777.1 OX**	2CLA277710Z4001	1
Silk Black				
2M	2	**Z2271.1 NS**	2CLA227110Z4101	1
3M	3	**Z2373.1 NS**	2CLA237310Z4101	1
4M	4	**Z2474.1 NS**	2CLA247410Z4101	1
7M	7	**Z2777.1 NS**	2CLA277710Z4101	1
Dune				
2M	2	**Z2271.1 DN**	2CLA227110Z4201	1
3M	3	**Z2373.1 DN**	2CLA237310Z4201	1
4M	4	**Z2474.1 DN**	2CLA247410Z4201	1
7M	7	**Z2777.1 DN**	2CLA277710Z4201	1
Taupe				
2M	2	**Z2271.1 TP**	2CLA227110Z4401	1
3M	3	**Z2373.1 TP**	2CLA237310Z4401	1
4M	4	**Z2474.1 TP**	2CLA247410Z4401	1
7M	7	**Z2777.1 TP**	2CLA277710Z4401	1
Commodore				
2M	2	**Z2271.1 CM**	2CLA227110Z4501	1
3M	3	**Z2373.1 CM**	2CLA237310Z4501	1
4M	4	**Z2474.1 CM**	2CLA247410Z4501	1
7M	7	**Z2777.1 CM**	2CLA277710Z4501	1
Mocha				
2M	2	**Z2271.1 MO**	2CLA227110Z4601	1
3M	3	**Z2373.1 MO**	2CLA237310Z4601	1
4M	4	**Z2474.1 MO**	2CLA247410Z4601	1
7M	7	**Z2777.1 MO**	2CLA277710Z4601	1
Matt Gold				
2M	2	**Z2271.1 OM**	2CLA227110Z4701	1
3M	3	**Z2373.1 OM**	2CLA237310Z4701	1
4M	4	**Z2474.1 OM**	2CLA247410Z4701	1
7M	7	**Z2777.1 OM**	2CLA277710Z4701	1

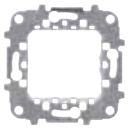
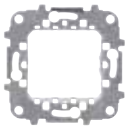
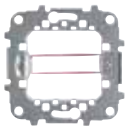
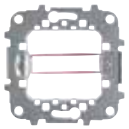
Zenit

Selection table

Installation habit / Size	Box		Zenit Float & Solid		Zenit Soul	
	Brick wall	Surface	Mounting plate	Frame	Mounting plate	Frame
European						
1-gang	1x 1199	1x 8591 BL	1x N2271.9 or 1x N2271.9G	1x N2171 or 1x N2271 or 1x N2271.1	1x Z2271.91	1x Z2271.1
2-gang	2x 1199	1x 8592 BL	2x N2271.9 or 2x N2271.9G or 1x N2272.9	1x N2272 or 1x N2272.1		
3-gang	3x 1199	1x 8593 BL	3x N2271.9 or 3x N2271.9G or 1x N2273.9	1x N2273 or 1x N2273.1		
4-gang	4x 1199		4x N2271.9 or 4x N2271.9G or 2x N2272.9	1x N2274 or 1x N2274.1		
5-gang	5x 1199		5x N2271.9 or 5x N2271.9G or N2272.9 + N2273.9	1x N2275		
Italian / American						
3M	1x 499.3 or 1x 1SL0060A00	1x N2993 BL	1x N2473.9 or 1x N2371.9V	1x N2471/2/3 or 1x N2471/2/3.1/2/3 or 1x N2370/1/2/3.1	1x Z2373.91	1x Z2373.1
4M	1x 1499.4 or 1x 00 053	1x N2994 BL	1x N2474.9	1x N2474 or 1x N2374.1	1x Z2474.91	1x Z2474.1
7M	1x 1499.7		1x N2777.9	1x N2777 or 1x N2777.1	1x Z2777.91	1x Z2777.1
4"x4"			1x N2673.9	1x N2670/1/2/3		
Asian						
3"x3"			1x N2573.9	1x N2573		

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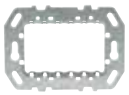
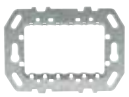
Mounting plates for Float and Solid frames

Size	Modules	Article-No.	Order-No.	Pack/Qty
		**Mounting plate for European box** For horizontal and vertical installation. To be installed with frames code: N2171 and N227X. Mounting plate suitable for 60 mm screw distance boxes code: 1199, 1199 & 1199.2 or surface mounting boxes code: 8591, 8592 & 8593. With aligning flaps for multigang frames. Optional: elastic claws N2071.9.		
1-gang	2 modules	**N2271.9**	2CLA227190N1001	20
		**Mounting plate for European box with protector** For horizontal and vertical installation. To be installed with frames code: N2171 and N227X. Mounting plate suitable for 60 mm screw distance boxes code: 1099, 1999 & 1999.2 or surface mounting boxes code: 8591, 8592 & 8593. With aligning flaps for multigang frames. Optional: elastic claws N2071.9. Includes a plastic cover to protect the devices from dust, paint, etc.		
1-gang	2 modules	**N2271.92**	2CLA227192N1001	20
		**Mounting plate for European box with clamps** For horizontal and vertical installation. To be installed with frames code: N2171 and N227X. Mounting plate suitable for 60 mm screw distance boxes code: 1199, 1199 & 1199.2 or surface mounting boxes code: 8591, 8592 & 8593. With aligning flaps for multigang frames. Included: fixing claws.		
1-gang	2 modules	**N2271.9 G**	2CLA227191N1001	20
		**Mounting plate for European box with clamps and protector** For horizontal and vertical installation. To be installed with frames code: N2171 and N227X. Mounting plate suitable for 60 mm screw distance boxes code: 1099, 1999 & 1999.2 or surface mounting boxes code: 8591, 8592 & 8593. With aligning flaps for multigang frames. Optional: elastic claws N2071.9. Included: fixing claws. Includes a plastic cover to protect the devices from dust, paint, etc.		
1-gang	2 modules	**N2271.93**	2CLA227193N1001	20
		**Mounting plate for European box** For horizontal installation. To be installed with frames code: - N2272: 1x N2272.9. - N2273: 1x N2272.9 + 1x N2271.9. - N2274: 2x N2272.9. - N2275: 2x N2272.9 + 1x N2271.9. Mounting plate suitable for 60 mm screw distance boxes code: 1199, 1199 & 1199.2 or surface mounting boxes code: 8592 & 8593. With aligning flaps for multigang frames.		
2-gang	2+2 modules	**N2272.9**	2CLA227290N1001	20

Size	Modules	Article-No.	Order-No.	Pack/Qty
		**Mounting plate for European box** For horizontal installation. To be installed with frames code: - N2273: 1x N2273.9 - N2274: 1x N2273.9 + 1x N2271.9. - N2275: 1x N2273.9 + 1x N2272.9. Mounting plate suitable for 60 mm screw distance boxes code: 1199, 1199 & 1199.2 or surface mounting boxes code: 8592 & 8593. With aligning flaps for multigang frames.		
3-gang	2+2+2 modules	**N2273.9**	2CLA227390N1001	20
		**Accessory for elastic claws** Accessory that facilitates the installation of 1 module devices in mounting plate N2271.9 with the elastic claws N2071.9.		
		N2071.8	2CLA207180N1001	10
		**Elastic claws** Fixing elastic claws for mounting plates code: N2271.9.		
		N2071.9	2CLA207190N1001	20

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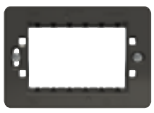
Mounting plates for Float and Solid frames

Size	Modules	Article-No.	Order-No.	Pack/Qty
		**Mounting plate for 3 module box - Vertical** Mounting plate that facilitates the assembly of 1 and 2 module devices in vertical installations. To be installed with frames code: N2472, N2371.1V and N2372.1. Mounting plate suitable for 83,5 mm screw distance boxes code: 499.3 or surface mounting boxes code: N2993.		
3M	2 modules	**N2371.9V**	2CLA237190N1001	20
		**Mounting plate for 3 module box** For horizontal and vertical installation of 1, 2 or 3 module devices. To be installed with frames code: N2471, N2471.1, N2472, N2472.1, N2472.2,N N2472.3, N2473, N2473.1, N2370.1, N2371.1, N2372.1, N2372.2 and N2373.1. Mounting plate suitable for 83,5 mm screw distance boxes code: 499.3 or surface mounting boxes code: N2993.		
3M	3 modules	**N2473.9**	2CLA247390N1001	20
		**Mounting plate for 3 module box with screws** For horizontal and vertical installation of 1, 2 or 3 module devices. To be installed with frames code: N2471, N2471.1, N2472, N2472.1, N2472.2,N N2472.3, N2473, N2473.1, N2370.1, N2371.1, N2372.1, N2372.2 and N2373.1. Mounting plate suitable for 83,5 mm screw distance boxes code: 499.3 or surface mounting boxes code: N2993. Included: 2 screws to fix the mounting plate.		
3M	3 modules	**N2473.91**	2CLA247391N1001	20
		**Mounting plate for 4 module box** For horizontal and vertical installation of 1, 2 or 3 module devices. To be installed with frames code: N2474 and N2374.1. Mounting plate suitable for 107 mm screw distance boxes code: 1499.4 or surface mounting boxes code: N2994.		
4M	4 modules	**N2474.9**	2CLA247490N1001	20
		**Mounting plate for 4 module box with screws** For horizontal and vertical installation of 1, 2 or 3 module devices. To be installed with frames code: N2474 and N2374.1. Mounting plate suitable for 107 mm screw distance boxes code: 1499.4 or surface mounting boxes code: N2994. Included: 2 screws to fix the mounting plate.		
4M	4 modules	**N2474.91**	2CLA247491N1001	20

Size	Modules	Article-No.	Order-No.	Pack/Qty
		**Mounting plate for 7 module box** For horizontal and vertical installation of 1, 2 or 3 module devices. To be installed with frames code: N2777 and N2777.1. Mounting plate suitable for 100 mm screw distance boxes code: 1499.7.		
7M	7 modules	**N2777.9**	2CLA277790N1001	20
		**Mounting plate for 7 module box with screws** For horizontal and vertical installation of 1, 2 or 3 module devices. To be installed with frames code: N2777 and N2777.1. Mounting plate suitable for 100 mm screw distance boxes code: 1499.7. Included: 4 screws to fix the mounting plate.		
7M	7 modules	**N2777.91**	2CLA277791N1001	20
		**Mounting plate for 4”x4” box** For horizontal and vertical installation of 1, 2 or 3 module devices. To be installed with frames code: N2670, N2671.1, N2672.2, N2672.4 and N2673.6. Mounting plate suitable for 4”x4” boxes.		
4”x4”	3+3 modules	**N2673.9**	2CLA267390N1001	10
		**Mounting plate for BS 3”x3” box** For horizontal and vertical installation in square boxes of 1, 2 or 3 module devices. To be installed with frames code: N2573. Mounting plate suitable for 60,3 mm screw distance BS 3”x3” boxes.		
3”x3”	3 modules	**N2573.9**	2CLA257390N1001	20

Zenit

Mounting plates for Soul frames

Size	Modules	**Article-No.**	Order-No.	Pack/Qty
			**Mounting plate for European box** For horizontal and vertical installation. To be installed with frames code: Z2271.1. Mounting plate suitable for 60 mm screw distance boxes code: 1099, 1999 & 1999.2 or surface mounting boxes code: 8591, 8592 & 8593. With aligning flaps for multigang frames.	
1-gang	2 modules	**Z2271.91**	2CLA227191Z1001	24
			**Mounting plate for 3 module box** For horizontal and vertical installation of 1, 2 or 3 module devices. To be installed with frames code: Z2373.1 Mounting plate suitable for 83,5 mm screw distance boxes code: 1SL0060A00. Included: 2 screws to fix the mounting plate.	
3M	3 modules	**Z2373.91**	2CLA237391Z1001	20
			**Mounting plate for 4 module box** For horizontal and vertical installation of 1, 2 or 3 module devices. To be installed with frames code: Z2474.1. Mounting plate suitable for 107 mm screw distance boxes code: 00 053. Included: 2 screws to fix the mounting plate.	
4M	4 modules	**Z2474.91**	2CLA247491Z1001	20
			**Mounting plate for 7 module box** For horizontal and vertical installation of 1, 2 or 3 module devices. To be installed with frames code: Z2777.1. Mounting plate suitable for 100 mm screw distance boxes code: 1499.7. Included: 4 screws to fix the mounting plate.	
7M	7 modules	**Z2777.91**	2CLA277791Z1001	20

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Flush mounting boxes

Size	Modules	Article-No.	Order-No.	Pack/Qty
		**European type box - Bricks and cement** Installation box for walls built with bricks or cement. Distance between screws: 60 mm Suitable for mounting plates code: N2271.9, N2271.9G, N2272.9, N2273.9 & Z2271.91. Allows the input of 2 tubes per each side. Linkable for multigang frames. Included: 2 screws to fix the mounting plate. The screws can be placed in any of the 4 sides to facilitate the installation of the insert in vertical and horizontal.		
1-gang	2 modules	**1199**	2CLA019900A1001	250
		**3 module type box - Bricks and cement** Installation box for walls built with bricks or cement. Distance between screws: 83,5 mm. Suitable for mounting plates code: N2371.9 & N2373.9. Included: 2 screws to fix the mounting plate.		
3M	3 modules	**499.3**	2CLA049930A1001	25
		**3 module type box - Bricks and cement** Installation box for walls built with bricks or cement. Distance between screws: 83,5 mm. Suitable for mounting plates code: Z2373.91.		
3M	3 modules	**1SL0060A00**	1SL0060A00	243
		**4 module type box - Bricks and cement** Installation box for walls built with bricks or cement. Distance between screws: 107 mm Suitable for mounting plates code: N2474.9. Included: 2 screws to fix the mounting plate.		
4M	4 modules	**1499.4**	2CLA049940A1001	20
		**4 module type box - Bricks and cement** Installation box for walls built with bricks or cement. Distance between screws: 107 mm Suitable for mounting plates code: Z2474.91.		
4M	4 modules	**00 053**	M000530000	150
		**7 module type box - Bricks and cement** Installation box for walls built with bricks or cement. Distance between screws: 100 mm Suitable for mounting plates code: N2777.9. Without screws. Included: 4 screws to fix the mounting plate.		
7M	7 modules	**1499.7**	2CLA049970A1001	5

Frames for metallic and plastic profiles

Size	Modules	Article-No.	Order-No.	Pack/Qty
		**Frame for metallic and plastic profiles** Frames suitable to be installed in reduced dimensions surfaces as plastic and metallic profiles or screens. For 1 module devices. Size (width x height): 32 x 68 mm. Shaft size (width x height): 26 x 50 mm.		
1-gang	1 module	**N2671 BL**	2CLA267100N1101	10
1-gang	1 module	**N2671 PL**	2CLA267100N1301	10
1-gang	1 module	**N2671 AN**	2CLA267100N1801	10
1-gang	1 module	**N2671 CV**	2CLA267100N1901	10
		**Frame for metallic and plastic profiles** Frames suitable to be installed in reduced dimensions surfaces as plastic and metallic profiles or screens. For 1 module devices. Size (width x height): 32 x 126 mm. Shaft size (width x height): 26 x 108 mm.		
2-gang	1+1 module	**N2671.2 BL**	2CLA267120N1101	5
2-gang	1+1 module	**N2671.2 PL**	2CLA267120N1301	5
2-gang	1+1 module	**N2671.2 AN**	2CLA267120N1801	5
2-gang	1+1 module	**N2671.2 CV**	2CLA267120N1901	5
		**Frame for metallic and plastic profiles** Frames suitable to be installed in reduced dimensions surfaces as plastic and metallic profiles or screens. For 1 and 2 module devices. Size (width x height): 54 x 68 mm. Shaft size (width x height): 49 x 50 mm.		
1-gang	2 modules	**N2672 BL**	2CLA267200N1101	6
1-gang	2 modules	**N2672 PL**	2CLA267200N1301	6
1-gang	2 modules	**N2672 AN**	2CLA267200N1801	6
1-gang	2 modules	**N2672 CV**	2CLA267200N1901	6

DIN-rail mounting plate

		**Adapter for DIN rail - 2M** Adapter that facilitates the intallation of Zenit devices up to 2 modules in switchboards on DIN rails. RAL 9010. Width: 53,5 mm.		
1-gang	2 modules	**N2692 BL**	2CLA269200N1101	10

Zenit

IP20 surface mounting boxes

Color	Article-No.	Order-No.	Pack/Qty
	**Surface mounting box with frame - 2 modules** Surface mounting box for 1 and 2 module devices. The box includes the clipping system to clasp inserts (no mounting plate necessary). Included: frame - 2 modules Size (Width x Height x Depth): 64 x 70 x 47 mm. Pre-cut areas in the 4 sides for N2999 adapters.		
White	**N2991.1 BL**	2CLA299110N1101	10
	**Surface mounting box - 2M** Surface mounting box for 1 and 2 module devices. Suitable for 2 module mounting plates N2271.9. Suitable for N2171 and N2271 frames. Size (Width x Height x Depth): 86 x 86 x 44 mm. Pre-cut areas in the 4 sides for N2999 adapters.		
White	**8591 BL**	2CLA859100N1101	6
	**Surface mounting box - 2+2M** Surface mounting box for 1 and 2 module devices. Suitable for 2 module mounting plates N2271.9. Suitable for N2272 frames. Size (Width x Height x Depth): 157 x 86 x 44 mm. Pre-cut areas in the 4 sides for N2999 adapters.		
White	**8592 BL**	2CLA859200N1101	5
	**Surface mounting box - 2+2+2M** Surface mounting box for 1 and 2 module devices. Suitable for 2 module mounting plates N2271.9. Suitable for N2273 frames. Size (Width x Height x Depth): 228 x 86 x 44 mm. Pre-cut areas in the 4 sides for N2999 adapters.		
White	**8593 BL**	2CLA859300N1101	1
	**Surface mounting box - 3M** Surface mounting box for 1, 2 or 3 module devices. Suitable for 3 module mounting plates N2371.9 and N2373.9. Suitable for N2471, N2472 and N2473 frames. Size (Width x Height x Depth): 107 x 85 x 44 mm. Pre-cut areas in the 4 sides for N2999 adapters.		
White	**N2993 BL**	2CLA299300N1101	10
	**Surface mounting box - 4M** Surface mounting box for 1, 2 or 3 module devices. Suitable for 4 module mounting plates N2374.9. Suitable for N2374 frames. Size (Width x Height x Depth): 139 x 85 x 44 mm. Pre-cut areas in the 4 sides for N2999 adapters.		
White	**N2994 BL**	2CLA299400N1101	5
	Adapter for tubes/pipes Adapter for tubes of Ø16, Ø20, Ø25. Suitable for surface mounting boxes code: N2991.1, 8591, 8592, 8593, N2993 and N2994.		
White	**N2999 BL**	2CLA299900N1101	10

IP40 surface mounting boxes

Color	Article-No.	Order-No.	Pack/Qty
	**Surface mounting box - IP40 - 2 modules** Box for surface installation. 1-gang - 2 modules. For 1 or 2 module devices. Size (height x width x depth): 80 x 65 x 55 mm. Color: gray - RAL 7035. Protection degree: IP40 / IK06. Incoming with multi-diameter cone for tubes/cables max. Ø20. The box includes the clipping system to clasp inserts (no mounting plate, nor frame are necessary).		
Gray	**N3291.1**	2CLA329110N1101	10
	**Surface mounting box - IP40 - 2+2 modules** Box for surface installation. 2-gang - 2+2 modules. For 1 or 2 module devices. Size (height x width x depth): 80 x 130 x 55 mm Color: gray - RAL 7035. Protection degree: IP40 / IK06. Double incoming with multi-diameter cone for tubes/cables max. Ø20. The box includes the clipping system to clasp inserts (no mounting plate, nor frame are necessary).		
Gray	**N3292.1**	2CLA329210N1101	10
	**Surface mounting box - IP40 - 2+2+2 modules** Box for surface installation. 3-gang - 2+2+2 modules. For 1 or 2 module devices. Size (height x width x depth): 80 x 195 x 55 mm. Color: gray - RAL 7035. Protection degree: IP40 / IK06. Incoming with multi-diameter cone for tubes/cables max. Ø20. The box includes the clipping system to clasp inserts (no mounting plate, nor frame are necessary).		
Gray	**N3293.1**	2CLA329310N1101	5
	**Surface mounting box - IP40 - 3 modules** Box for surface installation. 1-gang - 3 modules. For 1, 2 or 3 module devices. Size (height x width x depth): 80 x 104 x 55 mm Color: gray - RAL 7035. Protection degree: IP40 / IK06. Incoming with multi-diameter cone for tubes/cables max. Ø20. The box includes the clipping system to clasp inserts (no mounting plate, nor frame are necessary).		
Gray	**N3391.1**	2CLA339110N1101	10

Zenit

IP55 flush mounting kits

Color	Article-No.	Order-No.	Pack/Qty
	**Kit IP55 2-way switch - flush mounted** Kit with: - N3271 BL: IP55 frame for flush mounting - 1-gang - 2 modules. - N2202 BL: 1-gang, 2-way / 127 - 250 Vac / 16 AX. - 1-gang, 2 module mounting plate. Protection degree: IP55 (with lid closed). Color: white. Opening angle of the lid: 120°. The lid allows operating the switch in closed position.		
White	**N3002**	2CLA300200N1101	10
	**Kit IP55 push button - flush mounted** Kit with: - N3271 BL: IP55 frame for flush mounting - 1-gang - 2 modules. - N2204 BL: 1-gang, 1-way, NO push button / 127 - 250 Vac / 16 A. - 1-gang, 2 module mounting plate. Protection degree: IP55 (with lid closed). Color: white. Opening angle of the lid: 120°. The lid allows operating the push button in closed position.		
White	**N3004**	2CLA300400N1101	10
	**Kit IP55 Schuko socket outlet - flush mounted** Kit with: - N3271 BL: IP55 frame for flush mounting - 1-gang - 2 modules. - N2288 BL: Schuko socket outlet / 127 - 250 Vac / 16 A. - 1-gang, 2 module mounting plate. Protection degree: IP55 (with lid closed). Color: white. Opening angle of the lid: 120°.		
White	**N3088**	2CLA308800N1101	10

IP55 flush mounting frames

Color	Article-No.	Order-No.	Pack/Qty
	**Flush mounting frames - IP55 - 2 modules** Frames for IP55 flush mounted installations. 1-gang - 2 modules. For 1 or 2 module devices. Size (height x width): 90 x 90 mm. Included: one 1-gang, 2 module mounting plate. Protection degree: IP55 (with lid closed). Opening angle of the lid: 120°. The lid allows operating the switch in closed position. Suitable for 60mm screw distance boxes.		
White	**N3271 BL**	2CLA327100N1101	10
Gray	**N3271 GR**	2CLA327100N1701	10
Anthracite	**N3271 AN**	2CLA327100N1801	10
	**Flush mounting frames - IP55 - 2+2 modules** Frames for IP55 flush mounted vertical and horizontal installations. 2-gang - 2+2 modules. For 1 or 2 module devices. Size (height x width): 161 x 90 mm. Included: two 1-gang, 2 module mounting plate. Protection degree: IP55 (with lid closed). Opening angle of the lid: 120°. The lid allows operating the switch in closed position. Suitable for 60mm screw distance boxes.		
White	**N3272 BL**	2CLA327200N1101	5
Gray	**N3272 GR**	2CLA327200N1701	5
Anthracite	**N3272 AN**	2CLA327200N1801	5
	**Flush mounting frames - IP55 - 3 modules** Frames for IP55 flush mounted horizontal installations. 1-gang - 3 modules. For 1, 2 or 3 module devices. Size (height x width): 90 x 122 mm. Included: one 1-gang, 3 module mounting plate. Protection degree: IP55 (with lid closed). Opening angle of the lid: 120°. The lid allows operating the switch in closed position. Suitable for 83,5mm screw distance 3 module boxes.		
White	**N3373 BL**	2CLA337300N1101	5
Gray	**N3373 GR**	2CLA337300N1701	5
Anthracite	**N3373 AN**	2CLA337300N1801	5

Zenit

IP55 surface mounting kits

Color	Article-No.	Order-No.	Pack/Qty
	**Kit IP55 2-way switch - surface mounted** Kit with: - N3291: IP55 box for surface mounting - 1-gang - 2 modules. - N2202 BL: 1-gang, 2-way / 127 - 250 Vac / 16 AX. Protection degree: IP55 (with lid closed). Color: white device / gray RAL 7035 box. Opening angle of the lid: 120°. The lid allows operating the switch in closed position. Incoming with multi-diameter cone for tubes/cables max. Ø20. The box includes the clipping system to clasp inserts (no mounting plate, nor frame are necessary).		
Gray	**N3202**	2CLA320200N1101	10
	**Kit IP55 push button - surface mounted** Kit with: - N3291: IP55 box for surface mounting - 1-gang - 2 modules. - N2204 BL: 1-gang, 1-way, NO push button / 127 - 250 Vac / 16 A. Protection degree: IP55 (with lid closed). Color: white device / gray RAL 7035 box. Opening angle of the lid: 120°. The lid allows operating the switch in closed position. Incoming with multi-diameter cone for tubes/cables max. Ø20. The box includes the clipping system to clasp inserts (no mounting plate, nor frame are necessary).		
Gray	**N3204**	2CLA300400N1101	10
	**Kit IP55 Schuko socket outlet - surface mounted** Kit with: - N3291: IP55 box for surface mounting - 1-gang - 2 modules. - N2288 BL: Schuko socket outlet / 127 - 250 Vac / 16 A. Protection degree: IP55 (with lid closed). Color: white device / gray RAL 7035 box. Opening angle of the lid: 120°. The lid allows operating the switch in closed position. Incoming with multi-diameter cone for tubes/cables max. Ø20. The box includes the clipping system to clasp inserts (no mounting plate, nor frame are necessary).		
Gray	**N3288**	2CLA308800N1101	10

IP55 surface mounting boxes

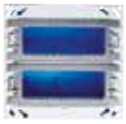
Color	Article-No.	Order-No.	Pack/Qty
	**Surface mounting box - IP55 - 2 modules** Box for IP55 surface mounted installations. 1-gang - 2 modules. For 1 or 2 module devices. Size (height x width x depth): 80 x 65 x 63 mm Color: gray RAL 7035 Protection degree: IP55 (with lid closed). Opening angle of the lid: 120°. The lid allows operating the switch in closed position. Incoming with multi-diameter cone for tubes/cables max. Ø20. The box includes the clipping system to clasp inserts (no mounting plate, nor frame are necessary).		
Gray	**N3291**	2CLA329100N1101	10
	**Surface mounting box - IP55 - 2+2 modules** Box for IP55 surface mounted horizontal installations. 2-gang - 2+2 modules. For 1 or 2 module devices. Size (height x width x depth): 80 x 130 x 63 mm. Color: gray RAL 7035. Protection degree: IP55 (with lid closed). Opening angle of the lid: 120°. The lid allows operating the switch in closed position. Incoming with multi-diameter cone for tubes/cables max. Ø20. The box includes the clipping system to clasp inserts (no mounting plate, nor frame are necessary).		
Gray	**N3292**	2CLA329200N1101	10
	**Surface mounting box - IP55 - 2+2+2 modules** Box for IP55 surface mounted horizontal installations. 3-gang - 2+2+2 modules. For 1 or 2 module devices. Size (height x width x depth): 80 x 195 x 63 mm Color: gray RAL 7035 Protection degree: IP55 (with lid closed). Opening angle of the lid: 120°. The lid allows operating the switch in closed position. Incoming with multi-diameter cone for tubes/cables max. Ø20. The box includes the clipping system to clasp inserts (no mounting plate, nor frame are necessary).		
Gray	**N3293**	2CLA329300N1101	5
	**Surface mounting box - IP55 - 3 modules** Box for IP55 surface mounted horizontal installations. 1-gang - 3 modules. For 1, 2 or 3 module devices. Size (height x width x depth): 80 x 104 x 63 mm. Color: gray RAL 7035. Protection degree: IP55 (with lid closed). Opening angle of the lid: 120°. The lid allows operating the switch in closed position. Incoming with multi-diameter cone for tubes/cables max. Ø20. The box includes the clipping system to clasp inserts (no mounting plate, nor frame are necessary).		
Gray	**N3391**	2CLA339100N1101	10

Zenit - centralizations

Surface mounting boxes

Color	Article-No.	Order-No.	Pack/Qty
	**Surface mounting box - 12 modules** Zenit centralization box for surface mounted installations. 2-gang - 6+6 modules. For 1, 2 or 3 module devices. Size (height x width x depth): 204 x 212 x 55 mm. Included: - Metallic mounting plates (horizontally folding for easy installation). - Screws. - Plugs. Suitable for frames code: T1272.		
White	**T1292 BL**	2CLA129200T1001	1
Silver	**T1292 PL**	2CLA129200T1301	1
Anthracite	**T1292 AN**	2CLA129200T1801	1
	**Surface mounting box - 18 modules** Zenit centralization box for surface mounted installations. 3-gang - 6+6+6 modules. For 1, 2 or 3 module devices. Size (height x width x depth): 275 x 212 x 55 mm Included: - Metallic mounting plates (horizontally folding for easy installation). - Screws. - Plugs. Suitable for frames code: T1273.		
White	**T1293 BL**	2CLA129300T1001	1
Silver	**T1293 PL**	2CLA129300T1301	1
Anthracite	**T1293 AN**	2CLA129300T1801	1
	**Surface mounting box - 24 modules** Zenit centralization box for surface mounted installations. 4-gang - 6+6+6+6 modules. For 1, 2 or 3 module devices. Size (height x width x depth): 346 x 212 x 55 mm Included: - Metallic mounting plates (horizontally folding for easy installation). - Screws. - Plugs. Suitable for frames code: T1274.		
White	**T1294 BL**	2CLA129400T1001	1
Silver	**T1294 PL**	2CLA129400T1301	1
Anthracite	**T1294 AN**	2CLA129400T1801	1

Flush mounting boxes

Product	Article-No.	Order-No.	Pack/Qty
	**Flush mounting box - 12 modules** Zenit centralization box for flush mounted installations. 2-gang - 6+6 modules. For 1, 2 or 3 module devices. Size (height x width x depth): 178 x 186 x 55 mm Included: - Metallic mounting plates (horizontally folding for easy installation). - Multi-box linking accessories. - Screws. - Plugs. - Claws for drywall. Suitable for frames code: T1272.		
	T1092.1	2CLA109210T1001	1
	**Flush mounting box - 18 modules** Zenit centralization box for flush mounted installations. 3-gang - 6+6+6 modules. For 1, 2 or 3 module devices. Size (height x width x depth): 249 x 186 x 55 mm Included: - Metallic mounting plates (horizontally folding for easy installation). - M;ulti-box linking accessories. - Screws. - Plugs. - Claws for drywall. Suitable for frames code: T1273.		
	T1093.1	2CLA109310T1001	1
	**Flush mounting box - 24 modules** Zenit centralization box for flush mounted installations. 4-gang - 6+6+6+6 modules. For 1, 2 or 3 module devices. Size (height x width x depth): 320 x 186 x 55 mm Included: - Metallic mounting plates (horizontally folding for easy installation). - Multi-box linking accessories. - Screws. - Plugs. - Claws for drywall. Suitable for frames code: T1274.		
	T1094.1	2CLA109410T1001	1

Zenit - centralizations

Frames

Color	Article-No.	Order-No.	Pack/Qty
	**Frame for centralizations - 12 modules** Color: - BL: White plate / White frame. - BP: White plate / Silver frame. - PL: Silver plate / Silver frame. - AN: Anthracite plate / Anthracite frame. Zenit centralization frames for flush mounting boxes code T1092.1 and surface mounting boxes code T1292. 2-gang - 6+6 modules. For 1, 2 or 3 module devices. With labeling space. Size (height x width): 204 x 212 mm.		
White/White	**T1272 BL**	2CLA127200T1101	1
White/Silver	**T1272 BP**	2CLA127200T1201	1
Silver	**T1272 PL**	2CLA127200T1301	1
Anthracite	**T1272 AN**	2CLA127200T1801	1
	**Frame for centralizations - 18 modules** Color: - BL: White plate / White frame. - BP: White plate / Silver frame. - PL: Silver plate / Silver frame. - AN: Anthracite plate / Anthracite frame. Zenit centralization frames for flush mounting boxes code T1093.1 and surface mounting boxes code T1293. 4-gang - 6+6+6 modules. For 1, 2 or 3 module devices. With labeling space. Size (height x width): 275 x 212 mm.		
White/White	**T1273 BL**	2CLA127300T1101	1
White/Silver	**T1273 BP**	2CLA127300T1201	1
Silver	**T1273 PL**	2CLA127300T1301	1
Anthracite	**T1273 AN**	2CLA127300T1801	1
	**Frame for centralizations - 24 modules** Color: - BL: White plate / White frame. - BP: White plate / Silver frame. - PL: Silver plate / Silver frame. - AN: Anthracite plate / Anthracite frame. Zenit centralization frames for flush mounting boxes code T1094.1 and surface mounting boxes code T1294. 4-gang - 6+6+6+6 modules. For 1, 2 or 3 module devices. With labeling space. Size (height x width): 346 x 212 mm.		
White/White	**T1274 BL**	2CLA127400T1101	1
White/Silver	**T1274 BP**	2CLA127400T1201	1
Silver	**T1274 PL**	2CLA127400T1301	1
Anthracite	**T1274 AN**	2CLA127400T1801	1

Zenit - workstations

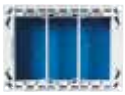
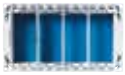
Surface mounting boxes

Color	Article-No.	Order-No.	Pack/Qty
	**Surface mounting box - 2 columns** Box for surface mounted installations. 2-columns - 2+2+2+2 modules. For 1 or 2 module devices. Also suitable for T10XX devices. Size (height x width x depth): 176 x 175 x 45 mm Included: - Mounting plates (vertically folding devices for easy installation) - Multi-box linking accessories - Screws - Plugs - Side cover for trunking system incoming and isolating metallic plate to divide power from VDI. Suitable for frames code: T1172.		
White	**T1192 BL**	2CLA119200T1001	1
Silver	**T1192 PL**	2CLA119200T1301	1
	**Surface mounting box - 3 columns** Box for surface mounted installations. 3-columns - 2+2+2+2+2+2 modules. For 1 or 2 module devices. Also suitable for T10XX devices. Size (height x width x depth): 176 x 235 x 45 mm Included: - Mounting plates (vertically folding devices for easy installation) - Multi-box linking accessories - Screws - Plugs - Side cover for trunking system incoming and isolating metallic plate to divide power from VDI. Suitable for frames code: T1173.		
White	**T1193 BL**	2CLA119300T1001	1
Silver	**T1193 PL**	2CLA119300T1301	1
	**Surface mounting box - 4 columns** Box for surface mounted installations. 4-columns - 2+2+2+2+2+2+2+2 modules. For 1 or 2 module devices. Also suitable for T10XX devices. Size (height x width x depth): 176 x 295 x 45 mm Included: - Mounting plates (vertically folding devices for easy installation) - Multi-box linking accessories - Screws - Plugs - Side cover for trunking system incoming and isolating metallic plate to divide power from VDI. Suitable for frames code: T1174.		
White	**T1194 BL**	2CLA119400T1001	1
Silver	**T1194 PL**	2CLA119400T1301	1

Color	Article-No.	Order-No.	Pack/Qty
	**Surface mounting box - 5 columns** Box for surface mounted installations. 5-columns - 2+2+2+2+2+2+2+2+2+2 modules. For 1 or 2 module devices. Also suitable for T10XX devices. Size (height x width x depth): 176 x 355 x 45 mm Included: - Mounting plates (vertically folding devices for easy installation) - Multi-box linking accessories - Screws - Plugs - Side cover for trunking system incoming and isolating metallic plate to divide power from VDI. Suitable for frames code: T1175.		
White	**T1195 BL**	2CLA119500T1001	1
Silver	**T1195 PL**	2CLA119500T1301	1

Zenit - workstations

Flush mounting boxes

Product	Article-No.	Order-No.	Pack/Qty
	**Flush mounting box - 2 columns** Box for flush mounted installations. 2-columns - 2+2+2+2 modules. For 1 or 2 module devices. Also suitable for T10XX devices. Size (height x width x depth): 150 x 151 x 45 mm Included: - Mounting plates (vertically folding devices for easy installation) - Multi-box linking accessories - Screws - Plugs - isolating metallic plate to divide power from VDI and claws for drywall. Suitable for frames code: T1172.		
	T1092	2CLA109200T1001	1
	**Flush mounting box - 3 columns** Box for flush mounted installations. 3-columns - 2+2+2+2+2+2 modules. For 1 or 2 module devices. Also suitable for T10XX devices. Size (height x width x depth): 150 x 211 x 45 mm Included: - Mounting plates (vertically folding devices for easy installation) - Multi-box linking accessories - Screws - Plugs - Isolating metallic plate to divide power from VDI and claws for drywall. Suitable for frames code: T1173.		
	T1093	2CLA109300T1001	1
	**Flush mounting box - 4 columns** Box for flush mounted installations. 4-columns - 2+2+2+2+2+2+2+2 modules. For 1 or 2 module devices. Also suitable for T10XX devices. Size (height x width x depth): 150 x 271 x 45 mm Included: - Mounting plates (vertically folding devices for easy installation) - Multi-box linking accessories - Screws - Plugs - isolating metallic plate to divide power from VDI and claws for drywall. Suitable for frames code: T1174.		
	T1094	2CLA109400T1001	1

Zenit - workstations

Frames

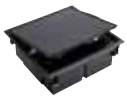
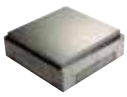
Color	Article-No.	Order-No.	Pack/Qty
	**Frame for workstations - 2 columns** Color: - BL: White plate / White frame - PL: Silver plate / Silver frame - TT: White plate / Titanium metallic frame Zenit workstation frames for flush mounting boxes code T1092 and surface mounting boxes code T1192. 2-columns - 4-gang - 2+2+2+2 modules. For 1 or 2 module devices. Also suitable for T10XX devices. Size (height x width): 176x 175 mm.		
White	**T1172 BL**	2CLA117200T1101	1
Silver	**T1172 PL**	2CLA117200T1301	1
	**Frame for workstations - 3 columns** Color: - BL: White plate / White frame - PL: Silver plate / Silver frame - TT: White plate / Titanium metallic frame Zenit workstation frames for flush mounting boxes code T1093 and surface mounting boxes code T1193. 3-columns - 6-gang - 2+2+2+2+2+2 modules. For 1 or 2 module devices. Also suitable for T10XX devices. Size (height x width): 176x 235 mm.		
White	**T1173 BL**	2CLA117300T1101	1
Silver	**T1173 PL**	2CLA117300T1301	1
	**Frame for workstations - 4 columns** Color: - BL: White plate / White frame - PL: Silver plate / Silver frame - TT: White plate / Titanium metallic frame Zenit workstation frames for flush mounting boxes code T1094 and surface mounting boxes code T1194. 4-columns - 8-gang - 2+2+2+2+2+2+2+2 modules. For 1 or 2 module devices. Also suitable for T10XX devices. Size (height x width): 176x 295 mm.		
White	**T1174 BL**	2CLA117400T1101	1
Silver	**T1174 PL**	2CLA117400T1301	1
	**Frame for workstations - 5 columns** Color: - BL: White plate / White frame - PL: Silver plate / Silver frame - TT: White plate / Titanium metallic frame Zenit workstation frames for surface mounting boxes code T1195. 5-columns - 10-gang - 2+2+2+2+2+2+2+2+2+2 modules. For 1 or 2 module devices. Also suitable for T10XX devices. Size (height x width): 176x 355 mm.		
White	**T1175 BL**	2CLA117500T1101	1
Silver	**T1175 PL**	2CLA117500T1301	1

Foldable lid

Color	Article-No.	Order-No.	Pack/Qty
	**Foldable lid for workstations - Black** Foldable lid to cover the devices and cables in a workstation: - T1173.5: for 3-column workstations. - T1174.5: for 4-column workstations. - T1175.5: for 5-column workstations. This is an optional accessory for surface and flush mounted boxes.		
Black	**T1173.5**	2CLA117350T1001	1
Black	**T1174.5**	2CLA117450T1001	1
Black	**T1175.5**	2CLA117450T1001	1

Zenit - workstations

Floor boxes

Color	Article-No.	Order-No.	Pack/Qty
	**Floor box - 3 columns - 5 mm. hollow lid** Floor box with 5 mm. deep hollow lid for carpet, linoleum, etc. Protection degree: - IP52 between the box and the floor ensured by loss-proof seal. - IP4x at the rim of the lid. - IP2x at the cable inlet. Resistance of the lid: 1500 N according to DIN VDE 0364. Resistance to chemicals present in the main detergents. Direct installation in technical or raised floor. Installation in tradiotional floors using the flush mounting metal box code T1393.9. Color: dark gray RAL 7021. Size (height x width x depth): 235 x 300 x 100 mm. Slot size (height x width): 211 x 275 mm. Suitable mounting plates code: T1373 and T1371.4.		
Dark gray	**T1393**	M109020000	1
	**Floor box - 3 columns - Stainless steel lid** Floor box with anti-slip square patterned lid with stainless steel finish. Protection degree: - IP52 between the box and the floor ensured by loss-proof seal. - IP4x at the rim of the lid. - IP2x at the cable inlet. Resistance of the lid: 1500 N according to DIN VDE 0364. Resistance to chemicals present in the main detergents. Direct installation in technical or raised floor. Installation in tradiotional floors using the flush mounting metal box code T1393.9. Color: dark gray RAL 7021. Size (height x width x depth): 235 x 300 x 100 mm. Slot size (height x width): 211 x 275 mm. Suitable mounting plates code: T1373 and T1371.4.		
Dark gray	**T1393.1**	M109030000	1
	**Flush mounting metal box** Accessory for the installation of the floor boxes code T1393 and T1393.1 in tradiotional/concrete floors. Supplied with protection semi-lid and bunkheads for trunkings of 70x30 mm. and of 95x30 mm. and for ø 25 mm and 32 mm. conduits. Size (height x width x depth): 230 x 305 x 105 mm.		
	T1393.9	M109300000	1

Mounting plates for floor box

Color	Article-No.	Order-No.	Pack/Qty
	**Mounting plate for floor box - 3 columns** 3-column adapter for the installation of Zenit devices and/or T10XX devices in floor boxes code: T1393 and T1393.1. 3-columns - 2+2+2+2+2+2 modules. For 1 or 2 module devices. Also suitable for T10XX devices. Included: - Mounting plates. - Frame. - Screws.		
White	**T1373**	2CLA137300T1101	20
	**Adapter plate for floor box - 4 modules** 4 module adapter plate for the installation of Zenit devices in floor boxes code: T1393 and T1393.1. To be combined with Zenit 4-module mounting plates code N1374.9 and frames code N2374.1. For 1, 2 or 3 module devices. Included: screws.		
Dark gray	**T1371.4**	M109190000	6

Duplex socket outlets

	**Duplex Schuko socket outlet** Rated voltage: 250 Vac. Rated current: 16A. Type F: 2P + E. Shuttered for child safety. Screw terminals (common terminal for both outlets). Folding system for easy installation. With labeling space. Optional: power indicator LED lamp code: 6192. Suitable for boxes code T1193, T1194, T1195, T1093 and T1094 and mounting plates code T1373. Colors RJ and RP are suitable to identify special circuits.		
White/White	**T1088 BL**	2CLA108800T1001	5
Silver/Silver	**T1088 PL**	2CLA108800T1301	5
White/Red	**T1088 RJ**	2CLA108800T7001	5
Silver/Red	**T1088 RP**	2CLA108800T7301	5
	**Duplex French/Earth-pin socket outlet** Rated voltage: 250 Vac. Rated current: 16A. Type E: 2P + E. Shuttered for child safety. Screw terminals (common terminal for both outlets). Folding system for easy installation. With labeling space. Optional: power indicator LED lamp code: 6192. Suitable for boxes code T1193, T1194, T1195, T1093 and T1094 and mounting plates code T1373. Color RJ is suitable to identify special circuits.		
White/White	**T1087 BL**	2CLA108700T1001	5
White/Red	**T1087 RJ**	2CLA108700T7001	5

Zenit - workstations

Adapters

Color	Article-No.	Order-No.	Pack/Qty
	2-gang plain outlet without shutter 1-column plain outlet without shutter. 2-gang. With labeling space. Without shutters. Suitable for boxes code T1193, T1194, T1195, T1093 and T1094 and mounting plates code T1373. To be used with 2016, 2016.1, 2016.2 or 2016.3 connector adapters. Included: 2x 2016 connector adapters.		
White	**T1016.1 BL**	2CLA101610T1001	10
Silver	**T1016.1 PL**	2CLA101610T1301	10
	4-gang plain outlet without shutter 1-column plain outlet without shutter. 4-gang. With labeling space. Without shutters. Suitable for boxes code T1193, T1194, T1195, T1093 and T1094 and mounting plates code T1373. To be used with 2016, 2016.1, 2016.2 or 2016.3 connector adapters. Included: 4x 2016 connector adapters.		
White	**T1016.2 BL**	2CLA101620T1001	10
Silver	**T1016.2 PL**	2CLA101620T1301	10
	2-gang plain outlet with shutter 1-column plain outlet without shutter. 2-gang. With labeling space. With shutters. Suitable for boxes code T1193, T1194, T1195, T1093 and T1094 and mounting plates code T1373. To be used with 2016, 2016.1, 2016.2 or 2016.3 connector adapters. Included: 2x 2016 connector adapters.		
White	**T1016.3 BL**	2CLA101630T1001	10
Silver	**T1016.3 PL**	2CLA101630T1301	10
	4-gang plain outlet with shutter 1-column plain outlet without shutter. 4-gang. With labeling space. With shutters. Suitable for boxes code T1193, T1194, T1195, T1093 and T1094 and mounting plates code T1373. To be used with 2016, 2016.1, 2016.2 or 2016.3 connector adapters. Included: 4x 2016 connector adapters.		
White	**T1016.4 BL**	2CLA101640T1001	10
Silver	**T1016.4 PL**	2CLA101640T1301	10
	2-gang 45º outlet without shutter 1-column 45º outlet without shutter. 2-gang. With labeling space. Without shutters. Suitable for boxes code T1193, T1194, T1195, T1093 and T1094 and mounting plates code T1373. To be used with 2016, 2016.1, 2016.2 or 2016.3 connector adapters. Included: 2x 2016 connector adapters.		
White	**T1016.5 BL**	2CLA101650T1001	5
Silver	**T1016.5 PL**	2CLA101650T1301	5

Color	Article-No.	Order-No.	Pack/Qty
	4-gang 45º outlet without shutter 1-column 45º outlet without shutter. 4-gang. With labeling space. Without shutters. Suitable for boxes code T1193, T1194, T1195, T1093 and T1094 and mounting plates code T1373. To be used with 2016, 2016.1, 2016.2 or 2016.3 connector adapters. Included: 4x 2016 connector adapters.		
White	**T1016.6 BL**	2CLA101660T1001	5
Silver	**T1016.6 PL**	2CLA101660T1301	5
	2-gang 45º outlet with shutter 1-column 45º outlet without shutter. 2-gang. With labeling space. With shutters. Suitable for boxes code T1193, T1194, T1195, T1093 and T1094 and mounting plates code T1373. To be used with 2016, 2016.1, 2016.2 or 2016.3 connector adapters. Included: 2x 2016 connector adapters.		
White	**T1016.7 BL**	2CLA101670T1001	5
Silver	**T1016.7 PL**	2CLA101670T1301	5
	4-gang 45º outlet with shutter 1-column 45º outlet without shutter. 4-gang. With labeling space. With shutters. Suitable for boxes code T1193, T1194, T1195, T1093 and T1094 and mounting plates code T1373. To be used with 2016, 2016.1, 2016.2 or 2016.3 connector adapters. Included: 4x 2016 connector adapters.		
White	**T1016.8 BL**	2CLA101680T1001	10
Silver	**T1016.8 PL**	2CLA101680T1301	10
	Adapter plate for ABB DIN-rail devices 1-column adapter ABB System Pro M DIN-rail devices. 2 modules. For 1 or 2 module devices. Suitable for boxes code T1193, T1194, T1195, T1093 and T1094 and mounting plates code T1373.		
White	**T1034.1 BL**	2CLA103410T1001	4
Silver	**T1034.1 PL**	2CLA103410T1301	4
	Adapter plate for Zenit devices 1-column adapter plate for Zenit devices. 2+2 modules. For 1 or 2 module devices. With labeling space. Suitable for boxes code T1193, T1194, T1195, T1093 and T1094 and mounting plates code T1373.		
	T1000	2CLA100000T1001	10

Notes

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Mylos®

The system in harmony with the world

Italian design with high quality materials. Even in the smallest of details, functionality marries appearance. Ultra-thin square frames. Three different finishes of Mylos to choose from: Velvet, Lucent and Etik, granted with the Silver A' Design Award and the Good Design Award for Product Design because of its simplicity and elegance. The use of biopolymer gives it a unique design aesthetic with no compromises on the sustainability of the whole lifecycle. Your house is your world. And your world reflects you. Express yourself with Mylos.



Velvet finishes
1 white
2 black
3 cold grey
4 graphite
5 anthracite

Lucent finishes
6 white alabaster
7 brilliant black
8 ice

Etik finishes
9 matt black
10 matt white

END OF LIFE

Mylos®
Selected functions



Control devices
Maximum flexibility in the selection of switches, push switches, two-way switches, intermediate switches, relays and change-over switches. The most common control devices are available in screwless versions, reducing installation times even further. All the conventional control devices, except for relays and change-over switches, can be lit. Switches are available with an incorporated LED to enable all types of functional indication.



Socket outlets
The versions with 2P+E 10-16A socket outlets for 250V lines are available in the Italian and German standards, with safety shutters and side/central earth. For telephone and data transmission applications various types of connectors compatible with the most widespread international wiring standards are available.



Key covers
The key covers in 1 module or 1/2 module versions allow conventional switches to be customised as desired.



Protection devices
These devices intervene in the event of overloads, short circuits and other phenomena that involve a risk for the safety of persons and which compromise proper operation of connected appliances, performing their protection function directly downstream without impacting the power supply to other points in the electrical installation.

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Mylos®
Selected functions



Signalling devices
Warning lights to display the operating status of connected appliances, as well as bells and buzzers. The warning lights are supplied with an incorporated 230V LED, which can be replaced for use under different voltages, if necessary.



Comfort devices
To optimize the operation of electrical appliances and increase the liveability of environments, the range includes devices for programming, adjustment and timing such as time-programmed thermostats, electronic thermostats and dimmers. IR presence detectors and receivers for remote controls complete the product range to guarantee the maximum level of comfort. Removable anti-blackout lights and emergency lights are available with ample operating autonomy.



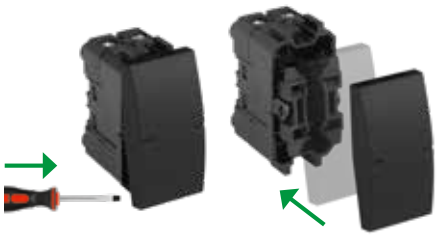
Home and building automation
Mylos represents also a simple and immediate solution to best meet the needs of both residential and building applications. Mylos free@home® and Mylos KNX are, respectively, the home and building automation systems which are perfectly integrated into Mylos aesthetic and functionalities. Both the ranges includes thermostats, rocker switches, actuators, blind actuators and dimmers.



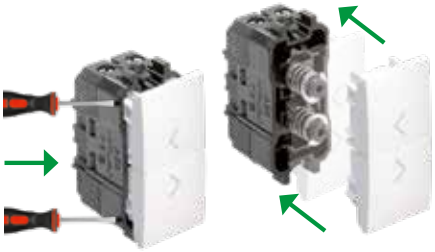
Access Control for hospitality
Based on transponder technology, and exploiting their flexibility and security, ABB's solution for access control is fully compatible with the KNX-standard Home & Building Automation System. The access control system, perfectly integrated into Mylos conventional wiring accessories range, is particularly suitable for hotel applications and allows construction of flexible systems with advanced functions to optimize the services provided to hotel guests.

Command devices features.

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Standard key cover composition



Key cover composition on 2CSY1017MY

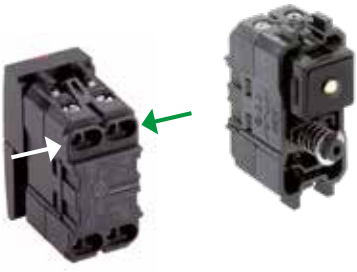


Key cover composition on 2CSY1027MY

LED illumination.

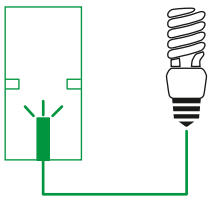


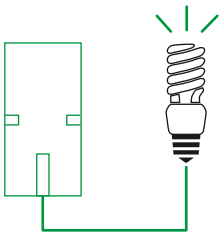
Plug-in LED illumination.
Conventional switches are lit by plug-in LEDs. There is no need for additional wiring because once the device is fixed in place, it is already ready to light up. In this way it is possible to implement night-time location signalling in a very easy manner.



Incorporated LED illumination.
Switches with incorporated LEDs provide maximum freedom for wiring the signalling LED through the presence of dedicated terminals.

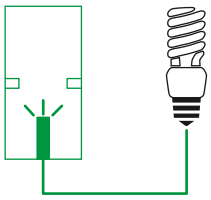
Night-time location signalling



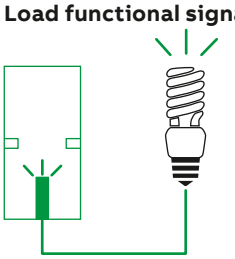


The 2CSY1632MY and 2CSY1633MY LEDs can be added to conventional switches (see page 45) for night-time location. The LED electrically connected in parallel with the ON operating mechanism: it is lit when the load is off (OFF command), and it turns off when the load is powered (ON command).

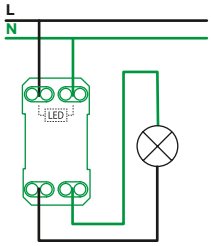
Location signalling (Always ON)



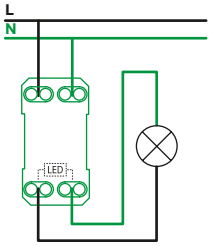
Load functional signalling



Switches with incorporated LED (see page 50) have preinstalled 250V~ LEDs and dedicated terminals for wiring. It is possible to implement any type of functional indication, also with LEDs at different voltages.



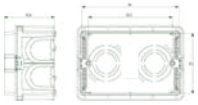
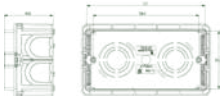
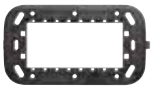
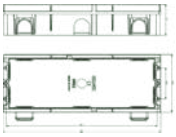
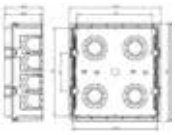
Wiring of double-pole switches 2CSY1006MC/S for Always ON signalling. The LED is built in.



Wiring of double-pole switches 2CSY1006FC/S for load functional indication. The LED is built in.

Installation details

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No. Modules	Boxes	Mounting frames	Modules	Cover plate
2 modules			 1 + 1 modules  2 modules	
3 modules			 1 + 1 + 1 modules  1 + 2 modules	
4 modules			 1 + 1 + 1 + 1 modules *	
7 modules			 1 + 1 + 1 + 1 + ... modules *	
4+4 modules			 1 + 1 + 1 + 1 modules * + 1 + 1 + 1 + 1 modules *	

*Other modularity configurations available

Mylos® – Conventional switches

Switches

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Product	Article-No.	Order-No.	Pack/Qty
	**Single-pole switch** 16A - 250V~		
	2CSY1001MC	2CSY216055R1001	
	**Single-pole switch** 16A - 250V~		
	2CSY1001MS	2CSY217395R1001	
	**Double-pole switch** 16A - 250V~		
	2CSY1002MC	2CSY216065R1002	
	**Double-pole switch** 16A - 250V~		
	2CSY1002MS	2CSY217405R1002	
	**Single pole switch** 16A - 250V~ two modules		
	2CSY1001XC	2CSY216075R1001	
	**Single pole switch** 16A - 250V~ two modules		
	2CSY1001XS	2CSY217415R1001	

Product	Article-No.	Order-No.	Pack/Qty
	**Double-pole switch** 16A - 250V~ with key control		
	2CSY1007MC	2CSY216355R1007	
	**Double-pole switch** 16A - 250V~ with key control		
	2CSY1007MS	2CSY217695R1007	
	**Double-pole switch** 16A - 250V~ with universal key control		
	2CSY1007MCU	2CSY220765R1007	
	**Double-pole switch** 16A - 250V~ with universal key control		
	2CSY1007MSU	2CSY220775R1007	

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Mylos®

Two-way switches – Intermediate switch – Change-over switches

Product	Article-No.	Order-No.	Pack/Qty
	**Single-pole two-way switch** 16A - 250V~		
	2CSY1003MC	2CSY216085R1003	
	**Single-pole two-way switch** 16A - 250V~		
	2CSY1003MS	2CSY217425R1003	
	**Single-pole two-way switch** 16A - 250V~ two modules		
	2CSY1003XC	2CSY216095R1003	
	**Single-pole two-way switch** 16A - 250V~ two modules		
	2CSY1003XS	2CSY217435R1003	

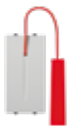
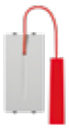
Product	Article-No.	Order-No.	Pack/Qty
	**Intermediate switch** 16A - 250V~		
	2CSY1010MC	2CSY216105R1010	
	**Intermediate switch** 16A - 250V~		
	2CSY1010MS	2CSY217445R1010	
	**Intermediate switch** 16A - 250V~ two modules		
	2CSY1010XC	2CSY216115R1010	
	**Intermediate switch** 16A - 250V~ two modules		
	2CSY1010XS	2CSY217455R1010	
	**Change-over switch** 10A - 250V~ three-position with central OFF		
	2CSY1011MC	2CSY216125R1011	
	**Change-over switch** 10A - 250V~ three-position with central OFF		
	2CSY1011MS	2CSY217465R1011	

Mylos® – Conventional switches

Push switches

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Product	Article-No.	Order-No.	Pack/Qty
	**Single-pole push switch** 16A - 250V~ normally open		
	2CSY1005MC	2CSY216135R1005	
	**Single-pole push switch** 16A - 250V~ normally open		
	2CSY1005MS	2CSY217475R1005	
	**Single-pole push switch** 16A - 250V~ normally closed		
	2CSY1016MC	2CSY216145R1016	
	**Single-pole push switch** 16A - 250V~ normally closed		
	2CSY1016MS	2CSY217485R1016	
	**Double single-pole push switch** 16A - 250V~ NO + NO		
	2CSY1017MC	2CSY216155R1017	
	**Double single-pole push switch** 16A - 250V~ NO + NO		
	2CSY1017MS	2CSY217495R1017	
	**Double single-pole push switch** 16A - 250V~ NO + NO, with interlock		
	2CSY1018MC	2CSY216165R1018	

Product	Article-No.	Order-No.	Pack/Qty
	**Double single-pole push switch** 16A - 250V~ NO + NO, with interlock		
	2CSY1018MS	2CSY217505R1018	
	**Double single-pole push switch** 16A - 250V~ NO+NO modular		
	2CSY1017MY	2CSY223225R1017	
	**Single-pole push switch with pull cord** 16A - 250V~, normally open. Supplied with 2.25 m cord		
	2CSY1020MC	2CSY216175R1020	
	**Single-pole push switch with pull cord** 16A - 250V~, normally open. Supplied with 2.25 m cord		
	2CSY1020MS	2CSY217515R1020	
	**Single-pole push switch with pull cord** 16A - 250V~, normally closed. Supplied with 2.25 m cord		
	2CSY1021MC	2CSY216185R1021	
	**Single-pole push switch with pull cord** 16A - 250V~, normally closed. Supplied with 2.25 m cord		
	2CSY1021MS	2CSY217525R1021	
	**Single-pole push switch** 16A - 250V~, 1 NO + 1 NC, with ON symbol		
	2CSY1022MC	2CSY216195R1022	

Mylos® – Conventional switches

Push switches

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Product	Article-No.	Order-No.	Pack/Qty
	**Single-pole push switch** 16A - 250V~, 1 NO + 1 NC, with ON symbol		
	2CSY1022MS	2CSY217535R1022	
	**Single-pole push switch** 16A - 250V~, 1 NO + 1 NC, with OFF symbol		
	2CSY1023MC	2CSY216205R1023	
	**Single-pole push switch** 16A - 250V~, 1 NO + 1 NC, with OFF symbol		
	2CSY1023MS	2CSY217545R1023	
	**Single-pole push switch** 16A - 250V~, normally open, with bell symbol		
	2CSY1028MC	2CSY216215R1028	
	**Single-pole push switch** 16A - 250V~, normally open, with bell symbol		
	2CSY1028MS	2CSY217555R1028	
	**Single-pole push switch** 16A - 250V~, normally open, with key symbol		
	2CSY1029MC	2CSY216225R1029	
	**Single-pole push switch** 16A - 250V~, normally open, with key symbol		
	2CSY1029MS	2CSY217565R1029	

Product	Article-No.	Order-No.	Pack/Qty
	**Single-pole push switch** 16A - 250V~, normally open, with stairlight symbol		
	2CSY1030MC	2CSY216235R1030	
	**Single-pole push switch** 16A - 250V~, normally open, with stairlight symbol		
	2CSY1030MS	2CSY217575R1030	
	**Double-pole push switch** 16A - 250V~, with key control		
	2CSY1008MC	2CSY216365R1008	
	**Double-pole push switch** 16A - 250V~, with key control		
	2CSY1008MS	2CSY217705R1008	
	**Double-pole push switch** 16A - 250V~, with universal key control		
	2CSY1008MCU	2CSY220785R1008	
	**Double-pole push switch** 16A - 250V~, with universal key control		
	2CSY1008MSU	2CSY220795R1008	

Mylos® – Conventional switches

Relay

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Product	Article-No.	Order-No.	Pack/Qty
	**Single-pole latching relay** with 230V~ coil, output contact 10A		
	2CSY1012MC	2CSY216375R1012	
	**Single-pole latching relay** with 230V~ coil, output contact 10A		
	2CSY1012MS	2CSY217715R1012	
	**Monostable relay** with 230V~ coil, output contact 10A		
	2CSY1014MC	2CSY216385R1014	
	**Monostable relay** with 230V~ coil, output contact 10A		
	2CSY1014MS	2CSY217725R1014	

Product	Article-No.	Order-No.	Pack/Qty

Mylos® – Screwless switches

Two-way switches – Intermediate switch

Product	Article-No.	Order-No.	Pack/Qty
	**Single-pole switch** 16A - 250V~ (incorporated LED)		
	2CSY1004FC	2CSY216245R1004	
	**Single-pole switch** 16A - 250V~ (incorporated LED)		
	2CSY1004FS	2CSY217585R1004	
	**Double-pole switch** 16A - 250V~, with incorporated LED (functional indication always ON)		
	2CSY1006MC	2CSY216255R1006	
	**Double-pole switch** 16A - 250V~, with incorporated LED (functional indication always ON)		
	2CSY1006MS	2CSY217595R1006	
	**Double-pole switch** 16A - 250V~, with incorporated LED (load functional indication)		
	2CSY1006FC	2CSY216265R1006	
	**Double-pole switch** 16A - 250V~, with incorporated LED (load functional indication)		
	2CSY1006FS	2CSY217605R1006	

Push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Single-pole push switch** 16A - 250V~, normally open (incorporated LED)		
	2CSY1015FC	2CSY216275R1015	
	**Single-pole push switch** 16A - 250V~, normally open (incorporated LED)		
	2CSY1015FS	2CSY217615R1015	
	**Single-pole push switch** 16A - 250V~, normally open with red diffuser (incorporated LED)		
	2CSY1024MC	2CSY216285R1024	
	**Single-pole push switch** 16A - 250V~, normally open, with red diffuser (incorporated LED)		
	2CSY1024MS	2CSY217625R1024	
	**Single-pole push switch** 16A - 250V~, normally open, with green diffuser (incorporated LED)		
	2CSY1025MC	2CSY216295R1025	
	**Single-pole push switch** 16A - 250V~, normally open, with green diffuser (incorporated LED)		
	2CSY1025MS	2CSY217635R1025	
	**Single-pole push switch** 16A - 250V~, normally open, with orange diffuser (incorporated LED)		
	2CSY1026MC	2CSY216305R1026	
	**Single-pole push** switch, 16A - 250V~, normally open, with orange diffuser (incorporated LED)		
	2CSY1026MS	2CSY217645R1026	

Mylos® – Switches with incorporated LED

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Product	Article-No.	Order-No.	Pack/Qty
	**Single-pole push switch** 16A - 250V~, normally open, with white diffuser (incorporated LED)		
	2CSY1027MC	2CSY216315R1027	
	**Single-pole push switch** 16A - 250V~, normally open, with white diffuser (incorporated LED)		
	2CSY1027MS	2CSY217655R1027	
	**Single-pole push switch with warning light** 16A - 250V~ normally open, modular (incorporated LED)		
	2CSY1027MY	2CSY223235R1027	

Product	Article-No.	Order-No.	Pack/Qty
	**Single-pole push switch** 16A - 250V~, normally open, with backlit label holder, 2 modules (incorporated LED)		
	2CSY1031MC	2CSY216325R1031	
	**Single-pole push switch** 16A - 250V~, normally open, with backlit label holder, 2 modules (incorporated LED)		
	2CSY1031MS	2CSY217665R1031	
	**Single-pole push switch** 16A - 250V~, normally open, with backlit label holder, 3 modules (incorporated LED)		
	2CSY1032MC	2CSY216335R1032	
	**Single-pole push switch** 16A - 250V~, normally open, with backlit label holder, 3 modules (incorporated LED)		
	2CSY1032MS	2CSY217675R1032	

Mylos® – Key covers

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1 module key covers

Product	Article-No.	Order-No.	Pack/Qty
	**Key cover 1 module** generic		
	2CSY1501MC	2CSY217335R1501	
	**Key cover 1 module** generic		
	2CSY1501MS	2CSY218495R1501	

1/2 modules key covers

Product	Article-No.	Order-No.	Pack/Qty
	Key cover 1/2 module generic		
	2CSY1511MC	2CSY217345R1511	
	**Key cover 1/2 module** generic		
	2CSY1511MS	2CSY218505R1511	
	**Key cover1/2 module** with red diffuser		
	2CSY1513MC	2CSY217355R1513	

Mylos® – Socket outlets

Italian standard socket outlets with safety shutters

Product	Article-No.	Order-No.	Pack/Qty
	**2P+E socket outlet** 10A - 250V~, P11 type		
	2CSY1101MC	2CSY216485R1101	
	**2P+E socket outlet** 10A - 250V~, P11 type		
	2CSY1101MS	2CSY217825R1101	
	**2P+E socket outlet** 10/16A - 250V~, P17/11 type		
	2CSY1103MC	2CSY216495R1103	
	**2P+E socket outlet** 10/16A - 250V~, P17/11 type		
	2CSY1103MS	2CSY217835R1103	
	**2P+E socket outlet** 16A - 250V~, P17/11 type, coloured for privileged circuits		
	2CSY1104MR	2CSY216505R1104	
	**2P+E socket outlet** 16A - 250V~, P17/11 type coloured for privileged circuits		
	2CSY1105MV	2CSY216515R1105	
	**2P+E socket outlet** 16A - 250V~, P17/11 type coloured for privileged circuits		
	2CSY1106MA	2CSY216525R1106	

Italian/German standard socket outlets with safety shutters and side/central earth

END OF LIFE

Product	Article-No.	Order-No.	Pack/Qty
	**2P+E socket outlet** 16A - 250V~, P30 type		
	2CSY1108MC	2CSY216535R1108	
	**2P+E socket outlet** 16A - 250V~, P30 type		
	2CSY1108MS	2CSY217845R1108	
	**2P+E socket outlets** 16A - 250V~, P30 type coloured for privileged circuits		
	2CSY1114MR	2CSY216585R1114	
	**2P+E socket outlets** 16A - 250V~, P30 type coloured for privileged circuits		
	2CSY1115MV	2CSY216595R1115	
	**2P+E socket outlets** 16A - 250V~, P30 type coloured for privileged circuits		
	2CSY1116MA	2CSY216605R1116	

Mylos® – Socket outlets

Italian/German standard socket outlets with safety shutters and side/central earth

Product	Article-No.	Order-No.	Pack/Qty
	**2P+E socket outlet** 16A - 250V~, P30/17 type		
	2CSY1109MC	2CSY216545R1109	
	**2P+E socket outlet** 16A - 250V~, P30/17 type		
	2CSY1109MS	2CSY217855R1109	
	**2P+E socket outlets** 16A - 250V~, P30/17 type coloured for privileged circuits		
	2CSY1110MR	2CSY216555R1110	
	**2P+E socket outlets** 16A - 250V~, P30/17 type coloured for privileged circuits		
	2CSY1111MV	2CSY216565R1111	
	**2P+E socket outlets** 16A - 250V~, P30/17 type coloured for privileged circuits		
	2CSY1112MA	2CSY216575R1112	

British socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**Socket outlet 2P+T 13A** UK standard		
	2CSY1134MC	2CSY234403R1134	
	**Socket outlet 2P+T 13A** UK standard		
	2CSY1134MS	2CSY235423R1134	
	**Socket outlet 2P+T 16A** UK standard		
	2CSY1164MC	2CSY234383R1164	
	**Socket outlet 2P+T 16A** UK standard		
	2CSY1164MS	2CSY235413R1164	

Mylos® – Socket outlets

American socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**2P socket outlet** 16A - Euro-American standard		
	2CSY1146MC	2CSY231655R1146	
	**2P socket outlet** 16A - Euro-American standard		
	2CSY1146MS	2CSY231665R1146	

French socket outlets

END OF LIFE

Product	Article-No.	Order-No.	Pack/Qty
	**2P+E socket outlet** 16A - French standard		
	2CSY1144MC	2CSY231425R1144	
	**2P+E socket outlet** 16A - French standard		
	2CSY1144MS	2CSY231435R1144	

Mylos® – Socket outlets

Special socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**2P shaver socket outlet with insulating transformer** Power supply 230V~ 50/60Hz Output voltage 125V~ (American standard 2P socket outlet) or 230V~ (2P socket outlet, P11 type)		
	2CSY1113MC	2CSY216615R1113	
	**2P shaver socket outlet with insulating transformer** power supply 230V~ 50/60Hz Output voltage 125V~ (American standard 2P socket outlet) or 230V~ (2P socket outlet, P11 type)		
	2CSY1113MS	2CSY217865R1113	
	**Flush-mounted 2.1A USB charging unit** with type A male connector, 230V power supply, ~ 50 / 60Hz, 5V DC output voltage		
	2CSY1162MS	2CSY234072R1162	

TV/SAT socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**Coaxial TV/SAT socket outlets** direct, male IEC connector, Ø 9.5 mm, DC		
	2CSY1118MC	2CSY216685R1118	
	**Coaxial TV/SAT socket outlets** direct, male IEC connector, Ø 9.5 mm, DC		
	2CSY1118MS	2CSY217935R1118	
	**Coaxial TV/SAT socket outlets** feedthrough, male IEC connector, Ø 9.5 mm, attenuation 7 dB		
	2CSY1132MC	2CSY216695R1132	
	**Coaxial TV/SAT socket outlets** feedthrough, male IEC connector, Ø 9.5 mm, attenuation 7 dB		
	2CSY1132MS	2CSY217945R1132	
	**Coaxial TV/SAT socket outlets** feedthrough, male IEC connector, Ø 9.5 mm, attenuation 10 dB		
	2CSY1136MC	2CSY216705R1136	
	**Coaxial TV/SAT socket outlets** feedthrough, male IEC connector, Ø 9.5 mm, attenuation 10 dB		
	2CSY1136MS	2CSY217955R1136	
	**Coaxial TV/SAT socket outlets** feedthrough, male IEC connector, Ø 9.5 mm, attenuation 14 dB		
	2CSY1137MC	2CSY216715R1137	
	**Coaxial TV/SAT socket outlets** feedthrough, male IEC connector, Ø 9.5 mm, attenuation 14 dB		
	2CSY1137MS	2CSY217965R1137	

Mylos® – Socket outlets

TV/SAT socket outlets

END OF LIFE

Product	Article-No.	Order-No.	Pack/Qty
	**Coaxial TV/SAT socket outlets** direct, female F connector, DC		
	2CSY1140MC	2CSY216725R1140	
	**Coaxial TV/SAT socket outlets** direct, female F connector, DC		
	2CSY1140MS	2CSY217975R1140	
	**Coaxial TV/SAT socket outlets** double demixed, feedthrough, male IEC connector, Ø 9.5 mm and female F connector		
	2CSY1133MC	2CSY216735R1133	
	**Coaxial TV/SAT socket outlets** double demixed, feedthrough, male IEC connector, Ø 9.5 mm and female F connector		
	2CSY1133MS	2CSY217985R1133	
	**Coaxial TV/SAT socket outlets** double demixed, feedthrough, male IEC connector Ø 9.5 mm and female F connector, attenuation 10 dB		
	2CSY1130MC	2CSY216755R1130	
	**Coaxial TV/SAT socket outlets** double demixed, feedthrough, male IEC connector Ø 9.5 mm and female F connector, attenuation 10 dB		
	2CSY1130MS	2CSY218005R1130	
	**Coaxial TV/SAT socket outlets** double demixed, feedthrough, male IEC connector Ø 9.5 mm and female F connector, attenuation 14 dB		
	2CSY1131MC	2CSY216765R1131	

Product	Article-No.	Order-No.	Pack/Qty
	**Coaxial TV/SAT socket outlets** double demixed, feedthrough, male IEC connector Ø 9.5 mm and female F connector, attenuation 14 dB		
	2CSY1131MS	2CSY218015R1131	
	**Terminal resistor** 75 Ohm		
	2CSE1610EL	2CSE265160R1610	

Mylos® – Socket outlets

Network and telephone socket outlets

END OF LIFE

Product	Article-No.	Order-No.	Pack/Qty
	**Telephone connector** RJ11		
	2CSY1121MC	2CSY216775R1121	
	**Telephone connector** RJ11		
	2CSY1121MS	2CSY218025R1121	
	**Telephone connector** RJ12		
	2CSY1122MC	2CSY216785R1122	
	**Telephone connector** RJ12		
	2CSY1122MS	2CSY218035R1122	
	**RJ45 connector** Cat.5e, UTP (unshielded)		
	2CSY1124MC	2CSY216795R1124	
	**RJ45 connector** Cat.5e, UTP (unshielded)		
	2CSY1124MS	2CSY218045R1124	

Product	Article-No.	Order-No.	Pack/Qty
	**RJ45 connector** Cat.6, UTP (unshielded)		
	2CSY1127MC	2CSY216815R1127	
	**RJ45 connector** Cat.6, UTP (unshielded)		
	2CSY1127MS	2CSY218065R1127	
	**RJ45 connector** Cat.6, FTP (shielded)		
	2CSY1128MC	2CSY216825R1128	
	**RJ45 connector** Cat.6, FTP (shielded)		
	2CSY1128MS	2CSY218075R1128	
	Adapter for RJ45 connector Keystone type		
	2CSY1135MC	2CSY216835R1135	
	**Adapter for RJ45 connector** Keystone type		
	2CSY1135MS	2CSY218085R1135	

Mylos® – Protection devices

Fuse holders and overvoltage limiters

Product	Article-No.	Order-No.	Pack/Qty
	**Fuse holder** Ø5x20 / Ø6.3x32, 16A		
	2CSY1301MC	2CSY216845R1301	
	**Fuse holder** Ø5x20 / Ø6.3x32, 16A		
	2CSY1301MS	2CSY218095R1301	

Miniature circuit-breakers – Residual current circuit-breakers

END OF LIFE

Product	Article-No.	Order-No.	Pack/Qty
	**Automatic MCB** 1P+N, C6, breaking capacity 1.5kA		
	2CSY1304MC	2CSY216865R1304	
	**Automatic MCB** 1P+N, C6, breaking capacity 1.5kA		
	2CSY1304MS	2CSY218115R1304	
	**Automatic MCB** 1P+N, C10, breaking capacity 3kA		
	2CSY1305MC	2CSY216875R1305	
	**Automatic MCB** 1P+N, C10, breaking capacity 3kA		
	2CSY1305MS	2CSY218125R1305	
	**Automatic MCB** 1P+N, C16, breaking capacity 3kA		
	2CSY1306MC	2CSY216885R1306	
	**Automatic MCB** 1P+N, C16, breaking capacity 3kA		
	2CSY1306MS	2CSY218135R1306	
	**Automatic RCD** 1P+N, C6 - 10 mA, breaking capacity 1.5kA		
	2CSY1307MC	2CSY216895R1307	

Mylos® – Protection devices

Miniature circuit-breakers -
Residual current circuit-breakers

Product	Article-No.	Order-No.	Pack/Qty
	**Automatic RCD** 1P+N, C6 - 10 mA, breaking capacity 1.5kA		
	2CSY1307MS	2CSY218145R1307	
	**Automatic RCD** 1P+N, C10 - 10 mA, breaking capacity 3kA		
	2CSY1308MC	2CSY216905R1308	
	**Automatic RCD** 1P+N, C10 - 10 mA, breaking capacity 3kA		
	2CSY1308MS	2CSY218155R1308	
	**Automatic RCD** 1P+N, C16 - 10 mA, breaking capacity 3kA		
	2CSY1309MC	2CSY216915R1309	
	**Automatic RCD** 1P+N, C16 - 10 mA, breaking capacity 3kA		
	2CSY1309MS	2CSY218165R1309	

Mylos® – Signalling devices

END OF LIFE

Warning lights

Product	Article-No.	Order-No.	Pack/Qty
	**Orange warning light** (incorporated LED)		
	2CSY1310MC	2CSY216955R1310	
	**Orange warning light** (incorporated LED)		
	2CSY1310MS	2CSY218205R1310	
	**White warning light** (incorporated LED)		
	2CSY1311MC	2CSY216965R1311	
	**White warning light** (incorporated LED)		
	2CSY1311MS	2CSY218215R1311	
	**Red warning light** (incorporated LED)		
	2CSY1312MC	2CSY216975R1312	
	**Red warning light** (incorporated LED)		
	2CSY1312MS	2CSY218225R1312	
	**Green warning light** (incorporated LED)		
	2CSY1313MC	2CSY216985R1313	
	**Green warning light** (incorporated LED)		
	2CSY1313MS	2CSY218235R1313	

Mylos® – Signalling devices

Bells and buzzers

END OF LIFE

Product	Article-No.	Order-No.	Pack/Qty
	**Electro-mechanical bell** 12V, 5VA power, 80dB sound intensity		
	2CSY1317MC	2CSY216995R1317	
	**Electro-mechanical bell** 12V, 5VA power, 80dB sound intensity		
	2CSY1317MS	2CSY218245R1317	
	**Electro-mechanical bell** 230V, 8VA power, 80dB sound intensity		
	2CSY1318MC	2CSY217005R1318	
	**Electro-mechanical bell** 230V, 8VA power, 80dB sound intensity		
	2CSY1318MS	2CSY218255R1318	
	**Electro-mechanical buzzer** 12V, 5VA power, 70dB sound intensity		
	2CSY1321MC	2CSY217015R1321	
	**Electro-mechanical buzzer** 12V, 5VA power, 70dB sound intensity		
	2CSY1321MS	2CSY218265R1321	
	**Electro-mechanical buzzer** 230V, 8VA power, 80dB sound intensity		
	2CSY1322MC	2CSY217025R1322	
	**Electro-mechanical buzzer** 230V, 8VA power, 80dB sound intensity		
	2CSY1322MS	2CSY218275R1322	

Product	Article-No.	Order-No.	Pack/Qty

Mylos® – Comfort and safety devices

Thermostats and time-programmable thermostats

Product	Article-No.	Order-No.	Pack/Qty
	**Electronic time-programmable thermostat** day/week programming, summer/winter function, with LCD display, 3 modules, powered by 1.5V AA battery		
	2CSY2201MC	2CSY217066R2201	
	**Electronic time-programmable thermostat** day/week programming, summer/winter function, with LCD display, 3 modules, powered by 1.5V AA battery		
	2CSY2201MS	2CSY218316R2201	
	**Electronic thermostat** summer/winter function with LCD display, 3 temperature levels can be set, 3 modules, powered by 1.5V AA battery		
	2CSY1202MC	2CSY217075R1202	
	**Electronic thermostat** summer/winter function with LCD display, 3 temperature levels can be set, 3 modules, powered by 1.5V AA battery		
	2CSY1202MS	2CSY218325R1202	
	**Electronic thermostat, summer/winter function** with LCD display, 3 temperature levels can be set, 2 modules 230V~ 50/60Hz power supply		
	2CSY1202XC	2CSY217095R1202	
	**Electronic thermostat, summer/winter function** with LCD display, 3 temperature levels can be set, 2 modules 230V~ 50/60Hz power supply		
	2CSY1202XS	2CSY218345R1202	

Dimmers

END OF LIFE

Product	Article-No.	Order-No.	Pack/Qty
	**Electronic dimmer** with rotary control for resistive loads 100-500W 230V~ 50/60Hz		
	2CSY1205MC	2CSY217125R1205	
	**Electronic dimmer** with rotary control for resistive loads 100-500W 230V~ 50/60Hz		
	2CSY1205MS	2CSY218375R1205	
	**Electronic dimmer** with push-button control for resistive and inductive loads 60-500W (60-500VA) 230V~ 50/60Hz		
	2CSY1206MC	2CSY217135R1206	
	**Electronic dimmer** with push-button control for resistive and inductive loads 60-500W (60-500VA) 230V~ 50/60Hz		
	2CSY1206MS	2CSY218385R1206	
	**Electronic dimmer** with rotary control and two-way switch for resistive loads 100-500W 230V~ 50/60Hz		
	2CSY1207MC	2CSY217145R1207	
	**Electronic dimmer** with rotary control and two-way switch for resistive loads 100-500W 230V~ 50/60Hz		
	2CSY1207MS	2CSY218395R1207	

Mylos® – Comfort and safety devices

Gas detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Natural gas electronic detector with acoustic and luminous signal** relay output, 1 NO/NC change-over contact 6A (AC1)/2A (AC15) - 250V~. Power supply 230V~ - 50Hz. Equipped with dedicated frame for installation on type 503 box		
	2CSY1210MC	2CSY217035R1210	
	**Natural gas electronic detector with acoustic and luminous signal** relay output, 1 NO/NC change-over contact 6A (AC1)/2A (AC15) - 250V~. Power supply 230V~ - 50Hz. Equipped with dedicated frame for installation on type 503 box		
	2CSY1210MS	2CSY218285R1210	
	**LPG gas electronic detector with acoustic and luminous signal** relay output, 1 NO/NC change-over contact 6A (AC1)/2A (AC15) - 250V~. Power supply 230V~ - 50Hz. Equipped with dedicated frame for installation on type 503 box		
	2CSY1211MC	2CSY217045R1211	
	**LPG gas electronic detector with acoustic and luminous signal** relay output, 1 NO/NC change-over contact 6A (AC1)/2A (AC15) - 250V~. Power supply 230V~ - 50Hz. Equipped with dedicated frame for installation on type 503 box		
	2CSY1211MS	2CSY218295R1211	

Emergency lighting

END OF LIFE

Product	Article-No.	Order-No.	Pack/Qty
	**Anti black-out removable light** 230V~ Charge reserve 4.5 h and recharge time 10-20 h. To be combined with 230V~ socket outlets		
	2CSY1214MC	2CSY217155R1214	
	**Anti black-out removable light** 230V~ Charge reserve 4.5 h and recharge time 10-20 h. To be combined with 230V~ socket outlets		
	2CSY1214MS	2CSY218405R1214	
	2M LED pluggable lamp for emergency lighting 2-module pluggable blackout lamp. Charge reserve up to 2h and recharge time 48h. Power supply 230V~ - 50/60Hz. It turns on to enlightening areas where it is installed if a blackout occurs. The lamp can be unplugged and used as a portable torch.		
	2CSY1236MY	2CSY218762R1236	
	1M anti black-out lamp LED light for emergency lighting for steplight. Charge reserve up to 2h and recharge time 48h. Power supply 230V~ - 50/60Hz.		
	2CSY1235MY	2CSY218902R1235	

Mylos® – Comfort and safety devices

Other devices

Product	Article-No.	Order-No.	Pack/Qty
	**IR motion detector** with twilight sensor and adjustment of operation time		
	2CSK1626MC	2CSY279081R1626	
	IR motion detector with twilight sensor and adjustment of operation time		
	2CSY1626MS	2CSY226581R1626	
	**IR receiver for remote control** 1-channel, 230V~		
	2CSY1217MC	2CSY217205R1217	
	**IR receiver for remote control** 1-channel, 230V~		
	2CSY1217MS	2CSY218445R1217	
	**Portable remote control** 6 channels / 3 bands		
	2CSE1217EL	2CSE264610R1217	
	**Universal badge switch with location light**		
	2CSY1426MC	2CSY217225R1426	
	**Universal badge switch with location light**		
	2CSY1426MS	2CSY218455R1426	

Card holder 3 Modules

END OF LIFE

Product	Article-No.	Order-No.	Pack/Qty
	**Card holder 3 Modules**		
	2CSY1427MC	2CSY228055R1427	
	**Card holder 3 Modules**		
	2CSY1427MS	2CSY228065R1427	

END OF LIFE

Mylos® – Installation devices, accessories

Blank covers

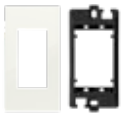
Product	Article-No.	Order-No.	Pack/Qty
	Blank cover 1 module		
	2CSY1601MC	2CSY217235R1601	
	**Blank cover** 1 module		
	2CSY1601MS	2CSY218465R1601	
	Blank cover, 1/2 module		
	2CSY1600MC	2CSY217245R1600	
	**Blank cover** 1/2 module		
	2CSY1600MS	2CSY218475R1600	
	**Blank cover** 1 module with hole for cable outlet, Ø 11.50 mm		
	2CSY1606MC	2CSY217255R1606	
	**Blank cover** 1 module with hole for cable outlet, Ø 11.50 mm		
	2CSY1606MS	2CSY218485R1606	

Mounting grids

Product	Article-No.	Order-No.	Pack/Qty
	**2-modules mounting grid** with screws for flush mounted boxes with 60mm or 56x56mm screw distance		
	2CSY1602MY	2CSY217275R1602	
	**2-modules mounting grid** (with claws) for round box (screw distance 60 mm)		
	2CSY1612MY	2CSY217285R1612	
	**3-modules mounting grid** for rectangular box (screw distance 83,5 mm)		
	2CSY1603MY	2CSY217295R1603	
	**4-modules mounting grid** for rectangular box (screw distance 108 mm)		
	2CSY1604MY	2CSY217305R1604	
	**7-modules mounting grid** for rectangular box (screw distance 100 mm)		
	2CSY1607MY	2CSY217315R1607	
	**4+4-modules mounting grid** for rectangular box (screw distance 108 mm)		
	2CSY1608MY	2CSY217325R1608	

Mylos® – Installation devices, accessories

1-module enclosures

Product	Article-No.	Order-No.	Pack/Qty
	**1-module frame and 1-module mounting grid**		
	2CSY3102MC	2CSY229385R3102	
	**1-module frame and 1-module mounting grid**		
	2CSY3102MS	2CSY229395R3102	
	**1-module frame with housing**		
	2CSY3101MC	2CSY228125R3101	
	**1-module frame with housing**		
	2CSY3101MS	2CSY228135R3101	

LEDs

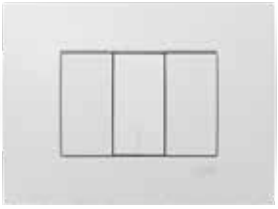
END OF LIFE

Product	Article-No.	Order-No.	Pack/Qty
	**LED** 250V~, white, to be used with illuminated switches for night-time location		
	2CSY1632MY	2CSY217265R1632	
	**LED** 250V~, white, to be used with two-way and intermediate switch for night-time location		
	2CSY1633MY	2CSY221265R1633	
	**LED** 9V, white, replacement for switches with incorporated LEDs		
	2CSY1609MY	2CSY221285R1609	
	**LED** 12V~, white, replacement for switches with incorporated LEDs		
	2CSY1622MY	2CSY221295R1622	
	**LED** 24V~, white, replacement for switches with incorporated LEDs		
	2CSY1624MY	2CSY221275R1624	

Mylos order codes

END OF LIFE

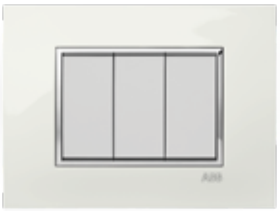
Mylos Etik - Reference standard: CEI 23-9 (EN 60669-1)





2 Modules	2CSY0201QEP	2CSY0200QEP
3 Modules	2CSY0301QEP	2CSY0300QEP
4 Modules	2CSY0401QEP	2CSY0400QEP
	White (square)	Black (square)

Mylos Lucent - Reference standard: CEI 23-9 (EN 60669-1)

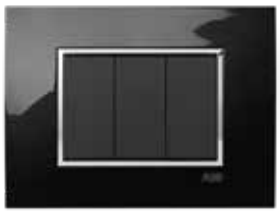


2 Modules	2CSY0201QGP
3 Modules	2CSY0301QGP
4 Modules	2CSY0401QGP
7 Modules	2CSY0701QGP
4+4 Modules	2CSY0801QGP
	Alabaster white (square)

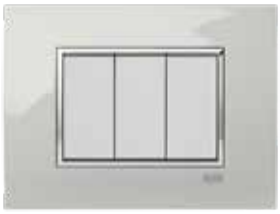
Mylos order codes

END OF LIFE

Mylos Lucent - Reference standard: CEI 23-9 (EN 60669-1)



2 Modules	2CSY0200QLP
3 Modules	2CSY0300QLP
4 Modules	2CSY0400QLP
7 Modules	2CSY0700QLP
4+4 Modules	2CSY0800QLP
	Brilliant black (square)



2 Modules	2CSY0203QLP
3 Modules	2CSY0303QLP
4 Modules	2CSY0403QLP
7 Modules	2CSY0703QLP
4+4 Modules	2CSY0803QLP
	Ice (square)

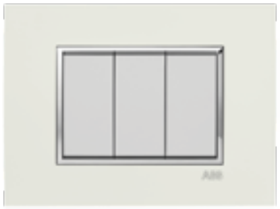
Mylos order codes

END OF LIFE

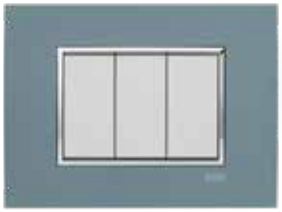
Mylos Velvet - Reference standard: CEI 23-9 (EN 60669-1)



2 Modules	2CSY0225QSP
3 Modules	2CSY0325QSP
4 Modules	2CSY0425QSP
7 Modules	2CSY0725QSP
4+4 Modules	2CSY0825QSP
	Graphite (square)



2 Modules	2CSY0224QMP
3 Modules	2CSY0324QMP
4 Modules	2CSY0424QMP
7 Modules	2CSY0724QMP
4+4 Modules	2CSY0824QMP
	White (square)



2 Modules	2CSY0222QSP
3 Modules	2CSY0322QSP
4 Modules	2CSY0422QSP
7 Modules	2CSY0722QSP
4+4 Modules	2CSY0822QSP
	Cold grey (square)

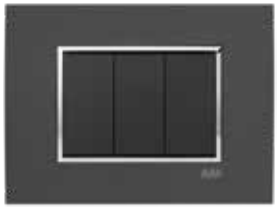
Mylos order codes

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Mylos Velvet- Reference standard: CEI 23-9 (EN 60669-1)



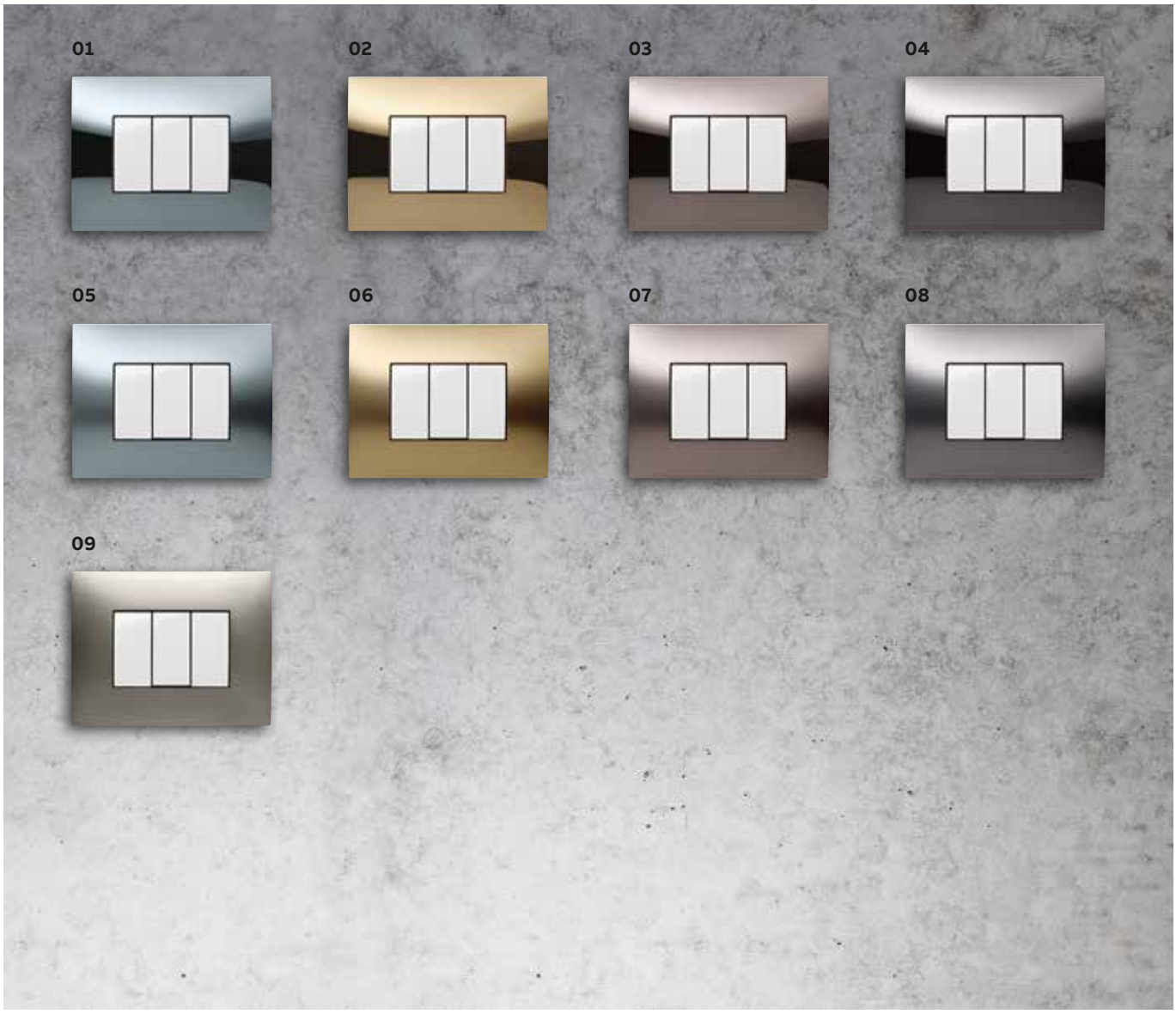
2 Modules	2CSY0223QSP
3 Modules	2CSY0323QSP
4 Modules	2CSY0423QSP
7 Modules	2CSY0723QSP
4+4 Modules	2CSY0823QSP
	Black (square)



2 Modules	2CSY0226QSP
3 Modules	2CSY0326QSP
4 Modules	2CSY0426QSP
7 Modules	2CSY0726QSP
4+4 Modules	2CSY0826QSP
	Anthracite (square)

Chiara
All the voices of nature

Experiences are more intense when senses are fully engaged. Chiara range focuses on the visual sense with a colour palette inspired by nature, the fruits of the land and by its elements. All this give born to distinct and unique finishes, ideal to be integrated into a variety of environments and to welcome people who live there.



CHIARA

01 Glossy Chrome
02 Glossy Gold
03 Glossy Bronze
04 Glossy Metal Black
05 Satin Chrome
06 Satin Gold
07 Satin Bronze
08 Satin Metal Black
09 Brushed Steel

Chiara

All the voices of nature



CHIARA

10 White
11 Pastel Yellow
12 Stone
13 Pastel Green
14 Volcano
15 Sand
16 Pastel Blue
17 Pastel Orange
18 Fire Red
19 Chiara antibacterial

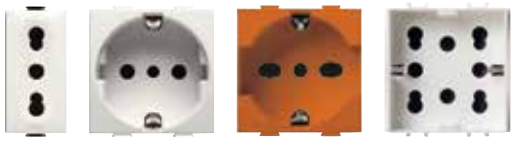
Chiara
Selected functions



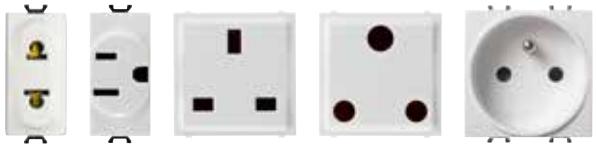
Command devices.
Circuit-breakers, push-buttons, switches, inverters, relays and commutator devices in different versions for configuring functions and control points in the most flexible and suitable manner for any home or office environment. All command devices, except for relays and switches, can be illuminated.



Protection devices.
These devices trigger in case of overloads, short-circuits and other phenomena that pose a risk to the safety of people and which impair the proper functioning of connected loads; their role is a direct downstream protection without interfering with the power supply of other points of the electrical installation.



Socket outlets.
10-16A 2P+T socket outlets for 250V lines compliant with Italian and German standards, with safety shutters and side/central ground. P17/11, P30 and P30/17 socket outlets are available also in coloured version for privileged circuits. The Side innovative socket outlet is also available, combining a German standard-based and two Italian bivalent socket outlets.



The range also includes the main socket outlets based on other different standards: EUR-American and American with grounding, for 127V lines; 13A e 16A English and 2P+T French for 250V lines.



Special socket outlets
Shaver socket outlet, 2.1A USB charger and connectors for telephony applications and data transmission, available in different versions that meet the most used and advanced wiring international standards.



Signalling devices.
Warning lights to indicate the operating status of the connected devices, bells and buzzers.

Chiara
Selected functions



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Safety and comfort equipment.
To optimize the operation of the electrical devices and make the rooms more liveable, the range includes devices for programming, adjustment and timing, such as Chrono thermostats, electronic thermostats, dimmers and IR presence detectors with twilight threshold. Extractable anti-blackout lamps and emergency lamps are available with wide operating autonomy.



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Components for installation.
Blank cover for unused modules and 2, 3, 4, 7 and 7+7 module mounting grids for the installation of Equipment and components inside flush-mounting round and rectangular boxes.

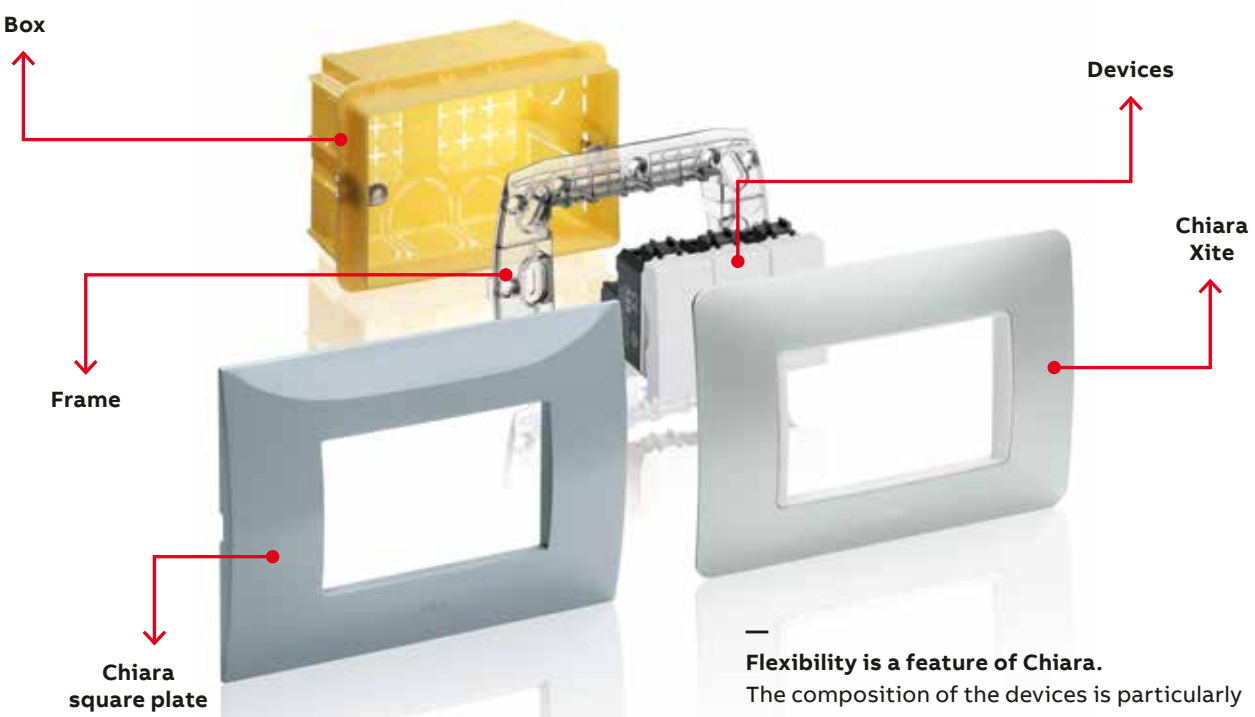


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Other installation solutions.
Products and solutions for secure installation (IP55 covers and IP40/IP55 boxes) are available, as well as adapters for installation on DIN rail or Undernet retractable turret. The self-supporting frames are convenient and flexible solutions for any specific installation solution.

Chiara

Installation overview.



Flexibility is a feature of Chiara.
The composition of the devices is particularly simple: the mounting greed is made of semi-transparent plastic material for easy mounting in the flush-mounted boxes.
On the same mounting greed you can choose either to mount Chiara or Chiara Xite plates.

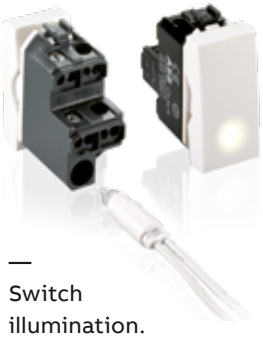
Quick installation of devices.



Specifications of screws and terminals. The composition of the devices is particularly simple: the frame is made from semi-transparent plastic material for easy mounting in the flush-mounted boxes.



- Frontal installation of the switches on the frame
- Modularity of the switches: 22 mm



Switch illumination.

Chiara

Installation on concrete walls.



No. Modules	Screw distance	Compatible box
2 (with claws)	-	ABB 00 050
2 (with screws)	60 mm	ABB 00 050
3	83.5 mm	ABB 1SL006A00
4	108 mm	ABB 00 053
7	100 mm	ABB 1SL0064A00

Note: For further information on ABB boxes for concrete walls please refer to the catalog 1SLC001001D0905 - Insulating Enclosures and Installation Materials.

Protected installation with IP55 wall-mounted enclosures.



IP40 wall-mounted enclosure



IP55 wall-mounted enclosure

No. Modules	IP40 enclosure	IP55 enclosure
1 (on 2-module enclosure)	2CSK2140CH	2CSK2155CH
2	2CSK2240CH	2CSK2255CH
3	2CSK2340CH	2CSK2355CH
4	2CSK2440CH	2CSK2455CH

The IP55 cover enclosures allow the direct assembly of devices without the aid of mounting grids.
The devices are inserted from the rear. See technical details on page 5/57. For further information on IP40/IP55 wall-mounted enclosures, please refer to the catalog 1SLC001001D0905 - Insulating Enclosures and Installation Materials.

Protected installation with IP55 cover.



IP55 wall-mounted cover

No. Modules	IP55 cover
2 (on a square or round box with screws, center distance 60mm)	2CSK3255CH
3	2CSK3355CH

Note: The IP55 covers provide a self-supporting solution that allows direct assembly of devices without the aid of mounting grids.
The devices are inserted from the rear.

Chiara – Switches

Switches

Product	Article-No.	Order-No.	Pack/Qty
	**Single-pole switch** 16A - 250V~		
	2CSK1001CH	2CSK200005R1001	
	**Double-pole switch** 16A - 250V~		
	2CSK1002CH	2CSK200015R1002	
	**Single-pole switch** 16A - 250V~, 2 modules		
	2CSK1004CH	2CSK200025R1004	
	**Double-pole switch** 16A - 250V~, with key control		
	2CSK1006CH	2CSK215740R1006	
	**Double-pole switch** 16A - 250V~, with universal key control		
	2CSK1006CHU	2CSK221395R1006	

Note: The lightable control devices are supplied without lamp

Two-way switches

Product	Article-No.	Order-No.	Pack/Qty
	**Single-pole two-way switch** 16A - 250V~		
	2CSK1003CH	2CSK200035R1003	
	**Single-pole two-way switch** 16A - 250V~, 2 modules		
	2CSK1007CH	2CSK200045R1007	

Intermediate switches

	**Intermediate switch** 16A - 250V~		
	2CSK1010CH	2CSK200055R1010	
	**Intermediate switch** 16A - 250V~, 2 modules		
	2CSK1008CH	2CSK200065R1008	

Change-over switch

	**Change-over switch** 10A - 250V~, 3 positions, with central OFF		
	2CSK1011CH	2CSK200075R1011	

Relays

	**Single-pole relay with 230V~ coil** 10A output contact		
	2CSK1012CH	2CSK200255R1012	
	**4 sequence change-over switch relay** with 230V~ coil, 2 10A output contacts		
	2CSK1014CH	2CSK200265R1014	

Chiara – Switches

Push Switches

Product	Article-No.	Order-No.	Pack/Qty
	**Single-pole push switches NO** 16A - 250V~		
	2CSK1005CH	2CSK200085R1005	
	**Single-pole push switches NC** 16A - 250V~		
	2CSK1016CH	2CSK200095R1016	
	**One pole push-button** 16AX, 2 Modules		
	2CSK1015CH	2CSK228545R1015	
	**Double single-pole push switches NO+NO** 16A - 250V~		
	2CSK1017CH	2CSK200195R1017	
	**Double single-pole push switches NO+NO** 16A - 250V~, with interlock		
	2CSK1018CH	2CSK200185R1018	
	**Single-pole push switches 1NO and 1NC** 16A - 250V~, with ON symbol		
	2CSK1022CH	2CSK200175R1022	
	**Single-pole push switches 1NO and 1NC** 16A - 250V~, with OFF symbol		
	2CSK1023CH	2CSK200165R1023	

Product	Article-No.	Order-No.	Pack/Qty
	**Single-pole push switches NO** 16A - 250V~, with cord pull, with 2.25 m cord		
	2CSK1020CH	2CSK200145R1020	
	**Single-pole push switches NC** 16A - 250V~, with cord pull, with 2.25 m cord		
	2CSK1021CH	2CSK200155R1021	
	**Double-pole push switches NO** 16A - 250V~, with key control		
	2CSK1009CH	2CSK221405R1009	
	**Double-pole push switches NO** 16A - 250V~, with universal key control		
	2CSK1009CHU	2CSK221415R1009	

Chiara – Switches

Special push switch

Product	Article-No.	Order-No.	Pack/Qty
	**Single-pole push switches NO** 16A - 250V~, with BELL symbol		
	2CSK1028CH	2CSK200105R1028	
	**Single-pole push switches NO** 16A - 250V~, with KEY symbol		
	2CSK1029CH	2CSK200225R1029	
	**Single-pole push switches NO** 16A - 250V~, with STAIR LIGHT symbol		
	2CSK1030CH	2CSK200115R1030	
	**Single-pole push switches NO** 16A - 250V~, with red diffuser		
	2CSK1024CH	2CSK200215R1024	
	**Single-pole push switches NO** 16A -250V~, with red diffuser and DO NOT DISTURB symbol		
	2CSK1034CH	2CSK231175R1034	
	**Single-pole push switches NO** x 16A - 250V~, with green diffuser		
	2CSK1025CH	2CSK200205R1025	
	**Single-pole push switches NO** 16A - 250V~, with green diffuser and MAKE UP ROOM symbol		
	2CSK1035CH	2CSK231185R1035	

Product	Article-No.	Order-No.	Pack/Qty
	**Single-pole push switches NO** 16A - 250V~, with orange diffuser		
	2CSK1026CH	2CSK200135R1026	
	**Single-pole push switches NO** 16A - 250V~, with white diffuser, 1 module		
	2CSK1027CH	2CSK200125R1027	
	**Single-pole push switches NO** 16A - 250V~, with backlit label holder plate, 2 modules		
	2CSK1031CH	2CSK200235R1031	
	**Single-pole push switches NO** 16A - 250V~, with backlit label holder plate, 3 modules		
	2CSK1032CH	2CSK203145R1032	

Chiara – Socket outlets

Italian standard socket outlets with safety shutters

Product	Article-No.	Order-No.	Pack/Qty
	**2P+E socket outlet** 10A - 250V~, P11 type		
	2CSK1101C	2CSK200275R1101	
	**2P+E socket outlet** 10/16A - 250V~, P17/P11 type		
	2CSK1103CH	2CSK200295R1103	
	**2P+E socket outlets** 10/16A - 250V~, P17/P11 type, coloured for privileged circuits		
	2CSK1104CH	2CSK200325R1104	
	**2P+E socket outlets** 10/16A - 250V~, P17/P11 type, coloured for privileged circuits		
	2CSK1105CH	2CSK200345R1105	
	**2P+E socket outlets** 10/16A - 250V~, P17/P11 type, coloured for privileged circuits		
	2CSK1106CH	2CSK200335R1106	

Italian/German standard socket outlets with safety shutters

Product	Article-No.	Order-No.	Pack/Qty
	**2P+E socket outlet** 16A - 250V~, P30 type		
	2CSK1108CH	2CSK200305R1108	
	**2P+E socket outlets** 16A - 250V~, P30 type, coloured for privileged circuits		
	2CSK1114CH	2CSK200355R1114	
	**2P+E socket outlets** 16A - 250V~, P30 type, coloured for privileged circuits		
	2CSK1115CH	2CSK200365R1115	
	**2P+E socket outlets** 16A - 250V~, P30 type, coloured for privileged circuits		
	2CSK1116CH	2CSK200375R1116	
	**2P+E socket outlet** 16A - 250V~, P30/17 type		
	2CSK1109CH	2CSK200315R1109	
	**2P+E socket outlets** 16A - 250V~, P30/17 type, coloured for privileged circuits		
	2CSK1110CH	2CSK200385R1110	
	**2P+E socket outlets** 16A - 250V~, P30/17 type, coloured for privileged circuits		
	2CSK1111CH	2CSK200405R1111	

Chiara – Socket outlets

Italian/German standard socket outlets with safety shutters

Product	Article-No.	Order-No.	Pack/Qty
	**2P+E socket outlets** 16A - 250V~, P30/17 type, coloured for privileged circuits		
	2CSK1112CH	2CSK200395R1112	

French socket outlet

	**2P+E socket outlet** 16A - French standard		
	2CSK1144CH	2CSK229365R1144	

British socket outlets

	**2P+E socket outlet** 13A - UK standard		
	2CSK1134CH	2CSK228805R1134	
	**2P+E socket outlet** 16A - UK standard		
	2CSK1164CH	2CSK228815R1164	

American and Euro-American socket outlets

	**2P+E socket outlet** 15A - 127V~ - US standard		
	2CSK1145CH	2CSK228335R1145	
	**2P socket outlet** 16A - Euro-American standard		
	2CSK1146CH	2CSK229355R1146	
	**Double 2P+E socket outlet** 15A - 127V~ - US standard		
	2CSK1147CH	2CSK226182R1147	

Interlocked socket outlets with automatic MCB and automatic RCD

Product	Article-No.	Order-No.	Pack/Qty
	**2P+E socket outlet** 16A - 250V, interlocked with MCB, P17/11		
	2CSK1324CH	2CSK206475R1324	
	**2P+E socket outlet** 16A - 250V, interlocked with MCB, P30		
	2CSK1325CH	2CSK206485R1325	
	**2P+E socket outlet** 16A - 250V, with RCD 10mA, P17/11		
	2CSK1326CH	2CSK206495R1326	

Special socket outlets

	**2P shaver socket with insulating transformer** Power supply 230V~ - 50/60Hz Output voltage 125V~ (American standard 2P socket) or 230V~ (2P socket outlet, P11 type)		
	2CSK1113CH	2CSK200415R1113	
	**Flush-mounted USB charging unit** max 2.1A with type A male connector, 230V~ power supply, 50 / 60Hz, 5V DC output voltage		
	2CSK1162CH	2CSK235403R1162	
	**Side socket outlet** (1 Schuko + 2 Italian socket outlets), 1 x 2P+E 16A + 2 x 2P+E 10/16A		
	2CSK1193CH	2CSK231295R1193	

Chiara – Socket outlets

TV/SAT socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**TV coaxial socket outlet** direct, male IEC connector ø 9.5 mm, insulated type		
	2CSK1117CH	2CSK200495R1117	
	**TV/SAT coaxial socket outlet** direct, male IEC connector ø 9.5 mm, with feedthrough of direct current		
	2CSK1118CH	2CSK200505R1118	
	**TV/SAT coaxial socket outlet** feedthrough, male IEC connector ø 9.5 mm, attenuation 7dB		
	2CSK1132CH	2CSK203155R1132	
	**TV/SAT coaxial socket outlet** feedthrough, male IEC connector ø 9.5 mm, attenuation 10dB		
	2CSK1136CH	2CSK203175R1136	
	**TV/SAT coaxial socket outlet** feedthrough, male IEC connector ø 9.5 mm, attenuation 14dB		
	2CSK1137CH	2CSK204095R1137	
	**TV/SAT coaxial socket outlet** feedthrough, male IEC connector ø 9.5 mm, attenuation 18dB		
	2CSK1138CH	2CSK203185R1138	
	**TV/SAT coaxial socket outlet** direct, female F connector, with feed-through of direct current		
	2CSK1119CH	2CSK200515R1119	

Product	Article-No.	Order-No.	Pack/Qty
	**Double demixed TV/SAT coaxial socket outlet** direct, male IEC connector ø 9.5 mm and female F connector		
	2CSK1133CH	2CSK203165R1133	
	**Double demixed TV/SAT coaxial socket outlet** feedthrough, male IEC connector ø 9.5 mm and female F connector, attenuation 7dB		
	2CSK1120CH	2CSK200525R1120	
	**Double demixed TV/SAT coaxial socket outlet** feedthrough, male IEC connector ø 9.5 mm and female F connector, attenuation 10dB		
	2CSK1130CH	2CSK200535R1130	
	**Double demixed TV/SAT coaxial socket outlet** feedthrough, male IEC connector ø 9.5 mm and female F connector, attenuation 14dB		
	2CSK1131CH	2CSK200545R1131	
	**Double demixed TV/SAT coaxial socket outlet** feedthrough, male IEC connector ø 9.5 mm and female F connector, attenuation 18dB		
	2CSK1139CH	2CSK203195R1139	

Chiara – Socket outlets, Protection devices

Network and telephone socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**RJ11 telephone connector**		
	2CSK1121CH	2CSK200425R1121	
	**RJ12 telephone connector**		
	2CSK1122CH	2CSK200435R1122	
	**RJ45 connector** Cat. 5e, UTP (unshielded)		
	2CSK1124CH	2CSK200445R1124	
	**RJ45 connector** Cat. 5e, FTP (shielded)		
	2CSK1125CH	2CSK200455R1125	
	**RJ45 connector** Cat. 6, UTP (unshielded)		
	2CSK1127CH	2CSK200475R1127	
	**RJ45 connector** Cat. 6, FTP (shielded)		
	2CSK1128CH	2CSK200465R1128	
	**Adapter for RJ45 connector** Keystone type		
	2CSK1135CH	2CSK200485R1135	

Fuse holders, overvoltage limiters

Product	Article-No.	Order-No.	Pack/Qty
	**Fuse holder** for fuses Ø5x20 / Ø6.3x32 mm, max. 16A		
	2CSK1301CH	2CSK200635R1301	
	**Overvoltage limiter** 75J, 230V~		
	2CSK1315CH	2CSK221425R1315	
	**Spare protection for overvoltage limiter**		
	2CSY1302MY	2CSY221255R1302	

Miniature circuit-breakers and Residual current circuit-breakers

	**Automatic MCB** 1P+N, C6, breaking capacity 1.5kA		
	2CSK1304CH	2CSK200655R1304	
	**Automatic MCB** 1P+N, C10, breaking capacity 3kA		
	2CSK1305CH	2CSK200665R1305	
	**Automatic MCB** 1P+N, C16, breaking capacity 3kA		
	2CSK1306CH	2CSK200675R1306	
	**Automatic RCD** 1P+N, C6 - 10 mA, breaking capacity 1.5kA		
	2CSK1307CH	2CSK200685R1307	

Chiara – Protection devices, Signalling devices

Miniature circuit-breakers and Residual current circuit-breakers

Product	Article-No.	Order-No.	Pack/Qty
	**Automatic RCD** 1P+N, C10 - 10 mA, breaking capacity 3kA		
	2CSK1308CH	2CSK200695R1308	
	**Automatic RCD** 1P+N, C16 - 10 mA, breaking capacity 3kA		
	2CSK1309CH	2CSK200705R1309	
	**Automatic RCD** 1P+N, C6 - 30 mA, breaking capacity 1.5kA		
	2CSK1328CH	2CSK213425R1328	
	**Automatic RCD** 1P+N, C10 - 30 mA, breaking capacity 3kA		
	2CSK1329CH	2CSK213435R1329	
	**Automatic RCD** 1P+N, C16 - 30 mA, breaking capacity 3kA		
	2CSK1330CH	2CSK213445R1330	

Light signals

Product	Article-No.	Order-No.	Pack/Qty
	**Orange warning light** (supplied without lamp)		
	2CSK1310CH	2CSK200605R1310	
	**White warning light** (supplied without lamp)		
	2CSK1311CH	2CSK200625R1311	
	**Red warning light** (supplied without lamp)		
	2CSK1312CH	2CSK200595R1312	
	**Green warning light** (supplied without lamp)		
	2CSK1313CH	2CSK200615R1313	

Chiara – Signalling devices, Safety and comfort devices

Bells and buzzers

Product	Article-No.	Order-No.	Pack/Qty
	**Electro-mechanical bell** 12V, power 5VA, sound intensity 80dB		
	2CSK1317CH	2CSK200555R1317	
	**Electro-mechanical bell** 230V, power 8VA, sound intensity 80dB		
	2CSK1318CH	2CSK200565R1318	
	**Electro-mechanical buzzer** 12V, power 5VA, sound intensity 70dB		
	2CSK1321CH	2CSK200575R1321	
	**Electro-mechanical buzzer** 230V, power 8VA, sound intensity 70dB		
	2CSK1322CH	2CSK200585R1322	

Time-programmed thermostats and thermostats

Product	Article-No.	Order-No.	Pack/Qty
	**Summer/winter electronic time-programmed thermostat with 4 temperature levels** relay output, 1 NO/NC change-over contact 8A (AC1)/2A (AC15) - Power supply 230V~ 50/60Hz		
	2CSK2201CH	2CSK200765R2201	
	**Summer/winter electronic thermostat** relay output, 1 NO contact 8A (AC1)/2A (AC15) - Power supply 230V~ 50/60Hz		
	2CSK1202CH	2CSK200755R1202	

Dimmer

	**Electronic dimmer** with rotary control for resistive loads 100-500W, 230V~ 50/60Hz		
	2CSK1205CH	2CSK200715R1205	
	**Electronic dimmer** with rotary control and with two-way switch for resistive loads 100-500W, 230V~ - 50/60Hz		
	2CSK1204CH	2CSK200735R1204	
	**Electronic dimmer** with pushbutton control for resistive and inductive loads 60-500W, (60-500VA) 230V~ - 50/60Hz		
	2CSK1207CH	2CSK200725R1207	

Chiara – Safety and comfort devices

Gas detectors

Product	Article-No.	Order-No.	Pack/Qty
	**Electronic natural gas detector** with acoustic and light signal, relay output, 1 NO/NC change-over contact 6A (AC1)/2A (AC15) - 250V~. Power supply 230V~ - 50Hz. Equipped with dedicated frame for installation on type 503 box		
	2CSK1210CH	2CSK225295R1210	
	**Electronic LPG gas detector** with acoustic and light signal, relay output, 1 NO/NC change-over contact 6A (AC1)/2A (AC15) - 250V~. Power supply 230V~ - 50Hz. Equipped with dedicated frame for installation on type 503 box		
	2CSK1211CH	2CSK225305R1211	

Emergency lighting

	**Removable anti-blackout light, 230V~** Charge reserve 4.5 h and recharge time 10-20h. To be combined with 230V~ socket outlets; particularly recommended for codes 2CSK1108CH and 2CSK1109CH		
	2CSK1214CH	2CSK203205R1214	
	**LED light for emergency lighting or steplight** Charge reserve up to 2h and recharge time 48h. Power supply 230V~ - 50/60Hz.		
	2CSK1235CH	2CSk218932R1235	
	**2-module pluggable blackout lamp** Charge reserve up to 2h and recharge time 48h. Power supply 230V~ - 50/60Hz. It turns on to enlightening areas where it is installed if a blackout occurs. The lamp can be unplugged and used as a portable torch.		
	2CSK1236CH	2CSK218782R1236	
	**Universal badge switch with location light** Relay output with NO contact 10A (AC1). Power supply 230V~ 50/60Hz		
	2CSK1426CH	2CSK223155R1426	
	**IR motion detector** with twilight sensor for control and adjustment of the operation time of lighting devices. Relay output NO 5A (AC1)/2A (AC15) - 250V~. Power supply 230V~ - 50/60Hz		
	2CSK1226CH	2CSK235321R1226	

Other devices

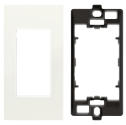
Product	Article-No.	Order-No.	Pack/Qty
	**Universal badge switch** 3M		
	2CSK1427CH	2CSK228275R1427	

Chiara – Components for installation

Blank covers

Product	Article-No.	Order-No.	Pack/Qty
	Blank cover 1 module		
	2CSK1601CH	2CSK200785R1601	
	**Blank cover** 1 module, with hole for cable outlet ø 12.5mm		
	2CSK1606CH	2CSK200795R1606	

1-module enclosures

	**1-module frame and 1-module mounting grid**		
	2CSK3102CH	2CSK229375R3102	
	**1-module frame with housing**		
	2CSK3101CH	2CSK228345R3101	

Mounting grids

Product	Article-No.	Order-No.	Pack/Qty
	**2-modules mounting grid** with latching claws for round box		
	2CSK1612CH	2CSK203245R1612	
	**2-modules mounting grid** with screws for rectangular or round box with screws (center distance 60mm)		
	2CSK1602CH	2CSK200815R1602	
	**3-modules mounting grid** for rectangular box (center distance 83.5 mm)		
	2CSK1603CH	2CSK200825R1603	
	**4-modules mounting grid** for rectangular box (center distance 108 mm)		
	2CSK1604CH	2CSK200835R1604	
	**7-modules mounting grid** for rectangular box (center distance 100 mm)		
	2CSK1607CH	2CSK200845R1607	
	**7+7-modules mounting grid**		
	2CSK1614CH	2CSK228265R1614	

Accessories

	**LED lamp** 230V, cable length 100 mm. To be used in combination with illuminable switches		
	2CSK1616CH	2CSK259192R1616	

Chiara

Other installation solutions

Self-supporting frames



No. modules	2	3	4
Product type	2CSK1621CH	2CSK1631CH	2CSK1641CH
Packing/ No. items	1/12	1/12	1/12
	Module self-supporting frame, white RAL9016		



No. modules	2	3	4
Product type	2CSK1622CH	2CSK1632CH	2CSK1642CH
Packing/ No. items	1/12	1/12	1/12
	Module self-supporting frame, grey RAL7035		



No. modules	2	3	4
Product type	2CSK1623CH	2CSK1633CH	2CSK1643CH
Packing/ No. items	1/12	1/12	1/12
	Module self-supporting frame, slate grey RAL7021		

Chiara

Other installation solutions

Self-supporting frames



No. modules	2	3	4
Product type	2CSK1624CH	2CSK1634CH	2CSK1644CH
Packing/ No. items	1/12	1/12	1/12
	Module self-supporting frame, brown RAL8014		

Undernet towers and adapters



Description	Code	Packing/ No. items
Undernet tower, 16 contact blocks with hollow cover - 300x310	10900	1/1
Undernet tower, 16 contact blocks with stainless steel cover - 300x310	10901	1/1
Undernet tower, 10 contact blocks with hollow cover - 300x235	10902	1/1
Undernet tower, 10 contact blocks with stainless steel cover - 300x235	10903	1/1



Description	Code	Packing/ No. items
5 contact blocks support for Undernet tower 10900 - 10901	2CSK1625CH	1/12
6 contact blocks support for Undernet tower 10902 - 10903	2CSK1626CH	1/12

DIN-rail adapter 1-2-3 modules



Description	Code	Packing/ No. items
DIN-rail adapter for 1-2-3 modules, versionable	2CSK1608CH	1/6

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Wall-mounted enclosures and flush-mounted IP55 covers

IP40 wall-mounted enclosures



Product type	2CSK2140CH	2CSK2240CH	2CSK2340CH	2CSK2440CH
Packing / No. items	10/40	10/40	10/30	10/20
	1-space enclosure, IP40	2-space enclosure, IP40	3-space enclosure, IP40	4-space enclosure, IP40

IP55 wall-mounted enclosures



Product type	2CSK2155CH	2CSK2255CH	2CSK2355CH	2CSK2455CH
Packing / No. items	10/40	10/40	8/24	8/16
	1-space enclosure, IP55	2-space enclosure, IP55	3-space enclosure, IP55	4-space enclosure, IP55

IP55 flush-mounted covers

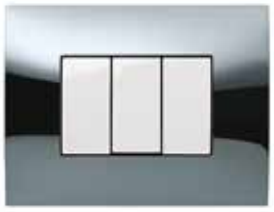
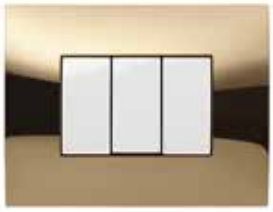


Product type	2CSK3255CH	2CSK3355CH
Packing / No. items	1/40	1/40
	IP 55 2-module frame, white	IP 55 3-module frame, white

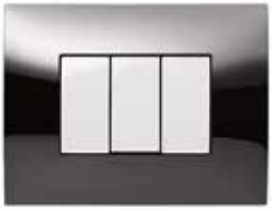
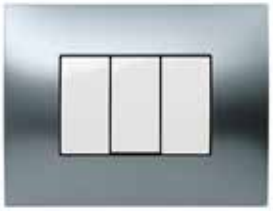
Chiara

Order codes

Metallic frames with glossy and satin finish - Reference standard: CEI 23-9 (EN 60669-1)


2 Modules	2CSK0215CH	2CSK0253CH	2CSK0251CH
3 Modules	2CSK0315CH	2CSK0353CH	2CSK0351CH
4 Modules	2CSK0415CH	2CSK0453CH	2CSK0451CH
7 Modules	2CSK0715CH	2CSK0753CH	2CSK0751CH
	Glossy Chrome	Glossy Gold	Glossy Bronze


2 Modules	2CSK0217CH	2CSK0216CH	2CSK0254CH
3 Modules	2CSK0317CH	2CSK0316CH	2CSK0354CH
4 Modules	2CSK0417CH	2CSK0416CH	2CSK0454CH
7 Modules	2CSK0717CH	2CSK0716CH	2CSK0754CH
	Glossy Metal Black	Satin Chrome	Satin Gold



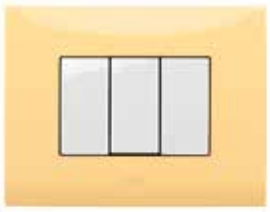


2 Modules	2CSK0252CH	2CSK0218CH	2CSK0219CH
3 Modules	2CSK0352CH	2CSK0318CH	2CSK0319CH
4 Modules	2CSK0452CH	2CSK0418CH	2CSK0419CH
7 Modules	2CSK0752CH	2CSK0718CH	2CSK0719CH
	Satin Bronze	Satin Metal Black	Brushed Steel

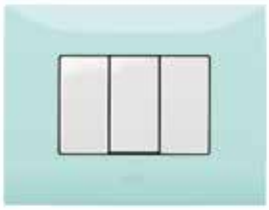
Chiara

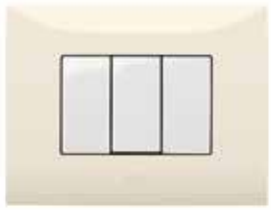
Order codes

Technopolymer frames - Reference standard: CEI 23-9 (EN 60669-1)

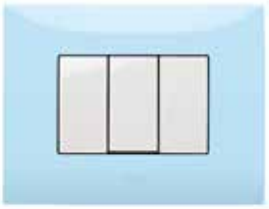
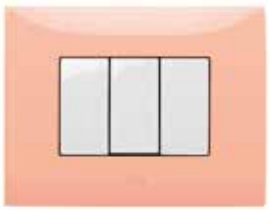




2 Modules	2CSK0201CH	2CSK0211CH	2CSK0203CH
3 Modules	2CSK0301CH	2CSK0311CH	2CSK0303CH
4 Modules	2CSK0401CH	2CSK0411CH	2CSK0403CH
7 Modules	2CSK0701CH	2CSK0711CH	2CSK0703CH
7+7 Modules	2CSK1401CH	-	-
1 Module central	2CSK207501R0300	-	-
2 Modules separated	2CSK207491R0310	-	-
3 Modules blind	2CSK207481R0320	-	-
	White	Pastel Yellow	Stone





2 Modules	2CSK0213CH	2CSK0204CH	2CSK0202CH
3 Modules	2CSK0313CH	2CSK0304CH	2CSK0302CH
4 Modules	2CSK0413CH	2CSK0404CH	2CSK0402CH
7 Modules	2CSK0713CH	2CSK0704CH	2CSK0702CH
	Pastel Green	Volcano	Sand


2 Modules	2CSK0214CH	2CSK0212CH	2CSK0205CH
3 Modules	2CSK0314CH	2CSK0312CH	2CSK0305CH
4 Modules	2CSK0414CH	2CSK0412CH	2CSK0405CH
7 Modules	2CSK0714CH	2CSK0712CH	2CSK0705CH
	Pastel Blue	Pastel Orange	Fire Red

Chiara Antibacterial

The new solution for healthcare environments

Hospitals, clinics, laboratories and healthcare environments must guarantee maximum hygiene with a high level of safety and protection against bacterial growth for patients, visitors and medical staff. To enhance cleaner healthcare environments, ABB introduces Chiara Antibacterial, a sub-range of conventional wiring accessories of the Chiara switch assortment with antibacterial additive and technopolymer material (ABS/PC)







3 Modules	2CSK218722R0301
4 Modules	2CSK218722R0401
1 Module central	2CSK218702R0001
2 Modules separated	2CSK218692R0002
Blind	2CSK207272R0003

Light switches and socket outlets

Chiara Antibacterial

Product	Article-No.	Order-No.	Pack/Qty
	**Pull-cord push button 1P** 16A, NO, antibacterial		
	2CSK1020CH	2CSK207262R1020	
	**1 way switch 1P** 16AX, antibacterial		
	2CSK1001CH	2CSK207242R1001	
	**2 way switch 1P** 16AX, antibacterial		
	2CSK1003CH	2CSK207222R1003	
	**Intermediate switch 1P** 16AX, antibacterial		
	2CSK1010CH	2CSK226732R1010	
	Blank module 1M antibacterial		
	2CSK1601CH	2CSK226692R1601	
	**Socket outlet 2P+E** 16A, P30/P17 antibacterial		
	2CSK1109CH	2CSK226652R1109	
	**Socket outlet 2P+E** 10/16A, red antibacterial		
	2CSK1104CH	2CSK226642R1104	

Product	Article-No.	Order-No.	Pack/Qty
	**Socket outlet 2P+E** 16A, P30/P17 red antibacterial		
	2CSK1110CH	2CSK229932R1110	
	**Socket outlet 2P+E** 16A, P17/P11 antibacterial		
	2CSK1103CH	2CSK229922R1103	
	**TV socket outlet** direct, male, antibacterial		
	2CSK1118CH	2CSK229902R1118	

Unno
A cocktail of colors

You'll find it hard to choose! The great variety of colours in the Unno range is the key to creating a great home, full of life and harmony. Design, technology, respecting the environment, versatility and beauty. Unno makes its mark via a wide range of tones and colours that can create a personalised room or home. Designed to meet your decorative and design expectations, Unno is the winning choice.



Unno

Selected functions

01



02



03



04



05



06



07



08



09



10



11



12



13



14



01 1-gang, 1-way single pole switch
02 1-gang, 2-way single pole switch with lamp
03 1-gang, 1-way push switch with bell symbol
04 1-gang, 1-way double pole 32A switch
05 Buzzer
06 Universal rotary dimmer
07 RJ11 telephone outlet
08 Type F TV outlet
09 RJ45 Cat. 5E data outlet
10 Cable outlet
11 Nema simple socket outlet
12 Nema duplex socket outlet
13 Brazilian 10A socket outlet
14 Brazilian 20A socket outlet

01

04

07

10



02



05



08



11



03



06

09



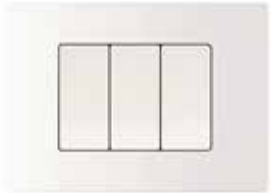
Frames 4" × 2"
01 Blank frame, 80 × 115 mm
02 Frame 1 module vertical position, 80 × 115 mm
03 Frame 1 module, 80 × 115 mm
04 Frame 2 modules, 80 × 115 mm
05 Frame 1+1 modules, 80 × 115 mm
06 Frame 3 modules, 80 × 115 mm

Frames 4" × 4"
07 Blank frame, 128 × 115 mm
08 Frame 1+1 modules, 128 × 115 mm
09 Frame 2+2 modules, 128 × 115 mm
10 Frame 1+1+1+1 modules, 128 × 115 mm
11 Frame 3+3 modules, 128 × 115 mm

For more information about light switch ranges visit ABB global web sites.

Unno

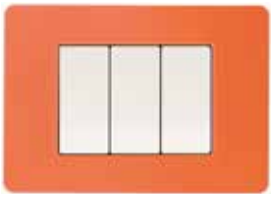
Frames

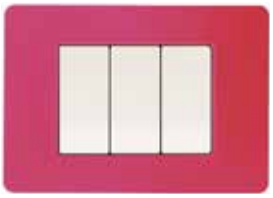

BL

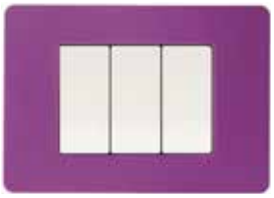

MS


CT

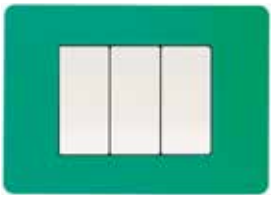
BL White
MS Mustard
CT Chocolate

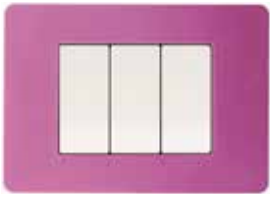

MD


AR


LL

MD Tangerine
AR Blueberry
LL Lilac


MN


CM


AZ

MN Mint
CM Caramel
AZ Blue

Mounting plates


BL


NG


GP


MS


CT

BL White
NG Black
GP Gray
MS Mustard
CT Chocolate


MD


AR


LL


MN


CM


AZ

MD Tangerine
AR Blueberry
LL Lilac
MN Mint
CM Caramel
AZ Blue

Quality within everyone’s reach

The Unno range with its colours, straight lines and its simple design brings personality to your home, while offering a unique and contemporary look.



We offer an elegant range, incorporating high technology while respecting the environment. We now know it is possible to align beauty, functionality, quality and sustainability, while placing great design within reach of all.

Unno is design

Its straight lines and simplicity provide an elegant and contemporary look; added to the colours that adapt to all the latest trends. With different side finishes, Unno is the perfect combination, bringing life to covers and switches, and ultimately, to your home.

Unno is technology

ABB's experience over the years can now be seen in the new mechanisms: manufactured using raw materials within the guidelines proposed by international environmental protection organisations such as (RoHS, IEC, INMETRO), the Unno switches are the most ideal for new energy saving light bulbs, incorporating childproofing in the 2P + T connections in all their products.

Unno is versatile

Only ABB has been able to create a range that comes with all the benefits of the highest quality, adapted to market needs in relation to both design as well as ease of installation and safety. Unno is versatility that matches your style.

Unno is versatility that matches your style.

All its uses
Maximum quality and guarantee



New mechanism design

More functional and simple, allowing safer operation and preventing direct and indirect contact. 46 mm x 22 mm cover with 27 mm mechanism height.

Robust mechanism design

Contact function via indirect swaying and forced shut-off. This system offers robustness and durability, increasing its useful life.



Advanced connection

The direct contact connection system prevents the cable from moving, keeping it in place despite the temperature, movement or passing of time affecting the connection.



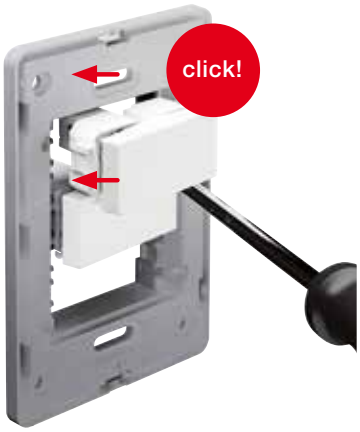
Safety

All the products in the Unno range come with childproofing measures ensuring everybody's safety, including children under the most adverse conditions, complying with ABNT NBR 60884-1:2004 + decree 085 regulations: 03-04-2006 and NBR 14136:2002.



Reinforced mounting

With exclusive mounting system that prevents it from becoming displaced or sunken. Manufactured from polycarbonate, a hard wearing and rigid material.



Rapid connection

Extraction and front setting mechanism. Two installation options that ensure mechanisms are perfectly aligned:
1. Mounting assembly and subsequent connection
2. Connection and subsequent mounting assembly

Visibility

White LED lighting offer higher luminosity. Energy savings.
Up to 80% longer lasting.



Large cover sizes

Allows the correction of possible imperfections when installing wall switches.





Unno

Switches

Product	Article-No.	Order-No.	Pack/Qty
	Switch 1-gang, 1-way, SP - 1 M Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screw terminals. Optional: locator LED lamp N1191 BL.		
White	**N1101 BL**	2CLA110100N1103	30
White/Black	**N1101 BN**	2CLA110100N1803	30
	Switch 1-gang, 2-way, SP - 1 M Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screw terminals. Optional: locator LED lamp N1191 BL.		
White	**N1102 BL**	2CLA110200N1103	30
White/Black	**N1102 BN**	2CLA110200N1803	30
	Switch 1-gang, intermediate, SP - 1 M Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screw terminals.		
White	**N1110 BL**	2CLA111000N1103	30
White/Black	**N1110 BN**	2CLA111000N1803	30
	Switch 1-gang, 1-way, DP - 1 M Rated voltage: 110 - 250 Vac. Rated current: 20 AX. Rated power iLED (230/127 Vac): 250/150 W. Screw terminals.		
White	**N1101.7 BL**	2CLA110170N1103	5
White/Black	**N1101.7 BN**	2CLA110170N1803	5
	Switch 1-gang, 1-way, SP - 1 M Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screw terminals. Included: locator LED lamp N1191 BL.		
White	**N1101.3 BL**	2CLA110130N1103	30
White/Black	**N1101.3 BN**	2CLA110130N1803	30
	Switch 1-gang, 2-way, SP - 1 M Rated voltage: 110 - 250 Vac. Rated current: 16 AX. Rated power iLED (230/127 Vac): 200/100 W. Screw terminals. Included: locator LED lamp N1191 BL.		
White	**N1102.3 BL**	2CLA110230N1103	30
White/Black	**N1102.3 BN**	2CLA110230N1803	30
	Locator & indicator lamp Suitable for all the switches and push buttons. White light. Rated voltage: 110 - 250 Vac. Rear connection with 2 cables. Rated current: <0,2 mA. Specially designed for CFL and LED lamps.		
White	**N1191 BL**	2CLA119100N1003	10

Pushbuttons

Product	Article-No.	Order-No.	Pack/Qty
	Push-button, SP with bell symbol - 1M Rated voltage: 110 - 250 Vac. Rated current: 16 A. Screw terminals. Optional: locator LED lamp N1191 BL.		
White	**N1104 BL**	2CLA110400N1103	30
White/Black	**N1104 BN**	2CLA110400N1803	30
	Push-button, SP without symbol - 1M Rated voltage: 110 - 250 Vac. Rated current: 16 A. Screw terminals. Optional: locator LED lamp N1191 BL.		
White	**N1104.7 BL**	2CLA110470N1103	30
White/Black	**N1104.7 BN**	2CLA110470N1803	30

Blind control

	Push-button blind control 1-gang - 1M Rated voltage: 110 - 250 Vac. Rated current: 6A. Miniswitch. Direct control		
White	**N1144 BL**	2CLA114400N1103	10
	Switch blind control 1-gang - 1M Rated voltage: 110 - 250 Vac. Rated current: 6A. Miniswitch. Direct control.		
White	**N1144.1 BL**	2CLA114410N1103	10

Unno

Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**Schuko socket outlet - 2M** Rated voltage: 250 Vac. Rated current: 16A. Type F: 2P + E. Shuttered for child safety. Screw terminals.		
White	**N1288 BL**	2CLA128800N1103	10
Red	**N1288 RJ**	2CLA128800N7003	10
	**American earthed socket outlet - 1M** Rated voltage: 125 Vac. Rated current: 15 A. Type B: 2P + E / NEMA 5-15R. Shuttered for child safety. Screw terminals.		
White	**N1128 BL**	2CLA112800N1103	30
	**American earthed duplex socket outlet - 3M** Rated voltage: 125 Vac. Rated current: 15 A. Type B: 2P + E / NEMA 5-15R. Duplex outlet. Shuttered for child safety. Screw terminals.		
White	**N1328 BL**	2CLA132800N1103	20
	**Euro-American unearthed socket outlet - 1M** Rated voltage: 125 / 250 Vac. Rated current: 15 / 16A. Type A+C: 2P (non-earthed) / NEMA 1-15R. Screw terminals.		
White	**N1135 BL**	2CLA113500N1103	30
	**Euro-American earthed socket outlet - 1M** Rated voltage: 110 - 250 Vac. Rated current: 15 / 16 A. Type B+C: 2P + E / NEMA 5-15R. Shuttered for child safety. Screw terminals.		
White	**N1138 BL**	2CLA113800N1103	30
	**Euro-American earthed duplex socket outlet - 3M** Rated voltage: 110 - 250 Vac. Rated current: 15 / 16 A. Type B+C: 2P + E / NEMA 5-15R. Shuttered for child safety. Screw terminals.		
White	**N1338 BL**	2CLA133800N1103	20

Product	Article-No.	Order-No.	Pack/Qty
	**Brazilian 10A socket outlet - 1M** Rated voltage: 110 - 250 Vac. Rated current: 10 A. Type N: 2P + E. Shuttered for child safety. Screw terminals.		
White	**N1136 BL**	2CLA113600N1104S	20
Red	**N1136 RJ**	2CLA113620N7004S	20
	**Brazilian 20A socket outlet - 1M** Rated voltage: 110 - 250 Vac. Rated current: 20 A. Type N: 2P + E. Shuttered for child safety. Screw terminals.		
White	**N1136.2 BL**	2CLA113620N1104S	20
Red	**N1136.2 RJ**	2CLA113620N7004S	20

USB chargers

	**USB charger 750mA, 1-gang - 1M** Input voltage: 100 - 240 Vac ±10% ; 50/60 Hz. Input current: 0,12 A (with maximum load). Output voltage: 5 Vdc ±5%. Output current: 750 mA. Power consuption in stand-by: <= 0,3W@230Vac. Energy efficiency: >= 66%. Operating Temperature: 0 °C to 45 °C.		
White	**N1185 BL**	2CLA118500N1103	1
	**USB charger 2.000mA, 1-gang - 1M** Input voltage: 100 - 230 Vac ±10%; 50/60 Hz. Input current: 0,20 A (with maximum load). Output voltage: 5 Vdc ±5%. Output current: 2.000 mA. Power consumption in stand-by: <= 0,01W@230Vac. Energy efficiency: >= 79%. Operating temperature: 0 °C to 45 °C.		
White	**N1185.2 BL**	2CLA118520N1103	1

Unno

Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**TV terminal outlet F-type - 1M** Single TV outlet - Dead-end. F type. For 75Ω impedance coaxial cable. Frequency range: 0 - 2.000 Mhz. Working voltage: 250 VRMS max. Dielectric withstanding voltage: 500 VRMS min. Contact resistance: - 5 mΩ max. (center contact). - 2 mΩ max. (outer contact). Insulator resistance: 1.000 MΩ min.		
White	**N1150 BL**	2CLA115000N1103	10
	**TV terminal outlet M-type - 1M** Single TV outlet - Dead-end. M type - 9,52 mm. male. For 75 Ω impedance coaxial cable. Frequency range: 5 - 862 Mhz. Output loss: 0,5 dB.		
White	**N1150.7 BL**	2CLA115070N1103	10
	**TV/SAT terminal outlet - 1M** Single TV outlet - dead-end. - TV: M type - 9,52 mm. male. - SAT: F type - female. For 75 Ω impedance coaxial cable. Frequency range (TV / SAT): 5 - 862 Mhz / 950 - 2.400 MHz. Output loss (TV / SAT): 1 dB / 1 dB. DC path (Vdc / mA / Tono): 34 max. / 500 max. / 22kHz - DiSEqC.		
White	**N1151.7 BL**	2CLA115170N1103	10

Telephone outlets

Product	Article-No.	Order-No.	Pack/Qty
	**Telephone outlet RJ11 - 1M** RJ11 type connector. 4 contacts. Suitable for 2 or 4 contacts jack. Screw terminals.		
White	**N1117 BL**	2CLA111700N1103	10

Data outlets

	**Data outlet RJ45 Cat.5e UTP** RJ45 type connector. Cat.5e UTP. In compliance with ANSI/TIA/EIA 568B.2, ISO/IEC11801 & EN50173. Universal TIA/EIA 568A and 568B labeling. Housing: ABS UL-94-0. Durability: 750 cycles min. (ISO/IEC 11801, IEC 60603-7-4). IDC: PC UL94V-0, Accept 22-26AWG solid wire. Contact: RJ45 8P8C, 3~50 micro-inch gold plating over nickel plated on contact area. Tool-less wiring.		
White	**N1118.5 BL**	2CLA111850N1103	10
	**Data outlet RJ45 Cat.6 UTP** RJ45 type connector. Cat.6 UTP. In compliance with ANSI/TIA/EIA 568B.2, ISO/IEC11801 & EN50173. Universal TIA/EIA 568A and 568B labeling. Housing: ABS UL-94-0. Durability: 750 cycles min. (ISO/IEC 11801, IEC 60603-7-4). IDC: PC UL94V-0, Accept 22-26AWG solid wire. Contact: RJ45 8P8C, 3~50 micro-inch gold plating over nickel plated on contact area. Tool-less wiring.		
White	**N1118.6 BL**	2CLA111860N1103	10

Unno

VDI outlets

Product	Article-No.	Order-No.	Pack/Qty
	**2x RCA connection unit - 1M** Front: 2x RCA connectors (Red / White). Rear: screw terminals (4 wires).		
White	**N1155.2 BL**	2CLA115520N1103	1
	**3x RCA connection unit - 1M** Front: 3x RCA connectors (Red / White / Yellow). Rear: screw terminals (6 wires).		
White	**N1155.3 BL**	2CLA115530N1103	1
	**Mini-Jack connection unit - 1M** Front: 1x Mini-Jack connector (3,5 mm. stereo audio jack). Rear: screw terminals (3/4 wires).		
White	**N1155.4 BL**	2CLA115540N1103	1
	**VGA connection unit - 1M** Front: 1x VGA connector (DE-15 connector). Rear: screw terminals (15 wires).		
White	**N1155.5 BL**	2CLA115550N1103	1
	**HDMI connection unit - 1M** Front: 1x HDMI connector (Type A connector). Rear: screwless terminals (20 wires).		
White	**N1155.6 BL**	2CLA115560N1103	1
	**HDMI female-female connection unit - 1M** Front: 1x HDMI connector (Type A connector). Rear: 1x HDMI connector (Type A connector) fitted at 90º angle.		
White	**N1155.7 BL**	2CLA115570N1103	1

Product	Article-No.	Order-No.	Pack/Qty
	**USB connection unit - 1M** Front: 1x USB 2.0 connector (Type A connector). Rear: screwless terminals (5 wires).		
White	**N1155.8 BL**	2CLA115580N1103	1
	**USB female-female connection unit - 1M** Front: 1x USB 2.0 connector (Type A connector). Rear: 1x USB 2.0 connector (Type A connector) fitted at 90º angle.		
White	**N1155.9 BL**	2CLA115590N1103	1
	HDMI female-female connection unit with cable - 1M Front: 1x HDMI connector (Type A connector). Rear: 1x HDMI connector (Type A connector) with 20 cm cable extension.		
White	**N1155.71 BL**	2CLA115571N1103	1
	USB female-female connection unit with cable - 1M Front: 1x HDMI connector (Type A connector). Rear: 1x HDMI connector (Type A connector) with 20 cm cable extension.		
White	**N1155.91 BL**	2CLA115591N1103	1

Unno

Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	Rotatory/push dimmer 127V - 1M Rated voltage: 110 - 127 Vac. Incandescent lamps: 50 - 500 W. Halogen lamps: 50 - 500 W. Overload and short-circuit protection with fuse (Not resetable).		
White	**N1160 BL**	2CLA116000N1103	10
	Rotatory/push dimmer 220V - 2M Rated voltage: 220 - 230 Vac. Incandescent lamps: 50 - 700 W. Halogen lamps: 50 - 700 W. Overload and short-circuit protection with fuse (Not resetable).		
White	**N1160.1 BL**	2CLA116010N1103	10
	Rotatory LED Triac dimmer - 1M Rated voltage: 110 - 230 Vac. Frequency: 50/60 Hz Power min. load: 3 W Power max. load (127 / 230 Vac): - LEDi: 50 / 100 W (max. 10 lamps). - LEDi with LC transformer: 50 / 100 W (max. 10 lamps). - Halogen with LC transformer: 100 / 200 W. - Incandescent lamps: 150 / 250 W. 2 wire connection. OFF position		
White	**N1160.2 BL**	2CLA116020N1103	1
	LED/Universal rotatory dimmer 220V - 1M Rated voltage: 230 Vac ± 10%. Frequency: 50-60 Hz. Power (min./max load): - LEDi (trailing-edge lamps): 4 / 250 W/VA. - LEDi (leading-edge lamps): 4 / 60 W/VA.* - LV LEDi with transformer type C: 4 / 250 W/VA. - LV LEDi with transformer type LC: 4 / 60 W/VA.* - LV halogen with transformer type C: 4 / 250 W/VA. - LV halogen with transformer type LC: 4 / 250 W/VA. - Incandescent lamps: 4 / 250 W/VA. - Halogen lamps: 4 / 250 W/VA. *Max. 10 lamps. Load selection 2 or 3 wire connection. OFF position		
White	**N1160.3 BL**	2CLA116030N1103	1
	LED/Universal rotatory dimmer 110V - 1M Rated voltage: 127 Vac ± 10%. Frequency: 60 Hz. Power (min./max load): - LEDi (trailing-edge lamps): 4 / 125 W/VA. - LEDi (leading-edge lamps): 4 / 30 W/VA.* - LV LEDi with transformer type C: 4 / 125 W/VA. - LV LEDi with transformer type LC: 4 / 30 W/VA.* - LV halogen with transformer type C: 4 / 125 W/VA. - LV halogen with transformer type LC: 4 / 125 W/VA. - Incandescent lamps: 4 / 125 W/VA. - Halogen lamps: 4 / 125 W/VA. *Max. 10 lamps. Load selection 2 or 3 wire connection. OFF position.		
White	**N1160.8 BL**	2CLA116080N1103	1

Buzzer

Product	Article-No.	Order-No.	Pack/Qty
	Buzzer - 1M Rated voltage: 110 - 230 Vac. Sound level at 1 meter: 75dB. Adjustable volume with screwdriver.		
White	**N1119 BL**	2CLA111900N1103	10

Blank covers / Cable outlets

Product	Article-No.	Order-No.	Pack/Qty
	Cable outlet - 1M Includes a clamp to fix the cable.		
White	**N1107 BL**	2CLA110700N1103	10
	Blank cover - 1M		
White	**N1100 BL**	2CLA110000N1103	20

Unno

Frames for 3M (4"×2"), 4M, 7M and 4"×4" boxes

Frames with ABB logo

01

02



03



04

05

06



07



08



09



10



1 to 3 module cover frames for 3 module or 4"×2" box vertical installation habits (American)

01 Frame blank for 3 modules box
02 Frame 1 module for 3 modules box
03 Frame 1 + 1 modules for 3 modules box
04 Frame 2 modules for 3 modules box
05 Frame 3 modules in 3 modules box

3+3 module cover frames for 4"×4" box installation habit (American and Eastern Asia)

06 Frame blank for 4"×4" box
07 Frame 1 + 1 modules for 4"×4" box
08 Frame 2 + 2 modules for 4"×4" box
09 Frame 1 + 1 + 1 + 1 modules for 4"×4" box
10 Frame 3 + 3 modules for 4"×4" box

1 to 7 module cover frames for 3, 4 and 7 module box horizontal installation habit (Italian)

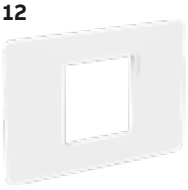
11 Frame 1 module for 3 modules box
12 Frame 2 modules for 3 modules box
13 Frame 3 modules in 3 modules box
14 Frame 4 modules for 4 modules box
15 Frame 7 modules in 7 modules box

Frames with Niessen logo

11



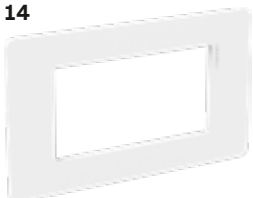
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13



14



15



Unno

Frames with ABB logo

Size	Modularity	Article-No.	Order-No.	Pack/Qty
		Frames - 3 and 3+3 modules Material: polycarbonate Size (height × width): - 3M: 115 × 80 mm. - 3+3M: 115 × 128 mm. Mounting plate codes: - For 3M box (83.5 mm screw distance): N1373.9. - For 3+3M box (4"×4" type box): N1673.9.		
White				
3M		**N1370.1 BL**	2CLA137010N1104S	20
3M	2	**N1372.1 BL**	2CLA137210N1104S	20
3M	1+1	**N1372.2 BL**	2CLA137220N1104S	20
3M	3	**N1373.1 BL**	2CLA137310N1104S	20
3M		**N1670 BL**	2CLA167000N1104S	10
3+3M	1+1	**N1671.1 BL**	2CLA167110N1104S	10
3+3M	1	**N1371.1 BL**	2CLA137110N1104S	20
3+3M	2+Ł2	**N1672.2 BL**	2CLA167220N1104S	10
3+3M	1+1+1+1	**N1672.4 BL**	2CLA167240N1104S	10
3+3M	3+3	**N1673.6 BL**	2CLA167360N1104S	10

Frames with Niessen logo

Size	Modularity	Article-No.	Order-No.	Pack/Qty
		Frames - 3, 4 and 7 modules Material: polycarbonate Size (height x width): 3M: 115 × 80 mm. 4M: 137 × 80 mm. 7M: 205 × 90 mm. Mounting plate codes: For 3M box (83.5 mm screw distance): N1373.9. For 4M box (107 mm screw distance): N1474.9. For 7M box (100 mm screw distance): N1777.9.		
White				
3M	1	**N1371 BL**	2CLA137100N1103	24
3M	2	**N1372 BL**	2CLA137200N1103	24
3M	3	**N1373 BL**	2CLA137300N1103	24
4M	4	**N1474 BL**	2CLA147400N1103	20
7M	7	**N1777 BL**	2CLA177700N1103	12
Mustard				
3M	3	**N1373 MS**	2CLA137300N2103	24
4M	4	**N1474 MS**	2CLA147400N2103	20
7M	7	**N1777 MS**	2CLA177700N2103	12
Chocolate				
3M	3	**N1373 CT**	2CLA137300N2603	24
4M	4	**N1474 CT**	2CLA147400N2603	20
7M	7	**N1777 CT**	2CLA177700N2603	12
Tangerine				
3M	3	**N1373 MD**	2CLA137300N2503	24
4M	4	**N1474 MD**	2CLA147400N2503	20
7M	7	**N1777 MD**	2CLA177700N2503	12
Blueberry				
3M	3	**N1373 AR**	2CLA137300N2403	24
4M	4	**N1474 AR**	2CLA147400N2403	20
7M	7	**N1777 AR**	2CLA177700N2403	12
Lilac				
3M	3	**N1373 LL**	2CLA137300N2303	24
4M	4	**N1474 LL**	2CLA147400N2303	20
7M	7	**N1777 LL**	2CLA177700N2303	12
Mint				
3M	3	**N1373 MN**	2CLA137300N2203	24
4M	4	**N1474 MN**	2CLA147400N2203	20
7M	7	**N1777 MN**	2CLA277700N2203	12
Caramel				
3M	3	**N1373 CM**	2CLA137300N2703	24
4M	4	**N1474 CM**	2CLA147400N2703	20
7M	7	**N1777 CM**	2CLA177700N2703	12
Blue				
3M	3	**N1373 AZ**	2CLA137300N2003	24
4M	4	**N1474 AZ**	2CLA147400N2003	20
7M	7	**N1777 AZ**	2CLA177700N2003	12

Unno

Mounting plates

Size	Modularity	Article-No.	Order-No.	Pack/Qty
		**Mounting plates - 3, 4, 7 and 3+3 modules** With colored decorative contour. Material: polycarbonate Size (height x width): - 3M: 115 × 80 mm. - 4M: 137 × 80 mm. - 7M: 205 × 90 mm. - 3+3M: 115 × 128 mm. Frame codes: - For 3M mounting plates: N137X.X. - For 4M mounting plates: N1474. - For 7M mounting plates: N1777.		
White				
3M	3	**N1373.9 BL**	2CLA137390N1103	24
4M	4	**N1474.9 BL**	2CLA147490N1103	20
7M	7	**N1777.9 BL**	2CLA177790N1103	12
3+3M	3+3	**N1673.9 BL**	2CLA167390N1104S	10
Black				
3M	3	**N1373.9 NG**	2CLA137390N1503	24
4M	4	**N1474.9 NG**	2CLA147490N1503	20
7M	7	**N1777.9 NG**	2CLA177790N1503	12
3+3M	3+3	**N1673.9 NG**	2CLA167390N1504S	10
Gray				
3M	3	**N1373.9 GR**	2CLA137390N1303	24
4M	4	**N1474.9 GR**	2CLA147490N1303	20
7M	7	**N1777.9 GR**	2CLA177790N1303	12
3+3M	3+3	**N1673.9 GR**	2CLA167390N1304S	10
Mustard				
3M	3	**N1373.9 MS**	2CLA137390N2103	24
4M	4	**N1474.9 MS**	2CLA147490N2103	20
7M	7	**N1777.9 MS**	2CLA177790N2103	12
3+3M	3+3	**N1673.9 MS**	2CLA167390N2104S	10
Chocolate				
3M	3	**N1373.9 CT**	2CLA137390N2603	24
4M	4	**N1474.9 CT**	2CLA147490N2603	20
7M	7	**N1777.9 CT**	2CLA177790N2603	12
3+3M	3+3	**N1673.9 CT**	2CLA167390N2604S	10
Tangerine				
3M	3	**N1373.9 MD**	2CLA137390N2503	24
4M	4	**N1474.9 MD**	2CLA147490N2503	20
7M	7	**N1777.9 MD**	2CLA177790N2503	12
3+3M	3+3	**N1673.9 MD**	2CLA167390N2504S	10

Size	Modularity	Article-No.	Order-No.	Pack/Qty
Blueberry				
3M	3	**N1373.9 AR**	2CLA137390N2403	24
4M	4	**N1474.9 AR**	2CLA147490N2403	20
7M	7	**N1777.9 AR**	2CLA177790N2403	12
3+3M	3+3	**N1673.9 AR**	2CLA167390N2404S	10
Lilac				
3M	3	**N1373.9 LL**	2CLA137390N2303	24
4M	4	**N1474.9 LL**	2CLA147490N2303	20
7M	7	**N1777.9 LL**	2CLA177790N2303	12
3+3M	3+3	**N1673.9 LL**	2CLA167390N2304S	10
Mint				
3M	3	**N1373.9 MN**	2CLA137390N1303	24
4M	4	**N1474.9 MN**	2CLA147490N1303	20
7M	7	**N1777.9 MN**	2CLA177790N1303	12
3+3M	3+3	**N1673.9 MN**	2CLA167390N1304S	10
Caramel				
3M	3	**N1373.9 CM**	2CLA137390N2103	24
4M	4	**N1474.9 CM**	2CLA147490N2103	20
7M	7	**N1777.9 CM**	2CLA177790N2103	12
3+3M	3+3	**N1673.9 CM**	2CLA167390N2104S	10
Blue				
3M	3	**N1373.9 AZ**	2CLA137390N2603	24
4M	4	**N1474.9 AZ**	2CLA147490N2603	20
7M	7	**N1777.9 AZ**	2CLA177790N2603	12
3+3M	3+3	**N1673.9 AZ**	2CLA167390N2604S	10

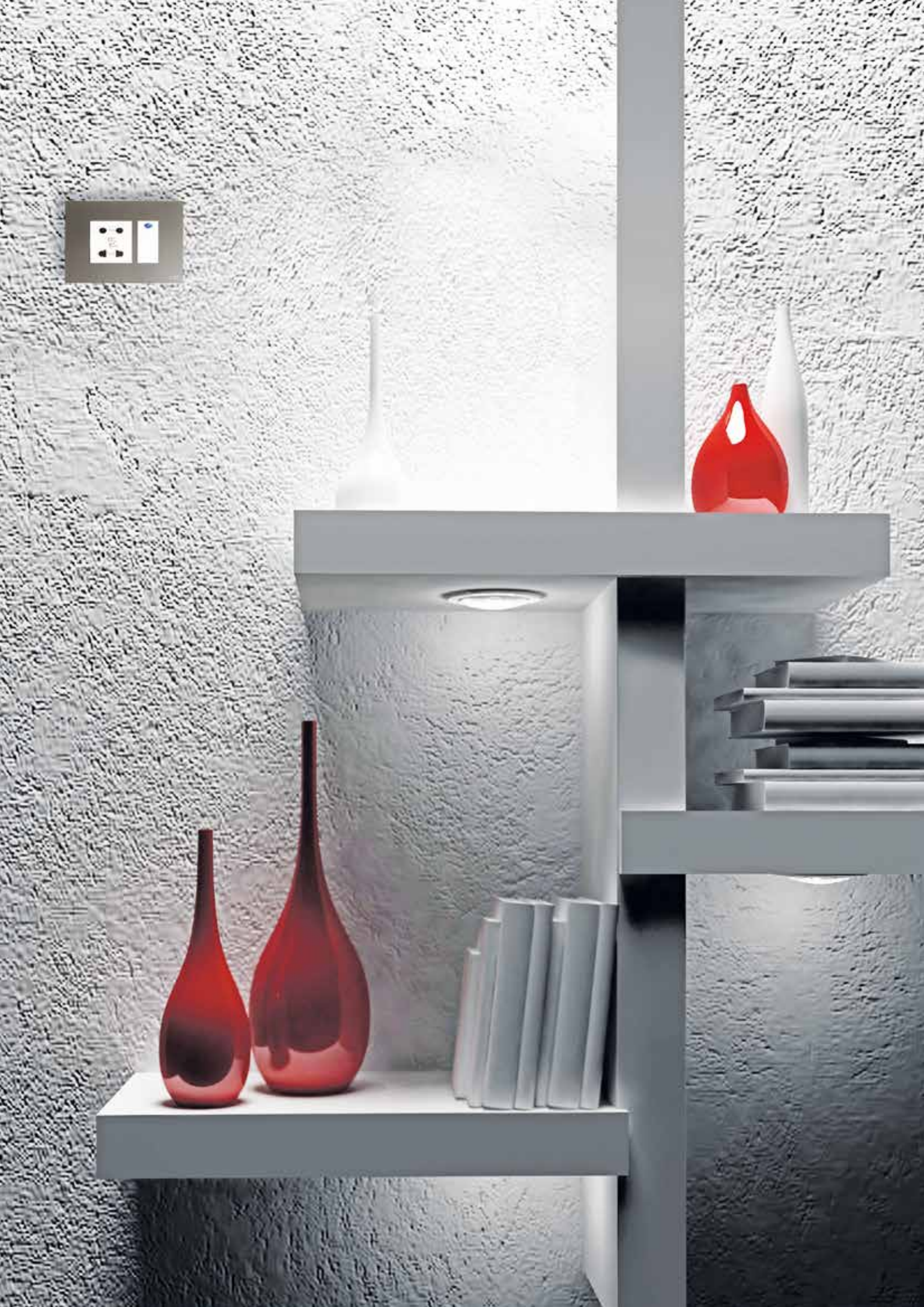
IVIE
Switch to the future.

Stylish design in three delightful colours which perfectly matches any interior. A comprehensive offer of premium modular wiring accessories provides advanced functions like dimming, USB charging, automatic switching based on movement, home automation. A clever combination of style, quality, safety and energy savings.



Different finishes and combinations:
01 Anthracite grey mechanisms in Silver plate
02 Silver mechanisms in Anthracite Grey plate
03 Anthracite grey mechanisms in White plate

Materials
Cover: thermoplastic cover (PC), impact-proof and fracture-resistant, UV-resistant, free of PVC and halogen.



IVIE

Rocker switches / push switches

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 1 way** 6 A - 240 V ~ Number of modules: 1		
white	**IIS10610 BL**	1SYK100001A1001	20/400
anthracite grey	**IIS10610 AN**	1SYK100001A1201	20/400
silver	**IIS10610 PL**	1SYK100001A1101	20/400
	**Switch 2 way** 6 A - 240 V ~ Number of modules: 2		
white	**IIS10620 BL**	1SYK100001A1002	20/400
anthracite grey	**IIS10620 AN**	1SYK100001A1202	20/400
silver	**IIS10620 PL**	1SYK100001A1102	20/400
	Switch 1 way 16 A - 240 V ~ Number of modules: 1		
white	**IIS11610 BL**	1SYK100001A1006	20/400
anthracite grey	**IIS11610 AN**	1SYK100001A1206	20/400
silver	**IIS11610 PL**	1SYK100001A1106	20/400
	**Switch 1 way with indicator** 16 A - 240 V ~ Number of modules: 1		
white	**IIS1161L BL**	1SYK100001A1007	20/400
anthracite grey	**IIS1161L AN**	1SYK100001A1207	20/400
silver	**IIS1161L PL**	1SYK100001A1107	20/400
	**Switch DP** 32 A - 240 V ~ Number of modules: 2		
white	**IIS2321L BL**	1SYK100001A1008	10/200
anthracite grey	**IIS2321L AN**	1SYK100001A1208	10/200
silver	**IIS2321L PL**	1SYK100001A1108	10/200

Product	Article-No.	Order-No.	Pack/Qty
	**Push button with bell symbol** 6A Number of modules: 1		
white	**IIS106B0 BL**	1SYK100001A1003	20/400
anthracite grey	**IIS106B0 AN**	1SYK100001A1203	20/400
	Push button with bell symbol 6A With indicator Number of modules: 1		
white	**IIS106BL BL**	1SYK100001A1004	20/400
anthracite grey	**IIS106BL AN**	1SYK100001A1204	20/400
	**Mega push button with bell symbol** 6A With indicator Number of modules: 2		
white	**IIS206BL BL**	1SYK100001A1005	20/400
anthracite grey	**IIS206BL AN**	1SYK100001A1205	20/400
	**Card switch 1-gang, 1-way, DP** Number of modules: 2		
white	**N2214.1 BL**	2CLA221410N1102	1
anthracite grey	**N2214.1 AN**	2CLA221410N1802	1
silver	**N2214.1 PL**	2CLA221410N1302	1

IVIE
Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**Sockets - 240 V ~** 6A, 2+3 pin socket Number of modules: 2		
white	**IIK20006 BL**	1SYK100001A1021	10/200
anthracite grey	**IIK20006 AN**	1SYK100001A1221	10/200
silver	**IIK20006 PL**	1SYK100001A1121	10/200
	**Sockets - 240 V ~** 6/13A universal socket Number of modules: 2		
white	**IIK20613 BL**	1SYK100001A1022	10/200
anthracite grey	**IIK20613 AN**	1SYK100001A1222	10/200
silver	**IIK20613 PL**	1SYK100001A1122	10/200
	**Sockets - 240 V ~** 6/16A socket Number of modules: 2		
white	**IIK20616 BL**	1SYK100001A1023	10/200
anthracite grey	**IIK20616 AN**	1SYK100001A1223	10/200
silver	**IIK20616 PL**	1SYK100001A1123	10/200
	Sockets - 240 V ~ 6/20A socket Number of modules: 2		
white	**IIK20620 BL**	1SYK100001A1024	10/200
anthracite grey	**IIK20620 AN**	1SYK100001A1224	10/200
silver	**IIK20620 PL**	1SYK100001A1124	10/200
	Sockets - 240 V ~ 6/25A socket Number of modules: 2		
white	**IIK20625 BL**	1SYK100001A1025	10/200
anthracite grey	**IIK20625 AN**	1SYK100001A1225	10/200
silver	**IIK20625 PL**	1SYK100001A1125	10/200
	**Sockets - 240 V ~** 6A 2 pin socket Number of modules: 1		
white	**IIK10006 BL**	1SYK100001A1026	20/400
anthracite grey	**IIK10006 AN**	1SYK100001A1226	20/400
silver	**IIK10006 PL**	1SYK100001A1126	20/400

Product	Article-No.	Order-No.	Pack/Qty
	**Euro-American earthed socket outlet** 240 V ~ Rated voltage: 125/250 Vac Rated current: 15/16A 2P+E/ NEMA 5-15R Number of modules: 2		
white	**N2238 BL**	2CLA223800N1102	10
anthracite grey	**N2238 AN**	2CLA223800N1802	10
silver	**N2238 PL**	2CLA223800N1302	10
	**Euro-American unearthed socket outlet** 240 V ~ Rated voltage: 125/250 V AC Rated current: 15/16A 2P (non-earthed)/NEMA 1-15R Number of modules: 1		
white	**N2135 BL**	2CLA213500N1102	20
anthracite grey	**N2135 AN**	2CLA213500N1802	20
silver	**N2135 PL**	2CLA213500N1302	20
	**British standard socket outlet** 240 V ~ Rated current: 13A 2 P+E Number of modules: 2		
white	**N2237 BL**	2CLA223700N1102	10
anthracite grey	**N2237 AN**	2CLA223700N1302	10
silver	**N2237 PL**	2CLA223700N1802	10
	**Shaver Socket** Number of modules: 2		
white	**IIM2SVSK BL**	1SYK100001A1057	5/100
anthracite grey	**IIM2SVSK AN**	1SYK100001A1257	5/100
silver	**IIM2SVSK PL**	1SYK100001A1157	5/100

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USB chargers

Product	Article-No.	Order-No.	Pack/Qty
	**USB charger 750mA, 1-gang** Number of modules: 1		
white	**N2185 BL**	2CLA218500N1102	1
anthracite grey	**N2185 AN**	2CLA218500N1802	1
silver	**N2185 PL**	2CLA218500N1302	1
	**USB charger 2.000mA, 1-gang** Number of modules: 1		
white	**N2185.2 BL**	2CLA218520N1102	1
anthracite grey	**N2185.2 AN**	2CLA218520N1802	1
silver	**N2185.2 PL**	2CLA218520N1302	1
	**USB charger 1.500mA, 2-gang** Number of modules: 2		
white	**N2285 BL**	2CLA228500N1102	1
anthracite grey	**N2285 AN**	2CLA228500N1802	1
silver	**N2285 PL**	2CLA228500N1302	1

Product	Article-No.	Order-No.	Pack/Qty
	**Blank plates** Number of modules: 1		
white	**IIM1BLNK BL**	1SYK100001A1041	20/400
anthracite grey	**IIM1BLNK AN**	1SYK100001A1241	20/400
silver	**IIM1BLNK PL**	1SYK100001A1141	20/400

IVIE
Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**Dimmer & fan regulators** Step fan regulator 5 step Number of modules: 2		
white	**IIM2FR05 BL**	1SYK100001A1042	5/100
anthracite grey	**IIM2FR05 AN**	1SYK100001A1242	5/100
silver	**IIM2FR05 PL**	1SYK100001A1142	5/100
	Dimmer & fan regulators Step fan regulator 4 step Number of modules: 1		
white	**IIM1FR04 BL**	1SYK100001A1043	10/200
anthracite grey	**IIM1FR04 AN**	1SYK100001A1243	10/200
silver	**IIM1FR04 PL**	1SYK100001A1143	10/200
	**Dimmer & fan regulators** Dimmer 400 Watt Number of modules: 1		
white	**IIM2D400 BL**	1SYK100001A1045	10/200
anthracite grey	**IIM1D400 AN**	1SYK100001A1245	10/200
silver	**IIM1D400 PL**	1SYK100001A1145	10/200
	**Universal rotatory/push dimmer** Number of modules: 2 Rated voltage: 230 V AC Max. power: Incandescent: 500 W Halogen lamp with electronic transformer: 500 VA Halogen lamp with ferromagnetic transformer: 400 VA		
white	**N2260.2 BL**	2CLA226020N1102	1
anthracite grey	**N2260.2 AN**	2CLA226020N1802	1
silver	**N2260.2 PL**	2CLA226020N1302	1
	**LED rotatory/push dimmer** Number of modules: 2 Rated voltage: 230 V AC Nominal power: 250 W/VA Power (min./max load): LEDi: 2/100 W/VA (max. 10 lamps) Dimmable energy saving lamps: 2/100 W/VA (max. 10 lamps) LV LEDi with transformer (only type L or LC): 4/100 W/VA (max. 10 lamps) Incandescent lamps: 10/250 W/VA Halogen lamps: 10/250 W/VA LV halogen with transformer (only type L or LC): 10/250 W/VA (max. 10 lamps) 2 wire connection Optional: auxiliary on/off with 2-way switch N2X02		
white	**N2260.3 BL**	2CLA226030N1102	1
anthracite grey	**N2260.3 AN**	2CLA226030N1802	1
silver	**N2260.3 PL**	2CLA226030N1302	1

Product	Article-No.	Order-No.	Pack/Qty
	**LED rotatory/push dimmer** Number of modules: 2 Rated voltage: 127 V AC Frequency: 50/60 Hz (Nominal power: 140 W/VA) Power (min./max load): LEDi: 2/55 W/VA (max. 10 lamps) Dimmable energy saving lamps: 2/55 W/VA (max. 10 lamps) LV LEDi with transformer (only type L or LC): 4/55 W/VA (max. 10 lamps) Incandescent lamps: 10/140 W/VA Halogen lamps: 10/140 W/VA LV halogen with transformer (only type L or LC): 10/140 W/VA (max. 10 lamps)		
white	**N2260.8 BL**	2CLA226080N1102	1
anthracite grey	**N2260.8 AN**	2CLA226080N1802	1
silver	**N2260.8 PL**	2CLA226080N1302	1
	**1-10V rotary dimmer** Number of modules: 2 Rated voltage: 127 - 230 V AC / 50 - 60 Hz Max. power: 230 V AC: 700 VA, 127 V AC: 350 VA Max. 6 ballasts per device		
white	**N2260.9 BL**	2CLA226090N1102	1
anthracite grey	**N2260.9 AN**	2CLA226090N1802	1
silver	**N2260.9 PL**	2CLA226090N1302	1

IVIE

Data communication

Product	Article-No.	Order-No.	Pack/Qty
	**2x RCA connection unit** Number of modules: 1		
white	**N2155.2 BL**	2CLA215520N1102	1
anthracite grey	**N2155.2 AN**	2CLA215520N1802	1
silver	**N2155.2 PL**	2CLA215520N1302	1
	**3x RCA connection unit** Number of modules: 1		
white	**N2155.3 BL**	2CLA215530N1102	1
anthracite grey	**N2155.3 AN**	2CLA215530N1802	1
silver	**N2155.3 PL**	2CLA215530N1302	1
	**Mini-Jack connection unit** Number of modules: 1		
white	**N2155.4 BL**	2CLA215540N1102	1
anthracite grey	**N2155.4 AN**	2CLA215540N1802	1
silver	**N2155.4 PL**	2CLA215540N1302	1
	**VGA connection unit** Number of modules: 1		
white	**N2155.5 BL**	2CLA215550N1102	1
anthracite grey	**N2155.5 AN**	2CLA215550N1802	1
silver	**N2155.5 PL**	2CLA215550N1302	1

Product	Article-No.	Order-No.	Pack/Qty
	**HDMI connection unit** Number of modules: 1		
white	**N2155.6 BL**	2CLA215560N1102	1
anthracite grey	**N2155.6 AN**	2CLA215560N1802	1
silver	**N2155.6 PL**	2CLA215560N1302	1
	**HDMI female-female connection unit** Number of modules: 1		
white	**N2155.7 BL**	2CLA215570N1102	1
anthracite grey	**N2155.7 AN**	2CLA215570N1802	1
silver	**N2155.7 PL**	2CLA215570N1302	1
	**USB connection unit** Number of modules: 1		
white	**N2155.8 BL**	2CLA215580N1102	1
anthracite grey	**N2155.8 AN**	2CLA215580N1802	1
silver	**N2155.8 PL**	2CLA215580N1302	1
	**USB female-female connection unit** Number of modules: 1		
white	**N2155.9 BL**	2CLA215590N1102	1
anthracite grey	**N2155.9 AN**	2CLA215590N1802	1
silver	**N2155.9 PL**	2CLA215590N1302	1

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Data communication

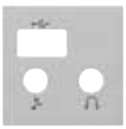
Product	**Article-No.**	Order-No.	Pack/Qty
	**Data & Voice** RJ11 Tel. jack 2 pin Number of modules: 1		
white	**IIM1RJ11 BL**	1SYK100001A1047	20/400
anthracite grey	**IIM1RJ11 AN**	1SYK100001A1247	20/400
silver	**IIM1RJ11 PL**	1SYK100001A1147	20/400
	Data & Voice RJ45 Jack cat 6 Number of modules: 1		
white	**IIM1RJ45 BL**	1SYK100001A1048	20/400
anthracite grey	**IIM1RJ45 AN**	1SYK100001A1248	20/400
silver	**IIM1RJ45 PL**	1SYK100001A1148	20/400
	**TV Socket** TV co-axial socket Number of modules: 1		
white	**IIM1TVSK BL**	1SYK100001A1049	20/400
anthracite grey	**IIM1TVSK AN**	1SYK100001A1249	20/400
silver	**IIM1TVSK PL**	1SYK100001A1149	20/400

IVIE

Room thermostats

Product	Article-No.	Order-No.	Pack/Qty
	**Digital room thermostat** Number of modules: 2 Maximum load: 3A cos = 0,5 Output relay operation modes: Hysteresis: 0.5º C Pulse-width modulation: with a ±4ºC difference with the set-point temperature Variable from 100% to 0% modulation To be installed with N2240.5 cover plates		
white	**8140.5**	2CLA814050A1002	1
	**Cover plate for digital thermostat** Number of modules: 2		
white	**N2240.5 BL**	2CLA224050N1102	1
anthracite grey	**N2240.5 AN**	2CLA224050N1802	1
silver	**N2240.5 PL**	2CLA224050N1302	1

Multimedia

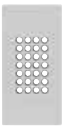
Product	Article-No.	Order-No.	Pack/Qty
	**Multiroom sound module** Number of modules: 1		
white	**9368.1**	2CLA936810A1001	1
	**Remote control for multiroom sound module** Number of modules: 2		
white	**9368.2**	2CLA936820A1001	1
	Cover plate for radio/remote control modules		
white	**N2268 BL**	2CLA226800N1102	1
	**FM-radio and alarm module** Number of modules: 2		
white	**9368- FM**	2CLA936800A1001	1
	Cover plate for radio/remote control modules		
white	**N2268 BL**	2CLA226800N1102	1
	**Auxiliary module** Number of modules: 2		
white	**9368.3**	2CLA936830A1001	1
	**Cover plate for I/O + USB + Bluetooth module**		
white	**N2268.3 BL**	2CLA226830N1102	1
	**Speaker connection unit** Number of modules: 2		
white	**N2257.1 BL**	2CLA225710N1102	1

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Movement detectors

Product	Article-No.	Order-No.	Pack/Qty
	**110° motion sensor** Number of modules: 2 Max. power: - Incandescent: 1.800W @230V AC/1.000W @127V AC - Halogen with electronic o ferromagnetic transformer: 750VA @230V AC/400VA @127V AC - Fluorescent lamps or motors: 400VA @230V AC/ 200VA @127V AC For automatic switching of devices dependent on motion and brightness With integrated selector switch for automatic ON-OFF in the front side Switch-off delay: 10 sec. to 10 min. or short-time pulse 1 sec adjustable (from the front side) Detection range: 5 m radius Adjustable light set point level for activation (from the front side) Detection angle: 110° Mounting height: 1, 2 m auxiliary control with N2X04.X push-buttons		
white	**N2241 BL**	2CLA224100N1102	1
anthracite grey	**N2241 AN**	2CLA224100N1802	1
silver	**N2241 PL**	2CLA224100N1302	1

Buzzer / Door bell

Product	Article-No.	Order-No.	Pack/Qty
	**Buzzer & door bell** Buzzer Number of modules: 2		
white	**IIM2BUZR BL**	1SYK100001A1054	5/100
anthracite grey	**IIM2BUZR AN**	1SYK100001A1254	5/100
silver	**IIM2BUZR PL**	1SYK100001A1154	5/100
	**Buzzer** Number of modules: 1		
white	**N2119 BL**	2CLA211900N1102	1
anthracite grey	**N2119 AN**	2CLA211900N1802	1
silver	**N2119 PL**	2CLA211900N1302	1
	**Buzzer** Number of modules: 2		
white	**N2219 BL**	2CLA221900N1102	1
anthracite grey	**N2219 AN**	2CLA221900N1802	1
silver	**N2219 PL**	2CLA221900N1302	1
	**Electronic door bell 230 V AC** Number of modules: 2		
white	**N2224 BL**	2CLA222400N1102	1
anthracite grey	**N2224 AN**	2CLA222400N1802	1
silver	**N2224 PL**	2CLA222400N1302	1

IVIE

Signaling and lighting systems

Product	Article-No.	Order-No.	Pack/Qty
	**Indicator** Number of modules: 1		
white	**IIM1INDI BL**	1SYK100001A1053	20/400
anthracite grey	**IIM1INDI AN**	1SYK100001A1253	20/400
silver	**IIM1INDI PL**	1SYK100001A1153	20/400
	LED white signaling light Number of modules: 1 Lamp: white LED Luminous flux: > 2 lumen at 1 meter, white diffuser		
white	**N2180 BL**	2CLA218000N1102	5
	**LED red signaling light** Number of modules: 1 Lamp: white LED Luminous flux: > 2 lumen at 1 meter, Red diffuser		
white	**N2180 RJ**	2CLA218000N1602	1
	**LED red signaling light** Number of modules: 1 Lamp: white LED Luminous flux: > 2 lumen at 1 meter, Green diffuser		
white	**N2180 VD**	2CLA218000N1802	1
	**LED signaling light** Number of modules: 2 Lamp: white LED Luminous flux: > 2 lumen at 1 meter, White diffuser		
white	**N2280 BL**	2CLA228000N1102	1
	**Beacon LED light** Number of modules: 2 Lamp: white LED Luminous flux: > 2 lumen at 1 meter, white diffuser Autonomy: 3 hours (1 hour at maximum illumination 2 hours with lower illumination) Battery: Ni-MH (estimated lifetime: 4 years)		
white	**N2281 BL**	2CLA228100N1102	1

Product	Article-No.	Order-No.	Pack/Qty
	**DND & MMR** DND and MMR set internal & external Number of modules: 2+3		
white	**IIM1DNDS BL**	1SYK100001A1055	5/100
anthracite grey	**IIM1DNDS AN**	1SYK100001A1255	5/100
silver	**IIM1DNDS PL**	1SYK100001A1155	5/100
	**DND/MUR 2-gang interlocked switch** Number of modules: 1		
white	**N2244.5 BL**	2CLA224450N1102	1
anthracite grey	**N2244.5 AN**	2CLA224450N1802	1
silver	**N2244.5 PL**	2CLA224450N1302	1
	**LED MUR signaling light** Number of modules: 2		
white	**N2180.5 BL**	2CLA218050N1102	1
anthracite grey	**N2180.5 AN**	2CLA218050N1802	1
silver	**N2180.5 PL**	2CLA218050N1302	1
	**LED DND signaling light** Number of modules: 1		
white	**N2180.4 BL**	2CLA218040N1102	1
anthracite grey	**N2180.4 AN**	2CLA218040N1802	1
silver	**N2180.4 PL**	2CLA218040N1302	1

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Other products

Product	**Article-No.**	Order-No.	Pack/Qty
	**Starters** Single Phase Starter 20A Number of modules: 2		
white	**IIM2ST20 BL**	1SYK100001A1051	5/100
	Starters Single Phase Starter 25A Number of modules: 2		
white	**IIM2ST25 BL**	1SYK100001A1052	5/100
	**Down lighter** Number of modules: 3		
white	**IIM3DOWN BL**	1SYK100001A1059	5/100
anthracite grey	**IIM3DOWN AN**	1SYK100001A1259	5/100
silver	**IIM3DOWN PL**	1SYK100001A1159	5/100

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Cover frames

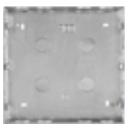
Product	Article-No.	Order-No.	Pack/Qty
	Plate with frame 1M plate Number of modules: 1		
white	**IIP0133 BL**	1SYK100001A1071	15/360
anthracite grey	**IIP0133 AN**	1SYK100001A1271	15/360
silver	**IIP0133 PL**	1SYK100001A1171	15/360
	**Plate with frame** 2M plate Number of modules: 2		
white	**IIP0233 BL**	1SYK100001A1072	15/360
anthracite grey	**IIP0233 AN**	1SYK100001A1272	15/360
silver	**IIP0233 PL**	1SYK100001A1172	15/360
	**Plate with frame** 3M plate power Number of modules: 3		
white	**IIPP343 BL**	1SYK100001A1073	10/240
anthracite grey	**IIPP343 AN**	1SYK100001A1273	10/240
silver	**IIPP343 PL**	1SYK100001A1173	10/240
	**Plate with frame** 3M plate Number of modules: 3		
white	**IIP0343 BL**	1SYK100001A1074	10/240
anthracite grey	**IIP0343 AN**	1SYK100001A1274	10/240
silver	**IIP0343 PL**	1SYK100001A1174	10/240
	Plate with frame 4M plate Number of modules: 4		
white	**IIP0453 BL**	1SYK100001A1075	10/190
anthracite grey	**IIP0453 AN**	1SYK100001A1275	10/190
silver	**IIP0453 PL**	1SYK100001A1175	10/190

Product	Article-No.	Order-No.	Pack/Qty
	Plate with frame 6M plate Number of modules: 6		
white	**IIP0683 BL**	1SYK100001A1076	5/120
anthracite grey	**IIP0683 AN**	1SYK100001A1276	5/120
silver	**IIP0683 PL**	1SYK100001A1176	5/120
	**Plate with frame** 8M plate Number of modules: 8		
white	**IIP0893 BL**	1SYK100001A1077	5/120
anthracite grey	**IIP0893 AN**	1SYK100001A1277	5/120
silver	**IIP0893 PL**	1SYK100001A1177	5/120
	Plate with frame 8M plate square Number of modules: 8		
white	**IIP0855 BL**	1SYK100001A1078	5/95
anthracite grey	**IIP0855 AN**	1SYK100001A1278	5/95
silver	**IIP0855 PL**	1SYK100001A1178	5/95
	**Plate with frame** 12M plate Number of modules: 12		
white	**IIP1286 BL**	1SYK100001A1079	5/95
anthracite grey	**IIP1286 AN**	1SYK100001A1279	5/95
silver	**IIP1286 PL**	1SYK100001A1179	5/95
	Plate with frame 18M plate Number of modules: 18		
white	**IIP1888 BL**	1SYK100001A1080	5/40
anthracite grey	**IIP1888 AN**	1SYK100001A1280	5/40
silver	**IIP1888 PL**	1SYK100001A1180	5/40

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Installation boxes

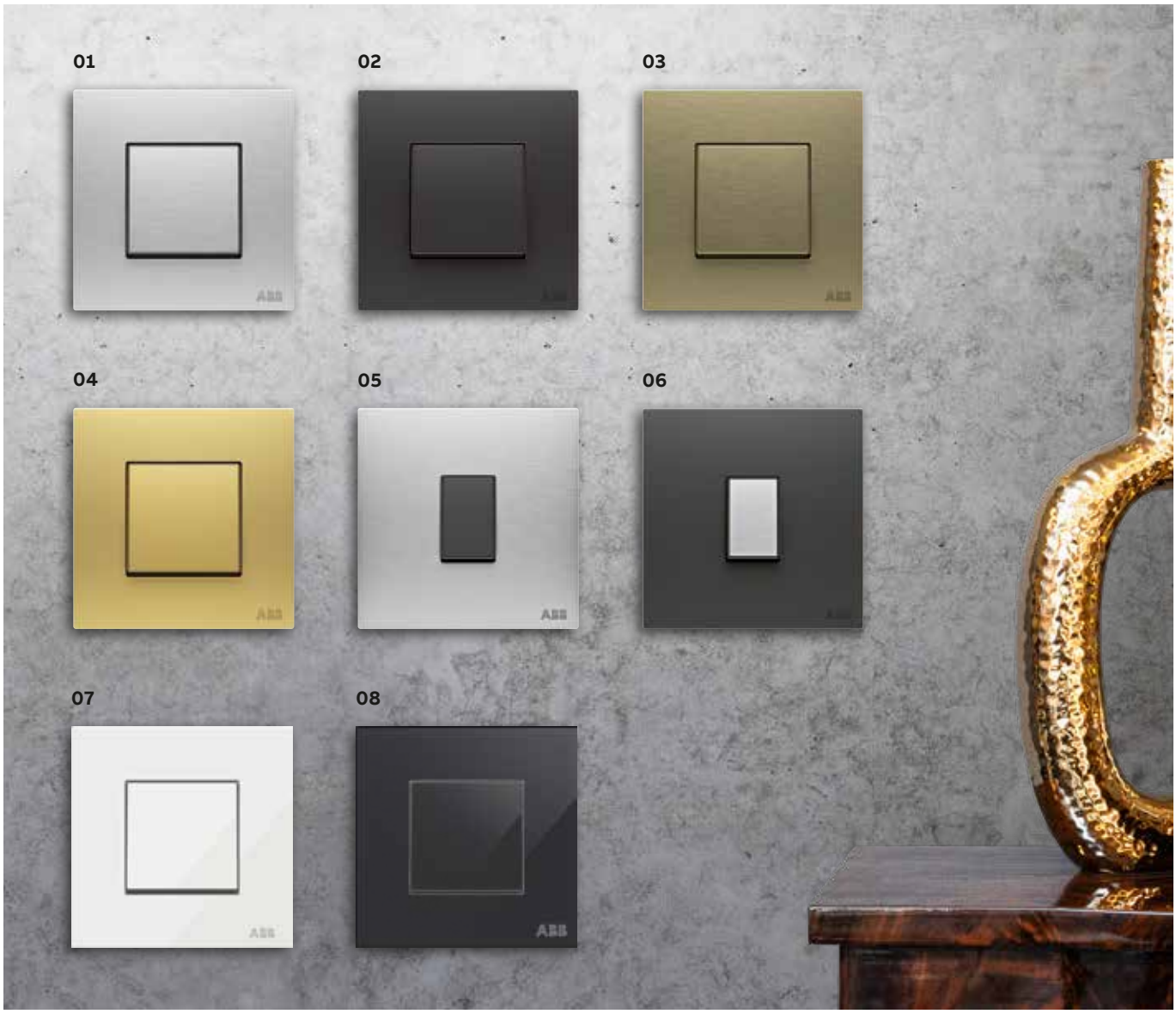
Product	Article-No.	Order-No.	Pack/Qty
	**Flush boxes** 1-2 M Metal Box Number of modules: 1/2		
	IAB0233W	1SYK100001A1441	24
	Flush boxes 3 M Metal Box Number of modules: 3		
	IAB0343W	1SYK100001A1442	18
	**Flush boxes** 4 M Metal Box Number of modules: 4		
	IAB0453W	1SYK100001A1443	18
	Flush boxes 6 M Metal Box Number of modules: 6		
	IAB0683W	1SYK100001A1444	12

Product	Article-No.	Order-No.	Pack/Qty
	**Flush boxes** 8 M Metal Box Number of modules: 8		
	IAB0893W	1SYK100001A1445	12
	Flush boxes 8 M Metal Box Square Number of modules: 8		
	IAB0855W	1SYK100001A1446	7
	**Flush boxes** 12M Metal Box Number of modules: 12		
	IAB1286W	1SYK100001A1447	5
	**Flush boxes** 18 M Metal Box Number of modules: 18		
	IAB1888W	1SYK100001A1448	5

Millenium

Distinct sophistication.

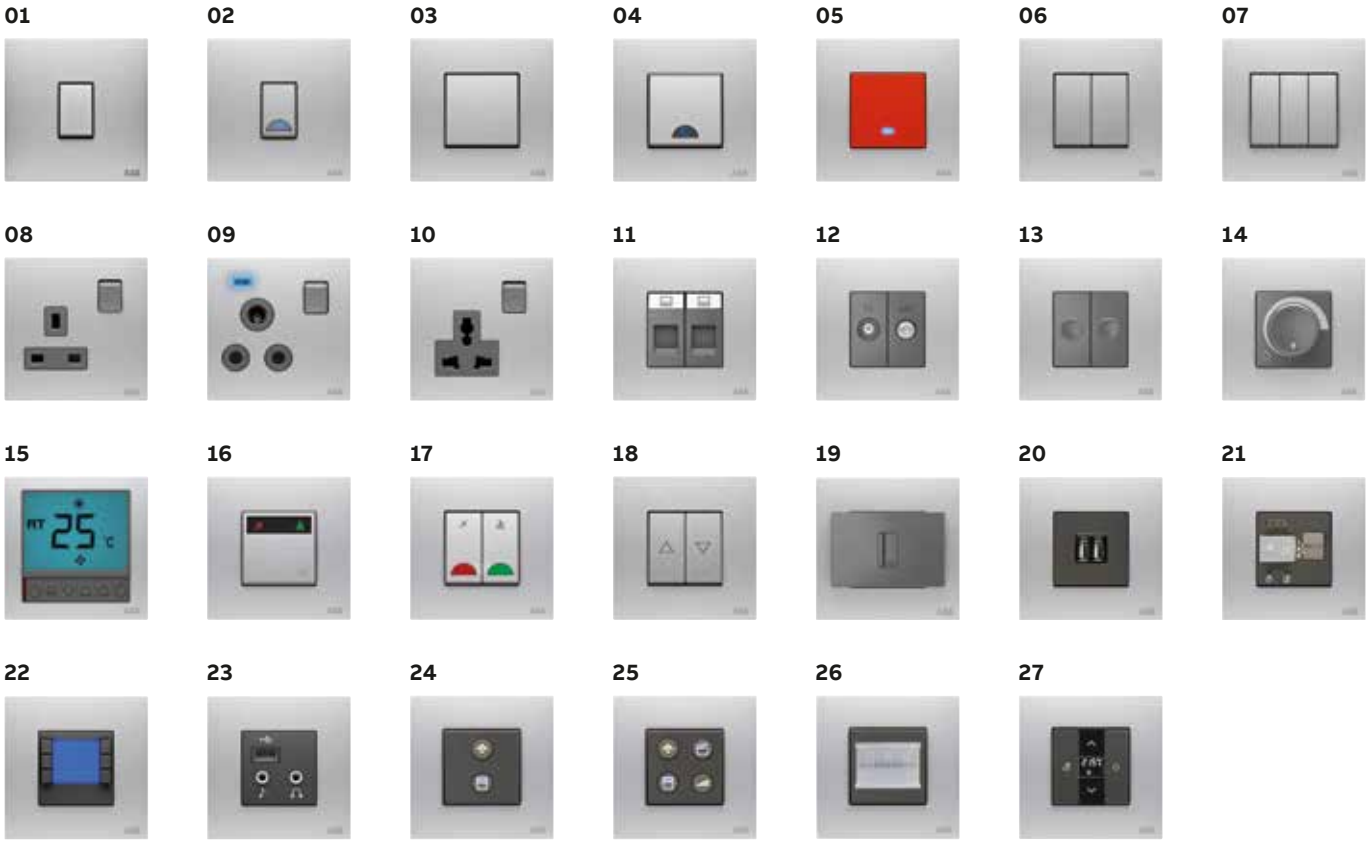
Cool. Conspicuous. Clever. Striking metal light switches in square and ultra slim designs. Millenium surprises with its complexity and functional solutions designed for any interior, any building. A wide range of KNX sensors meet the highest of customer demands. Engineered to offer maximum comfort and happiness.



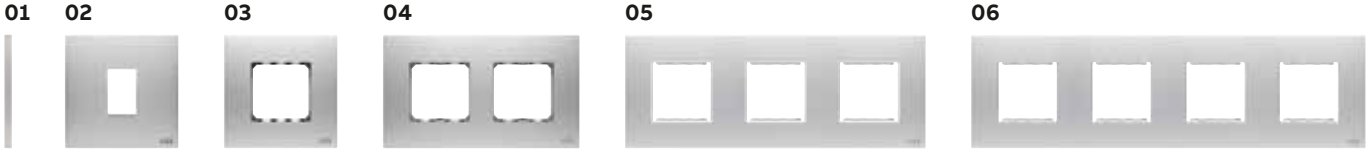
01 stainless steel
02 silk black
03 antique gold
04 matt gold
05 stainless steel frame - silk black switch
06 silk black frame - stainless steel switch
07 white glass frame - white glass switch
08 black glass frame - black glass switch

Millenium

Selected functions.



01 1-gang 1-way switch
02 Double pole switch, with status indicator led
03 1-gang 2-way switch, premium rocker
04 Switch, with bell symbol, premium rocker
05 Double pole switch, status indicator led, 45A
06 2-gang 1-way switch
07 3-gang 2-way switch
08 BS single pole switched socket outlet
09 BS double pole round pin switched socket outlet with led
10 Universal socket outlet
11 2-gang computer outlet, RJ45
12 TV / SAT outlet
13 1-gang double rotary dimmer
14 Rotary dimmer
15 Thermostat controller, 2 pipe system with blue display
16 Bell push switch DND / MUR by LED signalling
17 2-gang switch DND / MUR by LED signaling
18 Blind control switch
19 Card switch
20 USB charging socket
21 Movement detector
22 FM stereo receiver with RDS
23 USB and Bluetooth® entry/exit module
24 Switch 1/2-gang ABB-free@home®
25 Switch 2/4-gang ABB-free@home®
26 Movement detector ABB-free@home®
27 Room temperature controller ABB-free@home®

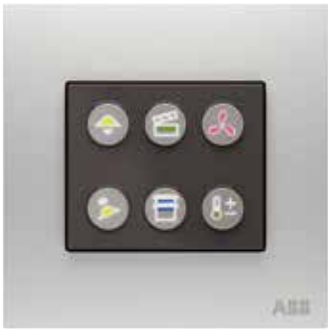


1- to 4-gang frame
01 Side view, 4 x 86 mm
02 Frame 1-gang, 86 x 86 mm
03 Frame 1-gang, 86 x 86 mm
04 Frame 2-gang, 86 x 147 mm
05 Frame 3-gang, 86 x 228 mm
06 Frame 4-gang, 86 x 293 mm

For more information about light switch ranges visit ABB global web sites.

Features and benefits

Full range of ABB i-bus® KNX, ABB-free@home® sensors, innovative, intuitive and visually elegant. Millenium gives answer to the future by providing comfort, safety, and energy saving.



Millenium collection is a grid type system enabling combination of colours and products of different dimension and functionality. The three type of switch dimensions together with the ABB i-bus® KNX, ABB-free@home® sensors and other functions, have to be composed with the required frame in order to have the right assortment of functionality and design. In ABB i-bus® KNX sensors we have the possibility to adjoin to the frame the special metal mounting plate that allows to reduce the height so as to maintain the ultra slim line for KNX functionalities.



—
Mounting Plate

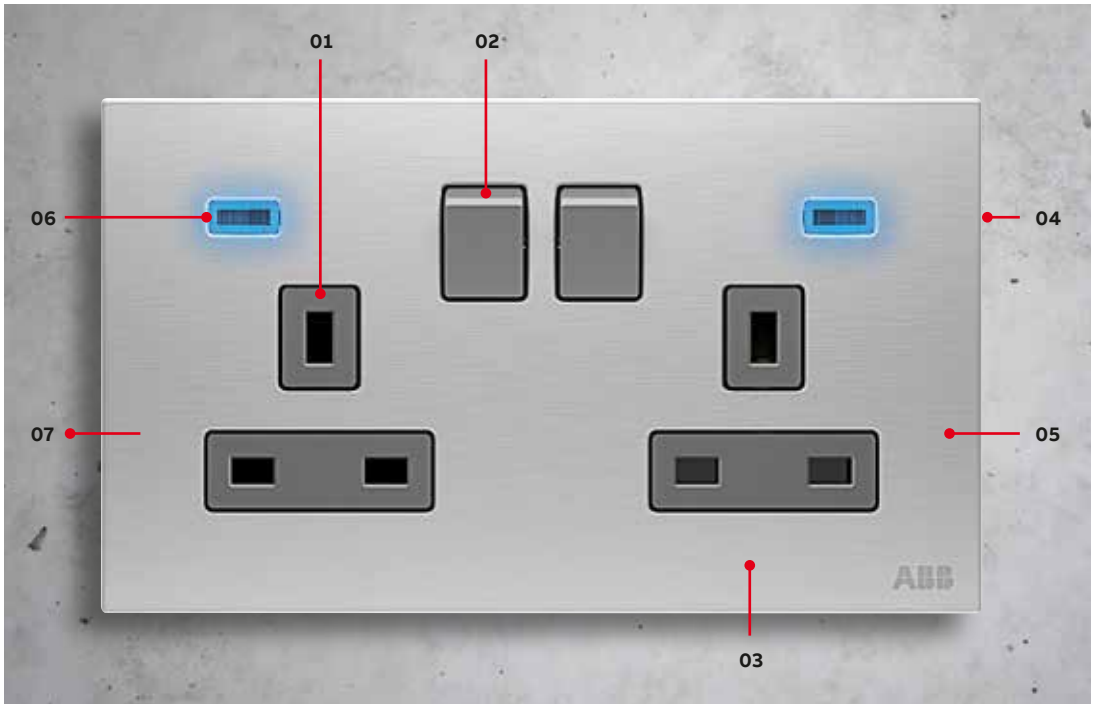


—
Premium rocker switch

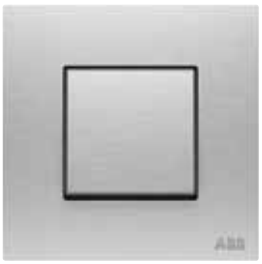


—
Frame

—
01 Earth Pin Child safety shutter system. Designed to inhibit access to electricity supply
—
02 Double pole switching
—
03 Four high quality finishes combinable to reach sixteen combinations in Stainless Steel material AISI 304
—
04 Styling slim-line design frontplate profile only 4 mm
—
05 Adaptable to the market wallboxes
—
06 Load indicator in blue LED. Less energy consumption, more durability and stylish signaling
—
07 Pure Stainless Steel AISI 304 with highest corrosion protection



Millenium – Complete sets (AM)



ST



ST

Millenium offers high quality complete sets. Each unique reference contains mechanism, frame and mounting plate; making easier the ordering, handling and installation. A reliable and complete collection with all functionality at first sight.
Millenium offers a wide and elegant choice of finishes in stainless steel AISI 304 material: from the Brush Stainless Steel, to the soft new touch given by the Silk Black, and the luxury of the sophisticated gold finishes, Matt Gold and Antique Gold.

ST	Stainless Steel
SB	Silk Black *
MG	Matt Gold
AG	Antique Gold
WG	White Glass
BG	Black Glass

* Silk Black not suitable to installation outdoors

1 Gang switches - Standard rocker

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 1-gang, 1-way, SP 10AX** Rated voltage: 250Vac Rated current: 10AX		
Stainless Steel	**AM10120-ST**	2CLA610109N1101	1
	**Switch 1-gang, 2-way, SP 10AX** Rated voltage: 250Vac Rated current: 10AX		
Stainless Steel	**AM10520-ST**	2CLA610209N1101	1
	**Switch 1-gang, intermediate, SP 10AX** Rated voltage: 250Vac Rated current: 10AX		
Stainless Steel	**AM11920-ST**	2CLA611009N1101	1
	**Switch 1-gang, 1-way, SP 20AX** Rated voltage: 250Vac Rated current: 20AX		
Stainless Steel	**AM11020-ST**	2CLA610119N1101	1
	**Switch 1-gang, 2-way, SP 20 AX** Rated voltage: 250Vac Rated current: 20AX		
Stainless Steel	**AM11520-ST**	2CLA610219N1101	1

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 1-gang, 1-way, DP 20AX** Rated voltage: 250Vac Rated current: 20AX Status indicator LED		
Stainless Steel	**AM11120-ST**	2CLA610139N1101	1
	**Switch 1-gang, 1-way, DP water heater 20AX** Rated voltage: 250Vac Rated current: 20AX Water heater indicator LED		
Stainless Steel	**AM10920-ST**	2CLA610149N1101	1
	**Push-button 1-gang, 1-way, SP 10A** Rated voltage: 250Vac Rated current: 10A		
Stainless Steel	**AM43020-ST**	2CLA610409N1101	1
	**Push-button 1-gang, 1-way, SP with bell symbol** Rated voltage: 250Vac Rated current: 10A Bell symbol indicator LED		
Stainless Steel	**AM42920-ST**	2CLA610449N1101	1

Millenium - Complete sets (AM)

1 Gang switches. Premium rocker

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 1-gang, 1-way, SP premium 10AX** Rated voltage: 250Vac Rated current: 10AX Premium size rocker		
Stainless Steel	**AM10144-ST**	2CLA620109N1101	1
	**Switch 1-gang, 2-way, SP premium 10AX** Rated voltage: 250Vac Rated current: 10AX Premium size rocker		
Stainless Steel	**AM10544-ST**	2CLA620209N1101	1
	**Switch 1-gang, intermediate, SP premium 10AX** Rated voltage: 250Vac Rated current: 10AX Premium size rocker		
Stainless Steel	**AM11944-ST**	2CLA621009N1101	1
	**Switch 1-gang, 1-way, SP premium 20AX** Rated voltage: 250Vac Rated current: 20AX Premium size rocker		
Stainless Steel	**AM11044-ST**	2CLA620119N1101	1
	**Switch 1-gang, 2-way, SP premium 20AX** Rated voltage: 250Vac Rated current: 20AX Premium size rocker		
Stainless Steel	**AM11544-ST**	2CLA620219N1101	1
	**Switch 1-gang, 2-way, DP premium 20AX w/LED** Rated voltage: 250Vac Rated current: 20A Status indicator LED Premium size rocker		
Stainless Steel	**AM11144-ST**	2CLA620139N1101	1
	**Switch 1-gang, 2-way, DP premium 32AX w/LED** Rated voltage: 250Vac Rated current: 32A Status indicator LED Premium size rocker		
Stainless Steel	**AM11244-ST**	2CLA620189N1101	1

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 1-gang, 1-way, DP premium 45A** Rated voltage: 250Vac Rated current: 45A Status indicator LED Premium size rocker		
Stainless Steel	**AM17744-ST**	2CLA620149N1101	1
Silk Black	**AM17744-SB**	2CLA620149N1501	1
Antique Gold	**AM17744-AG**	2CLA620149N1601	1
Matt Gold	**AM17744-MG**	2CLA620149N1701	1
White Glass	**AM17744-WG**	2CLA620149N3001	1
Black Glass	**AM17744-BG**	2CLA620149N3101	1
	**Switch 1-gang, 1-way, DP premium 45A, large size** Rated voltage: 250Vac Rated current: 45A Status indicator LED Premium size rocker For 6x3 inch. boxes		
Stainless Steel	**AM17844-ST**	2CLA620169N1101	1
Silk Black	**AM17844-SB**	2CLA620169N1501	1
Antique Gold	**AM17844-AG**	2CLA620169N1601	1
Matt Gold	**AM17844-MG**	2CLA620169N1701	1
White Glass	**AM17844-WG**	2CLA620169N3001	1
Black Glass	**AM17844-BG**	2CLA620169N3101	1

1 Gang push buttons - Premium rocker

	**Push-button 1-gang, 1-way, SP premium 10A** Rated voltage: 250Vac Rated current: 10A Premium size rocker		
Stainless Steel	**AM43044-ST**	2CLA620409N1101	1
	**Push-button 1-gang, 1-way, SP premium w/bell symbol 10A** Rated voltage: 250Vac Rated current: 10A Bell symbol indicator LED Premium size rocker		
Stainless Steel	**AM42944-ST**	2CLA620449N1101	1

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2 Gang switches

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 2-gang, 1-way, SP 10AX** Rated voltage: 250Vac Rated current: 2 x 10AX		
Stainless Steel	**AM10244-ST**	2CLA621109N1101	1
	**Switch 2-gang, 2-way, SP 10AX** Rated voltage: 250Vac Rated current: 2 x 10AX		
Stainless Steel	**AM10644-ST**	2CLA622209N1101	1
	**Switch 2-gang, 1-way, SP 20AX** Rated voltage: 250Vac Rated current: 2 x 20AX		
Stainless Steel	**AM11444-ST**	2CLA621119N1101	1
	**Switch 2-gang, 2-way, SP 20AX** Rated voltage: 250Vac Rated current: 2 x 20AX		
Stainless Steel	**AM11644-ST**	2CLA622219N1101	1

3 Gang switches

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 3-gang, 2-way, SP 10AX** Rated voltage: 250Vac Rated current: 10AX Total		
Stainless Steel	**AM10753-ST**	2CLA630209N1101	1
	**Switch 3-gang, 2-way, SP 16AX** Rated voltage: 250Vac Rated current: 16AX Total		
Stainless Steel	**AM12153-ST**	2CLA630219N1101	1
	**Push-button 3-gang, 1-way, SP 10AX** Rated voltage: 250Vac Rated current: 10AX Total		
Stainless Steel	**AM43053-ST**	2CLA630409N1101	1

4 Gang switches

	**Switch 4-gang, 2-way, SP 10AX** Rated voltage: 250Vac Rated current: 4 x 10AX		
Stainless Steel	**AM19188-ST**	2CLA640209N1101	1
	**Switch 4-gang, 2-way, SP 20AX** Rated voltage: 250Vac Rated current: 4 x 20AX		
Stainless Steel	**AM19588-ST**	2CLA640219N1101	1

Other

	**Fan isolator 3 poles 10A** Rated voltage: 250Vac Rated current: 10A Premium size rocker		
Stainless Steel	**AM13444-ST**	2CLA620509N1101	1

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Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**BS SP switched socket outlet 13A** Rated voltage: 250Vac Rated current: 13A Single pole Dual earth with child safety shutter system		
Stainless Steel	**AM23386-ST**	2CLA623739N1101	1
Silk Black	**AM23386-SB**	2CLA623739N1501	1
Antique Gold	**AM23386-AG**	2CLA623739N1601	1
Matt Gold	**AM23386-MG**	2CLA623739N1701	1
White Glass	**AM23386-WG**	2CLA623739N3001	1
Black Glass	**AM23386-BG**	2CLA623739N3101	1
	**BS DP switched socket outlet 13A** Rated voltage: 250Vac Rated current: 13A Double pole Dual earth with child safety shutter system		
Stainless Steel	**AM23786-ST**	2CLA623719N1101	1
Silk Black	**AM23786-SB**	2CLA623719N1501	1
Antique Gold	**AM23786-AG**	2CLA623719N1601	1
Matt Gold	**AM23786-MG**	2CLA623719N1701	1
White Glass	**AM23786-WG**	2CLA623719N3001	1
Black Glass	**AM23786-BG**	2CLA623719N3101	1
	**BS SP switched socket outlet w/LED 13A** Rated voltage: 250Vac Rated current: 13A Single pole Indicator LED Dual earth with child safety shutter system		
Stainless Steel	**AM23486-ST**	2CLA623749N1101	1
Silk Black	**AM23486-SB**	2CLA623749N1501	1
Antique Gold	**AM23486-AG**	2CLA623749N1601	1
Matt Gold	**AM23486-MG**	2CLA623749N1701	1
White Glass	**AM23486-WG**	2CLA623749N3001	1
Black Glass	**AM23486-BG**	2CLA623749N3101	1
	**BS DP switched socket outlet w/LED 13A** Rated voltage: 250Vac Rated current: 13A Double pole Indicator LED Dual earth with child safety shutter system		
Stainless Steel	**AM23886-ST**	2CLA623729N1101	1
Silk Black	**AM23886-SB**	2CLA623729N1501	1
Antique Gold	**AM23886-AG**	2CLA623729N1601	1
Matt Gold	**AM23886-MG**	2CLA623729N1701	1
White Glass	**AM23886-WG**	2CLA623729N3001	1
Black Glass	**AM23886-BG**	2CLA623729N3101	1

Product	Article-No.	Order-No.	Pack/Qty
	**BS DP switched socket outlet, 2-gang 13A** Rated voltage: 250Vac Rated current: 13A Double pole Dual earth with child safety shutter system		
Stainless Steel	**AM239147-ST**	2CLA643719N1101	1
Silk Black	**AM239147-SB**	2CLA643719N1501	1
Antique Gold	**AM239147-AG**	2CLA643719N1601	1
Matt Gold	**AM239147-MG**	2CLA643719N1701	1
White Glass	**AM239147-WG**	2CLA643719N3001	1
Black Glass	**AM239147-BG**	2CLA643719N3101	1
	**BS DP switched SO w/LED, 2-gang 13A** Rated voltage: 250Vac Rated current: 13A Double pole Indicator LED Dual earth with child safety shutter system		
Stainless Steel	**AM240147-ST**	2CLA643729N1101	1
Silk Black	**AM240147-SB**	2CLA643729N1501	1
Antique Gold	**AM240147-AG**	2CLA643729N1601	1
Matt Gold	**AM240147-MG**	2CLA643729N1701	1
White Glass	**AM240147-WG**	2CLA643729N3001	1
Black Glass	**AM240147-BG**	2CLA643729N3101	1
	**Cooker control unit** Rated voltage: 250Vac Main switch: Rated current: 45A Double pole Indicator LED Socket outlet: Rated current: 13A Child safety shutter system Indicator LED Flush wall box 45mm		
Stainless Steel	**AM118147-ST**	2CLA643749N1101	1
Silk Black	**AM118147-SB**	2CLA643749N1501	1
Antique Gold	**AM118147-AG**	2CLA643749N1601	1
Matt Gold	**AM118147-MG**	2CLA643749N1701	1
White Glass	**AM118147-WG**	2CLA643749N3001	1
Black Glass	**AM118147-BG**	2CLA643749N3101	1

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Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**BS DP round pin switched outlet 5A** Rated voltage: 250Vac Rated current: 5A Double pole Child safety shutter system		
Stainless Steel	**AM22186-ST**	2CLA623759N1101	1
Silk Black	**AM22186-SB**	2CLA623759N1501	1
Antique Gold	**AM22186-AG**	2CLA623759N1601	1
Matt Gold	**AM22186-MG**	2CLA623759N1701	1
White Glass	**AM22186-WG**	2CLA623759N3001	1
Black Glass	**AM22186-BG**	2CLA623759N3101	1
	**BS DP round pin switched outlet 15A** Rated voltage: 250Vac Rated current: 15A Double pole Child safety shutter system		
Stainless Steel	**AM20986-ST**	2CLA623769N1101	1
Silk Black	**AM20986-SB**	2CLA623769N1501	1
Antique Gold	**AM20986-AG**	2CLA623769N1601	1
Matt Gold	**AM20986-MG**	2CLA623769N1701	1
White Glass	**AM20986-WG**	2CLA623769N3001	1
Black Glass	**AM20986-BG**	2CLA623769N3101	1
	**BS DP round pin switched outlet w/LED 15A** Rated voltage: 250Vac Rated current: 15A Double pole Indicator LED Child safety shutter system		
Stainless Steel	**AM23186-ST**	2CLA623779N1101	1
Silk Black	**AM23186-SB**	2CLA623779N1501	1
Antique Gold	**AM23186-AG**	2CLA623779N1601	1
Matt Gold	**AM23186-MG**	2CLA623779N1701	1
White Glass	**AM23186-WG**	2CLA623779N3001	1
Black Glass	**AM23186-BG**	2CLA623779N3101	1
	**Universal switched socket outlet 13A** Rated voltage: 250Vac Rated current: 13A Child safety shutter system		
Stainless Steel	**AM29486-ST**	2CLA623919N1101	1
Silk Black	**AM29486-SB**	2CLA623919N1501	1
Antique Gold	**AM29486-AG**	2CLA623919N1601	1
Matt Gold	**AM29486-MG**	2CLA623919N1701	1
White Glass	**AM29486-WG**	2CLA623919N3001	1
Black Glass	**AM29486-BG**	2CLA623919N3101	1

Socket outlets with USB charger

Product	Article-No.	Order-No.	Pack/Qty
	**BS unswitched SO with USB charger, 1-gang 13A** Rated voltage: 250Vac / 50-60 Hz Rated current: 13A Unswitched USB charger type A: 10.5W (5V - 2.1A)		
Stainless Steel	**AM23686-ST**	2CLA623798N1101	1
Silk Black	**AM23686-SB**	2CLA623798N1501	1
Antique Gold	**AM23686-AG**	2CLA623798N1601	1
Matt Gold	**AM23686-MG**	2CLA623798N1701	1
White Glass	**AM23686-WG**	2CLA623798N3001	1
Black Glass	**AM23686-BG**	2CLA623798N3101	1
	**BS SP switched SO with USB charger, 1-gang 13A** Rated voltage: 250Vac / 50-60 Hz Rated current: 13A Single pole USB charger type A: 10.5W (5V - 2.1A)		
Stainless Steel	**AM23586-ST**	2CLA623788N1101	1
Silk Black	**AM23586-SB**	2CLA623788N1501	1
Antique Gold	**AM23586-AG**	2CLA623788N1601	1
Matt Gold	**AM23586-MG**	2CLA623788N1701	1
White Glass	**AM23586-WG**	2CLA623788N3001	1
Black Glass	**AM23586-BG**	2CLA623788N3101	1
	**BS unswitched SO with USB charger, 2-gang 13A** Rated voltage: 250Vac / 50-60 Hz Rated current: 13A Unswitched USB charger type A: 13W (5V - 2.6A)		
Stainless Steel	**AM236147-ST**	2CLA643798N1101	1
Silk Black	**AM236147-SB**	2CLA643798N1501	1
Antique Gold	**AM236147-AG**	2CLA643798N1601	1
Matt Gold	**AM236147-MG**	2CLA643798N1701	1
White Glass	**AM236147-WG**	2CLA643798N3001	1
Black Glass	**AM236147-BG**	2CLA643798N3101	1
	**BS SP switched SO with USB charger, 2-gang 13A** Rated voltage: 250Vac / 50-60 Hz Rated current: 13A Single pole USB charger type A: 13W (5V - 2.6A)		
Stainless Steel	**AM235147-ST**	2CLA643788N1101	1
Silk Black	**AM235147-SB**	2CLA643788N1501	1
Antique Gold	**AM235147-AG**	2CLA643788N1601	1
Matt Gold	**AM235147-MG**	2CLA643788N1701	1
White Glass	**AM235147-WG**	2CLA643788N3001	1
Black Glass	**AM235147-BG**	2CLA643788N3101	1

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Voice data & information connectors

Product	Article-No.	Order-No.	Pack/Qty
	**Computer outlet RJ45 Cat. 6 UTP, 1-gang** 8 pole UTP		
Stainless Steel	**AM33344-ST**	2CLA611869N1101	1
Silk Black	**AM33344-SB**	2CLA611869N1501	1
Antique Gold	**AM33344-AG**	2CLA611869N1601	1
Matt Gold	**AM33344-MG**	2CLA611869N1701	1
White Glass	**AM33344-WG**	2CLA611869N3001	1
Black Glass	**AM33344-BG**	2CLA611869N3101	1
	**Computer outlet RJ45 Cat. 6A, 1-gang** 8 pole Cat 6A		
Stainless Steel	**AM33644-ST**	2CLA611879N1101	1
Silk Black	**AM33644-SB**	2CLA611879N1501	1
Antique Gold	**AM33644-AG**	2CLA611879N1601	1
Matt Gold	**AM33644-MG**	2CLA611879N1701	1
White Glass	**AM33644-WG**	2CLA611879N3001	1
Black Glass	**AM33644-BG**	2CLA611879N3101	1
	**Computer outlet RJ45 Cat. 6 UTP, 2-gang** 8 pole UTP		
Stainless Steel	**AM32944-ST**	2CLA621869N1101	1
Silk Black	**AM32944-SB**	2CLA621869N1501	1
Antique Gold	**AM32944-AG**	2CLA621869N1601	1
Matt Gold	**AM32944-MG**	2CLA621869N1701	1
White Glass	**AM32944-WG**	2CLA621869N3001	1
Black Glass	**AM32944-BG**	2CLA621869N3101	1
	**Computer outlet RJ45 Cat. 6A, 2-gang** 8 pole Cat 6A		
Stainless Steel	**AM33744-ST**	2CLA621879N1101	1
Silk Black	**AM33744-SB**	2CLA621879N1501	1
Antique Gold	**AM33744-AG**	2CLA621879N1601	1
Matt Gold	**AM33744-MG**	2CLA621879N1701	1
White Glass	**AM33744-WG**	2CLA621879N3001	1
Black Glass	**AM33744-BG**	2CLA621879N3101	1

Product	Article-No.	Order-No.	Pack/Qty
	**Telephone outlet RJ11, 1-gang** 4 pole UTP		
Stainless Steel	**AM32144-ST**	2CLA611709N1101	1
Silk Black	**AM32144-SB**	2CLA611709N1501	1
Antique Gold	**AM32144-AG**	2CLA611709N1601	1
Matt Gold	**AM32144-MG**	2CLA611709N1701	1
White Glass	**AM32144-WG**	2CLA611709N3001	1
Black Glass	**AM32144-BG**	2CLA611709N3101	1
	**BT master telephone outlet RJ11/RJ12, 1-gang** BT master 6 pole UTP		
Stainless Steel	**AM30544-ST**	2CLA611889N1101	1
Silk Black	**AM30544-SB**	2CLA611889N1501	1
Antique Gold	**AM30544-AG**	2CLA611889N1601	1
Matt Gold	**AM30544-MG**	2CLA611889N1701	1
White Glass	**AM30544-WG**	2CLA611889N3001	1
Black Glass	**AM30544-BG**	2CLA611889N3101	1
	**BT secondary telephone outlet RJ11/RJ12, 1-gang** BT secondary 6 pole UTP		
Stainless Steel	**AM30644-ST**	2CLA611899N1101	1
Silk Black	**AM30644-SB**	2CLA611899N1501	1
Antique Gold	**AM30644-AG**	2CLA611899N1601	1
Matt Gold	**AM30644-MG**	2CLA611899N1701	1
White Glass	**AM30644-WG**	2CLA611899N3001	1
Black Glass	**AM30644-BG**	2CLA611899N3101	1

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Voice data & information connectors

Product	Article-No.	Order-No.	Pack/Qty
	**TV outlet, 1-gang** M type isolated dead-end-feeder.		
Stainless Steel	**AM30144-ST**	2CLA615009N1101	1
Silk Black	**AM30144-SB**	2CLA615009N1501	1
Antique Gold	**AM30144-AG**	2CLA615009N1601	1
Matt Gold	**AM30144-MG**	2CLA615009N1701	1
White Glass	**AM30144-WG**	2CLA615009N3001	1
Black Glass	**AM30144-BG**	2CLA615009N3101	1
	**TV/SAT outlet** F type isolated dead-end-feeder with filter.		
Stainless Steel	**AM31344-ST**	2CLA625009N1101	1
Silk Black	**AM31344-SB**	2CLA625009N1501	1
Antique Gold	**AM31344-AG**	2CLA625009N1601	1
Matt Gold	**AM31344-MG**	2CLA625009N1701	1
White Glass	**AM31344-WG**	2CLA625009N3001	1
Black Glass	**AM31344-BG**	2CLA625009N3101	1
	**SAT outlet** F type isolated dead-end-feeder.		
Stainless Steel	**AM30344-ST**	2CLA615109N1101	1
Silk Black	**AM30344-SB**	2CLA615109N1501	1
Antique Gold	**AM30344-AG**	2CLA615109N1601	1
Matt Gold	**AM30344-MG**	2CLA615109N1701	1
White Glass	**AM30344-WG**	2CLA615109N3001	1
Black Glass	**AM30344-BG**	2CLA615109N3101	1
	**SAT twin outlet F type** F type isolated dead-end-feeder.		
Stainless Steel	**AM32344-ST**	2CLA625109N1101	1
Silk Black	**AM32344-SB**	2CLA625109N1501	1
Antique Gold	**AM32344-AG**	2CLA625109N1601	1
Matt Gold	**AM32344-MG**	2CLA625109N1701	1
White Glass	**AM32344-WG**	2CLA625109N3001	1
Black Glass	**AM32344-BG**	2CLA625109N3101	1

Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**Double LED/Universal Rotary dimmer** Rated voltage: 250Vac / 50-60 Hz Power (min./max load): - LEDi (trailing-edge lamps): 4 / 125 W/VA. - LEDi (leading-edge lamps): 4 / 30 W/VA.* - LV LEDi with transformer type C: 4 / 125 W/VA. - LV LEDi with transformer type LC: 4 / 30 W/VA.* - LV halogen with transformer type C: 4 / 125 W/VA. - LV halogen with transformer type LC: 4 / 125 W/VA. - Incandescent lamps: 4 / 125 W/VA. - Halogen lamps: 4 / 125 W/VA. *Max. 10 lamps.		
Stainless Steel	**AM41144-ST**	2CLA616049N1101	1
Silk Black	**AM41144-SB**	2CLA616049N1501	1
Antique Gold	**AM41144-AG**	2CLA616049N1601	1
Matt Gold	**AM41144-MG**	2CLA616049N1701	1
White Glass	**AM41144-WG**	2CLA616049N3001	1
Black Glass	**AM41144-BG**	2CLA616049N3101	1
	**Rotary dimmer** Rated voltage: 250V~ +/-10 50 Hz. Min. power: 40W / VA. Max. power: - Incandescent lamps: 400W. - Halogen lamps with ferromagnetic transformers: 300 VA. Operating temperature: 0° C to +30° C.		
Stainless Steel	**AM41344-ST**	2CLA626039N1101	1
Silk Black	**AM41344-SB**	2CLA626039N1501	1
Antique Gold	**AM41344-AG**	2CLA626039N1601	1
Matt Gold	**AM41344-MG**	2CLA626039N1701	1
White Glass	**AM41344-WG**	2CLA626039N3001	1
Black Glass	**AM41344-BG**	2CLA626039N3101	1

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Thermostats

Product	Article-No.	Order-No.	Pack/Qty
	**Thermostat 2 pipe w/blue display** Rated voltage: 250Vac Rated power: 200W Sensor: NTC Temperature setting: 5° C - 35° C Temp adjustment: +/- 1° C Depth: 25,5 mm.		
Stainless Steel	**AM41786-ST**	2CLA624059N1101	1
Silk Black	**AM41786-SB**	2CLA624059N1501	1
Antique Gold	**AM41786-AG**	2CLA624059N1601	1
Matt Gold	**AM41786-MG**	2CLA624059N1701	1
White Glass	**AM41786-WG**	2CLA624059N3001	1
Black Glass	**AM41786-BG**	2CLA624059N3101	1
	**Thermostat 4 pipe w/blue display** Rated voltage: 250Vac Rated power: 200W Sensor: NTC Temperature setting: 5° C - 35° C Temp adjustment: +/- 1° C Depth: 25,5 mm.		
Stainless Steel	**AM42086-ST**	2CLA624069N1101	1
Silk Black	**AM42086-SB**	2CLA624069N1501	1
Antique Gold	**AM42086-AG**	2CLA624069N1601	1
Matt Gold	**AM42086-MG**	2CLA624069N1701	1
White Glass	**AM42086-WG**	2CLA624069N3001	1
Black Glass	**AM42086-BG**	2CLA624069N3101	1

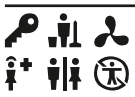
Hotel equipment

Product	Article-No.	Order-No.	Pack/Qty
	**Push button, DND/MUR with bell symbol 10A** Rated voltage: 250Vac Rated current 10A Red LED: „Do Not Disturb“ Green LED: „Make Up Room“ Premium size rocker		
Stainless Steel	**AM40344-ST**	2CLA621589N1101	1
	**Switch 2-gang, DND/MUR 10AX** Rated voltage: 250Vac Rated current 10AX Red LED: „Do Not Disturb“ Green LED: „Make Up Room“ LED signaling		
Stainless Steel	**AM40444-ST**	2CLA621509N1101	1
	**Switch blind control** Rated voltage 250Vac Rated current 16AX Output: 2 normally open contact Multi-way input terminal (up/down)		
Stainless Steel	**AM11844-ST**	2CLA624419N1101	1
	**Card switch 16AX** Rated voltage: 250Vac Rated current: 16AX Includes indication LED		
Stainless Steel	**AM40244-ST**	2CLA621419N1101	1
Silk Black	**AM40244-SB**	2CLA621419N1501	1
Antique Gold	**AM40244-AG**	2CLA621419N1601	1
Matt Gold	**AM40244-MG**	2CLA621419N1701	1
White Glass	**AM40244-WG**	2CLA621419N3001	1
Black Glass	**AM40244-BG**	2CLA621419N3101	1
	**Electronic card switch 16AX** Rated voltage: 250Vac Rated current: 16AX Includes indication LED Time relay : 5-90 sec. Cards up to 54 mm width.		
Stainless Steel	**AM40544-ST**	2CLA621459N1101	1
Silk Black	**AM40544-SB**	2CLA621459N1501	1
Antique Gold	**AM40544-AG**	2CLA621459N1601	1
Matt Gold	**AM40544-MG**	2CLA621459N1701	1
White Glass	**AM40544-WG**	2CLA621459N3001	1
Black Glass	**AM40544-BG**	2CLA621459N3101	1
	**Spare Led for card switches** Rated voltage: 250Vac Rated current: 0.7mA Frontal replacement.		
	AM50093-BL	2CLA619309N1001	1
	**Shaver socket outlet** Rated voltage: 20VA / 230Vac Outputs: 115V and 230V Dimensions: 150x90x54mm Flush wall box not included (45mm depth minimum)		
Stainless Steel	**AM40188-ST**	2CLA680309N1101	1
Silk Black	**AM40188-SB**	2CLA680309N1501	1
Antique Gold	**AM40188-AG**	2CLA680309N1601	1
Matt Gold	**AM40188-MG**	2CLA680309N1701	1
White Glass	**AM40188-WG**	2CLA680309N3001	1
Black Glass	**AM40188-BG**	2CLA680309N3101	1
	**Flush mounting box** For shaver socket outlet AM40188-XX Dimensions: 135,5 x 74 x 50 mm“		
	803.2	2CLA080320A1001	1

Millenium - Complete sets (AM)

Various

Product	Article-No.	Order-No.	Pack/Qty
	**Blank plate** Premium size		
Stainless Steel	**AM50444-ST**	2CLA620009N1101	1
Silk Black	**AM50444-SB**	2CLA620009N1501	1
Antique Gold	**AM50444-AG**	2CLA620009N1601	1
Matt Gold	**AM50444-MG**	2CLA620009N1701	1
White Glass	**AM50444-WG**	2CLA620009N3001	1
Black Glass	**AM50444-BG**	2CLA620009N3101	1
	**Flex outlet 20A** Rated current: 20A		
Stainless Steel	**AM55044-ST**	2CLA620729N1101	1
Silk Black	**AM55044-SB**	2CLA620729N1501	1
Antique Gold	**AM55044-AG**	2CLA620729N1601	1
Matt Gold	**AM55044-MG**	2CLA620729N1701	1
White Glass	**AM55044-WG**	2CLA620729N3001	1
Black Glass	**AM55044-BG**	2CLA620729N3101	1
	**Flex outlet 45A** Rated current: 45A		
Anthracite	**AM56086-AN**	2CLA620739N1801	1
White Plastic	**AM56086-WP**	2CLA620739N2001	1

Product	Article-No.	Order-No.	Pack/Qty
	**Fuse connection unit w/flex outlet 13A** Rated voltage: 230Vac Rated current: 13A Fuse size: Ø6.3x25mm Fuse breaking capacity: 6kA 264V~ 50Hz Fuse according to BS1362		
Stainless Steel	**AM50653-ST**	2CLA630809N1101	1
Silk Black	**AM50653-SB**	2CLA630809N1501	1
Antique Gold	**AM50653-AG**	2CLA630809N1601	1
Matt Gold	**AM50653-MG**	2CLA630809N1701	1
White Glass	**AM50653-WG**	2CLA630809N3001	1
Black Glass	**AM50653-BG**	2CLA630809N3101	1
	**Fuse connection unit w/flex outlet w/LED 13A** Rated voltage: 230Vac Rated current: 13A Fuse size: Ø6.3x25mm Fuse breaking capacity: 6kA 264V~ 50Hz Fuse according to BS1362 Status indicator LED		
Stainless Steel	**AM50853-ST**	2CLA630859N1101	1
Silk Black	**AM50853-SB**	2CLA630859N1501	1
Antique Gold	**AM50853-AG**	2CLA630859N1601	1
Matt Gold	**AM50853-MG**	2CLA630859N1701	1
White Glass	**AM50853-WG**	2CLA630859N3001	1
Black Glass	**AM50853-BG**	2CLA630859N3101	1
	**Switched fuse connection unit w/flex outlet w/LED 13A** Rated voltage: 230Vac Rated current: 13A Fuse size: Ø6.3x25mm Fuse breaking capacity: 6kA 264V~ 50Hz Fuse according to BS1362 Status indicator LED		
Stainless Steel	**AM50753-ST**	2CLA630829N1101	1
Silk Black	**AM50753-SB**	2CLA630829N1501	1
Antique Gold	**AM50753-AG**	2CLA630829N1601	1
Matt Gold	**AM50753-MG**	2CLA630829N1701	1
White Glass	**AM50753-WG**	2CLA630829N3001	1
Black Glass	**AM50753-BG**	2CLA630829N3101	1
	For use with: AM11120-XX, AMD11120-XX, AM18120-XX, AMD18120-XX, AM42920-XX, AMD42920-XX, AM42944-XX and AMD42944-XX.		
Key symbol	**AM50100-CH**	2CLA600100N1101	10
Fan symbol	**AM50200-CH**	2CLA600100N1201	10
Wc symbol	**AM50300-CH**	2CLA600100N1301	10
Room service symbol	**AM50400-CH**	2CLA600100N1401	10
Nurse symbol	**AM50500-CH**	2CLA600100N1501	10
Stop symbol	**AM50600-CH**	2CLA600100N1601	10

Millenium - Grid system for combination (AMD)

Millenium collection is a grid type system enabling combination of colours and products of different dimension and functionality. The three type of switch dimensions together with the ABB i-bus® KNX and ABB-free@home® sensors and other functions, have to be composed with the required frame in order to have the right assortment of functionality and design. In ABB i-bus® KNX sensors we have the possibility to adjoin to the frame the special metal mounting plate that allows to reduce the height so as to maintain the ultra slim line for KNX functionalities.



Mounting Plate



Premium rocker switch



Frame

Standard rocker switch

Product	Article-No.	Order-No.	Pack/Qty
	Switch 1-gang, 1-way, SP 10AX Rated voltage: 250Vac Rated current: 10AX		
Stainless Steel	**AMD10120-ST**	2CLA610100N1101	10
Silk Black	**AMD10120-SB**	2CLA610100N1501	10
Antique Gold	**AMD10120-AG**	2CLA610100N1601	10
Matt Gold	**AMD10120-MG**	2CLA610100N1701	10
White Glass	**AMD10120-WG**	2CLA610100N3001	10
Black Glass	**AMD10120-BG**	2CLA610100N3101	10
	Switch 1-gang, 2-way, SP 10AX Rated voltage: 250Vac Rated current: 10AX		
Stainless Steel	AMD10520-ST	2CLA610200N1101	10
Silk Black	AMD10520-SB	2CLA610200N1501	10
Antique Gold	AMD10520-AG	2CLA610200N1601	10
Matt Gold	AMD10520-MG	2CLA610200N1701	10
White Glass	AMD10520-WG	2CLA610200N3001	5
Black Glass	AMD10520-BG	2CLA610200N3101	5

Product	Article-No.	Order-No.	Pack/Qty
	Switch 1-gang, intermediate, SP 10AX Rated voltage: 250Vac Rated current: 10AX		
Stainless Steel	**AMD11920-ST**	2CLA611000N1101	10
Silk Black	**AMD11920-SB**	2CLA611000N1501	10
Antique Gold	**AMD11920-AG**	2CLA611000N1601	10
Matt Gold	**AMD11920-MG**	2CLA611000N1701	10
White Glass	**AMD11920-WG**	2CLA611000N3001	5
Black Glass	**AMD11920-BG**	2CLA611000N3101	5
	Switch 1-gang, 1-way, SP 20AX Rated voltage: 250Vac Rated current: 20AX		
Stainless Steel	**AMD11020-ST**	2CLA610110N1101	10
Silk Black	**AMD11020-SB**	2CLA610110N1501	10
Antique Gold	**AMD11020-AG**	2CLA610110N1601	10
Matt Gold	**AMD11020-MG**	2CLA610110N1701	10
White Glass	**AMD11020-WG**	2CLA610110N3001	10
Black Glass	**AMD11020-BG**	2CLA610110N3101	10

Millenium - Grid system for combination (AMD)

Standard rocker switch

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 1-gang, 2-way, SP 20AX** Rated voltage: 250Vac Rated current: 20AX		
Stainless Steel	**AMD11520-ST**	2CLA610210N1101	10
Silk Black	**AMD11520-SB**	2CLA610210N1501	10
Antique Gold	**AMD11520-AG**	2CLA610210N1601	10
Matt Gold	**AMD11520-MG**	2CLA610210N1701	10
White Glass	**AMD11520-WG**	2CLA610210N3001	5
Black Glass	**AMD11520-BG**	2CLA610210N3101	5
	**Switch 1-gang, 1-way, DP 20AX** Rated voltage: 250Vac Rated current: 20AX Status indicator LED		
Stainless Steel	**AMD11120-ST**	2CLA610130N1101	10
Silk Black	**AMD11120-SB**	2CLA610130N1501	10
Antique Gold	**AMD11120-AG**	2CLA610130N1601	10
Matt Gold	**AMD11120-MG**	2CLA610130N1701	10
White Glass	**AMD11120-WG**	2CLA610130N3001	5
Black Glass	**AMD11120-BG**	2CLA610130N3101	5
	**Switch 1-gang, 1-way, DP water heater 20AX** Rated voltage: 250Vac Rated current: 20AX Water heater indicator LED		
Stainless Steel	**AMD10920-ST**	2CLA610140N1101	10
Silk Black	**AMD10920-SB**	2CLA610140N1501	10
Antique Gold	**AMD10920-AG**	2CLA610140N1601	10
Matt Gold	**AMD10920-MG**	2CLA610140N1701	10
White Glass	**AMD10920-WG**	2CLA610140N3001	5
Black Glass	**AMD10920-BG**	2CLA610140N3101	5
	**Push-button 1-gang, 1-way, SP 10A** Rated voltage: 250Vac Rated current: 10A		
Stainless Steel	**AMD43020-ST**	2CLA610400N1101	10
Silk Black	**AMD43020-SB**	2CLA610400N1501	10
Antique Gold	**AMD43020-AG**	2CLA610400N1601	10
Matt Gold	**AMD43020-MG**	2CLA610400N1701	10
White Glass	**AMD43020-WG**	2CLA610400N3001	5
Black Glass	**AMD43020-BG**	2CLA610400N3101	5

Product	Article-No.	Order-No.	Pack/Qty
	**Push-button 1-gang, 1-way, SP with bell symbol 10A** Rated voltage: 250Vac Rated current: 10A Bell symbol indicator LED		
Stainless Steel	**AMD42920-ST**	2CLA610440N1101	10
Silk Black	**AMD42920-SB**	2CLA610440N1501	10
Antique Gold	**AMD42920-AG**	2CLA610440N1601	10
Matt Gold	**AMD42920-MG**	2CLA610440N1701	10
White Glass	**AMD42920-WG**	2CLA610440N3001	5
Black Glass	**AMD42920-BG**	2CLA610440N3101	5

Standard rocker switch frames

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker switch frame 1-gang** Includes metal mounting frame Dimensions 86x86 mm.		
Stainless Steel	**AMD5120-ST**	2CLA617100N1101	10
Silk Black	**AMD5120-SB**	2CLA617100N1501	10
Antique Gold	**AMD5120-AG**	2CLA617100N1601	10
Matt Gold	**AMD5120-MG**	2CLA617100N1701	10
White Glass	**AMD5120-WG**	2CLA617100N3001	4
Black Glass	**AMD5120-BG**	2CLA617100N3101	4

Millenium - Grid system for combination (AMD)

Premium rocker switch

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 1-gang, 1-way, SP premium 10AX** Rated voltage: 250Vac Rated current: 10AX Premium size rocker		
Stainless Steel	**AMD10144-ST**	2CLA620100N1101	10
Silk Black	**AMD10144-SB**	2CLA620100N1501	10
Antique Gold	**AMD10144-AG**	2CLA620100N1601	10
Matt Gold	**AMD10144-MG**	2CLA620100N1701	10
White Glass	**AMD10144-WG**	2CLA620100N3001	5
Black Glass	**AMD10144-BG**	2CLA620100N3101	5
	**Switch 1-gang, 2-way, SP premium 10AX** Rated voltage: 250Vac Rated current: 10AX Premium size rocker		
Stainless Steel	**AMD10544-ST**	2CLA620200N1101	10
Silk Black	**AMD10544-SB**	2CLA620200N1501	10
Antique Gold	**AMD10544-AG**	2CLA620200N1601	10
Matt Gold	**AMD10544-MG**	2CLA620200N1701	10
White Glass	**AMD10544-WG**	2CLA620200N3001	5
Black Glass	**AMD10544-BG**	2CLA620200N3101	5
	**Switch 1-gang, intermediate, SP premium 10AX** Rated voltage: 250Vac Rated current: 10AX Premium size rocker		
Stainless Steel	**AMD11944-ST**	2CLA621000N1101	10
Silk Black	**AMD11944-SB**	2CLA621000N1501	10
Antique Gold	**AMD11944-AG**	2CLA621000N1601	10
Matt Gold	**AMD11944-MG**	2CLA621000N1701	10
White Glass	**AMD11944-WG**	2CLA621000N3001	5
Black Glass	**AMD11944-BG**	2CLA621000N3101	5
	**Switch 1-gang, 1-way, SP premium 20AX** Rated voltage: 250Vac Rated current: 20AX Premium size rocker		
Stainless Steel	**AMD11044-ST**	2CLA620110N1101	10
Silk Black	**AMD11044-SB**	2CLA620110N1501	10
Antique Gold	**AMD11044-AG**	2CLA620110N1601	10
Matt Gold	**AMD11044-MG**	2CLA620110N1701	10
White Glass	**AMD11044-WG**	2CLA620110N3001	5
Black Glass	**AMD11044-BG**	2CLA620110N3101	5

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 1-gang, 2-way, SP premium 20AX** Rated voltage: 250Vac Rated current: 20AX Premium size rocker		
Stainless Steel	**AMD11544-ST**	2CLA620210N1101	10
Silk Black	**AMD11544-SB**	2CLA620210N1501	10
Antique Gold	**AMD11544-AG**	2CLA620210N1601	10
Matt Gold	**AMD11544-MG**	2CLA620210N1701	10
White Glass	**AMD11544-WG**	2CLA620210N3001	5
Black Glass	**AMD11544-BG**	2CLA620210N3101	5
	**Switch 1-gang, 2-way, DP premium 20AX w/LED** Rated voltage: 250Vac Rated current: 20A Status indicator LED Premium size rocker		
Stainless Steel	**AMD11140-ST**	2CLA620130N1101	10
Silk Black	**AMD11140-SB**	2CLA620130N1501	10
Antique Gold	**AMD11140-AG**	2CLA620130N1601	10
Matt Gold	**AMD11140-MG**	2CLA620130N1701	10
White Glass	**AMD11140-WG**	2CLA620130N3001	5
Black Glass	**AMD11140-BG**	2CLA620130N3101	5
	**Switch 1-gang, 2-way, DP premium 32AX w/LED** Rated voltage: 250Vac Rated current: 32A Status indicator LED Premium size rocker		
Stainless Steel	**AMD11240-ST**	2CLA620180N1101	10
Silk Black	**AMD11240-SB**	2CLA620180N1501	10
Antique Gold	**AMD11240-AG**	2CLA620180N1601	10
Matt Gold	**AMD11240-MG**	2CLA620180N1701	10
White Glass	**AMD11240-WG**	2CLA620180N3001	5
Black Glass	**AMD11240-BG**	2CLA620180N3101	5

Millenium - Grid system for combination (AMD)

Premium rocker push buttons

Product	Article-No.	Order-No.	Pack/Qty
	**Push-button 1-gang, 1-way, SP premium 10A** Rated voltage: 250Vac Rated current: 10A Premium size rocker		
Stainless Steel	**AMD43044-ST**	2CLA620400N1101	10
Silk Black	**AMD43044-SB**	2CLA620400N1501	10
Antique Gold	**AMD43044-AG**	2CLA620400N1601	10
Matt Gold	**AMD43044-MG**	2CLA620400N1701	10
White Glass	**AMD43044-WG**	2CLA620400N3001	5
Black Glass	**AMD43044-BG**	2CLA620400N3101	5
	**Push-button 1-gang, 1-way, SP premium w/bell symbol 10A** Rated voltage: 250Vac Rated current: 10A Bell symbol indicator LED Premium size rocker		
Stainless Steel	**AMD42944-ST**	2CLA620440N1101	10
Silk Black	**AMD42944-SB**	2CLA620440N1501	10
Antique Gold	**AMD42944-AG**	2CLA620440N1601	10
Matt Gold	**AMD42944-MG**	2CLA620440N1701	10
White Glass	**AMD42944-WG**	2CLA620440N3001	5
Black Glass	**AMD42944-BG**	2CLA620440N3101	5

Premium rocker frames

Product	Article-No.	Order-No.	Pack/Qty
	**Premium rocker switch frame 1-gang** Includes metal mounting frame Dimensions 86x86 mm.		
Stainless Steel	**AMD5044-ST**	2CLA617110N1101	10
Silk Black	**AMD5044-SB**	2CLA617110N1501	10
Antique Gold	**AMD5044-AG**	2CLA617110N1601	10
Matt Gold	**AMD5044-MG**	2CLA617110N1701	10
White Glass	**AMD5044-WG**	2CLA617110N3001	4
Black Glass	**AMD5044-BG**	2CLA617110N3101	4
	**Premium/double rocker switch frame 2-gang** Includes metal mounting frame Dimensions 86x147 mm.		
Stainless Steel	**AMD5244-ST**	2CLA647200N1101	10
Silk Black	**AMD5244-SB**	2CLA647200N1501	10
Antique Gold	**AMD5244-AG**	2CLA647200N1601	10
Matt Gold	**AMD5244-MG**	2CLA647200N1701	10
White Glass	**AMD5244-WG**	2CLA647200N3001	5
Black Glass	**AMD5244-BG**	2CLA647200N3101	5
	**Premium/half/double rocker switch frame 3-gang** Includes metal mounting frame Dimensions 86x228 mm.		
Stainless Steel	**AMD5344-ST**	2CLA667310N1101	5
Silk Black	**AMD5344-SB**	2CLA667310N1501	5
Antique Gold	**AMD5344-AG**	2CLA667310N1601	5
Matt Gold	**AMD5344-MG**	2CLA667310N1701	5
White Glass	**AMD5344-WG**	2CLA667310N3001	2
Black Glass	**AMD5344-BG**	2CLA667310N3101	2
	**Premium/half/double rocker switch frame 4-gang** Includes metal mounting frame Dimensions 86x293 mm.		
Stainless Steel	**AMD5444-ST**	2CLA687410N1101	5
Silk Black	**AMD5444-SB**	2CLA687410N1501	5
Antique Gold	**AMD5444-AG**	2CLA687410N1601	5
Matt Gold	**AMD5444-MG**	2CLA687410N1701	5
White Glass	**AMD5444-WG**	2CLA687410N3001	2
Black Glass	**AMD5444-BG**	2CLA687410N3101	2

Millenium - Grid system for combination (AMD)

Half/double rocker switches

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 1-gang, 1-way, half rocker 10AX** Rated voltage: 250Vac Rated current: 10AX Half rocker size		
Stainless Steel	**AMD10222-ST**	2CLA680100N1101	10
Silk Black	**AMD10222-SB**	2CLA680100N1501	10
Antique Gold	**AMD10222-AG**	2CLA680100N1601	10
Matt Gold	**AMD10222-MG**	2CLA680100N1701	10
White Glass	**AMD10222-WG**	2CLA680100N3001	5
Black Glass	**AMD10222-BG**	2CLA680100N3101	5
	**Switch 1-gang, 2-way, half rocker 10AX** Rated voltage: 250Vac Rated current: 10AX Half rocker size		
Stainless Steel	**AMD10622-ST**	2CLA680200N1101	10
Silk Black	**AMD10622-SB**	2CLA680200N1501	10
Antique Gold	**AMD10622-AG**	2CLA680200N1601	10
Matt Gold	**AMD10622-MG**	2CLA680200N1701	10
White Glass	**AMD10622-WG**	2CLA680200N3001	5
Black Glass	**AMD10622-BG**	2CLA680200N3101	5
	**Switch 1-gang, intermediate, half rocker 10AX** Rated voltage: 250Vac Rated current: 10AX Half rocker size		
Stainless Steel	**AMD12922-ST**	2CLA681000N1101	10
Silk Black	**AMD12922-SB**	2CLA681000N1501	10
Antique Gold	**AMD12922-AG**	2CLA681000N1601	10
Matt Gold	**AMD12922-MG**	2CLA681000N1701	10
White Glass	**AMD12922-WG**	2CLA681000N3001	5
Black Glass	**AMD12922-BG**	2CLA681000N3101	5
	**Push button 1-gang, 1-way, half rocker 10A** Rated voltage: 250Vac Rated current: 10A Half rocker size		
Stainless Steel	**AMD43222-ST**	2CLA680400N1101	10
Silk Black	**AMD43222-SB**	2CLA680400N1501	10
Antique Gold	**AMD43222-AG**	2CLA680400N1601	10
Matt Gold	**AMD43222-MG**	2CLA680400N1701	10
White Glass	**AMD43222-WG**	2CLA680400N3001	5
Black Glass	**AMD43222-BG**	2CLA680400N3101	5

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 1-gang, 1-way, half rocker 20AX** Rated voltage: 250Vac Rated current: 20AX Half rocker size		
Stainless Steel	**AMD11422-ST**	2CLA680110N1101	10
Silk Black	**AMD11422-SB**	2CLA680110N1501	10
Antique Gold	**AMD11422-AG**	2CLA680110N1601	10
Matt Gold	**AMD11422-MG**	2CLA680110N1701	10
White Glass	**AMD11422-WG**	2CLA680110N3001	5
Black Glass	**AMD11422-BG**	2CLA680110N3101	5
	**Switch 1-gang, 2-way, half rocker 20AX** Rated voltage: 250Vac Rated current: 20AX Half rocker size		
Stainless Steel	**AMD11622-ST**	2CLA680210N1101	10
Silk Black	**AMD11622-SB**	2CLA680210N1501	10
Antique Gold	**AMD11622-AG**	2CLA680210N1601	10
Matt Gold	**AMD11622-MG**	2CLA680210N1701	10
White Glass	**AMD11622-WG**	2CLA680210N3001	5
Black Glass	**AMD11622-BG**	2CLA680210N3101	5
	**Switch 1-gang, 1-way, DP premium 20AX w/LED** Rated voltage: 250Vac Rated current: 20A Status indicator LED Half rocker size – Left-side rocker		
Stainless Steel	**AMD11722-ST**	2CLA680220N1101	10
Silk Black	**AMD11722-SB**	2CLA680220N1501	10
Antique Gold	**AMD11722-AG**	2CLA680220N1601	10
Matt Gold	**AMD11722-MG**	2CLA680220N1701	10
White Glass	**AMD11722-WG**	2CLA680220N3001	5
Black Glass	**AMD11722-BG**	2CLA680220N3101	5
	**Switch 1-gang, 1-way, DP premium 20AX w/LED** Rated voltage: 250Vac Rated current: 20A Status indicator LED Half rocker size – Right-side rocker		
Stainless Steel	**AMD11822-ST**	2CLA680230N1101	10
Silk Black	**AMD11822-SB**	2CLA680230N1501	10
Antique Gold	**AMD11822-AG**	2CLA680230N1601	10
Matt Gold	**AMD11822-MG**	2CLA680230N1701	10
White Glass	**AMD11822-WG**	2CLA680230N3001	5
Black Glass	**AMD11822-BG**	2CLA680230N3101	5

Millenium - Grid system for combination (AMD)

Half/double rocker & other functions frames

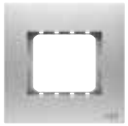
Product	Article-No.	Order-No.	Pack/Qty
	**Switch blind control** Rated voltage: 250Vac Rated power: 16AX Output: 2 normally open contact Multi-way input terminal (up/down)		
Stainless Steel	**AMD11844-ST**	2CLA624410N1101	10
Silk Black	**AMD11844-SB**	2CLA624410N1501	10
Antique Gold	**AMD11844-AG**	2CLA624410N1601	10
Matt Gold	**AMD11844-MG**	2CLA624410N1701	10
White Glass	**AMD11844-WG**	2CLA624410N3001	5
Black Glass	**AMD11844-BG**	2CLA624410N3101	5
	**Push button 2-gang, DND/MUR with bell symbol 10A** Rated voltage: 250Vac Rated power: 10A Do Not Disturb Make Up my Room LED signalling		
Stainless Steel	**AMD40344-ST**	2CLA621580N1101	5
Silk Black	**AMD40344-SB**	2CLA621580N1501	5
Antique Gold	**AMD40344-AG**	2CLA621580N1601	5
Matt Gold	**AMD40344-MG**	2CLA621580N1701	5
White Glass	**AMD40344-WG**	2CLA621580N3001	5
Black Glass	**AMD40344-BG**	2CLA621580N3101	5
	**Switch 2-gang, DND/MUR 10AX** Rated voltage: 250Vac Rated power: 10AX Do Not Disturb Make Up my Room LED signalling		
Stainless Steel	**AMD40444-ST**	2CLA621500N1101	5
Silk Black	**AMD40444-SB**	2CLA621500N1501	5
Antique Gold	**AMD40444-AG**	2CLA621500N1601	5
Matt Gold	**AMD40444-MG**	2CLA621500N1701	5
White Glass	**AMD40444-WG**	2CLA621500N3001	5
Black Glass	**AMD40444-BG**	2CLA621500N3101	5
	**Fan isolator 3 poles double 10A** Rated voltage: 250Vac Rated power: 10A 3 poles		
Stainless Steel	**AMD13444-ST**	2CLA620500N1101	10
Silk Black	**AMD13444-SB**	2CLA620500N1501	10
Antique Gold	**AMD13444-AG**	2CLA620500N1601	10
Matt Gold	**AMD13444-MG**	2CLA620500N1701	10
White Glass	**AMD13444-WG**	2CLA620500N3001	5
Black Glass	**AMD13444-BG**	2CLA620500N3101	5

Product	Article-No.	Order-No.	Pack/Qty
	**Half/double rocker & other functions frame 1-gang** Includes metal mounting frame Dimensions 86x86 mm.		
Stainless Steel	**AMD5144-ST**	2CLA627100N1101	10
Silk Black	**AMD5144-SB**	2CLA627100N1501	10
Antique Gold	**AMD5144-AG**	2CLA627100N1601	10
Matt Gold	**AMD5144-MG**	2CLA627100N1701	10
White Glass	**AMD5144-WG**	2CLA627100N3001	10
Black Glass	**AMD5144-BG**	2CLA627100N3101	10
	**Premium/half/double rocker switch frame 2-gang** Includes metal mounting frame Dimensions 86x147 mm.		
Stainless Steel	**AMD5244-ST**	2CLA647200N1101	10
Silk Black	**AMD5244-SB**	2CLA647200N1501	10
Antique Gold	**AMD5244-AG**	2CLA647200N1601	10
Matt Gold	**AMD5244-MG**	2CLA647200N1701	10
White Glass	**AMD5244-WG**	2CLA647200N3001	5
Black Glass	**AMD5244-BG**	2CLA647200N3101	5
	**Premium/half/double rocker switch frame 3-gang** Includes metal mounting frame Dimensions 86x228 mm.		
Stainless Steel	**AMD5344-ST**	2CLA667310N1101	5
Silk Black	**AMD5344-SB**	2CLA667310N1501	5
Antique Gold	**AMD5344-AG**	2CLA667310N1601	5
Matt Gold	**AMD5344-MG**	2CLA667310N1701	5
White Glass	**AMD5344-WG**	2CLA667310N3001	2
Black Glass	**AMD5344-BG**	2CLA667310N3101	2
	**Premium/half/double rocker switch frame 4-gang** Includes metal mounting frame Dimensions 86x293 mm.		
Stainless Steel	**AMD5444-ST**	2CLA687410N1101	5
Silk Black	**AMD5444-SB**	2CLA687410N1501	5
Antique Gold	**AMD5444-AG**	2CLA687410N1601	5
Matt Gold	**AMD5444-MG**	2CLA687410N1701	5
White Glass	**AMD5444-WG**	2CLA687410N3001	2
Black Glass	**AMD5444-BG**	2CLA687410N3101	2

Millenium - Grid system for combination (AMD)

Triple rocker switches

Product	Article-No.	Order-No.	Pack/Qty
	**Switch 3-gang, 2-way, triple rocker 10AX** Rated voltage: 250Vac Rated power: 10AX Total		
Stainless Steel	**AMD10753-ST**	2CLA630200N1101	10
Silk Black	**AMD10753-SB**	2CLA630200N1501	10
Antique Gold	**AMD10753-AG**	2CLA630200N1601	10
Matt Gold	**AMD10753-MG**	2CLA630200N1701	10
White Glass	**AMD10753-WG**	2CLA630200N3001	5
Black Glass	**AMD10753-BG**	2CLA630200N3101	5
	**Switch 3-gang, 2-way, triple rocker 16AX** Rated voltage: 250Vac Rated power: 16AX Total		
Stainless Steel	**AMD12153-ST**	2CLA630210N1101	10
Silk Black	**AMD12153-SB**	2CLA630210N1501	10
Antique Gold	**AMD12153-AG**	2CLA630210N1601	10
Matt Gold	**AMD12153-MG**	2CLA630210N1701	10
White Glass	**AMD12153-WG**	2CLA630210N3001	5
Black Glass	**AMD12153-BG**	2CLA630210N3101	5
	**Push button 3-gang, 1-way, triple rocker 10AX** Rated voltage: 250Vac Rated power: 10AX Total		
Stainless Steel	**AMD43053-ST**	2CLA630400N1101	10
Silk Black	**AMD43053-SB**	2CLA630400N1501	10
Antique Gold	**AMD43053-AG**	2CLA630400N1601	10
Matt Gold	**AMD43053-MG**	2CLA630400N1701	10
White Glass	**AMD43053-WG**	2CLA630400N3001	5
Black Glass	**AMD43053-BG**	2CLA630400N3101	5

Product	Article-No.	Order-No.	Pack/Qty
	**Triple rocker switch/KNX sensors frame 1-gang** Includes metal mounting frame Dimensions 86x86 mm.		
Stainless Steel	**AMD5153-ST**	2CLA637100N1101	10
Silk Black	**AMD5153-SB**	2CLA637100N1501	10
Antique Gold	**AMD5153-AG**	2CLA637100N1601	10
Matt Gold	**AMD5153-MG**	2CLA637100N1701	10
White Glass	**AMD5153-WG**	2CLA637100N3001	10
Black Glass	**AMD5153-BG**	2CLA637100N3101	10
	**Triple rocker switch/KNX sensors frame 2-gang** Includes metal mounting frame Dimensions 86x147 mm.		
Stainless Steel	**AMD5253-ST**	2CLA667200N1101	10
Silk Black	**AMD5253-SB**	2CLA667200N1501	10
Antique Gold	**AMD5253-AG**	2CLA667200N1601	10
Matt Gold	**AMD5253-MG**	2CLA667200N1701	10
White Glass	**AMD5253-WG**	2CLA667200N3001	5
Black Glass	**AMD5253-BG**	2CLA667200N3101	5

Millenium - Grid system for combination (AMD)

Socket outlet

Product	Article-No.	Order-No.	Pack/Qty
	**Universal socket outlet** Rated voltage/current: 230Vac/13A, 127Vac/15A Child protection Combination with frames AMD5144-XX & AMD5244-XX		
Anthracite	**AMD39144-AN**	2CLA623900N1801	1
White	**AMD39144-WP**	2CLA623900N2001	1
	**Schuko earthed socket outlet** Rated voltage/current: 250Vac / 16A Child protection Type F: 2P+E Combination with frames AMD5144-XX & AMD5244-XX		
Anthracite	**AMD88144-AN**	2CLA628800N1801	1
White Plastic	**AMD88144-WP**	2CLA628800N2001	1
	**Euro-American earthed socket outlet** Rated voltage/current: 250Vac / 16A, 127Vac / 15A Child protection Type B+C: 2P / NEMA 5-15R. Combination with frames AMD5144-XX & AMD5244-XX		
Anthracite	**AMD38144-AN**	2CLA623800N1801	1
White Plastic	**AMD38144-WP**	2CLA623800N2001	1

USB charger

Product	Article-No.	Order-No.	Pack/Qty
	**USB charger 2A, 1-gang - 1M** Input voltage: 110-230V - 50/60 Hz USB charger type-A: 10W (5V – 2A) Operating temperature: 0 °C to 45 °C Energy efficiency: > 79% Overload protection and auto-restart Combination with frames: AMD5144-XX & AMD5244-XX		
Anthracite	**AMD85222-AN**	2CLA618520N1801	1
White	**AMD85222-WP**	2CLA618520N2001	1
	**USB charger 1,5A, 2-gang - 2M** Input voltage: 110-240V - 50/60 Hz USB charger type-A: 7.5W (5V – 0.75A per port) Operating temperature: 0 °C to 35 °C Energy efficiency: > 71% Overload protection Combination with frames: AMD5144-XX & AMD5244-XX		
Anthracite	**AMD85144-AN**	2CLA628500N1801	1
White	**AMD85144-WP**	2CLA628500N2001	2

Millenium - Grid system for combination (AMD)

Voice data & information connectors

Product	Article-No.	Order-No.	Pack/Qty
	**RJ45 Keystone, 3M & AMP system adaptor** Combined with cover plates: AMD33144-XX, AMD33244-XX, AMD33544-XX & AMD33644-XX Combination with frames: AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444		
	AMD6016	2CLA601600A1001	10
	**RJ45 Systimax system adaptor** Combined with cover plates: AMD33144-XX, AMD33244-XX, AMD33544-XX & AMD33644-XX Combination with frames: AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444		
	AMD6016.1	2CLA601610A1001	10
	**RJ45 Panduit system adaptor** Combined with cover plates: AMD33144-XX, AMD33244-XX, AMD33544-XX & AMD33644-XX Combination with frames: AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444		
	AMD6016.2	2CLA601620A1001	10
	**RJ45 R&M system adaptor** Combined with cover plates: AMD33144-XX, AMD33244-XX, AMD33544-XX & AMD33644-XX Combination with frames: AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444		
	AMD6016.3	2CLA601630A1001	10
	**Flat cover plate with shutter for RJ45 connector 1-gang** Cover plate for one data connector housing (refs.: AMD6016, AMD6016.1, AMD6016.2 and AMD6016.3) With labeling area for stickers With shutter Combination with frames: AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444		
Anthracite	**AMD33144-AN**	2CLA621630N1801	10
White	**AMD33144-WP**	2CLA621630N2001	10
	**Flat cover plate with shutter for RJ45 connector 2-gang** Cover plate for two data connector housing (refs.: AMD6016, AMD6016.1, AMD6016.2 and AMD6016.3) With labeling area for stickers With shutter Combination with frames: AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444		
Anthracite	**AMD33244-AN**	2CLA621640N1801	10
White	**AMD33244-WP**	2CLA621640N2001	10

Product	Article-No.	Order-No.	Pack/Qty
	**Inclined cover plate with shutter for RJ45 connector 1-gang** Cover plate for one data connector housing (refs.: AMD6016, AMD6016.1, AMD6016.2 and AMD6016.3) With labeling area for stickers With shutter Combination with frames: AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444		
Anthracite	**AMD33544-AN**	2CLA621670N1801	5
White	**AMD33544-WP**	2CLA621670N2001	5
	**Inclined cover plate with shutter for RJ45 connector 2-gang** Cover plate for two data connector housing (refs.: AMD6016, AMD6016.1, AMD6016.2 and AMD6016.3) With labeling area for stickers With shutter Combination with frames: AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444		
Anthracite	**AMD33644-AN**	2CLA621680N1801	5
White	**AMD33644-WP**	2CLA621680N2001	5

Millenium - Grid system for combination (AMD)

Voice data & information connectors

Product	Article-No.	Order-No.	Pack/Qty
	**Data outlet RJ45 Cat 6 UTP 1-gang - 1M** 8 pole UTP Combination with frames: AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
Anthracite	**AMD33322-AN**	2CLA611860N1801	10
White	**AMD33322-WP**	2CLA611860N2001	10
	**Data outlet RJ45 Cat 6A UTP 1-gang - 1M** 8 pole UTP Combination with frames: AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
Anthracite	**AMD33422-AN**	2CLA611870N1801	10
White	**AMD33422-WP**	2CLA611870N2001	10
	**TV/SAT terminal outlet F type - 1M** F type isolated dead-end-feeder. Combination with frames: AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
Anthracite	**AMD30322-AN**	2CLA615000N1801	10
White	**AMD30322-WP**	2CLA615000N2001	10
	**TV terminal outlet M type - 1M** Single TV outlet - Dead-end M type - 9,52 mm. male For 75Ω impedance coaxial cable Avoid small bending radius Frequency range: 5 - 2.400 Mhz Connection loss: 1 dB Isolation: >16 dB Return loss: >7,6 dB DC path (Vdc / mA / Tono): 34 max. / 500 max. / 22kHz - DiSEqC Combination with frames: AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
Anthracite	**AMD30122-AN**	2CLA615070N1801	10
White	**AMD30122-WP**	2CLA615070N2001	10
	**TV/SAT terminal outlet F type - 2M** F type isolated dead-end-feeder. Combination with frames: AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
Anthracite	**AMD30344-AN**	2CLA625000N1801	5
White	**AMD30344-WP**	2CLA625000N2001	5
	**2RCA connection unit** Front: 2x RCA connectors (Red / White) Rear: screw terminals (4 wires) Combination with frames: AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
Anthracite	**AMD55222-AN**	2CLA615520N1801	1
White	**AMD55222-WP**	2CLA615520N2001	1

Product	Article-No.	Order-No.	Pack/Qty
	**3RCA connection unit** Front: 3x RCA connectors (Red / White / Yellow) Rear: screw terminals (6 wires) Combination with frames: AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
Anthracite	**AMD55322-AN**	2CLA615530N1801	1
White	**AMD55322-WP**	2CLA615530N2001	1
	**Mini-Jack connection unit** Front: 1x Mini-Jack connector (3,5mm stereo audio jack) Rear: screw terminals (3/4 wires) Combination with frames: AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
Anthracite	**AMD55422-AN**	2CLA615540N1801	1
White	**AMD55422-WP**	2CLA615540N2001	1
	**VGA connection unit** Front: 1x VGA connector (DE-15 connector) Rear: screw terminals (15 wires) Combination with frames: AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
Anthracite	**AMD55522-AN**	2CLA615550N1801	1
White	**AMD55522-WP**	2CLA615550N2001	1
	**HDMI connector female** Front: 1x HDMI connector (Type A connector) Rear: 1x HDMI connector (Type A connector) fitted at 90º angle Combination with frames: AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
Anthracite	**AMD55722-AN**	2CLA615570N1801	5
White	**AMD55722-WP**	2CLA615570N2001	1
	**USB connector female** USB adaptor. No charger Front: 1x USB 2.0 connector (Type A connector) Rear: 1x USB 2.0 connector (Type A connector) fitted at 90º angle Combination with frames: AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
Anthracite	**AMD55922-AN**	2CLA615590N1801	1
White	**AMD55922-WP**	2CLA615590N2001	1

Millenium - Grid system for combination (AMD)

Dimmers

Product	Article-No.	Order-No.	Pack/Qty
	**LED rotatory/push dimmer - 2M** Rated voltage: 230 Vac ± 10%. Frequency: 50 Hz (Nominal power: 250 W/VA) / 60 Hz (Nominal power: 200 W/VA). Power (min./max load): - LEDi: 2 / 100 W/VA (max. 10 lamps). - Dimmable energy saving lamps: 2 / 100 W/VA (max. 10 lamps). - LV LEDi with transformer (only type L or LC): 4 / 100 W/VA (max. 10 lamps). - Incandescent lamps: 10 / 250 W/VA. - Halogen lamps: 10 / 250 W/VA. - LV halogen with transformer (only type L or LC): 10 / 250 W/VA (max. 10 lamps). 2 wire connection. Optional: auxiliary on/off with 2-way switch. Indicator LED lamp included. Back-up fuse: Electronic. Overload protection: Electronic. Ambient temperature: 0° C to +35° C. Combination with frames AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
Anthracite	**AMD60344-AN**	2CLA626030N1801	1
White	**AMD60344-WP**	2CLA626030N2001	1
	**Universal rotatory/push dimmer - 2M** Rated voltage: 230 Vac ; 50 Hz. Min. power: 60 W / VA. Max. power: - Incandescent: 500 W. - Halogen lamp with electronic transformer: 500 VA. - Halogen lamp with ferromagnetic transformer: 400 VA. 2 wire connection. Optional: auxiliary control with push-buttons. Indicator LED lamp included. Operating temperature: 0° C to +30° C. Combination with frames AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
Anthracite	**AMD60244-AN**	2CLA626020N1801	1
White	**AMD60244-WP**	2CLA626020N2001	1
	**1-10V rotary dimmer - 2M** Rated voltage: 127 - 230 Vac ; 50-60 Hz Dimmable electronic ballast/driver with 1-10V control input. Max. power: - 230 Vac: 700 VA. - 127 Vac: 350 VA. Max. 6 ballasts per device. Indicator LED lamp included. Combination with frames AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
Anthracite	**AMD60944-AN**	2CLA626090N1801	1
White	**AMD60944-WP**	2CLA626090N2001	1

Motion sensor

Product	Article-No.	Order-No.	Pack/Qty
	**LED/Universal Rotary dimmer** Rated voltage: 250Vac / 50-60 Hz Power (min./max load): - LEDi (trailing-edge lamps): 4 / 125 W/VA. - LEDi (leading-edge lamps): 4 / 30 W/VA.* - LV LEDi with transformer type C: 4 / 125 W/VA. - LV LEDi with transformer type LC: 4 / 30 W/VA.* - LV halogen with transformer type C: 4 / 125 W/VA. - LV halogen with transformer type LC: 4 / 125 W/VA. - Incandescent lamps: 4 / 125 W/VA. - Halogen lamps: 4 / 125 W/VA. *Max. 10 lamps.		
Anthracite	**AMD60322-AN**	2CLA616030N1801	1
White Plastic	**AMD60322-WP**	2CLA616030N2001	1
	**110° motion sensor - 2M** Rated voltage: 127 - 230 Vac ± 10% ; 50 - 60 Hz Outputs: 1 Normally Open (NO). Potential free Max. power: - Incandescent: 1.800W @230Vac / 1.000W @127Vac - Halogen with electronic o ferromagnetic transformer: 750VA @230Vac / 400VA @127Vac - Fluorescent lamps or motors: 400VA @230Vac / 200VA @127Vac For automatic switching of devices dependent on motion and brightness. With integrated selector switch for ON-AUTOMATIC-OFF in the front side. Switch-off delay: 10 sec to 10 min or short-time pulse 1 sec adjustable (from the front side). Detection range: 5 m radious. Adjustable light set point level for activation (from the front side). Detection angle: 110 ° Mounting height: 1,2 m Auxiliary control with push-buttons Temperature range (Device): -10 °C to 40 °C Combination with frames AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
Anthracite	**AMD41144-AN**	2CLA624100N1801	1
White	**AMD41144-WP**	2CLA624100N2001	1

Various

Product	Article-No.	Order-No.	Pack/Qty
	**Blank insert 1M** Blank insert 1 module Combination with frames AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
Anthracite	**AMD50422-AN**	2CLA610000N1801	10
White	**AMD50422-WP**	2CLA610000N2001	10

Millenium - Grid system for combination (AMD)

Sound system

Product	Article-No.	Order-No.	Pack/Qty
	**Buzzer - 2M** Rated voltage: 127-230 Vac ; 50-60 Hz. Rated power: 8 VA. Adjustable tone. Acoustic power at 1 meter with cover plate: 75 dB. Combination with frames AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
Anthracite	**AMD19144-AN**	2CLA621900N1801	5
White	**AMD19144-WP**	2CLA621900N2001	5
	**Electronic door bell 230Vac - 2M** Rated voltage: 230 Vac ; 50-60 Hz. 4 melodies available. Acoustic power at 1 meter with cover plate: 72 dB. Combination with frames AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
Anthracite	**AMD24144-AN**	2CLA622400N1801	5
White	**AMD24144-WP**	2CLA622400N2001	5
	**Modular sound system, BT receiver with amplifier** Rated voltage: 110-230 Vac ± 15%; 50-60 Hz Max. consumption: 7W Stand-by consuption: 0,2W Amplifier power: 2+2 W; <1% distorsion (16 Ω) Speaker impedance: 16 Ω (2+2 W audio) 3 audio inputs: Bluetooth, AUX (front), TV (rear)		
Anthracite	**AMD68444-AN**	2CLA626840N1801	1
White Plastic	**AMD68444-WP**	2CLA626840N2001	1
	**FM stereo receiver with RDS** Rated voltage: 230 Vac ±15% / 50-60 Hz Max. consumption:100 mA Stand-by consumption with the display illumination at minimum:0.2 W Stand-by consumption ref. AMD68044-AN + AMD68344-AN9368: 0.6 W Maximum output power: 2+2 W; <1% distorsion (16 W) Speaker Impedance: 16 W (2+2 W audio) Combination with frames AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
Anthracite	**AMD68044-AN**	2CLA626800N1801	1
White	**AMD68044-WP**	2CLA626800N2001	1
	**Input/output , USB & Bluetooth® module** Power supply through AUX.: 9 V Bluetooth® v2.1 2.4GHz IEEE 802.15.1 Maximum reach from the module to user's Bluetooth® device: 10 m. Maximum consumption: 175 ~ 200 mA Consumption stand-by: 0.4 W Headphones impedance: 16 ~ 600 Ω (25 + 25 mW audio phones) Combination with frames AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
Anthracite	**AMD68344-AN**	2CLA626830N1801	1
White	**AMD68344-WP**	2CLA626830N2001	1

Product	Article-No.	Order-No.	Pack/Qty
	**Remote control unit for 9368.1** Power supply: 230 V~ / 127 V~ ; ±15% ; 50-60 Hz Maximum power consumption ref. 9368.2: 15 mA Stand-by consumption with the display illumination at minimum :0.5 W Stand-by consumption ref. AMD68244-AN + AMD68344-AN: 0.9 W Combination with frames AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
Anthracite	**AMD68244-AN**	2CLA626820N1801	1
White	**AMD68244-WP**	2CLA626820N2001	1
	**Radio/amplifier module for ceiling with Bluetooth® 9368.1** Bluetooth®: 230 V~ / 127 V~; ±15%; 50-60 Hz Maximum reach from the module to user's Bluetooth® device: 10 m. Maximum power consumption: 200 mA Consumption stand-by: 0.3 W Antenna impedance: 75 Ω Maximum power headphone output: 6+6 W; <1% distortion (4 Ω) Minimum impedance of headphones: 4 Ω (6+6 W audio)		
	9368.1	2CLA936810A1002	10
	**Loudspeaker 5"** Installation in flush box ref. 9399 drilling 17mm or embedded ring ref. 9399.1 drilling 160mm. Max. Power: 6W Impedance: 16 Ω Response frecuency: 70Hz to 10kHz		
	9329.1	2CLA932910A1001	1
	**Flush box for loudspeaker 5"**		
	9399	2CLA939900A1001	12
	**Embedded ring for loudspeaker 5"**		
	9399.1	2CLA939910A1001	12
	**Styling grid for loudspeaker 5"**		
	9399.2	2CLA939920A1001	12

Millenium - Grid system for combination (AMD)

ABB-free@home®

Product	Article-No.	Order-No.	Pack/Qty
	**For switching 230 V~ consumers. With integrated switch actuator. Switching function is available also without prior programming (pre-configured). Only to be used in combination with ABB-free@home® 1/2-Fold sensor cover plate.** 44 mm. × 44 mm. ×45 mm. Outputs: 1× normally open contact, potential free. Suitable for: ohmic. Rated current: 10 A. Rated power: 2300 W. Suitable for: capacitive. Rated current: 10 AX. Protection class of device: IP 20. Mounting depth: 32 mm.		
	SSA-F-1.1.PB.1	2CKA006220A0232	1
Wireless	**SSA-F-1.1.PB.1-WL**	2CKA006200A0108	1
	**For dimming 230 V~ loads. With integrated universal dimming actuator for controlling different lamps. The dimming function is available also without prior programming (pre-configured). Only to be used in combination with ABB-free@home® 1/2-Fold sensor cover plate.** 44 mm. × 44 mm. × 45 mm. Outputs: 1× dimming channel. Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformers. Rated power: 10 – 180 W / VA. Suitable for: LEDi and energy-saving bulbs; typical. Rated power: 2 – 80 W / VA. Protection class of device: IP 20. Mounting depth: 32 mm.		
	SDA-F-1.1.PB.1	2CKA006220A0235	1
Wireless	**SDA-F-1.1.PB.1-WL**	2CKA006200A0111	1
	**For controlling blind and awning motors. With integrated blind actuator. Blind function is available also without prior programming (pre-configured). Only to be used in combination with ABB-free@home® 1/2-Fold sensor cover plate.** 44 mm. × 44 mm. × 45 mm. Outputs: 1× Change-over contacts/ normally open contact, potential bound. Rated power: 920 VA. Rated current: 4 A. Suitable for: Operating mode blind. Protection class of device: IP 20. Mounting depth: 32 mm.		
	SBA-F-1.1.PB.1	2CKA006220A0237	1
Wireless	**SBA-F-1.1.PB.1-WL**	2CKA006200A0113	1
	**For sending switching, dimming and blind commands to an ABB-free@home® actuator. Only to be used in combination with ABB-free@home® 1/2-Fold sensor cover plate.** 44 mm. × 44 mm. × 45 mm. Control: Push buttons up/down. LEDS: Used as orientation light or as switching status. Protection class of device: IP 20. Mounting depth: 9 mm.		
	SU-F-1.0.PB.1	2CKA006220A0222	1
Wireless	**SU-F-1.0.PB.1-WL**	2CKA006200A0106	1

Product	Article-No.	Order-No.	Pack/Qty
	**1/2-Fold sensor cover plate** Cover plate ABB-free@home® 1/2-Fold sensor for the SSA-F-1.1.PB.1, SDAF-1.1.PB.1, SBA-F-1.1.PB.1 and SU-F-1.0.PB.1 sensors. Combination with frames AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
Anthracite	**SR-2-AMAN**	2CLA622620N1801	5
White	**SR-2-AMWP**	2CLA622620N2001	5
	**For switching 230 V~ consumers. With one integrated switch actuator. Switching function is available also without prior programming (pre-configured). Only to be used in combination with ABB-free@home® 2/4-Fold sensor cover plate.** 44 mm. × 44 mm. ×45 mm. Outputs: 1× normally open contact, potential free. Suitable for: ohmic. Rated current: 10 A. Rated power: 2300 W. Suitable for: capacitive. Rated current: 10 AX. Protection class of device: IP 20. Mounting depth: 32 mm.		
	SSA-F-2.1.PB.1	2CKA006220A0233	1
Wireless	**SSA-F-2.1.PB.1-WL**	2CKA006200A0109	1
	**For switching 230 V~ consumers. With two integrated switch actuators. Switching function is available also without prior programming (pre-configured). Only to be used in combination with ABB-free@home® 2/4-Fold sensor cover plate.** 44 mm. × 44 mm. × 45 mm. Outputs: 2× normally open contact, potential free. Suitable for: ohmic. Rated current: 10 A. Rated power: 2300 W. Suitable for: capacitive. Rated current: 10 AX. Protection class of device: IP 20. Mounting depth: 32 mm.		
	SSA-F-2.2.PB.1	2CKA006220A0234	1
Wireless	**SSA-F-2.2.PB.1-WL**	2CKA006200A0110	1

Millenium - Grid system for combination (AMD)

ABB-free@home®

Product	Article-No.	Order-No.	Pack/Qty
	**For dimming 230 V~ loads.** **With integrated universal dimming actuator for controlling different lamps.** **The dimming function is available also without prior programming (pre-configured).** **Only to be used in combination with ABB-free@home® 2/4-Fold sensor cover plate.** 44 mm. × 44 mm. × 45 mm. Outputs: 1× dimming channel. Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformers. Rated power: 10 – 180 W / VA. Suitable for: LEDi and energy-saving bulbs; typical. Rated power: 2 – 80 W / VA Protection class of device: IP 20. Mounting depth: 32 mm.		
	SDA-F-2.1.PB.1	2CKA006220A0236	1
Wireless	**SDA-F-2.1.PB.1-WL**	2CKA006200A0112	1
	**For controlling blind and awning motors.** **With integrated blind actuator.** **Blind function is available also without prior programming (pre-configured).** **Only to be used in combination with ABB-free@home® 2/4-Fold sensor cover plate.** 44 mm. × 44 mm. × 45 mm. Outputs: 1× Change-over contacts/ normally open contact, potentialbound. Rated power: 920 VA. Rated current: 4 A. Suitable for: Operating mode blind. Protection class of device: IP 20. Mounting depth: 32 mm.		
	SBA-F-2.1.PB.1	2CKA006220A0238	1
Wireless	**SBA-F-2.1.PB.1-WL**	2CKA006200A0114	1
	**For sending switching, dimming and blind commands to an ABB-free@home® actuator.** **Only to be used in combination with ABB-free@home® 2/4-Fold sensor cover plate.** 44 mm. × 44 mm. × 45 mm. Control: Push buttons up/down. LEDS: Used as orientation light or as switching status. Protection class of device: IP 20. Mounting depth: 9 mm.		
	SU-F-2.0.PB.1	2CKA006220A0223	1
Wireless	**SU-F-2.0.PB.1-WL**	2CKA006200A0107	1
	**2/4-Fold sensor cover plate** Cover plate ABB-free@home® 2/4-Fold sensor for the SSA-F-2.1.PB.1, SSA-F-2.2.PB.1, SDA-F-2.1.PB.1, SBA-F-2.1PB.1 and SU-F-2.0.PB.1 sensors. Combination with frames AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
Anthracite	**SR-4-AMAN**	2CLA622640N1801	5
White	**SR-4-AMWP**	2CLA622640N2001	5

Product	Article-No.	Order-No.	Pack/Qty
	**For controlling the room temperature with thermostat fuctions. Control of conventional actuators or analog actuator (constant regulation) with the HA-M-0.6.1 and HA-M-0.12.1 actuators.** **With NOMINAL temperature indication. Only to be used in combination with ABB-free@home® room temperature controller cover plate.** 44 mm. × 44 mm. × 45 mm. Visualization: LCD status mode indicator. Protection class of device: IP 20. Mounting depth: 14 mm.		
	RTC-F-1.PB	2CKA006220A0276	1
Wireless	**RTC-F-1.PB-WL**	2CKA006200A0115	1
	**Room temperature controller cover plate.** Cover plate ABB-free@home® for RTC-F-1.PB		
Anthracite	**CP-RTC-AMAN**	2CLA624060N1801	5
White	**CP-RTC-AMWP**	2CLA624060N2001	5
	**Watchdog sensor 180° with lens for the detection of animals. For the automatic switching of the ABB-free@home® actuators.** **Only to be used in combination with ABB-free@home® Watchdog 180° flush mounted cover plate.** 44 mm. × 44 mm. × 45 mm. Detection range: 6m front, 3m lateral. Angle: 180°. Brightness range: 1-500 Lux. Protection class of device: IP 20. Mounting depth: 9 mm.		
	MSA-F-1.1.PB.1	2CKA006220A0231	1
Wireless	**MSA-F-1.1.PB.1 -WL**	2CKA006200A0117	1
	**Watchdog sensor 180 cover plate.** Cover plate ABB-free@home® for Watchdog sensor MSA-F-1.1.PB.1. Combination with frames AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
Anthracite	**CP-MD-AMAN**	2CLA624160N1801	5
White	**CP-MD-AMWP**	2CLA624160N2001	5



Light symbol button ABB-free@home®
Blind symbol button ABB-free@home®
Scene symbol button ABB-free@home®
Dimmer symbol button ABB-free@home®

Light Anthracite	**SBL-AMAN**	2CLA602610N1801	20
Light White	**SBL-AMWP**	2CLA602610N2001	20
Blind Anthracite	**SBB-AMAN**	2CLA602620N1801	20
Blind White	**SBB-AMWP**	2CLA602620N2001	20
Scene Anthracite	**SBS-AMAN**	2CLA602630N1801	20
Scene White	**SBS-AMWP**	2CLA602630N2001	20
Dimmer Anthracite	**SBD-AMAN**	2CLA602640N1801	20
Dimmer White	**SBD-AMWP**	2CLA602640N2001	20

Millenium - Grid system for combination (AMD)

Half/double rocker & other functions frames

Product	Article-No.	Order-No.	Pack/Qty
	**Half/double rocker & other functions frame 1-gang** Includes metal mounting frame Dimensions 86 x 86 mm.		
Stainless Steel	**AMD5144-ST**	2CLA627100N1101	10
Silk Black	**AMD5144-SB**	2CLA627100N1501	10
Antique Gold	**AMD5144-AG**	2CLA627100N1601	10
Matt Gold	**AMD5144-MG**	2CLA627100N1701	10
White Glass	**AMD5144-WG**	2CLA627100N3001	10
Black Glass	**AMD5144-BG**	2CLA627100N3101	10
	**Premium/half/double rocker switch frame 2-gang** Includes metal mounting frame Dimensions 86 x 147 mm.		
Stainless Steel	**AMD5244-ST**	2CLA647200N1101	10
Silk Black	**AMD5244-SB**	2CLA647200N1501	10
Antique Gold	**AMD5244-AG**	2CLA647200N1601	10
Matt Gold	**AMD5244-MG**	2CLA647200N1701	10
White Glass	**AMD5244-WG**	2CLA647200N3001	5
Black Glass	**AMD5244-BG**	2CLA647200N3101	5
	**Premium/half/double rocker switch frame 3-gang** Includes metal mounting frame Dimensions 86 x 228 mm.		
Stainless Steel	**AMD5344-ST**	2CLA667310N1101	5
Silk Black	**AMD5344-SB**	2CLA667310N1501	5
Antique Gold	**AMD5344-AG**	2CLA667310N1601	5
Matt Gold	**AMD5344-MG**	2CLA667310N1701	5
White Glass	**AMD5344-WG**	2CLA667310N3001	2
Black Glass	**AMD5344-BG**	2CLA667310N3101	2
	**Premium/half/double rocker switch frame 4-gang** Includes metal mounting frame Dimensions 86 x 293 mm.		
Stainless Steel	**AMD5444-ST**	2CLA687410N1101	5
Silk Black	**AMD5444-SB**	2CLA687410N1501	5
Antique Gold	**AMD5444-AG**	2CLA687410N1601	5
Matt Gold	**AMD5444-MG**	2CLA687410N1701	5
White Glass	**AMD5444-WG**	2CLA687410N3001	2
Black Glass	**AMD5444-BG**	2CLA687410N3101	2

Millenium - Grid system for combination (AMD)

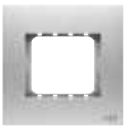
KNX system

Product	Article-No.	Order-No.	Pack/Qty
	**2-Fold sensor** Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). Control element: Switch contacts. Display elements: LED to indicate the function. Protection class (Device): IP 20. Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 53 mm. x 44 mm.		
AMD72053-AN (6125/20-981-500)		2CKA006115A0443	1
AMD72053-WP (6125/20-214-500)		2CKA006115A0500	1
	**4-Fold sensor** Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). Control element: Switch contacts. Display elements: LED to indicate the function. Protection class (Device): IP 20. Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 53 mm. x 44 mm.		
AMD74053-AN (6126/20-981-500)		2CKA006116A0218	1
AMD74053-WP (6126/20-214-500)		2CKA006115A0501	1
	**6-Fold sensor** Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). Control element: Switch contacts. Display elements: LED to indicate the function. Protection class (Device): IP 20. Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 53 mm. x 44 mm.		
AMD76053-AN (6129/20-981-500)		2CKA006118A0104	1
AMD76053-WP (6129/20-214-500)		2CKA006115A0502	1
	**6-Fold sensor with IR** Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). Control element: Switch contacts. Display elements: LED to indicate the function. Protection class (Device): IP 20. Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 53 mm. x 44 mm.		
AMD76153-AN (6129/21-981-500)		2CKA006118A0107	1
AMD76153-WP (6129/21-214-500)		2CKA006134A0355	1
	**Watchdog 180° flush mounted** Movement sensor with up to four channels. Detection range: frontal: 6 m., lateral: 6 m. Detection angle: 180 °. Brightness limit value: 5 Lux - 150 Lux. Mounting height: 1.1 m. Protection class (Device): IP 20. Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 53 mm x 44 mm Position for installation: vertical.		
AMD70153-AN (6122/20-981-500)		2CKA006132A0306	1
AMD70153-WP (6122/20-214-500)		2CKA006132A0424	1

Product	Article-No.	Order-No.	Pack/Qty
	**Room thermostat heating/cooling fan coil** Control element with room thermostat function for triggering the heating, ventilation and fan-coil actuators. The controller is a thermostat for fan coil units in 2 - and 4-pipe systems and conventional heating or cooling systems. The fan stage can be switched manually or in automatic mode. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). Switch contacts for operating mode selection and dial for setpoint or fan speed adjustment. Display elements: LCD showing operation modes. Protection class (Device): IP 20. Temperature range (Device): -5 °C to 45 °C. Dimensions: (L x W x D): 53 mm. x 44 mm.		
AMD70053-AN (6124/08-981-500)		2CKA006134A0309	1
AMD70053-WP (6124/08-214-500)		2CKA006134A0354	1
	**Ceiling light symbol** **Blind symbol** **Scene symbol** **Temperature symbol** **Light symbol** **Fan coil symbol** Labelling insert for Millenium control covers 1 /2-gang, 2 / 4-gang, 3 / 6-gang and 3 / 6-gang with infrared		
AM50701-GR (6123/20-500)		2CKA006123A0001	10
AM50702-GR (6123/21-500)		2CKA006123A0002	10
AM50703-GR (6123/22-500)		2CKA006123A0003	10
AM50704-GR (6123/23-500)		2CKA006123A0004	10
AM50705-GR (6123/24-500)		2CKA006123A0005	10
AM50706-GR (6123/26-500)		2CKA006123A0006	10
AM50701-WH (6123/20-214-500)		2CKA006123A0007	10
AM50702-WH (6123/21-214-500)		2CKA006123A0008	10
AM50703-WH (6123/22-214-500)		2CKA006123A0009	10
AM50704-WH (6123/23-214-500)		2CKA006123A0010	10
AM50705-WH (6123/24-214-500)		2CKA006123A0011	10
AM50706-WH (6123/26-214-500)		2CKA006123A0012	10

Millenium - Grid system for combination (AMD)

Triple rocker & KNX sensor frames

Product	Article-No.	Order-No.	Pack/Qty
	**Triple rocker switch/KNX sensors frame 1-gang** Includes metal mounting frame Dimensions 86 x 86 mm.		
Stainless Steel	**AMD5153-ST**	2CLA637100N1101	10
Silk Black	**AMD5153-SB**	2CLA637100N1501	10
Antique Gold	**AMD5153-AG**	2CLA637100N1601	10
Matt Gold	**AMD5153-MG**	2CLA637100N1701	10
White Glass	**AMD5153-WG**	2CLA637100N3001	10
Black Glass	**AMD5153-BG**	2CLA637100N3101	10
	**Triple rocker switch/KNX sensors frame 2-gang** Includes metal mounting frame Dimensions 86 x 147 mm.		
Stainless Steel	**AMD5253-ST**	2CLA667200N1101	10
Silk Black	**AMD5253-SB**	2CLA667200N1501	10
Antique Gold	**AMD5253-AG**	2CLA667200N1601	10
Matt Gold	**AMD5253-MG**	2CLA667200N1701	10
White Glass	**AMD5253-WG**	2CLA667200N3001	5
Black Glass	**AMD5253-BG**	2CLA667200N3101	5

Special metal mounting plate for KNX sensors

	**Special mounting plate KNX sensors 1G**		
	AMD5053	2CLA627190N1001	6

Millenium - Grid system for combination (AMD)

Access control KNX

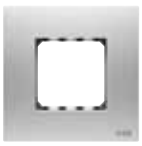
Product	Article-No.	Order-No.	Pack/Qty
	**Mifare transponder reader** 1) Access Control transponder reader able to be completely integrated into every KNX installation. 2) 1 binary input for connecting cardholder 3) 1 output 4A (24 V AC/DC) Required additional power supply (10…32 V DC/ 12…24 V AC) Combination with frames AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
	TR/U 1.1	2CSY235683R2001	1
	**Mifare transponder holder** Access Control transponder holder able to be completely integrated into every KNX installation. 1) 1 binary input (ON/OFF, dimmer, shutter) 2) 1 output 4A (24 V AC/DC) Required additional power supply (12…24 V AC/DC) Combination with frames AMD5144-XX, AMD5244-XX, AMD5344-XX & AMD5444-XX.		
	TH/U 1.1	2CSY265232R2021	1
	**Set of 10 transponder cards** The transponder card uses passive transponder technology operating in radio frequency (MIFARE technology), without the need for contact between the reader and the card itself. The transponder card is read by swiping it in front of the reader at a maximum distance of 20 mm (can be reduced according to installation environment).		
	TS/T 1	2CSY259412R2041	1
	**Software MiniMAC 4.1** Configuration and supervision software for ABB Access Control system. Main functionalities are: management of keys, room state monitoring. Guest check in/check out, front desk room load monitoring, management of guest and employee databases, front desk management of room climate, …		
	SW MiniMAC 4.1	2CSY258202R2051	1

Half/double rocker & other functions frames

Product	Article-No.	Order-No.	Pack/Qty
	**Half/double rocker & other functions frame 1-gang** Includes metal mounting frame Dimensions 86 x 86 mm.		
Stainless Steel	**AMD5144-ST**	2CLA627100N1101	10
Silk Black	**AMD5144-SB**	2CLA627100N1501	10
Antique Gold	**AMD5144-AG**	2CLA627100N1601	10
Matt Gold	**AMD5144-MG**	2CLA627100N1701	10
White Glass	**AMD5144-WG**	2CLA627100N3001	10
Black Glass	**AMD5144-BG**	2CLA627100N3101	10
	**Premium/half/double rocker switch frame 2-gang** Includes metal mounting frame Dimensions 86 x 147 mm.		
Stainless Steel	**AMD5244-ST**	2CLA647200N1101	10
Silk Black	**AMD5244-SB**	2CLA647200N1501	10
Antique Gold	**AMD5244-AG**	2CLA647200N1601	10
Matt Gold	**AMD5244-MG**	2CLA647200N1701	10
White Glass	**AMD5244-WG**	2CLA647200N3001	5
Black Glass	**AMD5244-BG**	2CLA647200N3101	5
	**Premium/half/double rocker switch frame 3-gang** Includes metal mounting frame Dimensions 86 x 228 mm.		
Stainless Steel	**AMD5344-ST**	2CLA667310N1101	5
Silk Black	**AMD5344-SB**	2CLA667310N1501	5
Antique Gold	**AMD5344-AG**	2CLA667310N1601	5
Matt Gold	**AMD5344-MG**	2CLA667310N1701	5
White Glass	**AMD5344-WG**	2CLA667310N3001	2
Black Glass	**AMD5344-BG**	2CLA667310N3101	2
	**Premium/half/double rocker switch frame 4-gang** Includes metal mounting frame Dimensions 86 x 293 mm.		
Stainless Steel	**AMD5444-ST**	2CLA687410N1101	5
Silk Black	**AMD5444-SB**	2CLA687410N1501	5
Antique Gold	**AMD5444-AG**	2CLA687410N1601	5
Matt Gold	**AMD5444-MG**	2CLA687410N1701	5
White Glass	**AMD5444-WG**	2CLA687410N3001	2
Black Glass	**AMD5444-BG**	2CLA687410N3101	2

Millenium

Grid system frames selection table

	1 gang frame	2 gang frame
Rocker switch	AMD5120-ST, SB, AG, MG	
		
Premium rocker switch	AMD5044-ST, SB, AG, MG, WG, BG	AMD5244-ST, SB, AG, MG, WG, BG
		
Half/Double rockers switch and other functions	AMD5144-ST, SB, AG, MG, WG, BG	AMD5244-ST, SB, AG, MG, WG, BG
		
Triple rocker switch & KNX sensors	AMD5133-ST, SB, AG, MG, WG, BG	AMD5253-ST, SB, AG, MG, WG, BG
		

3 gang frame	4 gang frame	Mounting plate
		Included
AMD5344-ST, SB, AG, MG, WG, BG	AMD5444-ST, SB, AG, MG, WG, BG	
		Included
AMD5344-ST, SB, AG, MG, WG, BG	AMD5444-ST, SB, AG, MG, WG, BG	
		Included
		AMD5053
		

Concept bs
Naturally aestetics.

Nature rarely presents us with straight lines and the Concept bs range of switches reflects this. Rather than rigidly sticking to squares, it steps outside the box to add some subtle curves to your interior design.



01 white
02 silver
03 elegant grey
04 silver champagne
05 pearl gold

Materials
High quality polycarbonate with improved flame-retardant characteristics and colour stability.

Concept bs

Selected functions.

01

02



03



04



05



06



07



08



09



10



11



12



13



14



15



16



17



18



19



20



21



22



23



01 Rocker switch 1-gang
02 Rocker switch 2-gang
03 Rocker switch 3-gang
04 Rocker switch 4-gang
05 Rocker switch 1-gang with LED
06 Rocker switch 2-gang with LED
07 Rocker switch 3-gang with LED
08 DND/PW/MUR push switch
09 1-gang 1-way countdown time switch
10 Rotary dimmer
11 Card switch
12 Emergency switch
13 BS socket outlet
14 BS switched socket outlet
15 BS switched socket outlet with neon
16 BS round pin switched socket outlet
17 BS round pin switched socket outlet with neon
18 2-gang BS switched socket outlet
19 2-gang BS switched socket outlet with neon
20 1-gang telephone socket outlet
21 2-gang telephone and computer socket outlet
22 TV socket outlet, dead-end feeder
23 Sat socket outlet, isolated

01

02

1- to 5-gang cover frame for horizontal installation.
01 88 mm × 90 mm
02 175 mm × 90 mm

- High quality polycarbonate material with improved flame-retardant characteristics,
- practical light switch range includes electronics,
- hospitality solutions,
- compatible with KNX and ABB wiring accessories.



LED indicator light makes switches even more attractive.

For more information about light switch ranges visit ABB global web sites.

Concept bs
Switches

Product	Article-No.	Order-No.	Pack/Qty
	**1-gang 1-way switch** Rated current: 10AX		
White	**AC101**		15
	**1-gang 2-way switch** Rated current: 10AX		
White	**AC105**		15
	**Intermediate switch** Rated current: 10AX		
White	**AC119**		15
	**1-gang 1-way switch** Rated current: 20AX		
White	**AC110**		15
	**1-gang 2-way switch** Rated current: 20AX		
White	**AC112**		15
	**1-gang 1-way double pole switch, with marking “On”** Rated current: 20AX		
White	**AC111**		15

Product	Article-No.	Order-No.	Pack/Qty
	**1-gang 1-way push switch** Rated current: 10AX		
White	**AC430**		15
	**1-gang 2-way double pole switch** Rated current: 20AX		
White	**AC196**		15
	**Fan isolator 3 pole** Rated current: 10A		
White	**AC134**		15
	**2-gang 1-way switch** Rated current: 10AX		
White	**AC102**		15
	**2-gang 2-way switch** Rated current: 10AX		
White	**AC106**		15
	**2-gang 1-way switch** Rated current: 20AX		
White	**AC114**		15

Concept bs
Switches

Product	Article-No.	Order-No.	Pack/Qty
	**2-gang 2-way switch** Rated current: 20AX		
White	**AC115**		15
	**2-gang 1-way double pole switch, with marking “On”** Rated current: 20AX		
White	**AC113**		15
	**2-gang 1-way push switch** Rated current: 10A		
White	**AC438**		15
	**3-gang 1-way switch** Rated current: 10AX		
White	**AC103**		15
	**3-gang 2-way switch** Rated current: 10AX		
White	**AC107**		15
	**3-gang 1-way switch** Rated current: 16AX		
White	**AC116**		15

Product	Article-No.	Order-No.	Pack/Qty
	**3-gang 2-way switch** Rated current: 16AX		
White	**AC121**		15
	**4-gang 1-way switch** Rated current: 10AX		
White	**AC104**		15
	**4-gang 2-way switch** Rated current: 10AX		
White	**AC108**		15
	**4-gang 1-way switch** Rated current: 16AX		
White	**AC117**		15
	**3-gang 1-way switch (146 type)** Rated current: 10AX		
White	**AC128**		8
	**3-gang 2-way switch (146 type)** Rated current: 10AX		
White	**AC190**		8

Concept bs
Switches

Product	Article-No.	Order-No.	Pack/Qty
	**3-gang 1-way switch (146 type)** Rated current: 20AX		
White	**AC192**		8
	**3-gang 2-way switch (146 type)** Rated current: 20AX		
White	**AC194**		8
	**4-gang 1-way switch (146 type)** Rated current: 10AX		
White	**AC129**		8
	**4-gang 2-way switch (146 type)** Rated current: 10AX		
White	**AC191**		8
	**4-gang 1-way switch (146 type)** Rated current: 20AX		
White	**AC193**		8
	**4-gang 2-way switch (146 type)** Rated current: 20AX		
White	**AC195**		8
	**1-gang 1-way switch with LED/decorative line** Rated current: 10AX		
White	**AC161**		15

Product	Article-No.	Order-No.	Pack/Qty
	**1-gang 2-way switch with LED/decorative line** Rated current: 10AX		
White	**AC164**		15
	**1-gang 1-way switch with LED/decorative line** Rated current: 20AX		
White	**AC170**		15
	**1-gang 2-way switch with LED/decorative line** Rated current: 20AX		
White	**AC172**		15
	**1-gang 1-way double pole switch with LED/decorative line and marking “On”** Rated current: 20AX		
White	**AC171**		15
	**1 gang 1 way double pole switch with LED/decorative line and marking “On” and “water heater”** Rated current: 20AX		
White	**AC171WH**		15
	**2-gang 1-way switch with LED/decorative line** Rated current: 10AX		
White	**AC162**		15

Concept bs
Switches

Product	Article-No.	Order-No.	Pack/Qty
	**2-gang 2-way switch with LED/decorative line** Rated current: 10AX		
White	**AC165**		15
	**2-gang 1-way switch with LED/decorative line** Rated current: 20AX		
White	**AC173**		15
	**2-gang 2-way switch with LED/decorative line** Rated current: 20AX		
White	**AC174**		15
	**2-gang 1-way double pole switch with LED/decorative line and marking “On”** Rated current: 20AX		
White	**AC178**		15
	**3-gang 1-way switch with LED/decorative line** Rated current: 10AX		
White	**AC163**		15
	**3-gang 2-way switch with LED/decorative line** Rated current: 10AX		
White	**AC166**		15

Product	Article-No.	Order-No.	Pack/Qty
	**3-gang 2-way switch with LED/decorative line** Rated current: 16AX		
White	**AC175**		15
	1 gang 1 way double pole switch with LED Rated current: 32A		
White	**AC176**		8
	**1 gang 1 way double pole switch with LED** Rated current: 45A		
White	**AC177**		10
	**45A double pole switch with neon and 13A switched socket outlet with neon** Rated current: 45A-13A		
White	**AC118**		5
	**1-gang 1-way double pole switch, with marking “On”, with flex outlet** Rated current: 20AX		
White	**AC120**		10
	**1-gang 1-way double pole switch, with marking “On”, “water heater”, with flex outlet** Rated current: 20AX		
White	**AC120WH**		10

Concept bs

Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**BS socket outlet** Rated current: 13A		
White	**AC208**		15
	**BS single pole switched socket outlet** Rated current: 13A		
White	**AC224**		15
	**BS double pole switched socket outlet** Rated current: 13A		
White	**AC237**		15
	**BS single pole switched socket outlet with neon** Rated current: 13A		
White	**AC229**		15
	**BS double pole switched socket outlet with neon** Rated current: 13A		
White	**AC238**		15
	**BS single pole round pin switched socket outlet** Rated current: 15A		
White	**AC209**		14
	**BS single pole round pin switched socket outlet with neon** Rated current: 15A		
White	**AC231**		14

Product	Article-No.	Order-No.	Pack/Qty
	**BS round pin socket outlet** Rated current: 5A		
White	**AC210**		15
	**Schuko socket** Rated current: 16A		
White	**AC296**		10
	**Schuko socket without child protection** Rated current: 16A		
White	**AC296-001**		10
	**2-gang BS single pole switched socket outlet** Rated current: 13A		
White	**AC227**		8
	**2-gang BS double pole switched socket outlet** Rated current: 13A		
White	**AC239**		8
	**2-gang BS single pole switched socket outlet with neon** Rated current: 13A		
White	**AC230**		8
	**2-gang BS double pole switched socket outlet with neon** Rated current: 13A		
White	**AC240**		8

Concept bs

Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**2-gang Euro-American socket outlet** Rated current: 10A		
White	**AC212**		10
	**2-gang Euro-American switched socket outlet** Rated current: 10A		
White	**AC222**		10
	**2-gang Euro-American switched socket outlet with neon** Rated current: 10A		
White	**AC234**		10

Data outlets

Product	Article-No.	Order-No.	Pack/Qty
	**1-gang telephone outlet, RJ11** 4-pole UTP		
White	**AC321**		10
	**2-gang telephone outlet, RJ11** 4-pole UTP		
White	**AC322**		10
	**1-gang computer outlet, RJ45, cat. 5e** 8-pole UTP		
White	**AC331**		10
	**1-gang computer outlet, RJ45, cat. 6** 8-pole UTP		
White	**AC333**		10
	**2-gang computer outlet, RJ45, cat. 5e** 8-pole UTP		
White	**AC332**		10
	**2-gang computer outlet, RJ45, cat.6** 8-pole UTP		
White	**AC329**		10
	**2-gang telephone outlet RJ11, 4-pole & computer outlet RJ45, cat. 5e** 8-pole UTP		
White	**AC323**		10

Concept bs

Data outlets

Product	Article-No.	Order-No.	Pack/Qty
	**2-gang telephone outlet RJ11, 4-pole & computer outlet RJ45, cat. 6** 8-pole UTP		
White	**AC330**		10
	**1-gang TV outlet** dead-end feeder		
White	**AC301**		10
	**Sat outlet** F-type dead-end-feeder, isolated		
White	**AC303**		10
	**TV outlet connector** F-type		
White	**AC307**		10
	**TV & FM outlet** F-type dead-end-feeder, isolated		
White	**AC312**		10

Product	Article-No.	Order-No.	Pack/Qty
	**TV & telephone outlet** UTP		
White	**AC324**		10
	**Audio outlet** 2 terminals		
White	**AC341**		10
	**Audio outlet** 4 terminals		
White	**AC342**		10

Concept bs

Function control switches

Product	Article-No.	Order-No.	Pack/Qty
	**Rotary dimmer** Power: 25W-600W Lighting: ☼, ⊐⊏⊗ Short circuit protection Ambience temperature: -5-+40°C Base in box: 31.3mm		
White	**AC412**		8
	**Volume control switch** 5-15W, (0-100)V~ With fire alarm terminal		
White	**AC416**		8
	**Countdown timer & 1-gang 1-way combination switch** 10AX, 250V~ Time setting: 10-120min Two seperate switching contacts		
White	**AC411**		10
	**Emergency switch** 6A, 230V~ Sending alarm signal manually, using key to release		
White	**AC419**		10
	**4 step rotary switch** 300W, 230V~ With high, mid, low fan speed selection		
White	**AC413**		8
	**Fan Controller** 500VA, 250V~, 50Hz		
White	**AC422**		8
	**Card switch** Rated current: 20A * Suitable for several loads, time delay: 30±5s		
White	**AC402**		8

Product	Article-No.	Order-No.	Pack/Qty
	**Bell push-switch “Do Not Disturb” marking and indicator** Rated current: 10A		
White	**AC403-001**		12
	**Bell push-switch “Do Not Disturb” & “Please Clean Room” marking and indicator** Rated current: 10A		
White	**AC403-002**		12
	**Bell push-switch “Do Not Disturb”, & “Please Clean Room”& “Please Wait” marking and indicator** Rated current: 10A		
White	**AC403**		12
	**Shaver socket outlet** Input: 230V~, 50Hz/60Hz Output: 115V/230V~, 20VA		
White	**AC401**		1
	**Shaver socket outlet (horizontal)** Input: 230V~, 50Hz/60Hz Output: 115V/230V~, 20VA		
White	**AC401-001**		1
	**Push switch with “bell” symbol** Rated current: 10A		
White	**AC429**		15

Concept bs

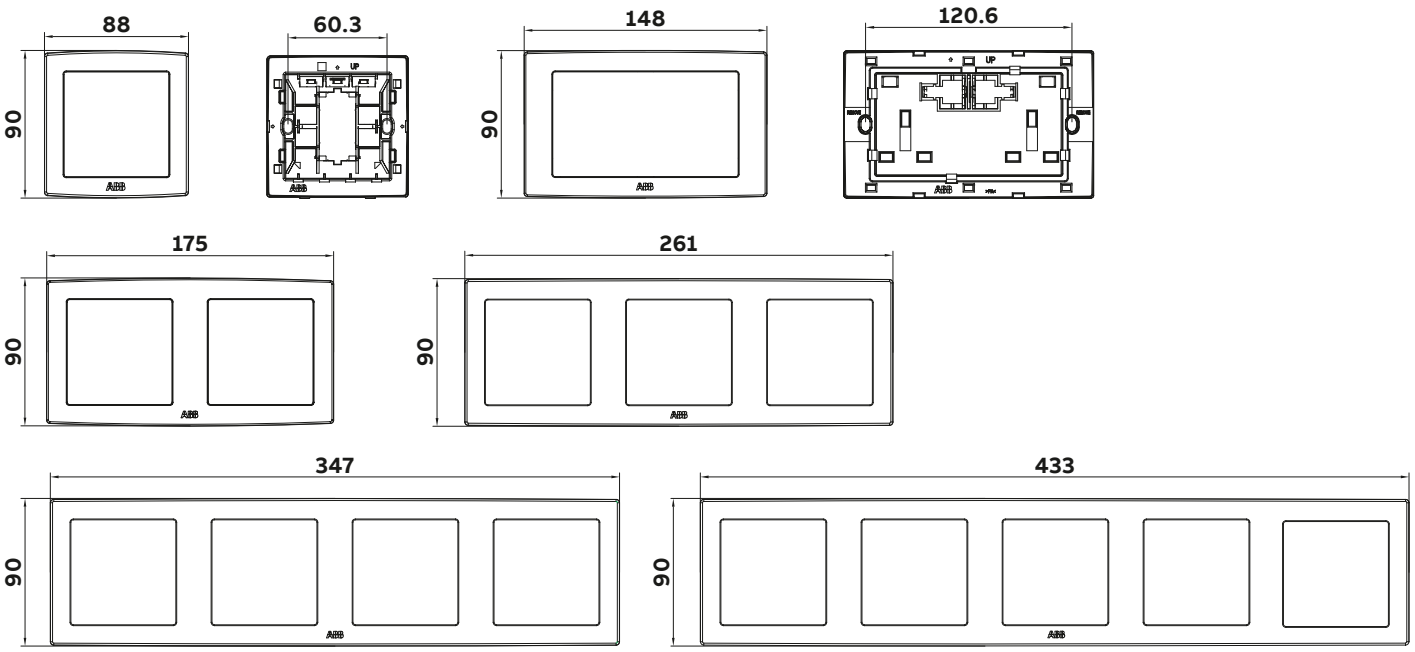
FCU and Flex Outlets/Accessories

Product	Article-No.	Order-No.	Pack/Qty
	1-gang blank plate		
White	**AC504**		20
	2-gang blank plate		
White	**AC505**		10
	1-gang adapter plate for Busch-Jaeger solo / future / carat / pure series (64mm × 64mm)		
White	**AC503**		20
	**Fused connection unit** Rated current: 13A		
White	**AC506**		10
	Fused connection unit with neon Rated current: 13A		
White	**AC577**		10
	**Switched fused connection unit with neon** Rated current: 13A		
White	**AC507**		10

Product	Article-No.	Order-No.	Pack/Qty
	**1-gang frame Concept bs**		
White	**AC5101**		60
	**2-gang frame Concept bs** for dual gang box (screw hole distance: 26mm)		
White	**AC5201**		30
	3-gang frame Concept bs (screw hole distance: 26mm)		
White	**AC5103**		30
	4-gang frame Concept bs (screw hole distance: 26mm)		
White	**AC5104**		30
	5-gang frame Concept bs (screw hole distance: 26mm)		
White	**AC5105**		1

Concept bs

Dimensions of Concept bs



Unit: mm

Inora

Your first choice, simple and elegant

Whether it's in a kitchen, a living room or a child's room, with a total above-wall switch height of 8.5 mm, Inora is your first choice, simple and elegant.

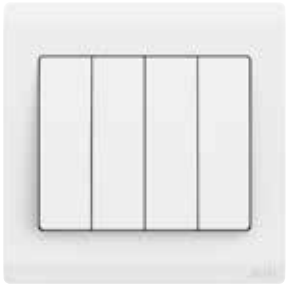




White



Classic grey - G



White switch



Starry black - 885



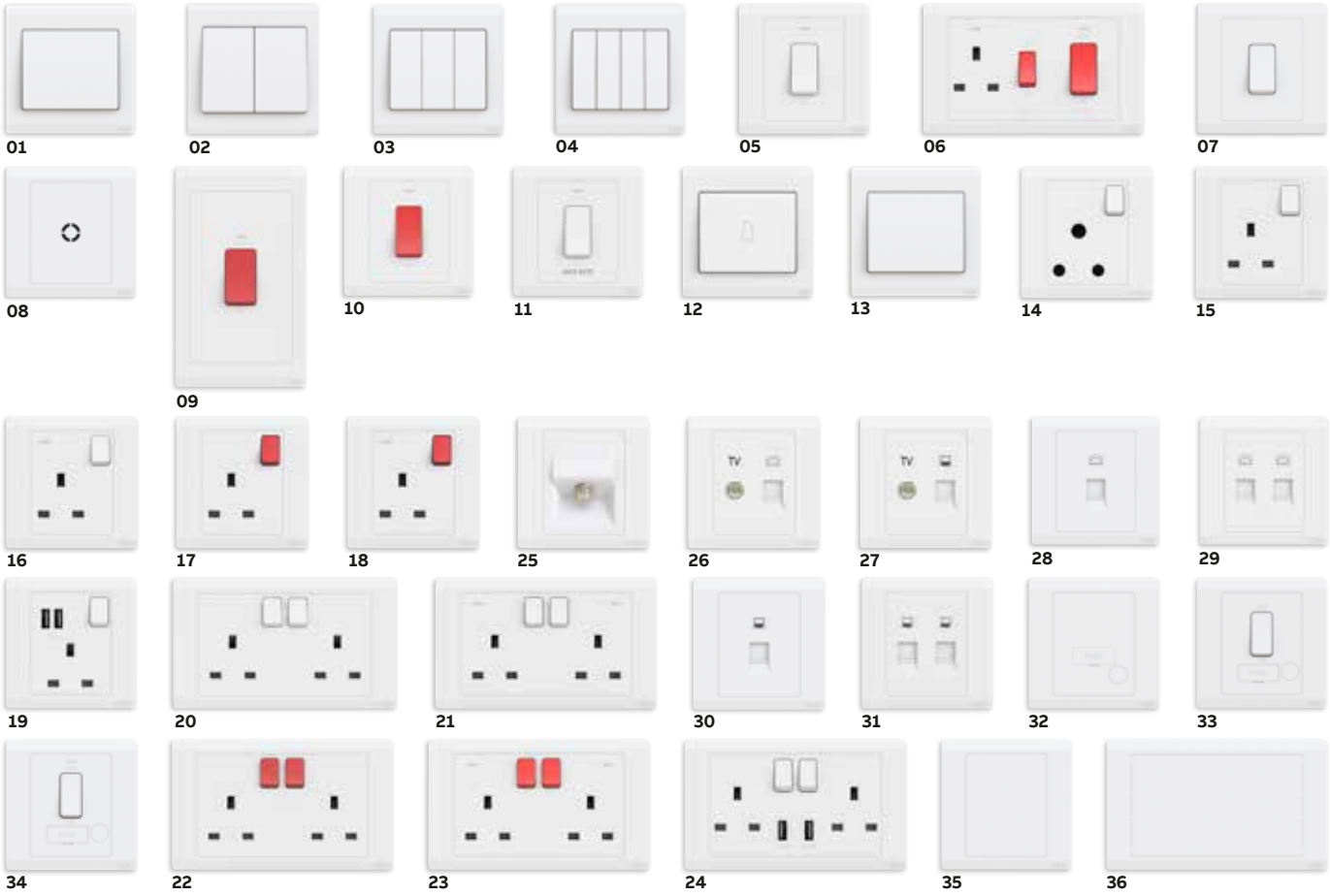
Royal gold - PG



White socket

Product overview

Switches



01 1gang 1way 10 AX switch
01 1gang 2way 10 AX switch
02 2gang 1way 10 AX switch
02 2gang 2way 10 AX switch
03 3gang 1way 10 AX switch
03 3gang 2way 10 AX switch
04 4gang 1way 10 AX switch
04 4gang 2way 10 AX switch
05 1gang 1way 20 A DP switch with illumination
06 2gang 1way 45 A DP switch & 13 A switched socket with illumination
07 1gang intermediate 10 AX switch
08 20 A Flex outlet
09 1gang 45 A DP switch with illumination (6X3)
10 1gang 1way 32 A DP switch with illumination
10 1gang 1way 45 A DP switch with illumination
11 1gang 1way 20 A DP SW with illumination-marked water heater
12 1gang 1way 10 A push switch-marked BELL
13 1gang 1way 10 A push switch
14 1gang 15 A switched socket SP
15 1gang 13 A switched socket SP
15 1gang 13 A switched socket DP
16 1gang 13 A switched socket DP with illumination
16 1gang 13 A switched socket SP with illumination
17 1gang 13 A switched socket SP with red rocker
18 1gang 13 A switched socket SP with red rocker & illumination
19 1gang BS switched socket DP with USB, type A*2
20 2gang 13 A switched socket SP
20 2gang 13 A switched socket DP
21 2gang 13 A switched socket SP with illumination
21 2gang 13 A switched socket DP with illumination
22 2gang 13 A switched socket SP with red rocker
23 2gang 13 A switched socket SP with red rocker & illumination
24 2gang BS switched socket DP with USB, type A*2
25 1gang SAT outlet - 45 degree
26 2gang TV/ telephone outlet
27 2gang TV/ data outlet RJ45 Cat.5e
28 1gang telephone outlet RJ11
29 2gang telephone outlet RJ11
30 1gang data outlet RJ45 Cat.6a
30 1gang data outlet RJ45 Cat.5e
30 1gang data outlet housing
30 1gang data outlet RJ45 Cat.6
31 2gang data outlet RJ45 Cat.6a
31 2gang data outlet RJ45 Cat.6
31 2gang data outlet RJ45 Cat.5e
31 2gang data outlet housing
32 1gang 13 A unswitch fused connection unit
33 1gang 13 A switch fused connection unit
34 1gang 13 A switch fused connection unit with illumination
35 1gang Blank plate
36 2gang Blank plate

Product overview
Switches

Product	Article-No.	Order-No.	Pack/Qty
	**1gang 1way 10 AX switch** Rated current: 10 AX Flush-mounted Box Dimension: 35 mm		
white	**BL101**	2TCZ171001R0030	10
	**2gang 1way 10 AX switch** Rated current: 10 AX Flush-mounted Box Dimension: 35 mm		
white	**BL102**	2TCZ171003R0030	10
	**3gang 1way 10 AX switch** Rated current: 10 AX Flush-mounted Box Dimension: 35 mm		
white	**BL103**	2TCZ171005R0030	10
	**4gang 1way 10 AX switch** Rated current: 10 AX Flush-mounted Box Dimension: 35 mm		
white	**BL104**	2TCZ171007R0030	10
	**1gang 2way 10 AX switch** Rated current: 10 AX Flush-mounted Box Dimension: 35 mm		
white	**BL105**	2TCZ171002R0030	10
	**2gang 2way 10 AX switch** Rated current: 10 AX Flush-mounted Box Dimension: 35 mm		
white	**BL106**	2TCZ171004R0030	10
	**3gang 2way 10 AX switch** Rated current: 10 AX Flush-mounted Box Dimension: 35 mm		
white	**BL107**	2TCZ171006R0030	10

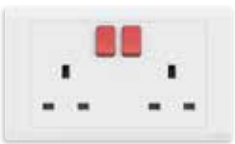
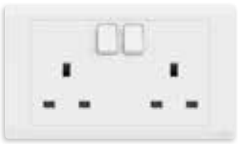
Product	Article-No.	Order-No.	Pack/Qty
	**4gang 2way 10 AX switch** Rated current: 10 AX Flush-mounted Box Dimension: 35 mm		
white	**BL108**	2TCZ171008R0030	10
	**1gang 1way 20 A DP switch with illumination** Rated current: 20 A Flush-mounted Box Dimension: 35 mm		
white	**BL111S**	2TCZ171020R0070	12
	**2gang 1way 45 A DP switch & 13 A switched socket with illumination** Rated current: 45 A/13 A Flush-mounted Box Dimension: 35 mm		
white	**BL118**	2TCZ171015R0090	6
	**1gang intermediate 10 AX switch** Rated current: 10 AX Flush-mounted Box Dimension: 35 mm		
white	**BL119S**	2TCZ171021R0030	12
	**20 A Flex outlet** Rated current: 20 A Flush-mounted Box Dimension: 35 mm		
white	**BL120**	2TCZ171099R0070	12
	**1gang 45 A DP switch with illumination (6X3)** Rated current: 45 A Flush-mounted Box Dimension: 35 mm		
white	**BL143**	2TCZ171019R0090	6
	**1gang 1way 20 A DP SW with illumination-marked water heater** Rated current: 20 A Flush-mounted Box Dimension: 35 mm		
white	**BL171WH**	2TCZ171012R0075	12

Product overview
Switches and Socket

Product	Article-No.	Order-No.	Pack/Qty
	**1gang 1way 32 A DP switch with illumination** Rated current: 32 A Flush-mounted Box Dimension: 35 mm		
white	**BL176**	2TCZ171013R0090	10
	**1gang 1way 45 A DP switch with illumination** Rated current: 45 A Flush-mounted Box Dimension: 35 mm		
white	**BL179**	2TCZ171098R0090	10
	**1gang 1way 10 A push switch-marked BELL** Rated current: 10 A Flush-mounted Box Dimension: 35 mm		
white	**BL429**	2TCZ171011R0030	10
	**1gang 1way 10 A push switch** Rated current: 10 A Flush-mounted Box Dimension: 35 mm		
white	**BL430**	2TCZ171010R0030	10

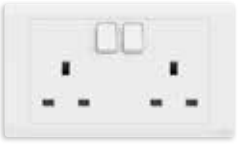
Socket

	**1gang 15 A switched socket SP** Rated current: 15 A Flush-mounted Box Dimension: 35 mm		
white	**BL209**	2TCZ172012R0050	10
	**1gang 13 A switched socket SP with red rocker & illumination** Rated current: 13 A Flush-mounted Box Dimension: 35 mm		
white	**BL213**	2TCZ172020R0040	10
	**1gang 13 A switched socket SP with red rocker** Rated current: 13 A Flush-mounted Box Dimension: 35 mm		
white	**BL214**	2TCZ172019R0040	

Product	Article-No.	Order-No.	Pack/Qty
	**2gang 13 A switched socket SP with red rocker** Rated current: 13 A Flush-mounted Box Dimension: 35 mm		
white	**BL215**	2TCZ172021R0040	6
	**1gang 13 A switched socket SP** Rated current: 13 A Flush-mounted Box Dimension: 35 mm		
white	**BL224**	2TCZ172001R0040	12
	**2gang 13 A switched socket SP** Rated current: 13 A Flush-mounted Box Dimension: 35 mm		
white	**BL227**	2TCZ172010R0040	6
	**1gang 13 A switched socket SP with illumination** Rated current: 13 A Flush-mounted Box Dimension: 35 mm		
white	**BL229**	2TCZ172002R0040	12
	**2gang 13 A switched socket SP with illumination** Rated current: 13 A Flush-mounted Box Dimension: 35 mm		
white	**BL230**	2TCZ172011R0040	6
	**2gang 13 A switched socket SP with red rocker & illumination** Rated current: 13 A Flush-mounted Box Dimension: 35 mm		
white	**BL236**	2TCZ172094R0040	6
	**1gang 13 A switched socket DP** Rated current: 13 A Flush-mounted Box Dimension: 35 mm		
white	**BL237**	2TCZ172095R0040	12

Product overview

Socket outlets

Product	Article-No.	Order-No.	Pack/Qty
	**1gang 13 A switched socket DP with illumination** Rated current: 13 A Flush-mounted Box Dimension: 35 mm		
white	**BL238**	2TCZ172096R0040	12
	**2gang 13 A switched socket DP** Rated current: 13 A Flush-mounted Box Dimension: 35 mm		
white	**BL239**	2TCZ172097R0040	6
	**2gang 13 A switched socket DP with illumination** Rated current: 13 A Flush-mounted Box Dimension: 35 mm		
white	**BL240**	2TCZ172098R0040	6
	**1gang BS switched socket DP with USB, type A*2** Rated current: 13 A Flush-mounted Box Dimension: 47 mm		
white	**BL261**	2TCZ172016R0040	10
	**2gang BS switched socket DP with USB, type A*2** Rated current: 13 A Flush-mounted Box Dimension: 47 mm		
white	**BL262**	2TCZ172017R0040	6

Data outlets

	**1gang data outlet RJ45 Cat.6a** Flush-mounted Box Dimension: 35 mm		
white	**BL318**	2TCZ173020R0010	12
	**1gang telephone outlet RJ11** Flush-mounted Box Dimension: 35 mm		
white	**BL321**	2TCZ173006R0010	10

Product	Article-No.	Order-No.	Pack/Qty
	**2gang telephone outlet RJ11** Flush-mounted Box Dimension: 35 mm		
white	**BL322**	2TCZ173012R0010	10
	**2gang TV/ telephone outlet** 5-1000MHz RJ11 Flush-mounted Box Dimension: 35 mm		
white	**BL324**	2TCZ173010R0010	10
	**2gang TV/ data outlet RJ45 Cat.5e** 5-1000MHz Flush-mounted Box Dimension: 35 mm		
white	**BL325**	2TCZ173016R0010	10
	**2gang data outlet RJ45 Cat.6** Flush-mounted Box Dimension: 35 mm		
white	**BL329**	2TCZ173014R0010	10
	**1gang data outlet RJ45 Cat.5e** Flush-mounted Box Dimension: 35 mm		
white	**BL331**	2TCZ173007R0010	10
	**1gang data outlet housing** Flush-mounted Box Dimension: 35 mm		
white	**BL331-H**	2TCZ173017R0010	18
	**2gang data outlet RJ45 Cat.5e** Flush-mounted Box Dimension: 35 mm		
white	**BL332**	2TCZ173013R0010	10

Product overview

Data outlets

Product	Article-No.	Order-No.	Pack/Qty
	**2gang data outlet housing** Flush-mounted Box Dimension: 35 mm		
white	**BL332-H**	2TCZ173018R0010	18
	**1gang data outlet RJ45 Cat.6** Flush-mounted Box Dimension: 35 mm		
white	**BL333**	2TCZ173008R0010	12
	**2gang data outlet RJ45 Cat.6a** F-type Flush-mounted Box Dimension: 35 mm		
white	**BL308**	2TCZ173099R0010	14
	**1gang SAT outlet - 45 degree** RJ45 Cat.6a Flush-mounted Box Dimension: 35 mm		
white	**BL317**	2TCZ173019R0010	12

FCU & Flex outlets

	1gang 13 A unswitch fused connection unit Rated current: 13 A Flush-mounted Box Dimension: 35 mm		
white	**BL506**	2TCZ175003R0040	14
	**1gang 13 A switch fused connection unit with illumination** Rated current: 13 A Flush-mounted Box Dimension: 35 mm		
white	**BL507**	2TCZ175004R0040	12
	**1gang 13 A switch fused connection unit** Rated current: **13A** Flush-mounted Box Dimension: 35 mm		
white	**BL508**	2TCZ175099R0040	12

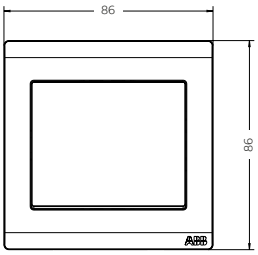
Accessories

Product	Article-No.	Order-No.	Pack/Qty
	1gang Blank plate Flush-mounted Box Dimension: 35 mm		
white	**BL504**	2TCZ175001R0010	20
	2gang Blank plate Flush-mounted Box Dimension: 35 mm		
white	**BL505**	2TCZ175002R0010	14

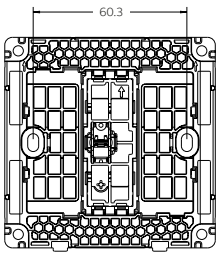
Product Technical Information

Dimensions

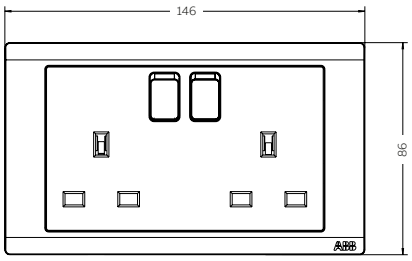
Dimensions for 1gang frames



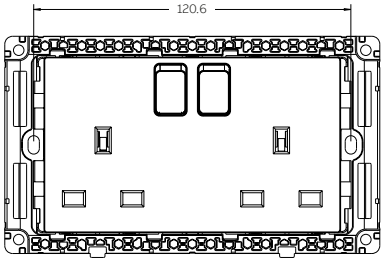
Distance between fixing screws for 1gang frames



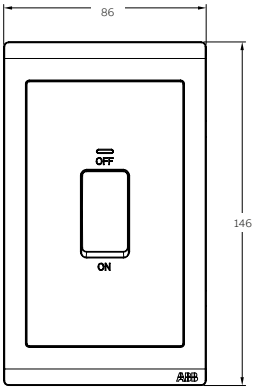
Dimensions for 2gang frames



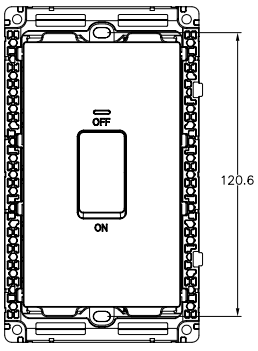
Distance between fixing screws for 2gang frames



Dimensions for 1gang 45A DP switch (6x3)



Distance between fixing screws for 45A DP switch (6x3)



Notes

ocean®

Beauty with inner values.

Fascinates due to its form and colour and has a prize-winning look. This range is convincing not only by design but also by functionality, because it is robust, easy to install and versatile.



01 grey / blue-green
02 alpine white

Materials
Cover: thermoplastic cover (PP), fracture-resistant, UV-resistant, weather-proof, free of PVC and halogen.

ocean®

Selected functions.

01



02



03



04



05



06



07



08



09



10



11



12



13



14



15



16



01 Rocker switch 1-gang
02 Rocker switch 2-gang
03 Rocker switch 1-gang with neutral lens
04 Rocker switch 1-gang with labelling field
05 Rocker switch 1-gang with red neon lens
06 Push-switch 1-gang
07 Push-switch 1-gang with neutral lens
08 Blind switch with labelling field
09 Key switch
10 SCHUKO® socket outlet with hinged lid
11 SCHUKO® socket outlet With security lock in hinged lid
12 Socket outlet with earthing pin
13 Twilight switch with labelling field
14 SCHUKO® socket outlet 2-gang, vertical installation
15 SCHUKO® socket outlet 2-gang, horizontal installation
16 SCHUKO® socket outlet 3-gang, horizontal installation

For more information about light switch ranges visit ABB global web sites.

ocean®

The specialist for extreme cases.

01 02 03 04



01 Push-button coupling 1/2-gang with integrated bus coupler
Article-No. 6108/04-500
02 Push-button for push-button coupling 1/2-gang with integrated bus coupler
Article-No. 2601/6 W-54
03 Push-button coupling 2/4-gang with integrated bus coupler
Article-No. 6108/05-500
04 Push-button for push-button coupling 2/4-gang with integrated bus coupler
Article-No. 2601/5 W-54

ocean®

Lighting inserts.

Application for		V	mA	W	Art. No. Order No.	Art. No. Order No.	Art. No. Order No.
Suitable for devices 2601/ . . . 2621/ . . .					 Neon/incandescent glow lamps with connecting cable.	 Neon/incandescent lamps with E-10 thread	
1.	SM switch/push-switch without serial switch	230	0,6		**8332-1** [2] 1784-0-0016		
2.	SM switch/push-switch without serial switch	230	1,0		**8346-1** [1) 2)] 1784-0-0321		
3.	SM serial switch	230	0,6		**8339-1** [2] 1784-0-0040		
4.	For SM switch/push-button	24	40		**8358** [3] 1784-0-0719		
5.	For SM switch/push-button	12	40		**8335-1** [3] 1784-0-0529		
6.	SM switch/push-switch without serial switch	3, 5, 8	40		**8333-1** [3] 1784-0-0024		
7.	Light signal/warning indicator	230	1,3			**8302** [2] 1780-0-0022	
8.	Light signal	230		3,0		**8340** [3] 1784-0-0222	
9.	Light signal	24		2,0		**8343** [3] 1784-0-0263	
10.	Light signal	12		1,5		**8342** [3] 1784-0-0255	
11.	Light signal	6		1,2		**8341** [3] 1784-0-0248	
12.	Illumination insert						**2152 NLI-53** 1784-0-0777

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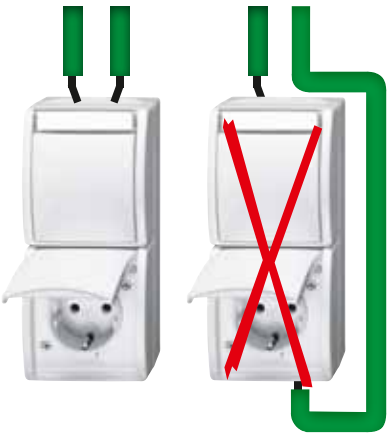
Water protected ranges IP 44.

Combination possibility
Using the cable entry, various inserts are freely combinable. In addition to data communication products, other special inserts like key switches, rocker switches, or twilight switches can be fully integrated.

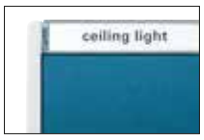


The combination that acts like a single component.
Article-No. 2601/6/20 EW-54
Article-No. 2138 W-54
Article-No. 2661 W-54 with 2863-13-53

Double cable entry from the top



Due to the large connecting space the power cord for the socket outlet, which is connected to a different electric circuit, can be fed through the shielding up to the socket outlet.



Clear assignment of the consumers
Uniform labelling field for switches and socket outlets (optional).



Visible in the dark
Large-area lighting of the labelling field by LED for all switches and push-switches (optional).



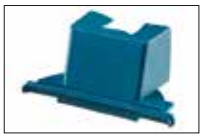
Fast mounting using the PoziDriv screw (+/–), PZ 1 (with triple-pitch fast release stainless steel thread). Same mounting dimensions as the WS range.



Easy connection
Large connection area even for 5 x 2.5 mm² conductors. Easy through--connections underneath the base.



Safe feed-through
Feed-through of earth wire via terminal block.



Colour-matching duct entry
Available in both colours for use in cable ducts.

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Product	Article-No.	Order-No.	Pack/Qty
	**Rocker switch [1] [2] [3]** **1gang 2way** Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**2601/6 W-53-500**	2CKA001085A1637	10/100
alpine white	**2601/6 W-54-500**	2CKA001085A1632	10/100

[1] Label holder 1763-53.
[2] Label holder illuminable with illumination insert 2152 NLI-53.
[3] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

	**Rocker switch [1] [2] [3]** **2gang 1way** Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**2601/5 W-53-500**	2CKA001085A1633	10/100
alpine white	**2601/5 W-54**	2CKA001085A1621	10

[1] Label holder 1763-53.
[2] Label holder illuminable with illumination insert 2152 NLI-53.
[3] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

	**Rocker switch [1] [2] [3]** **1gang** Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**2601/7 W-53**	2CKA001085A1604	10/100
alpine white	**2601/7 W-54**	2CKA001085A1620	10

[1] Label holder 1763-53.
[2] Label holder illuminable with illumination insert 2152 NLI-53.
[3] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

	**Rocker switch [1] [2] [3]** **breaking circuit, 2-pole** Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**2601/2 W-53**	2CKA001085A1605	10/100
alpine white	**2601/2 W-54**	2CKA001085A1627	10

[1] Label holder 1763-53.
[2] Label holder illuminable with illumination insert 2152 NLI-53.
[3] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker switch [1] [2] [3] [4]** **1gang 2way** With neutral (transparent) lens. With illumination. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**2601/6 WGL-53**	2CKA001085A1613	10
alpine white	**2601/6 WGL-54**	2CKA001085A1626	10

[1] Label holder 1763-53.
[2] Label holder illuminable with illumination insert 2152 NLI-53.
[3] Switch illuminable by inserting the lamp 8332-1, 8335-1, 8346-1, 8333-1 and 8358.
[4] Neon lamp 8346-1 included.

	**Rocker switch [1] [2]** **1gang 2way** With labelling field. Labelling field 57.8 x 9.8 mm Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**2601/6 WN-53-500**	2CKA001085A1635	10/100
alpine white	**2601/6 WN-54**	2CKA001085A1624	10/100

[1] Label holder illuminable with illumination insert 2152 NLI-53.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

	**Rocker switch [1] [2] [3] [4] [5]** **1gang 2way** With red neon lens. With neon lamp. With N terminal. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**2601/6 SKW-53-500**	2CKA001085A1636	10/100
alpine white	**2601/6 SKW-54**	2CKA001085A1622	10

[1] Label holder 1763-53.
[2] Label holder illuminable with illumination insert 2152 NLI-53.
[3] Neon lamp 8346-1 included.
[4] Switch illuminable by inserting the lamp 8332-1, 8335-1, 8346-1, 8333-1 and 8358.
[5] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

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Product	Article-No.	Order-No.	Pack/Qty
	**Rocker switch with marking "Heizung" [1] [2] [3] [4] [5]** **1gang 2way** With red neon lens. With neon lamp. With labelling field. Labelling field 57.8 x 9.8 mm With N terminal. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**2601/6 SKWNH-53**	2CKA001085A1609	10/100
alpine white	**2601/6 SKWNH-54**	2CKA001085A1631	10

[1] Label holder illuminable with illumination insert 2152 NLI-53.
[2] Switch illuminable by inserting the lamp 8332-1, 8335-1, 8346-1, 8333-1 and 8358.
[3] Neon lamp 8346-1 included.
[4] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[5] Neutral labelling field enclosed.

Product	Article-No.	Order-No.	Pack/Qty
	**Rocker switch with marking "Heizung" [1] [2] [3] [4] [5]** **breaking circuit, 2-pole** With red neon lens. With neon lamp. With labelling field. Labelling field 57.8 x 9.8 mm Rated voltage: 250 V~ Rated current: 16 AX Suitable for: LEDi / CFLi Rated power: 200 W Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**2601/2 SKWNH-53**	2CKA001085A1610	10
alpine white	**2601/2 SKWNH-54**	2CKA001085A1623	10

[1] Label holder illuminable with illumination insert 2152 NLI-53.
[2] Switch illuminable by inserting the lamp 8332-1, 8335-1, 8346-1, 8333-1 and 8358.
[3] Neon lamp 8346-1 included.
[4] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[5] "Heizung" inscription label also included.

Product	Article-No.	Order-No.	Pack/Qty
	**Push-switch [1] [2] [3]** **1gang 1way** SP (operating current), With N terminal. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**2621 W-53-500**	2CKA001484A0382	10/100
alpine white	**2621 W-54**	2CKA001484A0380	10

[1] Label holder 1763-53.
[2] Label holder illuminable with illumination insert 2152 NLI-53.
[3] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

Product	Article-No.	Order-No.	Pack/Qty
	**Push-switch [1] [2] [3] [4]** **1gang 2way** With neutral (transparent) lens. SP, With N terminal. Can be wired for normally open contacts (stand-by current) or normally closed contacts (operating current). Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**2621 W-53-206**	2CKA001484A0054	10
alpine white	**2621 W-54-206**	2CKA001484A0377	10

[1] Label holder 1763-53.
[2] Label holder illuminable with illumination insert 2152 NLI-53.
[3] Switch illuminable by inserting the lamp 8332-1, 8335-1, 8346-1, 8333-1 and 8358.
[4] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

Product	Article-No.	Order-No.	Pack/Qty
	**Push-switch [1] [2] [3] [4] [5]** **1gang 1way** With neutral (transparent) lens. With illumination. SP (operating current), With N terminal. Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**2621 WGL-53-500**	2CKA001484A0383	10/100
alpine white	**2621 WGL-54**	2CKA001484A0381	10

[1] Label holder 1763-53.
[2] Label holder illuminable with illumination insert 2152 NLI-53.
[3] Push switch illuminable by inserting the lamp 8332-1, 8335-1, 8346-1, 8333-1 and 8358.
[4] Neon lamp 8346-1 included.
[5] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

Product	Article-No.	Order-No.	Pack/Qty
	**Push-switch [1] [2] [3]** **1gang 1way** SP (operating current), With N terminal. With 2 independent answering contacts. With labelling field. Labelling field 57.8 x 9.8 mm Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**2621 WN-53-201**	2CKA001484A0373	10
alpine white	**2621 WN-54-201**	2CKA001484A0378	10

[1] Label holder illuminable with illumination insert 2152 NLI-53.
[2] Push switch illuminable by inserting the lamp 8332-1, 8335-1, 8346-1, 8333-1 and 8358.
[3] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

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Product	Article-No.	Order-No.	Pack/Qty
	**2gang 1way [1] [2] [3]** **2gang 1way, SP (operating current)** 2 actuating covers, 2 x SP, with 2 separate current paths, Without N terminal With labelling field. Labelling field 57.8 x 9.8 mm Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**2621 WN-53-205-101**	2CKA001484A0374	10
alpine white	**2621 WN-54-205-101**	2CKA001484A0379	10

[1] Label holder 1763-53.
[2] Label holder illuminable with illumination insert 2152 NLI-53.
[3] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

Product	Article-No.	Order-No.	Pack/Qty
	**Symbol for push-switch** For ocean® and All Weather 44 ranges. Protection class (Device): IP 44		
	without symbol		
clear-transparent	**2622 N-101**	2CKA001714A0252	10
	light		
clear-transparent	**2622 LI-101**	2CKA001714A0260	10
	bell		
clear-transparent	**2622 KI-101**	2CKA001714A0278	10
	key		
clear-transparent	**2622 TR-101**	2CKA001714A0286	10
	Red		
Red	**2622-12-101**	2CKA001714A0294	10

Product	Article-No.	Order-No.	Pack/Qty
	**Blind switch [1] [2] [3]** **Rocker Switch, SP** With interlock. With labelling field. Labelling field 57.8 x 9.8 mm Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**2601/4 W-53**	2CKA001085A1612	10
alpine white	**2601/4 W-54**	2CKA001085A1625	10

[1] Label holder illuminable with illumination insert 2152 NLI-53.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Blind switches/push switches prevents fast change over between operating directions.

Product	Article-No.	Order-No.	Pack/Qty
	**Blind switch/push switch, with marking [1] [2] [3]** **push-switch, SP** With interlock. With labelling field. Labelling field 57.8 x 9.8 mm Rated voltage: 250 V~ Rated current: 10 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**2621/4 W-53**	2CKA001442A0469	10
alpine white	**2621/4 W-54**	2CKA001442A0474	10

[1] Label holder illuminable with illumination insert 2152 NLI-53.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Blind switches/push switches prevents fast change over between operating directions.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Blind control switch/push-switch [1] [2] [3] [4]** **cover switch, 1gang 2way, DP** For profile semi-cylindrical lock. Key push-switch. Key can only be removed in central position. With labelling field. Labelling field 57.8 x 9.8 mm IP 44 only in combination with appropriate cylindrical locks. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**2712 SLW-53**	2CKA001101A0916	10
alpine white	**2712 SLW-54**	2CKA001101A0924	10

[1] Key not removable in end position.
[2] See semi-cylindrical lock.
[3] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[4] Labelling strip non-illuminable.

Product	Article-No.	Order-No.	Pack/Qty
	**Key switch [1] [2] [3]** **breaking circuit, 1-pole** For profile semi-cylindrical lock. In switched-on and switched-off status the key can be pulled out in the central position, respectively. With labelling field. Labelling field 57.8 x 9.8 mm IP 44 only in combination with appropriate cylindrical locks. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**2733 SLW-53**	2CKA001101A0917	10
alpine white	**2733 SLW-54**	2CKA001101A0925	10

[1] See semi-cylindrical lock.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Labelling strip non-illuminable.

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Product	Article-No.	Order-No.	Pack/Qty
	**Pull cord switch** [1] [2] [3] **1gang 2way** With screw-type terminals. Rated voltage: 250 V~ Rated current: 10 AX Suitable for: LEDi / CFLi Rated power: 100 W, Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**2610/6 W-53**	2CKA001383A0141	10
alpine white	**2610/6 W-54**	2CKA001383A0143	10

[1] Label holder 1763-53.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Labelling strip non-illuminable.

	Pullcord fastening Spare part for: 2610/6 UJ-21x, 2610/6 AP, 2610/6 W-5x Protection class (Device): IP 20		
	1797	2CKA001799A0592	10

	**Neon indicator** [1] [2] [3] [4] [5] **with E 10-thread** With screw-type terminals. without cover, without lamp, IP 44 only in combination with appropriate covers. Rated voltage: 250 V~ Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**2661 W-53**	2CKA001582A0305	10
alpine white	**2661 W-54**	2CKA001582A0328	10

[1] Label holder 1763-53.
[2] Label holder illuminable with illumination insert 2152 NLI.
[3] Indication lamp illuminable using E 10 lamps 8302, 8340, 8341, 8342, 8343.
[4] Use of the intense-light neon lamp 8340 is recommended in the case of red and green covers.
[5] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

	**Cap** **for indication lamp** 2661 W-53 Protection class (Device): IP 20		
clear-transparent	**2863-11-53**	2CKA001563A0148	10
Red	**2863-12-53**	2CKA001563A0149	10
green	**2863-13-53**	2CKA001563A0150	10

	**SCHUKO® socket outlet** [1] [2] **with hinged lid** With screwless terminals. 2 P + E, Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**20 EW-53-500**	2CKA002083A0845	10/100
alpine white	**20 EW-54-500**	2CKA002083A0846	10/100

[1] Label holder 1763-53.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet** [1] [2] [3] **shuttered** With screwless terminals. With hinged lid. 2 P + E, Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**20 EBW-53**	2CKA002083A0842	10/100
alpine white	**20 EBW-54**	2CKA002083A0843	10

[1] Label holder 1763-53.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Increased shock protection .

	**SCHUKO® socket outlet** [1] **with hinged lid and labelling field** With screwless terminals. With labelling field. Labelling field 57.8 x 9.8 mm 2 P + E, Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**20 EWN-53-500**	2CKA002083A0848	10/100
alpine white	**20 EWN-54**	2CKA002083A0831	10/100

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

	**SCHUKO® socket outlet** [1] **with green hinged lid** With screwless terminals. 2 P + E, With green hinged lid, SV (RAL 6018). With labelling field. Labelling field 57.8 x 9.8 mm Continuous coloured marking (hinged lid and base). Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**20 EWN-13-53**	2CKA002083A0819	10
alpine white	**20 EWN-13-54**	2CKA002083A0837	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

	**SCHUKO® socket outlet** [1] **with orange hinged lid** With screwless terminals. 2 P + E, With orange hinged lid, ZSV, (RAL 2004). With labelling field. Labelling field 57.8 x 9.8 mm Continuous coloured marking (hinged lid and base). Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**20 EWN-14-53**	2CKA002083A0820	10
alpine white	**20 EWN-14-54**	2CKA002083A0838	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

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Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1]** **with red hinged lid** With screwless terminals. 2 P + E, With red hinged lid, EDP (RAL 6018). With labelling field. Labelling field 57.8 x 9.8 mm Continuous coloured marking (hinged lid and base). Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**20 EW/DVN-53**	2CKA002083A0825	10
alpine white	**20 EW/DVN-54**	2CKA002083A0839	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

Product	Article-No.	Order-No.	Pack/Qty
	**Combination SCHUKO® socket outlet, with rocker switch [1] [2] [3] [4] [5]** **1gang 2way** For vertical installation. 2 P + E, Rated voltage: 250 V~ Rated current: 16 A Suitable for: LEDi / CFLi Rated current: 10 AX Rated power: 100 W Protection class (Device): IP 44 Dimensions: (L x W x D): 166 mm x 74 mm x 55 mm		
alpine white	**2601/6/20 EW-54**	2CKA001684A0327	5/50
grey / blue-green	**2601/6/20EW-53-500**	2CKA001684A0332	5/50

[1] Label holder 1763-53.
[2] Label holder of the switch illuminable with illumination insert 2152 NLI-53.
[3] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[4] Terminals of the socket outlet suitable for loop connection in accordance with VDE 0620-1.
[5] Instead of the SCHUKO® socket outlets, switches, push-switches, light signals, or SCHUKO®-socket outlets with locks can be used.

Product	Article-No.	Order-No.	Pack/Qty
	**Kombination SCHUKO® Steckdose Saftey+, mit Wippschalter [1] [2] [3] [4] [5]** 1gang 2way For vertical installation. 2 P + E, Rated voltage: 250 V~ Rated current: 16 A Suitable for: LEDi / CFLi Rated current: 10 AX Rated power: 100 W Protection class (Device): IP 44 Dimensions: (L x W x D): 166 mm x 74 mm x 55 mm		
grey / blue-green	**2601/6/20 EBW-53**	2CKA001684A0330	5
alpine white	**2601/6/20 EBW-54**	2CKA001684A0331	5

[1] Label holder 1763-53.
[2] Label holder of the switch illuminable with illumination insert 2152 NLI-53.
[3] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[4] Terminals of the socket outlet suitable for loop connection in accordance with VDE 0620-1.
[5] Instead of the SCHUKO® socket outlets, switches, push-switches, light signals, or SCHUKO®-socket outlets with locks can be used.

Product	Article-No.	Order-No.	Pack/Qty
	**Combination SCHUKO® socket outlet, with rocker switch [1] [2] [3] [4] [5] [6]** **2gang 1way** For vertical installation. 2 P + E, Rated voltage: 250 V~ Rated current: 16 A Suitable for: LEDi / CFLi Rated current: 10 AX Rated power: 100 W Protection class (Device): IP 44 Dimensions: (L x W x D): 166 mm x 74 mm x 55 mm		
grey / blue-green	**2601/5/20EW-53-503**	2CKA001684A0324	5/50
alpine white	**2601/5/20EW-54-503**	2CKA001684A0328	5/50

[1] Label holder 1763-53.
[2] Label holder of the switch illuminable with illumination insert 2152 NLI-53.
[3] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[4] With high cable entry.
[5] Terminals of the socket outlet suitable for loop connection in accordance with VDE 0620-1.
[6] Instead of the SCHUKO® socket outlets, switches, push-switches, light signals, or SCHUKO®-socket outlets with locks can be used.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1] [2]** With screwless terminals. With security lock in hinged lid. 2 P + E, lockable, 2 keys. Cannot be screwed on or dismounted in closed condition. approx. 200 different locks (unsorted), Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**20 EWSL-53**	2CKA002083A0822	10/50
alpine white	**20 EWSL-54**	2CKA002083A0832	10

[1] Label holder 1763-53.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1] [2]** With screwless terminals. With security lock in hinged lid. 2 P + E, Standard lock with 2 identical keys. Cannot be screwed on or dismounted in closed condition. Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**20 EWSL-101-53**	2CKA002083A0823	10
alpine white	**20 EWSL-101-54**	2CKA002083A0833	10

[1] Label holder 1763-53.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

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Product	Article-No.	Order-No.	Pack/Qty
	**2 SCHUKO® socket outlets [1] [2] [3]** With screwless terminals. 2 P + E, With 2 identical security locks in hinged lid and 2 identical keys. Cannot be screwed on or dismounted in closed condition. geminate approx. 200 different locks (unsorted), Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**20/20 EWSL-53**	2CKA002083A0816	1/10
alpine white	**20/20 EWSL-54**	2CKA002083A0836	1

[1] Label holder 1763-53.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] For operating 2 different circuits in shared rooms via user's meter.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1] [2] [3]** **2gang** For vertical installation. With screwless terminals. Prewired with hinged lids, 2 P + E, Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 44 Dimensions: (L x W x D): 166 mm x 74 mm x 55 mm		
grey / blue-green	**20-02 EW-53-500**	2CKA002084A0729	5/50
alpine white	**20-02 EW-54**	2CKA002084A0710	5

[1] Label holder 1763-53.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Instead of the SCHUKO® socket outlets, switches, push-switches, light signals, or SCHUKO®-socket outlets with locks can be used.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1] [2] [3] [4]** **shuttered** 2gang For vertical installation. With screwless terminals. Prewired with hinged lids, 2 P + E, Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 44 Dimensions: (L x W x D): 166 mm x 74 mm x 55 mm		
grey / blue-green	**20-02 EBW-53**	2CKA002084A0719	5
alpine white	**20-02 EBW-54**	2CKA002084A0722	5

[1] Label holder 1763-53.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Instead of the SCHUKO® socket outlets, switches, push-switches, light signals, or SCHUKO®-socket outlets with locks can be used.
[4] Increased shock protection .

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1] [2]** **2gang** For vertical installation. With screwless terminals. Prewired with hinged lids, With labelling field. Labelling field 57.8 x 9.8 mm 2 P + E, Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 44 Dimensions: (L x W x D): 166 mm x 74 mm x 55 mm		
grey / blue-green	**20-02 EWN-53**	2CKA002084A0702	5
alpine white	**20-02 EWN-54**	2CKA002084A0714	5

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Instead of the SCHUKO® socket outlets, switches, push-switches, light signals, or SCHUKO®-socket outlets with locks can be used.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1] [2]** **2gang** For horizontal installation. With screwless terminals. Prewired with hinged lids, 2 P + E, Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 145 mm x 55 mm		
grey / blue-green	**20/2 EW-53-500**	2CKA002084A0726	5/50
alpine white	**20/2 EW-54-500**	2CKA002084A0727	5/50

[1] Label holder 1763-53.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1] [2] [3]** **shuttered** 2gang For horizontal installation. With screwless terminals. Prewired with hinged lids, 2 P + E, Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 145 mm x 55 mm		
grey / blue-green	**20/2 EBW-53**	2CKA002084A0720	5/50
alpine white	**20/2 EBW-54**	2CKA002084A0723	5

[1] Label holder 1763-53.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Increased shock protection .

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Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1]** **2gang** For horizontal installation. With screwless terminals. Prewired with hinged lids, With labelling field. Labelling field 57.8 x 9.8 mm 2 P + E, Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 145 mm x 55 mm		
grey / blue-green	**20/2 EWN-53-500**	2CKA002084A0728	5/50
alpine white	**20/2 EWN-54**	2CKA002084A0715	5/50

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

	**SCHUKO® socket outlet [1]** **2gang with red hinged lids** For horizontal installation. With screwless terminals. 2 P + E, Prewired With red hinged lid, EDP (RAL 6018). With labelling field. Labelling field 57.8 x 9.8 mm Continuous coloured marking (hinged lid and base). Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 145 mm x 55 mm		
grey / blue-green	**20/2 EW/DVN-53**	2CKA002084A0700	5
alpine white	**20/2 EW/DVN-54**	2CKA002084A0713	5

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

	**SCHUKO® socket outlet [1] [2] [3]** **3gang** For horizontal installation. With screw-type terminals. Prewired with hinged lids, 2 P + E, Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 222 mm x 55 mm		
grey / blue-green	**2300/3 EW-53-500**	2CKA002084A0725	1/10
alpine white	**2300/3 EW-54**	2CKA002084A0712	1/10

[1] Label holder 1763-53.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Instead of the SCHUKO® socket outlets, switches, push-switches, light signals, or SCHUKO®-socket outlets with locks can be used.

Product	Article-No.	Order-No.	Pack/Qty
	**SCHUKO® socket outlet [1] [2] [3] [4]** **shuttered** 3gang, For horizontal installation. With screw-type terminals. Prewired with hinged lids, 2 P + E, Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 222 mm x 55 mm		
grey / blue-green	**2300/3 EBW-53**	2CKA002084A0721	1/10
alpine white	**2300/3 EBW-54**	2CKA002084A0724	1/10

[1] Label holder 1763-53.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Instead of the SCHUKO® socket outlets, switches, push-switches, light signals, or SCHUKO®-socket outlets with locks can be used.
[4] Increased shock protection .

	**SCHUKO® socket outlet [1] [2]** **3gang** For horizontal installation. With screw-type terminals. Prewired with hinged lids, With labelling field. 2 P + E, Labelling field 57.8 x 9.8 mm Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 222 mm x 55 mm		
grey / blue-green	**2300/3 EWN-53**	2CKA002084A0704	1/10
alpine white	**2300/3 EWN-54**	2CKA002084A0716	1/10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Instead of the SCHUKO® socket outlets, switches, push-switches, light signals, or SCHUKO®-socket outlets with locks can be used.

	**Socket outlet [1] [2] [3]** **with earthing pin** With screwless terminals. With hinged lid. Suitable for the countries like Poland, Czech Republic. 2 P + E, Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**20 MW-53-500**	2CKA002017A0762	10/100
alpine white	**20 MW-54-500**	2CKA002017A0849	10

[1] Label holder 1763-53.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Terminals suitable for loop connection in acc. with IEC 60 884-1.

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Product	Article-No.	Order-No.	Pack/Qty
	**Socket outlet [1] [2] [3]** **with earthing pin** With screw-type terminals. With hinged lid. Shuttered. Suitable for countries like Belgium. 2 P + E, Rated voltage: 250 V~ Rated current: 16 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**23 MWKS-53-504**	2CKA002017A0763	10/100
alpine white	**23 MWKS-54-504**	2CKA002017A0842	10

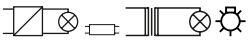
[1] Label holder 1763-53.
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] Terminals suitable for loop connection in acc. with IEC 60 884-1.

	**Busch-Nema socket outlet [1] [2]** **with yellow hinged lid** With screw-type terminals. 2 P + E, With yellow hinged lid (RAL 1018). With labelling field. Labelling field 57.8 x 9.8 mm Rated voltage: 125 V Rated current: 15 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**3015 EWN-53**	2CKA002124A0023	10/100
alpine white	**3015 EWN-54**	2CKA002124A0025	10

[1] Use in accordance with US Standard (e.g. in US military barracks).
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

	**Busch-Nema socket outlet [1] [2]** **with yellow hinged lid** With screw-type terminals. 2 P + E, With yellow hinged lid (RAL 1018). With labelling field. Labelling field 57.8 x 9.8 mm Rated voltage: 125 V Rated current: 20 A Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm		
grey / blue-green	**3016 EWN-53**	2CKA002124A0024	10
alpine white	**3016 EWN-54**	2CKA002124A0026	10

[1] Use in accordance with US Standard (e.g. in US military barracks).
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

Product	Article-No.	Order-No.	Pack/Qty
	**Twilight switch [1] [2]** With labelling field. Labelling field 57.8 x 9.8 mm Switch-on/switch-off delay: approx. 3-6 min non-adjustable. Rated voltage: 230 V~ Rated frequency: 50 Hz Rated current: 16 AX Rated power: 3680 W/VA Brightness limit value: 3 Lux - 500 Lux nominal Protection class (Device): IP 44 Temperature range (Device): -35 °C to 55 °C Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm 		
grey	**2240 W-53**	2CKA006500A0791	1/10
alpine white	**2240 W-54**	2CKA006500A0792	1/10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] Labelling strip non-illuminable.

	**Housing [1] [2] [3] [4] [5]** **with labelling field** larger installation depth for data communication system, suitable for DCS base 1850 built-in ... 1872 built-in and 1876 built-in, With labelling field. Labelling field 57.8 x 9.8 mm Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm Mounting depth: 45 mm		
grey / blue-green	**1758 WN-53**	2CKA001724A2751	10
alpine white	**1758 WN-54**	2CKA001724A4264	10

[1] Not suitable for DCS base 1874 (built-in), 1875 built-in
[2] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[3] DCS base not included
[4] IP 44 only with closed hinged lid.
[5] Not suited for universal modules 0219.

	**Empty box [1] [2] [3]** **with labelling field** larger installation depth for pilot devices of 22.5 mm diameter, Standard version, Labelling field 57.8 x 9.8 mm Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm Mounting depth: 60 mm		
grey / blue-green	**2533 WN-53**	2CKA001724A2752	10
alpine white	**2533 WN-54**	2CKA001724A4281	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] IP 44 only in combination with appropriate control unit
[3] * e.g. of the companies Lumitas, Moeller, Schlegel, Rafi, Elan.

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IP 44

Accessories

Product	Article-No.	Order-No.	Pack/Qty
	**Empty box [1] [2] [3]** **with labelling field** larger installation depth for pilot devices of 22.5 mm diameter, with yellow cover (RAL 1018), Labelling field 57.8 x 9.8 mm Protection class (Device): IP 44 Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm Mounting depth: 60 mm		
grey / blue-green	**2533 WN-15-53**	2CKA001724A2753	10
alpine white	**2533 WN-15-54**	2CKA001724A4282	10

[1] For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2] IP 44 only in combination with appropriate control unit
[3] * e.g. of the companies Lumitas, Moeller, Schlegel, Rafi, Elan.

Product	Article-No.	Order-No.	Pack/Qty
	**FI-SCHUKOMAT, SCHUKO® socket outlets [1] [2] [3]** **with earth leakage circuit breaker** Shuttered. Waterproof. Flush-mounted SCHUKOMAT, VDE 0664. DP cut off (P,N) Without PE monitoring. Rated fault current: 30 mA. With fixing claws. Rated frequency: 45-60 Hz. Complete cover, not combinable. With output terminals for connecting and protecting downsream SCHUKO® socket outlets. Rated voltage: 230 V~ Rated current: 16 A Protection class (Device): IP 44 Temperature range (Device): -25 °C to 40 °C		
alpine white	**3120 EUGB-44**	2CKA003116A0665	1/10

[1] Protective measure according to VDE 0100; can be proven or checked using the Profitest 0100S testing device, for example.
[2] Terminals suitable for loop through connection.
[3] Increased shock protection .

Product	Article-No.	Order-No.	Pack/Qty
	**Cable entry** **double closed** Protection class (Device): IP 44		
blue-green	**2134 W-53**	2CKA001761A1487	10
alpine white	**2134 W-54**	2CKA001761A1507	10
	**Cable entry** **single open** Protection class (Device): IP 44		
blue-green	**2136 W-53**	2CKA001761A1489	10
alpine white	**2136 W-54**	2CKA001761A1508	10
	**Cable bushing** **adapter plate for coupling several devices** Protection class (Device): IP 44		
blue-green	**2138 W-53**	2CKA001761A1490	10
alpine white	**2138 W-54**	2CKA001761A1509	10
	**Cable entry** **high design** Protection class (Device): IP 44		
blue-green	**2139 W-53**	2CKA001761A1491	10
alpine white	**2139 W-54**	2CKA001761A1511	10
	**Cable entry** For pipes with metric thread M 20 x 1.5. Protection class (Device): IP 44		
blue-green	**2137/10 W-53**	2CKA001761A1503	10
alpine white	**2137/10 W-54**	2CKA001761A1512	10
	**Cable entry** For pipes with 20 mm diameter unthreaded. Protection class (Device): IP 44		
blue-green	**2137/11 W-53**	2CKA001761A1506	10
alpine white	**2137/11 W-54**	2CKA001761A1513	10

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Accessories

Product	Article-No.	Order-No.	Pack/Qty
	**Cable entry** Trunking dimension: 15 x 15 mm or 15 x 30 mm. Protection class (Device): IP 44		
blue-green	**2086 W-53**	2CKA001761A1492	10
alpine white	**2086 W-54**	2CKA001761A1510	10
	**Label holder [1])** with neutral foil 57.8 x 9.8 mm for switches and socket outlets in the ocean® program, Protection class (Device): IP 20 Dimensions: (L x W x D): 44052 mm		
clear-transparent	**1763-53**	2CKA001799A0882	10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

	**Illumination insert [1])** with LED, with optical fibre for uniform illumination of the label holder 1763-53 Rated voltage: 230 V~		
clear-transparent	**2152 NLI-53**	2CKA001784A0777	1

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.

	**FI-SCHUKOMAT, SCHUKO® socket outlets [1]) [2]) [3])** **with earth leakage circuit breaker** Shuttered. Waterproof. Surface-mounted SCHUKOMAT, VDE 0664 DP cut off (P,N) Without PE monitoring. Rated fault current: 30 mA. Rated frequency: 45-60 Hz. With output terminals for connecting and protecting downsream SCHUKO® socket outlets. Rated voltage: 230 V~ Rated current: 16 A Protection class (Device): IP 44 Temperature range (Device): -25 °C to 40 °C		
grey	**3120 EWB-53**	2CKA003116A0664	1

[1]) Protective measure according to VDE 0100; can be proven or checked using the Profitest 0100S testing device, for example.
[2]) Connecting terminals approved in accordance with VDE 0620-1 as connectors.
[3]) Increased shock protection .

	**Mounting plate** For individual waterproof/tight SM devices. For fixation with fastening system (fixing screws included in the delivery). Protection class (Device): IP 20		
metal clad	**2609 WS**	2CKA001716A0042	10

Neon lamps, surface-mounted

Product	Article-No.	Order-No.	Pack/Qty
	**Glow lamp with connecting cable** Suitable for surface-mounted devices 2601/..., 2621/... For SM switch/push button, without 2gang 1way. Rated voltage: 230 V Rated current: 0.6 mA Protection class (Device): IP 20		
	8332-1	2CKA001784A0016	10
	**Glow lamp with connecting cable** For SM switch/push button, without 2gang 1way. Suitable for surface-mounted devices 2601/..., 2621/... Rated voltage: 230 V Rated current: 1 mA Protection class (Device): IP 20		
	8346-1	2CKA001784A0321	10
	**Glow lamp with connecting cable** Suitable for surface-mounted devices 2601/4, 2601/5, 2621/4, 2621/...205-101 For SM 2gang 1way. Rated voltage: 230 V Rated current: 0.6 mA Protection class (Device): IP 20		
	8339-1	2CKA001784A0040	100
	**Glow lamp with E 10 thread** **for indication lamps** Suitable for flush or surface-mounted devices 2661U, 2661W For indication lamps. Rated voltage: 230 V Rated current: 1.3 mA Rated current: 1.3 mA		
	8302	2CKA001780A0022	100
	**Incandescent lamp with E 10 thread** **very bright, for indication lamps** Suitable for flush or surface-mounted devices 2661U, 2661W For indication lamps. Rated voltage: 240 V Rated power: 3 W Rated power: 3 W		
	8340	2CKA001784A0222	100

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Incandescent lamps, surface-mounted

Product	Article-No.	Order-No.	Pack/Qty
	**Incandescent lamp with connecting cable** Suitable for surface-mounted devices 2601/..., 2621/... For SM switch/push button. Rated voltage: 12 V Rated current: 40 mA Protection class (Device): IP 20		
	8335-1	2CKA001784A0529	10
	**Incandescent lamp with connecting cable** Suitable for surface-mounted devices 2601/..., 2621/... For SM switch/push button. Rated voltage: 24 V Rated current: 40 mA Protection class (Device): IP 20		
	8358	2CKA001784A0719	10
	**Incandescent lamp with connecting cable** Suitable for surface-mounted devices 2601/..., 2621/... For SM switch/push button, without 2gang 1way. Rated voltage: 3 V Rated current: 40 mA Protection class (Device): IP 20		
	8333-1	2CKA001784A0024	10
	**Incandescent lamp with E 10 thread for indication lamps** Suitable for flush or surface-mounted devices 2661U, 2661W For indication lamps. Rated voltage: 12 V Rated power: 1.5 W Rated power: 1.5 W		
	8342	2CKA001784A0255	100
	**Incandescent lamp with E 10 thread for indication lamps** Suitable for flush or surface-mounted devices 2661U, 2661W For indication lamps. Rated voltage: 24 V Rated power: 2 W Rated power: 2 W		
	8343	2CKA001784A0263	100

Notes

Movement detector

For the pleasant feeling of safety.

These innovative and high-quality optical detection systems by Busch-Jaeger simply make life more comfortable. They are alert, helpful, efficient. And they automatically manage many tasks in every sector of the building. Inside and outdoors. When it comes to safety, they know precisely when the light is needed. And other functions such as heating, blinds and air-conditioning are precisely, intelligently and reliably controlled.



Movement detector

Selected functions.

01



02



03



04



05



06



07



01 Busch-Watchdog 220 MasterLINE,
Colour: white, with anthracite-coloured lens,
incl. IR remote control,
Article-No.: 6847/8 AGM-204-500

02 Busch-Presence detector KNX,
Colour: white, Article-No.: 6131/31-24-500

03 Busch-Presence detector compact,
Colour: white, Article-No.: 6819/60-24-500

04 Busch-Watchdog 110 MasterLINE,
Colour: white, Article-No.: 6855 AGM-204-500

05 Busch-Watchdog Presence tech
BasicLINE Corridor, Article-No.: 6818 U-500

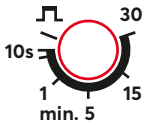
06 Busch-Watchdog 180 flex,
Comfort sensor with select lens,
Switch series solo®, Colour: studio white

07 Busch-Watchdog ProfessionalLINE

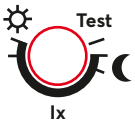
For more information about light switch ranges visit ABB global web sites.

System according to plan
Perfect detection for different applications

The new Busch-Watchdog 180 flex movement detectors combine design, detection quality and flexibility in use.



Setting the switch-off delay pulse operation



Setting the brightness-value threshold/test mode

180-degree lenses
The 180-degree lenses provide perfect detection for different applications. The new Busch-Watchdog sensors are compact and flat. As a result, the movement detectors blend in with the general appearance more discreetly.

Comfort and multi-sensors
The comfort and multi-sensors can also be operated manually above and below the detection lens to switch the light on and off manually if required or to change the intensity of the light in conjunction with a dimmer insert. The operation is familiar and intuitive as with a switch/button operation.



Greater comfort
In addition to an increased selection, the combinable inserts have been technically further developed and offer many new features for reliable and installation-friendly use.



Busch-Watchdog 180 flex,
Standard sensor with select lens



Busch-Watchdog 180 flex,
Comfort sensor with select lens



Busch-Watchdog 180 flex,
Multi-sensor

—
Manual operation of sensors above and below the detection line



Relay insert flex,
1gang
Nominal power:
300 W (LEDi)



Relay insert flex,
2gang
Nominal power:
2x300 W (LEDi)



LED dimmer insert flex,
1gang
Nominal power:
3-240 W/VA (LEDi)



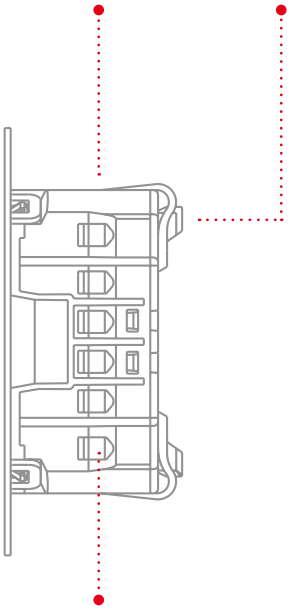
e-contact insert flex,
1gang
Nominal power:
3-240 W/VA (LEDi)



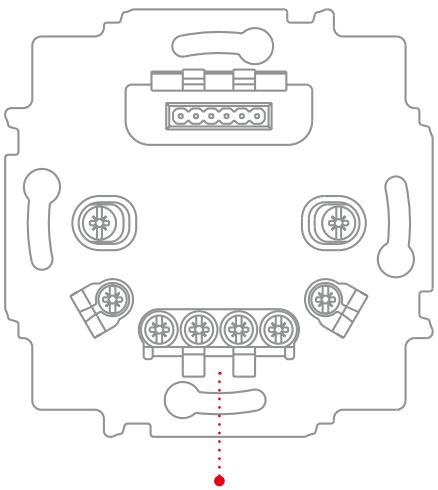
Extension unit insert flex

Flat construction type
25.5 mm

Claw protection
for greater safety



Open clamps also for flexible busbars
for quick mounting



Measuring points accessible from the front
Quick inspection in case of service

Features at a glance

- Fine wire protection: Safe and fast connection of flexible and rigid wires
- Wallpaper compensation: Evens out small unevenness during mounting
- Uniform interface: Many flexible combinations are possible between sensor and actuator
- Extension unit: For operation via conventional push-buttons or connection of the extension unit insert flex

Movement detector

Perfect detection for different applications

Bathroom
Friendly and light in the morning, the atmosphere subdued in the evening and during the night - the demands on the light conditions could barely be more versatile. The Busch-Watchdog 180 flex comfort sensor with the select lense creates an individual light atmosphere with the combination of movement detector and dimmer, and so supports the natural biorhythm.

Stairway
It is the connecting link to our apartments. Although one only spends a brief period of time here, uncomplicated lighting is especially important in the stairway.The hands are full of shopping, in your mind you are aleady on the next floor - but thanks to the Busch-Watchdog 180 flex multi-sensor, there is no irritating switching of the light.

—
01 Busch-Watchdog 180 flex, comfort sensor with select lens
—
02 Busch-Watchdog 180 flex, multi-sensor
—
03 Busch-Watchdog 180 flex, standard with select lens





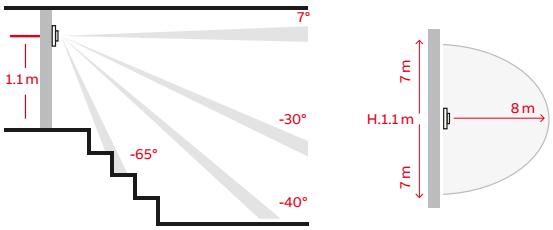


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01



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02

- Personalised light settings, adjusted to the time of day and the situation
- Dimming function supports the natural biorhythm and cares for sustainable power consumption
- Two detection lenses respond exclusively to movements that are created by people and not by inquisitive pets.



Detection range of multi-lense

- Individual light settings including dimming function
- Four detection levels cover the entire stairway
- Energy-saving effect due to automatic switch-on and switch-off.

Movement detector

Perfect detection for different applications

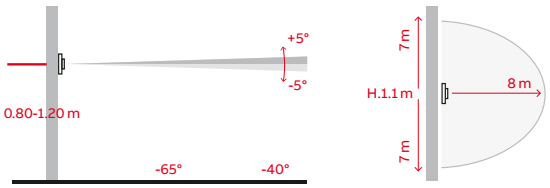
Corridor

The first impression counts! That is why it is especially difficult to create a welcoming light atmosphere in a rather small corridor. In addition, the switched-on light can be quickly forgotten and turn into a power guzzler. The Busch-Watchdog 180 flex standard with select lense detects the entire corridor area and reacts with a combination of movement detector and lighting.





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03



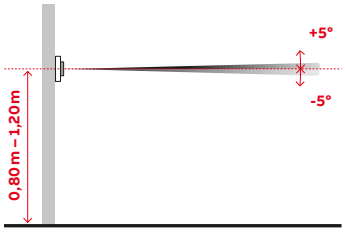
Detection range of select lense

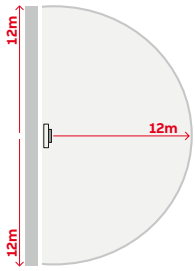
- The horizontal detection level reacts exclusively to persons and not four-footed family members
- Inviting and individual light conditions that can be personalized in the corridor area with dimming function
- Reduction of energy consuption due to automatic switch-on and switch-off

Movement detector

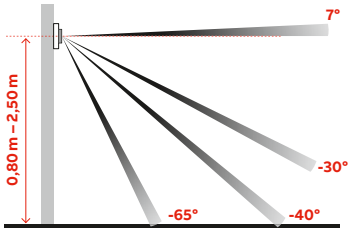
What kinds of detection are available?

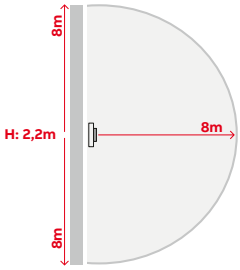
The Busch-Watchdog 180 flex is available with two detection lenses. The **select lens** is suitable for corridors or rooms such as tea kitchens where horizontal detection is sufficient or desired, for example, because of pets. It is usually mounted at switch height.

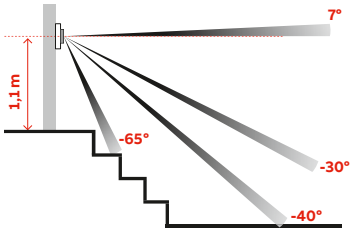


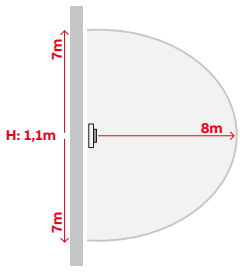


The **multi-lens** offers further areas of application thanks to its four detection levels. For example, this lens can also be used in stairwells. Mounted in the hallway area at 2.2 m, this lens is even better protected from damage and vandalism.









Versatile combination possibilities!



Busch-Watchdog 180 flex, basic sensor with select lens
Article no.: 64761-xxx



Busch-Watchdog 180 flex, basic sensor with select lens
Article no.: 64762-xxx



Busch-Watchdog 180 flex, multi sensor
Article no.: 64764-xxx



Relay insert flex, 1gang
Nominal power: 300 W (LEDi)
Article no.: 64811 U-500



Relay insert flex, 2gang
Nominal power: 2x300 W (LEDi)
Article no.: 64821 U-500



LED dimmer insert flex, 1gang
Nominal power: 3-240 W/VA (LEDi)
Article no.: 64851 U-500



e-contact insert flex, 1gang
Nominal power: 3-240 W/VA (LEDi)
Article no.: 64814 U-500

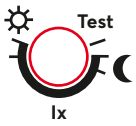


Extension unit insert flex
Article no.: 64891 U-500

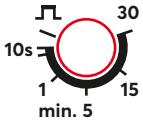
Movement detector

Reliable and uninterrupted surveillance.

Simple and uniform setting of the desired parameters on all Busch-Watchdog lenses on the rear side using two setting potentiometers.

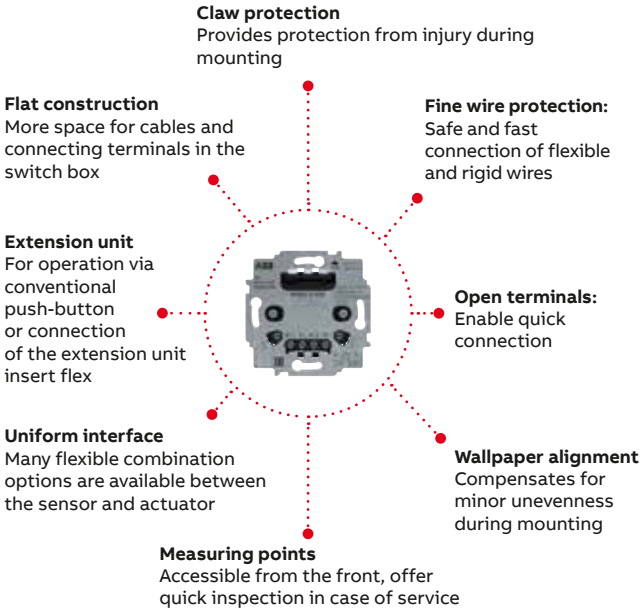


Switching threshold or test mode



Switch-off delay or pulse operation

In addition to the increased selection of combinable inserts, these inserts have been technically further developed and offer many new features for reliable and installation-friendly use.



How flexible should YOUR home be?

The new Busch-Watchdog 180 flex movement detectors combine design, detection quality and flexibility in use. The 180-degree lenses provide perfect detection for different applications. The construction size of the new Busch-Watchdog is compact and flat. As a result, the movement detectors blend in with the general appearance more discreetly.



Busch-Watchdog 180 flex, basic sensor



Busch-Watchdog 180 flex, comfort sensor



Busch-Watchdog 180 flex, multi sensor

The **comfort and multi sensors** can also be operated manually above and below the detection lens to switch the light on and off manually if required or to dim it in conjunction with a dimmer. The operation is familiar and intuitive as with a switch/button operation.



Busch-Watchdog 180 flex, comfort sensor



Busch-Watchdog 180 flex, multi sensor

Movement detector

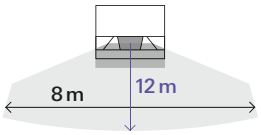
Busch-Watchdog surface-mounted.

Overview of Busch-Watchdog, surface-mounted, detection zones

Busch-Watchdog 70 MasterLINE
6854 AGM-...-500

Busch-Watchdog 110 MasterLINE
6855 AGM-...-500

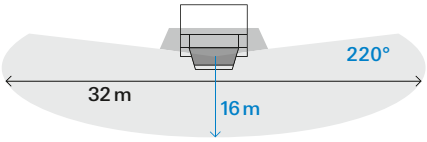
Busch-Watchdog 90 ProfessionalLINE
6853 AGM-...-500



Busch-Watchdog 220 MasterLINE
6847/11 AGM-...-500

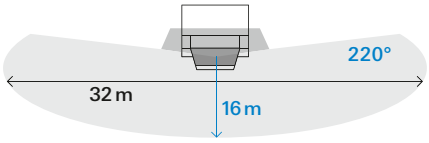
Busch-Watchdog 220 WaveLINE
6847 AGM-...-500

Busch-Watchdog 220 ProfessionalLINE
6845/11 AGM-...-500

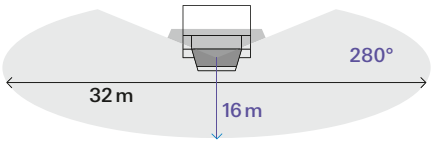


Busch-Watchdog 220 MasterLINE KNX
6179/01-...-500

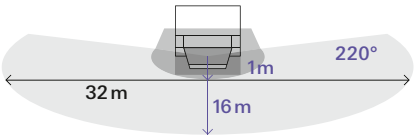
Busch-Watchdog 220 MasterLINE KNX premium
6179/02-...-500



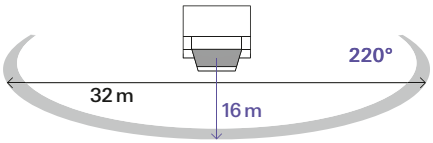
Busch-Watchdog 280 MasterLINE
6867 AGM-...-500



Busch-Watchdog 220 MasterLINE premium.
6848 AGM-...-500



Busch-Watchdog 220 MasterLINE select.
6847 AGS-204-500



Overview Busch-Watchdog serface-mounted


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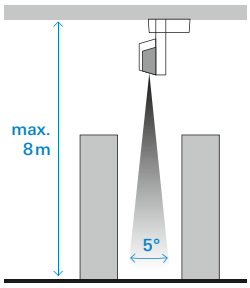

10

01 Busch-Watchdog 70 and 110 MasterLINE, white
02 Busch-Watchdog 70 and 110 MasterLINE, anthracite
03 Busch-Watchdog 70 and 110 MasterLINE, brown
04 Busch-Watchdog 70 and 110 MasterLINE, silver metallic
05 Busch-Watchdog 220 and 280 MasterLINE, white
06 Busch-Watchdog 220 and 280 MasterLINE, anthracite
07 Busch-Watchdog 220 and 280 MasterLINE, brown
08 Busch-Watchdog 220 MasterLINE, silver metallic, incl. IR remote control
09 Busch-Watchdog 220 MasterLINE, white, lens anthracite
10 Busch-Watchdog 90 and 220 ProfessionalLINE

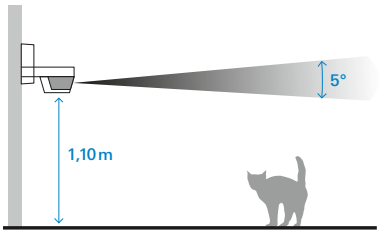
Movement detector

The angle is what matters. Mounting and detection ranges.

Busch-Watchdog 220 MasterLINE select

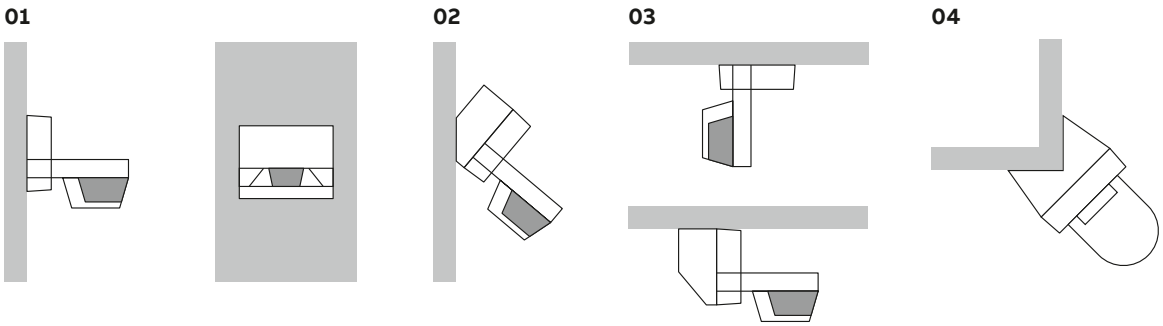


Precise surveillance.
Aside from horizontal mounting, which is ideally suited for the surveillance of houses, properties and parking areas, also vertical mounting is possible. This also allows warehouse thoroughfares on large industrial sites to be monitored so precisely that areas are illuminated only when being approached.



Sees everything. Except small animals.
Practical for the surveillance of outdoor areas: At a mounting height of 1.10 m with a horizontal alignment small animals are not detected by the Busch-Watchdog 220 MasterLINE select.

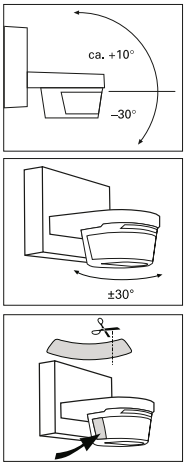
Mounting possibilities

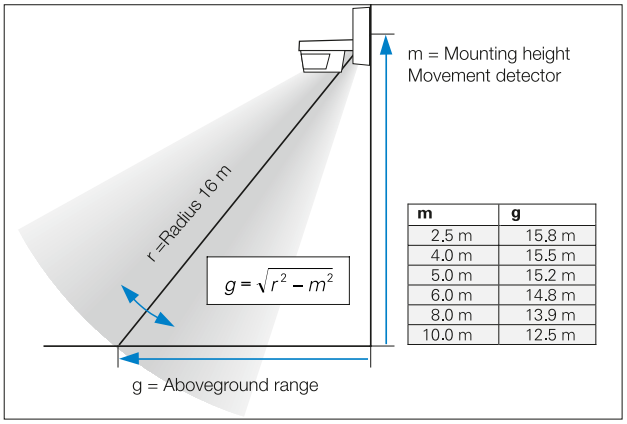


01 Wall mounting
02 Wall mounting with gradient
03 Ceiling mounting with and without corner adapter
04 Corner mounting (using the corner adapter) Busch-Watchdog 280 MasterLINE

Setting the transmission range

- Regulation of the range due to turning, switching, or partially covering
- The optimum mounting height is 2.50 m.
- Automatic range stabilisation for the Busch-Watchdog 70/110 MasterLINE





m	g
2.5 m	15.8 m
4.0 m	15.5 m
5.0 m	15.2 m
6.0 m	14.8 m
8.0 m	13.9 m
10.0 m	12.5 m

Movement detector

Busch-Presence detectors.

Overview of Busch-Presence detectors.

Presence detectors 230 V

Compact devices for almost every application.



Busch-Presence detector flex sensors

Versatile due to modular construction.



Busch-Watchdog Presence tech BasicLINE

For small offices, toilets, pass-through areas and dedicated applications.



Busch-Presence detectors KNX

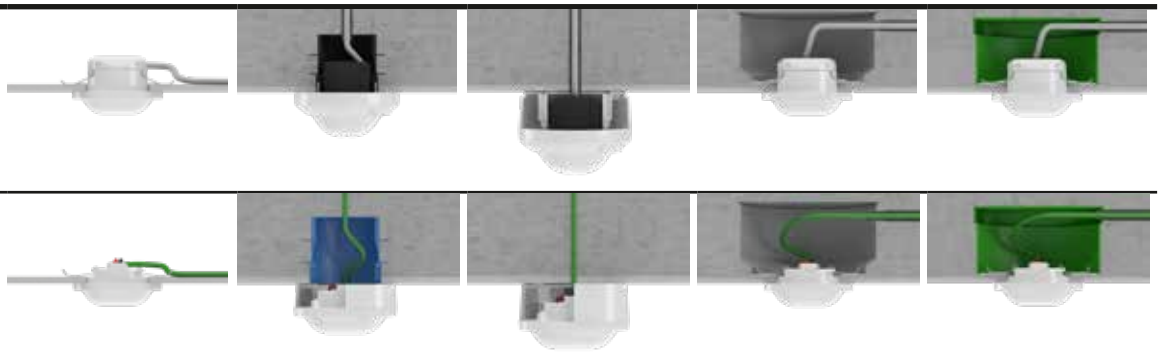
Expertise always works. Almost unnoticed.



Movement detector

Mounting situations. Ideal solutions for all wall types.

The Busch-Presence detectors can, depending on the model, be used for all popular mounting methods. Necessary accessories are to be obtained either from Busch-Jaeger/ABB or corresponding third-party suppliers.



	Mounting situation	Suspended ceiling	Flush-mounted installation box VDE	Surface mounted	In-situ concrete	Precast concrete slabs
	Notes	Ø 68 mm drill hole diameter			Mounting via special concrete installation boxes	Mounting via special concrete installation boxes
	Necessary accessories		KNX: Intermediate ring 6131/38	Surface-mounting box 6883-...-500 or Surface-mounting box 6888 KNX: Surface-mounting box 6131/39	E.g. Kaiser HaloX®-O housing: 1290-40 with fron part 1281-01 or 1281-61	E.g. Kaiser HaloX-P housing with mineral fibre plate 1291-22
	Busch-Watchdog Presence tech BasicLINE mini	X	–	–	X	–
	Busch-Watchdog Presence tech BasicLINE	X	X	–	X	X
	Busch-Watchdog Presence tech BasicLINE Corridor	X	X	X	X	X
	Busch-Presence detector flex sensors	–	X	X	X	X
	Busch-Presence detectors 230 V	X	–	–	X	X
	Busch-Presence detector KNX	X	X	X	X	X
	Busch-Presence detector mini KNX	X	X	X	X	X
	Busch-Presence detector Corridor KNX	X	X	X	X	X
	Busch-Watchdog Sky, KNX	X	X	X	X	X

Movement detector

ABB Watchdog Remote control.

The new generation of ABB presence detectors with integrated Bluetooth interface can be remotely controlled and parameterised via a smartphone or tablet APP.
For example the following functions are adjustable:
NOTE: The Busch-Presence detector flex sensors will be controlled by the Busch- free@home app.

—
01 Selection of the presence detector to be controlled, via the device list with field strength display and fast identification push button.
—
02 Direct switching and dimming of the connected load
—
03 Energy monitor (rough overview of energy cost with / without presence detectors)
—
04 Sensitivity of sensors
—
05 test mode

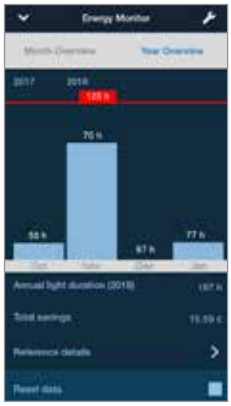


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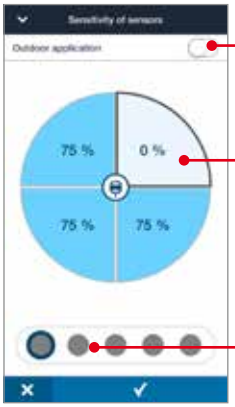




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03



Outdoor mounting, e.g. under canopy

4 PIR sensors in 4 quadrants with different sensitivities

Set sensitivity

—
04



—
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—
06 Activation of presence simulation (if you are not at home) / basic brightness and nightlight
—
07 Set device (Bluetooth) name and device parameters
—
08 Release specific functions to user



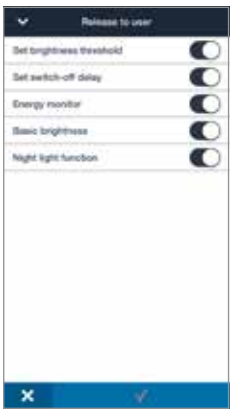


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Movement detector

Busch-Watchdog, surface-mounted

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 70 MasterLINE [1])** Electronic movement detector for detecting thermal motion. With display for detection and operation mode. With ground surveillance. With high-quality lens for optimum detection. Adjustment of detection range via rotary control element. Surveillance density: 25 sectors with 100 switching segments. With integrated dismantling protection. With brightness-independent test mode for evaluating the detection zone. Additional possibility for switch-on via normally open push-button switch. Switch-off delay option: 1 / 3 or 5 min. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: ohmic, capacitive and inductive loads Rated current: 6 AX, cos ϕ 0.6 Rated power: 1380 W/VA Detection range: frontal: 12 m, lateral: 4 m Brightness limit value: 3 Lux Up to daytime operation Mounting height: 2.5 m Protection class (Device): IP 55 Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 100 mm x 125 mm x 33 mm 		
brown	**6854 AGM-201-500**	2CKA006800A2549	1
white	**6854 AGM-204-500**	2CKA006800A2546	1/10
silver metallic	**6854 AGM-208-500**	2CKA006800A2547	1
anthracite	**6854 AGM-35-500**	2CKA006800A2548	1

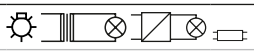
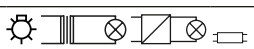
[1]) In combination with a relay/contactor, an RC suppressor 6899 has to be used.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 110 MasterLINE [1])** Electronic movement detector for detecting thermal motion. Remote operation via IR remote control 6841-101. Remote configurable via IR service remote control 6842-101. With display for detection and operation mode. With ground surveillance. With high-quality lens for optimum detection. Detection sensitivity adjustable via IR service remote control. Adjustment of detection range via rotary control element. Surveillance density: 25 sectors with 100 switching segments. With integrated dismantling protection. All functions controlled by microprocessor. Continuous light (4 hours), light deactivation (4 hours) and presence simulation can be activated via IR remote control. Reading in the current brightness value as switching threshold via remote control. With automatic range stabilization. With automatic interference suppression. With automatic dazzle-proofing. With brightness-independent test mode for evaluating the detection zone. Individual adjustment of detection range via enclosed protective foil which can be cut to size. Additional possibility for switch-on via normally open push-button switch. Switch-off delay: 10 sec to 30 min or short-time pulse 1 sec adjustable. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: ohmic, capacitive and inductive loads Rated current: 10 AX, cos ϕ 0.6 Rated power: 2300 W/VA Detection range: frontal: 12 m, lateral: 4 m Brightness limit value: 3 Lux Up to daytime operation Mounting height: 2.5 m Protection class (Device): IP 55 Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 100 mm x 125 mm x 33 mm 		
brown	**6855 AGM-201-500**	2CKA006800A2614	1
white	**6855 AGM-204-500**	2CKA006800A2611	1
silver metallic	**6855 AGM-208-500**	2CKA006800A2612	1
anthracite	**6855 AGM-35-500**	2CKA006800A2613	1

[1]) In combination with a relay/contactor, an RC suppressor 6899 has to be used.

Movement detector

Busch-Watchdog, surface-mounted

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 220 MasterLINE [1])** Electronic movement detector for detecting thermal motion. Remote operation via IR remote control 6841-101. Remote configurable via IR service remote control 6842-101. With display for detection and operation mode. With ground and rear-field detection. With high-quality lens for optimum detection. Detection sensitivity adjustable via IR service remote control. Surveillance density: 84 sectors with 336 switching segments. With integrated dismantling protection. All functions controlled by microprocessor. Continuous light (4 hours), light deactivation (4 hours) and presence simulation can be activated via IR remote control. Reading in the current brightness value as switching threshold via remote control. With automatic range stabilization. With automatic interference suppression. With automatic dazzle-proofing. With brightness-independent test mode for evaluating the detection zone. Individual adjustment of detection range via enclosed protective foil which can be cut to size. Additional possibility for switch-on via normally open push-button switch. Switch-off delay: 10 sec to 30 min or short-time pulse 1 sec adjustable. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: ohmic, capacitive and inductive loads Rated current: 16 AX, cos ϕ 0.6 Rated power: 3680 W/VA Detection range: frontal: 16 m, lateral: 16 m Detection angle: 220 ° Brightness limit value: 0.5 Lux - 300 Lux , Daytime operation Mounting height: 2.5 m Protection class (Device): IP 55 Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 115 mm x 125 mm x 141 mm		
			
white	**6847/11AGM-204-500**	2CKA006800A2524	1/10
silver metallic	**6847/11AGM-208-500**	2CKA006800A2525	1
anthracite	**6847/11AGM-35-500**	2CKA006800A2526	1
brown	**6847/11AGM-201-500**	2CKA006800A2527	1
	incl. IR remote control		
			
brown	**6847 AGM-201-500**	2CKA006800A2535	1
white	**6847 AGM-204-500**	2CKA006800A2532	1/10
silver metallic	**6847 AGM-208-500**	2CKA006800A2533	1
anthracite	**6847 AGM-35-500**	2CKA006800A2534	1/10

[1]) In combination with a relay/contactor, an RC suppressor 6899 has to be used.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 220 MasterLINE [1])** **incl. IR remote control** With anthracite-coloured lens. Electronic movement detector for detecting thermal motion. Remote control possible via IR remote control 6841-101 (included in scope of delivery). Remote configurable via IR service remote control 6842-101. With display for detection and operation mode. With ground and rear-field detection. With high-quality lens for optimum detection. Detection sensitivity adjustable via IR service remote control. Surveillance density: 84 sectors with 336 switching segments. With integrated dismantling protection. All functions controlled by microprocessor. Continuous light (4 hours), light deactivation (4 hours) and presence simulation can be activated via IR remote control. Reading in the current brightness value as switching threshold via remote control. With automatic range stabilization. With automatic interference suppression. With automatic dazzle-proofing. With brightness-independent test mode for evaluating the detection zone. Individual adjustment of detection range via enclosed protective foil which can be cut to size. Additional possibility for switch-on via normally open push-button switch. Switch-off delay: 10 sec to 30 min or short-time pulse 1 sec adjustable. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: ohmic, capacitive and inductive loads Rated current: 16 AX, cos ϕ 0.6 Rated power: 3680 W/VA Detection range: frontal: 16 m, lateral: 16 m Detection angle: 220 ° Brightness limit value: 0.5 Lux - 300 Lux , Daytime operation Mounting height: 2.5 m Protection class (Device): IP 55 Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 115 mm x 125 mm x 141 mm 		
white	**6847/8 AGM-204-500**	2CKA006800A2600	1

[1]) In combination with a relay/contactor, an RC suppressor 6899 has to be used.

Movement detector

Busch-Watchdog, surface-mounted

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 220 MasterLINE select [1])** Electronic movement detector for detecting thermal motion. Remote operation via IR remote control 6841-101. Remote configurable via IR service remote control 6842-101. With display for detection and operation mode. With high-quality lens for optimum detection. Detection sensitivity adjustable via IR service remote control. Surveillance density: 28 sectors with 112 switching segments. With integrated dismantling protection. All functions controlled by microprocessor. Continuous light (4 hours), light deactivation (4 hours) and presence simulation can be activated via IR remote control. Reading in the current brightness value as switching threshold via remote control. With automatic range stabilization. With automatic interference suppression. With automatic dazzle-proofing. With brightness-independent test mode for evaluating the detection zone. Individual adjustment of detection range via enclosed protective foil which can be cut to size. Additional possibility for switch-on via normally open push-button switch. Switch-off delay: 10 sec to 30 min or short-time pulse 1 sec adjustable. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: ohmic, capacitive and inductive loads Rated current: 16 AX, cos ϕ 0.6 Rated power: 3680 W/VA Detection range: frontal: 16 m, lateral: 16 m Detection angle: 220 ° Brightness limit value: 0.5 Lux - 300 Lux , Daytime operation Mounting height: 2.5 m - 8 m alternative: 1.1 m Protection class (Device): IP 55 Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 115 mm x 125 mm x 141 mm 		
white	**6847 AGS-204-500**	2CKA006800A2537	1

[1]) In combination with a relay/contactor, an RC suppressor 6899 has to be used.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 220 MasterLINE premium [1]) [2])** **incl. IR remote control** Electronic movement detector for detecting thermal motion. Two switching outputs (one floating/one non-floating) With 2-zone detection and 2 separate switching outputs. With connectable, movement-independent twilight switching operation. Remote control possible via IR remote control 6841-101 (included in scope of delivery). Remote configurable via IR service remote control 6842-101. With display for detection and operation mode. With ground and rear-field detection. With high-quality lens for optimum detection. Detection sensitivity adjustable via IR service remote control. Surveillance density: 91 sectors with 364 switching segments. With integrated dismantling protection. All functions controlled by microprocessor. Continuous light (4 hours), light deactivation (4 hours) and presence simulation can be activated via IR remote control. Reading in the current brightness value as switching threshold via remote control. With automatic range stabilization. With automatic interference suppression. With automatic dazzle-proofing. With brightness-independent test mode for evaluating the detection zone. Individual adjustment of detection range via enclosed protective foil which can be cut to size. Additional possibility for switch-on via normally open push-button switch. Switch-off delay: 10 sec to 30 min or short-time pulse 1 sec adjustable. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: ohmic, capacitive and inductive loads Rated current: 10 AX, cos ϕ 0.6 Rated power: 2300 W/VA Control/Signal outputs: 1, Normally open contact, potential free Rated power: 0.12 - 2300 W/VA Detection range: frontal: 16 m, lateral: 16 m Detection range 2: frontal: 1 m, lateral: 1 m Detection angle: 220 ° Brightness limit value: 0.5 Lux - 300 Lux , Daytime operation Mounting height: 2.5 m Protection class (Device): IP 55 Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 115 mm x 125 mm x 141 mm 		
brown	**6848 AGM-201-500**	2CKA006800A2581	1
white	**6848 AGM-204-500**	2CKA006800A2578	1
silver metallic	**6848 AGM-208-500**	2CKA006800A2579	1
anthracite	**6848 AGM-35-500**	2CKA006800A2580	1

[1]) In combination with a relay/contactor, an RC suppressor 6899 has to be used.
[2]) For the activation of additional functions (twilight switch/floating/2-zone operation), the IR service remote control 6842-101 is required.

Movement detector

Busch-Watchdog, surface-mounted

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 280 MasterLINE [1])** **incl. IR remote control** Electronic movement detector for detecting thermal motion. Remote control possible via IR remote control 6841-101 (included in scope of delivery). Remote configurable via IR service remote control 6842-101. With display for detection and operation mode. With ground and rear-field detection. With high-quality lens for optimum detection. Detection sensitivity adjustable via IR service remote control. Surveillance density: 110 sectors with 440 switching segments. With integrated dismantling protection. All functions controlled by microprocessor. Always-On (4 hours) and Presencesimulation can be activated via IR-remote control. Reading in the current brightness value as switching threshold via remote control. With automatic range stabilization. With automatic interference suppression. With automatic dazzle-proofing. With brightness-independent test mode for evaluating the detection zone. Individual adjustment of detection range via enclosed protective foil which can be cut to size. Additional possibility for switch-on via normally open push-button switch. Switch-off delay: 10 sec to 30 min or short-time pulse 1 sec adjustable. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: ohmic, capacitive and inductive loads Rated current: 16 AX, cos ϕ 0.6 Rated power: 3680 W/VA Detection range: frontal: 16 m, lateral: 16 m Detection angle: 280 ° Brightness limit value: 0.5 Lux - 300 Lux , Daytime operation Mounting height: 2.5 m Protection class (Device): IP 55 Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 115 mm x 125 mm x 141 mm 		
brown	**6867 AGM-201-500**	2CKA006800A2557	1
white	**6867 AGM-204-500**	2CKA006800A2554	1/10
silver metallic	**6867 AGM-208-500**	2CKA006800A2555	1
anthracite	**6867 AGM-35-500**	2CKA006800A2556	1

[1]) In combination with a relay/contactor, an RC suppressor 6899 has to be used.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 90 ProfessionalLINE [1])** Electronic movement detector for detecting thermal motion. With display for detection and operation mode. With ground and rear-field detection. With planar compensation: +/- 30°. With high-quality lens for optimum detection. Surveillance density: 50 sectors with 200 switching segments. With brightness-independent test mode for evaluating the detection zone. Additional possibility for switch-on via normally open push-button switch. Switch-off delay option: 1 / 3 or 5 min. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: ohmic, capacitive and inductive loads Rated current: 16 AX, cos ϕ 0.6 Rated power: 3680 W/VA Detection range: frontal: 12 m, lateral: 6 m Detection angle: 90 ° Brightness limit value: 3 Lux / 15 lux / daytime operation Mounting height: 2.5 m Protection class (Device): IP 55 Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 102 mm x 97 mm x 159 mm 		
brown	**6853 AGM-201**	2CKA006800A2318	1
alpine white	**6853 AGM-204-500**	2CKA006800A2321	1/10
anthracite	**6853 AGM-35-500**	2CKA006800A2322	1

[1]) In combination with a relay/contactor, an RC suppressor 6899 has to be used.

Movement detector

Busch-Watchdog, surface-mounted

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 220 ProfessionalLINE [1] without IR remote control** Electronic movement detector for detecting thermal motion. With display for detection and operation mode. With ground and rear-field detection. With planar compensation: +/- 30°. With high-quality lens for optimum detection. Detection sensitivity selectable in 3 steps. Surveillance density: 84 sectors with 336 switching segments. All functions controlled by microprocessor. Always-On (4 hours) and Presencesimulation can be activated via IR-remote control. With automatic range stabilization. With automatic interference suppression. With automatic dazzle-proofing. With brightness-independent test mode for evaluating the detection zone. Additional possibility for switch-on via normally open push-button switch. Switch-off delay: 10 sec to 30 min or short-time pulse 1 sec adjustable. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: ohmic, capacitive and inductive loads Rated current: 16 AX, cos ϕ 0.6 Rated power: 3680 W/VA Detection range: frontal: 16 m, lateral: 16 m Detection angle: 220 ° Brightness limit value: 0.5 Lux - 300 Lux , Daytime operation Mounting height: 2.5 m Protection class (Device): IP 55 Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 102 mm x 97 mm x 159 mm 		
alpine white	**6845/11AGM-204-500**	2CKA006800A2334	1/10
brown	**6845/11AGM-201-500**	2CKA006800A2335	1
anthracite	**6845/11 AGM-35-500**	2CKA006800A2336	1

[1] In combination with a relay/contactor, an RC suppressor 6899 has to be used.

Product	Article-No.	Order-No.	Pack/Qty
	**WaveLINE switch actuator, 1gang, with extension unit [1]** For wireless switching of electrical loads. Functions via radio control: ON/OFF, timer and light scene control. Functions via the extension unit: ON/OFF, timer and sending a radio control telegram. Operation also possible via conventional push-buttons (2020 US, 2012/6 UK). Actuation of the extension unit (via conventional push-button) causes the output to switch and a radio control telegram to be sent. Actuation of extension unit in ON/OFF function: Alternate sending of an ON/OFF telegram. Actuation of extension unit in timer function: Sending of an ON telegram. For Busch-Watchdog WaveLINE. For wall mounted transmitter Waveline 6731-xxx, 6732-xxx und 6733-xxx. For remote control WaveLINE 6780. Switch-off delay: Adjustable to 5 seconds, 1-5-15 minutes. Repeater function can be activated for extended range. For universal attachment or installation. 3 wire connection (neutral conductor required). For installation in (deep) flush-mounted boxes to German Standard DIN 49073. Controllable up to 32 transmission addresses. Send/receive frequency: 868 MHz. Free-field range: approx. 100 m. Control element: Adjustable potentiometer Display elements: Status indication of output via LED. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 1 Polling voltage: 230 V~, Sensing pulse, L-wire Outputs: 1x Normally open contact, potential-bound Suitable for: Resistive load Rated current: 10 A Output voltage: 230 V~ Rated power: 2300 W Suitable for: capacitive Rated current: 10 AX Output voltage: 230 V~ Rated power: 2300 VA Suitable for: inductive Rated current: 10 A, cos ϕ 0.6 Output voltage: 230 V~ Rated power: 2300 VA Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 47 mm x 48 mm x 22 mm Mounting depth: 25 mm 		
studio white	**6701-101-500**	2CKA006700A0040	1/10

[1] For further information please check the current Online-Catalogue.

Movement detector

Busch-Watchdog, surface-mounted

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog Presence tech BasicLINE [1])** Electronic movement detector for detecting thermal motion. With ground surveillance. Continuously variable detection sensitivity. Additional possibility for switch-on via normally open push-button switch. Switch-off delay: 1 to 10 min., adjustable. With brightness-independent test mode for evaluating the detection zone. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V- LEDi, typical. Rated power: 300 W Suitable for: 230 V incandescent lamps Rated power: 2000 W Suitable for: 230 V halogen lamps Rated power: 2000 W Detection range: frontal: 12 m, lateral: 12 m Detection angle: 240 ° Brightness limit value: 10 Lux - 200 Lux , Daytime operation Mounting height: 2.5 m Protection class (Device): IP 55 Temperature range (Device): -20 °C to 40 °C Dimensions: (L x W x D): 95 mm x 76 mm x 118 mm 		
alpine white	**6844 AGM-204-500**	2CKA006800A2507	1

[1]) In combination with a relay/contactor, an RC suppressor 6899 has to be used.

Product	Article-No.	Order-No.	Pack/Qty
	**Ceiling/corner adapter** For Busch-Watchdog 220 MasterLINE. For Busch-Watchdog 220 MasterLINE select. For Busch-Watchdog 220 MasterLINE premium. For Busch-Watchdog 280 MasterLINE. For Busch-Watchdog 220 MasterLINE KNX. For Busch-Watchdog 220 MasterLINE KNX premium. For detection on two sides of the house, in combination with Busch-Watchdog 280. For ceiling mounting of the Busch-Watchdog. To increase the inclination of the Busch-Watchdog 220/280. It is mounted at the corner of the house, on the wall or under the ceiling. For flush or surface wiring. Mounting height: 2.5 m Dimensions: (L x W x D): 102 mm x 125 mm x 55 mm		
brown	**6868-201-500**	2CKA006800A2565	1
white	**6868-204-500**	2CKA006800A2562	1
silver metallic	**6868-208-500**	2CKA006800A2563	1
anthracite	**6868-35-500**	2CKA006800A2564	1

Product	Article-No.	Order-No.	Pack/Qty
	**IR remote control [1])** For Busch-Watchdog 110 MasterLINE. For Busch-Watchdog 220 MasterLINE. For Busch-Watchdog 220 MasterLINE select. For Busch-Watchdog 220 MasterLINE premium. For Busch-Watchdog 280 MasterLINE. The following functions can be activated: Activating/deactivating light ON for 4 hours. Activating/deactivating light for 4 hours. Activating/deactivating presence simulation. Setting / resetting current brightness value as limit value to device settings. With coded transmission signal. Power supply: lithium button cell battery Type CR2025. Battery life: typically 2 years. Rated voltage: 3 V- Protection class (Device): IP 40 Temperature range (Device): 0 °C to 45 °C Dimensions: (L x W x D): 86 mm x 40 mm x 7 mm		
	6841-101-500	2CKA006800A2585	1

[1]) Battery included in delivery.

Product	Article-No.	Order-No.	Pack/Qty
	**IR service remote control [1])** For Busch-Watchdog 110 MasterLINE. For Busch-Watchdog 220 MasterLINE. For Busch-Watchdog 220 MasterLINE select. For Busch-Watchdog 220 MasterLINE premium. For Busch-Watchdog 280 MasterLINE. The following functions/settings can be activated depending on device type: Activating/deactivating light ON for 4 hours. Activating/deactivating light for 4 hours. Activating/deactivating presence simulation. Setting / resetting current brightness value as limit value to device settings. Activating/deactivating test mode. Calling up settings stored in the remote control. Reset to factory default settings. Activate/deactivate dynamic forced switch-off. Activating/deactivating 2-zone operation. Activating/deactivating synchronous mode. Activating/deactivating twilight switch operation. Setting of switch-off delay or short-time pulse. Setting of the brightness limit value. Adjusting the sensitivity. With coded transmission signal. Power supply: lithium button cell battery Type CR2025. Battery life: typically 2 years. Rated voltage: 3 V- Protection class (Device): IP 40 Temperature range (Device): 0 °C to 45 °C Dimensions: (L x W x D): 125 mm x 56 mm x 10 mm		
	6842-101-500	2CKA006800A2583	1

[1]) Battery included in delivery.

Movement detector

Presence detector

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog Presence tech BasicLINE mini [1] [2]** For switching lighting systems that depend on brightness and movement. Detection range (installation height 3m, up to 6m in diameter). Low mounting height due to separate sensor/actuator concept. Continuously variable detection sensitivity. With brightness-independent test mode for evaluating the detection zone. With detection display in test mode. Ceiling installation using integrated spring bracket. Surveillance density: 19 sectors with 76 switching segments. Switch-off delay: approx. 1 sec - 15 min or short-time pulse adjustable. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V incandescent lamps Rated power: 2000 W Suitable for: Energy-saving bulbs Rated power: 7 - 400 W Suitable for: Fluorescent lamps Rated current: 4 AX, cos ϕ 0.5 Rated power: 1000 W/VA Detection angle: 360 ° Brightness limit value: 10 Lux - 1000 Lux , Daytime operation Mounting height: 2 m - 5 m Protection class (Device): IP 20 Protection class (Sensor): IP 40 Temperature range (Device): 0 °C to 45 °C Mounting depth: 77 mmIEC 60669-2-1 		
alpine white	**6811 EB-500**	2CKA006800A2517	1

[1] When mounting the actuator through the drilled hole of the sensor an installation depth of ≥ 205 mm is to be taken into account.
[2] In combination with a relay/contactor, an RC suppressor 6899 has to be used.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog Presence tech BasicLINE [1] [2]** For switching lighting systems that depend on brightness and movement. Detection range (for installation height of 3 m), circular, up to 8 m in diameter. For semiautomatic and fully automatic operation. Additional activation/deactivation possibility through pushbutton input. Adaptation of the detection range possible using the included masking elements. With brightness-independent test mode for evaluating the detection zone. With detection display in test mode. Mounting possibility in combination with built-in installation boxes and device sockets. Ceiling installation using integrated spring bracket. Adjustment elements accessible on the front side. Low mounting height (31 mm) Surveillance density: 32 sectors with 128 switching segments. Switch-off delay: approx. 5 sec - 30 min or short-time pulse adjustable. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V incandescent lamps Rated power: 2000 W Suitable for: Energy-saving bulbs Rated power: 7 - 400 W Suitable for: Fluorescent lamps Rated current: 4 AX, cos ϕ 0.5 Rated power: 1000 W/VA Detection angle: 360 ° Brightness limit value: 10 Lux - 2000 Lux Mounting height: 2 m - 4 m Protection class (Device): IP 40 Temperature range (Device): 0 °C to 45 °C Dimensions: (L x W x D): 111 mm x 111 mm x 59 mm Mounting depth: 41 mm60669-2-1 		
alpine white	**6814 U-500**	2CKA006800A2518	1/24

[1] The detection range with a central approach is reduced.
[2] In combination with a relay/contactor, an RC suppressor 6899 has to be used.

Movement detector

Presence detector

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog Presence tech BasicLINE Corridor [1] [2] [3]** For switching lighting systems that depend on brightness and movement. Detection range (for installation height of 2.5 m, circular, up to 24 m in diameter). Additional activation/deactivation possibility through pushbutton input. Adaptation of the detection range possible using the included masking elements. With brightness-independent test mode for evaluating the detection zone. With detection display in test mode. With automatic motion detection. With automatic sensitivity adaptation. Mounting possibility in combination with built-in installation boxes and device sockets. Ceiling installation using included dust protection socket. Adjustment elements accessible on the front side. Surveillance density: 215 sectors with 860 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse adjustable. Remote control possible via IR service remote control 6843. Use outdoors possible due to combination with surface-mounted housing 6888. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V incandescent lamps Rated power: 2000 W Suitable for: Energy-saving bulbs Rated power: 7 - 400 W Suitable for: Fluorescent lamps Rated current: 4 AX, cos ϕ 0.5 Rated power: 1000 W/VA Detection angle: 360 ° Brightness limit value: 10 Lux - 2000 Lux Mounting height: 2 m - 3 m Protection class (Device): IP 40 Temperature range (Device): -20 °C to 45 °C Dimensions: (L x W x D): 110 mm x 110 mm x 70 mm Mounting depth: 48 mmIEC 60669-2-1 		
alpine white	**6818 U-500**	2CKA006800A2519	1/18

[1] The maximum detection range depends on the mounting site and ambient conditions.
[2] The detection range with a central approach is reduced.
[3] In combination with a relay/contactor, an RC suppressor 6899 has to be used.

Product	Article-No.	Order-No.	Pack/Qty
	**Surface-mounting box** For Busch-Watchdog Presence tech BasicLINE Corridor 6818 U. For surface mounting and increase of the protection type. Protection class (Device): IP 54 Temperature range (Device): -20 °C to 45 °C Dimensions: (L x W x D): 106 mm x 106 mm x 26 mm		
alpine white	**6888**	2CKA006899A2305	1/90

Product	Article-No.	Order-No.	Pack/Qty
	Protective basket For Busch-Presence detector sensors 6813- to -102. For Busch-Watchdog Presence tech BasicLINE 6814 U. For Busch-Watchdog Presence tech BasicLINE Corridor 6818 U. For all Busch-Smoke alarm detectors ProfessionalLINE. For all Busch-Heat alarm detectors ProfessionalLINE. Busch-Smoke alarm detector 6831-84 and 6832-84. For Busch-Presence detector mini KNX 6131/20-xxx and 6131/21-xxx. For Busch-Presence detector KNX 6131/30-xxx and 6131/31-xxx. For Busch-Watchdog Sky KNX 6131/40-24. For Busch-Presence detector Corridor KNX 6131/50-xxx and 6131/51-xxx.		
alpine white	**6898**	2CKA006899A2304	1/12

	**IR service remote control [1]** For Busch-Watchdog Presence tech BasicLINE Corridor 6818 U. The following functions/settings can be implemented. Continuous light on/off (8 h). Setting of the brightness limit value. Setting of the current ambient light value as the brightness limit value. Setting of switch-off delay or short-time pulse. Saving and duplication of the saved values. Activate test mode. Reset to factory default settings. Activation/deactivation of the button lock. Power supply: lithium button cell battery Type CR2032. Range: frontal 3 m. Battery included in delivery.		
	6843	2CKA006800A2511	1/120

[1] Battery included in delivery.

Movement detector

Presence detector

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Presence detector Compact, relay [1] [2] [3]** **8 metres** Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement. With power relays for LED operation. Detection range (for installation height of 3 m): circular Seated persons: up to Ø 6.5 m, walking persons: up to Ø 8 m. Extension of the detection range by means of master/slave combination. Visible height 23 mm. For semiautomatic and fully automatic operation. Additional activation/deactivation possibility through pushbutton input. With continuous light/continuous off function (8 hours), activation via intelligent extension unit input possible. With brightness-independent test mode for evaluating the detection zone. With teach-in function of the brightness switching threshold, IR service remote control required. With detection display in test mode. Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Adjustment elements accessible on the front side. Surveillance density: 48 sectors with 496 switching segments. Switch-off delay: approx. 1 min. - 30 min. or short-time pulse adjustable. Remote control possible via IR service remote control 6843. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Display elements: LED detection and status indication. Rated voltage: 110 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V incandescent lamps Rated power: 2300 W Suitable for: 230 V~ LEDi Rated power: 200 W/VA Suitable for: Fluorescent lamps Rated current: 10 AX, cos ϕ 0.9 Detection angle: 360 ° Brightness limit value: 5 Lux - 2000 Lux Mounting height: 2 m - 4 m Protection class (Device): IP 40 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 94 mm x 94 mm x 72 mm Mounting depth: 49 mm60669-2-1		
studio white matt	**6819/60-24-500**	2CKA006800A2733	1
aluminium silver	**6819/60-183-500**	2CKA006800A2767	1

[1] The detection range with a central approach is reduced.
[2] In combination with a relay/contactor, an RC suppressor 6899 has to be used.
[3] Recommendation: HaloX-O flush-mounted box from Kaiser (article no. 1290-40) with corresponding cover (1290-47 or 1290-85 for exposed concrete) or IBTronic H120-68 from Spelsberg

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Presence detector Universal, relay [1] [2] [3]** **12 meters** Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement. With power relays for LED operation. Detection range (for installation height of 3 m): circular Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m. Extension of the detection range by means of master/slave combination. Visible height 23 mm. For semiautomatic and fully automatic operation. Additional activation/deactivation possibility through pushbutton input. With continuous light/continuous off function (8 hours), activation via intelligent extension unit input possible. With brightness-independent test mode for evaluating the detection zone. With teach-in function of the brightness switching threshold, IR service remote control required. With detection display in test mode. Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Adjustment elements accessible on the front side. Surveillance density: 72 sectors with 640 switching segments. Switch-off delay: approx. 1 min. - 30 min. or short-time pulse adjustable. Remote control possible via IR service remote control 6843. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Display elements: LED detection and status indication. Rated voltage: 110 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V incandescent lamps Rated power: 2300 W Suitable for: 230 V~ LEDi Rated power: 200 W/VA Suitable for: Fluorescent lamps Rated current: 10 AX, cos ϕ 0.9 Detection angle: 360 ° Brightness limit value: 5 Lux - 2000 Lux Mounting height: 2 m - 4 m Protection class (Device): IP 40 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 94 mm x 94 mm x 72 mm Mounting depth: 49 mm60669-2-1		
studio white matt	**6819/30-24-500**	2CKA006800A2735	1
aluminium silver	**6819/30-183-500**	2CKA006800A2769	1

[1] The detection range with a central approach is reduced.
[2] In combination with a relay/contactor, an RC suppressor 6899 has to be used.
[3] Recommendation: HaloX-O flush-mounted box from Kaiser (article no. 1290-40) with corresponding cover (1290-47 or 1290-85 for exposed concrete) or IBTronic H120-68 from Spelsberg

Movement detector

Presence detector

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Presence detector Compact, e-contact [1] [2]** **8 metres** Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement. With electronic switch contact for LED operation. Detection range (for installation height of 3 m): circular Seated persons: up to Ø 6.5 m, walking persons: up to Ø 8 m. Extension of the detection range by means of master/ slave combination. Visible height 23 mm. For semiautomatic and fully automatic operation. Additional activation/deactivation possibility through pushbutton input. With continuous light/continuous off function (8 hours), activation via intelligent extension unit input possible. With brightness-independent test mode for evaluating the detection zone. With teach-in function of the brightness switching threshold, IR service remote control required. With detection display in test mode. Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Adjustment elements accessible on the front side. Surveillance density: 48 sectors with 496 switching segments. Switch-off delay: approx. 1 min. - 30 min. or short-time pulse adjustable. Remote control possible via IR service remote control 6843. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Display elements: LED detection and status indication. Rated voltage: 110 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V incandescent lamps Rated power: 3 - 200 W Suitable for: 230 V~ LEDi Rated power: 3 - 200 W/VA Detection angle: 360 ° Brightness limit value: 5 Lux - 2000 Lux Mounting height: 2 m - 4 m Protection class (Device): IP 40 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 94 mm x 94 mm x 59 mm Mounting depth: 36 mm60669-2-1		
studio white matt	**6817/62-24-500**	2CKA006800A2737	1
aluminium silver	**6817/62-183-500**	2CKA006800A2771	1

[1] The detection range with a central approach is reduced.
[2] Recommendation: HaloX-O flush-mounted box from Kaiser (article no. 1290-40) with corresponding cover (1290-47 or 1290-85 for exposed concrete) or IBTronic H120-68 from Spelsberg

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Presence detector Universal, e-contact [1] [2]** **12 meters** Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement. With electronic switch contact for LED operation. Detection range (for installation height of 3 m): circular Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m. Extension of the detection range by means of master/ slave combination. Visible height 23 mm. For semiautomatic and fully automatic operation. Additional activation/deactivation possibility through pushbutton input. With continuous light/continuous off function (8 hours), activation via intelligent extension unit input possible. With brightness-independent test mode for evaluating the detection zone. With teach-in function of the brightness switching threshold, IR service remote control required. With detection display in test mode. Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Adjustment elements accessible on the front side. Surveillance density: 72 sectors with 640 switching segments. Switch-off delay: approx. 1 min. - 30 min. or short-time pulse adjustable. Remote control possible via IR service remote control 6843. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Display elements: LED detection and status indication. Rated voltage: 110 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V incandescent lamps Rated power: 3 - 200 W Suitable for: 230 V~ LEDi Rated power: 3 - 200 W/VA Detection angle: 360 ° Brightness limit value: 5 Lux - 2000 Lux Mounting height: 2 m - 4 m Protection class (Device): IP 40 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 94 mm x 94 mm x 59 mm Mounting depth: 36 mm60669-2-1		
studio white matt	**6817/32-24-500**	2CKA006800A2739	1
aluminium silver	**6817/32-183-500**	2CKA006800A2773	1

[1] The detection range with a central approach is reduced.
[2] Recommendation: HaloX-O flush-mounted box from Kaiser (article no. 1290-40) with corresponding cover (1290-47 or 1290-85 for exposed concrete) or IBTronic H120-68 from Spelsberg

Movement detector

Presence detector

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Presence detector Corridor, relay [1] [2]** **24 meters** Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement. With power relays for LED operation. Detection range (for installation height of 3 m): rectangular Walking persons: crosswise to the detector 24 m x 3 m, frontal/lengthways to the detector 14 m x 3 m. Extension of the detection range by means of master/slave combination. Mounting height 27 mm. For semiautomatic and fully automatic operation. Additional activation/deactivation possibility through pushbutton input. With continuous light/continuous off function (8 hours), activation via intelligent extension unit input possible. With brightness-independent test mode for evaluating the detection zone. With teach-in function of the brightness switching threshold, IR service remote control required. With detection display in test mode. Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Adjustment elements accessible on the front side. Surveillance density: 92 sectors with 368 switching segments Switch-off delay: approx. 1 min. - 30 min. or short-time pulse adjustable. Remote control possible via IR service remote control 6843. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Display elements: LED detection and status indication. Rated voltage: 110 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V incandescent lamps Rated power: 2300 W Suitable for: 230 V~ LEDi Rated power: 200 W/VA Suitable for: Fluorescent lamps Rated current: 10 AX, cos ϕ 0.9 Detection angle: 360 ° Brightness limit value: 5 Lux - 2000 Lux Mounting height: 2 m - 4 m Protection class (Device): IP 40 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 94 mm x 94 mm x 76 mm Mounting depth: 49 mm60669-2-1		
studio white matt	**6819/50-24-500**	2CKA006800A2797	1
aluminium silver	**6819/50-183-500**	2CKA006800A2799	1

[1] In combination with a relay/contactor, an RC suppressor 6899 has to be used.
[2] Recommendation: HaloX-O flush-mounted box from Kaiser (article no. 1290-40) with corresponding cover (1290-47 or 1290-85 for exposed concrete) or IBTronic H120-68 from Spelsberg

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Presence detector Universal BT, relay [1] [2] [3] [4]** **12 meters** Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement. With Bluetooth interface for parameterization and operation. Adjustment of all setting options via smartphone or tablet. Light control via smartphone or tablet app. With power relays for LED operation. Detection range (for installation height of 3 m): circular Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m. Extension of the detection range by means of master/slave combination. Visible height 23 mm. For semi-automatic, comfort and fully automatic operation. Additional activation/deactivation possibility through pushbutton input. With continuous light/continuous off function (8 hours), activation via intelligent extension unit input possible. With selectable presence simulation in case of non-presence. With integrated storage of ON period (energy monitor). With brightness-independent test mode for evaluating the detection zone. With detection display in test mode. Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Adjustment elements accessible on the front side. Surveillance density: 72 sectors with 640 switching segments. Individual deactivation and adjustment of sensitivity of individual sensors possible. Switch-off delay: approx. 1 min. - 30 min. or short-time pulse adjustable. With selectable dynamic switch-off delay. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Display elements: LED detection and status indication. Rated voltage: 110 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V incandescent lamps Rated power: 2300 W Suitable for: 230 V~ LEDi Rated power: 200 W/VA Suitable for: Fluorescent lamps Rated current: 10 AX, cos ϕ 0.9 Detection angle: 360 ° Brightness limit value: 5 Lux - 2000 Lux Mounting height: 2 m - 4 m Protection class (Device): IP 40 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 94 mm x 94 mm x 72 mm Mounting depth: 49 mm60669-2-1		
studio white matt	**6819/31-24-500**	2CKA006800A2741	1
aluminium silver	**6819/31-183-500**	2CKA006800A2775	1

[1] The detection range with a central approach is reduced.
[2] In combination with a relay/contactor, an RC suppressor 6899 has to be used.
[3] Free app for iOS and Android available in the App Store or Play Store.
[4] Recommendation: HaloX-O flush-mounted box from Kaiser (article no. 1290-40) with corresponding cover (1290-47 or 1290-85 for exposed concrete) or IBTronic H120-68 from Spelsberg

Movement detector

Presence detector

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Presence detector Universal BT, e-contact [1] [2] [3] 12 meters** Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement. With Bluetooth interface for parameterization and operation. Adjustment of all setting options via smartphone or tablet. Light control via smartphone or tablet app. With electronic switch contact for LED operation. With selectable soft ON/OFF function. Detection range (for installation height of 3 m): circular Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m. Extension of the detection range by means of master/slave combination. Visible height 23 mm. For semi-automatic, comfort and fully automatic operation. Additional activation/deactivation possibility through pushbutton input. With continuous light/continuous off function (8 hours), activation via intelligent extension unit input possible. With selectable presence simulation in case of non-presence. With integrated storage of ON period (energy monitor). With brightness-independent test mode for evaluating the detection zone. With detection display in test mode. Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Adjustment elements accessible on the front side. Surveillance density: 72 sectors with 640 switching segments. Individual deactivation and adjustment of sensitivity of individual sensors possible. Switch-off delay: approx. 1 min. - 30 min. or short-time pulse adjustable. With selectable dynamic switch-off delay. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Display elements: LED detection and status indication. Rated voltage: 110 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V incandescent lamps Rated power: 3 - 200 W Suitable for: 230 V~ LEDi Rated power: 3 - 200 W/VA Detection angle: 360 ° Brightness limit value: 5 Lux - 2000 Lux Mounting height: 2 m - 4 m Protection class (Device): IP 40 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 94 mm x 94 mm x 59 mm Mounting depth: 36 mm60669-2-1 Bluetooth APP LEDi		
studio white matt	**6817/33-24-500**	2CKA006800A2743	1
aluminium silver	**6817/33-183-500**	2CKA006800A2777	1

[1] The detection range with a central approach is reduced.
[2] Free app for iOS and Android available in the App Store or Play Store.
[3] Recommendation: HaloX-O flush-mounted box from Kaiser (article no. 1290-40) with corresponding cover (1290-47 or 1290-85 for exposed concrete) or IBTronic H120-68 from Spelsberg

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Presence detector Universal BT, e-contact with sealing ring [1] [2] [3] 12 meters** Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement. With Bluetooth interface for parameterization and operation. Adjustment of all setting options via smartphone or tablet. Light control via smartphone or tablet app. With electronic switch contact for LED operation. With selectable soft ON/OFF function. Detection range (for installation height of 3 m): circular Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m. Extension of the detection range by means of master/slave combination. Visible height 23 mm. For semi-automatic, comfort and fully automatic operation. Additional activation/deactivation possibility through pushbutton input. With continuous light/continuous off function (8 hours), activation via intelligent extension unit input possible. With selectable presence simulation in case of non-presence. With integrated storage of ON period (energy monitor). With brightness-independent test mode for evaluating the detection zone. With detection display in test mode. Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Adjustment elements accessible on the front side. Surveillance density: 72 sectors with 640 switching segments. Individual deactivation and adjustment of sensitivity of individual sensors possible. Switch-off delay: approx. 1 min. - 30 min. or short-time pulse adjustable. With selectable dynamic switch-off delay. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Display elements: LED detection and status indication. Rated voltage: 110 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V incandescent lamps Rated power: 3 - 200 W Suitable for: 230 V~ LEDi Rated power: 3 - 200 W/VA Detection angle: 360 ° Brightness limit value: 5 Lux - 2000 Lux Mounting height: 2 m - 4 m Protection class (Device): IP 41 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 94 mm x 94 mm x 59 mm Mounting depth: 36 mm60669-2-1 Bluetooth APP LEDi		
alpine white	**6817/93-204-500**	2CKA006800A2803	1
aluminium silver	**6817/93-183-500**	2CKA006800A2805	1

[1] The detection range with a central approach is reduced.
[2] Free app for iOS and Android available in the App Store or Play Store.
[3] Recommendation: HaloX-O flush-mounted box from Kaiser (article no. 1290-40) with corresponding cover (1290-47 or 1290-85 for exposed concrete) or IBTronic H120-68 from Spelsberg

Movement detector

Presence detector

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Presence detector Corridor BT, relay [1] [2] [3] 30 metres** Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement. With Bluetooth interface for parameterization and operation. Adjustment of all setting options via smartphone or tablet. Light control via smartphone or tablet app. With power relays for LED operation. Detection range (for installation height of 3 m): rectangular Walking persons: crosswise to the detector 30 m x 3 m, frontal 20 m x 3 m. Extension of the detection range by means of master/slave combination. Mounting height 27 mm. For semi-automatic, comfort and fully automatic operation. Additional activation/deactivation possibility through pushbutton input. With continuous light/continuous off function (8 hours), activation via intelligent extension unit input possible. With selectable presence simulation in case of non-presence. With integrated storage of ON period (energy monitor). With brightness-independent test mode for evaluating the detection zone. With detection display in test mode. Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Adjustment elements accessible on the front side. Surveillance density: 92 sectors with 368 switching segments. Individual deactivation and adjustment of sensitivity of individual sensors possible. Switch-off delay: approx. 1 min. - 30 min. or short-time pulse adjustable. With selectable dynamic switch-off delay. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Display elements: LED detection and status indication. Rated voltage: 110 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V incandescent lamps Rated power: 2300 W Suitable for: 230 V~ LEDi Rated power: 200 W/VA Suitable for: Fluorescent lamps Rated current: 10 AX, cos ϕ 0.9 Detection angle: 360 ° Brightness limit value: 5 Lux - 2000 Lux Mounting height: 2 m - 4 m Protection class (Device): IP 40 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 94 mm x 94 mm x 76 mm Mounting depth: 49 mm60669-2-1		
studio white matt	**6819/51-24-500**	2CKA006800A2745	1
aluminium silver	**6819/51-183-500**	2CKA006800A2779	1

[1] In combination with a relay/contactor, an RC suppressor 6899 has to be used.
[2] Free app for iOS and Android available in the App Store or Play Store.
[3] Recommendation: HaloX-O flush-mounted box from Kaiser (article no. 1290-40) with corresponding cover (1290-47 or 1290-85 for exposed concrete) or IBTronic H120-68 from Spelsberg

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Presence detector Universal BT, DALI [1] [2] [3] [4] 12 meters** Master presence detector with mixed light measurement. For regulating and switching of DALI operating devices that depend on brightness and movement. For DALI broadcast operation (central telegram). Supplies the required voltage for additional DALI operating units and controllers. Suitable for up to 45 DALI operating devices. For changing the colour temperature of "tunable white" lamps, which meet DALI Standard IEC 62386-209 (Device Type 8). Colour temperature can then be set between 2,700 K - 6,500 K. With additional switching output for the activation of heating, air conditioning and ventilation or for switching additional loads (e.g. panel light). Configuration possible up to the complete deactivation of the DALI operating devices. With Bluetooth interface for parameterization and operation. Adjustment of all setting options via smartphone or tablet. Light control via smartphone or tablet app. Detection range (for installation height of 3 m): circular Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m. Extension of the detection range by means of master/slave combination. Visible height 23 mm. For semi-automatic, comfort and fully automatic operation. Additional activation/deactivation possibility through pushbutton input. With continuous light/continuous off function (8 hours), activation via intelligent extension unit input possible. With time-controlled basic illumination function. With selectable warm-up function for fluorescent lamps. With 2-step automatic switch-off (according to EnEV / EN 15232). With time-controlled night anti-glare function. With selectable presence simulation in case of non-presence. With integrated storage of ON period (energy monitor). With brightness-independent test mode for evaluating the detection zone. With teach-in function of the brightness switching threshold, IR service remote control required. With detection display in test mode. Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Adjustment elements accessible on the front side. Surveillance density: 72 sectors with 640 switching segments. Individual deactivation and adjustment of sensitivity of individual sensors possible. Switch-off delay: approx. 1 min. - 30 min. adjustable. With selectable dynamic switch-off delay. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Display elements: LED detection and status indication. Rated voltage: 110 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V incandescent lamps Rated power: 1380 W Suitable for: 230 V~ LEDi Rated power: 200 W/VA Suitable for: Fluorescent lamps Rated current: 6 AX, cos ϕ 0.9 Control/Signal outputs: 1, DALI channels, independent Rated current: 100 mA Output voltage: 16 V- Detection angle: 360 ° Brightness limit value: 5 Lux - 2000 Lux Mounting height: 2 m - 4 m Protection class (Device): IP 40 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 94 mm x 94 mm x 83 mm Mounting depth: 60 mm60669-2-1		
studio white matt	**6819/35-24-500**	2CKA006800A2747	1
aluminium silver	**6819/35-183-500**	2CKA006800A2781	1

[1] The detection range with a central approach is reduced.
[2] In combination with a relay/contactor, an RC suppressor 6899 has to be used.
[3] Free app for iOS and Android available in the App Store or Play Store.
[4] Recommendation: HaloX-O flush-mounted box from Kaiser (article no. 1290-40) with corresponding cover (1290-47 or 1290-85 for exposed concrete) or IBTronic H120-68 from Spelsberg

Movement detector

Presence detector

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Presence detector Corridor BT, DALI [1] [2] [3] 30 metres** Master presence detector with mixed light measurement. For regulating and switching of DALI operating devices that depend on brightness and movement. For DALI broadcast operation (central telegram). Supplies the required voltage for additional DALI operating units and controllers. Suitable for up to 45 DALI operating devices. For changing the colour temperature of "tunable white" lamps, which meet DALI Standard IEC 62386-209 (Device Type 8). Colour temperature can then be set between 2,700 K - 6,500 K. With additional switching output for the activation of heating, air conditioning and ventilation or for switching additional loads (e.g. panel light). Configuration possible up to the complete deactivation of the DALI operating devices. With Bluetooth interface for parameterization and operation. Adjustment of all setting options via smartphone or tablet. Light control via smartphone or tablet app. Detection range (for installation height of 3 m): rectangular Walking persons: crosswise to the detector 30 m x 3 m, frontal 20 m x 3 m. Extension of the detection range by means of master/slave combination. Mounting height 27 mm. For semi-automatic, comfort and fully automatic operation. Additional activation/deactivation possibility through pushbutton input. With continuous light/continuous off function (8 hours), activation via intelligent extension unit input possible. With time-controlled basic illumination function. With selectable warm-up function for fluorescent lamps. With 2-step automatic switch-off (according to EnEV / EN 15232). With time-controlled night anti-glare function. With selectable presence simulation in case of non-presence. With integrated storage of ON period (energy monitor). With brightness-independent test mode for evaluating the detection zone. With teach-in function of the brightness switching threshold, IR service remote control required. With detection display in test mode. Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Adjustment elements accessible on the front side. Surveillance density: 92 sectors with 368 switching segments. Individual deactivation and adjustment of sensitivity of individual sensors possible. Switch-off delay: approx. 1 min. - 30 min. adjustable. With selectable dynamic switch-off delay. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Display elements: LED detection and status indication. Rated voltage: 110 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V incandescent lamps Rated power: 1380 W Suitable for: 230 V~ LEDi Rated power: 200 W/VA Suitable for: Fluorescent lamps Rated current: 6 AX, cos ϕ 0.9 Control/Signal outputs: 1, DALI channels, independent Rated current: 100 mA Output voltage: 16 V- Detection angle: 360 ° Brightness limit value: 5 Lux - 2000 Lux Mounting height: 2 m - 4 m Protection class (Device): IP 40 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 94 mm x 94 mm x 87 mm Mounting depth: 60 mm60669-2-1		
		Bluetooth APP DALI LEDi	
studio white matt	**6819/55-24-500**	2CKA006800A2749	1
aluminium silver	**6819/55-183-500**	2CKA006800A2783	1

[1] In combination with a relay/contactor, an RC suppressor 6899 has to be used.
[2] Free app for iOS and Android available in the App Store or Play Store.
[3] Recommendation: HaloX-O flush-mounted box from Kaiser (article no. 1290-40) with corresponding cover (1290-47 or 1290-85 for exposed concrete) or IBTronic H120-68 from Spelsberg

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Presence detector Compact, slave [1] 8 metres** Slave presence detector for extension of the detection range of master presence detectors. Detection range (for installation height of 3 m): circular Seated persons: up to Ø 6.5 m, walking persons: up to Ø 8 m. Visible height 23 mm. Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Surveillance density: 48 sectors with 496 switching segments. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm. Rated voltage: 110 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Detection angle: 360 ° Mounting height: 2 m - 4 m Protection class (Device): IP 40 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 94 mm x 94 mm x 72 mm Mounting depth: 49 mm		
studio white matt	**6819/68-24-500**	2CKA006800A2751	1
aluminium silver	**6819/68-183-500**	2CKA006800A2785	1

[1] The detection range with a central approach is reduced.

	**Busch-Presence detector Universal, slave [1] [2] 12 meters** Slave presence detector for extension of the detection range of master presence detectors. Detection range (for installation height of 3 m): circular Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m. Visible height 23 mm. Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Surveillance density: 72 sectors with 640 switching segments. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm. Rated voltage: 110 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Detection angle: 360 ° Mounting height: 2 m - 4 m Protection class (Device): IP 40 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 94 mm x 94 mm x 72 mm Mounting depth: 49 mm		
studio white matt	**6819/38-24-500**	2CKA006800A2753	1
aluminium silver	**6819/38-183-500**	2CKA006800A2787	1

[1] The detection range with a central approach is reduced.
[2] Recommendation: HaloX-O flush-mounted box from Kaiser (article no. 1290-40) with corresponding cover (1290-47 or 1290-85 for exposed concrete) or IBTronic H120-68 from Spelsberg

Movement detector

Presence detector

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Presence detector Corridor, slave [1]) 24 meters** Slave presence detector for extension of the detection range of master presence detectors. Detection range (for installation height of 3 m): rectangular Walking persons: crosswise to the detector 24 m x 3 m, frontal/lengthways to the detector 14 m x 3 m. Mounting height 27 mm. Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Surveillance density: 92 sectors with 368 switching segments. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm. Rated voltage: 110 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Detection angle: 360 ° Mounting height: 2 m - 4 m Protection class (Device): IP 40 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 94 mm x 94 mm x 76 mm Mounting depth: 49 mm		
studio white matt	**6819/58-24-500**	2CKA006800A2755	1
aluminium silver	**6819/58-183-500**	2CKA006800A2789	1

[1]) Recommendation: HaloX-O flush-mounted box from Kaiser (article no. 1290-40) with corresponding cover (1290-47 or 1290-85 for exposed concrete) or IBTronic H120-68 from Spelsberg

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Presence detector Universal, slave, DALI [1]) [2]) 12 meters** DALI slave presence detector for extension of the detection range of DALI master presence detectors. For the supply of operating voltage via the DALI master. Power consumption on the DALI bus: max. 10 mA, corresponds to approx. 5 DALI operating devices. The communication with the DALI master is carried out via the DALI interface. Detection range (for installation height of 3 m): circular Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m. Visible height 23 mm. Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Surveillance density: 72 sectors with 640 switching segments. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm. Rated voltage: 95 - 22.5 V- Detection angle: 360 ° Mounting height: 2 m - 4 m Protection class (Device): IP 40 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 94 mm x 94 mm x 72 mm Mounting depth: 49 mm **DALI**		
studio white matt	**6819/39-24-500**	2CKA006800A2759	1
aluminium silver	**6819/39-183-500**	2CKA006800A2793	1

[1]) The detection range with a central approach is reduced.
[2]) Recommendation: HaloX-O flush-mounted box from Kaiser (article no. 1290-40) with corresponding cover (1290-47 or 1290-85 for exposed concrete) or IBTronic H120-68 from Spelsberg

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Presence detector Corridor, slave, DALI [1]) 30 metres** DALI slave presence detector for extension of the detection range of DALI master presence detectors. For the supply of operating voltage via the DALI master. Power consumption on the DALI bus: max. 10 mA, corresponds to approx. 5 DALI operating devices. The communication with the DALI master is carried out via the DALI interface. Detection range (for installation height of 3 m): rectangular Walking persons: crosswise to the detector 24 m x 3 m, frontal/lengthways to the detector 14 m x 3 m. Mounting height 27 mm. Ceiling installation using integrated spring bracket. Twist protection via additional quick tensioning. Surveillance density: 92 sectors with 368 switching segments. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm. Rated voltage: 95 - 22.5 V- Detection angle: 360 ° Mounting height: 2 m - 4 m Protection class (Device): IP 40 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 94 mm x 94 mm x 76 mm Mounting depth: 49 mm **DALI**		
studio white matt	**6819/59-24-500**	2CKA006800A2761	1
aluminium silver	**6819/59-183-500**	2CKA006800A2795	1

[1]) Recommendation: HaloX-O flush-mounted box from Kaiser (article no. 1290-40) with corresponding cover (1290-47 or 1290-85 for exposed concrete) or IBTronic H120-68 from Spelsberg

Product	Article-No.	Order-No.	Pack/Qty
	**Busch extension unit coupling [1])** For transmitting different control commands via a single conductor wire. For devices with intelligent extension input. For operation via conventional push-buttons 2020 US and 2021/6 U. For operation via conventional 2gang push-buttons 2020 US-205 and 2021/6/6 U. For universal attachment or installation. For installation in (deep) flush-mounted boxes to German Standard DIN 49073. Including compact connecting terminal for cable connection. Cable length: approx. 80 mm. Rated voltage: 110 - 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Inputs: 2 Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 33 mm x 45 mm x 8.5 mm		
	6494-500	2CKA006499A0002	1

[1]) To be mounted only in connection with commercially available flush-mounted installation boxes according to DIN 49073 > 40 mm depth gauge or Busch-Jaeger art. no. 3040, 3050 or 3060.

Movement detector

Presence detector

Product	Article-No.	Order-No.	Pack/Qty
	**ABB flexTronic presence detector, universal Sensor [1] [2] [3] 12 meters** Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement. Detection range (for installation height of 3 m): circular Seated persons: up to Ø 10 m, walking persons: up to Ø 12 m. Extension of the detection range by means of master/slave combination. Mounting height: 35 mm For semiautomatic and fully automatic operation. Additional activation/deactivation possibility through pushbutton input. With continuous light/duration-off function (8 hrs), IR service remote control necessary. With teach-in function of the brightness switching threshold, IR service remote control required. With brightness-independent test mode for evaluating the detection zone. With detection display in test mode. Remote control possible via IR service remote control 6843. Adjustment elements accessible on the front side. Surveillance density: 72 sectors with 640 switching segments. Switch-off delay: approx. 1 min. - 30 min. or short-time pulse adjustable. For Universal relay insert 6440/01 U. For Universal e-contact insert 6440/04 U. For Universal slave insert 6440/05 U.		
studio white matt	**64753-24-500**	2CKA006800A3027	1
aluminium silver	**64753-183-500**	2CKA006800A3029	1

[1] The detection range with a central approach is reduced.
[2] The range specifications refer only to an ambient temperature of 21°C.
[3] Please order the respective flush-mounted insert separately.

Product	Article-No.	Order-No.	Pack/Qty
	**ABB flexTronic presence detector, sky sensor** Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement. Detection range (for mounting height 6 m and 12 m): circular. Walking persons Ø: max. 18 m and 24 m. Extension of the detection range by means of master/slave combination. Mounting height: 35 mm For semiautomatic and fully automatic operation. Additional activation/deactivation possibility through pushbutton input. With brightness-independent test mode for evaluating the detection zone. With detection display in test mode. Adjustment elements accessible on the front side. Surveillance density: 72 sectors with 640 switching segments. Switch-off delay: approx. 1 min. - 30 min. or short-time pulse adjustable. Compatible with all free@home flex inserts. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U.		
studio white matt	**64754-24-500**	2CKA006800A3031	1
aluminium silver	**64754-183-500**	2CKA006800A3033	1

Product	Article-No.	Order-No.	Pack/Qty
	**ABB flexTronic presence detector, corridor sensor** Master presence detector with mixed light measurement. For switching lighting systems that depend on brightness and movement. Detection range (for installation height of 3 m): rectangular Walking persons: crosswise to the detector 24 m x 3 m, frontal/lengthways to the detector 14 m x 3 m. Extension of the detection range by means of master/slave combination. For semiautomatic and fully automatic operation. Additional activation/deactivation possibility through pushbutton input. With continuous light/duration-off function (8 hrs), IR service remote control necessary. With teach-in function of the brightness switching threshold, IR service remote control required. With brightness-independent test mode for evaluating the detection zone. With detection display in test mode. Remote control possible via IR service remote control 6843. Adjustment elements accessible on the front side. Surveillance density: 72 sectors with 640 switching segments. Switch-off delay: approx. 1 min. - 30 min. or short-time pulse adjustable. Compatible with all free@home flex inserts. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U.		
studio white matt	**64755-24-500**	2CKA006800A3035	1
aluminium silver	**64755-183-500**	2CKA006800A3037	1

	**Busch-Presence detector Universal, decor frame [1]** Paintable decor frame for individual design. For presence detectors with Compact and Universal lens. For latching onto the presence detector. Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 94 mm x 94 mm x 23 mm		
studio white matt	**6889/30-24-500**	2CKA006800A2765	10

[1] The decor frame included in the scope of delivery of the presence detector must be removed before mounting.

	**Busch movement detector Corridor, decor frame [1]** Paintable decor frame for individual design. For presence detector with Corridor lens. For latching onto the presence detector. Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 94 mm x 94 mm x 27 mm		
studio white matt	**6889/50-24-500**	2CKA006800A2801	10

[1] The decor frame included in the scope of delivery of the presence detector must be removed before mounting.

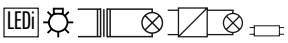
	**Presence detector surface-mounting housing** For installing a Universal insert in combination with the Busch-Presence detector sensor. Compatible with all free@home flexTronics inserts. For Busch-Presence detector sensors 6813- to -102. For Universal relay insert 6440/01 U. For Universal e-contact insert 6440/04 U. For Universal slave insert 6440/05 U. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For extension insert flex, 64891 U. For LED touch dimmer insert flex, 1gang, 64851 U.		
studio white matt	**6883-24-500**	2CKA006899A2369	1
aluminium silver	**6883-183-500**	2CKA006899A2371	1

Movement detector

ABB flexTronics inserts

Product	Article-No.	Order-No.	Pack/Qty
	**64811 U-500**	2CKA006800A3042	1/10

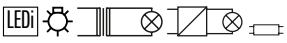
Relay insert flex, 1gang [1])
3 wire connection (neutral conductor required).
For switching lighting systems.
Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units.
Operation also possible via conventional push buttons (2020 US, 2021/6 UK).
Without control cover.
For control element flex, 1gang, wireless, 62711-WL.
For control element flex, 2gang, wireless, 62721-WL.
For Busch-Comfort switch flex control element 64765-... .
For Busch-Watchdog 180 flex sensors 6476x-... .
For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL.
Combinable with extension insert, 64891 U.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Inputs: 1
Outputs: 1x Normally open contact, potential-bound
Suitable for: 230 V- LEDi, typical.
Rated power: 300 VA
Suitable for: 230 V incandescent lamps/230 V halogen lamps
Rated power: 2300 W
Suitable for: Low voltage halogen lamps that are operated via transformers.
Rated power: 2300 VA
Temperature range (Device): -25 °C to 55 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm
Mounting depth: 25 mm



[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**64821 U-500**	2CKA006800A3045	1

Relay insert flex, 2gang [1])
3 wire connection (neutral conductor required).
For switching lighting systems.
For switching two independent load circuits.
For controlling light and ventilation systems.
Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units.
Operation also possible via conventional push buttons (2020 US, 2021/6 UK).
Without control cover.
For control element flex, 1gang, wireless, 62711-WL.
For control element flex, 2gang, wireless, 62721-WL.
For Busch-Comfort switch flex control element 64765-... .
For Busch-Watchdog 180 flex sensors 6476x-... .
For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL.
Combinable with extension insert, 64891 U.
Rated voltage: 230 V~, +10 % / -10 %
Rated frequency: 50 Hz
Inputs: 2
Outputs: 2x Normally open contact, potential-bound
Suitable for: 230 V- LEDi, typical.
Rated power: 300 VA
Suitable for: 230 V incandescent lamps/230 V halogen lamps
Rated power: 1840 W
Suitable for: Low voltage halogen lamps that are operated via transformers.
Rated power: 1150 VA
Temperature range (Device): -25 °C to 55 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm
Mounting depth: 25 mm



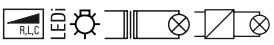
[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Movement detector

ABB flexTronics inserts

Product	Article-No.	Order-No.	Pack/Qty
	**e-contact insert flex, 1gang [1] [2]** 2-wire connection (neutral conductor not required) Neutral conductor optionally connectable (recommended for the connection of low loads < 10 W/VA). For switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with extension insert, 64891 U. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 1 Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V- LEDi, typical. Rated power: 3 - 240 VA Suitable for: 230 V incandescent lamps/230 V halogen lamps Rated power: 10 - 240 W Suitable for: Low voltage halogen lamps that are operated via transformers. Rated power: 3 - 240 VA Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm Mounting depth: 25 mm 		
	64814 U-500	2CKA006800A3048	1

[1] Use only dimmable high-voltage LEDs.
[2] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**LED dimmer insert flex, 1gang [1] [2] [3] [4] [5] [6]** **FM, LED, 3-240 VA** 2-wire connection (neutral conductor not required) Neutral conductor optionally connectable (recommended for the connection of low loads < 10 W/VA). Touch dimmer for switching lighting systems. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Optimised for dimming of retrofit LED lamps (LEDi). For dimmable Retrofit-LEDs (LEDi). For dimmable Retrofit-LEDs (LEDi) with conventional or electronic transformers. For incandescent lamps, 230 V tungsten halogen lamps, low-voltage halogen lamps with conventional or electronic transformers and dimmable energy-saving halogen lamps. Mix operaton of LEDi with conventional loads possible. With manually adjustable operating mode: trailing / leading edge control. With adjustable minimum brightness. With light-level memory and minimum brightness memory. Low-noise level by MOSFET transistors. With electronic short-circuit protection. With electronic overload protection. Without control cover. For control element flex, 1gang, 64711. For control element flex, 2gang, 64721. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Rated power: 3-240 VA (LEDi) Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 1 Outputs: 1x dimming channel Suitable for: 230 V LEDi, typical (leading edge control) Rated power: 3 - 100 VA Suitable for: 230 V LEDi, typical (trailing edge control) Rated power: 3 - 240 W Suitable for: 230 V incandescent lamps, 230 V halogen lamps and low-voltage halogen lamps with conventional transformers or Busch Electronic Transformer. Rated power: 10 - 240 VA Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm Mounting depth: 25 mmIEC 60669-2-1, British Standard EN 60669-2-1 		
	64851 U-500	2CKA006500A0013	1

[1] In the case of conventional transformers, take ~20% transformer loss into account.
[2] In case of electronic transformers, 5 % transformer losses.
[3] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)
[4] Recommendation: Please use loads and types of one producer.
[5] The dimmer interface is not standardised, it is the responsibility of the lamp manufacturers to list compatible products in their manufacturing information. Different installation situations can lead to different results. To clear up the problem, for example, it is recommended to carry out a local test of the selected lamps and dimmers. Please consult the lamp manufacturer for the LED dimmer recommended.
[6] A liability on the part of Busch-Jaeger for the compatibility of the allocated lamps and dimmers is therefore excluded.

Movement detector

ABB flexTronics inserts and sensors

Product	Article-No.	Order-No.	Pack/Qty
	**Extension insert flex [1])** 3 wire connection (neutral conductor required). For the extension of the Busch-Comfort switch or presence detector installations. For group control of flex inserts via extension unit communication. Operation in 1gang 2way installations via push switch-unit for combination with flush-mounted units. Without control cover. For control element flex, 1gang, wireless, 62711-WL. For control element flex, 2gang, wireless, 62721-WL. For Busch-Watchdog 180 flex sensors 6476x-... . For Busch-Watchdog 180 flex sensors, wireless, 6276x-...-WL. Combinable with all flex inserts. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Control/Signal outputs: 1, electronic output, potential-bound Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm Mounting depth: 25 mm		
	64891 U-500	2CKA006800A3051	1

[1]) Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Product	Article-No.	Order-No.	Pack/Qty
	**ABB flexTronic presence detector flex set with universal sensor and relay insert** Modular presence detector with universal lens (set packaging). Detection range (for mounting height 6 m and 12 m): circular. Walking persons Ø: max. 18 m and 24 m.		
	64753 U-24-500	2CKA006800A3038	1
	**ABB flexTronic presence detector flex set with sky sensor and relay insert** Modular presence detector with universal lens (set packaging). Detection range (for mounting height 6 m and 12 m): circular. Walking persons Ø: max. 18 m and 24 m.		
	64754 U-24-500	2CKA006800A3039	1
	**ABB flexTronic presence detector flex set with corridor sensor and relay insert** Detection range (for installation height of 3 m): rectangular Walking persons: crosswise to the detector 24 m x 3 m, frontal/ lengthways to the detector 14 m x 3 m.		
	64755 U-24-500	2CKA006800A3040	1

Movement detector

Presence detector

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Presence detector mini KNX [1])** **8 meters** Detection range (for mounting height 2.5 m, 3 m and 4 m): circular. Seated persons Ø: max. 5 m, max. 6.5 m and max. 9 m. Walking persons Ø: max. 6.5 m, max. 8 m and max. 10.5 m. Visible height 16 mm. With 2 channels. Targeted for connection and disconnection of lights bands depending on the room brightness. Regulation in response to the movement possible. Using the device as presence and/or movement detectors. Detectors application with 2 power off stages. Detectors application with integrated monitoring function. Constant light switch with up to two independent channels. Constant light switch with max. 2 outputs for brightness-dependent switching of two light bands in the area. With integrated KNX bus coupler. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm. Suitable for surface mounting installation. Cannot be installed in British Standard or VDE flushmounted box. Recommendation: Installation housing from Kaiser HaloX-O (Art.no. 1290-40) with corresponding cover plates (1290-47 or 1290-85 for fair faced concrete) or IBTronic H120-68 from Spelsberg. Connections: KNX-line: Bus connection terminal Brightness limit value: 1 Lux - 1000 Lux Mounting height: 2 m - 4 m Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 80 mm x 80 mm x 45 mm Mounting depth: 29 mm		
aluminium silver	**6131/20-183-500**	2CKA006132A0343	1
studio white matt	**6131/20-24-500**	2CKA006132A0342	1

[1]) For software and description please check the current Online-Catalogue.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Presence detector mini premium KNX [1]) [2])** **8 meters** Detection range (for mounting height 2.5 m, 3 m and 4 m): circular. Seated persons Ø: max. 5 m, max. 6.5 m and max. 9 m. Walking persons Ø: max. 6.5 m, max. 8 m and max. 10.5 m. Visible height 16 mm. With 4 channels. For dimming/brightness of the rules to a defined value in a designated collection area. HVAC function for controlling heating and/or cooling systems and ventilation systems in the designated collection area. Detectors application with 2 power off stages. Detectors application with integrated monitoring function. Constant light controller with up to two independent channels. Constant light controller with max. 2 outputs for dimming daylight control/rules of two rooflights in the room. Integrated object room temperature controller. 10 freely programmable IR channels (blue and/or white) Incl. 5 logic channels (logic gates, gates, delay and staircase lighting) Evaluation via internal brightness sensor. Weighting of up to 2 external brightness values and the internal brightness sensor possible. The programming button can be activated with the IR transmitter 6010-25 (-500). With integrated KNX bus coupler. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm. Suitable for surface mounting installation. Cannot be installed in British Standard or VDE flushmounted box. Recommendation: Installation housing from Kaiser HaloX-O (Art.no. 1290-40) with corresponding cover plates (1290-47 or 1290-85 for fair faced concrete) or IBTronic H120-68 from Spelsberg. Connections: KNX-line: Bus connection terminal Brightness limit value: 1 Lux - 1000 Lux Mounting height: 2 m - 4 m Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 80 mm x 80 mm x 45 mm Mounting depth: 29 mm		
aluminium silver	**6131/21-183-500**	2CKA006132A0345	1
studio white matt	**6131/21-24-500**	2CKA006132A0344	1

[1]) For software and description please check the current Online-Catalogue.
[2]) HVAC = Heating/ ventilation/air-conditioning

Movement detector

Presence detector

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Presence detector KNX [1]) 12 meters** Detection range (for mounting height 2.5 m, 3 m and 4 m): circular. Seated persons Ø: max. 8 m, max. 10 m and max. 14 m. Walking persons Ø: max. 10 m, max. 12 m and max. 16 m. Visible height 23 mm. With 2 channels. Targeted for connection and disconnection of lights bands depending on the room brightness. Regulation in response to the movement possible. Using the device as presence and/or movement detectors. Detectors application with 2 power off stages. Detectors application with integrated monitoring function. Constant light switch with up to two independent channels. Constant light switch with max. 2 outputs for brightness-dependent switching of two light bands in the area. With integrated KNX bus coupler. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm. Suitable for surface mounting installation. Cannot be installed in British Standard or VDE flushmounted box. Recommendation: Installation housing from Kaiser HaloX-O (Art.no. 1290-40) with corresponding cover plates (1290-47 or 1290-85 for fair faced concrete) or IBTronic H120-68 from Spelsberg. Connections: KNX-line: Bus connection terminal Brightness limit value: 1 Lux - 1000 Lux Mounting height: 2 m - 4 m Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 91 mm x 91 mm x 45 mm Mounting depth: 22 mm		
aluminium silver	**6131/30-183-500**	2CKA006132A0347	1
studio white matt	**6131/30-24-500**	2CKA006132A0346	1

[1]) For software and description please check the current Online-Catalogue.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Presence detector premium KNX [1]) [2]) 12 meters** Detection range (for mounting height 2.5 m, 3 m and 4 m): circular. Seated persons Ø: max. 8 m, max. 10 m and max. 14 m. Walking persons Ø: max. 10 m, max. 12 m and max. 16 m. Visible height 23 mm. With 4 channels. For dimming/brightness of the rules to a defined value in a designated collection area. HVAC function for controlling heating and/or cooling systems and ventilation systems in the designated collection area. Detectors application with 2 power off stages. Detectors application with integrated monitoring function. Constant light controller with up to two independent channels. Constant light controller with max. 2 outputs for dimming daylight control/rules of two rooflights in the room. Integrated object room temperature controller. 10 freely programmable IR channels (blue and/or white) Incl. 5 logic channels (logic gates, gates, delay and staircase lighting) Evaluation via internal brightness sensor. Weighting of up to 2 external brightness values and the internal brightness sensor possible. The programming button can be activated with the IR transmitter 6010-25 (-500). With integrated KNX bus coupler. Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm. Suitable for surface mounting installation. Cannot be installed in British Standard or VDE flushmounted box. Recommendation: Installation housing from Kaiser HaloX-O (Art.no. 1290-40) with corresponding cover plates (1290-47 or 1290-85 for fair faced concrete) or IBTronic H120-68 from Spelsberg. Connections: KNX-line: Bus connection terminal Brightness limit value: 1 Lux - 1000 Lux Mounting height: 2 m - 4 m Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 91 mm x 91 mm x 45 mm Mounting depth: 22 mm		
aluminium silver	**6131/31-183-500**	2CKA006132A0349	1
studio white matt	**6131/31-24-500**	2CKA006132A0348	1

[1]) For software and description please check the current Online-Catalogue.
[2]) HVAC = Heating/ ventilation/air-conditioning

Movement detector

Presence detector

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Presence detector Corridor KNX [1]** **30 meters** Detection range: rectangular. For mounting height of 3 m: frontal toward the detector at a max. of 20 m x 3 m (at a max. of 10 m x 3 m per side). Crosswise toward the detector at a max. of 30 m x 3 m (max. of 15 m x 3m per side). With integrated KNX bus coupler. Mounting height 27 mm. With 2 channels. Targeted for connection and disconnection of lights bands depending on the room brightness. Regulation in response to the movement possible. Using the device as presence and/or movement detectors. Detectors application with 2 power off stages. Detectors application with integrated monitoring function. Constant light switch with up to two independent channels. Constant light switch with max. 2 outputs for brightness-dependent switching of two light bands in the area. Ceiling mounting on suspended ceilings with spring clamps, on solid ceilings in surface-mounting boxes 6131/39-xxx(-500) or on VDE flush-mounted boxes with intermediate ring for VDE flush-mounted boxes 6131/38-xxx(-500). Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm. Cannot be installed in British Standard or VDE flushmounted box. Recommendation: Installation housing from Kaiser HaloX-O (Art.no. 1290-40) with corresponding cover plates (1290-47 or 1290-85 for fair faced concrete) or IBTronic H120-68 from Spelsberg. Connections: KNX-line: Bus connection terminal Brightness limit value: 1 Lux - 1000 Lux Mounting height: 2 m - 4 m Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 91 mm x 91 mm x 49 mm Mounting depth: 22 mm		
studio white matt	**6131/50-24-500**	2CKA006132A0399	1
studio white matt	**6131/50-24-508**	2CKA006131A0054	1
aluminium silver	**6131/50-183-500**	2CKA006132A0400	1

[1] For software and description please check the current Online-Catalogue.

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Presence detector Corridor premium KNX [1] [2]** **30 meters** Detection range: rectangular. For mounting height of 3 m: frontal toward the detector at a max. of 20 m x 3 m (at a max. of 10 m x 3 m per side). Crosswise toward the detector at a max. of 30 m x 3 m (max. of 15 m x 3m per side). With integrated KNX bus coupler. Mounting height 27 mm. With 4 channels. For dimming/brightness of the rules to a defined value in a designated collection area. HVAC function for controlling heating and/or cooling systems and ventilation systems in the designated collection area. Detectors application with 2 power off stages. Detectors application with integrated monitoring function. Constant light controller with up to two independent channels. Constant light controller with max. 2 outputs for dimming daylight control/rules of two rooflights in the room. Integrated object room temperature controller. 10 freely programmable IR channels (blue and/or white) Incl. 5 logic channels (logic gates, gates, delay and staircase lighting) Evaluation via internal brightness sensor. Weighting of up to 2 external brightness values and the internal brightness sensor possible. The programming button can be activated with the IR transmitter 6010-25 (-500). Ceiling mounting on suspended ceilings with spring clamps, on solid ceilings in surface-mounting boxes 6131/39-xxx(-500) or on VDE flush-mounted boxes with intermediate ring for VDE flush-mounted boxes 6131/38-xxx(-500). Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm. Cannot be installed in British Standard or VDE flushmounted box. Recommendation: Installation housing from Kaiser HaloX-O (Art.no. 1290-40) with corresponding cover plates (1290-47 or 1290-85 for fair faced concrete) or IBTronic H120-68 from Spelsberg. Connections: KNX-line: Bus connection terminal Brightness limit value: 1 Lux - 1000 Lux Mounting height: 2 m - 4 m Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 91 mm x 91 mm x 49 mm Mounting depth: 22 mm		
studio white matt	**6131/51-24-500**	2CKA006132A0413	1
studio white matt	**6131/51-24-508**	2CKA006131A0058	1
aluminium silver	**6131/51-183-500**	2CKA006132A0414	1

[1] For software and description please check the current Online-Catalogue.
[2] HVAC = Heating/ ventilation/air-conditioning

Movement detector

Presence detector

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog Sky KNX [1])** **24 meters** Detection range (for mounting height 6 m and 12 m): circular. Walking persons Ø: max. 18 m and 24 m. Visible height 23 mm. With 2 channels. Targeted for connection and disconnection of lights bands depending on the room brightness. Use of the device as a movement detector. Detectors application with 2 power off stages. Detectors application with integrated monitoring function. Constant light switch with up to two independent channels. Constant light switch with max. 2 outputs for brightness-dependent switching of two light bands in the area. With integrated KNX bus coupler. The programming button can be activated with the IR transmitter 6010-25 (-500). Suitable for false ceilings with a board thickness from 9 to 25 mm. Hole size: Ø 68 mm. Suitable for surface mounting installation. Cannot be installed in British Standard or VDE flushmounted box. Recommendation: Installation housing from Kaiser HaloX-O (Art.no. 1290-40) with corresponding cover plates (1290-47 or 1290-85 for fair faced concrete) or IBTronic H120-68 from Spelsberg. Connections: KNX-line: Bus connection terminal Brightness limit value: 1 Lux - 1000 Lux Mounting height: 4 m - 12 m Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 91 mm x 91 mm x 45 mm Mounting depth: 22 mm		
studio white matt	**6131/40-24-500**	2CKA006132A0350	1

[1]) For software and description please check the current Online-Catalogue.

Product	Article-No.	Order-No.	Pack/Qty
	**Surface-mounting box** **For Busch-Presence detector mini KNX** For installing a Busch-Presence detector mini KNX 6131/20-xxx(-500) or a Busch-Presence detector mini premium KNX 6131/21-xxx(-500). Protection class (Device): IP 20 Dimensions: (L x W x D): 80 mm x 80 mm x 35 mm		
aluminium silver	**6131/29-183-500**	2CKA006132A0352	1
studio white matt	**6131/29-24-500**	2CKA006132A0351	1

Product	Article-No.	Order-No.	Pack/Qty
	**Surface-mounting box** **For Busch-Presence detector KNX, Busch-Watchdog Sky KNX and Busch-Presence detector Corridor KNX** For mounting a Busch-Presence detector KNX 6131/30-xxx(-500), a Busch-Presence detector Premium KNX 6131/31-xxx(-500), a Busch-Presence detector Corridor KNX 6131/50-xxx(-500), a Busch-Presence detector Corridor premium KNX 6131/51-xxx(-500) or a Busch-Watchdog Sky KNX 6131/40-24(-500). Protection class (Device): IP 20 Dimensions: (L x W x D): 91 mm x 91 mm x 33 mm		
aluminium silver	**6131/39-183-500**	2CKA006132A0354	1
studio white matt	**6131/39-24-500**	2CKA006132A0353	1

Product	Article-No.	Order-No.	Pack/Qty
	**Intermediate ring for VDE flush-mounted box** **For Busch-Presence detector KNX, Busch-Watchdog Sky KNX and Busch-Presence detector Corridor KNX** For Busch-Presence detector KNX and Busch-Watchdog Sky KNX. For mounting a Busch-Presence detector KNX 6131/30-xxx(-500), a Busch-Presence detector KNX Premium KNX 6131/31-xxx(-500), a Busch-Presence detector Corridor KNX 6131/50-xxx(-500), a Busch-Presence detector Corridor premium KNX 6131/51-xxx(-500) or a Busch-Watchdog Sky KNX 6131/40-24(-500) on a VDE flush-mounted box. Protection class (Device): IP 20 Dimensions: (L x W x D): 91 mm x 91 mm x 22 mm		
studio white matt	**6131/38-24-500**	2CKA006132A0403	1
aluminium silver	**6131/38-183-500**	2CKA006132A0404	1

Movement detector

Busch-Watchdog presence inserts

Product	Article-No.	Order-No.	Pack/Qty
	Comfort switch flex sensor Movement detector push-button switch combination. For switching lighting systems that depend on brightness and movement. Push switch function possible at all times. Extension of the detection range by means of master/slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. Adjustable operating mode: automatic mode, automatic (motion-controlled) switch-on and switch-off. Adjustable operating mode: semiautomatic, manual switch-on, automatic (timer and movement-controlled) switch-off. Adjustable operating mode: automatic mode, automatic switch-on, manual switch-off. With continuous light/continuous Off function. Adjusting elements on rear side. Surveillance density: 9 sectors with 28 switching segments. Switch-off delay: 1 to 10 min., adjustable. Compatible with all free@home flexTronics inserts. For relay insert flex, 1gang, 64811 U. For series relay insert flex, 2gang, 64821 U. For e-contact insert flex, 1gang, 64814 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Please order the respective flush-mounted insert separately. The range specifications refer only to an ambient temperature of 21°C.		
	64765-81-500	2CKA006800A2883	
	64765-82-500	2CKA006800A2885	
	64765-83-500	2CKA006800A2887	
	64765-84-500	2CKA006800A2889	
	64765-803-500	2CKA006800A2891	
	64765-884-500	2CKA006800A2893	
	64765-885-500	2CKA006800A2895	
	64765-840-500	2CKA006800A2896	
	64765-866-500	2CKA006800A2898	
	64765-92-507	2CKA006800A2903	
	64765-93-507	2CKA006800A2904	
	64765-94-507	2CKA006800A2905	
	64765-95-507	2CKA006800A2906	
	64765-96-507	2CKA006800A2907	
	**Busch-Watchdog 180 flex, basic sensor [1] [2] with select-lens** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Compatible with all free@home flex inserts. Adjusting elements on rear side. Extension of the detection range by means of master/slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. With detection display in test mode. Surveillance density: 14 sectors with 56 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 22 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Detection range: frontal: 12 m, lateral: 12 m, Mounting height: 1.1 m Detection angle: 180 ° Brightness limit value: 5 Lux - 500 Lux Up to daytime operation Mounting height: 0.8 m - 1.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 35 mm		

Product	Article-No.	Order-No.	Pack/Qty
	future® linear		
anthracite	**64761-81-500**	2CKA006800A2921	1
ivory white	**64761-82-500**	2CKA006800A2923	1
aluminium silver [3]	**64761-83-500**	2CKA006800A2925	1
studio white	**64761-84-500**	2CKA006800A2927	1
studio white, matt [3]	**64761-884-500**	2CKA006800A2931	1
black matt [3]	**64761-885-500**	2CKA006800A2933	1
	solo®		
ivory white	**64761-82-500**	2CKA006800A2923	1
studio white	**64761-84-500**	2CKA006800A2927	1
grey metallic [3]	**64761-803-500**	2CKA006800A2929	1
	Busch-axcent®		
anthracite	**64761-81-500**	2CKA006800A2921	1
aluminium silver [3]	**64761-83-500**	2CKA006800A2925	1
studio white	**64761-84-500**	2CKA006800A2927	1
studio white, matt [3]	**64761-884-500**	2CKA006800A2931	1
black matt [3]	**64761-885-500**	2CKA006800A2933	1
grey metallic [3]	**64761-803-500**	2CKA006800A2929	1
	carat®		
anthracite	**64761-81-500**	2CKA006800A2921	1
ivory white	**64761-82-500**	2CKA006800A2923	1
studio white	**64761-84-500**	2CKA006800A2927	1
studio white, matt [3]	**64761-884-500**	2CKA006800A2931	1
black matt [3]	**64761-885-500**	2CKA006800A2933	1
	pure stainless steel		
stainless steel	**64761-866-500**	2CKA006800A2936	1
	Busch-dynasty®		
anthracite	**64761-81-500**	2CKA006800A2921	1
ivory white	**64761-82-500**	2CKA006800A2923	1
antique brass [3]	**64761-840-500**	2CKA006800A2934	1
	basic 55		
white	**64761-92-507**	2CKA006800A2941	1
champagne [3]	**64761-93-507**	2CKA006800A2942	1
alpine white	**64761-94-507**	2CKA006800A2943	1
château-black	**64761-95-507**	2CKA006800A2944	1
chalet-white	**64761-96-507**	2CKA006800A2945	1

[1] Please order the respective flush-mounted insert separately.
[2] The range specifications refer only to an ambient temperature of 21°C.
[3] Surface painted.

Movement detector

Busch-Watchdog presence inserts



Busch-Watchdog 180 flex, comfort sensor [1] [2]
with select-lens
Movement detector sensor with with measurement of ambient light.
For automatic switching of devices dependent on motion and brightness.
Push switch function possible at all times.
In combination with dimmer insert flex: dimming function of lighting and selectable light value storage.
With enabling of pre-warning of switch-off for stairwell operation.
Compatible with all free@home flex inserts.
Adjusting elements on rear side.
Extension of the detection range by means of master/slave combination.
Additional activation/deactivation option via push-button input on the flush-mounted insert.
With continuous light/continuous Off function.
With detection display in test mode.
Surveillance density: 14 sectors with 56 switching segments.
Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable.
For relay insert flex, 1gang, 64811 U.
For e-contact insert flex, 1gang, 64814 U.
For series relay insert flex, 2gang, 64821 U.
For LED touch dimmer insert flex, 1gang, 64851 U.
For extension insert flex, 64891 U.
Mounting height: 22 mm.
Control element: 2 controllers for setting the brightness switching threshold and switch-off delay.
Detection range: frontal: 12 m, lateral: 12 m, Mounting height: 1.1 m
Detection angle: 180 °
Brightness limit value: 5 Lux - 500 Lux Up to daytime operation
Mounting height: 0.8 m - 1.2 m
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 63 mm x 63 mm x 35 mm

Product	Article-No.	Order-No.	Pack/Qty
	future® linear		
anthracite	**64762-81-500**	2CKA006800A2958	1
ivory white	**64762-82-500**	2CKA006800A2960	1
aluminium silver [3]	**64762-83-500**	2CKA006800A2962	1
studio white	**64762-84-500**	2CKA006800A2964	1
studio white matt [3]	**64762-884-500**	2CKA006800A2968	1
black matt [3]	**64762-885-500**	2CKA006800A2970	1
	solo®		
ivory white	**64762-82-500**	2CKA006800A2960	1
studio white	**64762-84-500**	2CKA006800A2964	1
grey metallic [3]	**64762-803-500**	2CKA006800A2966	1
	Busch-axcent®		
anthracite	**64762-81-500**	2CKA006800A2958	1
studio white	**64762-84-500**	2CKA006800A2964	1
grey metallic [3]	**64762-803-500**	2CKA006800A2966	1
studio white matt [3]	**64762-884-500**	2CKA006800A2968	1
black matt [3]	**64762-885-500**	2CKA006800A2970	1

Product	Article-No.	Order-No.	Pack/Qty
	carat®		
ivory white	**64762-82-500**	2CKA006800A2960	1
anthracite	**64762-81-500**	2CKA006800A2958	1
studio white	**64762-84-500**	2CKA006800A2964	1
studio white matt [3]	**64762-884-500**	2CKA006800A2968	1
black matt [3]	**64762-885-500**	2CKA006800A2970	1
	pure stainless steel		
stainless steel	**64762-866-500**	2CKA006800A2973	1
	Busch-dynasty®		
anthracite	**64762-81-500**	2CKA006800A2958	1
ivory white	**64762-82-500**	2CKA006800A2960	1
antique brass [3]	**64762-840-500**	2CKA006800A2971	1
	basic 55		
white	**64762-92-507**	2CKA006800A2978	1
champagne [3]	**64762-93-507**	2CKA006800A2979	1
alpine white	**64762-94-507**	2CKA006800A2980	1
château-black	**64762-95-507**	2CKA006800A2981	1
chalet-white	**64762-96-507**	2CKA006800A2982	1

[1] Please order the respective flush-mounted insert separately.
[2] The range specifications refer only to an ambient temperature of 21°C.
[3] Surface painted.

Movement detector

Busch-Watchdog presence inserts

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flex, comfort sensor [1] [2] with multi-lens** Movement detector sensor with with measurement of ambient light. For automatic switching of devices dependent on motion and brightness. Push switch function possible at all times. For detection down to the floor. For detection in stairwells. With 4 detection levels. In combination with dimmer insert flex: dimming function of lighting and selectable light value storage. With enabling of pre-warning of switch-off for stairwell operation. Compatible with all free@home flex inserts. Adjusting elements on rear side. Multi-lens: suitable also for mounting heights of 2.20 m. Extension of the detection range by means of master/slave combination. Additional activation/deactivation option via push-button input on the flush-mounted insert. With continuous light/continuous Off function. With detection display in test mode. Surveillance density: 54 sectors with 224 switching segments. Switch-off delay: approx. 10 sec - 30 min or short-time pulse 1 sec adjustable. For relay insert flex, 1gang, 64811 U. For e-contact insert flex, 1gang, 64814 U. For series relay insert flex, 2gang, 64821 U. For LED touch dimmer insert flex, 1gang, 64851 U. For extension insert flex, 64891 U. Mounting height: 31 mm. Control element: 2 controllers for setting the brightness switching threshold and switch-off delay. Detection range: frontal: 8 m, lateral: 7 m, Mounting height: 1.1 m Detection range 2: frontal: 8 m, lateral: 8 m, Mounting height: 2.2 m Detection angle: 180 ° Brightness limit value: 5 Lux - 500 Lux Up to daytime operation Mounting height: 0.8 m - 1.2 m alternative: 2.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 63 mm x 63 mm x 45 mm		
	future® linear		
anthracite	**64764-81-500**	2CKA006800A2995	1
ivory white	**64764-82-500**	2CKA006800A2997	1
aluminium silver [3]	**64764-83-500**	2CKA006800A2999	1
studio white	**64764-84-500**	2CKA006800A3001	1
studio white matt [3]	**64764-884-500**	2CKA006800A3005	1
black matt [3]	**64764-885-500**	2CKA006800A3007	1
	solo®		
ivory white	**64764-82-500**	2CKA006800A2997	1
studio white	**64764-84-500**	2CKA006800A3001	1
grey metallic [3]	**64764-803-500**	2CKA006800A3003	1
	Busch-axcent®		
anthracite	**64764-81-500**	2CKA006800A2995	1
aluminium silver [3]	**64764-83-500**	2CKA006800A2999	1
studio white	**64764-84-500**	2CKA006800A3001	1
studio white matt [3]	**64764-884-500**	2CKA006800A3005	1
black matt [3]	**64764-885-500**	2CKA006800A3007	1
grey metallic [3]	**64764-803-500**	2CKA006800A3003	1

Product	Article-No.	Order-No.	Pack/Qty
	carat®		
anthracite	**64764-81-500**	2CKA006800A2995	1
ivory white	**64764-82-500**	2CKA006800A2997	1
studio white	**64764-84-500**	2CKA006800A3001	1
studio white matt [3]	**64764-884-500**	2CKA006800A3005	1
black matt [3]	**64764-885-500**	2CKA006800A3007	1
	pure stainless steel		
stainless steel	**64764-866-500**	2CKA006800A3010	1
	Busch-dynasty®		
antique brass [3]	**64764-840-500**	2CKA006800A3008	1
anthracite	**64764-81-500**	2CKA006800A2995	1
ivory white	**64764-82-500**	2CKA006800A2997	1
	basic 55		
white	**64764-92-507**	2CKA006800A3015	1
champagne [3]	**64764-93-507**	2CKA006800A3016	1
alpine white	**64764-94-507**	2CKA006800A3017	1
château-black	**64764-95-507**	2CKA006800A3018	1
chalet-white	**64764-96-507**	2CKA006800A3019	1

[1] Please order the respective flush-mounted insert separately.
[2] The range specifications refer only to an ambient temperature of 21°C.
[3] Surface painted.

	**Comfort switch sets** Ready-to-install movement detector push-button switch combination (set packaging). Consisting of relay insert flex, 1gang, 64811 U. Consisting of future® linear cover frames, 1gang 1721-184K. The range specifications refer only to an ambient temperature of 21°C. Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete).		
	64765 UJ-84-500	2CKA006800A2914	–

	**Busch-Watchdog 180 flex [1] [2]** **Complete set with Basic sensor select-lens and relay insert** Ready-to-install movement detector for flush-mounted installation (set packaged). Consisting of Busch-Watchdog 180 flex, basic sensor. Consisting of relay insert flex, 1gang, 64811 U. Consisting of future® linear cover frames, 1gang 1721-184K. Rated voltage: 230 V~, +10 % / -10 %. Rated frequency: 50 Hz. Inputs: 1 Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V- LEDi, typical. Rated power: 300 VA Suitable for: 230 V incandescent lamps/230 V halogen lamps Rated power: 2300 W Suitable for: Low voltage halogen lamps that are operated via transformers. Rated power: 2300 VA. Detection range: frontal: 12 m, lateral: 12 m, Mounting height: 1.1 m Detection angle: 180°. Brightness limit value: 5 Lux - 500 Lux Up to daytime operation. Mounting height: 0.8 m - 1.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 80 mm x 80 mm x 48 mm Mounting depth: 25 mm		
studio white	**64761 UJ-84-500**	2CKA006800A2951	1

[1] The range specifications refer only to an ambient temperature of 21°C.
[2] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

Movement detector

Busch-Watchdog presence inserts

Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flex [1] [2]** **Complete set with Comfort sensor select lens and relay insert** Ready-to-install movement detector for flush-mounted installation (set packaged). Consisting of Busch-Watchdog 180 flex comfort sensor with select lens. Consisting of relay insert flex, 1gang, 64811 U. Consisting of future® linear cover frames, 1gang 1721-184K. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 1 Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V- LEDi, typical. Rated power: 300 VA Suitable for: 230 V incandescent lamps/230 V halogen lamps Rated power: 2300 W Suitable for: Low voltage halogen lamps that are operated via transformers. Rated power: 2300 VA Detection range: frontal: 12 m, lateral: 12 m, Mounting height: 1.1 m Detection angle: 180 ° Brightness limit value: 5 Lux - 500 Lux Up to daytime operation Mounting height: 0.8 m - 1.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 80 mm x 80 mm x 48 mm Mounting depth: 25 mm		
studio white	**64762 UJ-84-500**	2CKA006800A2988	1

[1] The range specifications refer only to an ambient temperature of 21°C.
[2] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

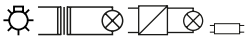
Product	Article-No.	Order-No.	Pack/Qty
	**Busch-Watchdog 180 flex [1] [2]** **Complete set with Comfort sensor multi-lens and relay insert** Ready-to-install movement detector for flush-mounted installation (set packaged). Consisting of Busch-Watchdog 180 flex comfort sensor with multi-lens. Consisting of relay insert flex, 1gang, 64811 U. Consisting of future® linear cover frames, 1gang 1721-184K. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz Inputs: 1 Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V- LEDi, typical. Rated power: 300 VA Suitable for: 230 V incandescent lamps/230 V halogen lamps Rated power: 2300 W Suitable for: Low voltage halogen lamps that are operated via transformers. Rated power: 2300 VA Detection range: frontal: 8 m, lateral: 7 m, Mounting height: 1.1 m Detection range 2: frontal: 8 m, lateral: 8 m, Mounting height: 2.2 m Detection angle: 180 ° Brightness limit value: 5 Lux - 500 Lux Up to daytime operation Mounting height: 0.8 m - 1.2 m alternative: 2.2 m Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 80 mm x 80 mm x 57 mm Mounting depth: 25 mm		
studio white	**64764 UJ-84-500**	2CKA006800A3025	1

[1] The range specifications refer only to an ambient temperature of 21°C.
[2] Only in conjunction with standard flush-mounting boxes according to DIN 49073, erect or Busch-Jaeger No. 3040 wallbox stonework, 3050 wallbox cavity wall or 3060 wallbox concrete)

	**RC suppressor** For protection against the damage or destruction of electronic devices due to overvoltages. For wiring network-interconnected inductivities (e.g.. relay, protection, fluorescent lamps, transformers, etc.). Eliminates functional disturbances on electronic devices, e.g. automatic circuit reclosure (clocking) of a movement detector. Dimensions: diameter 25 mm, length 35 mm, length of the connecting cable approx. 100 mm. Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz		
	6899	2CKA006899A0231	10

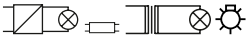
Movement detector

Proximity switch

Product	Article-No.	Order-No.	Pack/Qty
	**Proximity switch** 3 wire connection (neutral conductor required). Relay insert with proximity sensor. For contactless ON/OFF switching of electric loads, e.g. lights. For switching incandescent lamps, 230 V tungsten halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are actuated via transformers. Switches when detecting an approach at < approx. 5 cm. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Rated voltage: 230 V~, +10 % / -10 % Rated frequency: 50 Hz - 60 Hz Outputs: 1x Normally open contact, potential-bound Suitable for: 230 V incandescent lamps, 230 V halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are operated via transformers. Rated current: 10 AX Rated power: 2300 W/VA Temperature range (Device): -25 °C to 55 °CBritish Standard EN 60669-2-1 		
	6406 U	2CKA006400A0034	1

	Cover plate **Proximity switch** For proximity switch 6406 U.		
	future® linear		
anthracite	**6476-81**	2CKA006470A0007	1/10
ivory white	**6476-82**	2CKA006470A0003	10
aluminium silver [1])	**6476-83**	2CKA006470A0008	10
studio white	**6476-84**	2CKA006470A0004	10
studio white, matt [1])	**6476-884**	2CKA006470A0010	10
black matt [1])	**6476-885**	2CKA006470A0011	10
	solo®		
ivory white	**6476-82**	2CKA006470A0003	10
studio white	**6476-84**	2CKA006470A0004	10
grey metallic [1])	**6476-803**	2CKA006470A0006	10
	Busch-axcent®		
anthracite	**6476-81**	2CKA006470A0007	1/10
studio white	**6476-84**	2CKA006470A0004	10
black matt [1])	**6476-885**	2CKA006470A0011	10
	carat®		
anthracite	**6476-81**	2CKA006470A0007	1/10
ivory white	**6476-82**	2CKA006470A0003	10
studio white	**6476-84**	2CKA006470A0004	10
	pure stainless steel		
stainless steel	**6476-866**	2CKA006470A0009	10

[1]) Surface painted.

Product	Article-No.	Order-No.	Pack/Qty
	**Twilight switch [1]) [2])** With labelling field. Labelling field 57.8 x 9.8 mm Switch-on/switch-off delay: approx. 3-6 min non-adjustable. Rated voltage: 230 V~ Rated frequency: 50 Hz Rated current: 16 AX Rated power: 3680 W/VA Brightness limit value: 3 Lux - 500 Lux nominal Protection class (Device): IP 44 Temperature range (Device): -35 °C to 55 °C Dimensions: (L x W x D): 83 mm x 74 mm x 55 mm 		
grey	**2240 W-53**	2CKA006500A0791	1/10
alpine white	**2240 W-54**	2CKA006500A0792	1/10

[1]) For compatible lettering software, visit www.BUSCH-JAEGER-labelingtool.com.
[2]) Labelling strip non-illuminable.

Notes

Electrical installation solutions for buildings
Installation materials

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Surface mounted boxes	12/8
ABB Plug & Play	12/10

Installation materials

ABB installation materials are continuously developed in cooperation with installers, paying close attention to easy and quick installation, high quality and reliability. They are designed to be compatible with each other and suitable for different installation situations and building methods.

ABB installation materials are:



- **Future oriented.**
  Offering customized solutions, following trends and future requirements for building constructions like prefabrication and modularity, supported by BIM models.



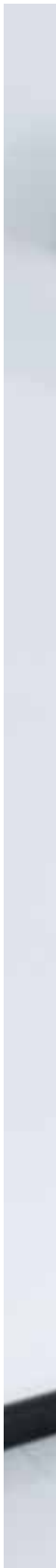
- **Environmentally friendly.**
  Choosing the materials with minimal environmental impact, minimizing waste and managing product environmental data in a transparent way.



- **Well documented.**
  The right information always easily available for each customer. Products are fully documented including ETIM data supporting digital sales.

Advantages of ABB installation materials:

- **Wide choice** of installation materials, meeting different worldwide requirements and installation habits.
- **Efficient, easy and fast installation.** Products are easy and fast to install and they enable efficient installation of wiring accessories and KNX products. Effective project execution brings overall cost-efficiency.
- **Reliable connections** in hollow, concrete and stone structures. Faulty installations are expensive and difficult to fix. Therefore we put effort in ensuring that the connections are reliable.
- **Quality material with specific properties used.** Material properties are selected to withstand demanding environments like fire, high temperature variations, frost, rain, etc.
- **Environmentally friendly.** Products are halogen free.
- **Safety.** Installation materials are designed to meet the highest requirements in regard to health and safe operation.
- **Special applications available.** Special applications to fire retardant walls and exterior walls (airtight solutions) are available.
- **Innovation based on cooperation with a customers and their needs**





Installation materials
A comprehensive offering

Conduits and accessories

Piping materials and accessories are developed to work as a system with ABB installation boxes and are easy to adapt to different installations. The piping materials ensure a safe and cost-efficient installation. Product range offers great variety of products as conduit extensions and adaptors, conduit bends, conduit end pieces and sleeves and accessories for concrete casting applications. Product colour coding helps customers to choose easier the right accessory size.



Conduit extensions and adaptors



Conduit bends



Concrete casting accessories



Conduit end pieces and sleeves



Other conduit accessories

Installation materials
A comprehensive offering

Flush mounted boxes

A wide variety of flush mounted junction and installation boxes, accompanied with accessories, helps installers work in an efficient and flexible way. The customer will find a suitable solution for any type of building or wall: brick or solid walls, various hollow or dry walls. Special solutions like for fire retardant walls or air tight and sound proof walls are also available (complying with relevant standards). The products are made of high quality halogen free plastic materials.

Hollow wall boxes



HW52-F



HW252-F



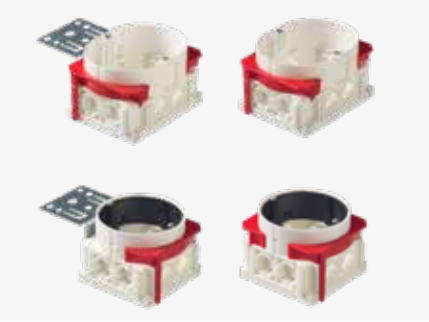
3050-H



System Ideal



System ABB



Nordic smart boxes



AUS74 front mounted boxes range

Installation materials
A comprehensive offering

Hollow wall boxes for special applications



HW52-F BW
Fire retardant



HW252-F
Fire retardant



BWCV165B
Fire retardant ceiling box



HW52F-IGD
Soundproof and airtight insert for HW52-F



HW252-F IGD
Soundproof and airtight insert for HW252-F



HW252-F IGD BW
Soundproof, airtight and fire retardant insert for HW52-F

Solid (brick) wall boxes



MD4050



DD-12
RFID detector



3040-U

Concrete boxes

Concrete boxes used in precast concrete constructions as well as on site casting with moulds



C80r-16/19



C60



PMK80



MGD50



G153



G251



AU5.2



AU8.73

DCL Lighting outlets EN61995





Installation materials
A comprehensive offering

Surface mounted boxes

Discover growing portfolio of ABB surface mounted junction boxes for different types of applications. Boxes come in different shapes, sizes and IP ratings to match to each application requirement. Different colours of AP9 boxes can be used to improve the overview of different installations (e.g. green boxes for KNX, red boxes for fire or alarm systems etc.). The surface mounted box solutions are fast and reliable in all conditions.

Indoors



AP6



AP12



4206-D



4201-D



3611



3611W2



3611GB4



3640-D



3640W4

Indoors



3640W2-G



3640GB33

Outdoors or wet spaces



AP7



AP75



3665



AP9



AP10

Special applications



KM8/16
Cable joint for underground use

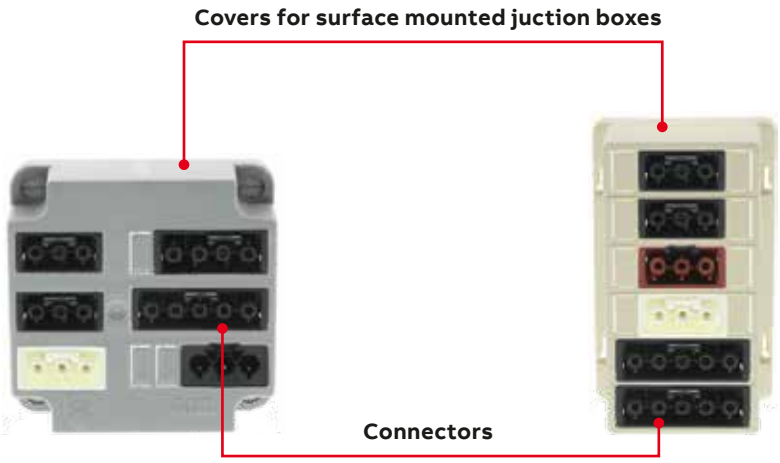
Installation materials
ABB Plug & Play

ABB Plug & Play is a concept that conveys convenience, efficiency, speed and time savings. Standard ABB products are re-configured to a customer's specification, ready for installation; Plug & Play.

A smart combination of boxes, wiring accessories and covers with plug & play connectors guarantees efficient, quick and highly reliable installation.

Through all the preparations in the design phase and the assembly of parts by ABB, the installation will be effortless and at lightning speed.

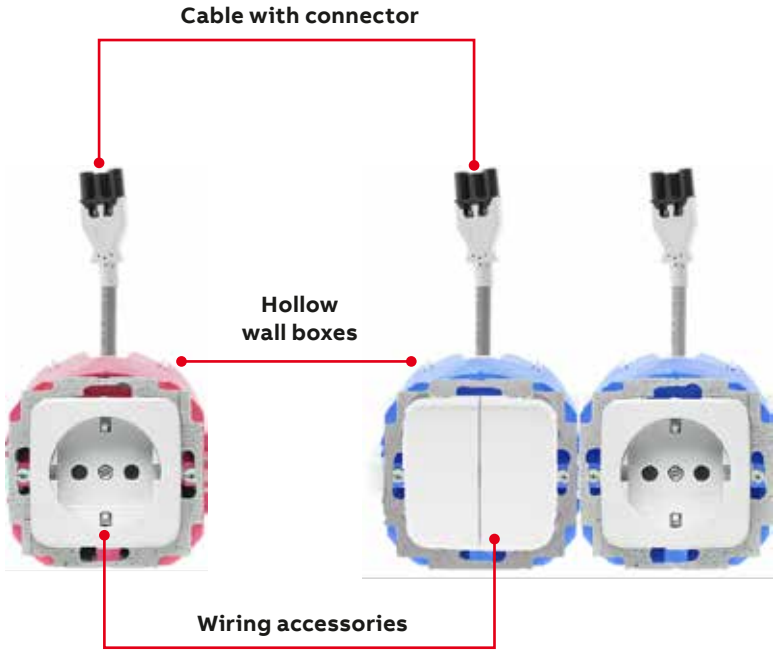
Examples:







Installation materials
ABB Plug & Play



We listen to our customers. We develop and improve our products together with our customers to meet their needs and special requirements. Contact us and tell us your demand.

SE-installationmaterials@abb.com



Notes

Electrical installation solutions for buildings
Digital Services

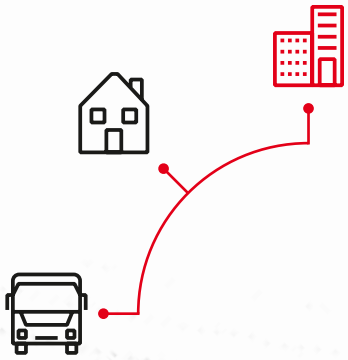
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You may also visit our MyBuildings portal under mybuildings.abb.com

Digital Services

Powerful digital solutions in a single portfolio



Shaping the future of the digital world today requires fully automated solutions that can be networked with all other intelligent devices.

MyBuildings portal powered by ABB Ability™

Controlling and planning smart buildings is now easier than ever: ABB bundles its digital services for Smarter Home and Building in the MyBuildings portal (formerly my.abb-livingspace.com) under the ABB Ability™ umbrella. The online portal gives you access to many of ABB's tools and services that you can use for your individual needs. You have the option to configure KNX systems, fire alarm technology, door entry system or ABB-tacteo KNX as well as to extend system functionality with remote access or Amazon Alexa voice control. You can also connect your smart system to a mobile device.

Digital Services

Plan, configure and modify as desired with the MyBuildings portal powered by ABB Ability™

—
Planning und configuration

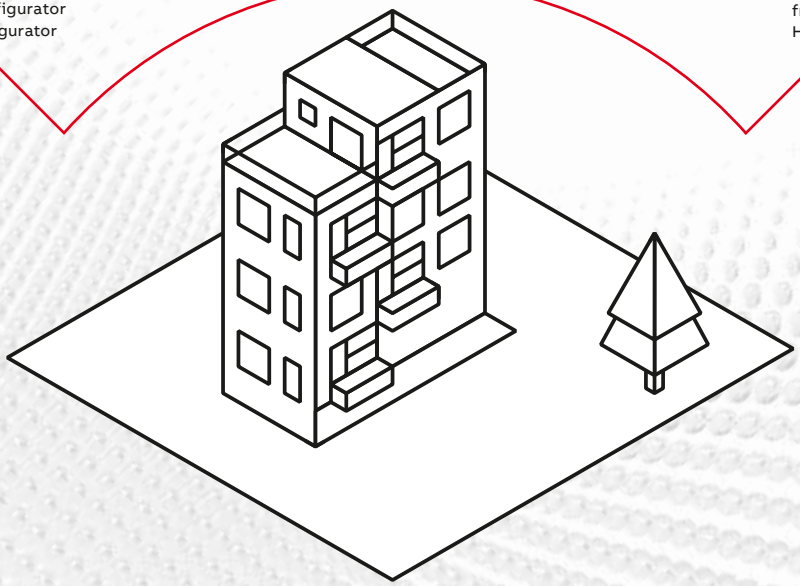
ABB-Welcome configurator
ABB-Terminal configurator
ABB-tacteo configurator
ABB-Smart Home configurator
ABB-Welcome IP configurator

—
Commissioning

Busch-ControlTouch®
Remote access
free@home Alexa voice control
Busch-VoiceControl®

—
Operation

Remote access
free@home Alexa voice control
Notifications
free@home home
appliance integration
(Miele and Home Connect)
free@home Google
Home integration



A central contact point for Smarter Building services.

Global availability of ABB services.

24/7 monitoring for best worldwide availability.

Regular cyber security: audits and tests by independent third parties.

Digital Services

Remote Access, Home Appliances Integration and Cloud-backup



ABB-free@home
MyBuildings enables you to check on your ABB-free@home system from anywhere in the world. You can check the status, control functions, and you get notifications in case of events that you can define. All you need is a MyBuildings portal Account and a remote access subscription.

ABB-Welcome
You can also open the door from anywhere in the world to let in the maid or the post delivery man. This way you wont miss a package one more time. All you need is the IP Gateway and a MyBuildings portal Account.

Integration of Home Appliances
The MyBuildings portal allows the easy integration of Smart-Home-capable devices from Miele and Home Connect in ABB-free@home easily. All supported devices appear in the free@home app and the ABB-free@home panel and the main functions can be directly controlled via the wall-mounted pushbuttons.



Digital Services

Configuration and Commissioning

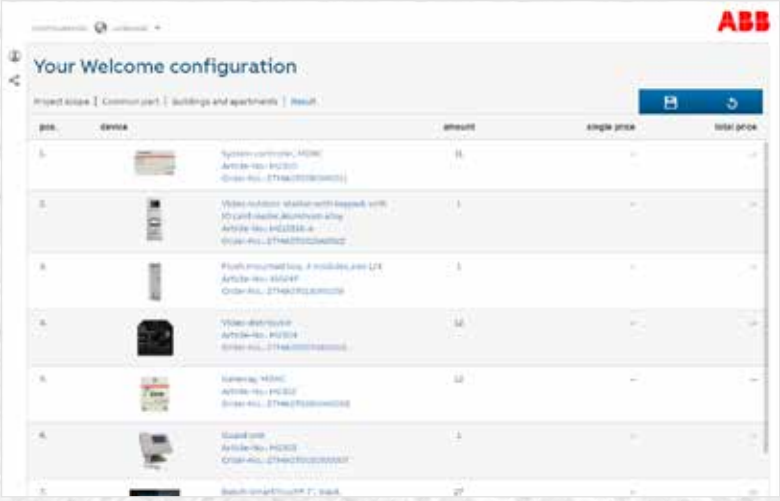
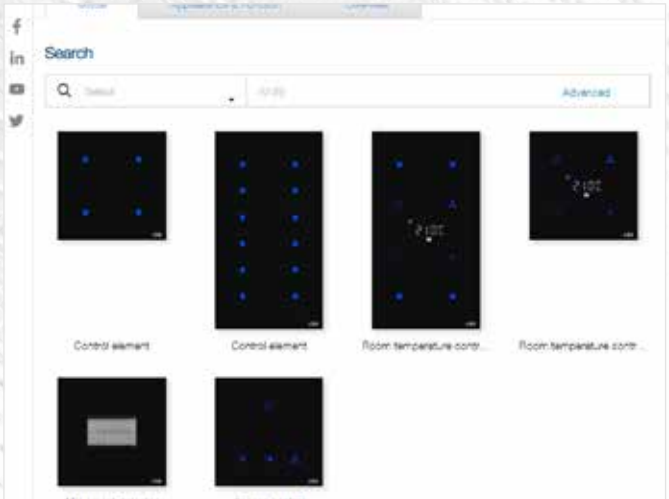
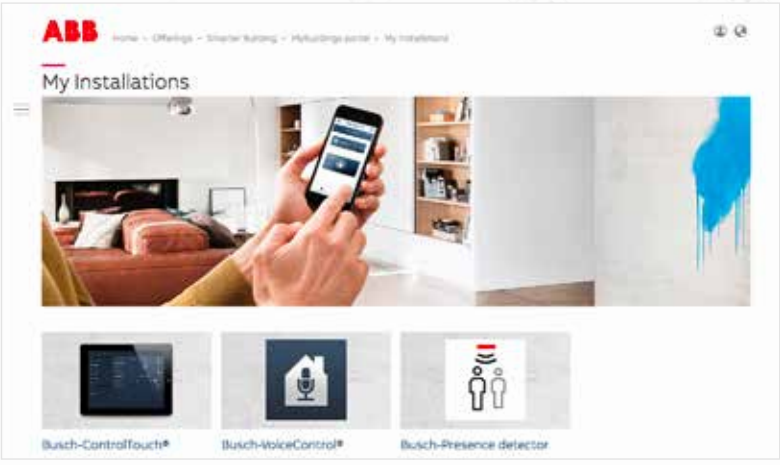


ABB-Welcome Configurator
Planning a door entry system for a residential compound with hundreds of apartments does not have to be difficult. The ABB-Welcome Configurator applies all the planning rules for you. You just need to tell him what you want and need.

ABB-tacteo Configurator
You can configure your individual ABB-tacteo KNX Sensor with the ABB-tacteo configurator. The freedom of planning with KNX is now also reflected on your glass touch sensors on your wall – because every function and scene is unique.





Commissioning through the MyBuildings portal
Via MyBuildings portal you can easily and securely set up remote access for instance to your ABB Smart Home System, set up ABB-free@home Alexa voice control or start the Busch-ControlTouch commissioning.

Digital Services
Services

Remote Access and Notification
Sign up to the MyBuildings Portal to get secure Remote Access to your ABB smart home and smart building system. Check the status, control functions and receive notifications in case of events, which you can define. With a connected ABB-Welcome system see live streams from outdoor stations and open the door from anywhere in the world.

User Account	Price	Available for	URL
required	Subscription needed Trial period available Free of charge for ABB-Welcome	ABB-free@home Busch-ComfortTouch Busch-ControlTouch ABB-Welcome ABB-Welcome IP ABB-VideoControl	mybuildings.abb.com

* The function is currently not available and will be activated later.

Digital Services
Services

Voice Assistant and Home Appliance Integration
The MyBuildings portal allows easy integration of voice assistant devices and home appliances to your ABB smart home and smart building system. Control smart home and building functions via voice and integrate home appliances to push-buttons, wall-mounted panels, groups or scenes.

User Account	Price	Available for	URL
required	Integration of voice assistant is free-of-charge Integration of home appliance is free-of-charge	ABB-free@home (Amazon Alexa, Miele, HomeConnect) free@home Google Home integration Busch-VoiceControl (Amazon Alexa, Apple HomeKit, Google Assistant)	mybuildings.abb.com

Cloud backup
The new presence detectors come with an App for easier commissioning. The MyBuildings portal allows you to save a backup of your settings so can always access certain configurations, even after change of phones or operating systems (e.g. from Android to iOS). MyBuildings portal makes it possible not only the transmission of the device profiles and data of the app to a new smartphone, but also to additional terminal devices.

User Account	Price	Available for	URL
required	free of charge	Busch-Presence detectors	mybuildings.abb.com

Remote Commissioning
Via MyBuildings portal you can easily and securely set up remote access for instance to your ABB Smart Home System, set up ABB-free@home Alexa voice control or start the Busch-ControlTouch commissioning.

User Account	Price	Available for	URL
required	free of charge	Busch-ControlTouch Busch-VoiceControl	mybuildings.abb.com

Digital Services
Configurators

ABB-Welcome
Planning a door entry system for a residential compound with hundreds of apartments does not have to be difficult. The ABB-Welcome Configurator applies all the planning rules for you. You just need to tell him what you want and need.

User Account	Price	URL	Supported Device
not required	free of charge	welcome-configurator.mybuildings.abb.com	iOS and Android tablets and desktop computers

Firealarm system
The firealarm configurator applies all planing rules for you. Just draw the layout of your building and the configurator tells you where smoke detectors should be placed and how many you'll need.

User Account	Price	URL	Supported Device
not required	free of charge	firealarm-configurator.eu.mybuildings.abb.com	iOS and Android tablets and desktop computers

ABB-tacteo
You can configure your individual ABB-tacteo KNX Sensor with the ABB-tacteo configurator. The freedom of planning with KNX is now also reflected on your glass touch sensors on your wall – because every function and scene is unique.

User Account	Price	URL	Supported Device
required for ordering	free of charge	tacteo-configurator.mybuildings.abb.com	iOS and Android tablets and desktop computers

Terminal
Plan and configure your project with classical wiring accessories, KNX or free@home with the terminal configurator by ABB

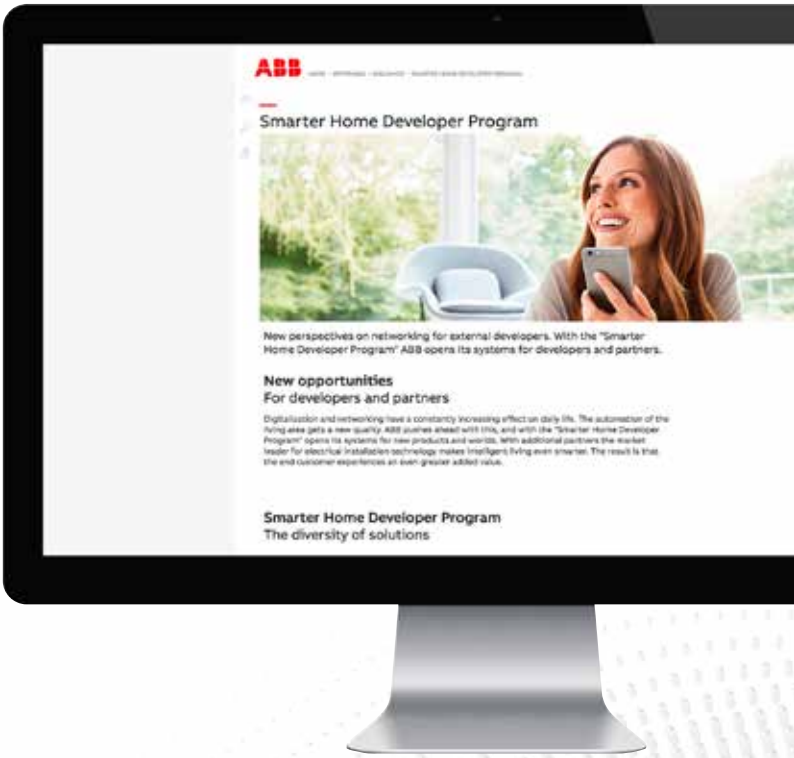
User Account	Price	URL	Supported Device
not required	free of charge	terminal.mybuildings.abb.com	iOS and Android tablets and desktop computers

Notes

Digital Services
Smarter Home Developer Program

Living is becoming even smarter

ABB's cooperation with renowned partners offers extensive solutions and great added value.



Smarter Home Developer Program

To enable customers to choose from an even greater variety of products in the future, ABB has created the "Smarter Home Developer Program" for developers. The program combines ABB's core offering with solutions from external partners. This enables planners and electricians to equip smart residential buildings with a diverse range of components from different manufacturers and to operate them centrally using ABB products. As an interface for networking, ABB offers application programming interfaces (API).

- Easy and quick integration of your products and services with the ABB product and service portfolio
- Marketing visibility
- Access to households with integrated smart home solutions
- Opportunities to discuss joint offerings with ABB
- Global reach using the smart home portfolio of the two brands Busch-Jaeger and ABB

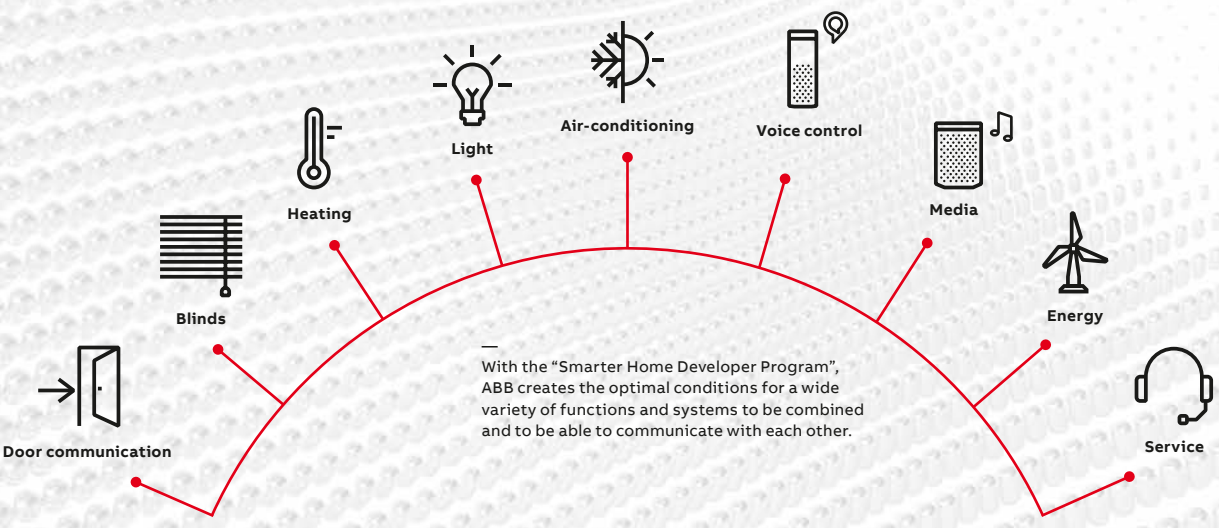
—
https://developer.eu.mybuildings.abb.com/

Digital Services

Smarter Home Developer Program



ABB-free@home® API
The API for ABB-free@home® allows manufacturers and service providers to integrate data from ABB's Smart Home system into their own program and vice versa.



With the "Smarter Home Developer Program", ABB creates the optimal conditions for a wide variety of functions and systems to be combined and to be able to communicate with each other.

Notes

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ABB i-bus® KNX

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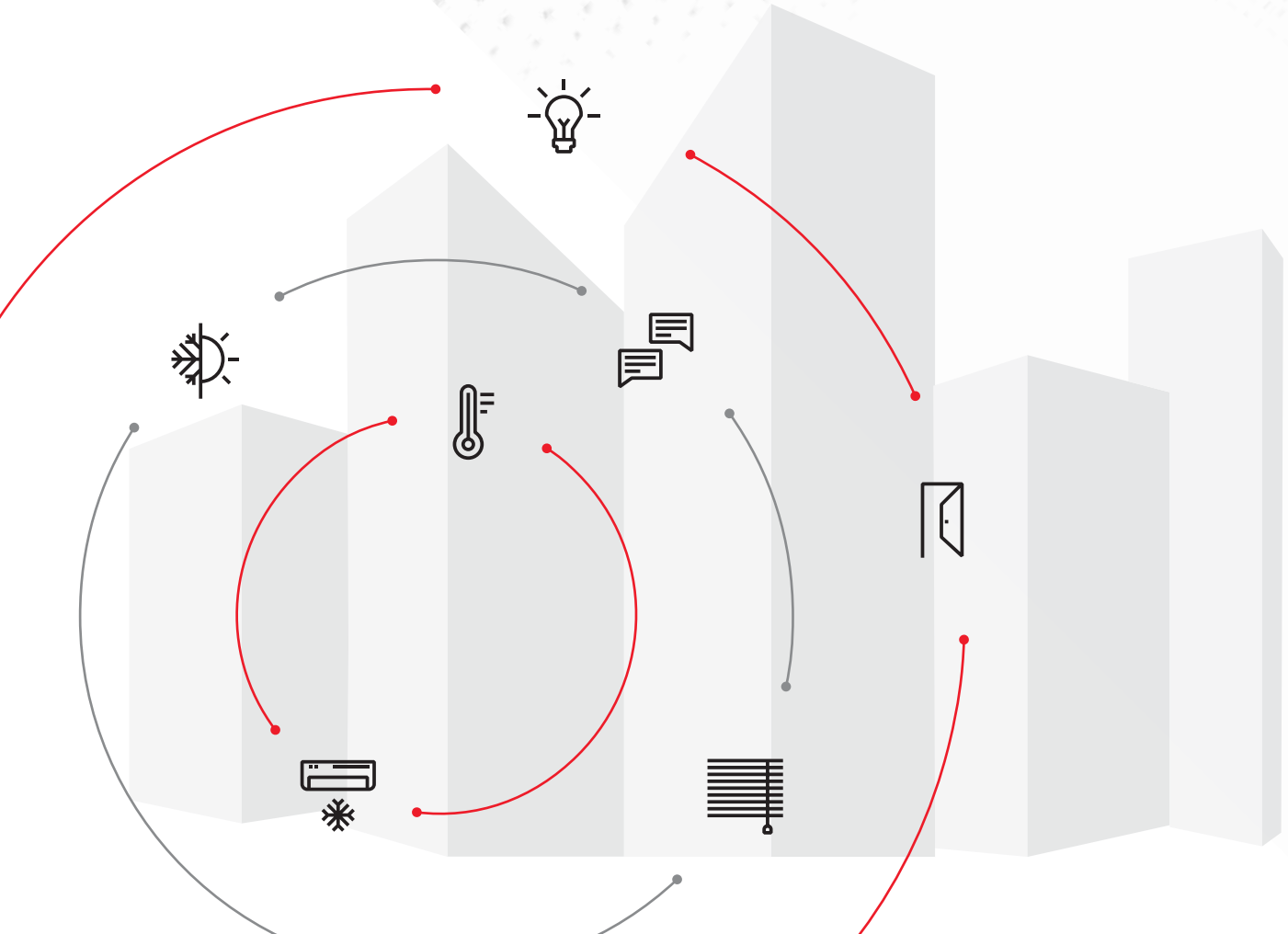
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You may also visit our KNX website:

www.abb.com/knx

CONNECTIVITY

Shaping the future of the digital world today requires fully automated solutions that can be networked with all other intelligent devices.





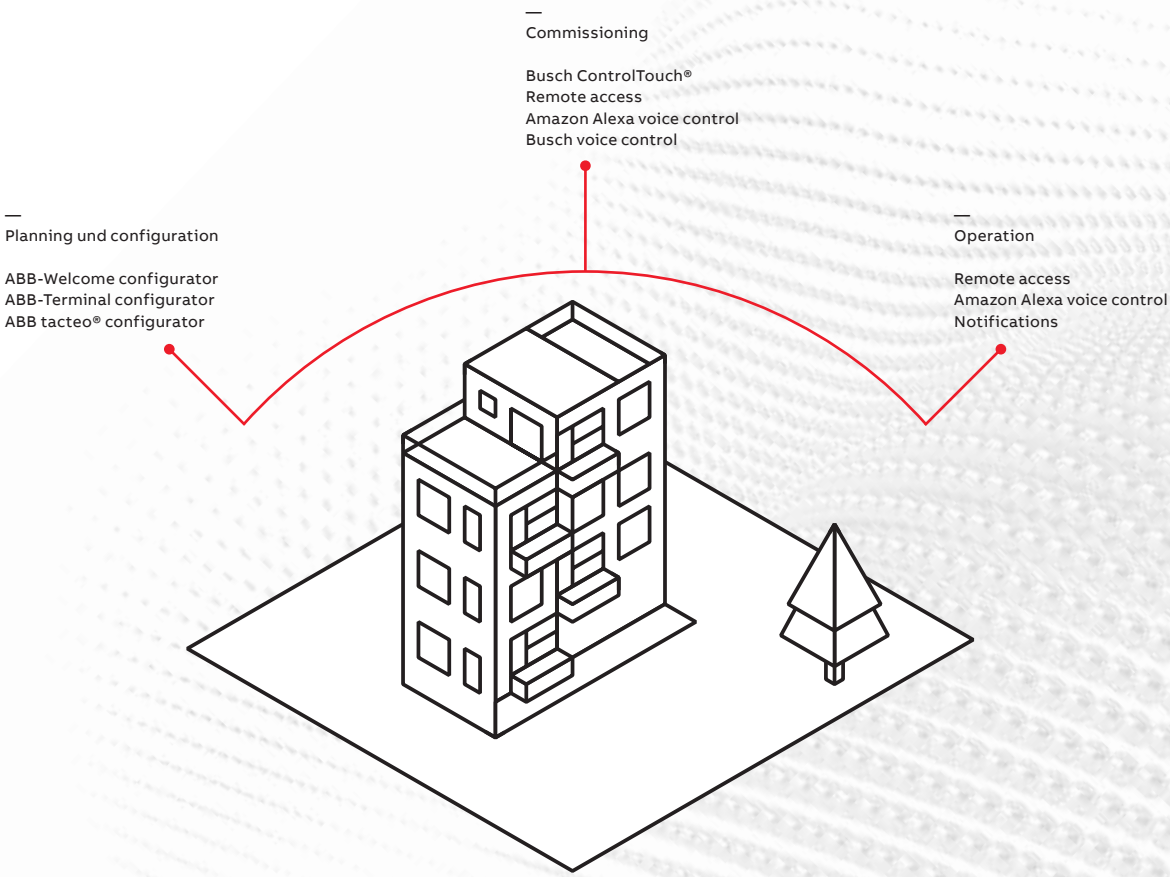
Powerful digital solutions in a single portfolio

MyBuildings portal powered by ABB Ability™

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You may also visit our MyBuildings portal under mybuildings.abb.com:

Plan, configure and modify as desired with the MyBuildings portal powered by ABB Ability™



A central contact point for Smarter Building services.

Global availability of ABB services.

24/7 monitoring for best worldwide availability.

Regular cyber security: audits and tests by independent third parties.

ABB i-bus® KNX – Service & Support Tools

For a fast and intuitive self-support in your daily work

ABB provides a wide range of tools to enable an uncomplicated and time-saving support for many of your concerns. Below you can find some tools which helps you during configuration and commissioning of your i-bus® KNX installation.

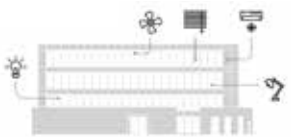


ABB i-bus® Tool

A professional service tool which supports system integrators during commissioning and service of KNX installations. For more information and to download the tool have a look on the linked website.

Visit our website

ABB Update Copy Convert

The ETS app Update Copy Convert provides a series of useful functions for ETS applications and device configuration (parameters and group addresses) in an ETS project.

The functions are:

- Update: Changes the application program to a later or earlier version while retaining current configurations.
- Convert: Transfers/adopts a configuration from an identical or compatible source device.
- Channel Copy: Copies a channel configuration to other channels on a multichannel device.
- Channel Exchange: Exchanges configurations between two channels on a multichannel device.
- Import/Export: Saves and reads device configurations as external files.

Download the app

Firmware Update 2.0

With this ETS app you are able to updating the firmware of your device directly via the KNX bus. The app can be used with the ETS5 or higher.

Download the app

For more tools visit our Building & Home Automation Solutions Tooling Overview

ABB i-bus® KNX

Overview



Energy consumption measurement	- Energy Analyzer - Energy Meter with Meter Interface Module - Energy Module
Switch energy with and without current detection	- Switch Actuator
Switch energy with energy measurement	- Energy Actuator - Switch Actuator with Energy Function
Switch, dim and control light	- Universal Dim Actuator - Switch/Dim Actuator 1–10 V - Light Controller
Digital lighting control using DALI	- DALI Gateway - DALI Light Controller
Control of shutters, blinds and ventilation flaps with and without automatic travel time detection	- Blind/Roller Shutter Actuator - SMI Blind/Roller Shutter Actuator
Heating/cooling via valve control	- Holistic HVAC solution ClimaECO - Valve Drive Actuator - Electromotor Valve Drive - FAN Coil Controller - Central HVAC Controller
Ventilation/climatization	- Blower Actuator - Fan Coil Controller
Room solutions with integrated sensor and actuator functions	Room Master devices with different combinations of inputs and outputs and internal logical connections Room Controller with functional modules

KNX-Main Line/TP

- 64 devices/line
- 15 lines/area with superordinated main line
- max. 15 areas with superordinated area line

Line 1 2 3 4 ... ... 13 14 15

Power Supply



Line Coupler

- Binary Input



Detect and evaluate switching commands

- Analogue Input



Capture, evaluate and monitor physical values

- Weather Station and Weather Sensor



Evaluate and monitor meteorological data (wind, temperature, rain, etc.)



Remote control via internet

Display operating conditions and control functions

- Presence Detector
- Movement Sensor
- Light Sensor



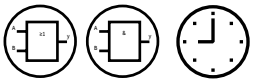
Lighting Control

Detect presence and movement

Measure brightness levels

- Logic Module
- Application Unit Logic
- Application Unit Time
- Time Switch





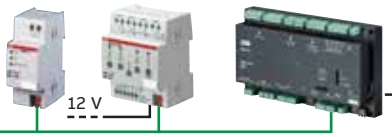
Perform logical operations and trigger timer-controlled functions

- Room Thermostat
- Air Quality Sensor



Capture, evaluate, monitor and control room conditions, temperature, air quality, etc.

- Security Terminal
- Security Module
- KNX Security Panel
- Fault Monitoring Unit
- Monitoring Unit
- Data Logging Unit



12 V

Security System

Monitor operating conditions, signal technical faults, recognize hazards and trigger alarms

- Room outside sensor with card reader
- Transponder Card
- Configuration Software



Access Control system for hotel rooms

ABB i-bus® KNX

Power Supply

	Standard			Diagnostic		Uninterruptible
	SV/S 30.160.1.1	SV/S 30.320.1.1	SV/S 30.640.3.1	SV/S 30.320.2.1	SV/S 30.640.5.1	SU/S 30.640.2
General						
Supply voltage	100 – 240 V AC (85...265 V AC)	100 – 240 V AC (85...265 V AC)	100 – 240 V AC (85...265 V AC)	100 – 240 V AC (85...265 V AC)	100 – 240 V AC (85...265 V AC)	100 – 240 V AC (210...240 V AC)
Type of installation	DIN-Rail	DIN-Rail	DIN-Rail	DIN-Rail	DIN-Rail	DIN-Rail
Module width (18 mm)	4	4	4	4	4	8
Rated current I_n	160 mA	320 mA	640 mA	320 mA	640 mA	640 mA
Rated voltage U_n	30 V DC	30 V DC	30 V DC	30 V DC	30 V DC	30 V DC
Back-up						
Mains failure back-up time without battery	200 ms	200 ms	200 ms	200 ms	200 ms	200 ms
Mains failure back-up time with new, fully charged battery up to	–	–	–	–	–	AM/S: 10 min SAK7: 2.5 h 2 x SAK7: 5 h 2 x SAK12: 11 h 2 x SAK7: 16 h
Choke						
Integrated choke	■	■	■	■	■	■
Extra Voltage output without choke (30 V DC)	–	–	■	–	■	–
Operation and indication						
Short-circuit and overload indication	■	■	■	■	■	■
Output voltage indication	■	■	■	■	■	■
Overload indication	■	■	■	■	■	■
Bus current indication	–	–	–	■	■	–
Telegram traffic indication	–	–	–	■	■	–
Communication error indication	–	–	–	■	■	–
Bus reset button and indication	–	–	–	■	■	–
Mains voltage indication	■	■	■	■	■	■
Battery voltage indication	–	–	–	–	–	■
Reporting						
Floating contact for fault reporting	–	–	–	–	–	■
Commissioning and diagnostic functions						
Control and diagnosis via ABB i-bus® Tool	–	–	–	■	■	–

■ = Function is supported

– = Function is not supported



SV/S 30.160.1.1

Power Supply, 160 mA, MDRC

KNX power supplies generate and monitor the KNX system voltage (SELV). The bus line is decoupled from the power supply by an integrated choke.
The voltage output is short-circuit and overload protected.
The two-color LED indicates device output status. With two-coloured status indicator and wide range input from 85…265 V AC, 50/60 Hz.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	SV/S 30.160.1.1	2CDG110144R0011		0.30	1



SV/S 30.320.1.1

Power Supply, 320 mA, MDRC

KNX power supplies generate and monitor the KNX system voltage (SELV). The bus line is decoupled from the power supply by an integrated choke.
The voltage output is short-circuit and overload protected.
The two-color LED indicates device output status.
With two-coloured status indicator and wide range input from 85…265 V AC, 50/60 Hz.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	SV/S 30.320.1.1	2CDG110166R0011		0.30	1



SV/S 30.640.3.1

Power Supply, 640 mA, MDRC

KNX power supplies generate and monitor the KNX system voltage (SELV). The bus line is decoupled from the power supply by an integrated choke. The voltage output is short-circuit and overload protected.
The two-color LED indicates device output status.
Device type SV/S 30.640.3.1 has an additional 30 V DC short-circuit and overload protected voltage output that can be used to power an additional bus line (in combination with a separate choke).
With two-coloured status indicator and wide range input from 85…265 V AC, 50/60 Hz.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	SV/S 30.640.3.1	2CDG110167R0011		0.30	1

ABB i-bus® KNX
Power Supply



SV/S 30.320.2.1

Power Supply with Diagnostics, 320 mA, MDRC
Compact Power Supply with integrated choke. Quick diagnostics by LED display and ETS communication objects. Analysis of the operating state and the bus line possible by means of ABB i-bus® Tool.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	SV/S 30.320.2.1	2CDG110145R0011		0.26	1



SV/S 30.640.5.1

Power Supply with Diagnostics, 640 mA, MDRC
Compact Power Supply with integrated choke. Quick diagnostics by LED display and ETS communication objects. Analysis of the operating state and the bus line possible by means of ABB i-bus® Tool. Additional voltage output to supply an additional line in conjunction with an additional choke.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	SV/S 30.640.5.1	2CDG110146R0011		0.26	1



SU/S 30.640.1

Uninterruptible Power Supply, 640 mA, MDRC **to be discontinued**
Power supply with integrated choke for supplying a bus line from an uninterrupted supply. Quick diagnostics via LED display for operational readiness, fault and battery level as well as a floating contact for a fault signal indication. The accumulator module or up to 2 rechargeable batteries can be charged in normal operation by the voltage supply. The bus voltage is provided by the batteries in the event of a mains failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	8	SU/S 30.640.1	GHQ6310049R0111		0.55	1



SU/S 30.640.2

Uninterruptible KNX Power Supply, 640 mA, MDRC **NEW**
Uninterruptible power supply 640 mA with integrated choke for supplying an ABB i-bus® KNX bus line, short-circuit- and overload-proof. LEDs to indicate the status of the bus current, mains voltage, and battery voltage. Wide range input from 85…265 V AC, 50/60 Hz. The accumulator module AM/S 12.1 or up to 2 rechargeable batteries can be charged in normal operation by the voltage supply. The bus voltage is provided utilising the batteries in the event of a mains failure.
Available July 2022

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	8	SU/S 30.640.2	2CDG110275R0011		0.40	1



AM/S 12.1

Battery Module, 12 V DC, MDRC

With lead-gel battery for use in uninterruptible power supply SU/S 30.640.2 and for maintaining the bus voltage during a mains failure for 10 minutes (at full load). Connection is made via 4-core standard cable.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	8	AM/S 12.1	GHQ6310062R0111		0.81	1



KS/K 4.1



KS/K 2.1

Cable Sets

For connection of sealed lead gel batteries SAK7, SAK12 and SAK17 to the uninterruptible KNX power supply SU/S 30.640.2 or the uninterruptible power supply NTU/S 12.2000.1.
If only one battery is connected, the basic cable set KS/K 4.1 with integrated temperature sensor is to be used. In case two batteries are connected in parallel, the basic cable set KS/K 4.1 is to be used for the first battery and the extension cable set KS/K 2.1 is to used for the second battery. It is not permitted to connect more than two batteries in parallel.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Basic	–	KS/K 4.1	GHQ6301910R0001		0.18	1
Extension	–	KS/K 2.1	GHQ6301910R0011		0.12	1



SAK17, SAK12, SAK7

Sealed Lead Acid Batteries, 12 V DC

For maintaining the bus voltage during a mains failure. For connection to the uninterruptible power supply SU/S 30.640.2 or the uninterruptible power supply NTU/S 12.2000.1.
A maximum of two batteries of the same type can be connected in parallel.
For connection, the cable sets KS/K 4.1 and KS/K 2.1 are to be used.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
7,2 Ah	–	SAK7	GHV9240001V0011		2.98	1
12 Ah	–	SAK12	GHV9240001V0012		4.66	1
18 Ah	–	SAK17	GHV9240001V0013		7.15	1



DR/S 4.1

Choke, MDRC

The device can be used together with a SV/S 30.640.5.1 or SV/S 30.640.3.1 to supply a second line. The device has a reset switch for isolating the bus voltage and resetting the bus devices connected to this line. Connection to ABB i-bus® via Bus Connection Terminal.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	DR/S 4.1	2CDG110029R0011		0.16	1

ABB i-bus® KNX
Power Supply



NTI/Z 28.30.1

Commissioning Power Supply, 28 V DC, 30 mA

For temporary power supply of KNX devices during commissioning. The Euroconnector and plug-in terminal provide faster connection and supply of devices with manual operation (e.g. FCC/S or SA/S).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	NTI/Z 28.30.1	2CDG110096R0011		0.14	1



CP-D 24/2.5

Power Supply Units, MDRC

The supply units that can be used universally as auxiliary power supply in KNX installations or other SELV applications. The devices supply a regulated output voltage of 12 V DC or 24 V DC with a maximum output current of 0.42 A up to 4.2 A. The units are protected against overload, the output being able to sustain a continuous short circuit. LED indication of the status of the supply and output voltage. With a width between one to five modules only, the CP-D range power supplies are ideally suited for the installation in distribution panels. Optimized for world-wide applications: The CP-D power supplies can be supplied with a rated voltage of 100 – 240 V AC.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
12 V DC, 0.83 A	1	CP-D 12/0.83	1SVR427041R1000		0.07	1
12 V DC, 2.1 A	3	CP-D 12/2.1	1SVR427043R1200		0.20	1
24 V DC, 0.42 A	1	CP-D 24/0.42	1SVR427041R0000		0.07	1
24 V DC, 1.3 A	3	CP-D 24/1.3	1SVR427043R0100		0.20	1
24 V DC, 2.5 A	4	CP-D 24/2.5	2CDG120037R0011		0.25	1
24 V DC, 4.2 A	5	CP-D 24/4.2	1SVR427045R0400		0.39	1
Redundancy Unit for decoupling of two CP-D power supply units	2	CP-D RU	1SVR427049R0000		0.08	1



NTU/S 12.2000.1

Uninterruptible Power Supply, 12 V DC, 2 A, MDRC

Delivers sufficient power for all types of demanding applications with a buffered output voltage of 12 V DC (SELV) and a maximum output current of 2 A. Operating malfunctions of the power supply are signalled via a changeover contact and can be sent for evaluation purposes. Up to two 12 V DC sealed lead-acid batteries (gel cell) can be connected in parallel with the power supply, in conjunction with the KS/K 4.1 and KS/K 2.1 cable sets, or the AM/S 12.1 battery module.

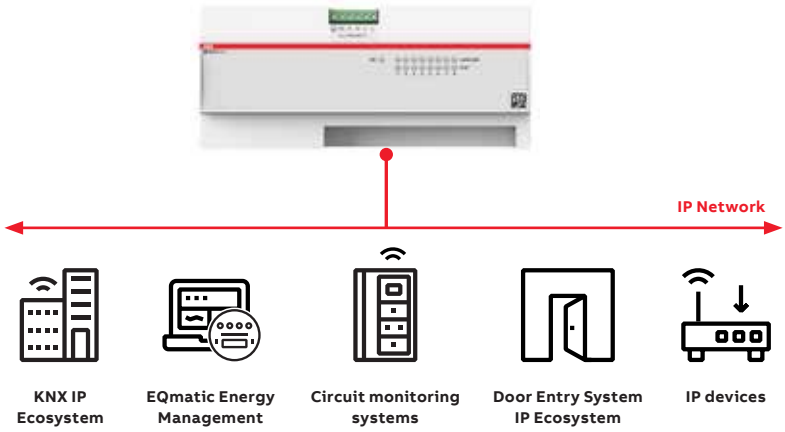
Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	8	NTU/S 12.2000.1	2CDG110070R0011		0.43	1

ABB IP switches for DIN-Rail installation

Simplifying IP connectivity inside your cabinet

The IP infrastructure plays an important role for the reliability and availability of all building functions.





The ABB IP switches are two industrial-grade, 8 Ports, Fast Ethernet, unmanaged switches (with and without PoE) designed for installation in electrical distribution boards and easy mounting on DIN-Rails.

The new ABB IP switches are suitable for all applications, segments and markets in which distribution boards with DIN-Rail devices requiring IP connectivity are used.

- **Special Design**
- **Easy Installation**
- **Compact Technology**

ABB i-bus® KNX

System Infrastructure and Interfacing

	IP Router IPR/S 3.1.1		IP Router Secure IPR/S 3.5.1	IP Interface IPS/S 3.1.1		IP Interface Secure IPS/S 3.5.1	Line Coupler LK/S 4.2	
General								
Auxiliary voltage	10...30 V DC or PoE IEEE 802.3af class 1		10...30 V DC or PoE IEEE 802.3af class 1	10...30 V DC or PoE IEEE 802.3af class 1		10...30 V DC or PoE IEEE 802.3af class 1	–	
Type of installation	DIN-Rail		DIN-Rail	DIN-Rail		DIN-Rail	DIN-Rail	
Application	IP Router/ 1.1	IP Router/ 2.0	IP Router Secure/ 1.0	IP Interface/ 1.1	IP Interface/ 2.0	IP Interface Secure/ 1.0	Couple/1.1 or Repeat/1.1	Couple Repeat/2.1
ETS	ETS 3	ETS 4/5	ETS 5	ETS 3	ETS 4/5	ETS 5	ETS 3	ETS 4/5
Software functions								
KNX Secure	–	–	■	–	–	■	–	–
Number of tunneling servers	1	5	5	1	5	5	–	–
Number of unicast connections	10	10	10	–	–	–	–	–
Monitoring of bus voltage failure	■	■	■	–	–	–	–	–
Filter Group telegrams main group 0...13	■	■	■	–	–	–	■	■
Filter Group telegrams main group 14...31	–	■ (ETS 4.1.7 or higher)	■	–	–	–	–	■
Function Repeater	–	–	–	–	–	–	■	■
Commissioning and diagnostic functions								
Control and diagnosis via ABB i-bus® Tool	■	■	■	■	■	■	■	■
Firmware update (ABB i-bus® Tool or ETS App)	■	■	■	■	■	■	–	–
Unicast parameterization (ABB i-bus® Tool)	■	■	■	–	–	–	–	–

■ = Function is supported

– = Function is not supported



LK/S 4.2

Line Coupler, MDRC

The line coupler is used in larger installations to connect KNX lines or areas. The lines or areas are galvanically isolated from one another. Telegrams can be filtered to simultaneously reduce the telegram traffic between lines or areas. With ETS 4 (V4.1.2 and higher) the complete group address range of the main groups 0...31 can be filtered. Within a line, the LK/S 4.2 can also be used as a line amplifier (repeater). The device supports long frames (from > ETS5) and KNX Data Secure communication. KNX Data Secure telegrams are processed, filtered, forwarded, or blocked depending on settings.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	LK/S 4.2	2CDG110171R0011		0.1	1



IPR/S 3.5.1

IP Router Secure, MDRC

Connects the KNX bus with the Ethernet network and encrypts communication on the IP backbone. The device uses the KNXnet/IP Secure protocol for communication (Routing and Tunneling). It can be used as a fast line and area coupler. The full filter table for main groups 0-31 is supported. KNX devices can be programmed via the LAN using ETS. For this and further clients 5 Secure Tunneling Servers are available. The IP address can be fixed or can be received from a DHCP server. Power supply via 12…30 V DC or PoE (IEEE 802.3af class 1). The KNX Standard Communication (Multicast) can be switched off. In this case, up to 10 IPR/S 3.5.1 can communicate using unicast communication.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	IPR/S 3.5.1	2CDG110176R0011		0.11	1



IPR/S 3.1.1

IP Router, MDRC

Connects the KNX bus with the Ethernet network. The device uses the KNXnet/IP protocol for communication (Routing and Tunneling). It can be used as a fast line and area coupler. The full filter table for main groups 0-31 is supported. KNX devices can be programmed via the LAN using ETS. For this and further clients 5 Tunneling Servers are available. The IP address can be fixed or can be received from a DHCP server. Power supply via 12…30 V DC or PoE (IEEE 802.3af class 1). The KNX Standard Communication (Multicast) can be switched off. In this case, up to 10 IPR/S 3.1.1 can communicate using unicast communication.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	IPR/S 3.1.1	2CDG110175R0011		0.11	1

ABB i-bus® KNX

System Infrastructure and Interfacing



IPS/S 3.5.1

IP Interface Secure, MDRC

Connects the KNX bus with the Ethernet network and encrypts communication. The device uses the KNXnet/IP Secure protocol for communication (Tunneling). KNX devices can be programmed via the LAN using ETS. For this and further clients 5 Secure Tunneling Servers are available. The IP address can be fixed or can be received from a DHCP server. Power supply via 12…30 V DC or PoE (IEEE 802.3af class 1).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	IPS/S 3.5.1	2CDG110204R0011		0.11	1



IPS/S 3.1.1

IP Interface, MDRC

Connects the KNX bus with the Ethernet network. The device uses the KNXnet/IP protocol for communication (Tunneling). KNX devices can be programmed via the LAN using ETS. For this and further clients 5 Tunneling Servers are available. The IP address can be fixed or can be received from a DHCP server. Power supply via 12..30 V DC or PoE (IEEE 802.3af class 1).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	IPS/S 3.1.1	2CDG110177R0011		0.11	1



IS/S 8.1.1

IP Switch, 8 Ports, Fast Ethernet, MDRC

The IP Switch is an industrial-grade, 8 Ports, Fast Ethernet (100 Mbit/s), unmanaged switch with plug-and-play capabilities, designed for installation in electrical distribution boards and small housings for rapid mounting on 35 mm DIN rails (to EN 60715).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	8	IS/S 8.1.1	2CDG120082R0011		0.25	1



ISP/S 8.1.1.1

IP Switch PoE, 8 Ports, Fast Ethernet, 55W, MDRC

The IP Switch PoE is an industrial-grade, 8 Ports, Fast Ethernet (100 Mbit/s), PoE (55 W), unmanaged switch with plug-and-play capabilities, designed for installation in electrical distribution boards and small housings for rapid mounting on 35 mm DIN rails (to EN 60715).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	12	ISP/S 8.1.1.1	2CDG120083R0011		0.41	1



IPM/S 1.1

IP Patch Module, MDRC

The IP Patch Module consists of an RJ-45 module and a mounting adapter for rail mounting.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	1	IPM/S 1.1	2CDG120036R0011		0.1	1



USB/S 1.2

USB Interface, MDRC

Connects the KNX installation with PC software clients such as ETS or visualisations (programming, bus monitor, group monitor). The device supports Long Frames which allows faster download and download of KNX Secure devices.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	USB/S 1.2	2CDG110243R0011		0.08	1



LL/S 1.1

Optical Fibre Interface, MDRC

The device is used to couple two sections of an bus line using an optical fibre link. Ideal for bridging longer distances or to avoid having to implement lightning and overvoltage protection when laying cables between buildings. Two devices are needed to complete a transmission link.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	LL/S 1.1	GHQ6050053R0001		0.28	1

ABB i-bus® KNX
Connection and Wiring



DSM/S 1.1

Diagnosis and Protection Module, MDRC

Enables quick diagnosis of the bus state and indicates telegram traffic via an LED. A bus fault is indicated by contacts. The DSM also suppresses transient overvoltages and interference voltage spikes on the bus and thus protects the connected devices.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	DSM/S 1.1	2CDG110060R0011		0.11	1



SPD/S 1.1

Surge Protective Device

KNX surge protective devices are capable of discharging direct & indirect lightning strikes causing induced or conducted overvoltages between lines (differential) and lines to ground (common mode) and are safely kept well below the withstand voltages of the KNX system. They are installed between buildings or KNX zones to provide safe isolation from surges. End of life protection indication is provided from the pushbutton, simply depress the pushbutton and make sure green indicator illuminates. If no indication then replacement is required.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	SPD/S 1.1	7TCA085400R0448		0.1	1



VB/K ...

Wiring Jumpers

For the interconnection of devices with a bus connection terminal. The vertical and horizontal versions are matched to typical wiring applications.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
horizontal, 100 mm	–	VB/K 100.1	GHQ6301908R0003		0.06	10
horizontal, 200 mm	–	VB/K 200.1	GHQ6301908R0001		0.07	10
vertical, 270 mm	–	VB/K 270.1	GHQ6301908R0002		0.11	10
vertical, 360 mm	–	VB/K 360.1	GHQ6301908R0004		0.16	10



PS 1/4/6-KNX



PS-END 1-S

Busbars

Busbar for connection several floating supply contacts of a device (e.g. SD/S, SA/S, ...). Reducing the wiring effort and create a secure load-connection. The PS1/4/6 is ready assembled and can be used immediately. The PS 1/60/6 is cut to the required length and closed with the end cap PS-END 1-S.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
1 Phase, 4 Contacts	–	PS 1/4/6-KNX	2CDG924003R0011		0.012	10
1 Phase, 60 Contacts	–	PS 1/60/6-KNX	2CDG924004R0011		0.11	1
End Cap for busbar	–	PS-END 1-S	2CDL000001R0001		0.001	25



US/E 1

Connection Terminals

For connecting bus devices as well as for looping through or branching the bus cable. Available in black/red for use as bus connecting terminal, in blue as bus connecting terminal with surge protector and in white/yellow for use as a connecting terminal.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Bus Connection Terminal, 50 Pieces, black/red	–	BUSKLEMME	GHQ6301901R0001		0.01	50
Connection Terminal, 50 Pieces, white/yellow	–	KLEMME	GHQ6301902R0001		0.01	50
Connection Terminal with Surge Arrester	–	US/E 1	GHQ6310009R0001		0.01	1



STR/Z 1.50.1

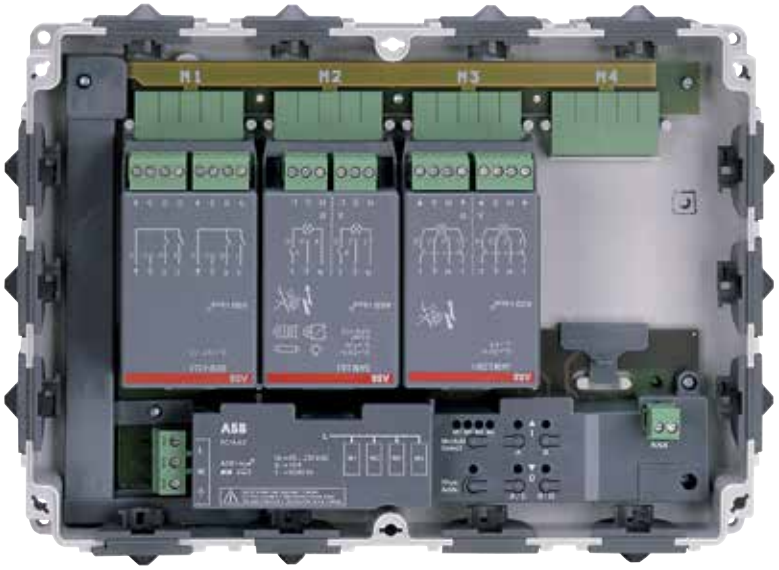
Label Carrier for DIN-rail Devices, 50 Pieces

Snap-on label carrier consisting of transparent carrier plate and insertable blank paper labels.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	STR/Z 1.50.1	2CDG110149R0011		0.04	50

ABB i-bus® KNX

Multifunction Room Automation –
Room Controller

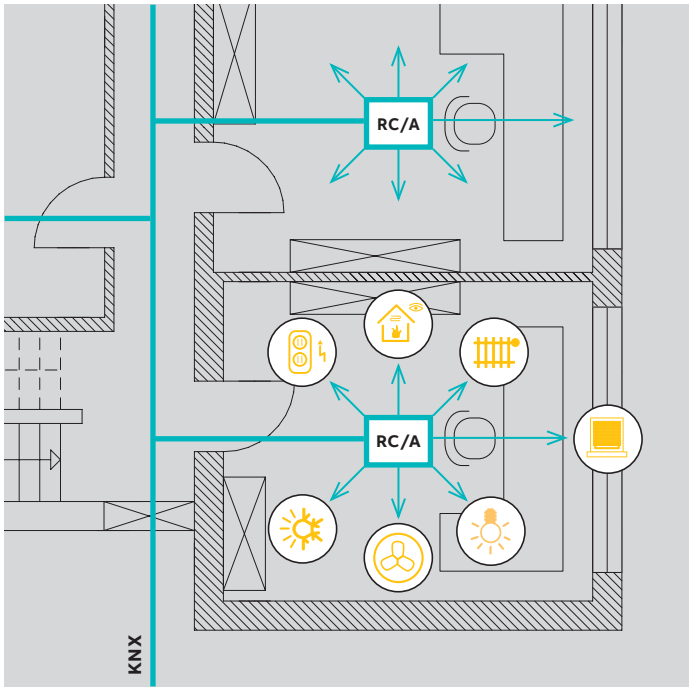




The fundamental principle:
One device per room
A single Room Controller controls all the room functions.
This “one device per room” principle economically and flexibly provides KNX functionality: With 4 or 8 modules, which are simply inserted into the basis device, all loads in this room (lights, blinds, heating, etc.) can be controlled.

Economic security from the outset
The installation concept of the Room Controller, particularly the simple plug-in module concept, provides security and reliability.

- **When planning the infrastructure of a building:**
  - It can be undertaken without exact knowledge of the subsequent user demands.
- **During commissioning:**
  - When user demands have been determined, they are implemented by simple insertion of modules.
- **In operation in a building:**
  - Modifications to the room utilisation are easy to implement.
  - The changes to the cable routing are limited to the room concerned.



Improved fire protection included
The significant reduction in the wiring also considerably reduces the fire load and thus improves safety for persons and assets.

Save on energy and not on comfort
Each room is used differently. The different module assignments of the Room Controller can be configured accordingly.
Just three examples of special building functions that can be implemented with the device.

In the lighting sector
Constant lighting control is not the only conceivable solution.
A high level of comfort can be assured by the control of different light scenes.

Blinds and roller shutters
Not only do they provide pleasant shading, they also assist in responsible use of energy. Intelligent facade controls move the blinds to suit the position of the sun.

Heating/Ventilation/Air conditioning
The control of electrothermal valves on radiators is no problem for the “electronic switch actuator” module of the Room Controller. The ventilation can also be integrated into this automatic control.

ABB i-bus® KNX

Multifunction Room Automation – Room Controller

Overview of switching performance

	SA/M 2.6.1	SA/M 2.16.1	SD/M 2.6.2	LR/M 1.6.2	UD/M 1.300.1	ES/M 2.230.1	ES/M 2.24.1
Outputs							
Load circuits	2 relay outputs	2 relay outputs, floating	2 relay outputs	1 relay output	Semiconductor output, dimmed via phase interval or phase control	2 semiconductor outputs for resistive loads, inrush current: max. 1 A, continuous current: max. 700 mA	2 semiconductor outputs for resistive loads, inrush current: max. 1 A, continuous current: max. 700 mA
U_n rated voltage	250/440 V AC	250/440 V AC	250/440 V AC	250/440 V AC	115/230 V AC	115/230 V AC	24 V AC/DC
I_n rated current	6 AX	16 A	6 AX	6 AX		700 mA	700 mA
Control outputs	–	–	2 x 1…10 V DC (passive)	1 x 1…10 V DC (passive)	–	–	–
Max. control current	–	–	30 mA	30 mA	Max. output power 300 VA at 230 V AC 150 VA at 127 V AC Min. output power: 2 VA	–	–
Max. cable length	–	–	100 m	100 m	–	–	–
Switching current per output							
AC3 operation (cos ϕ = 0.45) EN 60 947-4-1	6 A / 230 V	8 A / 230 V	6 A / 230 V	6 / 230 V	–	–	–
AC1 operation (cos ϕ = 0.45) EN 60 947-4-1	6 A / 230 V	16 A / 230 V	6 A / 230 V	6 A / 230 V	–	–	–
Fluorescent lighting load AX to EN 60 669	6 A / 250 V (70 µF)	16 A / 250 V (70 µF)	6 A / 250 V (70 µF)	6 A / 250 V (70 µF)	–	–	–
Minimum switching capacity	100 mA / 12 V 100 mA / 24 V	100 mA / 12 V 100 mA / 24 V	100 mA / 12 V 100 mA / 24 V	100 mA / 12 V 100 mA / 24 V	–	–	–
DC current switching capacity (resistive load)	6 A / 24 V=	16 A / 24 V=	6 A / 24 V=	6 A / 24 V=	–	–	–

– = Not applicable

Overview of switching performance

	SA/M 2.6.1	SA/M 2.16.1	SD/M 2.6.2	LR/M 1.6.2	UD/M 1.300.1	ES/M 2.230.1	ES/M 2.24.1
Lamp loads at 230 V AC							
– Incandescent lamp load	1380 W	2300 W	1380 W	1380 W	–	–	–
Fluorescent lamps T5 / T8							
– Uncompensated	1380 W	2300 W	1380 W	1380 W	–	–	–
– Parallel compensated	1380 W	1500 W	1380 W	1380 W	–	–	–
– DUO connection	1380 W	1500 W	1380 W	1380 W	–	–	–
Low-volt halogen lamps							
– Inductive transformer	1200 W	1200 W	1200 W	1200 W	–	–	–
– Electronic transformer	1380 W	1500 W	1380 W	1380 W	–	–	–
– Halogen lamp 230 V	1380 W	2300 W	1380 W	1380 W	–	–	–
Dulux lamp							
– Uncompensated	1100 W	1100 W	1100 W	1100 W	–	–	–
– Parallel compensated	1100 W	1100 W	1100 W	1100 W	–	–	–
Mercury-vapour lamp							
– Uncompensated	1380 W	2000 W	1380 W	1380 W	–	–	–
– Parallel compensated	1380 W	2000 W	1380 W	1380 W	–	–	–
Switching capacity							
– Max. peak inrush-current Ip (150 µs)	400 A	400 A	400 A	400 A	–	–	–
– Max. peak inrush-current Ip (250 µs)	320 A	320 A	320 A	320 A	–	–	–
– Max. peak inrush-current Ip (600 µs)	200 A	200 A	200 A	200 A	–	–	–
Number of electronic ballasts (T5/T8, single element)							
– 18 W (ABB EVG 1x18 CF)	23	23	23	23	–	–	–
– 24 W (ABB EVG-T5 1x24 CY)	23	23	23	23	–	–	–
– 36 W (ABB EVG 1x36 CF)	14	14	14	14	–	–	–
– 58 W (ABB EVG 1x58 CF)	11	11	11	11	–	–	–
– 80 W (Helvar EL 1x80 SC)	10	10	10	10	–	–	–

Further technical specifications can be found in the corresponding product manuals at www.abb.com/knx

—
– = Not applicable

ABB i-bus® KNX

Multifunction Room Automation – Room Controller Basis Devices



Configuration example

Room Controller

The Room Controller controls all the functions in the room as a central device. Due to its modular design, it can be adapted flexibly to the required functionality.
On-site installation enables short assembly and commissioning times. A structured cable entry creates clarity and flexibility for changes in function – both during planning and operation.

Special features

- Height 50 mm: optimised for underfloor installation or suspended ceilings
- Room Controller counts as just one bus device
- Robust housing, IP 54 degree of protection
- Manual operation for immediate testing – even without bus voltage
- Comprehensive software functionality



RC/A 4.2

Room Controller, Basis Device for 4 Modules, SM

It accommodates up to 4 plug-in modules and controls their functions. The RC/A 4.2 communicates as a bus device. Any module type can be plugged into each module slot. A manual control for module function test is integrated. Dimensions: (H x W x D) 200 x 275 x 50.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	RC/A 4.2	2CDG110104R0011		0.98	1



RC/A 8.2

Room Controller, Basis Device for 8 Modules, SM

It accommodates up to 8 plug-in modules and controls their functions. Any module type can be plugged into each module slot. The inserted module is automatically detected. The manual operation facility enables an immediate function test even when bus voltage is not applied. Dimensions: (H x W x D) 270 x 316 x 50.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	RC/A 8.2	2CDG110106R0011		1.695	1

ABB i-bus® KNX

Multifunction Room Automation – Room Controller Function Modules



BE/M 4.230.1

Binary Input Modules, 4-fold

Each of the modules provides 4 inputs. There are 3 module types available for the connection of 115/230 V, 12/24 V (AC or DC) or floating contacts to cover all demands.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
230 V	–	BE/M 4.230.1	2CDG110005R0011		0.13	1
12/24 V	–	BE/M 4.24.1	2CDG110006R0011		0.13	1
Contact Scanning	–	BE/M 4.12.1	2CDG110007R0011		0.13	1



SA/M 2.6.1

Switch Actuator Module, 2-fold, 6 A

For switching loads up to 16 A at a maximum continuous current of 6 A.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SA/M 2.6.1	2CDG110002R0011		0.17	1



SA/M 2.16.1

Switch Actuator Module, 2-fold, 16 A

Switches up to 16 A with two floating relay contacts. The feeding voltage is independent from the Room Controller Basis Device. It must thus be applied directly to the module.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SA/M 2.16.1	2CDG110100R0011		0.16	1



JA/M 2.230.1

Shutter Actuator Modules, 2-fold

For controlling two independent blind or shutter drives. There are two module types available for 115/230 V AC or 24 V DC drives.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
230 V AC	–	JA/M 2.230.1	2CDG110003R0011		0.17	1
24 V DC	–	JA/M 2.24.1	2CDG110004R0011		0.17	1



SD/M 2.6.2

Switch/Dim Actuator Module, 2-fold, 6 AX

It enables the switching and dimming of two groups of luminaries in conjunction with electronic ballasts via a 1…10 V control voltage.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SD/M 2.6.2	2CDG110107R0011		0.17	1

ABB i-bus® KNX

Multifunction Room Automation – Room Controller Function Modules



LR/M 1.6.2

Light Controller Module, 1-fold, 6 AX

Enables the switching and dimming of one group of luminaires via a 1...10 V control voltage. The device can be used for constant lighting control in connection with a Light Sensor LF/U 2.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	LR/M 1.6.2	2CDG110108R0011		0.13	1



UD/M 1.300.1

Universal Dim Actuator Module, 1-fold, 300 VA

For dimming incandescent lamps, 230 V or low-voltage halogen lamps up to 300 W/VA. The automatic load detection detects the connected load and optimises the control. The minimum load is just 2 W.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	UD/M 1.300.1	2CDG110012R0011		0.18	1



ES/M 2.230.1

Electronic Switch Actuator Module, 2-fold

With 2 overload-proof outputs for noiseless control of heating systems and chilled ceilings via thermoelectric valve drives. Two module types for voltages from 115/230 V or 24 V (AC or DC) are available.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
115/230 V	–	ES/M 2.230.1	2CDG110013R0011		0.15	1
24 V	–	ES/M 2.24.1	2CDG110014R0011		0.15	1

ABB i-bus® KNX

Multifunction Room Automation – Room Master

	Room Master Basic RM/S 1.1	Room Master Premium RM/S 2.1	Room Master RM/S 3.1	Room Master RM/S 4.1
General				
Supply voltage	KNX	KNX	KNX	KNX
Type of installation	DIN-Rail	DIN-Rail	DIN-Rail	DIN-Rail
Module width (18 mm)	8	12	12	8
Current consumption, bus	< 12 mA	< 24 mA	< 12 mA	< 12 mA
Inputs				
Binary inputs (for potential free contacts via contact scanning)	8	18	12	8
Outputs				
Switching capacity 20 A (16 AX) [1]	1	3	4	–
Switching capacity 16 A (10 AX) [2]	2	1	–	–
Switching capacity 6 A [3]	3 (configurable as switch or fan outputs)	12 (3 configurable as switch or fan outputs)	–	8
0.5 A electronic (for max. 2 electrothermal or motor valve drive controls)	2	2	–	–
6 A changeover contact (Blind or Shutter control)	–	1	4 (configurable also as switch outputs)	–
Functions				
Lighting control (Switching)	■	■	■	■
Heating/Cooling (Electrothermal or motor valve drive control, 3-level fan speed control)	■	■	■	■
Shading control (Shutter, blinds or curtains)	–	■	–	–
Control of further loads via switched electrical sockets	■	■	■	■
Internal connection of inputs and outputs without group adresses	■	■	■	■
Scenes	■	■	■	■
Room scenarios	■	■	■	■
Application with preconfigured inputs and outputs	■	■	–	–
Programmable with predefined and tested example projects (ETS 4) for different fields of application (office, schools, hotel rooms, ...)	–	–	■	–
Planning templates	–	–	■	–

■ = Function is supported

– = Function is not supported

1) = Switching capacity, see Switch Actuators SA/S x.16.5.1

2) = Switching capacity, see Switch Actuators SA/S x.10.2.1

3) = Switching capacity, see Switch Actuators SA/S x.6.1.1

ABB i-bus® KNX

Multifunction Room Automation – Room Master



RM/S 1.1



RM/S 2.1



RM/S 3.1



RM/S 4.1

Room Master

The Room Master is a KNX device with a combination of inputs and outputs. The quantities, technical data and the functions of these inputs and outputs are compiled, so that overall control of all the functions in rooms of a live-in character or apartments, are implemented via a device. Typical areas of application of the Room Master are hotel rooms, hospital rooms as well as apartments in institutions for residential care or in student residential homes. The Room Master with its compact design covers all the basic requirements for Lighting control, Heating/Air conditioning, Shading control (shutters, blinds or curtains - with the RM/S 2.1) and Control of further loads via switched electrical sockets. Function extensions are possible at any time, e.g. devices for dimming via ABB i-bus® KNX.

Overview of the inputs and outputs

	RM/S 1.1	RM/S 2.1	RM/S 3.1	RM/S 4.1	Application possibilities
Binary inputs via contact scanning	8	18	12	8	For connection of switches or push-buttons (light on/off, shutter up/down,etc.) or sensors (window contacts, door contacts, water sensors, condensation water sensors, hotel card readers, etc.)
Outputs 20 A (16 AX)	1	3	4	–	Bathroom fan, switching of electrical sockets
Outputs 16 A (10 AX)	2	1	–	–	Auxiliary electrical heating of fan-coil units (at RM/S 1.1 and 2.1), lighting
Outputs 6 A	3	12	–	8	3-speed fan control (at RM/S 1.1 and 2.1), lighting
Outputs 0.5 A electronic	2	2	–	–	Valve control (heating, cooling) for max. 2 seperate valves
Outputs 6 A changeover contact	–	1	4 (configurable as switch outputs too)	–	Blind or roller blind control

- RM/S 1.1 and RM/S 2.1 are preprogrammed ex factory
- RM/S 3.1 and RM/S 4.1 are programmable with predefined and tested example projects (ETS 4) for different fields of application (office, schools, hotel rooms, ...)
- Commissioning of the preprogrammed devices on the construction site without notebook and ETS programming. With the electrical connection all room functions are available.
- Optional functional extensions via integration into KNX networks with ETS software.

Further information about Room Master on www.abb.com/knx

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	8	RM/S 1.1	2CDG110094R0011		0.45	1
	12	RM/S 2.1	2CDG110095R0011		0.76	1
	12	RM/S 3.1	2CDG110165R0011		0.55	1
	8	RM/S 4.1	2CDG110170R0011		0.3	1

ABB i-bus® KNX

Inputs



ABB i-bus® KNX
Inputs

Wide-range inputs and a streamlined range – The ABB i-bus® KNX Binary Inputs.

ABB i-bus® KNX Binary Inputs serve as an interface for operation of KNX systems via conventional push buttons and switches as well as for processing binary signals (signalling contacts).

In contrast to the existing solutions, where the input voltages of 24 V and 230 V required separate devices, the Binary Inputs now feature **wide-range inputs**, which can process voltage signals ranging from 10 to 230 V AC/DC. This offers the **installer significantly greater flexibility.**

In addition to two devices with 4 and 8 wide-range inputs, the ABB i-bus® KNX Binary Input product range is rounded off by two devices with 4 and 8 inputs with scanning voltage. On these types, a pulsed scanning voltage is provided for connection of floating contacts from the device.

With an identical range of applications, the number of ABB i-bus® KNX Binary Inputs is now reduced from 6 types to 4.

All Binary Inputs feature **a high-quality membrane keypad for comfortable manual operation and display of the device functions.** Input states can be simulated at the device, so that the conventional push buttons, switches or floating contacts do not need to be connected for commissioning purposes. The device functions can be easily tested during commissioning in this way.

The Binary Inputs are powered via the KNX and do not require an additional power supply.

The software functionality of the Binary Inputs has also been extended. It is now possible to send **several switching telegrams with just a single push of a button.**
Especially useful, just as in the case of the Switch Actuators, it is also possible **to copy the channels of the device in the ETS.** The parameters and group addresses of a channel can be simply transferred to other channels in this way. This simplifies project engineering and helps reduce sources of error.



Application
- Operation of KNX systems via conventional push buttons and switches
- Processing of binary signals (signalling contacts)

Benefits
- Flexible application due to wide-range inputs
- Reduced stock requirement due to streamlined product range
- Simplified commissioning using the copy function

Product
- BE/S 4.20.2.1 with 4 inputs for contact scanning and manual operation
- BE/S 4.230.2.1 with 4 wide-range inputs and manual operation
- BE/S 8.20.2.1 with 8 inputs for contact scanning and manual operation
- BE/S 8.230.2.1 with 8 wide-range inputs and manual operation

	BE/S 4.20.2.1	BE/S 4.230.2.1	BE/S 8.20.2.1	BE/S 8.230.2.1	US/U 2.2	US/U 4.2	US/U 12.2
General							
Voltage range	–	10…230 V	–	10…230 V	–	–	–
Voltage type	–	AC/DC	–	AC/DC	–	–	–
Contact scanning	■	–	■	–	■	■	■
Inputs	4	4	8	8	2	4	12
Type of installation	DIN-Rail	DIN-Rail	DIN-Rail	DIN-Rail	FM	FM	FM
Module width (space unit)	2	2	4	4	–	–	–
Switch sensor							
Send switch value after any edge	■	■	■	■	■	■	■
Send switch value after signal length and/or cyclically	■	■	■	■	■	■	■
Send switch value 1 cyclically	■	■	■	■	■	■	■
Send switch value 2	■	■	■	–	–	–	–
Send switch value 3	■	■	■	–	–	–	–
Difference between short and long operation	■	■	■	■	■	■	■
Dim sensor							
Start-stop dimming, step-by-step dimming	■	■	■	■	■	■	■
One-touch dimming	■	■	■	■	■	■	■
Shutter Sensor							
Shutter operation via a push button/switch	■	■	■	■	■	■	■
Shutter operation via two push buttons/switches	■	■	■	■	■	■	■
Value/Forced operation							
1 bit [0/1], 2 bit forced operation	■	■	■	■	■	■	■
1/2/4 bytes	■	■	■	■	■	■	■
Signed	■	■	■	■	–	–	–
3 byte, time, weekday	■	■	■	■	–	–	–
Control scene							
8 bit scene	■	■	■	■	■	■	■
Store scene	■	■	■	■	■	■	■
Switching sequence							
Several preset sequences can be set	■	■	■	■	■	■	■
Link several push buttons in a switching sequence (actuating number)	■	■	■	■	■	■	■

—

■ = Function is supported

– = Function is not supported

ABB i-bus® KNX

Inputs

	BE/S 4.20.2.1	BE/S 4.230.2.1	BE/S 8.20.2.1	BE/S 8.230.2.1	US/U 2.2	US/U 4.2	US/U 12.2
Multiple operation							
Telegram for long operation	■	■	■	■	■	■	■
Multiple operation can be set	■	■	■	■	■	■	■
Pulse counter							
Adjustable data type and threshold values	■	■	■	■	■	■	–
Temporary counter activation	■	■	■	■	■	■	–
Send counter level cyclically	■	■	■	■	■	■	–
Manual operation							
Energy-saving mode	■	■	■	■	–	–	–
Enable/release manual operation	■	■	■	■	–	–	–
Manual operating status	■	■	■	■	–	–	–
Enable/release manual operation button per input	■	■	■	■	–	–	–
Input LED can be inverted	■	■	■	■	–	–	–
Special functions							
Copying and exchanging parameter settings	■	■	■	■	–	–	–
Enable/disable input	■	■	■	■	■	■	■
Adjustable debounce time and minimum signal time	■	■	■	■	■	■	■
Limit the number of telegrams	■	■	■	■	■	■	■
Device sends an “In operation” telegram	■	■	■	■	–	–	–
Heating valve control (electric relay)	–	–	–	–	■	■	■
Switch LEDs	–	–	–	–	■	■	■

■ = Function is supported

– = Function is not supported



BE/S 8.230.2.1

Binary Inputs, 10 – 230 V, MDRC

Detects AC/DC signals in the voltage range from 12...230 V. The state of the input is displayed via yellow LEDs. The binary inputs enable detection of independent input signals. The devices feature a manual operation pushbutton for each channel. The devices are powered via the ABB i-bus® and do not require an additional power supply.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
4-fold	2	BE/S 4.230.2.1	2CDG110091R0011		0.12	1
8-fold	4	BE/S 8.230.2.1	2CDG110093R0011		0.23	1



BE/S 4.20.2.1

Binary Inputs, Contact Scanning, MDRC

Scans floating contacts with internally generated scanning voltage. The state of the input is displayed via yellow LEDs. The binary inputs enable detection of independent input signals. The devices feature a manual operation pushbutton for each channel. The devices are powered via the ABB i-bus® and do not require an additional power supply.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
4-fold	2	BE/S 4.20.2.1	2CDG110090R0011		0.12	1
8-fold	4	BE/S 8.20.2.1	2CDG110092R0011		0.23	1



US/U 4.2

Universal Interface, FM

The universal interface has 2, 4 or 12 channels which can be parametrised as inputs or outputs with the ETS software. Conventional push-buttons, auxiliary contacts, LEDs and the electronic relay ER/U can be connected. The connecting cables can be extended up to 10 m. The contact scanning voltage and the supply voltage for the LEDs are made available by the device, the series resistors for the LEDs are integrated.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
2-fold	–	US/U 2.2	GHQ6310074R0111		0.06	1
4-fold	–	US/U 4.2	GHQ6310070R0111		0.06	1
12-fold	–	US/U 12.2	2CDG110065R0011		0.06	1

ABB i-bus® KNX
Inputs



AE/S 4.1.1.3



AE/A 2.1



WZ/S 1.3.1.2



WES/A 3.1



WS/S 4.1.1.2

Analogue Input
Used wherever analogue variables should be detected. The sophisticated housing concept of the surface mounted device and the screw terminals of the DIN-Rail device enable quick and clear wiring and improve the speed of connection of the sensors.
Comprehensive range of adjustment for many typical sensors (1 – 10 V, 0(4) – 20 mA, 0 – 1 V, PT 100, PT 1000,...) for detection of temperature, brightness, fill levels, etc.
For active sensors the auxiliary voltage is supplied by AE/S 4.1.1.3; in case of AE/A 2.1 a separate auxiliary voltage supply is required.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
4-fold, MDRC	4	AE/S 4.1.1.3	2CDG110190R0011		0.27	1
2-fold, SM	–	AE/A 2.1	2CDG110086R0011		0.30	1

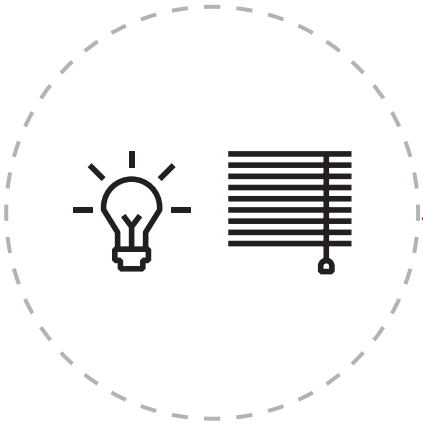
Weather Unit, MDRC and Weather Sensor, SM
It is used to detect and process weather data from weather sensor. It supplies data for twilight and brightness levels in 3 directions, rain, temperature, information on day/night, wind speed, date and time. An additional input for the connection of a PT - 1000 sensor is provided. Four value memories which can store up to 24 values each are available. The Weather Unit WZ/S 1.3.1.2 can be operated either with the new Weather Sensor WES/A 3.1 or with the former sensor WES/A 2.1. The Weather Unit also provides the supply voltage for the connected sensor. The Weather Unit has to be supplied with a operating voltage of 85 to 265 V AC. The Weather Unit supports the ABB i-bus® Tool for advanced diagnosis and improved commissioning.
The Weather Sensor WES/A 3.1 detects twilight, brightness in three directions, rain, temperature, day/night, wind speed and the date and time using a GPS module. An additional heating transformer is not required. The new Weather Sensor WES/A 3.1 can be connected to the new Weather Unit WZ/S 1.3.1.2 or to the former Weather Unit WZ/S 1.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Weather Unit	4	WZ/S 1.3.1.2	2CDG110184R0011		0.20	1
Weather Sensor	–	WES/A 3.1	2CDG120046R0011		0.17	1

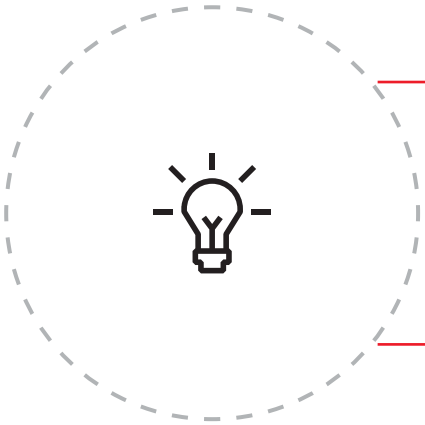
Weather Station, 4-fold, MDRC
All common weather sensors for wind speed, wind direction, rain, amount of rain, brightness, light intensity, pyranometers, twilight, air pressure, humidity or temperature can be connected to the device. The power supply generates the 24 V DC voltage for external sensors (max. 300 mA). The device can be operated with 85 to 265 V AC, 50/60 Hz. The application software is configured for the detection of weather based data and enables quick sensor programming. The Weather Station supports the ABB i-bus® Tool for advanced diagnosis and improved commissioning.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	WS/S 4.1.1.2	2CDG110191R0011		0.27	1

Outputs
Switch to a smarter tomorrow



Combi Switch Actuators
The 9 Combi devices are combining two applications: switching and shading. The products are ideally made for residential usage to offer greatest flexibility.



Standard Switch Actuators
These 12 devices are building the Standard when it comes to switching applications for commercial buildings. During the development we focused on providing a cost optimized selection of products, that matches the needs of commercial projects.

Professional Switch Actuators
The professional series includes 8 switch actuators made for high switching capacity. This portfolio has been developed to suit the high requirements of industry standards.

ABB i-bus® KNX

Outputs – Combi Switch Actuators

The following table provides and overview of the rated values, switching performance, lamp loads or the number of lamps, which can be connected to a contact:

	SAH/S 8.6.7.1 SAH/S 16.6.7.1 SAH/S 24.6.7.1	SAH/S 8.10.7.1 SAH/S 16.10.7.1 SAH/S 24.10.7.1	SAH/S 8.16.7.1 SAH/S 16.16.7.1 SAH/S 24.16.7.1
Range	Combi	Combi	Combi
I_n rated current (A) [3]	6 A	10 A [5]	16 A [5]
U_n rated voltage (V)	230 V AC	230 V AC	230 V AC
AC1 operation (cos ϕ = 0.8) acc. to EN 60947-4-1	6 A	10 A	16 A
AC3 operation (cos ϕ = 0.45) acc. to EN 60947-4-1	6 A	6 A	6 A
C-Load switching capacity (200 µF)	–	–	–
Fluorescent lighting load AX acc. to EN 60669-1	6 AX (140 µF)[1]	10 AX (140 µF)[1]	10 AX (140 µF)[1]
Minimum switching capacity	100 mA/12 V	100 mA/12 V	100 mA/12 V
DC current switching capacity (resistive load)	6 A/24 V =	6 A/24 V =	6 A/24 V =
Mechanical service life	> 10^6	> 10^6	> 10^6
Electronic endurance to IEC 60947-4-1:			
– Rated current AC1 (240 V/cos ϕ = 0.8)	100,000	100,000	100,000
– Rated current AC3 (240 V/cos ϕ = 0.45)	6,000	6,000	6,000
Incandescent lamp load at 230 V AC	1,200 W	1,200 W	1,200 W
Fluorescent lamp T5 / T8:			
– Uncorrected	800 W	800 W	800 W
Low-voltage halogen lamps:			
– Inductive transformer	800 W	800 W	800 W
– Electronic transformer	1,000 W	1,000 W	1,000 W
Halogen lamp 230 V	1,000 W	1,000 W	1,000 W
Mercury-vapour lamps:			
– Uncorrected	1,000 W	1,000 W	1,000 W
– Parallel compensated	800 W	800 W	800 W
LED lamps/energy-saving lamps	250 W	250 W	250 W
Rated motor power	1,380 W	1,380 W	1,380 W
Max. peak inrush-current Ip (150 µs)	200 A	200 A	200 A
Max. peak inrush-current Ip (250 µs)	160 A	160 A	160 A
Max. peak inrush-current Ip (600 µs)	100 A	100 A	100 A
Number of ballasts (T5/T8, single element): [2]			
18 W (ABB ballasts 1 x 18 SF)	10 ballasts	10 ballasts	10 ballasts
24 W (ABB ballasts 1 x 24 CY)	10 ballasts	10 ballasts	10 ballasts
36 W (ABB ballasts 1 x 36 CF)	7 ballasts	7 ballasts	7 ballasts
58 W (ABB ballasts 1 x 58 CF)	5 ballasts	5 ballasts	5 ballasts
80 W (Helvar EL 1 x 80 SC)	3 ballasts	3 ballasts	3 ballasts

1) = The number of ballasts is limited by the protection with B16/B20 circuit-breakers.

2) = For multiple element lamps or other types, the number of electronic ballasts must be determined using the peak inrush-current of the electronic ballasts.

3) = The maximum peak inrush-current may not be exceeded.

4) = Not intended for AC3 operation, see Technical Data for maximum AC3 current.

5) = Max. load current per device: 8-fold = 100 A, 16-fold = 160 A, 24-fold = 200 A

The following table provides an overview of the functions possible with the Switch Actuators and their application programs:

	SAH/S 8.6.7.1 **SAH/S 16.6.7.1** **SAH/S 24.6.7.1**	**SAH/S 8.10.7.1** **SAH/S 16.10.7.1** **SAH/S 24.10.7.1**	**SAH/S 8.16.7.1** **SAH/S 16.16.7.1** **SAH/S 24.16.7.1**
Range	Combi	Combi	Combi
Type of installation	DIN-Rail	DIN-Rail	DIN-Rail
Number of outputs (Switch [Blind])	8 [4]/16 [8]/24 [12]	8 [4]/16 [8]/24 [12]	8 [4]/16 [8]/24 [12]
Module width (space unit)	4/8/12	4/8/12	4/8/12
Manual operation	■	■	■
Switching position indication	■	■	■
I_n rated current (A)	6 A	10 A	16 A
Current measurement	–	–	–
Switch function			
– Central On/Off	■	■	■
– Staircase lighting	■	■	■
– Staircase lighting advance warning	■	■	■
– Change staircase lighting time via group object	■	■	■
– Flashing	■	■	■
– Selection of N.O./N.C. contact	■	■	■
– Switching on/off delay	■	■	■
Energy Function	–	–	–
Load control integration	■	■	■
Priority objects/forced operation/blocking	■	■	■
Function Scene	■	■	■
Blind/shutter function			
– Central up/down/position/stop	■	■	■
– Blind/shutter control	■	■	■
– Wind/Rain/Frost alarm	■	■	■
– Automatic sun protection	■	■	■
– Parameterizable reversing time	■	■	■
– Reference movement	■	■	■
– Travel range limitation	■	■	■
– Adjustable delay time for drives	■	■	■
Function Logic (independet of output)			
– Logic AND function	■	■	■
– Logic OR function	■	■	■
– Logic exclusive OR function	■	■	■
– Gate function	■	■	■
– 1 bit Inverter	■	■	■
Function Threshold (independent of output)	■	■	■
Additional functions			
– Request status values	■	■	■
– Template parameter windows	■	■	■
– Reaction on bus voltage failure/recovery	■	■	■
– Advanced status group objects	■	■	■

—

■ = Function is supported

– = Function is not supported

ABB i-bus® KNX

Outputs – Standard Switch Actuators

The following table provides and overview of the rated values, switching performance, lamp loads or the number of lamps, which can be connected to a contact:

	SA/S 2.6.2.2 SA/S 4.6.2.2 SA/S 8.6.2.2 SA/S 12.6.2.2	SA/S 2.10.2.2 SA/S 4.10.2.2 SA/S 8.10.2.2 SA/S 12.10.2.2	SA/S 2.16.2.2 SA/S 4.16.2.2 SA/S 8.16.2.2 SA/S 12.16.2.2
Range	Standard	Standard	Standard
I_n rated current (A) [3]	6 A	10 A	16 A
U_n rated voltage (V)	230 V AC	230 V AC	230 V AC
AC1 operation (cos ϕ = 0.8) acc. to EN 60947-4-1	6 A	10 A	16 A
AC3 operation (cos ϕ = 0.45) acc. to EN 60947-4-1	6 A	8 A	8 A
C-Load switching capacity (200 µF)	–	–	–
Fluorescent lighting load AX acc. to EN 60669-1	6 AX (140 µF) [3]	10 AX (140 µF) [3]	16 A (140 µF) [3]
Minimum switching capacity	100 mA/12 V	100 mA/12 V	100 mA/12 V
DC current switching capacity (resistive load)	6 A/24 V =	10 A/24 V =	16 A/24 V =
Mechanical service life	> 3 x 10^6	> 3 x 10^6	> 3 x 10^6
Electronic endurance acc. to IEC 60947-4-1:			
– Rated current AC1 (240 V/cos ϕ = 0.8)	100,000	100,000	100,000
– Rated current AC3 (240 V/cos ϕ = 0.45)	30,000	30,000	30,000
– Rated current AC5a (240 V/cos ϕ = 0.45)	30,000	30,000	30,000
Incandescent lamp load at 230 V AC	1,380 W	2,300 W	2,500 W
Fluorescent lamp T5 / T8:			
– Uncorrected	1,380 W	2,300 W	2,500 W
– Parallel compensated	1,380 W	1,500 W	1,500 W
– DUO circuit	1,380 W	1,500 W	1,500 W
Low-voltage halogen lamps:			
– Inductive transformer	1,200 W	1,200 W	1,200 W
– Electronic transformer	1,380 W	1,500 W	1,500 W
Halogen lamp 230 V	1,380 W	2,300 W	2,500 W
Dulux lamps:			
– Uncorrected	1,100 W	1,100 W	1,100 W
– Parallel compensated	1,100 W	1,100 W	1,100 W
Mercury-vapour lamps:			
– Uncorrected	1,380 W	2,000 W	2,000 W
– Parallel compensated	1,380 W	2,000 W	2,000 W
LED lamps/energy-saving lamps	400 W	400 W	400 W
Rated motor power	1,380 W	1,840 W	1,840 W
Max. peak inrush current Ip (150 µs)	400 A	400 A	400 A
Max. peak inrush current Ip (250 µs)	320 A	320 A	320 A
Max. peak inrush current Ip (600 µs)	200 A	200 A	200 A
Number of ballasts (T5/T8, single element): [2]			
18 W (ABB ballasts 1 x 18 SF)	23 ballasts	23 ballasts	23 ballasts
24 W (ABB ballasts 1 x 24 CY)	23 ballasts	23 ballasts	23 ballasts
36 W (ABB ballasts 1 x 36 CF)	14 ballasts	14 ballasts	14 ballasts
58 W (ABB ballasts 1 x 58 CF)	11 ballasts	11 ballasts	11 ballasts
80 W (Helvar EL 1 x 80 SC)	10 ballasts	10 ballasts	10 ballasts

1) = The number of ballasts is limited by the protection with B16/B20 circuit-breakers.

2) = For multiple element lamps or other types, the number of electronic ballasts must be determined using the peak inrush-current of the electronic ballasts.

3) = The maximum peak inrush-current may not be exceeded.

4) = Not intended for AC3 operation, see Technical Data for maximum AC3 current.

The following table provides an overview of the functions possible with the Switch Actuators and their application programs:

	SA/S 2.6.2.2 **SA/S 4.6.2.2** **SA/S 8.6.2.2** **SA/S 12.6.2.2**	**SA/S 2.10.2.2** **SA/S 4.10.2.2** **SA/S 8.10.2.2** **SA/S 12.10.2.2**	**SA/S 2.16.2.2** **SA/S 4.16.2.2** **SA/S 8.16.2.2** **SA/S 12.16.2.2**
Range	Standard	Standard	Standard
Type of installation	DIN-Rail	DIN-Rail	DIN-Rail
Number of outputs	2/4/8/12	2/4/8/12	2/4/8/12
Module width (space unit)	2/4/8/12	2/4/8/12	2/4/8/12
Manual operation	■	■	■
Switching position indication	■	■	■
I_n rated current (A)	6 A	10 A	16 A
Current measurement	–	–	–
Switch function			
– Central On/Off	■	■	■
– Staircase lighting	■	■	■
– Staircase lighting advance warning	■	■	■
– Change staircase lighting time via group object	■	■	■
– Flashing	■	■	■
– Selection of N.O./N.C. contact	■	■	■
– Switching on/off delay	■	■	■
Energy Function	–	–	–
Load control integration	■	■	■
Priority objects/forced operation/blocking	■	■	■
Function Scene	■	■	■
Blind/shutter function	–	–	–
Function Logic (independet of output)			
– Logic AND function	■	■	■
– Logic OR function	■	■	■
– Logic exclusive OR function	■	■	■
– Gate function	■	■	■
– 1 bit Inverter	■	■	■
Function Threshold (independent of output)	■	■	■
Additional functions			
– Request status values	■	■	■
– Template parameter windows	■	■	■
– Reaction on bus voltage failure/recovery	■	■	■
– Advanced status group objects	■	■	■

—

■ = Function is supported

– = Function is not supported

ABB i-bus® KNX

Outputs – Professional Switch Actuators

The following table provides and overview of the rated values, switching performance, lamp loads or the number of lamps, which can be connected to a contact:

	SA/S 2.16.5.2 SA/S 4.16.5.2 SA/S 8.16.5.2 SA/S 12.16.5.2	SA/S 2.16.6.2 SA/S 4.16.6.2 SA/S 8.16.6.2 SA/S 12.16.6.2
Range	Professional	Professional with Energy Function
I_n rated current (A) [3]	16/20 A C-Load	16/20 A C-Load
U_n rated voltage (V)	230 V AC	230 V AC
AC1 operation (cos ϕ = 0.8) acc. to EN 60947-4-1	20 A	20 A
AC3 operation (cos ϕ = 0.45) acc. to EN 60947-4-1	16 A	16 A
C-Load switching capacity (200 µF)	20 A	20 A
Fluorescent lighting load AX acc. to EN 60669-1	20 AX (200 µF) [3]	20 AX (200 µF) [3]
Minimum switching capacity	100 mA/12 V	100 mA/12 V
DC current switching capacity (resistive load)	20 A/24 V =	20 A/24 V =
Mechanical service life	> 10^6	> 10^6
Electronic endurance acc. to IEC 60947-4-1:		
– Rated current AC1 (240 V/cos ϕ = 0.8)	100,000	100,000
– Rated current AC3 (240 V/cos ϕ = 0.45)	30,000	30,000
– Rated current AC5a (240 V/cos ϕ = 0.45)	30,000	30,000
Incandescent lamp load at 230 V AC	3,680 W	3,680 W
Fluorescent lamp T5 / T8:		
– Uncorrected	3,680 W	3,680 W
– Parallel compensated	2,500 W	2,500 W
– DUO circuit	3,680 W	3,680 W
Low-voltage halogen lamps:		
– Inductive transformer	2,000 W	2,000 W
– Electronic transformer	2,500 W	2,500 W
Halogen lamp 230 V	3,680 W	3,680 W
Dulux lamps:		
– Uncorrected	3,680 W	3,680 W
– Parallel compensated	3,000 W	3,000 W
Mercury-vapour lamps:		
– Uncorrected	3,680 W	3,680 W
– Parallel compensated	3,000 W	3,000 W
LED lamps/energy-saving lamps	650 W	650 W
Rated motor power	3,680 W	3,680 W
Max. peak inrush current Ip (150 µs)	600 A	600 A
Max. peak inrush current Ip (250 µs)	480 A	480 A
Max. peak inrush current Ip (600 µs)	300 A	300 A
Number of ballasts (T5/T8, single element): [2]		
18 W (ABB ballasts 1 x 18 SF)	26[1] ballasts	26[1] ballasts
24 W (ABB ballasts 1 x 24 CY)	26[1] ballasts	26[1] ballasts
36 W (ABB ballasts 1 x 36 CF)	22 ballasts	22 ballasts
58 W (ABB ballasts 1 x 58 CF)	12[1] ballasts	12[1] ballasts
80 W (Helvar EL 1 x 80 SC)	12[1] ballasts	12[1] ballasts

1) = The number of ballasts is limited by the protection with B16/B20 circuit-breakers.

2) = For multiple element lamps or other types, the number of electronic ballasts must be determined using the peak inrush-current of the electronic ballasts.

3) = The maximum peak inrush-current may not be exceeded.

4) = Not intended for AC3 operation, see Technical Data for maximum AC3 current.

The following table provides an overview of the functions possible with the Switch Actuators and their application programs:

	SA/S 2.16.5.2 **SA/S 4.16.5.2** **SA/S 8.16.5.2** **SA/S 12.16.5.2**	**SA/S 2.16.6.2** **SA/S 4.16.6.2** **SA/S 8.16.6.2** **SA/S 12.16.6.2**
Range	Professional	Professional with Energy Function
Type of installation	DIN-Rail	DIN-Rail
Number of outputs	2/4/8/12	2/4/8/12
Module width (space unit)	2/4/8/12	2/4/8/12
Manual operation	■	■
Switching position indication	■	■
I_n rated current (A)	16/20 A C-Load	16/20 A C-Load
Current measurement	–	■
Switch function		
– Central On/Off	■	■
– Staircase lighting	■	■
– Staircase lighting advance warning	■	■
– Change staircase lighting time via group object	■	■
– Flashing	■	■
– Selection of N.O./N.C. contact	■	■
– Switching on/off delay	■	■
Energy Function	–	■
– Current measurement	–	■
– Power calculation	–	■
– Energy consumption calculation	–	■
– Load monitoring	–	■
Load control integration	■	■
Priority objects/forced operation/blocking	■	■
Function Scene	■	■
Blind/shutter function	–	–
Function Logic (independet of output)		
– Logic AND function	■	■
– Logic OR function	■	■
– Logic exclusive OR function	■	■
– Gate function	■	■
– 1 bit Inverter	■	■
Function Threshold (independent of output)	■	■
Additional functions		
– Request status values	■	■
– Template parameter windows	■	■
– Reaction on bus voltage failure/recovery	■	■
– Advanced status group objects	■	■

■ = Function is supported

– = Function is not supported

ABB i-bus® KNX

Outputs – Combi Switch Actuators



SAH/S 8.6.7.1

Switch/Shutter Actuator, 6 A, MDRC

The compact 6 A combi switch actuator has 8, 16 or 24 independent switching relays. The outputs can be used individually via ABB i-bus® KNX for switching electrical loads or in pairs for controlling 230 V AC roller shutter or blind drives (no electromechanically interlocking). The device features a manual operation, which can also be disabled. Via the manual operation the outputs can be operated manually and the switching or driving status is displayed. The device is powered by KNX and requires no additional power supply.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
8-fold	4	SAH/S 8.6.7.1	2CDG110244R0011		0.35	1
16-fold	8	SAH/S 16.6.7.1	2CDG110245R0011		0.60	1
24-fold	12	SAH/S 24.6.7.1	2CDG110246R0011		0.83	1



SAH/S 16.10.7.1

Switch/Shutter Actuator, 10 A, MDRC

The compact 10 A combi switch actuator has 8, 16 or 24 independent switching relays. The outputs can be used individually via ABB i-bus® KNX for switching electrical loads or in pairs for controlling 230 V AC roller shutter or blind drives (no electromechanically interlocking). The device features a manual operation, which can also be disabled. Via the manual operation the outputs can be operated manually and the switching or driving status is displayed. The device is powered by KNX and requires no additional power supply.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
8-fold	4	SAH/S 8.10.7.1	2CDG110247R0011		0.35	1
16-fold	8	SAH/S 16.10.7.1	2CDG110248R0011		0.60	1
24-fold	12	SAH/S 24.10.7.1	2CDG110249R0011		0.83	1



SAH/S 24.16.7.1

Switch/Shutter Actuator, 16 A, MDRC

The compact 16 A combi switch actuator has 8, 16 or 24 independent switching relays. The outputs can be used individually via ABB i-bus® KNX for switching electrical loads or in pairs for controlling 230 V AC roller shutter or blind drives (no electromechanically interlocking). The device features a manual operation, which can also be disabled. Via the manual operation the outputs can be operated manually and the switching or driving status is displayed. The device is powered by KNX and requires no additional power supply.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
8-fold	4	SAH/S 8.16.7.1	2CDG110250R0011		0.35	1
16-fold	8	SAH/S 16.16.7.1	2CDG110251R0011		0.60	1
24-fold	12	SAH/S 24.16.7.1	2CDG110252R0011		0.83	1

ABB i-bus® KNX

Outputs – Standard Switch Actuators



SA/S 2.6.2.2

Switch Actuator, 6 A, MDRC

The switch actuator uses potential free contacts to switch 2, 4, 8 or 12 independent electrical loads via the ABB i-bus® KNX. The device features a manual operation and displaying of the switching state of the outputs. The 6 A device is especially suited to switch resistive, inductive or capacitive loads. The device is powered by KNX and requires no additional power supply.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
2-fold	2	SA/S 2.6.2.2	2CDG110253R0011		0.20	1
4-fold	4	SA/S 4.6.2.2	2CDG110254R0011		0.29	1
8-fold	8	SA/S 8.6.2.2	2CDG110255R0011		0.5	1
12-fold	12	SA/S 12.6.2.2	2CDG110256R0011		0.72	1



SA/S 8.10.2.2

Switch Actuator, 10 A, MDRC

The switch actuator uses potential free contacts to switch 2, 4, 8 or 12 independent electrical loads via the ABB i-bus® KNX. The device features a manual operation and displaying of the switching state of the outputs. The 10 A device is especially suited for loads with high surge currents e.g. flourescent lighting (AX) acc. EN 60669. The device is powered by KNX and requires no additional power supply.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
2-fold	2	SA/S 2.10.2.2	2CDG110257R0011		0.20	1
4-fold	4	SA/S 4.10.2.2	2CDG110258R0011		0.29	1
8-fold	8	SA/S 8.10.2.2	2CDG110259R0011		0.5	1
12-fold	12	SA/S 12.10.2.2	2CDG110260R0011		0.72	1



SA/S 12.16.2.2

Switch Actuator, 16 A, MDRC

The switch actuator uses potential free contacts to switch 2, 4, 8 or 12 independent electrical loads via the ABB i-bus® KNX. The device features a manual operation and displaying of the switching state of the outputs.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
2-fold	2	SA/S 2.16.2.2	2CDG110261R0011		0.20	1
4-fold	4	SA/S 4.16.2.2	2CDG110262R0011		0.29	1
8-fold	8	SA/S 8.16.2.2	2CDG110263R0011		0.5	1
12-fold	12	SA/S 12.16.2.2	2CDG110264R0011		0.72	1

ABB i-bus® KNX

Outputs – Professional Switch Actuators

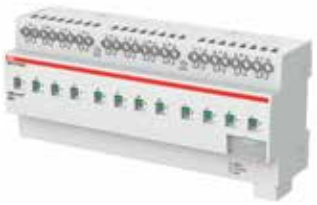


SA/S 4.16.5.2

Switch Actuator, 16 A, C-Load, MDRC

The switch actuator uses potential free contacts to switch 2, 4, 8 or 12 independent electrical loads via the ABB i-bus® KNX. The device features a manual operation and displaying of the switching state of the outputs. The 16/20 A, 16 A-AC3 (C-load) device is especially suited for loads with high surge currents e.g. flourescent lighting (AX) acc. EN 60669.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
2-fold	2	SA/S 2.16.5.2	2CDG110265R0011		0.21	1
4-fold	4	SA/S 4.16.5.2	2CDG110266R0011		0.31	1
8-fold	8	SA/S 8.16.5.2	2CDG110267R0011		0.55	1
12-fold	12	SA/S 12.16.5.2	2CDG110268R0011		0.79	1



SA/S 12.16.6.2

Switch Actuator, 16 A, C-Load with Energy Function, MDRC

The switch actuator uses potential free contacts to switch 2, 4, 8 or 12 independent electrical loads via ABB i-bus® KNX. The device has integrated energy functions. This includes independent load current measurement in each output and easy to use calculation of power and energy consumption for each output or groups of outputs. Via an integrated load shedding object an integration in a load control system can be easily realized. The device features a manual operation and displaying of the switching state of the outputs. The 16/20 A, 16 A-AC3 (C-load) device is especially suited for loads with high surge currents e.g. LED or fluorescent lighting (AX) acc. EN60669.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
2-fold	2	SA/S 2.16.6.2	2CDG110269R0011		0.24	1
4-fold	4	SA/S 4.16.6.2	2CDG110270R0011		0.37	1
8-fold	8	SA/S 8.16.6.2	2CDG110271R0011		0.66	1
12-fold	12	SA/S 12.16.6.2	2CDG110272R0011		0.96	1

ABB i-bus® KNX
Outputs



6151/11 U-500

Switch Actuator, 1-fold, 16 A, FM **to be discontinued**

For switching 230 V~ consumers. Equipped with two extension inputs which depending on parameterization can act directly on the switching output or alternatively as binary inputs on the KNX bus. One Normally open contact, potential free; switching voltage: 230 V AC; 50/60 Hz; max. switching current: 16 A; switching capacity: up to 2.500 W depending on the consumer. Rated voltage: 230 V~, +10% / –10%, 50 Hz – 60 Hz. The bus can be connected via enclosed terminal block.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6151/11 U-500	2CKA006151A0245		0.11	1



SA/U 1.16.2

Switch Actuator, 1-fold, 16 A, FM **NEW**

For switching 230 V~ consumers. Equipped with three extension inputs which depending on parameterization can act directly on the switching output or alternatively as binary inputs on the KNX bus. One Normally open contact, potential free; switching voltage: 230 V AC; 50 Hz; max. switching current: 16 A; switching capacity: up to 2.500 W depending on the consumer. Rated voltage: 230 V~, +10% / –10%, 50 Hz. The bus can be connected via enclosed terminal block.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SA/U 1.16.2	2CKA006151A0280		0.11	1



SAH/U 2.16.2

Switch/Shutter Actuator, 2/1-fold, FM **NEW**

For controlling blind or awning motors or for switching two 230 V~ consumers. With 3 inputs and 1 change-over output – normally open contact, potential-bound –. Rated voltage: 230 V~, +10% / – 10%, 50 Hz. Input polling voltage: 5 V. Output rated current: 3 A, cos ϕ 0.8, Output voltage: 250 V~.
The bus can be connected via enclosed terminal block.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SAH/U 2.16.2	2CKA006152A0042		0.11	1



IO/S 4.6.1.1

I/O Actuator, 6 A, MDRC

For the control of loads in residential areas, typically in hotel rooms and apartments.
The I/O Actuators provide binary inputs for the connection of conventional push-buttons and outputs for switching loads. Inputs and outputs can be internally connected by ETS.
By integrating the devices into KNX networks further functions can be realised: e.g. central control or room based emergency calls to a control centre.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
4-fold	4	IO/S 4.6.1.1	2CDG110168R0011		0.17	1
8-fold	8	IO/S 8.6.1.1	2CDG110169R0011		0.30	1

ABB i-bus® KNX
Outputs



AA/S 4.1.2



AA/A 2.1.2

Analogue Actuator
The Analogue Actuator converts KNX telegrams in voltage (0...10 V) or current (0...24 mA) signals. These analogue output signals are used to influence regulatory processes. For example, devices for heating, air conditioning or ventilation applications can be adjusted in their operation depending on the information, which are transmitted via the bus system. This Analogue Actuator is available in a 4-fold DIN rail version and a 2-fold device with surface mounting housing. The ABB i-bus® Tool is supported for advanced diagnosis and improved commissioning.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
4-fold, MDRC	4	AA/S 4.1.2	2CDG110202R0011		0.19	1
2-fold, SM	–	AA/A 2.1.2	2CDG110203R0011		0.30	1

ABB i-bus® KNX
Shading Control

Modern building installation enables a high degree of functionality and simultaneously complies with increased security requirements. Due to the structured installation of the electrical components, it is possible to carry out rapid planning, installation and setup as well as achieve cost benefits during operation.

Modern sun protection devices have a significant role, as they must fulfil many demands:
- Anti-glare protection (e.g. PC workstations)
- Utilization of daylight by tracking the sun's position and directing available daylight
- Protecting furniture and carpets from fading
- Regulating the room temperature (overheating protection in summer; harvesting the available energy on cold days)
- Providing protection from people looking in from the outside
- Protection against intruders.

With the Blind/Roller Shutter Actuators JRA/S, the complex requirements on a sustainable and energy efficient automatic sun protection control can be implemented in offices, residential and functional buildings via ABB i-bus® KNX.

The Blind/Roller Shutter Actuators are ideal for the control of drives in the area of sun protection:
- Blinds, exterior blinds, slat blinds and panel curtains
- Roller shutters, roller blinds, screens, vertical blinds
- Awnings, pleated blinds, pleated curtains, etc.

Optimum room air quality via automatic ventilation
The demands for the reduction of energy consumption often results in poor ventilation in today's heavily insulated buildings. The quality of the room air does not comply with the desired and required level.
Natural ventilation is often an effective and efficient method for exchanging the "used" room air and improving the air quality in the room. If the air quality in the room is monitored with sensors (temperature, humidity, CO_2 concentration), the ventilation flaps can be opened automatically and in good time ensuring that the air quality is kept in a comfortable range.

Blind/Roller Shutter Actuators are ideal for control of ventilation elements such as
- Ventilation flaps
- Roof hatches, skylights
- Windows, doors and gates



ABB i-bus® KNX
Shading Control







Automatic travel detection
Travel times for the connected drives can be easily determined during operation with the automatic travel detection feature. It saves time during setup. Furthermore, compensation of age and weather-related length changes to blinds or roller shutters is assured. It facilitates precise positioning of the blinds/shutter when using sun position-dependent control.

Diagnostics
Enhanced diagnostic messages can be issued with the Blind/Roller Shutter Actuators. They are particularly useful during setup or in the event of faults. It is possible, for example, to detect and signal if the power supply to a drive is interrupted.

Copy and exchange
This function allows parameter settings of an output to be copied or exchanged with other freely selectable outputs.
This is possible within a device or in conjunction with several devices. Copy and exchange is useful particularly on projects, where all drives of a facade are controlled identically.
It shortens the setup process and reduces the possible sources of error with parameterization.

Integration in the room temperature control
The intelligent and networked blind and roller shutter control plays an important role in the energy efficient usage of a building. The level of sunlight in the room and heating up due to the sun‘s energy can be controlled in conjunction with the room climate control. The software function “overheat control” prevents unintentional overheating of a room. The blinds are closed in good time. The shutter control can be actively involved in the room temperature control – a requirement for implementing high-efficient buildings compliant to EN 15232.

	Standard					SMI	
	JRA/S X.230.5.1	**JRA/S 4.24.5.1**	**JRA/S X.230.2.1**	**JRA/S X.230.1.1**	**JRA/S 6.230.3.1**	**SJR/S 4.24.2.1**	**JA/S 4.SMI.1M**
General							
Supply voltage	KNX	KNX	KNX	KNX	KNX	KNX	KNX
Nominal voltage	230 V AC	24 V DC	230 V AC	230 V AC	230 V AC	24 V DC	230 V AC
Auxiliary voltage	–	–	–	–	–	230 V AC	230 V AC
Type of installation	DIN-Rail					DIN-Rail	
Module width (space unit)	4/4/8	4	4/4/8	4/4/8	12	4	4
Number of outputs	X = 2, 4, 8	4	X = 2, 4, 8	X = 2, 4, 8	6	4 x 4 SMI LoVo (broadcast)	4 x 4 SMI (broadcast)
Manual operation	■	■	■	–	–	■	■
Inputs							
Internal connection between Inputs and Outputs	–	–	–	–	■	–	–
Blind/shutter control; dimming and switching control; value sending	–	–	–	–	■	–	–
Manual functions							
Disable/enable manual operation	■	■	■	–	–	■	■
Status manual operation	■	■	■	–	–	■	■
Operating modes							
Control with slat adjustment (blinds, etc.)	■	■	■	■	■	■	■
Control without slat adjustment (shutters, awnings, etc.)	■	■	■	■	■	■	■
Ventilation flaps, switch mode	■	■	■	■	■	–	–
Direct mode							
Limit UP/DOWN/STOP	■	■	■	■	–	■	■
Slat adjustment	■	■	■	■	■	■	■
Position height/slat [0…255]	■	■	■	■	■	■	■
Preset Move to position/Set position	■	■	■	■	–	■	■
Limited UP/DOWN	■	■	■	■	–	■	■
Enable limitation	■	■	■	■	–	■	■
Trigger travel detection	■	■	–	–	–	–	–
Trigger reference movement	■	■	■	■	■	–	–
8-bit scene	■	■	■	■	■	■	■

—

■ = Function is supported

– = Function is not supported

ABB i-bus® KNX
Shading Control

	Standard					SMI	
	JRA/S X.230.5.1	JRA/S 4.24.5.1	JRA/S X.230.2.1	JRA/S X.230.1.1	JRA/S 6.230.3.1	SJR/S 4.24.2.1	JA/S 4.SMI.1M
Safety							
Wind/Rain/Frost alarm	■	■	■	■	■	■	■
Disable control	■	■	■	■	–	■	■
Forced operation (1-bit and 2-bit)	■	■	■	■	–	■	■
Reaction after bus voltage failure/recovery, programming	■	■	■	■	■	■	■
Automatic mode							
Activation of automatic control	■	■	■	■	■	■	■
Position height/ slat position if sunny	■	■	■	■	■	■	■
Presence	■	■	■	■	–	■	■
Heating/Cooling	■	■	■	■	–	■	■
Overheat control	■	■	■	■	–	–	–
Enable/disable automatic control	■	■	■	■	■	■	■
Enable/disable direct operation	■	■	■	■	■	■	■
Status messages							
Height/slat [0…255]	■	■	■	■	■	■	■
Upper/lower end position	■	■	■	■	■	■	■
Operability	■	■	■	■	■	■	■
Automatic	■	■	■	■	■	■	■
Status byte (2-byte)	■	■	■	■	■	–	–
SMI	–	–	–	–	–	■	■
Positions/limit position	–	–	–	–	–	■	■
Auxiliary voltage	–	–	–	–	–	■	■
SMI Diagnostic byte	–	–	–	–	–	■	■
Various							
Automatic travel detection	■	■	–	–	–	–	–
Time-delayed switching of drives	■	■	■	■	–	■	■
Limit rate of telegrams	■	■	■	■	■	–	–
Transmission and switching delay	■	■	■	■	–	–	–
In operation function	■	■	■	■	■	–	–
Request status values	■	■	■	■	■	–	–
Extended setting options for drives and blinds/shutters	■	■	■	■	■	■	■
Total turning of slats after move down command	■	■	■	■	–	–	–
Position of slat after arriving on lower end position	■	■	■	■	■	■	■
Commissioning and diagnostic function							
Control and diagnosis via ABB i-bus® Tool	■	■	■	■	–	–	–
Binary Outputs							
Relay output 6 A (number of outputs)	x = 2, 4, 8	4	x = 2, 4, 8	x = 2, 4, 8	6	–	–
Forced operation	■	■	■	■	■	–	–
Time function							
Staircae lighting, flashing, On/Off delay	–	–	–	–	■	–	–
Logic	–	–	–	–	■	–	–
Scene	–	–	–	–	■	–	–

■ = Function is supported

– = Function is not supported



JRA/S 8.230.5.1

Blind/Roller Shutter Actuator with Travel Detection, 230 V AC, Manual Operation, MDRC

For the control of independent 230 V AC drives via ABB i-bus® KNX. The devices are designed for positioning blinds, roller shutters, awnings and other shading products as well as for controlling doors, windows and ventilation flaps. Additional auxiliary voltage is not needed. The travel times of the drive are detected automatically via current detection. To protect the drives, the output contacts are electromechanically locked against each other. Push buttons are located at the front of the device to control the outputs e.g. during commissioning. The current status of the output is displayed via LEDs.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
2-fold	4	JRA/S 2.230.5.1	2CDG110124R0011		0.21	1
4-fold	4	JRA/S 4.230.5.1	2CDG110125R0011		0.25	1
8-fold	8	JRA/S 8.230.5.1	2CDG110126R0011		0.46	1



JRA/S 4.24.5.1

Blind/Roller Shutter Actuator with Travel Detection, 4-fold, 24 V AC, Manual Operation, MDRC

For the control of up to 4 independent 24 V DC drives via ABB i-bus® KNX. The device is designed for positioning blinds, roller shutters, awnings and other shading products as well as for controlling doors, windows and ventilation flaps. Additional auxiliary voltage is not needed. The travel times of the drive are detected automatically via current detection. Push buttons are located at the front of the device to control the outputs e.g. during commissioning. The current status of the output is displayed via LEDs.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	JRA/S 4.24.5.1	2CDG110128R0011		0.21	1



JRA/S 2.230.2.1

Blind/Roller Shutter Actuator, 2-fold, 230 V AC, Manual Operation, MDRC

For the control of independent 230 V AC drives via ABB i-bus® KNX. The devices are designed for positioning blinds, roller shutters, awnings and other shading products as well as for controlling doors, windows and ventilation flaps. Additional auxiliary voltage is not needed. To protect the drives, the output contacts are electromechanically locked against each other. Push buttons are located at the front of the device to control the outputs e.g. during commissioning. The current status of the output is displayed via LEDs.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
2-fold	4	JRA/S 2.230.2.1	2CDG110120R0011		0.21	1
4-fold	4	JRA/S 4.230.2.1	2CDG110121R0011		0.25	1
8-fold	8	JRA/S 8.230.2.1	2CDG110122R0011		0.46	1

ABB i-bus® KNX
Shading Control



JRA/S 2.230.1.1

Blind/Roller Shutter Actuator, 230 V AC, MDRC

For the control of independent 230 V AC drives via ABB i-bus® KNX. The devices are designed for positioning blinds, roller shutters, awnings and other shading products as well as for controlling doors, windows and ventilation flaps. Additional auxiliary voltage is not needed. To protect the drives, the output contacts are electromechanically locked against each other.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
2-fold	4	JRA/S 2.230.1.1	2CDG110129R0011		0.21	1
4-fold	4	JRA/S 4.230.1.1	2CDG110130R0011		0.25	1
8-fold	8	JRA/S 8.230.1.1	2CDG110131R0011		0.46	1



JRA/S 6.230.3.1

Blind/Roller Shutter Actuator with Binary Inputs, 6-fold, 230 V, MDRC

For the control of 6 independent Blind/ Roller drives or air dampers. Via the 12 binary input a direct operation of the outputs is possible with conventional switch sensors. The binary inputs may also be used for other operations (e.g. switching, dimming). To protect the drives, the output contacts are electromechanically locked against each other.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	12	JRA/S 6.230.3.1	2CDG110208R0011		0.55	1



6152/11 U-500

Shutter Actuator, 1-fold, FM

to be discontinued

For controlling blind or awning motors. With 3 inputs and 1 change-over output – normally open contact, potential-bound –. Rated voltage: 230 V~, +10% / – 10%, 50 Hz – 60 Hz. Input polling voltage: 5 V. Output rated current: 3 A, cos ϕ 0.8, Output voltage: 250 V~.
The bus can be connected via enclosed terminal block.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6152/11 U-500	2CKA006152A0040		0.11	1



6173/11 U-500

Combi Actuator, FM

For controlling blind or awning motors. For connecting thermoelectric actuating drives. With 3 inputs and 2 outputs. A first output (O1) allows the control of electrically-operated Venetian blinds, roller shutters, awnings, venting louvers or similar blinds for 230 V AC mains voltage. One additional electronic switching output (O2) allows silent control of electrothermal valve drives for heating or cooling systems. The bus can be connected via enclosed terminal block. Rated voltage: 230 V~, +10% / –10%, 50 Hz – 60 Hz. Input polling voltage 5V. O1: Rated current 3 A, cos ϕ 0.8; Output voltage: 250 V~. O2: Rated current: 25 mA, cos ϕ 1, Output voltage: 250 V~.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6173/11 U-500	2CKA006151A0249		0.11	1



JA/S 4.SMI.1M

SMI Shutter Actuator, 4-fold, Manual Operation, MDRC

It controls four independent groups (broadcast) with up to four SMI (Standard Motor Interface) drives (230 V) for positioning blinds, roller shutters, awnings and other shading products. Status signals (motor fault, direction of movement) can also be sent from the SMI drive on the bus. Push buttons are located at the front of the device to control the outputs e.g. during commissioning. The current status of the output is displayed via LEDs.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	JA/S 4.SMI.1M	2CDG110028R0011		0.25	1



SJR/S 4.24.2.1

SMI Blind/Roller Shutter Actuator, LoVo, 4-fold, MDRC

It controls four independent groups (broadcast) with up to four SMI (Standard Motor Interface) LoVo drives for positioning blinds, roller shutters, awnings and other shading products. Status signals (motor fault, direction of movement) can also be sent from the SMI drive on the bus. Push buttons are located at the front of the device to control the outputs e.g. during commissioning. The current status of the output is displayed via LEDs.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	SJR/S 4.24.2.1	2CDG110143R0011		0.25	1



JSB/S 1.1

Shutter Control Unit, MDRC

Controls shutter and blind actuators according to the position of the sun. The shutter control unit contains the functions of anti-glare protection and daylight redirection for up to 4 facades. Automatic shading can be implemented for every building and climatic control can be supported by the comprehensive range of parameter settings in the ETS.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	JSB/S 1.1	GHQ6310084R0111		0.12	1

Lighting Control
ABB i-bus® KNX DALI Gateways

Impressive lighting atmosphere, thanks to the DALI Gateways DG/S 1.64.5.1 and DG/S 2.64.5.1



A DALI Gateway serves as the interface between the KNX installation in the building and the digital DALI lighting control system, and therefore unites the two most important building automation standards.

ABBs DALI Gateway Premium devices enable maximum functionality and flexibility in lighting design thanks to the tunable white and color control function.

ABB i-bus® KNX

Lighting Control – DALI

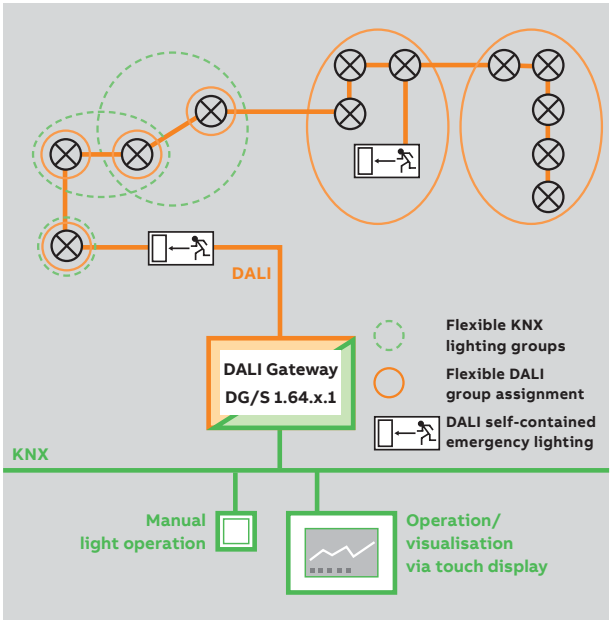
The ABB DALI Gateways are used to interface between DALI (Digital Addressable Lighting Interface) and KNX installations. Four Gateways are available:
The basic versions DG/S 1.64.1.1 DALI Gateway (1-fold) and DG/S 2.64.1.1 DALI Gateway (2-fold) and on the other hand the premium versions DG/S 1.64.5.1 DALI Gateway (1-fold) and DG/S 2.64.5.1 DALI Gateway (2-fold). All incorporate the DALI power supply.

Both, basic and premium Gateways are equipped with emergency lighting function, support the DALI standard EN 62386-202 that specifies DALI emergency lighting (self-contained).
The two DALI Gateways Premium are additionally equipped with tunable white and color control function and supports the DALI standard EN 62386-209.

DALI Gateways DG/S 1.64.x.1
Flexibility by controlling light individually per device or in groups



The DG/S 1.64.1.1 DALI Gateway Basic (1-fold) or DG/S 1.64.5.1 DALI Gateway Premium (1-fold) can install up to 64 DALI devices both via 16 flexible DALI (orange lined group) and KNX lighting groups (green dotted lined group), each with one or more DALI participants. Control and Monitoring via KNX. Control and status feedback can also be carried out via Broadcast. 16 independent Lighting scenes are available.



DALI Gateways DG/S 2.64.x.1
Maximum flexibility combined with highest amount of DALI participants and groups, to meet all customer needs



The DG/S 2.64.1.1 DALI Gateway Basic (2-fold) or DG/S 2.64.5.1 DALI Gateway Premium (2-fold) can install up to 2 x 64 DALI devices both via 2 x 16 flexible DALI (orange lined group) and KNX lighting groups (green dotted lined group), each with one or more DALI participants. Control and status feedback can also be carried out via Broadcast. 2 x 16 independent Lighting scenes are available.

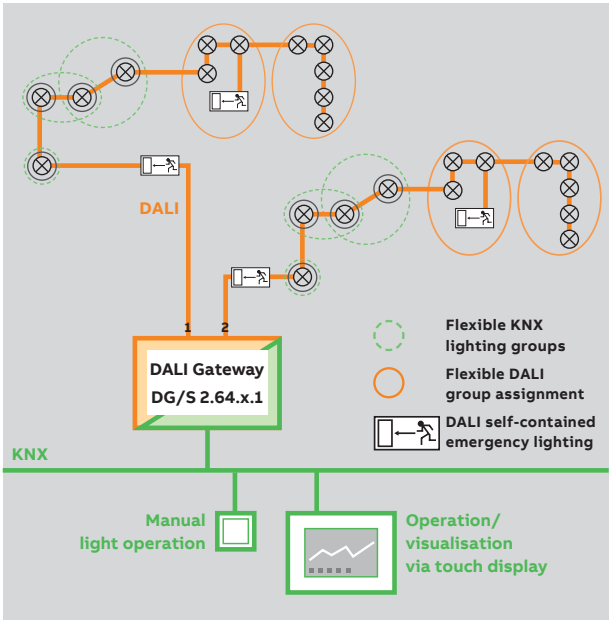


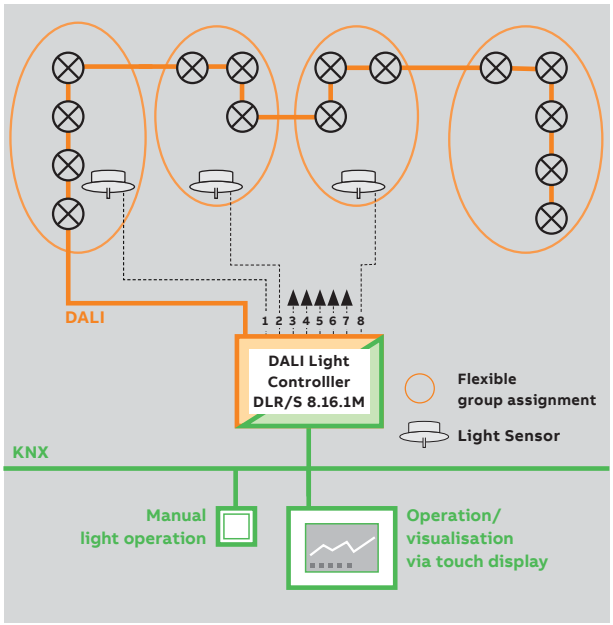
ABB i-bus® KNX

Lighting Control – DALI

DALI Light Controller DLR/S 8.16.1M
Energy through constant lighting control



Control via 16 lighting groups. Up to 8 lighting groups can be controlled with 8 light sensors. Master-slave, staircase light and Scene mode round off the functions.



DALI Light Controller DLR/A 4.8.1.1
Decentralized Constant Lighting Control



The new DALI Light Controller DLR/A 4.8.1.1 is a surface mounting device for switching and dimming of 8 independent lighting groups. A maximum of 64 DALI devices can be connected. The device can be used for 4-fold constant lighting control in connection with 4 Light Sensors LF/U 2.1. Furthermore staircase lighting and master / slave functions are provided. Fault feedback messages, e.g. concerning ballast or lamp failures, can be programmed and activated via KNX. The compact surface-mounted housing allows the decentralized installation in the underfloor or in false ceilings – optimal for the use with Room Controller RC/A.

DALI Gateway DG/S 8.1
The proven technology



Lighting groups are formed via “rigid” hardware wiring.
Fast commissioning as no addressing is necessary.
No readdressing when a ballast is exchanged. 8 x 16 DALI devices.

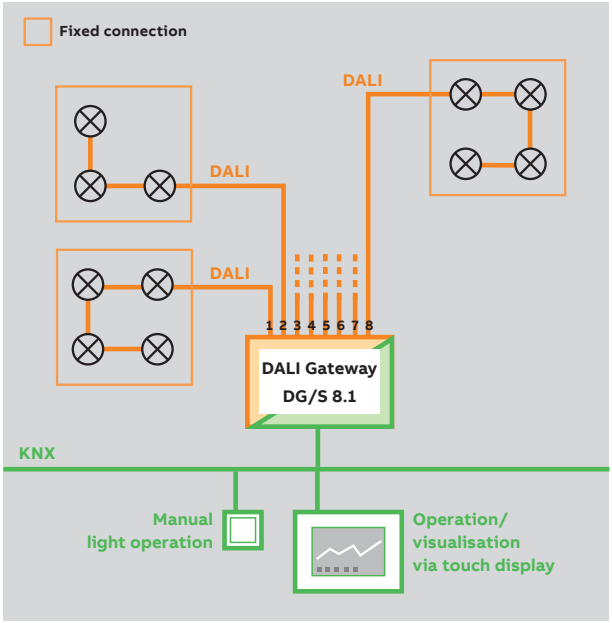


ABB i-bus® KNX

Lighting Control – DALI

		Gateways	
	DG/S 1.64.1.1	DG/S 2.64.1.1	DG/S 8.1
General			
Supply voltage	100 – 240 V AC (85...265 V AC; 110...240 V DC)	100 – 240 V AC (85...265 V AC; 110...240 V DC)	100 – 240 V AC (85...265 V AC; 110...240 V DC)
Type of installation	DIN-Rail	DIN-Rail	DIN-Rail
Module width (space unit)	4	4	6
Number of outputs	1	2	8
Light sensor inputs	–	–	–
Degree of protection	IP20	IP20	IP20
Integrated power supply	■	■	■
Number of DALI participants	64	2 x 64	8 x 16
Broadcast control	■	■	■
Number of group control	16	2 x 16	–
Individual control	64	2 x 64	–
DT1 Self-contained emergency lighting, IEC 62 386-202	■	■	–
DT8 lighting (Tunable White, Tc, RGB(W)), IEC 62 386-209	–	–	–
Manual operation	■	■	■
Supports long-frames	■	■	–
DALI firmware update via KNX	■	■	–
Functions			
Enable/disable DALI address assignment	■	■	–
Switching, dimming, set brightness	■	■	■
Human Centric Lighting (HCL)	–	–	–
Dim2Warm	–	–	–
RGB(W)*	–	–	–
HSV(W)* - Hue, Saturation and Value*	–	–	–
Load control*	–	–	–
Sequencer*	–	–	–
Individual set/dimming colour temperature per group/ ballast	–	–	–
Tunable White Presets	–	–	–
Operating hours	–	–	–
Standby shutdown	–	–	–
Slave	■	■	■
Staircase lighting	■	■	■
Burn-in	■	■	■
Scenes, 8 bit call	■	■	■
Scenes, 1 bit call	–	–	■
Forced	■	■	–
Emergency lighting test	■	■	–
Partial failure	■	■	–
Constant light control	–	–	–
Reaction on KNX bus voltage failure	■	■	■
Reaction on KNX voltage recovery	■	■	■
Reaction on DALI bus voltage failure	■	■	■
Reaction on DALI voltage recovery	■	■	■
Power on level	■	■	–
Device or lamp fault	■	■	■
Cyclic monitoring telegram	■	■	■
DALI telegram rate modifiable	■	■	–
Commissioning and diagnostic functions (ABB i-bus® Tool)			
Device assignment	■	■	–
Group assignment	■	■	–
Fault DALI device	■	■	–
Fault lamp	■	■	–
Function test (ON/OFF/brightness value)	■	■	–
Commissioning constant light control	–	–	–
Test emergency lighting	■	■	–
Broadcast on/off	–	–	–
Shows if there are unaddressed DALI participants	–	–	–

■ = Function is supported

– = Function is not supported

* = From ETS application version 2.0

	Gateways		Light Control	
	DG/S 1.64.5.1	**DG/S 2.64.5.1**	**DLR/S 8.16.1M**	**DLR/A 4.8.1.1**
General				
Supply voltage	100 – 240 V AC (85...265 V AC; 110...240 V DC)	100 – 240 V AC (85...265 V AC; 110...240 V DC)	100 – 240 V AC (85...265 V AC; 110...240 V DC)	100 – 240 V AC (85...265 V AC; 110...240 V DC)
Type of installation	DIN-Rail	DIN-Rail	DIN-Rail	SM
Module width (space unit)	4	4	6	220 x 147 x 50 mm
Number of outputs	1	2	1	1
Light sensor inputs	–	–	8	4
Degree of protection	IP20	IP20	IP20	IP54
Integrated power supply	■	■	■	■
Number of DALI participants	64	2 x 64	64	64
Broadcast control	■	■	■	■
Number of group control	16	2 x 16	16	8
Individual control	64	2 x 64	–	–
DT1 Self-contained emergency lighting, IEC 62 386-202	■	■	–	–
DT8 lighting (Tunable White, Tc, RGB(W)), IEC 62 386-209	■	■	–	–
Manual operation	■	■	■	■
Supports long-frames	■	■	–	–
DALI firmware update via KNX	■	■	–	–
Functions				
Enable/disable DALI address assignment	■	■	■	■
Switching, dimming, set brightness	■	■	■	■
Human Centric Lighting (HCL)	■	■	–	–
Dim2Warm	■	■	–	–
RGB(W)*	■	■	–	–
HSV(W)* - Hue, Saturation and Value*	■	■	–	–
Load control*	■	■	–	–
Sequencer*	■	■	–	–
Individual set/dimming colour temperature per group/ ballast	■	■	–	–
Tunable White Presets	■	■	–	–
Operating hours	■	■	–	–
Standby shutdown	■	■	–	–
Slave	■	■	■	■
Staircase lighting	■	■	■	■
Burn-in	■	■	■	■
Scenes, 8 bit call	■	■	■	■
Scenes, 1 bit call	■	■	■	■
Forced	■	■	■	■
Emergency lighting test	■	■	–	–
Partial failure	■	■	–	–
Constant light control	–	–	■	■
Reaction on KNX bus voltage failure	■	■	■	■
Reaction on KNX voltage recovery	■	■	■	■
Reaction on DALI bus voltage failure	■	■	■	■
Reaction on DALI voltage recovery	■	■	■	■
Power on level	■	■	■	■
Device or lamp fault	■	■	■	■
Cyclic monitoring telegram	■	■	■	■
DALI telegram rate modifiable	■	■	–	–
Commissioning and diagnostic functions (ABB i-bus® Tool)				
Device assignment	■	■	■	■
Group assignment	■	■	■	■
Fault DALI device	■	■	■	■
Fault lamp	■	■	■	■
Function test (ON/OFF/brightness value)	■	■	■	■
Commissioning constant light control	–	–	■	■
Test emergency lighting	■	■	–	–
Broadcast on/off	■	■	–	–
Shows if there are unaddressed DALI participants	■	■	–	–

—

■ = Function is supported

– = Function is not supported

* = From ETS application version 2.0

ABB i-bus® KNX

Lighting Control – DALI



DG/S 1.64.1.1

DALI Gateway, Basic, MDRC

The device is used to interface between DALI and KNX installations and incorporates the DALI power supply. One/Two DALI output(s) for up to 64/2x 64 DALI participants. Control and status feedback is carried out via KNX per DALI participants (64/2x 64), with lighting groups (16/2x 64), together in broadcast or per scenes (16/2x 16). Extensive fault and error messages are available. Self-contained emergency converter (64/2x 64) acc. EN 62386-202 will be supported. By means of KNX and emergency converter, different emergency tests (e.g. function and duration test) can be triggered.
Feedback is sent. Slave-, staircase-, force-, block- and scene- function are integrated.
DALI telegram rate can change. For diagnostic use and individual change of the DALI address or group assignment a separate software tool (ABB i-bus® Tool) is available.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
1-fold	4	DG/S 1.64.1.1	2CDG110198R0011		0.18	1
2-fold	4	DG/S 2.64.1.1	2CDG110199R0011		0.19	1



DG/S 1.64.5.1

DALI Gateway, Premium, MDRC

For controlling DALI devices via the ABB i-bus® KNX. One/Two DALI output(s) for up to 64/2x 64 DALI participants. DALI power supply is integrated. Control and status feedback is carried out via KNX per DALI participants (64/2x 64), with lighting groups (16/2x 16), together in broadcast or per scenes (16/2x 16). DALI devices type DT1 (Self-contained emergency converter acc. EN 62386-202) and type DT8 (colour temperature Tc / tunable white, RGB(W) acc. EN 62386-209) will be supported. Extensive fault and error messages are available. By means of KNX and DT1 converter different emergency tests (e.g. function and duration test) can be triggered, test results are transferred back to KNX. With DT8 devices Dim2Warm, HCL, set and dim colour temperature are possible. Slave-, staircase-, force-, block- and scene-function are integrated. Feedback is sent. DALI telegram rate can change. Another function is the standby switch-off in combination with a KNX switch actuator (e.g. SA/S).
From the ETS application version 2.0 the color functions RGB(W) and HSV(W) can be used. This allows the color of a lamp to be controlled, dimmed and set. In addition to scenes, 4 sequences per DALI output can be parameterized. It is also possible to integrate the DALI Gateways into a load control system. The DALI Gateways determine the operating hours. All these features can be used for individual EVGs and DALI groups.
For diagnostic use and individual change of the DALI address or group assignment a separate software tool (ABB i-bus® Tool) is available.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
1-fold	4	DG/S 1.64.5.1	2CDG110273R0011		0.18	1
2-fold	4	DG/S 2.64.5.1	2CDG110274R0011		0.19	1



DG/S 8.1

DALI Gateway, 8-fold, MDRC

For controlling up to 128 DALI devices. There are 8 separate, independent DALI outputs/ channels available. Up to 16 DALI devices can be connected per channel. The DALI power supply is integrated in the gateway. The functions of switching, dimming, set values and fault indication for lamps and electronic ballasts are available for each output. It is possible to set the lamp burn-in time and 16 light scenes. Commissioning is simplified as no addressing or commissioning of the DALI devices is necessary.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	6	DG/S 8.1	2CDG110025R0011		0.31	1



DLR/S 8.16.1M

DALI Light Controller, 8-fold, Manual Operation, MDRC

For switching and dimming of 16 independent lighting groups. A maximum of 64 DALI devices can be connected. The device can be used for 8-fold constant lighting control in connection with eight Light Sensors LF/U 2.1. Fault feedback messages can be programmed and activated via KNX. With comfortable manual operation and status display.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	6	DLR/S 8.16.1M	2CDG110101R0011		0.26	1



DLR/A 4.8.1.1

DALI Light Controller, 4-fold, SM

Surface mounting device for switching and dimming of 8 independent groups of luminaries. Up to 64 DALI participants can be connected to one DALI control line. When combined with the light sensor LF/U 2.1 the device can be used as a 4-fold light controller for constant light control. Additionally a staircase and master/slave function is integrated.
A great number of status feedback e.g. lamp and ballast fault can be transferred from DALI to KNX. With this functions the DALI light controller is a key factor in every energy efficient building automation. With his surface mounting housing it is possible to insert the device central in false ceiling or underfloor installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	DLR/A 4.8.1.1	2CDG110172R0011		0.66	1

ABB i-bus® KNX
Lighting Control

	Universal Dim Actuators			
	UD/S x.210.2.1	**UD/S 2.300.2**	**UD/Sx.315.2.1**	**6197/15-101-500**
General				
Supply voltage	110 – 230 V AC ± 10 %, 50/60 Hz	230 V -15/+10 %, 50/60 Hz	110 – 230 V AC ± 10 %, 50/60 Hz	230 V AC ± 10 %, 50/60 Hz
Type of installation	DIN-Rail	DIN-Rail	DIN-Rail	DIN-Rail
Module width (space unit)	6/8	4	4/8/12	8/12
Number of outputs	4/6	2	2/4/6	1, 4, 6
Maximum load per channel	4 x 210 W (1 x 600 W)/ 6 x 210 W (1 x 800 W)	2 x 300 W, or 1x 500 W/VA	2 x 315 W (1 x 500 W) 4 x 315 W (2 x 500 W) 6 x 315 W (2 x 700 W or 3 x 500 W)	210, 315, 600, 1260, 2400 VA
Incoming supply	4/6 phase inputs	2 phase inputs	2/4/6 phase inputs	3 phase inputs
Load types				
230 V incandescent lamps	■	■	■	■
230 V halogen lamps	■	■	■	■
Low-voltage halogen lamps with conventional transformers or electronic transformers	■	■	■	■
LED strips or 12/24 V lamps	–	–	–	–
LED Retrofit 230 V	■	–	–	■ 1)
Grouping of channels for load increase	■	■ 2)	■ 3)	■
Switching				
Brightness value when turned on	■	■	■	■
Dimming speed for switching on and off	■	■	■	■
Dimming				
Min. and max. dimming values	■	■	■	■
Switching on/off via rel. dimming	■	■	■	■
Further functions				
Forced operation	■	■	■	–
Dimming curve adjustment	■	■	■	■
Reaction on bus voltage failure	■	■	■	■
Behavior on bus voltage recovery	■	■	■	■
Status feedback	■	■	■	■
Blocking channel	■	■	■	■
Scenes	■	■	■	■
Phase angle control: automatic, leading or trailing edge	■	■	■	■
Additional logic functions	■	–	■	■
Staircase lighting	■	■	■	■

■ = Function is supported

– = Function is not supported

1) = Selected LED retrofit lamps are tested and approved. Restrictions have to be observed Details see Busch-Dimmer® Tool (www.busch-jaeger.com)

2) = One channel uses 500 W

3)= See maximum load per channel

	LED Dimmer with constant curve	
	6155/30-500 1–4-fold	**6155/40-500 1–4-fold with power supply**
General		
Supply voltage	12...24 V DC	230 V AC ± 10%, 50/60 Hz
Type of installation	Wall (surface)	Wall (surface)
Module width (space unit)	–	–
Number of outputs	4	4
Maximum load per channel	1 x 10 A/ 4 x 2.5 A	1 x 4 A/ 4 x 1 A
Incoming supply	1 phase input	1 phase input
Load types		
230 V incandescent lamps	–	–
230 V halogen lamps	–	–
Low-voltage halogen lamps with conventional transformers or electronic transformers	–	–
LED strips or 12/24 V lamps	■	■
LED Retrofit 230 V	–	–
Grouping of channels for load increase	■	■
Switching		
Brightness value when turned on	■	■
Dimming speed for switching on and off	■	■
Dimming		
Min. and max. dimming values	■	■
Switching on/off via rel. dimming	■	■
Further functions		
Forced operation	–	–
Dimming curve adjustment	–	–
Reaction on bus voltage failure	–	–
Behavior on bus voltage recovery	■	■
Status feedback	■	■
Blocking channel	■	■
Scenes	■	■
Phase angle control: automatic, leading or trailing edge	–	–
Additional logic functions	–	–
Staircase lighting	–	–

—

■ = Function is supported

– = Function is not supported

ABB i-bus® KNX
Lighting Control

	Switch/Dim Actuators			Constant Light Control	
	SD/S 2.16.1	**SD/S 4.16.1**	**SD/S 8.16.1**	**LR/S 2.16.1**	**LR/S 4.16.1**
General					
Supply voltage	KNX	KNX	KNX	KNX	KNX
Type of installation	DIN-Rail	DIN-Rail	DIN-Rail	DIN-Rail	DIN-Rail
Module width (space unit)	4	6	8	4	6
Number of outputs 1-10 V (passive)	2	4	8	2	4
Manual operation	■	■	■	■	■
Maximum current per control output	100 mA	100 mA	100 mA	100 mA	100 mA
Maximum cable length at maximum load (100 mA)	70 m (cable cross-section 0.8 mm^2) 100 m (cable cross-section 1.5 mm^2)	70 m (cable cross-section 0.8 mm^2) 100 m (cable cross-section 1.5 mm^2)	70 m (cable cross-section 0.8 mm^2) 100 m (cable cross-section 1.5 mm^2)	70 m (cable cross-section 0.8 mm^2) 100 m (cable cross-section 1.5 mm^2)	70 m (cable cross-section 0.8 mm^2) 100 m (cable cross-section 1.5 mm^2)
Light sensor (LF/U 2.1)	–	–	–	2	4
Maximum cable length per sensor (P-YCYM or J-Y(ST)Y cable (SELV), diameter 0.8 mm	–	–	–	100 m	100 m
Power loss per device at max. load	2.6 W	5.2 W	10.4 W	2.6 W	5.2 W
Switching capacity					
Rated current I_n	16 A AC1	16 A AC1	16 A AC1	16 A AC1	16 A AC1
Rated voltage U_n	250/440 V AC	250/440 V AC	250/440 V AC	250/440 V AC	250/440 V AC
AC1 operation (cos ϕ = 0.8) DIN EN 60 947-4-1	16 A	16 A	16 A	16 A	16 A
AC3 operation (cos ϕ = 0.45) DIN EN 60 947-4-1	8 A/ 230 V	8 A/ 230 V	8 A/ 230 V	8 A/ 230 V	8 A/ 230 V
Fluorescent lighting load AX DIN EN 60 669-1	10 A (140 µF) 1)	10 A (140 µF) 1)	10 A (140 µF) 1)	10 A (140 µF) 1)	10 A (140 µF) 1)
Minimum switching capacity	100 mA/12 V	100 mA/12 V	100 mA/12 V	100 mA/12 V	100 mA/12 V
DC current switching capacity (resistive load)	10 A/24 V DC	10 A/24 V DC	10 A/24 V DC	10 A/24 V DC	10 A/24 V DC
Mechanical service life	> 3 x 10^6	> 3 x 10^6	> 3 x 10^6	> 3 x 10^6	> 3 x 10^6
Electronic endurance to DIN IEC 60 947-4-1					
Rated current AC1 (240 V/cos ϕ = 0.8)	100,000	100,000	100,000	100,000	100,000
Rated current AC3 (240 V/cos ϕ = 0.45)	30,000	30,000	30,000	30,000	30,000
Rated current AC5a (240 V/cos ϕ = 0.45)	30,000	30,000	30,000	30,000	30,000
Incandescent lamp load at 230 V AC	2,300 W	2,300 W	2,300 W	2,300 W	2,300 W
Fluorescent lamps T5/T8					
Uncorrected	2,300 W	2,300 W	2,300 W	2,300 W	2,300 W
Parallel compensated	1,500 W	1,500 W	1,500 W	1,500 W	1,500 W
DUO circuit	1,500 W	1,500 W	1,500 W	1,500 W	1,500 W
Low-voltage halogen lamps					
Inductive transformer	1,200 W	1,200 W	1,200 W	1,200 W	1,200 W
Electronic transformer	1,500 W	1,500 W	1,500 W	1,500 W	1,500 W
Halogen lamp 230 V	2,500 W	2,500 W	2,500 W	2,500 W	2,500 W
Dulux lamps					
Uncorrected	1,100 W	1,100 W	1,100 W	1,100 W	1,100 W
Parallel compensated	1,100 W	1,100 W	1,100 W	1,100 W	1,100 W
Mercury-vapour lamps					
Inductive transformer	2,000 W	2,000 W	2,000 W	2,000 W	2,000 W
Electronic transformer	2,000 W	2,000 W	2,000 W	2,000 W	2,000 W

■ = Function is supported

– = Function is not supported

1) = The maximum peak inrush current may not be exceeded

	Switch/Dim Actuators			Constant Light Control	
	SD/S 2.16.1	**SD/S 4.16.1**	**SD/S 8.16.1**	**LR/S 2.16.1**	**LR/S 4.16.1**
Sodium-vapour lamps					
Inductive transformer	2,000 W	2,000 W	2,000 W	2,000 W	2,000 W
Electronic transformer	2,000 W	2,000 W	2,000 W	2,000 W	2,000 W
Max. peak inrush-current I_p (150 µs)	400 A	400 A	400 A	400 A	400 A
Max. peak inrush-current I_p (250 µs)	320 A	320 A	320 A	320 A	320 A
Max. peak inrush-current I_p (600 µs)	200 A	200 A	200 A	200 A	200 A
Number of ballasts (T5/T8, single element) e.g.[1)]					
18 W (ABB EVG 1 x 18 SF)	23	23	23	23	23
24 W (ABB EVG 1 x 24 CY)	23	23	23	23	23
36 W (ABB EVG 1 x 36 CF)	14	14	14	14	14
58 W (ABB EVG 1 x 58 CF)	11	11	11	11	11
80 W (Helvar EL 1 x 80 SC)	10	10	10	10	10

	Switch/Dim Actuators			Constant Light Control	
	SD/S 2.16.1	**SD/S 4.16.1**	**SD/S 8.16.1**	**LR/S 2.16.1**	**LR/S 4.16.1**
Functions					
Brightness control	–	–	–	■	■
Brightness value	■	■	■	■	■
Dimming speed for transition brightness values	■	■	■	■	■
Min. and max. value limits	■	■	■	■	■
Set switching on and off via value	■	■	■	■	■
Presets	■	■	■	■	■
Scenes	■	■	■	■	■
Switch					
Brightness value when turned on	■	■	■	■	■
Dimming speed for switching on and off	■	■	■	■	■
Dimming					
Dimming speed can be changed via KNX	■	■	■	■	■
Min. and max. dimming values	■	■	■	■	■
Switching on/off via rel. dimming	■	■	■	■	■
Forced operation					
2-bit coded forced operation	■	■	■	■	■
Behaviour after voltage recovery	■	■	■	■	■
Block Activate output via 1-bit object	■	■	■	■	■
Special					
4-point characteristic adjustment	■	■	■	■	■
Preference with bus voltage failure	■	■	■	■	■
Status feedback	■	■	■	■	■
Additional					
Slave mode e.g. for integration in the constant lighting control	■	■	■	■	■
Staircase lighting	■	■	■	■	■
Prewarning via dimming and/or KNX object	■	■	■	■	■
Commissioning and diagnostic functions					
Control and diagnosis via ABB i-bus® Tool	–	–	–	■	■

—

■ = Function is supported

– = Function is not supported

1) = For multiple element lamps or other types, the number of electronic ballasts must be determined using the peak inrush current of the electronic ballasts

ABB i-bus® KNX
Lighting Control



LR/S 4.16.1

Light Controller, 1-10 V, MDRC

The device enables the switching and dimming of 2 or 4 independent lighting circuits in conjunction with electronic ballasts. In combination with the Light Sensor LF/U 2.1, the device can be used for constant lighting control. 2 or 4 light sensors can be connected to the controller for precise detection of the lighting conditions.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
2-fold	4	LR/S 2.16.1	2CDG110087R0011		0.25	1
4-fold	6	LR/S 4.16.1	2CDG110088R0011		0.40	1



LF/U 2.1

Light Sensor, FM

Used for implementing constant lighting control applications in conjunction with light controllers LR/S, LR/M, DLR/S 8.16.1M or DLR/A 4.8.1.1. The scope of delivery includes different optical rods, the connection terminals and the cover for discrete fitting in a room.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	LF/U 2.1	2CDG110089R0011		0.07	1



SD/S 8.16.1

Switch/Dim Actuator, 16 A, MDRC

Used for switching and dimming of 2, 4 or 8 independent groups of luminaries with electronic ballasts with 1 – 10 V control interfaces. On each channel the power supply of the ballasts is switched by a floating load relay (16 A – AC1). Every output can be operated manually and features display of the switching state. The device can assume a range of applications thanks to the programming options.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
2-fold	4	SD/S 2.16.1	2CDG110079R0011		0.21	1
4-fold	6	SD/S 4.16.1	2CDG110080R0011		0.32	1
8-fold	8	SD/S 8.16.1	2CDG110081R0011		0.56	1



UD/S 4.210.2.1

LED Dimmer, 4-fold, 210 W/VA, MDRC

Multichannel universal dimming actuator optimized for dimming of retrofit LED lamps (LEDi). Also suitable for dimming of incandescent lamps, low-voltage halogen lamps with conventional or electronic transformers, 230 V incandescent halogen lamps and dimmable halogen energy-saving lamps. Automatic load detection (deactivatable). One separate N-terminal per channel. Channel bridging possible in order to increase the maximum load. Outputs can be switched in parallel as required. Minimum load: 2 W. Manual operation on the device is possible also without bus voltage or in unprogrammed state. One LED control button per channel (including status indication) for ON and OFF switching as well as for up and down dimming. Programming of the device is possible without connecting 230 V supply voltage. Comprehensive test and diagnostic functions via the i-bus® Tool. Fast parameterization in the ETS by means of copyable channel templates. With integrated bus coupler.
Rated power at 230 V ~:

- 230 V ~ incandescent and halogen lamps: 4 x 210 W/VA to 1 x 600 W/VA.
- Dimmable 230 V ~ LEDi: 4 x 210 W/VA to 1 x 600 W/VA in trailing edge mode, 4 x 80 W/VA to 1 x 200 W/VA in leading edge mode.
- Inductive L-transformers with LED/low-voltage halogen lamps: 4 x 210 W/VA to 1 x 600 W/VA.
- Electronic C-transformers with LED/low voltage halogen lamps: 4 x 210 W/VA to 1 x 600 W/VA.
- Electronic LC transformers with LED/low-voltage halogen lamps: 4 x 80 W/VA to 1 x 200 W/VA.

Recommendation: Always use bulbs of one type and manufacturer.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
4-fold	6	UD/S 4.210.2.1	2CKA006197A0047		0.28	1



UD/S 6.210.2.1

LED Dimmer, 6-fold, 210 W/VA, MDRC

Multichannel universal dimming actuator optimized for dimming of retrofit LED lamps (LEDi). Also suitable for dimming of incandescent lamps, low-voltage halogen lamps with conventional or electronic transformers, 230 V incandescent halogen lamps and dimmable halogen energy-saving lamps. Automatic load detection (deactivatable). One separate N-terminal per channel. Channel bridging possible in order to increase the maximum load. Outputs can be switched in parallel as required. Minimum load: 2 W. Manual operation on the device is possible also without bus voltage or in unprogrammed state. One LED control button per channel (including status indication) for ON and OFF switching as well as for up and down dimming. Programming of the device is possible without connecting 230 V supply voltage. Comprehensive test and diagnostic functions via the i-bus® Tool. Fast parameterization in the ETS by means of copyable channel templates. With integrated bus coupler.
Rated power at 230 V ~:

- 230 V ~ incandescent and halogen lamps: 6 x 210 W/VA to 1 x 800 W/VA.
- Dimmable 230 V ~ LEDi: 6 x 210 W/VA to 1 x 800 W/VA in trailing edge mode, 6 x 80 W/VA to 1 x 240 W/VA in leading edge mode.
- Inductive L-transformers with LED/low-voltage halogen lamps: 6 x 210 W/VA to 1 x 800 W/VA.
- Electronic C-transformers with LED/low voltage halogen lamps: 6 x 210 W/VA to 1 x 800 W/VA.
- Electronic LC transformers with LED/low-voltage halogen lamps: 6 x 80 W/VA to 1 x 240 W/VA.

Recommendation: Always use bulbs of one type and manufacturer.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
6-fold	8	UD/S 6.210.2.1	2CKA006197A0049		0.58	1

ABB i-bus® KNX
Lighting Control



UD/S 2.315.2.1

LED Dimmer, 2-fold, 315 W/VA, MDRC

Multichannel universal dimming actuator optimized for dimming of retrofit LED lamps (LEDi). Also suitable for dimming of incandescent lamps, low-voltage halogen lamps with conventional or electronic transformers, 230 V incandescent halogen lamps and dimmable halogen energy-saving lamps. Automatic load detection (deactivatable). One separate N-terminal per channel. Channel bridging possible in order to increase the maximum load. Outputs can be switched in parallel in groups as required. Minimum load: 2 W. Manual operation on the device is possible also without bus voltage or in unprogrammed state. One LED control button per channel (including status indication) for ON and OFF switching as well as for up and down dimming. Programming of the device is possible without connecting 230 V supply voltage. Comprehensive test and diagnostic functions via the i-bus® Tool. Fast parameterization in the ETS by means of copyable channel templates. With integrated bus coupler.

Rated power at 230 V ~:

- 230 V ~ incandescent and halogen lamps: 2 x 315 W/VA to 1 x 500 W/VA.
- Dimmable 230 V ~ LEDi: 2 x 315 W/VA to 1 x 500 W/VA.in trailing edge mode,
- 2 x 120 W/VA to 1 x 200 W/VA in leading edge mode.
- Inductive L-transformers with LED/low-voltage halogen lamps: 2 x 315 W/VA to 1 x 500 W/VA.
- Electronic C-transformers with LED/low voltage halogen lamps: 2 x 315 W/VA to 1 x 500 W/VA.
- Electronic LC transformers with LED/low-voltage halogen lamps: 2 x 120 W/VA to 1 x 200 W/VA.

Recommendation: Always use bulbs of one type and manufacturer.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	UD/S 2.315.2.1	2CKA006197A0053		0.29	1



UD/S 4.315.2.1

LED Dimmer, 4-fold, 315 W/VA, MDRC

Multichannel universal dimming actuator optimised for dimming retrofit LED lamps (LEDi). Also suitable for dimming incandescent lamps, low-voltage halogen lights with conventional or electronic transformers, 230 V halogen lamps and dimmable energy-saving halogen lamps. Automatic load detection (can be deactivated). Separate N-connection per channel. Parallel connection of the outputs possible to increase the output power. Outputs can be connected in parallel in groups. Minimum load: 2 W. Manual operation on device also possible without bus voltage or in an unprogrammed status. Programming of the device also possible without applied 230 V supply voltage. Extensive test and diagnosis functions for the i-bus® Tool. Fast parameter setting in ETS using copyable channel templates. With integrated bus coupler.

Nominal power at 230 V~ mains voltage:

- 230 V~ incandescent and halogen lamps: 4 x 315 W/VA to 2 x 500 W/VA in trailing edge control, 4 x 120 W/VA to 2 x 200 W/VA in leading edge control.
- Dimmable 230 V~ LEDi: 4 x 315 W/VA to 2 x 500 W/VA in trailing edge control, 4 x 120 W/VA to 2 x 200 W/VA in leading edge control.
- Inductive L-transformers with LED/low-voltage halogen lamp: 4 x 315 W/VA to 2 x 500 W/VA. Electronic C-transformers with LED/low-voltage halogen lamp: 4 x 315 W/VA to 2 x 500 W/VA.
- Electronic LC-transformers with LED/low-voltage halogen lamp: 4 x 120 W/VA to 2 x 200 W/VA.

Recommendation: Always use bulbs of one type and manufacturer.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	8	UD/S 4.315.2.1	2CKA006197A0057		0.56	1



UD/S 6.315.2.1

LED Dimmer, 6-fold, 315 W/VA, MDRC

Multichannel universal dimming actuator optimized for dimming of retrofit LED lamps (LEDi). Also suitable for dimming of incandescent lamps, low-voltage halogen lamps with conventional or electronic transformers, 230 V incandescent halogen lamps and dimmable halogen energy-saving lamps. Automatic load detection (deactivatable). One separate N-terminal per channel. Channel bridging possible in order to increase the maximum load. Outputs can be switched in parallel in groups as required. Minimum load: 2 W. Manual operation on the device is possible also without bus voltage or in unprogrammed state. One LED control button per channel (including status indication) for ON and OFF switching as well as for up and down dimming. Programming of the device is possible without connecting 230 V supply voltage. Comprehensive test and diagnostic functions via the i-bus® Tool. Fast parameterization in the ETS by means of copyable channel templates. With integrated bus coupler.

Rated power at 230 V ~:

- 230 V ~ incandescent and halogen lamps: 6 x 315 W/VA, 2 x 700 W/VA to 3 x 500 W/VA.
- Dimmable 230 V ~ LEDi: 6 x 315 W/VA, 2 x 700 W/VA to 3 x 500 W/VA in trailing edge mode,
- 6 x 120 W/VA, 2 x 250 W/VA to 3 x 300 W/VA in leading edge mode.
- Inductive L-transformers with LED/low-voltage halogen lamps: 6 x 315 W/VA, 2 x 700 W/VA to 3 x 500 W/VA.
- Electronic C-transformers with LED/low voltage halogen lamps: 6 x 315 W/VA, 2 x 700 W/VA to 3 x 500 W/VA.
- Electronic LC transformers with LED/low-voltage halogen lamps: 6 x 120 W/VA, 2 x 250 W/VA to 3 x 300 W/VA.

Recommendation: Always use bulbs of one type and manufacturer.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	12	UD/S 6.315.2.1	2CKA006197A0061			1



6197/15-101-500

Universal Dim Actuator, MDRC **to be discontinued**

Multi-channel universal dimming actuator for control of incandescent lamps, 230 V halogen lamps, lowvoltage halogen lamps with conventional or electronic transformers and dimmable energy-efficient lamps. Optimized for dimming of Philips retrofit LEDs (LEDi).
Parallel connection of channels to increase load capacity via wire jumpers possible.
Status/state indication of the outputs via LED. Local operation even without bus voltage or in non-programmed state possible.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
4-fold, 600 VA	12	6197/15-101-500	2CKA006197A0039		0.91	1

ABB i-bus® KNX
Lighting Control



6155/30-500

Build-In-Dimmer with constant curve for LED-strips RGBW, 4-fold
Build-in LED-Dimmer for LED strips with constant curve. To control RGB or RGBW-LEDs. Grouping of channels possible. With Master/Slave-function and internal load management. Connections: KNX-line: Bus connection terminal. Rated voltage: 12 - 24 V. Output voltage: 12 V. Secondary: 24 V. Rated frequency: 600 Hz. Outputs: 4x dimming channel. Suitable for: DC. Rated current: 10 A. Rated power: 240 W. Protection class (Device): IP 20.
Temperature range (Device): –5 °C to 45 °C.
Dimensions: (L x W x D): 33 mm x 53 mm x 95 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6155/30-500	2CKA006151A0254		0.185	1



6155/40-500

Build-In-Dimmer with constant curve for LED-strips RGBW, 4-fold, with integrated power supply
Build-in LED-Dimmer for LED strips with constant curve. To control RGB or RGBW-LEDs. With integrated power adapter. Grouping of channels possible. With Master/Slave-function and internal load management. Connections: KNX-line: Bus connection terminal. Rated voltage: 230 V~. Output voltage: 24 V~. Rated frequency: 600 Hz. Outputs: 4x dimming channel. Suitable for: DC. Rated current: 4 A. Rated power: 100 W. Protection class (Device): IP 20.
Temperature range (Device): –5 °C to 45 °C.
Dimensions: (L x W x D): 45 mm x 53 mm x 226 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6155/40-500	2CKA006151A0256		0.4	1



HS/S 4.2.1

Outside Light Sensor Interface, MDRC

The device is used for the connection and evaluation of up to 3 Outside Light Sensors LFO/A 1.1. The Outside Light Sensors can be analysed individually or combined. Amongst others 10 logical switching channels for the evaluation of threshold values are provided. Threshold values can be adjusted directly on the device. The device can be used as a twilight switch (1 ... 100 lx) or as a light value switch (100 ... 100.000 lx). One Outside Light Sensor LFO/A 1.1 is supplied with the device.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	3	HS/S 4.2.1	2CDG120044R0011		0.24	1



LFO/A 1.1

Outside Light Sensor for HS/S4.2.1, SM

Outside Light Sensor for the connection with the Interface HS/S 4.2.1.
Temperature range (sensor): –40 °C to +70 °C.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	LFO/A 1.1	2CDG120045R0011		0.05	1

ABB i-bus® KNX

Movement and Presence Detection

	Mini Basic 6131/20-xxx-500	Mini Premium 6131/21-xxx-500	Basic 6131/30-xxx-500	Premium 6131/31-xxx-500	Sky 6131/40-xxx-500	Corridor Basic 6131/50-xxx-500	Corridor Premium 6131/51-xxx-500
General							
Supply voltage	KNX	KNX	KNX	KNX	KNX	KNX	KNX
Type of installation	flush-mounted/ surface-mounted	flush-mounted/ surface-mounted	flush-mounted/ surface-mounted	flush-mounted/ surface-mounted	flush-mounted/ surface-mounted	flush-mounted/ surface-mounted	flush-mounted/ surface-mounted
Programming button accessible from outside	■	■	■	■	–	■	■
Detection range diameter (sitting / walking person)						**Corridor: only walking person**	**Corridor: only walking person**
Installation height 2.5 m	Max. 5.0 m/ 6.5 m	Max. 5.0 m/ 6.5 m	Max. 8.0 m/ 10.0 m	Max. 8.0 m/ 10.0 m	–	Frontal: max. 18 x 2,5 m; Lateral: max. 24 x 2,5 m	Frontal: max. 18 x 2,5 m; Lateral: max. 24 x 2,5 m
Installation height 3.0 m	Max. 6.5 m/ 8.0 m	Max. 6.5 m/ 8.0 m	Max. 10.0 m/ 12.0 m	Max. 10.0 m/ 12.0 m	–	Frontal: max. 20 x 3 m; Lateral: max. 30 x 3 m	Frontal: max. 20 x 3 m; Lateral: max. 30 x 3 m
Installation height 4.0 m	Max. 9.0 m/ 10.5 m	Max. 9.0 m/ 10.5 m	Max. 14.0 m/ 16.0 m	Max. 14.0 m/ 16.0 m	–	Frontal: max. 20 x 3 m; Lateral: max. 30 x 3 m	Frontal: max. 20 x 3 m; Lateral: max. 30 x 3 m
Installation height 6.0 m	–	–	–	–	Max. 18.0 m	–	–
Installation height 12.0 m	–	–	–	–	Max. 24.0 m	–	–
Number of channels							
Movement detector	2	4 in total	2	4 in total	2	2	4 in total
Constant light switch	2	4 in total	2	4 in total	2	2	4 in total
Combination	1 x each	4 in total	1 x each	4 in total	1 x each	1 x each	4 in total
Constant light controller	–	2	–	2	–	–	2
Heating/cooling/ventilation systems (HVAC)	–	1	–	1	–	–	1
Infrared receiver, can be operated via IR remote control 6010-25	–	10 button pairs + 4 single buttons/ 24 single buttons	–	10 button pairs + 4 single buttons/ 24 single buttons	(only red for activation of the programming mode)	–	10 button pairs + 4 single buttons/ 24 single buttons
Two power-off stages							
Movement detector	■	■	■	■	■	■	■
Constant light control	–	■	–	■	–	–	■

■ = Function is supported

– = Function is not supported

	Mini Basic 6131/20-xxx-500	Mini Premium 6131/21-xxx-500	Basic 6131/30-xxx-500	Premium 6131/31-xxx-500	Sky 6131/40-xxx-500	Corridor Basic 6131/50-xxx-500	Corridor Premium 6131/51-xxx-500
Application							
Surveillance detector	■	■	■	■	■	■	■
Movement detector	■	■	■	■	■	■	■
Presence detector	■	■	■	■	–	■	■
Constant light switch	■	■	■	■	■	■	■
Controller independent of movement	–	■	–	■	–	–	■
Various							
Integrated object room temperature controller with temperature sensor	–	1	–	1	–	–	1
Brightness measurement	■	■	■	■	■	■	■
Calibration of brightness sensor via ETS group objects	■	■	■	■	■	■	■
Programming mode can be activated via IR remote control 6010-25	–	■	–	■	■	–	■
Programming LED can be activated via ETS group objects	■	■	■	■	■	■	■
Number of logic functions (4 different ones)	–	5	–	5	–	–	5

—

■ = Function is supported

– = Function is not supported

ABB i-bus® KNX

Movement and Presence Detection



6131/20-24-500

Busch-Presence Detector, Mini, Basic, 8 Meter, SM
Presence detector with 4 individual PIR sensors (single switch-off) and 2 independent channels. Detection range (for mounting height 2.5 m, 3 m and 4 m): 360° (circular). Seated persons Ø: 5 m, 6,5 m and 9 m. Walking persons Ø: 6,5 m, 8 m and 10,5 m.
Sensitivity of the watchdog adjustable via ETS-parameter.
Operating modes: Automatic, Automatic switch-off/switch-on (depending on detector application). For switching on/off light bands depending on the room brightness.
Regulation in response to the movement possible.
Using the device as presence and/or movement detector.
2 channels for detector application with integrated monitoring function or up to 2 channels for constant light switch application (max. 2 outputs for brightness dependent switching of two light bands in the area).
Integrated brightness sensor.
Weighting of up to 2 external brightness values and the internal brightness sensor possible.
Brightness range: 1 - 1000 Lux.
Brightness adjustment via KNX communication objects.
Two-stage switch-off with delay time and reduced brightness.
The KNX programming button is accessible without demounting the detector.
The KNX programming LED can be activated for the walk-test function via KNX.
With integrated KNX bus coupler and power supply via KNX bus.
Scene control via KNX.
Easy Master-Slave operation of several presence detectors possible.
Firmware update via ETS and KNX Firmware Update App.
Mounting height: 2 m - 4 m.
Suitable for false ceilings with a board thickness from 9 to 25 mm in combination with a spring clip.
Hole size: Ø 68 mm.
Suitable for surface mounting installations in combination with the surface-mounted box 6131/29-xxx(-500).
Cannot be installed in British Standard or VDE flush-mounted box.
Recommendation: Installation housing from Kaiser HaloX-O (Art.no. 1290-40) with corresponding cover plates (1290-47 or 1290-85 for fair faced concrete) or IBTronic H120-68 from Spelsberg.
Dimensions: (L x W x D): 80 mm x 80 mm x 45 mm.
Visible height: 16 mm.
Mounting depth: 29 mm.
Temperature range (device): –5 °C – 45 °C.
Storage temperature range: –25 °C – 55 °C.
Transport temperature range: –25 °C – 70 °C.
Protection class (device): IP 20.
For software and description please check the current Online-Catalogue.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white matt	–	6131/20-24-500	2CKA006132A0342		0.13	1
aluminium silver	–	6131/20-183-500	2CKA006132A0343		0.13	1



6131/21-24-500

Busch-Presence Detector, Mini, Premium, 8 Meter, SM
Presence detector with 4 individual PIR sensors (single switch-off) and 4 independent channels. Detection range (for mounting height 2.5 m, 3 m and 4 m): 360° (circular).
Seated persons Ø: 5 m, 6,5 m and 9 m. Walking persons Ø: 6,5 m, 8 m and 10,5 m.
Sensitivity of the watchdog adjustable via ETS-parameter.
Operating modes: Automatic, Automatic switch-off/switch-on (depending on detector application). For dimming/control the brightness to a defined value in the detection area.
4 channels for detector application with integrated monitoring function
or up to 4 channels for constant light switch application (max. 2 outputs for brightness dependent switching of two light bands in the area)
or up to 2 channels for constant light control (max. 2 outputs for dimming daylight control/ control of two rooflights in the room)
or up to 1 channel for HVAC functions for controlling heating and/or cooling systems and ventilation systems in the detection area. Integrated brightness sensor.
Weighting of up to 2 external brightness values and the internal brightness sensor possible.
Brightness range: 1 - 1000 Lux. Brightness adjustment via KNX communication objects.
Two-stage switch-off with delay time and reduced brightness.
Incl. 5 logic functions (logic gates, gates, delay and staircase lighting).
Integrated object room temperature controller with temperature sensor.
The KNX programming button is accessible without demounting the detector.
The KNX programming LED can be activated for the walk-test function via KNX.
With integrated KNX bus coupler and power supply via KNX bus. Scene control via KNX.
Easy Master-Slave operation of several presence detectors possible.
Firmware update via ETS and KNX Firmware Update App.
Integrated IR receiver for activation of the KNX programming mode via the IR remote control 6010-25(-500) and 10 freely programmable IR channels (blue and/or white function buttons).
Alternatively via a teachable IR remote control with RC5 code.
Mounting height: 2 m - 4 m.
Suitable for false ceilings with a board thickness from 9 to 25 mm in combination with a spring clip.
Hole size: Ø 68 mm.
Suitable for surface mounting installations in combination with the surface-mounted box 6131/29-xxx(-500).
Cannot be installed in British Standard or VDE flush-mounted box.
Recommendation: Installation housing from Kaiser HaloX-O (Art.no. 1290-40) with corresponding cover plates (1290-47 or 1290-85 for fair faced concrete) or IBTronic H120-68 from Spelsberg.
Dimensions: (L x W x D): 80 mm x 80 mm x 45 mm.
Visible height: 16 mm.
Mounting depth: 29 mm.
Temperature range (device): –5 °C – 45 °C.
Storage temperature range: –25 °C – 55 °C.
Transport temperature range: –25 °C – 70 °C.
Protection class (device): IP 20.
For software and description please check the current Online-Catalogue.
HVAC = Heating, Ventilation and Air Conditioning

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white matt	–	6131/21-24-500	2CKA006132A0344		0.13	1
aluminium silver	–	6131/21-183-500	2CKA006132A0345		0.13	1

ABB i-bus® KNX

Movement and Presence Detection



6131/30-24-500

Busch-Presence Detector, Basic, 12 Meter, SM
Presence detector with 4 individual PIR sensors (single switch-off) and 2 independent channels. Detection range (for mounting height 2.5 m, 3 m and 4 m): 360° (circular).
Seated persons Ø: 8 m, 10 m and 14 m. Walking persons Ø: 10 m, 12 m and 16 m.
Sensitivity of the watchdog adjustable via ETS-parameter.
Operating modes: Automatic, Automatic switch-off/switch-on (depending on detector application). For switching on/off light bands depending on the room brightness.
Regulation in response to the movement possible.
Using the device as presence and/or movement detector.
2 channels for detector application with integrated monitoring function
or up to 2 channels for constant light switch application (max. 2 outputs for brightness dependent switching of two light bands in the area).
Integrated brightness sensor.
Weighting of up to 2 external brightness values and the internal brightness sensor possible.
Brightness range: 1 - 1000 Lux.
Brightness adjustment via KNX communication objects.
Two-stage switch-off with delay time and reduced brightness.
The KNX programming button is accessible without demounting the detector.
The KNX programming LED can be activated for the walk-test function via KNX.
With integrated KNX bus coupler and power supply via KNX bus.
Scene control via KNX.
Easy Master-Slave operation of several presence detectors possible.
Firmware update via ETS and KNX Firmware Update App.
Mounting height: 2 m - 4 m.
Suitable for false ceilings with a board thickness from 9 to 25 mm in combination with a spring clip.
Hole size: Ø 68 mm.
Suitable for surface mounting installations in combination with the surface-mounted box 6131/29-xxx(-500) or intermediate ring for VDE flush-mounted box 6131/38-xxx(-500).
Cannot be installed in British Standard or VDE flush-mounted box.
Recommendation: Installation housing from Kaiser HaloX-O (Art.no. 1290-40) with corresponding cover plates (1290-47 or 1290-85 for fair faced concrete) or IBTronic H120-68 from Spelsberg.
Dimensions: (L x W x D): 91 mm x 91 mm x 45 mm.
Visible height: 23 mm.
Mounting depth: 22 mm.
Temperature range (device): –5 °C – 45 °C.
Storage temperature range: –25 °C – 55 °C.
Transport temperature range: –25 °C – 70 °C.
Protection class (device): IP 20.
For software and description please check the current Online-Catalogue.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white matt	–	6131/30-24-500	2CKA006132A0346		0.15	1
aluminium silver	–	6131/30-183-500	2CKA006132A0347		0.15	1



6131/31-24-500

Busch-Presence Detector, Premium, 12 Meter, SM
Presence detector with 4 individual PIR sensors (single switch-off) and 4 independent channels. Detection range (for mounting height 2.5 m, 3 m and 4 m): 360° (circular).
Seated persons Ø: 8 m, 10 m and 14 m. Walking persons Ø: 10 m, 12 m and 16 m.
Sensitivity of the watchdog adjustable via ETS-parameter.
Operating modes: Automatic, Automatic switch-off/switch-on (depending on detector application). For dimming/control the brightness to a defined value in the detection area.
4 channels for detector application with integrated monitoring function
or up to 4 channels for constant light switch application (max. 2 outputs for brightness dependent switching of two light bands in the area)
or up to 2 channels for constant light control (max. 2 outputs for dimming daylight control/ control of two rooflights in the room)
or up to 1 channel for HVAC functions for controlling heating and/or cooling systems and ventilation systems in the detection area.
Integrated brightness sensor.
Weighting of up to 2 external brightness values and the internal brightness sensor possible.
Brightness range: 1 - 1000 Lux.
Brightness adjustment via KNX communication objects.
Two-stage switch-off with delay time and reduced brightness.
Incl. 5 logic functions (logic gates, gates, delay and staircase lighting).
Integrated object room temperature controller with temperature sensor.
The KNX programming button is accessible without demounting the detector.
The KNX programming LED can be activated for the walk-test function via KNX.
With integrated KNX bus coupler and power supply via KNX bus.
Scene control via KNX.
Easy Master-Slave operation of several presence detectors possible.
Firmware update via ETS and KNX Firmware Update App.
Integrated IR receiver for activation of the KNX programming mode via the IR remote control 6010-25(-500) and 10 freely programmable IR channels (blue and/or white function buttons).
Alternatively via a teachable IR remote control with RC5 code.
Mounting height: 2 m - 4 m.
Suitable for false ceilings with a board thickness from 9 to 25 mm in combination with a spring clip.
Hole size: Ø 68 mm.
Suitable for surface mounting installations in combination with the surface-mounted box 6131/29-xxx(-500).
Cannot be installed in British Standard or VDE flush-mounted box.
Recommendation: Installation housing from Kaiser HaloX-O (Art.no. 1290-40) with corresponding cover plates (1290-47 or 1290-85 for fair faced concrete) or IBTronic H120-68 from Spelsberg.
Dimensions: (L x W x D): 91 mm x 91 mm x 45 mm.
Visible height: 23 mm.
Mounting depth: 22 mm.
Temperature range (device): –5 °C – 45 °C.
Storage temperature range: –25 °C – 55 °C.
Transport temperature range: –25 °C – 70 °C.
Protection class (device): IP 20.
For software and description please check the current Online-Catalogue.
HVAC = Heating, Ventilation and Air Conditioning

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white matt	–	6131/31-24-500	2CKA006132A0348		0.15	1
aluminium silver	–	6131/31-183-500	2CKA006132A0349		0.15	1

ABB i-bus® KNX

Movement and Presence Detection



6131/40-24-500

Presence Detector, Sky, white, SM
Movement detector with 4 individual PIR sensors (single switch-off) and 2 independent channels. Detection range (for mounting height 6 m and 12 m): 360° (circular).
Walking persons Ø: 18 m, 24 m.
Sensitivity of the watchdog adjustable via ETS-parameter.
Operating modes: Automatic, Automatic switch-off/switch-on (depending on detector application).
For switching on/off light bands depending on the room brightness.
Regulation in response to the movement possible.
Using the device as presence and/or movement detector.
2 channels for detector application with integrated monitoring function
or up to 2 channels for constant light switch application (max. 2 outputs for brightness dependent switching of two light bands in the area).
Integrated brightness sensor.
Weighting of up to 2 external brightness values and the internal brightness sensor possible.
Brightness range: 1 - 1000 Lux.
Brightness adjustment via KNX communcation objects.
Two-stage switch-off with delay time and reduced brigthness.
The KNX programming button is accessable without demounting the detector.
The KNX programming LED can be activated for the walk-test function via KNX.
With integrated KNX bus coupler and power supply via KNX bus.
Scene control via KNX.
Easy Master-Slave operation of several presence detectors possible.
Firmware update via ETS and KNX Firmware Update App.
Integrated IR receiver for activation of the KNX programming mode via the IR remote control 6010-25(-500). Alternatively via a teachable IR remote control with RC5 code.
Mounting height: 4 to 12 m.
Suitable for false ceilings with a board thickness from 9 to 25 mm in combination with a spring clip.
Hole size: Ø 68 mm.
Suitable for surface mounting installations in combination with the surface-mounted box 6131/29-xxx(-500) or intermediate ring for VDE flush-mounted box 6131/38-xxx(-500).
Cannot be installed in British Standard or VDE flush-mounted box.
Recommendation: Installation housing from Kaiser HaloX-O (Art.no. 1290-40) with corresponding cover plates (1290-47 or 1290-85 for fair faced concrete) or IBTronic H120-68 from Spelsberg.
Dimensions: (L x W x D): 91 mm x 91 mm x 45 mm.
Visible height: 23 mm.
Mounting depth: 22 mm.
Temperature range (device): –5 °C – 45 °C.
Storage temperature range: –25 °C – 55 °C.
Transport temperature range: –25 °C – 70 °C.
Protection class (device): IP 20.
For software and description please check the current Online-Catalogue.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white matt	–	6131/40-24-500	2CKA006132A0350		0.15	1



6131/50-24-500

Presence Detector, Corridor, Basic, FM
Presence detector with 2 sensor groups and 2 PIR sensors each (groups single switch-off) and max. 2 independent channels. Detection range: rectangular.
For mounting height 2.5 m: frontal approach max. 18 m x 2.5 m (per side max. 9 m x 2.5 m). Lateral movement max. 24 m x 2.5 m (per side max. 12 m x 2.5 m).
For mounting height 3 m as well as 4 m: frontal approach max. 20 m x 3 m (per side max. 10 m x 3 m). Lateral movement max. 30 m x 3 m (per side max. 15 m x 3 m).
Sensitivity of the watchdog adjustable via ETS-parameter.
Operating modes: Automatic, Automatic switch-off/switch-on (depending on detector application).
For switching on/off light bands depending on the room brightness.
Regulation in response to the movement possible.
Using the device as presence and/or movement detector.
2 channels for detector application with integrated monitoring function
or up to 2 channels for constant light switch application (max. 2 outputs for brightness dependent switching of two light bands in the area).
Integrated brightness sensor.
Weighting of up to 2 external brightness values and the internal brightness sensor possible.
Brightness range: 1 - 1000 Lux.
Brightness adjustment via KNX communication objects.
Two-stage switch-off with delay time and reduced brightness.
The KNX programming button is accessible without demounting the detector.
The KNX programming LED can be activated for the walk-test function via KNX.
With integrated KNX bus coupler and power supply via KNX bus.
Scene control via KNX.
Easy Master-Slave operation of several presence detectors possible.
Firmware update via ETS and KNX Firmware Update App.
Mounting height: 2 m - 4 m.
Suitable for false ceilings with a board thickness from 9 to 25 mm in combination with a spring clip.
Hole size: Ø 68 mm.
Suitable for surface mounting installations in combination with the surface-mounted box 6131/29-xxx(-500) or intermediate ring for VDE flush-mounted box 6131/38-xxx(-500).
Cannot be installed in British Standard or VDE flush-mounted box.
Recommendation: Installation housing from Kaiser HaloX-O (Art.no. 1290-40) with corresponding cover plates (1290-47 or 1290-85 for fair faced concrete) or IBTronic H120-68 from Spelsberg.
Dimensions: (L x W x D): 91 mm x 91 mm x 49 mm.
Visible height: 27 mm.
Mounting depth: 22 mm.
Temperature range (device): –5 °C – 45 °C.
Storage temperature range: –25 °C – 55 °C.
Transport temperature range: –25 °C – 70 °C.
Protection class (device): IP 20.
For software and description please check the current Online-Catalogue.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white matt	–	6131/50-24-500	2CKA006132A0399		0.16	1
aluminium silver	–	6131/50-183-500	2CKA006132A0400		0.16	1

ABB i-bus® KNX

Movement and Presence Detection



6131/51-24-500

Presence Detector, Corridor, Premium, FM
Presence detector with 2 sensor groups and 2 PIR sensors each (groups single switch-off) and max. 4 independent channels. Detection range: rectangular.
For mounting height 2.5 m: frontal approach max. 18 m x 2.5 m (per side max. 9 m x 2.5 m). Lateral movement max. 24 m x 2.5 m (per side max. 12 m x 2.5 m).
For mounting height 3 m as well as 4 m: frontal approach max. 20 m x 3 m (per side max. 10 m x 3 m). Lateral movement max. 30 m x 3 m (per side max. 15 m x 3 m).
Sensitivity of the watchdog adjustable via ETS-parameter.
Operating modes: Automatic, Automatic switch-off/switch-on (depending on detector application).
For dimming/control the brightness to a defined value in the detection area.
4 channels for detector application with integrated monitoring function
or up to 4 channels for constant light switch application (max. 2 outputs for brightness dependent switching of two light bands in the area)
or up to 2 channels for constant light control (max. 2 outputs for dimming daylight control/ control of two rooflights in the room)
or up to 1 channel for HVAC functions for controlling heating and/or cooling systems and ventilation systems in the detection area. Integrated brightness sensor.
Weighting of up to 2 external brightness values and the internal brightness sensor possible.
Brightness range: 1 - 1000 Lux. Brightness adjustment via KNX communcation objects.
Two-stage switch-off with delay time and reduced brigthness.
Incl. 5 logic functions (logic gates, gates, delay and staircase lighting).
Integrated object room temperature controller with temperature sensor.
The KNX programming button is accessable without demounting the detector.
The KNX programming LED can be activated for the walk-test function via KNX.
With integrated KNX bus coupler and power supply via KNX bus.
Scene control via KNX. Easy Master-Slave operation of several presence detectors possible.
Firmware update via ETS and KNX Firmware Update App.
Integrated IR receiver for activation of the KNX programming mode via the IR remote control 6010-25(-500) and 10 freely programmable IR channels (blue and/or white function buttons). Alternatively via a teachable IR remote control with RC5 code.
Mounting height: 2 m - 4 m.
Suitable for false ceilings with a board thickness from 9 to 25 mm in combination with a spring clip. Hole size: Ø 68 mm.
Suitable for surface mounting installations in combination with the surface-mounted box 6131/29-xxx(-500).
Cannot be installed in British Standard or VDE flush-mounted box.
Recommendation: Installation housing from Kaiser HaloX-O (Art.no. 1290-40) with corresponding cover plates (1290-47 or 1290-85 for fair faced concrete) or IBTronic H120-68 from Spelsberg.
Dimensions: (L x W x D): 91 mm x 91 mm x 49 mm.
Visible height: 27 mm.
Mounting depth: 22 mm.
Temperature range (device): –5 °C – 45 °C.
Storage temperature range: –25 °C – 55 °C.
Transport temperature range: –25 °C – 70 °C.
Protection class (device): IP 20.
For software and description please check the current Online-Catalogue.
HVAC = Heating, Ventilation and Air Conditioning

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white matt	–	6131/51-24-500	2CKA006132A0413		0.16	1
aluminium silver	–	6131/51-183-500	2CKA006132A0414		0.16	1



6131/29-24-500

Housing Presence Detector, Mini, Basic, SM

For installing a Busch-Presence detector mini KNX 6131/20-xxx(-500) or a Busch-Presence detector mini premium KNX 6131/21-xxx(-500).
Protection class (Device): IP 20. Dimensions: (L x W x D): 80 mm x 80 mm x 35 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white matt	–	6131/29-24-500	2CKA006132A0351		0.08	1
aluminium silver	–	6131/29-183-500	2CKA006132A0352		0.08	1



6131/39-24-500

Housing Presence Detector, Mini, Premium, SM

For mounting a Busch-Presence detector KNX 6131/30-xxx(-500), a Busch-Presence detector premium KNX 6131/31-xxx(-500), a Busch-Presence detector Corridor KNX 6131/50-xxx(-500), a Busch-Presence detector Corridor premium KNX 6131/51-xxx(-500) or a Busch-Watchdog Sky KNX 6131/40-24(-500).
Protection class (Device): IP 20. Dimensions: (L x W x D): 91 mm x 91 mm x 33 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white matt	–	6131/39-24-500	2CKA006132A0353		0.10	1
aluminium silver	–	6131/39-183-500	2CKA006132A0354		0.10	1



6131/38-24

Intermediate ring for Busch-Presence detector Basic, Premium, Sky and Corridor

For mounting a Busch-Presence detector KNX 6131/30-xxx(-500), a Busch-Presence detector premium KNX 6131/31-xxx(-500), a Busch-Presence detector Corridor KNX 6131/50-xxx(-500), a Busch-Presence detector Corridor premium KNX 6131/51-xxx(-500) or a Busch-Watchdog Sky KNX 6131/40-24(-500).
Protection class (Device): IP 20. Dimensions: (L x W x D): 91 mm x 91 mm x 22 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white matt	–	6131/38-24-500	2CKA006132A0403		0.08	1
aluminium silver	–	6131/38-183-500	2CKA006132A0404		0.08	1

ABB i-bus® KNX

Movement and Presence Detection



6179/01-204-500

Watchdog Sensor, Basic, SM

Sensor angle: 220° Range: approx. 16 m. With 2 movement channels. With 1 twilight channel with 3 switching thresholds. No remote control possible via IR remote control KNX. With integrated KNX bus coupler. No additional power supply necessary.
Surveillance density: 92 sectors with 368 switching segments.
Twilight sensor: approx. 1 – 1000 lux. Switch-off delay: approx. 10 sec to 1092 min.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
alpine white	–	6179/01-204-500	2CKA006132A0313		0.56	1
silver metallic	–	6179/01-208-500	2CKA006132A0314		0.56	1



6179/02-204-500

Watchdog Sensor, Premium, SM

Sensor angle: 220° Range: approx. 16 m. With 4 movement channels. With 1 twilight /brightness channel with 3 switching thresholds. With 1 temperature channel with three switching thresholds. With 7-channel IR remote control. Remote control possible via IR remote control KNX 6179 (included in scope of delivery). With integrated KNX bus coupler.
No additional power supply necessary. Surveillance density: 92 sectors with 368 switching segments. Twilight sensor: approx. 1 –1000 lux; Brightness sensor: approx. 1 – 80 klux; Temperature sensor: approx. –25 to +55 °C; Switch-off delay: approx. 10 sec to 1092 min.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
alpine white	–	6179/02-204-500	2CKA006132A0317		0.56	1
silver metallic	–	6179/02-208-500	2CKA006132A0318		0.56	1



6179-500

Infrared Hand Transmitter for Watchdog Sensor

For Busch-Watchdog 220 MasterLINE KNX premium. The functions can be freely assigned. With coded transmission signal. Power supply: lithium button cell battery. Type CR202 (included in delivery). Battery life: typically 2 years. Rated voltage: 3 V, Protection class (Device): IP 40, Temperature range (Device): 0 °C – 45 °C, Dimensions: (L x W x D): 86 mm x 40 mm x 7 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
grey / anthracite	–	6179-500	2CKA006132A0320		0.58	1



6868-201-500

Ceiling/corner adapter

For Busch-Watchdog 220 MasterLINE, Busch-Watchdog 220 MasterLINE select, Busch-Watchdog 220 MasterLINE premium, Busch-Watchdog 280 MasterLINE, Busch-Watchdog 220 MasterLINE KNX, Busch-Watchdog 220 MasterLINE KNX premium. For detection on two sides of the house, in combination with Busch-Watchdog 280. For ceiling mounting of the Busch-Watchdog.
To increase the inclination of the Busch-Watchdog 220/280. It is mounted at the corner of the house, on the wall or under the ceiling. For flush or surface wiring.
Dimensions: (L x W x D): 102 mm x 125 mm x 55 mm. Mounting height: 2.5 m.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
brown	–	6868-201-500	2CKA006800A2565		0.16	1
white		6868-204-500	2CKA006800A2562		0.16	1
silver metallic		6868-208-500	2CKA006800A2563		0.16	1
anthracite		6868-35-500	2CKA006800A2564		0.16	1

Efficient climate control in one system

ClimaECO the new product range for HVAC automation

Heating, ventilation, and air-conditioning automation – ClimaECO brings HVAC applications together in one holistic solution portfolio based on the standardized KNX system.

HVAC control in one single system
ClimaECO is the holistic heating, ventilation, and air-conditioning (HVAC) automation solution for commercial buildings based on the proven ABB i-bus® KNX system. A solution that seamlessly integrates room automation, central HVAC functions, and management and automation into one system – a significant step towards increasing energy efficiency and reducing operational costs. ClimaECO – making your building more economical, sustainable, and comfortable.



—
When it comes to HVAC you often have to deal with several systems. ABB ClimaECO offers one solution for everything.

HVAC automation from the room level to the management level

HVAC –
multiple functions

Heating, ventilation, and air-conditioning technology is made up of various systems that are now integrated into one system.

KNX –
a standardized system

With the proven ABB i-bus® KNX system it is possible to automate all HVAC applications and combine them into a single solution.

HVAC –
levels

ClimaECO combines the three different levels of HVAC automation, ranging from management level to central HVAC systems (generation and distribution) to room automation (energy consumption).

ClimaECO –
a holistic solution

ClimaECO bundles all functions and solutions for HVAC automation into a single integrated system. This saves you time and effort with planning, integration, and maintenance, while significantly increasing energy efficiency in buildings.

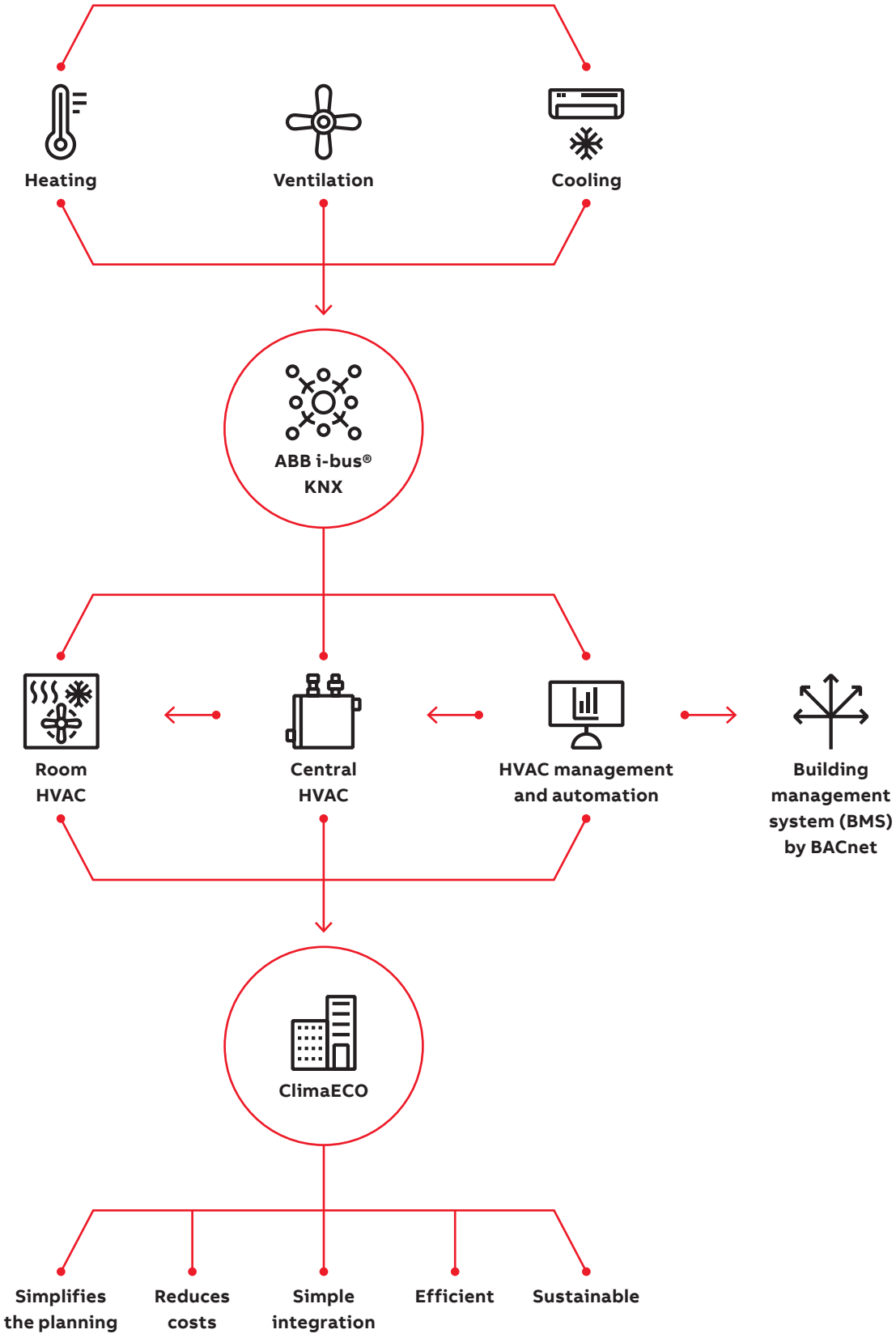


ABB i-bus® KNX

Heating, Ventilation and Air Conditioning – Influencing Variables on Room Climate

Influencing Variables on Room Temperature

Internal and external factors have an effect on the thermal conditions in a room or a building. As an external factor the solar radiation is important for the indoor temperature – particularly with regard to modern architecture with glass fronts. Besides this, the room temperature is strongly affected by the exchange of thermal energy through windows and walls as well as the loss of thermal energy through open doors and windows.

Depending on the intensity, all this interactions influence also the energy efficiency of a building and have therefore to be optimised.
Internal thermal inputs from lighting, devices or persons have also an influence on the room climate. By planning a heating, ventilation or air conditioning system all this internal and external factors have to be considered.

Influencing Variables on Air Quality

The indoor climate in living and working areas has a scientifically proven impact on health, job performance and well-being of people. A suitable indicator for determination of the room air quality is the CO_2 concentration. In addition the values for room temperature and air humidity must be controlled to meet the requirements for a comfortable room climate.

Studies have shown, that high CO_2 concentration in the air influences the well-being as well as the performance and learning ability of people. Besides the normal CO_2 concentration in the air, human respiration is an important factor increasing the CO_2 concentration in a room. Therefore it is important to measure the CO_2 concentration in rooms where many persons are present (schools, conference rooms, open-plan offices). Monitoring of thresholds enables fans to be switched via ABB i-bus® KNX allowing automatic control of the CO_2 concentration and sufficient supply of fresh air.

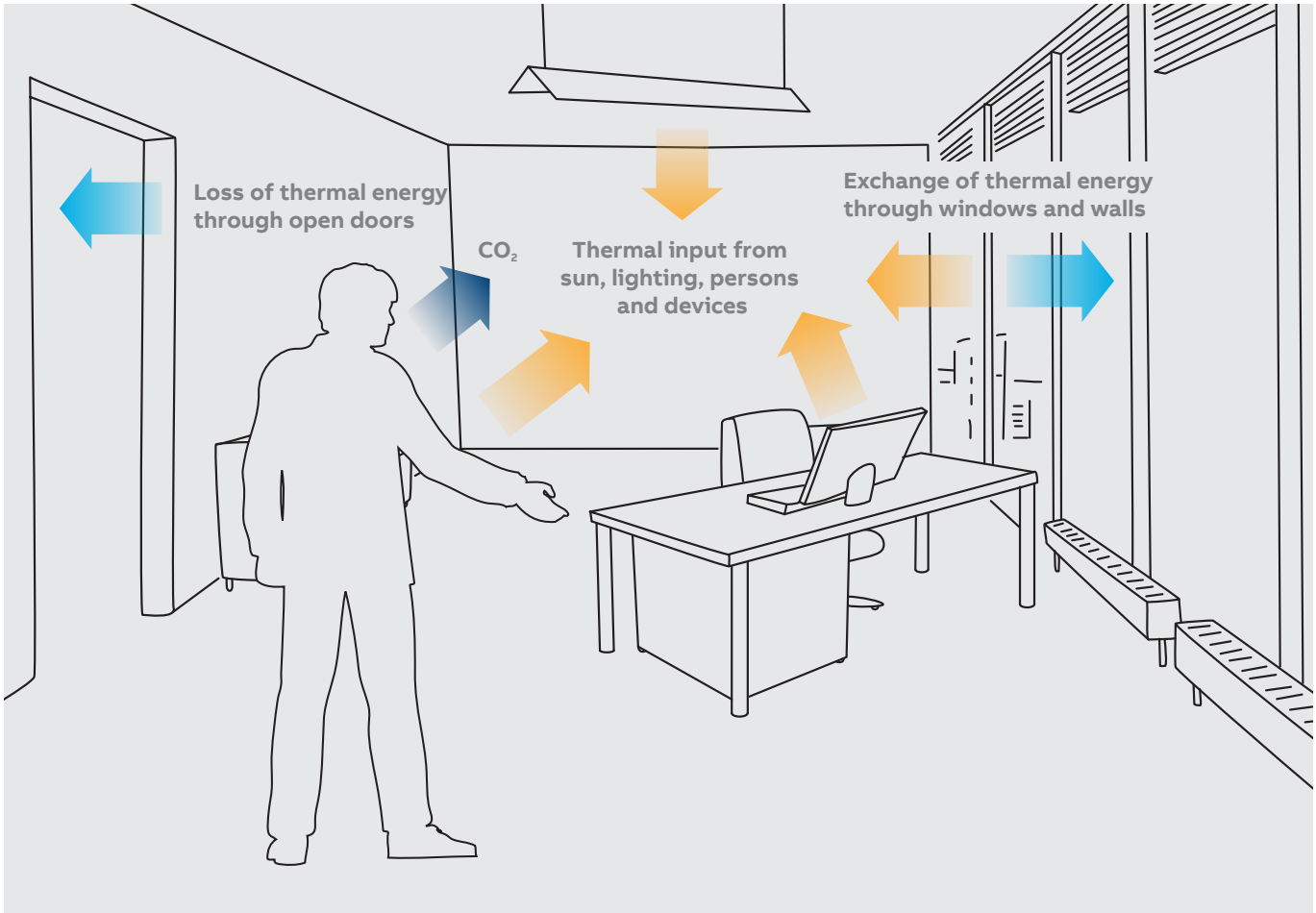


ABB i-bus® KNX

Heating, Ventilation and Air Conditioning – ABB Tenton®









Living and working with a feeling of well-being.
And here the air in the room is one of the most important factors. Because the body takes an ideal temperature for granted and therefore easily reacts to changes. Heated or air-conditioned rooms can be optimally adjusted – to a consistently pleasant ambience.

The KNX ABB Tenton® for stand-alone applications.
The ABB Tenton® with display is a room temperature controller for ventilator convectors or conventional systems for heating and cooling. This option offers complete air-conditioning for rooms. The temperature can be adjusted precisely for personal comfort. The fan speeds can be selected by push buttons. Even very large rooms can be heated or cooled to a comfortable temperature quickly – with additional air-conditioning units. The KNX ABB Tenton® can be operated individually. The bus coupler is integrated into the control element.

Function
- Temperature sensor
- RTC setting
- Illuminated display
- Fan Coil operation for heating and cooling

Features
- Very easy to operate with large, clear display
- Complete air conditioning
- Fan speeds can be manually selected
- Integrated bus coupler
- Surface-mounted, independent switching program
- Available in four modern colours

ABB i-bus® KNX

Heating, Ventilation and Air Conditioning – ClimaECO Portfolio Overview

Management & Automation



Application Controllers
AC/S

Central HVAC Automation



Heating / Cooling Circuit Controllers
HCC/S



Boiler / Chiller Interfaces
BCI/S



Building Automation Controller KNX
BAC/S

HVAC Room Automation

User Operation



ABB Tenton®
SBS/U



Room Control Units
SAR/A

Controllers



Fan Coil Controllers
FCC/S



Valve Drive Controllers
VC/S



Split Unit Gateway
SUG/U



Air quality sensor
LGS/A

ABB i-bus® KNX

Heating, Ventilation and Air Conditioning

	Electronic Switch Actuator ES/S x.1.2.1 (x = 4/8)	Electronic Relay ER/U 1.1 (with US/U x.2) (x = 2/4)	Valve Drive Actuator VAA/S x.230.2.1 (x = 6/12)	Valve Drive Controller VC/S 4.1.1	Valve Drive Controller VC/S 4.2.1
General					
Supply voltage	KNX	24...250 V AC/DC	KNX	KNX	KNX
Type of installation	DIN-Rail	Flush-mounted	DIN-Rail	DIN-Rail	DIN-Rail
Module width (18 mm)	4/8	–	4/8	8	8
Current consumption, bus	< 12 mA	< 12 mA	< 12 mA	< 12 mA	< 12 mA
Rated current (per channel)	1 A (resistive load)	0.5 A (resistive load)	160 mA (resistive load)	250 mA	250 mA
Inrush current (per channel)	8 A (1 s, Tu = 20 °C)	1.2 A (1 min.)	300 mA (2 min., Tu = 60 °C)	300 mA (2 min., Tu = 60 °C)	300 mA (2 min., Tu = 60 °C)
Maximum number of thermoelectric valve drives (per channel)	10 (230 V) 3 (24 V)	2 (230 V) 2 (24 V)	3 (230 V) 1 (24 V)	3 (230 V) 1 (24 V)	3 (230 V) 1 (24 V)
Outputs					
Number	4/8	1	6/12	4	4
Type	thermoelectric or motor valve drives	thermoelectric valve drives	thermoelectric valve drives	thermoelectric valve drives	thermoelectric valve drives
Output voltage	24... 230 V AC/DC	24... 230 V AC/DC	24...230 V AC	24...230 V AC	24...230 V AC
Manual operation					
Manual operation	■	–	■	–	■
Fault acknowledgement	■	–	■	–	■
Function:					
Operating mode Valve drive, thermoelectric/motor valve drives					
Forced operation	■	■ (via US/U x.2)	■	■	■
Status	■	–	■	■	■
Adjustable control value after controller fault	■	■ (via US/U x.2)	■	■	■
Valve purge	■	■ (via US/U x.2)	■	■	■
Characteristic curve adaption	■	–	■	–	–
Blocking	■	–	■	–	–
Operating mode Switch actuator					
Time: Staircase lighting, delay, flashing	■	–	–	–	–
8-bit scene	■	–	–	–	–
Logical functions	■	–	–	–	–
Safety settings	■	–	–	–	–
Threshold values	■	–	–	–	–
Integrated room temperature controller (RTC)	–	–	–	■	■
Use in Master/Slave system with room operation units	–	–	–	■	■
Control and diagnosis via ABB i-bus® Tool	–	–	–	■	■

■ = Function is supported

– = Function is not supported

ABB i-bus® KNX

Heating, Ventilation and Air Conditioning



VC/S 4.1.1

Valve Drive Controller, 4-fold, MDRC

For the control of heating and cooling applications in the room, such as radiator, floor heating or cooling ceiling. The device has 4 channels each for the independent control of a heating or cooling application. Each channel has an electronic valve output for the control of a thermoelectric valve drive, as well as 3 inputs to detect and monitor the room status (use for window contact, dew point sensor, level sensor or temperature sensor). Also it is possible to connect one analog room control unit (SAR/A or SAF/A) to the inputs of each channel. Each channel has its own integrated room temperature controller for the control of the room temperature, which can be used directly to control the outputs of the device. The VC/S 4.2.1 features an easy to use manual operation.
Both devices support the ABB i-bus® Tool for advanced diagnosis and improved commissioning.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	8	VC/S 4.1.1	2CDG110216R0011		0.27	1
Manual Operation	8	VC/S 4.2.1	2CDG110217R0011		0.275	1



VAA/S 6.230.2.1

Valve Drive Actuator, 230 V, MDRC

For controlling thermoelectric valve drives (e.g. TSA/K) in heating/cooling systems at 24...230 V AC. The outputs are protected against short circuits and overload and can be switched on or off via manual push buttons during commissioning.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
6-fold	4	VAA/S 6.230.2.1	2CDG110116R0011		0.17	1
12-fold	8	VAA/S 12.230.2.1	2CDG110117R0011		0.3	1



VAA/A 6.24.2

Floor heating Controller, 6-fold, SM

For the control of up to twelve thermoelectric 24 V DC or analog 0-10 V valve drives (two per channel). With integrated power supply for the valve drives. The device has an integrated relay output to switch the heating circuit pump in dependence of the control value of the valve outputs. The valve outputs can be controlled by the internal or an external room temperature controller. The device is suitable for the installation in the (floor) heating distribution system.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	VAA/A 6.24.2	2CDG120061R0011		0.5	1



ES/S 4.1.2.1

Electronic Switch Actuator, 4-fold, 1 A, MDRC

Controls thermoelectric valve drives (e.g. TSA/K) in heating and cooling systems. Each output (24...230 V AC/DC) is protected against short-circuit and overload. With manual operation and status display for each output.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
4-fold	4	ES/S 4.1.2.1	2CDG110058R0011		0.25	1
8-fold	8	ES/S 8.1.2.1	2CDG110059R0011		0.38	1



ER/U 1.1

Electronic Relay, 1-fold, FM

The device is used in combination with the universal interface US/U x.2 and a room thermostat to control the temperature in individual rooms. The thermal valve drives of the radiator valves are operated both noisefree and with a low rate of wear.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	ER/U 1.1	GHQ6310044R0111		0.08	1
2-fold	–	US/U 2.2	GHQ6310074R0111		0.06	1
4-fold	–	US/U 4.2	GHQ6310070R0111		0.06	1



6164/11 U-500

Heating Actuator, 1-fold, 230 V, FM

1 electronic output (noiseless). For connecting thermoelectric actuating drives. The device possesses three additional input. Rated voltage: 230 V~, +10% /–10%, 50 Hz – 60 Hz. Input polling voltage 5 V. Output Rated current: 25 mA, cos φ 1. Output voltage: 250 V~. The bus can be connected via enclosed terminal block.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6164/11 U-500	2CKA006151A0247		0.09	1



ST/K 1.1

Electromotor Valve Drive

The drive is a proportional valve drive for controlling heating valves and is mounted on thermostat valve bases. Valve Adapters VA10, VA78 for conventional valves are supplied.
The control is carried out via a continuous KNX room thermostat. The actual valve position is indicated by 5 LEDs. The valve drive has two binary inputs for a presence contact and/or window contact and for further signal indication. With integrated Bus Coupler.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	ST/K 1.1	2CDG120004R0011		0.32	1

ABB i-bus® KNX

Heating, Ventilation and Air Conditioning



TSA/K 230.2

Thermoelectric Valve Drives

For opening and closing valves in heating, ventilation and air-conditioning systems. Both variants (230 V and 24 V) feature a plug-in connection cable (1 m) and a splash-proof housing. The mounting on the valve is easily implemented using the Valve Adapter VA/Z xx.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
230 V	–	TSA/K 230.2	2CDG120049R0011		0.16	1
24 V	–	TSA/K 24.2	2CDG120050R0011		0.16	1
Valve Adapter for valves from Dumser, Chronatherm, Vescal, KaMo	–	VA/Z 10.1	2CDG120009R0011		0.06	1
Valve Adapter for valves from Honeywell, Reich, Cazzaniga, Landis & Gyr. MNG	–	VA/Z 50.1	2CDG120010R0011		0.05	1
Valve Adapter for valves from Danfoss RA	–	VA/Z 78.1	2CDG120011R0011		0.03	1
Valve Adapter for valves from Heimeier, Herb, Onda, Schlösser (ab 93), Oventrop	–	VA/Z 80.1	2CDG120012R0011		0.06	1



SUG/U 1.1

Split Unit Gateway, FM

The Split Unit Gateway forms the interface between the KNX system and many manufacturers' air conditioners, so-called split units. The device converts the KNX telegrams into infrared commands and transmits them to the split unit. The transmitter of the supplied cable is bonded directly onto the split unit's receiver. The split unit then no longer receives the commands from a remote control. Instead, it can be operated via any KNX sensors or via a visual display system. The device is put into operation with the ETS, and a free ETS app is available to select the split unit model. Auxiliary voltage is not required.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SUG/U 1.1	2CDG110207R0011		0.02	1

	Fan Coil Controller				
	FCC/S 1.1.1.1	**FCC/S 1.1.2.1**	**FCC/S 1.2.1.1**	**FCC/S 1.2.2.1**	**FCC/S 1.3.1.1**
General					
Supply voltage	KNX	KNX	KNX	KNX	KNX
Type of installation	DIN-Rail	DIN-Rail	DIN-Rail	DIN-Rail	DIN-Rail
Module width (18 mm)	6	6	6	6	6
Current consumption, bus	< 12 mA	< 12 mA	< 12 mA	< 12 mA	< 12 mA
Manual operation	–	■	–	■	–
Software functionality					
Integrarted room temperature controller (RTC)	■	■	■	■	■
Use in Master/Slave System with room operation units	■	■	■	■	■
Fan outputs					
Number of fans	1	1	1	1	1
Fan type:					
1/2/3 step	■	■	■	■	–
Rated current I_n	5 A	5 A	5 A	5 A	–
Rated voltage U_n (50/60 Hz)	250 V AC	250 V AC	250 V AC	250 V AC	–
Continues Fan (0 … 10 V)	–	–	–	–	■
Valve outputs					
Electronic 0,5 A	2	2	–	–	–
Analog 0...10 V	–	–	2	2	2
Control individual	■	■	■	■	■
Supported valve types:					
– Thermoelectric valve drive (PWM)	2	2	–	–	–
– Motor-driven valve drive (3-point)	1	1	–	–	–
– Analog valve drive or	–	–	2	2	2
– 6-way valve drive	–	–	1	1	1
Switching contact					
Number of contacts	1	1	1	1	1
Rated current I_n	16 A	16 A	16 A	16 A	16 A
Rated voltage U_n (50/60 Hz)	250 V AC	250 V AC	250 V AC	250 V AC	250 V AC
Inputs					
Number of inputs	4	4	4	4	4
Supported sensors:					
– Temperature sensor	■	■	■	■	■
– Dew Point sensor	■	■	■	■	■
– Level sensor	■	■	■	■	■
– Binary signal input	■	■	■	■	■
– Analog room control unit (SAR/A or SAF/A)	1	1	1	1	1
Fan Coil Unit type					
2 pipe					
Heating	■	■	■	■	■
Cooling	■	■	■	■	■
Heating/Cooling	■	■	■	■	■
4 pipe					
Heating/Cooling	■	■	■	■	■
Commissioning and diagnostic function					
Control and diagnosis via ABB i-bus® Tool	■	■	■	■	■

—

■ = Function is supported

– = Function is not supported

ABB i-bus® KNX

Heating, Ventilation and Air Conditioning

	Fan Coil Controller			
	FCC/S 1.3.2.1	**FCC/S 1.4.1.1**	**FCC/S 1.5.1.1**	**FCC/S 1.5.2.1**
General				
Supply voltage	KNX	KNX	KNX	KNX
Type of installation	DIN-Rail	DIN-Rail	DIN-Rail	DIN-Rail
Module width (18 mm)	6	6	6	6
Current consumption, bus	< 12 mA	< 12 mA	< 12 mA	< 12 mA
Manual operation	■	–	–	■
Software functionality				
Integrarted room temperature controller (RTC)	■	■	■	■
Use in Master/Slave System with room operation units	■	■	■	■
Fan outputs				
Number of fans	1	1	1	1
Fan type:				
1/2/3 step	–	■	–	–
Rated current I_n	–	5 A	–	–
Rated voltage U_n (50/60 Hz)	–	250 V AC	–	–
Continues Fan (0 … 10 V)	■	–	■	■
Valve outputs				
Electronic 0,5 A	–	1	2	2
Analog 0...10 V	2	–	–	–
Control individual	■	■	■	■
Supported valve types:				
– Thermoelectric valve drive (PWM)	–	1	2	2
– Motor-driven valve drive (3-point)	–	–	1	1
– Analog valve drive or	2	–	–	–
– 6-way valve drive	1	–	–	–
Switching contact				
Number of contacts	1	–	1	1
Rated current I_n	16 A	–	16 A	16 A
Rated voltage U_n (50/60 Hz)	250 V AC	–	250 V AC	250 V AC
Inputs				
Number of inputs	4	4	4	4
Supported sensors:				
– Temperature sensor	■	■	■	■
– Dew Point sensor	■	■	■	■
– Level sensor	■	■	■	■
– Binary signal input	■	■	■	■
– Analog room control unit (SAR/A or SAF/A)	1	1	1	1
Fan Coil Unit type				
2 pipe				
Heating	■	■	■	■
Cooling	■	■	■	■
Heating/Cooling	■	■	■	■
4 pipe				
Heating/Cooling	■	–	■	■
Commissioning and diagnostic function				
Control and diagnosis via ABB i-bus® Tool	■	■	■	■

■ = Function is supported

– = Function is not supported

	Blower Actuators	
	FCL/S 1.6.1.1	**FCL/S 2.6.1.1**
General		
Supply voltage	KNX	KNX
Type of installation	DIN-Rail	DIN-Rail
Module width (18 mm)	4	6
Current consumption, bus	< 12 mA	< 12 mA
Manual operation	–	–
Fan outputs		
Number of fans	1	2*
Supported fan types:		
– 1/2/3 step or	■	■
– 3 individual contacts	–	–
Rated current I_n	6 A	6 A
Rated voltage U_n	250/440 V AC (50/60 Hz)	250/440 V AC (50/60 Hz)
Valve outputs		
Electronic 0.5 A	–	–
Analog 0...10 V	–	–
Control individual	–	–
Supported valve types:		
– Thermoelectric valve drive (PWM)	–	–
– Motor-driven valve drive (3-point)	–	–
– Analog valve drive	–	–
Valve type can be mixed	–	–
Switching contact		
Number of contacts	1	2 (5)*
Rated current I_n	6 A	6 A
Rated voltage U_n	250/440 V AC (50/60 Hz)	250/440 V AC (50/60 Hz)
Inputs		
Number of inputs	–	–
Supported sensors:		
– Switch sensor	–	–
– Value/forced operation	–	–
– Temperature sensor	–	–
Fan Coil Unit type		
2 pipe		
Heating	–	–
Cooling	–	–
Heating/Cooling	–	–
4 pipe		
Heating/Cooling	–	–
Various		
Parallel operation	–	–
Commissioning and diagnostic function		
Control and diagnosis via ABB i-bus® Tool	–	–

—

■ = Function is supported

– = Function is not supported

* = Second fan output can be used as 3 switch outputs

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FCC/S 1.1.1.1

Fan Coil Controller, 2 x PWM, 3-stage, MDRC

For the control of fan coil units. Via two electronic outputs, two thermoelectric or one motor-driven valve drive can be controlled for heating and cooling. For the fan control the devices features three relay outputs. A relay output switches an additional load of up to 16 A, such as auxiliary heating. Over 4 inputs the room status can be detected and monitored (Use for window contact, dew point sensor, level sensor or temperature sensor). Also it is possible to connect one analog room control unit (SAR/A or SAF/A) to the inputs of the device.
The device has an integrated room temperature controller for the control of the room temperature, which can be used directly to control the outputs of the device. The FCC/S 1.1.2.1 features an easy to use manual operation.
Both devices support the ABB i-bus® Tool for advanced diagnosis and improved commissioning.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	6	FCC/S 1.1.1.1	2CDG110210R0011		0.28	1
Manual Operation	6	FCC/S 1.1.2.1	2CDG110211R0011		0.285	1



FCC/S 1.2.2.1

Fan Coil Controller, 2 x 0-10 V, 3-stage, MDRC

For the control of fan coil units. Via two analog outputs, two analog valves or one 6-way valve drive can be controlled for heating and cooling. For the fan control the devices features three relay outputs. A relay output switches an additional load of up to 16 A, such as auxiliary heating. Over 4 inputs the room status can be detected and monitored (Use for window contact, dew point sensor, level sensor or temperature sensor). Also it is possible to connect one analog room control unit (SAR/A or SAF/A) to the inputs of the device. The device has an integrated room temperature controller for the control of the room temperature, which can be used directly to control the outputs of the device. The FCC/S 1.2.2.1 features an easy to use manual operation.
Both devices support the ABB i-bus® Tool for advanced diagnosis and improved commissioning.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	6	FCC/S 1.2.1.1	2CDG110212R0011		0.23	1
Manual Operation	6	FCC/S 1.2.2.1	2CDG110213R0011		0.235	1



FCC/S 1.3.1.1

Fan Coil Controller, 3 x 0-10 V, MDRC

For the control of fan coil units. Via two analog outputs, two analog valves or one 6-way valve drive can be controlled for heating and cooling. For the fan control the devices features an analog output for the control of a continues fan. A relay output switches an additional load of up to 16 A, such as auxiliary heating. Over 4 inputs the room status can be detected and monitored (Use for window contact, dew point sensor, level sensor or temperature sensor). Also it is possible to connect one analog room control unit (SAR/A or SAF/A) to the inputs of the device. The device has an integrated room temperature controller for the control of the room temperature, which can be used directly to control the outputs of the device.
The FCC/S 1.3.2.1 features an easy to use manual operation.
Both devices support the ABB i-bus® Tool for advanced diagnosis and improved commissioning.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	6	FCC/S 1.3.1.1	2CDG110214R0011		0.21	1
Manual Operation	6	FCC/S 1.3.2.1	2CDG110215R0011		0.215	1



FCC/S 1.4.1.1

Fan Coil Controller, PWM, 3-stage, MDRC

For the control of fan coil units. Via one electronic output, a thermoelectric valve drive can be controlled for heating and cooling. For the fan control the devices features three relay outputs. Over 4 inputs the room status can be detected and monitored (Use for window contact, dew point sensor, level sensor or temperature sensor). Also it is possible to connect one analog room control unit (SAR/A or SAF/A) to the inputs of the device. The device has an integrated room temperature controller for the control of the room temperature, which can be used directly to control the outputs of the device.
The device supports the ABB i-bus® Tool for advanced diagnosis and improved commissioning.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	6	FCC/S 1.4.1.1	2CDG110209R0011		0.215	1

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FCC/S 1.5.2.1

Fan Coil Controller, 2 x PWM, 0-10 V, MDRC

For the control of fan coil units. Via two electronic outputs, two thermoelectric or one motor-driven valve drive can be controlled for heating and cooling. For the fan control the devices features an analog output for the control of a continues fan. A relay output switches an additional load of up to 16 A, such as auxiliary heating. Over 4 inputs the room status can be detected and monitored (Use for window contact, dew point sensor, level sensor or temperature sensor). Also it is possible to connect one analog room control unit (SAR/A or SAF/A) to the inputs of the device. The device has an integrated room temperature controller for the control of the room temperature, which can be used directly to control the outputs of the device. The FCC/S 1.5.2.1 features an easy to use manual operation.
Both devices support the ABB i-bus® Tool for advanced diagnosis and improved commissioning.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	6	FCC/S 1.5.1.1	2CDG110234R0011		0.21	1
Manual Operation	6	FCC/S 1.5.2.1	2CDG110235R0011		0.215	1



CAR/U 4.1.1.1-71

Room Temperature Controller Fan Coil, 2/4 pipe, On/Off, FM

ABB Caldion® Room Temperature Controller for fan coil units with 2 pipe, 2 pipe with electric heater or 4 pipe system, Flush Mounted, BS standard. Available for standalone function or as KNX device with integrated bus coupling unit. Build in temperature sensor, 2 x binary input for window, dewpoint, condensate alarm. Integrated actuator output control for on/off valve and 3 x fan speed control. Dedicated capacitive touch RTC control button for intuitive control, mode operation and frameless design with large display.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Black	–	CAR/U 4.1.1.1-71	2TAZ740010R2001		0.272	1
White	–	CAR/U 4.1.1.1-84	2TAZ740010R0001		0.272	1



CAR/U 4.2.1.1-71

Room Temperature Controller Fan Coil, 2/4 pipe, 0-10V, FM

ABB Caldion® Room Temperature Controller for fan coil units with 2 pipe, 2 pipe with electric heater or 4 pipe system, Flush Mounted, BS standard. Available for standalone function or as KNX device with integrated bus coupling unit. Build in temperature sensor, 2 x binary input for window, dewpoint, condensate alarm. Integrated actuator output control for 0-10V valve and 3 x fan speed control. Dedicated capacitive touch RTC control button for intuitive control, mode operation and frameless design with large display.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Black	–	CAR/U 4.2.1.1-71	2TAZ741010R2001		0.272	1
White	–	CAR/U 4.2.1.1-84	2TAZ741010R0001		0.272	1



FCL/S 2.6.1.1

Blower Actuator, 6 A, MDRC

Controls one blower or fan with up to three fan speeds via step or changeover control. Furthermore a additional equipment like a damper or valve can be switched by one floating output. The fan speed can be directly choosen, increased and decreased as well as controlled by the control value of a external closed-loop controller.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
1-fold	4	FCL/S 1.6.1.1	2CDG110163R0011		0.18	1
2-fold	6	FCL/S 2.6.1.1	2CDG110164R0011		0.26	1



SAF/A 1.0.1-24

Room Temperature and Fan Coil Control Element, SM

The control element is used in conjunction with the FCC/S Fan Coil Controller or the VC/S Valve Controller for temperature adjustment, measurement and fan speed adjustment.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white	–	SAF/A 1.0.1-24	2CKA006134A0348			1



SAR/A 1.0.1-24

Room Temperature Control Element, SM

The control element is used in conjunction with the FCC/S Fan Coil Controller or the VC/S Valve Controller for temperature adjustment and measurement.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white	–	SAR/A 1.0.1-24	2CKA006134A0346			1



6138/11-84-500

Room Thermostat Fan Coil with Display, SM

Sends control values for the room to the Fan Coil Actuators or devices with the respective outputs (e.g. Room Master). The intuitive control operation allows each user to individually set the room temperature and the fan speed. The large LC display can display the actual and target temperatures, the current operating mode as well as the fan speeds. With integrated Bus Coupler.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
aluminium silver	–	6138/11-83-500	2CKA006138A0005		0.092	1
davos/studio white	–	6138/11-84-500	2CKA006138A0003		0.092	1

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LGS/A 1.2

Air Quality Sensor with Room Temperature Controller, SM

For the control and measuring of the room air quality and temperature. Accurately measures the $C0_2$ concentration (390…10.000 ppm), humidity (0...100 %) and temperature (0…50 °C) in a room and sends the values on the bus. By using the integrated thresholds the measured values can be monitored. With the integrated controller it is possible to control the room temperature and HVAC actuators. With integrated Bus Coupler.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	LGS/A 1.2	2CDG120059R0011		0.06	1



AC/S 1.1.1

Application Controller, MDRC

The AC/S Application Controller has predefined Automation Modules for a holistic HVAC Automation Solution from Central HVAC to Room Automation. For example Schedule, Set Point Calculation, Heat Curve Calculation, Data Logging and Device Monitoring. Furthermore own Automation Modules can be created by a graphical Logic Editor. By a web based User Interface the whole system can be monitored and managed.
The AC/S 1.2.1 has additional a built in bidirectional KNX-BACnet/IP Gateway (Server) for data exchange with superordinate Building Management Systems.
The Engineering is done completely by the ETS. An additional external Software is not required. The device has a KNX TP port.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Basic	4	AC/S 1.1.1	2CDG110205R0011		0.19	1
BACnet	4	AC/S 1.2.1	2CDG110206R0011		0.19	1

	Heating/Cooling Circuit Controller HCC/S 2.1.x.1	Heating/Cooling Circuit Controller HCC/S 2.2.x.1
General		
Supply voltage	KNX	KNX
Type of installation	DIN-Rail	DIN-Rail
Module width (17.5 mm)	8	8
Number of channels	2	2
Outputs		
3- way mixing valve control type	0 … 10 V DC	3 – Point
Valve outputs per channel	1	1
Pump control output per channel	1 (5 A)	1 (5 A)
Inputs		
Input for flow temperature measurement per channel	1	1
Input for return flow temperature measurement per channel	1	1
Inputs for pump status monitoring (pump status, pump failure, pump repair mode) per channel	3	3
Manual operation		
Manual operation	HCC/S 2.1.2.1	HCC/S 2.2.2.1
Software functionality		
Integrated temperature controller for heating or cooling distribution circuits	■	■
Forced operation	■	■
Cyclical monitoring of input values	■	■
Flow temperature limitation	■	■
Safety shutdown temperature	■	■
Manual valve overwrite	■	■
Valve purge	■	■
Manual pump overwrite	■	■
Pump control in dependence of control value	■	■
Channel bundling for double pump systems	■	■

—

■ = Function is supported

– = Function is not supported

ABB i-bus® KNX

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HCC/S 2.1.2.1

Heating/Cooling Circuit Controller, 2-fold, 0-10 V, MDRC

For the control of heating or cooling circuits. The device has 2 channels, each with an analog output to control the mixing valve (0…10 V) of a heating or cooling circuit as well as a relay output (5 A) to switch the pump of the circuit. Via 3 binary inputs it is possible to monitor the status of the pump (via potential free contacts) and integrate these feedback into the control of the pump. The flow and return flow temperature are measured and used for the calculation of the control value for the valve output in the integrated controller. The set point temperature is received via the KNX bus. By bundling both channels of the device it is also possible to use it for double pump systems.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	6	HCC/S 2.1.1.1	2CDG110218R0011		0.28	1
Manual Operation	6	HCC/S 2.1.2.1	2CDG110219R0011		0.285	1



HCC/S 2.2.1.1

Heating/Cooling Circuit Controller, 2-fold, 3-point, MDRC

For the control of heating or cooling circuits. The device has 2 channels, each with two electronic outputs to control a motor-driven mixing valve (3-Point) of a heating or cooling circuit as well as a relay output (5 A) to switch the pump of the circuit. Via 3 binary inputs it is possible to monitor the status of the pump (via potential free contacts) and integrate these feedback into the control of the pump. The flow and return flow temperature are measured and used for the calculation of the control value for the valve output in the integrated controller. The set point temperature is received via the KNX bus. By bundling both channels of the device it is also possible to use it for double pump systems.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	6	HCC/S 2.2.1.1	2CDG110220R0011		0.285	1
Manual Operation	6	HCC/S 2.2.2.1	2CDG110221R0011		0.29	1



BCI/S 1.1.1

Boiler/Chiller Interface, 1-fold, MDRC

As interface between the KNX system and a heat generator or chiller. Via an analog output (0…10 V) the set point or set point adjustment temperature can be transmitted to the heat generator/chiller. The set point itself is received via KNX. Via two binary inputs the device can monitor the status of the heat generator/chiller (via potential free contacts) and send it on the KNX bus. A relay output (5 A) is included to switch or enable/disable the heat generator/chiller. With an additional relay output (5 A) the pump of the heat generator/chiller can be switched on and off. Via 3 binary inputs it is possible to monitor the status of the pump (via potential free contacts) and integrate these feedback into the control of the pump.
The device supports the ABB i-bus® Tool for advanced diagnosis and improved commissioning.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	6	BCI/S 1.1.1	2CDG110222R0011		0.21	1



BAC/S 1.5.1

Building Automation Controller, KNX, MDRC **to be discontinued**

Powerful freely programmable KNX Building Automation Controller with flexible expandable In- and Output Modules.
Automation programs based on the globally standardized IEC 61131 programming languages can be executed. Both the graphical and textual programming languages are supported.
The programming software ABB Automation Builder based on the established Codesys software enables the easy creation and reuse of automation programs as well as the integration of software libraries. The ABB Automation Builder is integrated with the ETS through an ETS app.
Up to 1000 KNX group objects can be used in the automation program. The KNX relevant settings such as physical address, linking of the controller group objects with group addresses and the KNX sending conditions are set in the ETS and can also be changed at any time without ABB Automation Builder.
The building automation controller has two Ethernet network interfaces. The use is flexible adjustable. In addition to KNXnet/IP communication, these can also be used for other protocols and functions. Among other things, for Modbus TCP and a web server with a freely customizable web interface for display and operation of the system.
The controller has a built-in display, an RS-232/485 interface for i. a. Modbus. The internal clock and data variables can be buffered by a battery. The internal memory of 8 MB can be extended by the memory card slot.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	BAC/S 1.5.1	2CDG120062R0011		0.3	1

ABB i-bus® KNX

Heating, Ventilation and Air Conditioning



PM5630-2ETH



TB5600-2ETH

AC500 Programmable Logic Controller PM5630

Powerful freely programmable KNX Building Automation Controller with flexible expandable In- and Output Modules. Automation programs based on the globally standardized IEC 61131 programming languages can be executed. Both the graphical and textual programming languages are supported. The programming software ABB Automation Builder based on the established Codesys software enables the easy creation and reuse of automation programs as well as the integration of software libraries. The ABB Automation Builder is integrated with the ETS through an ETS app.

Up to 1000 KNX group objects can be used in the automation program. The KNX relevant settings such as physical address, linking of the controller group objects with group addresses and the KNX sending conditions are set in the ETS and can also be changed at any time without ABB Automation Builder.

The building automation controller has two Ethernet network interfaces. The use is flexible adjustable. In addition to KNXnet/IP communication, these can also be used for other protocols and functions. Among other things, for Modbus TCP and a web server with a freely customizable web interface for display and operation of the system.

The controller has a built-in display, an RS-232/485 interface for i. a. Modbus. The internal clock and data variables can be buffered by a battery. The internal memory of 8 MB can be extended by the memory card slot.

For a complete product the CPU module PM5630-2ETH as well as the Terminal Base TB5600-2ETH are required. To be able to connect the PLC with KNX the KNX Runtime License is required additionally.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
AC500 Programmable Logic Controller PM5630	–	PM5630-2ETH	1SAP131000R0278		0.16	1
AC500 Terminal Base TB5600-2ETH		TB5600-2ETH	1SAP110300R0278		0.20	1
AC500 V3 KNX IP Runtime License		PS5604-KNX	1SAP195800R0101		0.01	1



BCE/Z 1.1

BAC Engineering Software

to be discontinued

License for the engineering software of the BAC/S Building Automation Controller KNX: ABB Automation Builder 2.x license in the Building Automation variant.

This license is valid for a single computer and allows the programming of any number of BAC/S Building Automation Controllers.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	BCE/Z 1.1	2CDG120069R0011		0.01	1



DM200-TOOL

License Automation Builder

License for the engineering software Automation Builder for AC500 PLCs:
This license is valid for a single computer and allows the programming of any number of AC500 PLCs.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	DM200-TOOL	1SAS010000R0102		0.01	1



BCM/S 16.2.0.1

BAC Module, 16 Digital Inputs, 100-240 V **to be discontinued**

Extension module for the BAC/S Building Automation Controller KNX with 16 digital inputs for 100 – 240 V AC. Connection of the cables via pluggable spring terminals.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	BCM/S 16.2.0.1	2CDG120063R0011		0.23	1



DI572

Digital Input Module, 16 DI 240 V AC

Extension module for the AC500 PLC with 16 digital inputs for 100 - 240 V AC. Connection of the cables via pluggable spring terminals.
Terminals (9 + 11 springs) must be ordered additionally.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Digital Input Module, 16 DI 240 V AC	–	DI572	1SAP230500R0000		0.14	1
TA565-11/L444711:S500, Terminal block, 11 springs		TA565-11	1TNE968901R3106		0.02	6
TA565-9/L444709:S500, Terminal block, 9 springs		TA565-9	1TNE968901R3105		0.02	6



BCM/S 16.1.1

BAC Module, 16 Digital Inputs/Digital Outputs, 24 V, 0.5 A **to be discontinued**

Extension module for the BAC/S Building Automation Controller KNX with 16 switchable digital inputs or outputs for 24V DC. The electronic transistor outputs switch 0.5 A. Connection of the cables via pluggable spring terminals.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	BCM/S 16.1.1	2CDG120064R0011		0.19	1

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Heating, Ventilation and Air Conditioning



DC562

Digital Input/Output Module 16DC: 24 V DC/0.5 A

Extension module for the AC500 PLC with 16 switchable digital inputs or outputs for 24 V DC. The electronic transistor outputs switch 0.5 A. Connection of the cables via pluggable spring terminals.
Terminals (9 + 11 springs) must be ordered additionally.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Digital Input/Output Module 16DC: 24 V DC/0.5 A	–	DC562	1SAP231900R0000		0.22	1
TA565-11/L444711:S500, Terminal block, 11 springs		TA565-11	1TNE968901R3106		0.02	6
TA565-9/L444709:S500, Terminal block, 9 springs		TA565-9	1TNE968901R3105		0.02	6



BCM/S 16.1.3.1

BAC Module, 8 Digital Inputs/Digital Outputs, 24 V, Relay

to be discontinued

Extension module for the BAC/S Building Automation Controller KNX with 8 digital inputs and 8 digital outputs. The digital inputs process 24 V DC signals. The relay outputs switch a maximum of 2 A at 24 V DC and a maximum of 1.5 A at 120/240 V AC. Connection of the cables via pluggable spring terminals.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	BCM/S 16.1.3.1	2CDG120065R0011		0.21	1



DX571

Digital Input/Output Module, 8 Digital Inputs/8 Digital Outputs - Relay

Extension module for the AC500 PLC with 8 digital inputs and 8 digital outputs. The digital inputs process 24 V DC signals. The relay outputs switch a maximum of 2 A at 24 V DC and a maximum of 1.5 A at 120/240 V AC. Connection of the cables via pluggable spring terminals.
Terminals (9 + 11 springs) must be ordered additionally.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Digital Input/Output Module, 8 Digital Inputs/8 Digital Outputs - Relay	–	DX571	1TNE968902R2302		0.24	1
TA565-11/L444711:S500, Terminal block, 11 springs		TA565-11	1TNE968901R3106		0.02	6
TA565-9/L444709:S500, Terminal block, 9 springs		TA565-9	1TNE968901R3105		0.02	6



BCM/S 8.0.2.1

BAC Module, 8 Digital Outputs, 230 V, 0.3 A **to be discontinued**

Extension module for the BAC/S Building Automation Controller KNX with 8 digital outputs. The digital triac outputs switch a maximum of 0.3 A at 120/240 V AC. Connection of the cables via pluggable spring terminals.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	BCM/S 8.0.2.1	2CDG120066R0011		0.18	1



DO572

Digital Output Module, 8 Digital Outputs, Triac, 0.3 A

Extension module for the BAC/S Building Automation Controller KNX with 8 digital outputs. The digital triac outputs switch a maximum of 0.3 A at 120/240 V AC. Connection of the cables via pluggable spring terminals.
Terminals (9 + 11 springs) must be ordered additionally.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Digital Output Module, 8 Digital Outputs, Triac, 0.3 A	–	DO572	1TNE968902R2203		0.16	1
TA565-11/L444711:S500, Terminal block, 11 springs		TA565-11	1TNE968901R3106		0.02	6
TA565-9/L444709:S500, Terminal block, 9 springs		TA565-9	1TNE968901R3105		0.02	6



BCM/S 6.5.5.1

BAC Module, 4 Analogue Inputs and 2 Analogue Outputs **to be discontinued**

Extension module for the BAC/S Building Automation Controller KNX with 4 analog inputs and 2 analog outputs. The inputs and outputs support voltage signals from 0 V ... + 10 V, 0 V ... + 5 V, -2.5 V ... + 2.5 V and - 5 V ... + 5 V as well as current signals of 0 mA ... 20 mA and 4 mA ... 20 mA. Connection of the cables via pluggable spring terminals.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	BCM/S 6.5.5.1	2CDG120067R0011		0.18	1

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AX561

Analog Input/Output Module, 4 Analog Inputs/2 Analog Outputs U/I

Extension module for the BAC/S Building Automation Controller KNX with 4 analog inputs and 2 analog outputs. The inputs and outputs support voltage signals from 0 V ... + 10 V, 0 V ... + 5 V, -2.5 V ... + 2.5 V and -5 V ... + 5 V as well as current signals of 0 mA ... 20 mA and 4 mA ... 20 mA. Connection of the cables via pluggable spring terminals.
Terminals (9 + 11 springs) must be ordered additionally.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Analog Input/Output Module, 4 Analog Inputs/2 Analog Outputs U/I	–	AX561	1TNE968902R1301		0.23	1
TA565-11/L444711:S500, Terminal block, 11 springs		TA565-11	1TNE968901R3106		0.02	6
TA565-9/L444709:S500, Terminal block, 9 springs		TA565-9	1TNE968901R3105		0.02	6



BCM/S 2.6.0.1

BAC Module with Temperature Sensor, 2 Analogue Inputs **to be discontinued**

Extension module for the BAC/S Building Automation Controller KNX with 2 analog inputs for temperature sensors. Temperature sensors of type Pt100, Pt1000, Ni100, Ni1000 and 150 Ohm, 300 Ohm are supported. Connection of the cables via pluggable spring terminals.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	BCM/S 2.6.0.1	2CDG120068R0011		0.19	1



AI562

Analog Input Module, 2 Analog Inputs

Extension module for the BAC/S Building Automation Controller KNX with 2 analog inputs for temperature sensors. Temperature sensors of type Pt100, Pt1000, Ni100, Ni1000 and 150 Ohm, 300 Ohm are supported. Connection of the cables via pluggable spring terminals.
Terminals (11 springs) must be ordered additionally.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Analog Input Module, 2 Analog Inputs	–	AI562	1TNE968902R1102		0.22	1
TA565-11/L444711:S500, Terminal block, 11 springs		TA565-11	1TNE968901R3106		0.02	6

ABB i-bus® KNX

Automation, Logic and Time Control

	Logic Module LM/S 1.1	Application Unit, Logic ABL/S 2.1	Application Unit,Time ABZ/S 2.1	Logic Controller ABA/S 1.2.1
General				
Supply voltage	KNX	KNX	KNX	24 V DC / PoE
Ethernet connection	–	–	–	■
Type of installation	DIN-Rail	DIN-Rail	DIN-Rail	DIN-Rail
Module width (18 mm)	2	2	2	4
Software function				
Logic gates	■	■	–	■
Gate/filter	■	■	–	■
Multiplexer	–	–	–	■
Flip Flop	–	–	–	■
PID Controller	–	–	–	■
Composite function blocks	–	–	–	■
Time delay	■	■	–	■
Staircase lighting/Pulse duration	■	■	–	■
Calculation	□	–	–	■
Min./Max.	■	■	–	■
Comparator/Threshold	■	■	–	■
Format converter	■	–	–	■
Counter	■	–	–	■
Calendar switch program	–	–	■	■
Day routines	–	–	■	■
Week routines	–	–	■	■
Year routines	–	–	■	■
Special days	–	–	■	–
Daylight saving times	–	–	■	–
Telegram multiplier	■	–	■	■
Simulation (offline)		–	–	■
Webserver	–	–	–	■
Programming via KNX	■	■	■	■
Programming via Ethernet	–	–	–	■
Max. number of function elements	3	140	30	3000
Monitoring (online)	–	–	–	■

■ = Function is supported

– = Function is not supported

□ = Limited functions

ABB i-bus® KNX

Automation, Logic and Time Control



LM/S 1.1

Logic Module, MDRC

Used to solve a varied range of project-specific control tasks and can implement 3 functions simultaneously. The following functions are available for selection: logic gate, filter, time delay, multiplier, min/max value detector, temperature comparator, toggle values, threshold detection, format converter, scenes, increment/decrement values, staircase lighting.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	LM/S 1.1	GHQ6310080R0111		0.1	1



ABL/S 2.1

Application Unit Logic, MDRC

Allows the compilation of complex logical functions by simply combining different logic elements and gates using a graphical user interface as an ETS plug-in and does not require additional software. 50 logical elements, 50 gates, 30 timer modules and 10 comparators are available.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	ABL/S 2.1	2CDG110073R0011		0.12	1



ABZ/S 2.1

Application Unit Time, MDRC

It provides a yearly time clock program with 15 daily routines (800 switching events), a weekly schedule and allowance for 100 special days. Additionally, the unit can control up to 300 participants in 30 macro groups, that can be triggered using a single command. In this way, each time controlled switching event can cause a series of actions. The switching times can be modified with the free PZM software without using ETS. PZM Software and additional information on www.abb.com/knx.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	ABZ/S 2.1	2CDG110072R0011		0.12	1



ABA/S 1.2.1

Logic Controller, MDRC

The device provides extensive logic functions. The logic is defined via a graphic editor integrated in the ETS. Up to 3000 logic gates are possible.
The generated logic can be tested by a simulation function. User-defined function blocks can be created and saved for taking them over into other projects.
The device requires an auxiliary voltage, either 24 V DC or Power over Ethernet (PoE). If timer functions are used the date and time has to be provided via KNX/TP.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	ABA/S 1.2.1	2CDG110192R0011		0.192	1



FW/S 8.2.1

Radio Time Switch, 8 Channels, MDRC

The Radio Time Switch sends current time and date on the bus. The time can be optionally received via a DCF or GPS antenna. Furthermore the device can be used to easily adjust the time programs.
The device provides 8 channels. Every channel supplies an independent daily, time and/or yearly program. Additionally, special programs (e.g. for vacation or public holiday days) are possible.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	3	FW/S 8.2.1	2CDG120039R0011		0.33	1



FAD/A 1.1

DCF Antenna for Radio Time Switch, SM

For the connection to the Radio Tme Switch FW/S 8.2.1. The time signal from the DCF 77 transmitter can be received within a radius of approx. 1000 km around Frankfurt.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	FAD/A 1.1	2CDG120040R0011		0.17	1



FAG/A 1.2

GPS Antenna for Radio Time Switch, SM

For the connection to the Radio Time Switch FW/S 8.2.1. The device receives time and date via GPS signal which is available worldwide.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	FAG/A 1.2	2CDG120070R0011		0.09	1



PS/E 2.2

Programming Set OBELISK top2 for Radio Time Switch

The programming set contains a memory card PK/E 2.1 for transferring switching programms to the Radio Time Switch and a USB programming adapter for the memory card. The newest version of the software Obelisk top2 for the creation of switching programs for the Radio Time Switch FW/S 8.2.1 can be downloaded on our website.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	PS/E 2.2	2CDG120071R0011		0.20	1

ABB i-bus® KNX

Automation, Logic and Time Control



PK/E 2.1

Memory Card OBELISK top2 for Radio Time Switch

The memory card can be used for transferring switching programs to Radio Time Switch.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	PK/E 2.1	2CDG120043R0011		0.02	1



TR/A 1.1

Time Receiver GPS, SM

For the reception and processing of the GPS signal, as well as for brightness and temperature measurement. The sensor measures the brightness and outside temperature and sends them on the KNX bus. Likewise the time, date and geographical coordinates are send to the KNX bus. Additionally the sunrise and sunset times are also send to the bus. With integrated Bus Coupler.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	TR/A 1.1	2CDG120060R0011		0.09	1

ABB i-bus® KNX

Visualisation, Display and Signalling



UK/S 32.2

Universal I/O Concentrator, 32-fold, MDRC

Used to connect push buttons or signal lamps, e.g. to an operating/display tableau. It has 32 channels which can be freely parameterised as inputs/outputs using the ETS software. The device requires an external 12 or 24 V DC auxiliary power supply, (e. g. NT/S 24.800).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	UK/S 32.2	2CDG110071R0011		0.18	1



MT 701.2, WS
with T-RAHM, WS

Display and Control Tableau, FM

For indication of switching status, fault reports and measurement values. Using the robust push buttons, electrical consumers can be manually switched, values can be set in addition to timer programs and light scenes. The alarms can also issue an acoustic warning. The FM wall box simplifies mounting.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
silver	–	MT 701.2, SR	GHQ6050059R0006		1.24	1
white	–	MT 701.2, WS	GHQ6050059R0005		1.16	1
Coverframe for MT701, silver	–	T-RAHM, SR	GHQ6050059R0012		0.17	1
Coverframe for MT701, white	–	T-RAHM, WS	GHQ6050059R0011		0.16	1
Wall Box for MT701, FM	–	UP-KAST 2	GHQ6050059R0014		0.44	1

Centralised and comfortable operation
The new freedom

Modern home automation has never been as comfortable. With intuitive gestures, the way you operate your smartphone or tablet. This is how you control light, blinds, heating, music and much more with the utmost in comfort. Individual or in single scenes. Just as you please via expressive touch panels or via app of mobile devices. Both at home and while travelling. Discover the possibilities of limitless freedom.



—
01

Device features worth mentioning:
- Capacitive touch with the support swiping gestures
- Up to 30 pages with a maximum of 480 control elements
- 30 logic functions
- 80 fault and alarm messages which can be stored in a list and exported
- Up to 30 weekday timers with astro function which can be set by the user
- A favourite page with a maximum of 16 favourite control elements
- Indoor video station for door communication
- Presence simulation

The colour display has a diagonal of 17.78 cm (7") in 16:9 format. The special feature of the Busch-SmartTouch®: It has a minimal mounting height only 13 mm. The panel is available in two colour versions – in genuine black or white glass. This allows it to be perfectly combined with the carat® and Busch-axcent® switch ranges. The bottom design bar made of brushed stainless steel lends the panel that visual refinement.

In combination with the mounting frame the Busch-SmartTouch® can be mounted on the old ABB control panel box, normal flush-mounted boxes or also on the new ABB-Welcome table stand.

—
01 Busch-SmartTouch®, black

Busch-ControlTouch®

Smartphones, tablets and smartwatches or PCs turn into a practical remote control, thanks to the Busch-ControlTouch®. It connects the KNX installation with the IP network and controls all KNX functions in the building.

Works with SONOS

New features:
- Works with Sonos
- RTC integration compatible with ClimaEco
- Background pictures with bubble controls

Device features worth mentioning:
- External access the the KNX system
- Easy creation of individual scenes
- Integrated weekly timer (with astro function)
- Integrated logic editor
- Recording and display of diagrams
- Sonos and Philips Hue connection
- Connection of IP cameras with MJPEG protocol possible
- Integrated rights and user management
- Alarm messages via e-mail and/or push notification
- iOS widget for fast access from the mobile terminal device



The applications for iOS and Android create intuitive operation the same as the PC application. The compact 4 MW DIN rail can be parameterized via the MyBuildings portal, thereby making it completely future-oriented for future system extensions and modifications. In addition: Many useful services (e.g. external access to the KNX system or a notification service) through connection to the MyBuildings portal Cloud are very easy to implement. Whether in a single residential unit, in a large apartment block or at the workplace – the Busch-SmartTouch® intelligently controls the home automation. Either locally or while travelling. With the Busch-SmartTouch® you have complete access at all times.

Busch-VoiceControl® KNX
Control completely by voice

The building of the future recognises the needs of its users. It reacts individually – automatically and without being asked to do so.



—
01 Busch-VoiceControl® KNX



—
01

- Approved solution for the systems Google Assistant, Amazone Alexa, Apple HomeKit and Alice Yandex
- Integration of lighting, heating and blind control systems
- All voice commands can be used simultaneously
- Control up to 150 functions
- HomeKit certification allows control of the KNX system from other Home-Kit devices, such as the iPad, iPhone and Apple TV

ABB i-bus® KNX

Visualisation, Display and Signalling



6136/07-811-500

Busch-SmartTouch® 7", SM

Free programmable KNX touch display as a control, notification and operation center for the entire house. Works as a video indoor station with the ABB-Welcome Door Entry System. During the conversation a picture of the visitor can be taken and stored in the picture memory. For the display and operation of the following KNX standard functions: switching, dimming, slider, blind, RGBW LED control, step switch, RTC, scene switch, display element, audio control. With scene and logic functions, presence simulation and time programs.
Displays alerts and malfunctions. Available with induction loop for connecting to hearing aid devices. Programmable with up to 16 functions per page.
External power supply: 20 – 32 V DC (SELV) or through the ABB-Welcome bus. The freely programmable touch display (7") comes with a resolution of 1024 x 600.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white glass	–	6136/07-811-500	2CKA006136A0205		0.94	1
black	–	6136/07-825-500	2CKA006136A0206		0.94	1



6136/27-811-500

Surface Mounting Frame for SmartTouch 7"

Surface mounting frame for mounting the Busch-SmartTouch 7" 6136/07-8xx-500 on:

- standard flush mounted wall box VDE & BS
- flush mounted installation box (6136/UP) or
- to be mounted directly on the wall
- to be mounted on the ABB-Welcome table stand

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	6136/27-811-500	2CKA006136A0209		0.358	1
black	–	6136/27-825-500	2CKA006136A0210		0.358	1



6136/07 UP-500

Busch-SmartTouch Installation Box, FM

For flush mounting and hollow panel mounting of the Busch-SmartTouch 7" 6136/07-8xx-500. Windproof.
Dimensions flush mounting (H x W x D): 152 mm x 235 mm x 60 mm.
Dimensions hollow wall (H x W x D): 146 mm x 227 mm x 50 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6136/07 UP-500	2CKA006136A0212		0.549	1

ABB i-bus® KNX

Visualisation, Display and Signalling



H8236-5W

IP touch 7 LAN / LAN

With integrated induction Loop. Can be used for ABB Welcome IP, ABB i-bus® KNX, ABB-free@home. For ABB-Welcome IP support direct connection to ABB-Welcome App. For ABB-free@home: Up to 4 pages and each with up to 16 control elements. Total 64 control frames. For ABB i-bus® KNX: Up to 8 pages and each with up to 16 control elements. Total 64 control frames. Flush mountable. Power Supply over PoE, local power supply or plug-in power supply (53011PS).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	H8236-5W	2TMA130050W0067		0.4875	1
black	–	H8236-5B	2TMA130050B0067		0.4875	1



H8236-4B

IP touch 7 LAN / Wifi

With integrated induction Loop. Can be used for ABB Welcome IP, ABB i-bus® KNX, ABB-free@home. For ABB-Welcome IP support direct connection to ABB-Welcome App. For ABB-free@home: Up to 4 pages and each with up to 16 control elements. Total 64 control frames. For ABB i-bus® KNX: Up to 8 pages and each with up to 16 control elements. Total 64 control frames. Surface/flush/desktop mountable. Power Supply over PoE, local power supply or plug-in power supply (53011PS).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	H8236-4W	2TMA130050W0065		0.4875	1
black	–	H8236-4B	2TMA130050B0065		0.4875	1



42361S-W-03



42361S-B-03

Surface-mounted box for IP touch 7

Mounting of IP touch 7'' panel on the wall.

- For surface-mounted installation of indoor station.
- The product is packed with accessories to ensure qualified installation.nstallation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	42361S-W-03	2TMA130160W0021		0.210	1
black	–	42361S-B-03	2TMA130160B0089		0.210	1



H8237-5W

IP touch 10 LAN / LAN

HD resolution display (1280x800px). With integrated induction Loop. Can be used for ABB Welcome IP, ABB i-bus® KNX, ABB-free@home. For ABB-Welcome IP support direct connection to ABB-Welcome App. For ABB-free@home: Up to 4 pages and each with up to 25 control elements. Total 100 control frames. For ABB i-bus® KNX: Up to 8 pages and each with up to 25 control elements. Total 100 control frames. Flush mountable. Power Supply over PoE, local power supply or plug-in power supply (53011PS).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white - stainless steel end strip	–	H8237-5W	2TMA130050W0055		1.044	1
white - full glass		H8237-9WG	2TMA130051W0005		1.044	1
black - stainless steel end strip		H8237-5B	2TMA130050B0055		1.044	1
black - full glass		H8237-9BG	2TMA130051B0005		1.044	1



H8237-4B

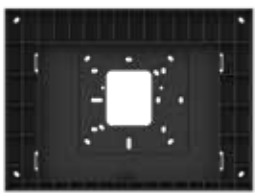
IP touch 10 LAN / Wifi

HD resolution display (1280x800px). With integrated induction Loop. Can be used for ABB Welcome IP, ABB i-bus® KNX, ABB-free@home. For ABB-Welcome IP support direct connection to ABB-Welcome App. For ABB-free@home: Up to 4 pages and each with up to 25 control elements. Total 100 control frames. For ABB i-bus® KNX: Up to 8 pages and each with up to 25 control elements. Total 100 control frames. Surface/flush/desktop mountable. Power Supply over PoE, local power supply or plug-in power supply (53011PS).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white - stainless steel end strip	–	H8237-4W	2TMA130050W0054		1.044	1
white - full glass		H8237-8WG	2TMA130051W0004		1.044	1
black - stainless steel end strip		H8237-4B	2TMA130050B0054		1.044	1
black - full glass		H8237-BG	2TMA130051B0004		1.044	1



42371S-W



42371S-B

Surface-mounted box for IP touch 10

Mounting of IP touch 10 '' panel on the wall.

- For surface-mounted installation of indoor station.
- The product is packed with accessories to ensure qualified installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	42371S-W	2TMA130161W0001		0.221	1
black	–	42371S-B	2TMA130161B0001		0.221	1

ABB i-bus® KNX

Visualisation, Display and Signalling



42361F

Flush-mounting box for IP touch 7 & 10

Flush mounted box & pre-installation box for IP touch 7 & IP touch 10 LAN/Wifi.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
black	–	42361F	2TMA130160B0132		0.263	1



53011PS

Plug-in power supply 24 V DC

Plug-in power supply 24 V DC.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	53011PS-03	2TMA130160W0029		0.13	1

ABB RoomTouch®
As individual as your home





—
The HD IPS touch display can be mounted in landscape format or portrait format for intelligent building control (alignment can be decided on-site)

- Up to 30 control elements
- The full hand activates a pre-defined “coming in” scene or function
- Acoustic and haptic feedback
- Integrated proximity and brightness sensor
- Integrated room temperature controller
- Anti-glare mode for use in dark
- Integrated binary input
- Integrated external temperature sensor input
- Commissioning via ETS5 and DCA tool

ABB i-bus® KNX

Visualisation, Display and Signalling



6136/27-811-500

ABB RoomTouch® 5", FM

Freely programmable KNX touch display as a control, notification and operation center for e.g. your room. For the display and operation of the following KNX standard functions: switching, dimming, value slider, blind, RGBW LED control, step switch, RTC, scene switch, display element, audio control and Split Unit control. With scene and logic functions and time programs. Displays alerts and malfunctions. Programmable with up to max 30 functions. With a switch input and a temperature sensor input. With a proximity sensor and brightness sensor. It has haptic and acoustic feedback. There is a primary function for entering the room.

External power supply: 20 – 32 V DC (SELV). The freely programmable touch display (5") comes with a HD resolution of 720 x 1280 and a view angle of 160°.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white glass	–	RT/U 30.0.1-811	2TMA200050W0007		0.24	1
black glass	–	RT/U 30.0.1-825	2TMA200050B0005		0.24	1



6136/07 UP-500

ABB RoomTouch® Installation Box, FM

For flush mounting and hollow wall panel mounting of the ABB RoomTouch® 5" RT/U30.0.1-8xx. Windproof.

Dimensions flush mounting (H x W x D): 121 mm x 58 mm x 50 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
box	–	BOX/U 5.1	2TMA200160B0003		0.10	1



CT/S 2.1

Busch-ControlTouch® 2, MDRC

Busch-ControlTouch® is a visualisation server for mobile end devices (iOS and Android) and Window computers. Not only for visualise and control your complete KNX installation but also:

- Sonos Bridge with a complete integration of the Sonos API (Works with Sonos) (NEW)
- Can be used as a Bridge between KNX and Philips Hue
- Visualisation of your IP camera's, with support of pan, till and zoom
- Unlimited time programs and scenes and they can be edited by the end user
- Integrate Webpages into your design for maybe weather information or traffic information
- Alarm messages can be sent as email or as a push notification (including a snapshot of an IP camera) but can also be heard on your Sonos System (NEW)
- Can be used as a UPnP bridge, so you can control e.g. your UPnP enabled Receiver via KNX
- Statistics and charts support with 5 period types (hour, day, week, month, year)
- Unrestricted personal profiles with an unlimited number of pages and controls
- Easy to use presence simulation, that can be edit by the end customer and with no limitation of participants
- Visualisation functions: dimmer, RGB(W) control, switch, blind and shutter, heating/cooling, air conditioning, scenes, button row (max. 6 buttons), IP camera, status display, value transmitter, Sonos control, and UPnP control
- Has a flexible and unrestricted Script Editor for more complex logical functions based on LUA (NEW)
- Automatic cloud backups including scenes, time programs and presence simulation data (NEW)
- Complete commissioning is online and live. You can do it from everywhere and you don't need to drive to the customer
- First commissioning with Wizard support (NEW)
- Loading the software into the device can be done without Internet
- Device has a direct KNX interface or can communicate via an IP Interface via the bus
- Visualisation as a list view and/or with background pictures with round, rectangle or transparent controls (NEW)
- Secured remote access via our Cloud solution (For this function, you pay a monthly fee)
- Functional extensions and updates via firmware and software updates.

Security:
This device supports extensive security options to protect your installation and privacy. All communication between the app your installation and our cloud is encrypted and always based on the highest possible standards. The communication between the different parts always requires a username and password. The end user can also protect pages with a pin code, Touch ID or Face ID. Additionally end users can set up local users with access rights to shield certain parts of the home installation or allow them access only to specific parts.
External power supply: 10-36 V DC (SELV)
Control element: freely programmable touch surfaces
Bus voltage: 24 V
Protection class (Device): IP 20
Temperature range (Device): 0 °C to 70 °C
Dimensions: (L x W x D): 90 mm x 72 mm x 60 mm, Module width: 4 MW

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	CT/S 2.1	2CKA006136A0218		0.254	1

ABB i-bus® KNX

Visualisation, Display and Signalling



VCO/S 150.2

Busch-VoiceControl® 2, MDRC

A certified voice control gateway for the combination of a KNX system with a voice control system. Acts as a gateway and guarantees that you can operate the KNX components in a house and query their status using Apple, Amazon, Google and Yandex devices. This component makes it possible to operate the lighting, blind or room temperature controller using simple voice control. Up to 150 functions can be used. Busch-VoiceControl® is an official certified HomeKit accessory. Complete web-based commissioning. Compatible with ABB i-bus® KNX. External power supply: 10-36 V DC (SELV).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	VCO/S 150.2	2CKA006136A0220		0.254	1



CP-D 24/2.5

Power Supply Unit, 24 V DC, 2.5 A

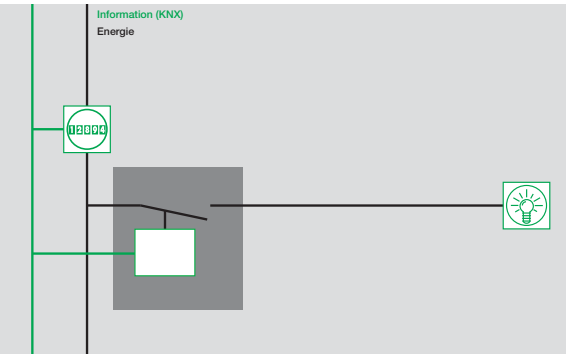
For Busch-SmartTouch® 7" 6136/07-8xx-500, Busch-priOn® Power Bus Coupler 6120/13-500 and Busch-ControlTouch®2 CT/S 2.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	CP-D 24/2.5	2CDG120037R0011		0.252	1

ABB i-bus® KNX
Energy Management

ABB offers various solutions for decentral energy measurement on the basis of the KNX standard.

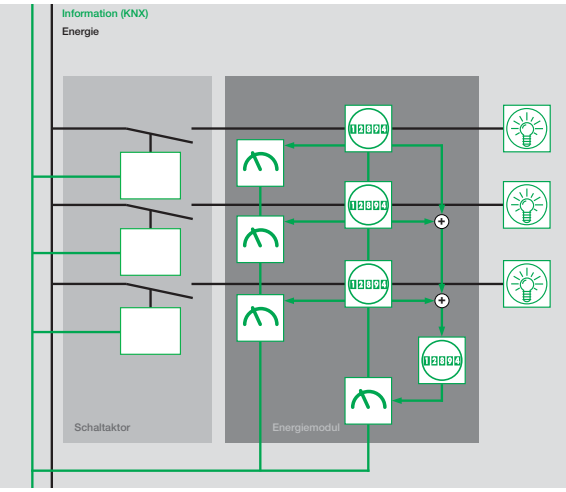
Version 1



Electronic energy meters make the current energy values available on the KNX bus system in conjunction with a KNX interface. The measured data can be intermediately stored, evaluated and visualized from here.



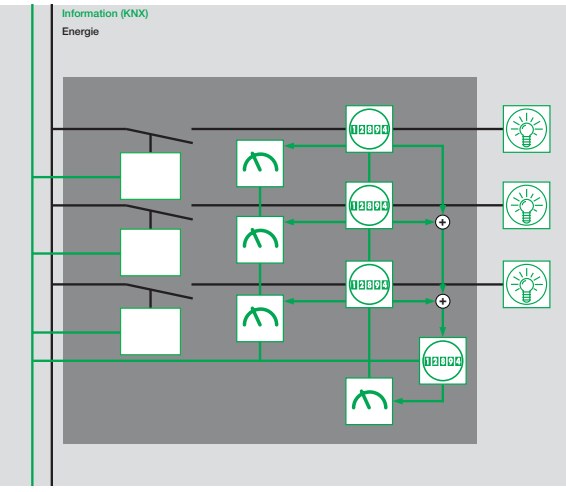
Version 2



The Energy Module can record the energy consumption for the individual devices. It is used particularly when upgrading existing KNX systems and wherever energy measurement is required without switch functions. It facilitates a detailed and transparent insight into the energy consumption of a building. The current meter values can be sent and evaluated.



Version 3



The Energy Actuator facilitates control of the connected consumer loads via the ABB i-bus® KNX. For each of the three switch channels, the individual consumption can be measured in the same way as for the Energy Module. For every channel, the proven functionality of the ABB i-bus® KNX Switch Actuators are available.



Intermediate meter for electrical energy

Electrical consumer (load)

Energy meter

ABB i-bus® KNX
Energy Management

	Energy Module EM/S 3.16.1	Energy Actuator SE/S 3.16.1	Meter Interface Module ZS/S 1.1 [1]
General			
Supply voltage	KNX	KNX	KNX
Type of installation	DIN-Rail	DIN-Rail	DIN-Rail
Module width (18 mm)	4	4	2
Number of channels	3	3	–
Rated current I_n	16/20 A	16/20 A AX (C-Load)	–
Measuring range Current	0.025...20 A	0.025...20 A	Depending on meter connected [2]
Measuring range Voltage	95...265 V	95...265 V	Depending on meter connected [2]
Measuring range Frequency	45...65 Hz	45...65 Hz	50/60 Hz ± 5 %
Measurement values			
E – Active energy [kWh]	■	■	■
U – Voltage [V]	■	■	■
I – Current [A]	■	■	■
F – Frequency [Hz]	■	■	■
P – Active power [W]	■	■	■
Q – Reactive power [var]	–	–	■
S – Apparent power [VA]	■	■	■
PF – Power factor	■	■	■
CF – Crest factor	■	■	–
General functions			
Function Switch	–	■	–
Function Time	–	■	–
Function Scene	–	■	–
Function Logic	–	■	–
Function Priority	–	■	–
Load control with Energy Actuators as Master (up to ten SE/S 3.16.1 as slaves)	■	■	–
Load control as Slave	–	■	–
Sending delay (for value request)	–	–	■
Commissioning and diagnostic function			
Control and diagnosis via ABB i-bus® Tool	■	■	–

■ = Function is supported

– = Function is not supported

1) = In combination with ABB Energy Meter A and B series

2) = See also Electricity Meters Overview



SE/S 3.16.1

Energy Actuator, 3-fold, 16/20 AX, MDRC

Records the energy consumption of the connected electrical loads in the load circuit. Various electrical variables can be monitored and load peaks can be limited by simple load control. The 3 output channels can be manually operated and display the current switching state. The Energy Actuator can switch resistive, inductive and capacitive loads The switching capacity corresponds to the SA/S X.16.6.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	SE/S 3.16.1	2CDG110136R0011		0.3	1



EM/S 3.16.1

Energy Module, 3-fold, 16/20 AX, MDRC

Measures energy consumption and various electrical parameters in the terminal current. Active power, Current, Voltage and Frequency can be monitored via threshold values and peak loads can be limited through a simple load control. The measured values are provided via ABB i-bus® KNX.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	EM/S 3.16.1	2CDG110148R0011		0.2	1



ZS/S 1.1

Meter Interface Module, MDRC

It records consumption and measured values of the electrical energy consumption meters. Using an infra-red interface, the ABB energy meter types of the A- and B-series are incorporated. The information and data which is read can be used, for example, for cost centre accounting, energy optimisation, monitoring of installations and visualisation.

The following values are available (depending on the meter type):

Meter reading	
Active energy	Tariff 1-4, total
Reactive energy	Tariff 1-4, total
Power values	
Active power	L1, L2, L3, total
Reactive power	L1, L2, L3, total
Apparent power	L1, L2, L3, total
Phase angle power	L1, L2, L3, total
Power factor	L1, L2, L3, total
Instrument values	
Voltages	L1-N, L2-N, L3-N, L1-L2, L2-L3, L1-L3
Currents	L1, L2, L3, N
Phase angle voltage	L1, L2, L3, total
Phase angle current	L1, L2, L3, total
Quadrant	L1, L2, L3, total
Mains frequency	
Other	
Transformer ratio	Read CT and VT
Power failures	Send and delete
Tariffs	Read and changeover
Status information	Send and read
Communication monitoring	
Intermediate meter	Read and reset

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	ZS/S 1.1	2CDG110083R0011		0.13	1

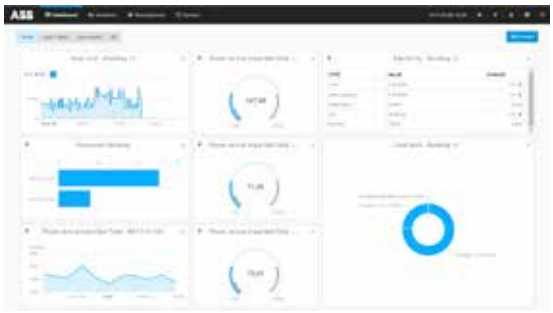
Energy Management
ABB EQmatic

With the new ABB EQmatic series, ABB offers a solution for storing, displaying and analyzing the consumption data of electricity, gas, water and heat meters. Thus, energy flows and costs in the building can be monitored and made transparent.

User interface offers helpful features
The commissioning, evaluation and analysis of the data are carried out via the web-based graphical user interface. For a detailed monitoring the devices offer several analysis functions such as historical data analysis, benchmark functions, cost analysis, instantaneous values etc.

Increased Energy efficiency
This serves to increase energy efficiency and as a basis for further operational optimizations, based on the energy management standard ISO 50001.

High flexibility
Various export functions such as scheduled reports via FTP or E-Mail are available for further data processing.
The data sharing options via Modbus TCP and API allow the integration into supervisory systems.



—
Intuitive web-based user-interface to access meters easily. It can be flexibly configured to meet specific demands. For a quick overview, metering data and analytic charts can be individually configured and arranged here.



ABB i-bus® KNX

Energy Management



QA/S 1.16.1

Energy Analyzer, KNX, 16 Devices, MDRC

Compact and web-based stand-alone device for energy management applications. For monitoring, logging, displaying and analyzing consumption data of up to 16 electricity, gas, water or heat meters via KNX TP. In addition measured values such as temperature, humidity, etc. can be processed and displayed. The alarm function allows early warning (e.g. via E-mail) if any value exceeds defined limits. The user interface provides graphical analysis functions, e.g. dashboard, historical data, instantaneous values, benchmark functions, cost allocation according to consumer groups and more. In order to increase energy efficiency, defined loads can be selectively switched off with the load control function if they exceed a configurable load limit. For further processing data can be exported cyclically (e.g. every month) via E-mail or upload to FTP server. Several data sharing options (e.g. Modbus TCP, Rest API) allow the communication with other systems.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	4	QA/S 1.16.1	2CDG110224R0011		0.19	1

ABB i-bus® KNX
Energy Management



QA/S 3.16.1



QA/S 3.64.1

Energy Analyzer, M-Bus, MDRC*

Compact and web-based stand-alone devices for energy management applications.
For monitoring, logging, displaying and analyzing consumption data of up to 16 or 64 electricity, gas, water or heat meters via M-Bus. Automatic detection for ABB EQ meters (A/B-Series). Access to the device via web browser. The user interface provides graphical analysis functions, e.g. dashboard, historical data, instantaneous values, benchmark functions, cost allocation according to consumer groups and more. For further processing data can be exported cyclically (e.g. every month) via E-mail or upload to FTP server.
Several data sharing options (e.g. Modbus TCP, Rest API) allow the communnication with other systems.
* Pure M-Bus Master, no data routing from M-Bus to KNX

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
M-bus, 16 Devices	4	QA/S 3.16.1	2CDG110226R0011		0.15	1
M-bus, 64 Devices	4	QA/S 3.64.1	2CDG110227R0011		0.15	1



QA/S 4.16.1



QA/S 4.64.1

Energy Analyzer, Modbus, MDRC*

Compact and web-based stand-alone devices for energy management applications.
For monitoring, logging, displaying and analyzing consumption data of up to 16 or 64 electricity, gas, water or heat meters via Modbus RTU. Automatic detection for ABB EQ meters (A/B-Series). Access to the device via web browser. The user interface provides graphical analysis functions, e.g. dashboard, historical data, instantaneous values, benchmark functions, cost allocation according to consumer groups and more. For further processing data can be exported cyclically (e.g. every month) via E-mail or upload to FTP server. Several data sharing options (e.g. Modbus TCP, Rest API) allow the communnication with other systems.
* Pure Modbus RTU Master, no data routing from Modbus RTU to KNX

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Modbus RTU, 16 Devices	4	QA/S 4.16.1	2CDG110228R0011		0.15	1
Modbus RTU, 64 Devices	4	QA/S 4.64.1	2CDG110229R0011		0.15	1

ABB i-bus® KNX
Safety and Monitoring



SMB/S 1.1

Fault Monitoring Unit, MDRC

It is used to detect and manage up to 100 fault messages which are processed within the unit and can be forwarded to a display unit. Furthermore, an optical and an acoustic collective status signal is provided. Messages can be acknowledged and data losses can be reported.
The devices support message formats to DIN 19 235: messages with continuous lighting, new value messages with simple flashing light, initial value messages with simple acknowledgement, motor messages. Current values can be centrally scanned.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	SMB/S 1.1	GHQ6310085R0111		0.12	1



EUB/S 1.1

EIB Monitoring Unit, MDRC

Monitors up to 100 bus devices in KNX systems, which can be divided into 5 groups. The devices are monitored to ensure their presence and minimum functionality (send and receive). Monitoring can be undertaken based on the physical address or the group address. A total of four different monitoring modes are available. No additional power supply required, the device is powered from KNX bus.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	EUB/S 1.1	2CDG110066R0011		0.12	1



BDB/S 1.1

Data Logging Unit, MDRC

It detects local operation cycles and operating hours to plan the maintenance or durability evaluation of the devices. For each of the 35 channels to be monitored, limit values can be set and a message sent if this limit is exceeded. The logging of operating hours can be predetermined for the total or remaining time. These values can be modified via communication objects. No additional power supply required, the device is powered from KNX bus.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	BDB/S 1.1	2CDG110067R0011		0.12	1

ABB i-bus® KNX

Security – Alarm System KNX



The compact solution for security applications – the Security Terminals
The Security Terminal provides a compact security solution for KNX applications for detection and signalling of intrusion, personal attack and technical hazards. They are used as the interface between the security technology sensors and KNX.

Depending on the configuration, the devices feature 2, 4 or 8 inputs – so-called detector circuits or zones. They are used for monitoring connected passive detectors (e.g. magnetic contacts, glass break sensors, etc.) to the ABB i-bus® KNX as well as for connection of floating contacts in applications with enhanced security requirements.

Through the connection of security technology and KNX, the detectors employed can, in addition to the security functions, also be used for heating control (e.g. window contact signal for control of the heating valve) or lighting control (e.g. central switch off of the lighting when the alarm logic is set).

The Security Terminals can be used as autonomous systems with the integrated alarm logic, in conjunction with the Security Module SCM/S or with an Intrusion Alarm Panel GM/A 8.1 or L240.



The application program offers several functions for security applications, such as

- Direct and delayed setting
- Internal setting with occupancy and external setting when absent
- Setting of the connected detector types
- Reset input and setting input
- Detector monitoring
- Zones (detector circuits) can be switched off
- Different types of alarms
- Setting for freely programmable relay outputs, e.g. for direct control of signalling devices.

ABB i-bus® KNX

Security – Alarm System KNX

	Standard Security				Professional Security
	MT/U 2.12.2	MT/S 4.12.2M	MT/S 8.12.2M	SCM/S 1.1	GM/A 8.1
General					
Supply voltage	KNX	KNX	KNX	KNX	100 – 230 V AC
Auxiliary power supply	12 V DC	12 V DC	12 V DC	–	–
Type of installation	FM	DIN-Rail	DIN-Rail	DIN-Rail	SM
Module width (18 mm)	–	4	4	2	–
Inputs (extendable via bus)	2	4	8	0 (64)	8 (344)
Outputs	2 x Relais	3 x Relais	3 x Relais	1 x Relais	4 x Relais 4 x Signaling devices
Functions					
Connection of conventional security sensors/devices	■	■	■	–	■
Connection of 4-wired security bus sensors/devices	–	–	–	–	■
Event log	–	–	–	■ (250)	■ (10,000)
Remote alarming	Optional via KNX	Optional via KNX	Optional via KNX	Optional via KNX	Integrated E-Mail Voice messages
Back-up power supply					
Optional via NTU/S 12.2000.1 and SU/S 30.640.2	■	■	■	–	–
Optional via SU/S 30.640.2	–	–	–	■	–
Integrated back-up power	–	–	–	–	■
Certifications					
VdS	–	–	–	–	Class C
EN 50 131/IEC 62 642	–	–	–	–	Grade 3
Commissioning and diagnostic functions					
Commissioning and diagnostic via webserver	–	–	–	–	■

■ = Function is supported

– = Function is not supported

ABB i-bus® KNX

Security – Alarm System KNX



SCM/S 1.1

Security Module, MDRC

The module provides the necessary logic functions to link the various KNX devices (e.g. zone terminals) to a security system. Up to 64 different zones can be evaluated via communication objects. Arming, operation and display are also implemented using communication objects. The device has a freely programmable relay output for connection of a signal encoder. An uninterruptable KNX power supply with battery back-up is recommended for security function buffering on mains failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	SCM/S 1.1	2CDG110024R0011		0.13	1



MT/S 8.12.2M

Security Terminal

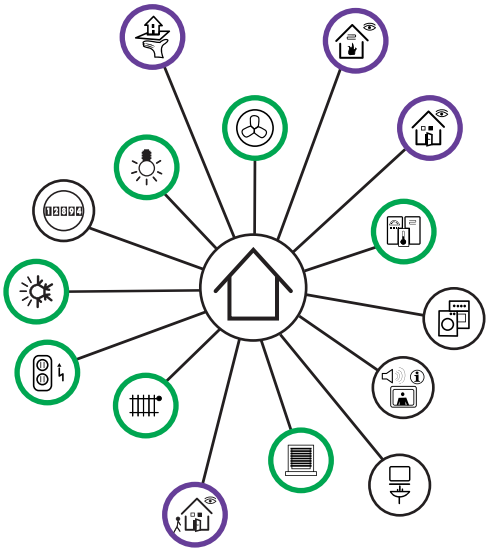
They are used as the interface between the security technology sensors and the KNX.
The device features inputs, so-called zones. They are used for monitoring connected passive detectors, e.g. magnetic contacts and/or glass break sensors on the ABB i-bus® KNX and/or for connection of floating contacts in applications with enhanced security requirements.
The device can be used as a system with autonomous alarm logic or in combination with the Security Module SCM/S or an Intrusion Alarm Panel. The device requires an external 12 V DC SELV auxiliary power supply, (e.g. NTU/S 12.2000.1).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
4-fold, MDRC	4	MT/S 4.12.2M	2CDG110109R0011		0.19	1
8-fold, MDRC	4	MT/S 8.12.2M	2CDG110110R0011		0.19	1
2-fold, FM	–	MT/U 2.12.2	2CDG110111R0011		0.08	1

ABB i-bus® KNX

Security – Alarm System GMA



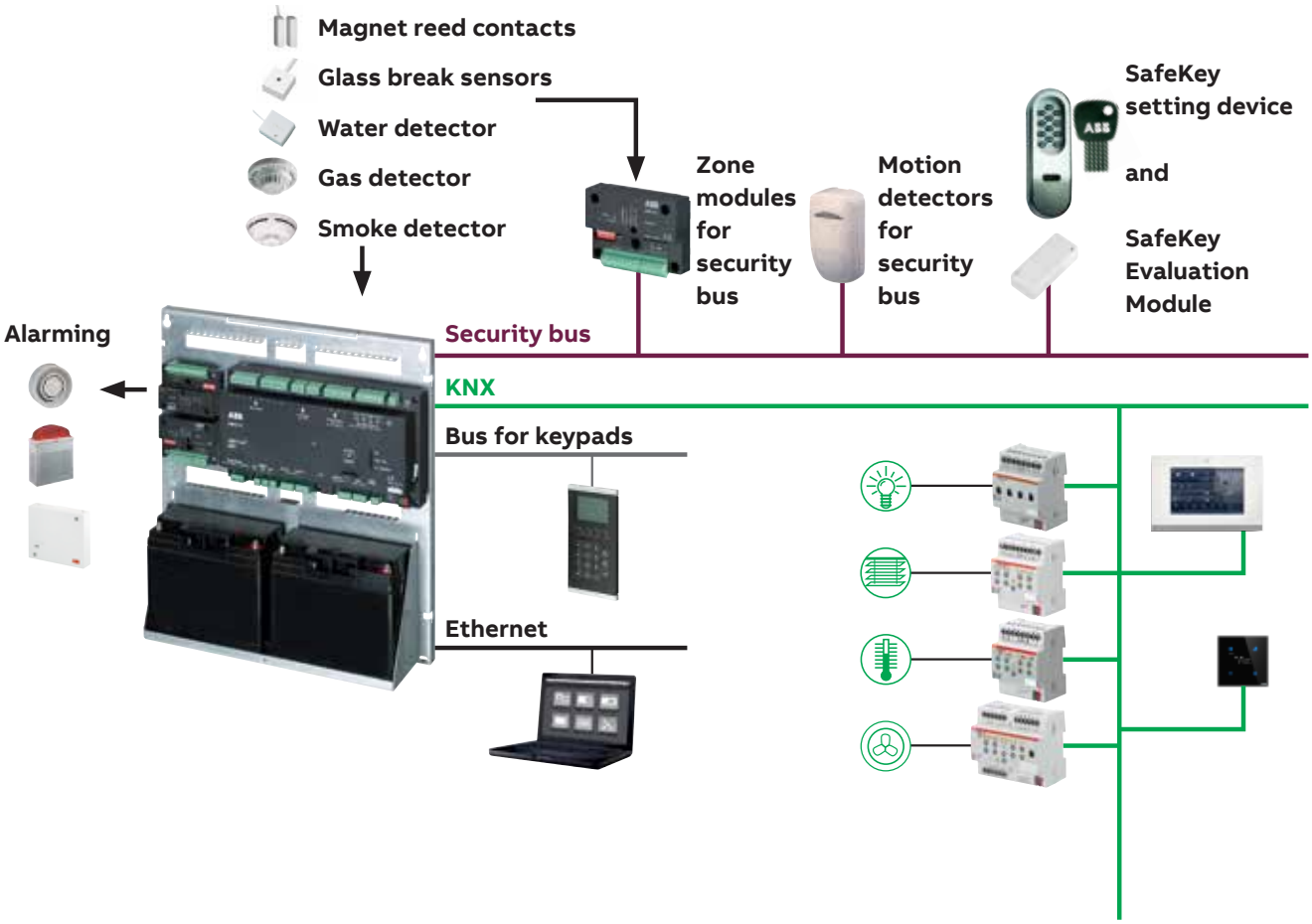


Professional alarm system for KNX experts

With the KNX Security Panel GM/A 8.1 ABB presents the first security system that is compatible with both, the international KNX standard (14543-3-x ISO / IEC) and the international standard for alarm systems (ISO / IEC 62642). Therefore the KNX Security Panel GM/A 8.1 is ready for a worldwide usage and expands business opportunities of nearly 40,000 KNX partners in 124 countries. The system is the perfect solution for projects ranging from simple to high security requirements.

ABB i-bus® KNX

Security – Alarm System GMA



A complete product product portfolio: One system – all interfaces

To fulfill the project requirements ABB provides the user besides the panel and keypad a complete product portfolio for professional alarm technology as well as known solutions for all trades of KNX building automation.

The KNX Security Panel is for universal usage for all kinds of hazardous situations in buildings like intrusion, personal attack, smoke, gas- and water leakage.

ABB i-bus® KNX

Security – Alarm System GMA



KNX Security Panel without cover, integrated zone modules and batteries

- Ethernet connection for programming, diagnostics and operation via a standard webbrowser
- Direct inputs for security sensors
- Keypads
- Internal, external or remote alarming
- Security bus for security sensors, zone modules and setting devices
- KNX interface to display alarm states via displays of building automation and to control automatic building functions with support of security sensors.

The KNX Security Panel provides all needed system interfaces: An ethernet connection is used for programming, diagnostics and operation via a standard webbrowser as well as integration into the building network. The security sensors will be connected directly to the panel inputs or via the security bus, where the setting device for the system is also connected. Furthermore the panel provides interfaces for the also newly developed keypads and for internal, external or remote alarming. Finally the integrated KNX interface allows on the one hand to display alarm states via displays of building automation and on the other to control automatic building functions with support of security sensors.

ABB i-bus® KNX

Security – Alarm System GMA



GM/A 8.1

KNX Security Panel, SM

For the protection of small to medium residential or commercial properties against intrusion and technical faults. The Security Panel is suitable for up to five logical areas. It has 8 integrated zones for detectors, a Security Bus for Bus-detectors, Bus-Zone Modules and Setting devices, Ethernet connection (RJ45) for programming, operating and displaying system status via Web-Browser and an integrated KNX interface. The Security Panel GM/A 8.1 complies with the requirements to VdS classes A, B and C, to the European Standard EN 50131, Grade 1 to 3 and to ISO/IEC 62642 Grade 1 to 3 as one-area system.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	GM/A 8.1	2CDG110150R0011		10.5	1
Off the wall tamper contact	–	WA/Z 1.1	2CDG110174R0011		0.2	1



SAK17

Sealed Lead Acid Battery, 12 V DC, 18 Ah

Sealed lead acid battery for power backup in connection with a uninterruptible power supply or security system.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SAK17	GHV9240001V0013		6.487	1



BT/A 1.1



BT/A 2.1

Keypad for GM/A 8.1

Used to operate and display the information of the system states of the GM/A 8.1 KNX Security Panel. System messages are displayed on a four-line LCD display. The multifunction and special keys mean that all the system functions can be operated easily. Safety-relevant functions are protected by a user PIN. Fife Keypads can be connected to each Security Panel. There is no need for an external voltage supply, the keypads are supplied via the Keypad-Bus. The device can be used in systems with increased system requirements according to VdS Class A, B and C, DIN VDE 0833 Level 1, 2 and 3 and EN 50131/IEC 62642 Level 1, 2 and 3.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
black	–	BT/A 1.1	2CDG280001R0011		0.5	1
white	–	BT/A 2.1	2CDG280002R0011		0.5	1

ABB i-bus® KNX

Security – Components



MG/A 4.4.1

Zone Module, 4-fold

To connect to Security Panel GM/A 8.1 via the Security-Bus. For expansion of the Security-Panel by 4 detector zones. Used for connection to the exterior perimeter detectors such as magnetic reed contacts and passive glass break sensors. The module has 4 zones to which several detectors can be connected. The status of each zone is displayed with a status LED. The Zone Module delivers the control signals and the supply voltage for the external detectors. There is no need for an external voltage supply, the Zone Modules are supplied via the Security-Bus.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
to mount in the Security Panel housing	–	MG/E 4.4.1	2CDG110178R0011		0.1	1
in a surface mounting housing for installation in the building	–	MG/A 4.4.1	2CDG110186R0011		0.1	1



IR/XB

Passive IR Bus Motion Detector, 15m, VdS B

For direct connection to the security-bus of the Intrusion Alarm Panel GM/A 8.1. The motion detector with passive infrared technology is VdS class B / EN Grade 2 certified. It facilitates monitoring of an area with an infrared range of up to 15 m.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
VdS B/EN Grade 2	–	IR/XB	2CDG230023R0011		0.15	1



EIM/XB

Dualtech Bus Motion Detector, 15m, VdS B

For direct connection to the security-bus of the Intrusion Alarm Panel GM/A 8.1.
The Dual-Motion Detector combines proven passive infra-red technology with temperature-independent microwave technology. The combination of both functional principles results in a detector featuring high immunity to false alarms, even with unfavourable ambient conditions, and which still has high detection security. The detector is VdS class B / EN Grade 2 certified. It facilitates monitoring of an area with an infrared range of up to 15 m.
For use in EU countries only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
VdS B/EN Grade 2	–	EIM/XB	2CDG230025R0011		0.15	1

ABB i-bus® KNX

Security – Components



L240/BS

SafeKey Evaluation Module

For connection of the SafeKey components as well as all components required for a setting door (magnetic contacts, lock bolt switching contact, bolt lock, internal siren). For direct connection to the security-bus of the Intrusion Alarm Panel GM/A 8.1. The management of the electronic keys from the SafeKey range is undertaken completely via the WebUI of the Security Panel GM/A 8.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	L240/BS	GHQ3050031R0001		0.13	1



SAD/GAP

Distribution Box, SM

For installation of the Bus Module L240/BS.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SAD/GAP	2CDG220021R0011		0.131	1



SCS

SafeKey Chipkey

It is an electronic carrier medium for setting / unsetting via a SafeKey Wall Reader. A SafeKey Chipkey can be authorized for any number of different SafeKey systems with different levels of authorization.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SCS	GHQ3050027R0001		0.02	1



WEL/A, ES

SafeKey Chipreader, SM

For setting/unsetting with the Evaluation Module L240/BS. The unit is actuated by inserting the electronic SafeKey chipkey. The SafeKey Wall Reader WEL is equipped with the key reader and an acknowledgement buzzer. VdS class C.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	WEL/A, ES	GHQ3050023R0001		0.38	1



WELT/A, ES

SafeKey Chipreader with Keypad, SM

For setting/unsetting with the Evaluation Module L240/BS. The unit is actuated by inserting the electronic SafeKey chipkey. The SafeKey Wall Reader WELT is equipped with the key reader, a keypad and an acknowledgement buzzer.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	WELT/A, ES	GHQ3050024R0001		0.45	1



ESPE/M

Electrical Mini Bolt Lock

The ESPE/M Mini Bolt Lock is used together with an intrusion alarm system to implement the inevitability condition. The motorized bolt lock additionally locks the door to the set area, preventing unintentional opening of the door when the intrusion alarm system is set. The ESPE/M Mini Bolt Lock is connected to the L240/BS Evaluation module for GM/A 8.1 KNX Security Panel.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	ESPE/M	2CDG270010R0011		0.13	1

ABB i-bus® KNX

Security – Components



EIM/D

Dualtech Ceiling Detector, EN Grade 2, 10 m

Operates according to the proven detection principle of the EIM detector (infra-red technology and electromagnetic field) over 360°. The range of the infrared component can be adapted via the mounting height while the range of the electromagnetic field can be adjusted separately using a jumper. The detector is fitted with a walk test LED. Colour: RAL 9010 pure white. For use in EU countries only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	EIM/D	2CDG230039R0011		0.14	1



MRS/W

Magnet Reed Contact Set

For opening surveillance of windows and doors, complete for bolting or drilling. Contents: 1 magnet, 1 reed contact with 4.0 m connection cable LIYY 4 x 0.14 mm², 2 housings, 2 spacer plates, 2 flanges and 4 anti-magnetic fixing screws. VdS class B.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	MRS/W	GHQ3201972R0001		0.1	1
brown	–	MRS/B	GHQ3201972R0002		0.1	1
Saver Set (20 pcs.), white	–	VMRS/W	GHQ3201972R0011		1.99	1
Saver Set (20 pcs.), brown	–	VMRS/B	GHQ3201972R0012		1.99	1



MC-C 1.1

Rolling Door Reed Contact

The Rolling Door Reed Contact Set is mounted mainly on rolling, sliding, and tilting doors.
The contact housing is mounted on the ground (a flat support surface is required).
Only screws made of anti-magnetic material may be used for mounting.
Due to the weatherproof and mechanically stable design of the contact housing, the circuit is mostly protected against damage when rubber-tired vehicles drive over it.
The 4-wire cable is protected by a plastic-coated metal hose.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
VdS Class B, EN Grade 2	–	MC-C1.1	2CDG250006R0011		0.3	1



SPGS/W

Passive Glass Break Sensor

For opening surveillance of windows and doors, complete for bolting or drilling. VdS class B.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	SPGS/W	GHV9220004V0009		0.11	1
Loctite Adhesive for Glass Breaking Detectors	–	LKS	GHQ4001906R0001		0.06	1
Electrical Tester for SPGS	–	GP2	GHV9220004V0004		0.1	1



WRK/W

Lock Bolt Switching Contact with Connection Cable

For installation in the strike plate, for lock monitoring on doors. Water-tight IP 67, with 2.5 m connection cable LIYY 3 x 0.14 mm². VdS class C.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	WRK/W	2CDG250003R0011		0.03	1



VSUE

Window Lock Monitoring Contact

Lock monitoring is carried out with a special magnet and a reed contact. The magnet is mounted on the push rod of the window sash while the reed contact is mounted on the frame. The connection cable LIYY 4 x 0.14 mm² is 4 m in length. VdS No. G 190074. VdS class C.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	VSUE	GHV9210018V0022		0.09	1



ND/W

Emergency Call Button, white

For manual alarm tripping. Complies with the police regulations since it features permanent trip recognition, momentary-contact function, with cover contact. Surface mount version. Colour: white. VdS class C.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Surface mounting	–	ND/W	GHQ7132443R0011		0.15	1
Flush mounting	–	NDU/W	GHQ7132443R0021		0.15	1



NDA/W

Cover Plate for Emergency Call Button, white

Used primarily in the banking sector or other institutions, where unintentional alarm triggering is possible due to public access.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	NDA/W	GHQ7132443R0004		0.03	1

ABB i-bus® KNX

Security – Components



TD-C 1.1

Gas Detector with Relay Contact

The Gas Detector is used for monitoring gas leakage of domestic and commercial rooms. It detects gases like propane, methane and butane as well als acetylene, city gas and natural gas. The detector can be connected to ABB intrusion and fire alarm control panels, as well as ABB i-bus® binary inputs via a potential-free relay contact. Suitable as a stand-alone device. An external power supply with 12-24 V DC is required.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	TD-C 1.1	2CDG220023R0011		0.167	1



SWM 4

Water Detector for Detector Groups

A resin-encapsulated water detector with gold-plated Termipoint pins, detects water ingress, e.g., pipe fractures, ingress of groundwater and sewage, water damage caused by washing machines and dishwashers etc. before the damage becomes too expensive.
For operation directly on detector circuits of intrusion alarm panels or security terminals.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SWM 4	GHQ4030001R0004		0.16	1



SWM 4/RN

Water Detector with Relay, 12 V

Features a potential free changeover contact output, an LED parallel output and a LED display. The detector resets itself automatically when the affected area dries out. The device draws its power from an external 10 ... 23 V DC voltage source.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SWM4/RN	GHQ4030001R0012		0.23	1



FC650/O

Optical Smoke Detector

Optical smoke detector in threshold alarm technology that detects smoke according to the scattered-light principle. The detectors feature an alarm indicator on the detector head that is visible from all angles, and which can be be triggered with a permanent magnet for test purposes. A detector base is provided for mounting and cable connection purposes into which the detector is simply screwed in via the bayonet connection. Each detector is equipped with an alarm LED, which displays the stored alarm in the event of an a alarm Detector/base diameter: 110 mm. VdS approved.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	FC650/O	2CDG430079R0011		0.09	1



FC650/TMAX

Thermal Maximum Detector

Static Heat Detector in threshold alarm technology, – trigger temperature 78 °C. The detectors feature an alarm indicator on the detector head that is visible from all angles, and which can be be triggered with a permanent magnet for test purposes. A detector base is provided for mounting and cable connection purposes into which the detector is simply screwed-in via the bayonet connection. Each detector is equipped with an alarm LED, which displays the stored alarm in the event of an a alarm. Detector/base diameter: 110 mm. VdS approved.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	FC650/TMAX	2CDG430081R0011		0.09	1



FC600/BREL

Relay Base, 12/24 V

Enables system-independent connection of the FC650 series fire detector to systems or devices that are not specifically designed for this detector technology. Examples include Intrusion Alarm Panels, KNX Security Terminals, elevator controls or other signal processing equipment. The detector base must be supplied by either a 12 V or a 24 V DC voltage supply. A floating 30 V DC/1 A changeover contacting is provided for transferring an alarm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	FC600/BREL	2CDG430051R0011		0.08	1

ABB i-bus® KNX

Security – Components



6833/01-84-500

Busch-Smoke Alarm® ProfessionalLine

For early detection of smouldering fires and open fires with smoke development indoors according to the photooptical measurement principle (Tyndall). With installed Lithium battery. Battery life min. 10 years. With test button and muting. Can be networked with up to 12 detectors using the radio module. Can be networked via 2-wire twisted pair cable with up to 12 detectors. Acoustic alarm: installed horn (85 dBA). Cyclic functional test. Including attachment material – VdS certified. Conform to EN 14604 studio white.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
not networkable	–	6833-84-500	2CKA006800A2720		0.154	1
networkable	–	6833/01-84-500	2CKA006800A2721		0.268	1



6835/01-84-500

Busch-Heat Alarm ProfessionalLine

Signal triggered at over 57 °C. With installed Lithium battery. Battery life min. 10 years. With test button and muting. Can be networked via 2-wire twisted pair cable with up to 12 detectors. Can be networked with up to 12 detectors using the radio module. Acoustic alarm: installed horn (85 dBA). Cyclic functional test. Including attachment material – VdS certified. Conform to EN 14604.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white	–	6835/01-84-500	2CKA006800A2723		0.268	1



6827-84

Busch-Smoke Alarm® Radio Module

For wireless networking of multiple Busch smoke alarms® / heat alarms.
With installed Lithium battery. Battery life min. 10 years. Radio frequency: 868 MHz.
Range: max. 100 m outdoors, max. 30 m indoors.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6828	2CKA006800A2514		0.268	1



6829-84

Busch-Smoke Alarm® Relay

For connecting external systems, e.g. KNX. Relay contact, floating changeover contact 230 V~ max. 5 A. Cable connection: up to 2 x 2 x 1.5 mm². With installed radio module. Rated voltage: 230 V~.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white	–	6829-84	2CKA006800A2515		0.268	1



6824-84

Busch-Smoke Alarm® Remote Control

For service purposes. With muting, test and search function.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white	–	6824-84	2CKA006800A2516		0.268	1



SSS

Indoor Siren, 12 V DC

Electronic solid-state siren with intermittent tone for alarm purposes in indoor installations. External dimensions: ø x H = 90 x 37 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SSS	GHV9270001V0001		0.17	1



SSF/G

Siren in Enclosure

An aluminium protective housing with additional protective enamel coating. Protected against sabotage by a case tamper contact. The alarm inputs are wired onto a terminal strip. With fixing screw (M4) for potential equalization on the base.
Dimensions: H x W x D = 200 x 205 x 88 mm; Color: RAL 9002 Environmental class III to VdS.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SSF/G	GHQ3050017R0001		1.64	1



SSF/GB

Siren with Strobe

An aluminium protective housing with additional protective enamel coating. Protected against sabotage by a case tamper contact. The alarm inputs are wired onto a terminal strip. With fixing screw (M4) for potential equalization on the base.
Dimensions: H x W x D = 258 x 205 x 88 mm; Color: RAL 9002 Environmental class III to VdS.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SSF/GB	GHQ3050018R0001		1.81	1

Bright prospects for all

We bring energy to buildings and the people within them – whether these are modern single residential units, all kinds of hotels or ground-breaking industrial buildings. For us, power is more than just what comes from the wire. Why? Because it forms the basis of a comfortable life. As a result, we are constantly improving every little detail, looking for the most userfriendly solution and bringing people and technology together. That's what our large company is all about – we do everything to give you the freedom of choice.



A vision for the perfect building
What's key is the synergy created in the building as a whole. It starts with the power that's created using renewable sources of energy, which then feeds into the things that this power can do for the people within – from the infrastructure in the buildings right through to the emotional experience of the occupants, from the lowest parking level right through to the most exquisite penthouse suite. Only when everything intertwines are values created, which you can experience with all your senses.

Building automation from ABB governed by our core values
All ABB solutions are checked against the six core values and constantly improved until they meet the very highest requirements in terms of technology, management and the guests.



Economic efficiency
A hotel building is for the people within. This is the only way to measure the value of what's inside. Every day, development gives rise to performance.

Safety
The building automation technology can't take a break. With a complete system, the management can count on it as a whole – and on the fact that everything is functioning safely.

Energy efficiency
You need energy for absolutely anything you wish to accomplish. That's why, for ABB, it is crucial to never waste energy and to make the most of it at the same time.

Durability
The future always comes quicker than you think. It must be easy to upgrade the technology. The new fits perfectly with what is already there.

Design
Hotels are more than just buildings. They shape the city and are sometimes a key part of the skyline. The aesthetics count – from the largest detail right down to the smallest.

Sustainability
A safe future starts today with technologies which combine all energy-saving capabilities with quality of life.

ABB i-bus® KNX
Guest Room Management

Room Outdoor Sensor with Bus Coupler, FM
Ordering possible only in connection with the design ID. The icons and/or texts are configured by means of a web configuration tool. Freely programmable function ”Do not disturb“, ”Bell“ and ”Make up room“. Push switch function: switching / dimming / blind / sending values / scenes etc. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. With integrated KNX bus coupler. With integrated temperature sensor and proximity function. The bus connection is provided via the enclosed bus terminal.



TA/U3.1.1-CG

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TA/U3.1.1-CG	2CKA006300A1549		86x86	1
Premium customization [1]	Go to configurator	TA/U3-CG	2CKA006300A1646		86x86	1



TA/U3.2.1-CG

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TA/U3.2.1-CG	2CKA006300A1585		86x115	1
Premium customization [1]	Go to configurator	TA/U3-CG	2CKA006300A1646		86x115	1



TA/U3.3.1-CG

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TA/U3.3.1-CG	2CKA006300A1597		115x86	1
Premium customization [1]	Go to configurator	TA/U3-CG	2CKA006300A1646		115x86	1

[1] The individual design can be selected via the website:
URL: https://tacteo-configurator.eu.mybuildings.abb.com/



TSN/U.2.1-CG

Room Outdoor Sensor with Room Number and Bus Coupler, FM

Ordering possible only in connection with the design ID. The icons and/or texts are configured by means of a web configuration tool. Freely programmable function "Do not disturb", "Bell" and "Make up room". With backlit room number. Push switch function: switching / dimming / blind / sending values / scenes etc. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. With integrated KNX bus coupler. The bus connection is provided via the enclosed bus terminal. The device requires a 12...24 V AC/DC external power supply to ensure its operation even with bus voltage failure.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TSN/U.2.1-CG	2CKA006300A1603		86x157	1
Premium customization [1]	Go to configurator	TSN/U-CG	2CKA006300A1653		86x157	1



TP/T 1

USB Programmer - MIFARE

USB programmer for programming MIFARE transponder cards for tacteo access control range. The USB programmer has to be connected to the PC using the USB cable provided with the USB programmer. Cards programming has to be performer, using USB programmer, with ABB MiniMAC software (will be discontinued) or ABB RoomGuard Software.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	TP/T 1	2CSY289621R3801		0.08	1



TZE/U.0.2.CK

Removal protection for access control devices for squared, horizontal and room number glass versions

Prevents the disassembly of ABB tacteo® card holders, card readers and external room sensors with/without card readers and room numbers.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	TZE/U.0.2.CK	2CSY245271S3601			



TZE/U.0.3.CK

Removal protection for access control devices for vertical glass versions

Prevents the dismantling of ABB tacteo® card holders, card readers and external room sensors with/without card readers and room numbers.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	TZE/U.0.3.CK	2CSY233741S3611			

[1] The individual design can be selected via the website:
URL: https://tacteo-configurator.eu.mybuildings.abb.com/

ABB i-bus® KNX

Guest Room Management



TR/U 1.1

Transponder Reader, MIFARE

The “transponder reader” is a flush-mounting device for British Standard wall boxes, designed to realize access control systems with a communication support based on KNX bus. It is equipped with one relay (4A @24 V AC/DC) and one input to be used for connecting external conventional card-holder (e.g. Millenium wiring accessories card-holder). The output can be programmed in three different ways: “Linked to access control”, receiving in this case switching commands from the device itself (according to transponder card validation); being a standard KNX Switch actuator output, able to be controlled by every KNX standard devices; “linked to card-holder”, that means that the relay is switched according to closing/opening internal input contact available on transponder reader. The bicolor (red-green) LED placed on the front of the device allow you to monitor device operation and can be also switched ON/OFF in the proper color according to KNX telegram (for example for DND/MUR purposes). The transponder reader can be configured with MiniMAC software (will be discontinued) or RoomGuard Software in order to behave as transponder programming device. The transponder reader requires a 12...24 V AC/DC external power supply to ensure its operation even with bus voltage failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	TR/U 1.1	2CSY235683R2001		0.050	1



TH/U 1.1

Transponder Holder, MIFARE

The “transponder holder” is a flush-mounting device for British Standard wall boxes, designed to realize access control systems with a communication support based on KNX bus. It is equipped with one relay (4 A @24 V AC/DC) and one binary input to be used for connecting external conventional push-button for switch, dimmer and shutter functionalities, or for example for connecting window contact or similar.
The output can be programmed as “Linked to access control”, receiving in this case switching commands from the device itself (according to card insertion/removal); or being a standard KNX Switch actuator output, able to be controlled by every KNX-standard devices. The bicolor (red-green) LED placed on the front of the device allow you to monitor device operation and can be also switched ON/OFF in the proper color according to KNX.
The transponder reader requires a 12...24 V AC/DC external power supply to ensure its operation even with bus voltage failure.
The transponder reader is available for ABB Millenium wiring accessories range.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	TH/U 1.1	2CSY265232R2021		0.018	1

[1] The individual design can be selected via the website:
URL: https://tacteo-configurator.eu.mybuildings.abb.com/



TR/U 1.1.CH

Transponder Reader, Chiara 2 modules

The “transponder reader” is a flush-mounting device, designed to realize access control systems with a communication support based on KNX bus. It is equipped with one relay (4 A @24 V AC/DC) and one input to be used for connecting external conventional card-holder (e.g. Chiara wiring accessories card-holder).

The output can be programmed in three different ways: “Linked to access control”, receiving in this case switching commands from the device itself (according to transponder card validation); being a standard KNX Switch actuator output, able to be controlled by every KNX-standard devices; “linked to card-holder”, that means that the relay is switched according to closing/opening internal input contact available on transponder reader.

The bicolor (red-green) LED placed on the front of the device allow you to monitor device operation and can be also switched ON/OFF in the proper color according to KNX telegram (for example for DND/MUR purposes).

The transponder reader requires a 12...24 V AC/DC external power supply to ensure its operation even with bus voltage failure.

The transponder reader is available for ABB Chiara wiring accessories range.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	TR/U 1.1.CH	2CSK289601R1902			1



TH/U 1.1.CH

Transponder Holder, Chiara 2 modules

The “transponder holder” is a flush-mounting device for British Standard wall boxes, designed to realize access control systems with a communication support based on KNX bus. It is equipped with one relay (4 A @24 V AC/DC) and one binary input to be used for connecting external conventional push-button for switch, dimmer and shutter functionalities, or for example for connecting window contact or similar.

The output can be programmed as “Linked to access control”, receiving in this case switching commands from the device itself (according to card insertion/removal); or being a standard KNX Switch actuator output, able to be controlled by every KNX-standard devices. The bicolor (red-green) LED placed on the front of the device allow you to monitor device operation and can be also switched ON/OFF in the proper color according to KNX.

The transponder reader requires a 12...24 V AC/DC external power supply to ensure its operation even with bus voltage failure.

The transponder reader is available for ABB Chiara wiring accessories range.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	TH/U 1.1.CH	2CSK202481R1922			1

ABB i-bus® KNX

Guest Room Management



TS/T 1
TS/T 1.1

Set of Transponder Cards for Millenium, Chiara 2 modules and tacteo design programs

The transponder card uses passive transponder technology operating in radio frequency (MIFARE technology), without the need for contact between the reader and the card itself. The transponder card is read by swiping it in front of the reader at a maximum distance of 20 mm (can be reduced according to installation environment).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
10 transponder cards	–	TS/T 1	2CSY259412R2041		0.02	1
1000 transponder cards	–	TS/T 1.1	2CSY232175R2041		1	1



LT/U 1.1.MC
LT/U 1.1.MS

Transponder Reader, Mylos

The transponder reader is used for access control in the hotel, residential and commercial sectors (office buildings, business centers, laboratories, etc.). The device is equipped with two bistable relays (8 A, 250 V AC), one of which can be assigned to control electronic lock, and three voltage-free, non-optically insulated inputs; the 5-V DC scanning voltage is available on the COM terminal.
The transponder reader requires a 10...32 V DC/12...24 V AC external power supply to ensure its operation even with bus voltage failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	LT/U 1.1.MC	2CSYK5000C		0.05	1
black	–	LT/U 1.1.MS	2CSYK5000S		0.05	1



PTI/U 1.1.MC

Transponder Holder, Mylos

The transponder holder is equipped with a slot into which the transponder card is inserted. In a hotel application, this allows occupancy recognition and notification at the supervisory level (e.g. on the front desk computer).
Moreover, room status information can be managed by using special cards (minibar status, maintenance status, usability).
The device is equipped with 2 bistable relays (8 A, 250 V AC) and 3 voltage-free, non-optically insulated inputs; the 5-V DC scanning voltage is available on the COM terminal.
The transponder pocket requires a 10...32 V DC/12...24 V AC external power supply to ensure its operation even with bus voltage failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	PTI/U 1.1.MC	2CSYK5200C		0.05	1
black	–	PTI/U 1.1.MS	2CSYK5200S		0.05	1



PRT/U 1.1.MC

Transponder Programming Device, Mylos

The devices allows the programming of transponder cards.
The device is equipped with 2 bistable relays (8 A, 250 V AC) and 3 voltage-free non-optically insulated inputs; 5 V DC scanning voltage is available on the COM terminal.
The transponder programmer requires a 10...32 V DC/12...24 V AC external power supply to ensure its operation even with bus voltage failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	PRT/U 1.1.MC	2CSYK5300C		0.05	1
black	–	PRT/U 1.1.MS	2CSYK5300S		0.05	1



CH/T 2
CH/T 2.1

Set of 5 Transponder Cards for Chiara and Mylos design programs

The transponder card uses passive transponder technology operating in radio frequency, without the need for contact between the reader and the card itself. The transponder card is read by swiping it in front of the reader at a maximum distance of 20 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
5 transponder cards	–	CH/T 2	2CSKK5400C		0.005	1
1000 transponder cards	–	CH/T 2.1	2CSY289611R1941		1	1



LT/U 1.1.CH

Transponder Reader, Chiara

The transponder reader is used for access control in the hotel, residential and commercial sectors (office buildings, business centers, laboratories, etc.). The device is equipped with two bistable relays (8 A, 250 V AC), one of which can be assigned to control electronic lock, and three voltage-free, non-optically insulated inputs; the 5-V DC scanning voltage is available on the COM terminal.
The transponder reader requires a 10...32 V DC/12...24 V AC external power supply to ensure its operation even with bus voltage failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	LT/U 1.1.CH	2CSKK5000C		0.05	1

ABB i-bus® KNX

Guest Room Management



PTI/U 1.1.CH

Transponder Holder, Chiara

The transponder holder is equipped with a slot into which the transponder card is inserted. In a hotel application, this allows occupancy recognition and notification at the supervisory level (e.g. on the front desk computer).
Moreover, room status information can be managed by using special cards (minibar status, maintenance status, usability).
The device is equipped with 2 bistable relays (8 A, 250 V AC) and 3 voltage-free, non-optically insulated inputs; the 5-V DC scanning voltage is available on the COM terminal.
The transponder pocket requires a 10...32 V DC/12...24 V AC external power supply to ensure its operation even with bus voltage failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	PTI/U 1.1.CH	2CSKK5200C		0.05	1



PRT/U 1.1.CH

Transponder Programming Device, Chiara

The devices allows the programming of transponder cards.
The device is equipped with 2 bistable relays (8 A, 250 V AC) and 3 voltage-free non-optically insulated inputs; 5 V DC scanning voltage is available on the COM terminal.
The transponder programmer requires a 10...32 V DC/12...24 V AC external power supply to ensure its operation even with bus voltage failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	PRT/U 1.1.CH	2CSKK5300C		0.05	1



SW MiniMAC 4.1

MiniMAC software

The management and configuration software ensures bidirectional communication with the access control system devices, allowing the system's configuration during its installation and its overall management and supervision.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SW MiniMAC 4.1	2CSY258202R2051		0.005	1



RoomGuard software

RoomGuard software **NEW**

RoomGuard software for configuration and supervision of ABB Access Control range; Tacteo, Millenium, Zenit, Chiara, and Mylos.
RoomGuard is a web-based scalable solution (licensing model based on number of rooms) accessible by any browser providing greater accessibility for hotel and maintenance staff. Main features and functionality include: Access control (management of keys, groups, time bands and staff cards, definition of access to common areas, and more), room state monitoring, guest check in/check out, front desk room load monitoring, management of guest and employee databases, Occupancy and access records and statistics, front desk management of room climate, and maintenance and diagnostics. RoomGuard features an intuitive and easy to use interface, with straightforward installation and configuration, seamless integration with building automation and third-party software integration.
RoomGuard software replaces MiniMAC software.
Available December 2022

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
RoomGuard software, 10 readers/rooms	–	RoomGuard-10	2CSY247450R0010		–	1
RoomGuard software, 20 readers/rooms	–	RoomGuard-20	2CSY244490R0020		–	1
RoomGuard software, 50 readers/rooms	–	RoomGuard-50	2CSY249580R0050		–	1
RoomGuard software, 100 readers/rooms	–	RoomGuard-100	2CSY242150R0100		–	1
RoomGuard software, 200 readers/rooms	–	RoomGuard-200	2CSY247240R0200		–	1
RoomGuard software, PMS interface	–	RoomGuard-PMS	2CSY244280R0999		–	1

ABB i-bus® KNX

User Operation – Design Ranges –
Unique diversity of the range

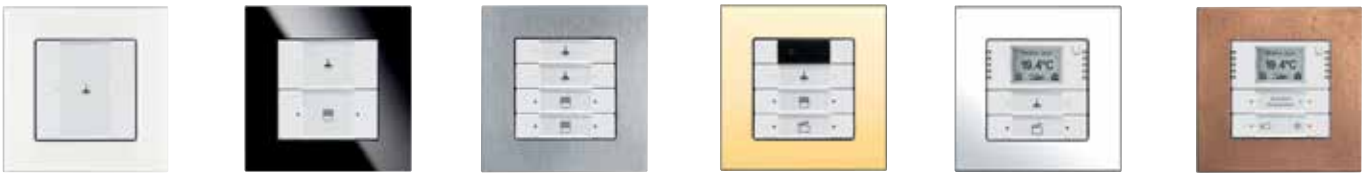
01



02



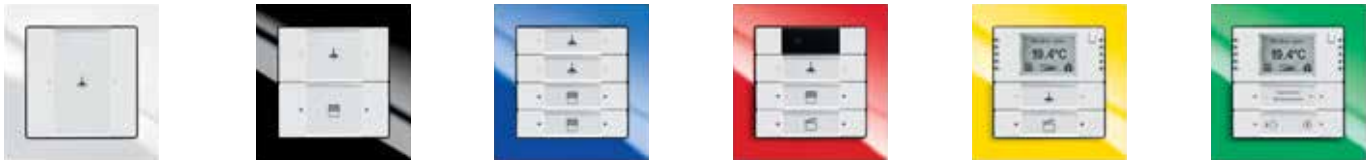
03



04



05



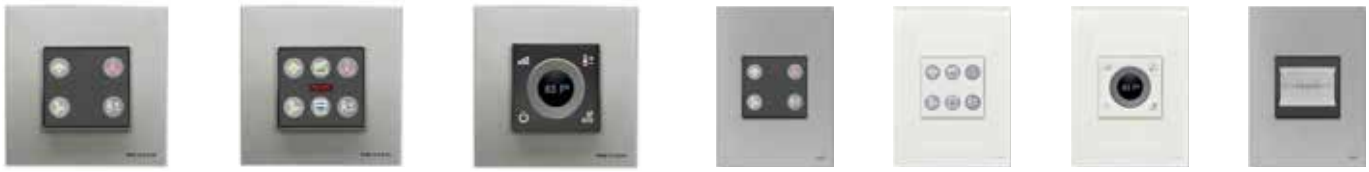
06



07



08



09



10



11



01 tacteo
02 ABB Tenton®
03 carat®
04 pure stainless steel
05 Busch-axcent®
06 future® linear
07 Millenium*
08 Zenit for VDE/NEMA markets
09 Busch-triton®
10 Busch-priOn®
11 Bus Coupling Unit –
for conventional Busch-Jaeger series**

Further information regarding the ABB switch ranges are available on https://new.abb.com/low-voltage/products/residential-products/switch-ranges

* Millenium and Zenit series are only available in selected markets.

** Busch-Jaeger switch ranges only available for selected markets. For further information please contact your local ABB office.

ABB i-bus® KNX

User Operation – Design Ranges – Functional Overview

Program	Busch-priOn® suitable for KNX bus coupler 6120/12-101 or 6120/13 (depending on the specific combination)		
			
	6340-xx-101 1/2 gang	6341-xx-101 rotary control element	6342-xx-101 3/6 gang
KNX function			
Switching, rocker switch total	■	–	■
Switching, rocker switch left/right	■	■	■
Dimming, rocker switch total	■	–	■
Dimming, rocker switch left/right	■	–	■
Blind, rocker switch total	■	–	■
Blind, rocker switch total left/right	■	■	■
Short-long operation, rocker switch left/right	■	–	■
Value sender, rocker switch total	■	–	■
Value sender, rocker switch left/right	■	–	■
Value dimming sensor, rocker switch total	■	■	■
Red/green LED status illumination (red/green/off)	–	–	–
RGB LED function illumination + status illumination	1 LED per rocker switch	1 LED per button	1 LED per rocker switch
Setting the RTC operating mode	■	–	■
Value sender, 2 objects, rocker switch left/right	■	–	■
Light scene extension unit with light scene memory function	■	–	■
Level switch, rocker switch total	■	–	■
Level switch, rocker switch total left/right	■	–	■
Multiple operation, rocker switch left/right	■	–	■
IR remote control channels (up to 13 channels)	–	–	–
Light scene unit (8 scenes for up to 8 actuators)	–	–	–
Light scene unit (10 scenes for up to 10 actuators)	–	–	–
Programmable shift key	–	–	–
Proximity function	–	–	–
Room temperature controller only			
Temperature reading	–	–	–
RTC settings	–	–	–
Illuminated display	–	–	–
Fan coil operation for heating and cooling	–	–	–
Media box/CD/DVD/radio	–	–	–
Short-time timer	–	–	–
Weekly timer	–	–	–
Alarm clock	–	–	–
Messages	–	–	–
Screen saver	–	–	–
Display text/value	–	–	–
Device lock	–	–	–
Logic function (including light scenes)	■	■	■
Busch-Watchdog 4 channels	–	–	–

■ = Function is supported

– = Function is not supported

Program		
		
	6345-xx-101	6351-825-101 end strip top with information display, room temperature controller, IR receiver and proximity sensor + 6342-xx-101 3/6 gang
KNX function		
Switching, rocker switch total	–	■
Switching, rocker switch left/right	–	■
Dimming, rocker switch total	–	■
Dimming, rocker switch left/right	–	■
Blind, rocker switch total	–	■
Blind, rocker switch total left/right	–	■
Short-long operation, rocker switch left/right	–	■
Value sender, rocker switch total	–	■
Value sender, rocker switch left/right	–	■
Value dimming sensor, rocker switch total	–	■
Red/green LED status illumination (red/green/off)	–	–
RGB LED function illumination + status illumination	–	1 LED per rocker switch
Setting the RTC operating mode	–	■
Value sender, 2 objects, rocker switch left/right	–	■
Light scene extension unit with light scene memory function	–	■
Level switch, rocker switch total	–	■
Level switch, rocker switch total left/right	–	■
Multiple operation, rocker switch left/right	–	■
IR remote control channels (up to 13 channels)	–	■
Light scene unit (8 scenes for up to 8 actuators)	–	–
Light scene unit (10 scenes for up to 10 actuators)	–	–
Programmable shift key	–	–
Proximity function	–	■
Room temperature controller only		
Temperature reading	–	–
RTC settings	–	■
Illuminated display	–	■
Fan coil operation for heating and cooling	–	■
Media box/CD/DVD/radio	–	–
Short-time timer	–	–
Weekly timer	–	–
Alarm clock	–	–
Messages	–	–
Screen saver	–	–
Display text/value	–	■
Device lock	–	–
Logic function (including light scenes)	■	■
Busch-Watchdog 4 channels	■	–

—

■ = Function is supported

– = Function is not supported

ABB i-bus® KNX

User Operation – Design Ranges – Functional Overview

Program	Busch-priOn® suitable for KNX bus coupler 6120/12-101 or 6120/13 (depending on the specific combination)	
	[redacted]	[redacted]
	6350-825-101 end strip top with IR receiver and proximity sensor	6352-xx-101 end strip bottom with temperature sensor
KNX function		
Switching, rocker switch total	–	–
Switching, rocker switch left/right	–	–
Dimming, rocker switch total	–	–
Dimming, rocker switch left/right	–	–
Blind, rocker switch total	–	–
Blind, rocker switch total left/right	–	–
Short-long operation, rocker switch left/right	–	–
Value sender, rocker switch total	–	–
Value sender, rocker switch left/right	–	–
Value dimming sensor, rocker switch total	–	–
Red/green LED status illumination (red/green/off)	–	–
RGB LED function illumination + status illumination	–	–
Setting the RTC operating mode	–	–
Value sender, 2 objects, rocker switch left/right	–	–
Light scene extension unit with light scene memory function	–	–
Level switch, rocker switch total	–	–
Level switch, rocker switch total left/right	–	–
Multiple operation, rocker switch left/right	–	–
IR remote control channels (up to 13 channels)	■	–
Light scene unit (8 scenes for up to 8 actuators)	–	–
Light scene unit (10 scenes for up to 10 actuators)	–	–
Programmable shift key	–	–
Proximity function	■	–
Room temperature controller only		
Temperature reading	–	■
RTC settings	–	–
Illuminated display	–	–
Fan coil operation for heating and cooling	–	–
Media box/CD/DVD/radio	–	–
Short-time timer	–	–
Weekly timer	–	–
Alarm clock	–	–
Messages	–	–
Screen saver	–	–
Display text/value	–	–
Device lock	–	–
Logic function (including light scenes)	–	–
Busch-Watchdog 4 channels	–	–

■ = Function is supported

– = Function is not supported

Program	**Busch-triton® (next generation) Monoblock**	
		
	6320/10 1/2 gang 6320/30 3/6 gang 6320/50 5/10 gang	6321/38 3/6 gang with RTC 6321/58 5/10 gang with RTC
KNX function		
Switching, rocker switch total	■	■
Switching, rocker switch left/right	■	■
Dimming, rocker switch total	■	■
Dimming, rocker switch left/right	■	■
Blind, rocker switch total	■	■
Blind, rocker switch total left/right	■	■
Short-long operation, rocker switch left/right	■	■
Value sender, rocker switch total	■	■
Value sender, rocker switch left/right	■	■
Value dimming sensor, rocker switch total	■	■
Red/green LED status illumination (red/green/off)	1 LED per rocker switch	1 LED per rocker switch
RGB LED function illumination + status illumination	–	–
Setting the RTC operating mode	■	■
Value sender, 2 objects, rocker switch left/right	■	■
Light scene extension unit with light scene memory function	■	■
Level switch, rocker switch total	■	■
Level switch, rocker switch total left/right	■	■
Multiple operation, rocker switch left/right	–	–
IR remote control channels (up to 13 channels)	■	■
Light scene unit (8 scenes for up to 8 actuators)	■	■
Light scene unit (10 scenes for up to 10 actuators)	–	–
Programmable shift key	■	■
Proximity function	–	–
Room temperature controller only		
Temperature reading	–	■
RTC settings	–	■
Illuminated display	–	■
Fan coil operation for heating and cooling	–	■
Media box/CD/DVD/radio	–	–
Short-time timer	–	–
Weekly timer	–	–
Alarm clock	–	–
Messages	–	–
Screen saver	–	–
Display text/value	–	–
Device lock	–	–
Logic function (including light scenes)	–	–
Busch-Watchdog 4 channels	–	–

—

■ = Function is supported

– = Function is not supported

ABB i-bus® KNX

User Operation – Design Ranges – Functional Overview

Program	Millenium		
			
	6125/20-500 1/2 gang	6126/20-500 2/4 gang	6129/20-500 3/6 gang
KNX function			
Switching, button pair	■	■	■
Switching, button upper/lower	■	■	■
Dimming, button pair	■	■	■
Dimming, button upper/lower	■	■	■
Blind, button pair	■	■	■
Blind, button upper/lower	■	■	■
Short-long operation, button upper/lower	■	■	■
Value transmitter, button pair	■	■	■
Value transmitter, button upper/lower	■	■	■
Value dimming sensor, button pair	■	■	■
Value dimming sensor, upper/lower	■	■	■
RGB LED function illumination + status illumination	■	■	■
Setting the RTC operating mode	■	■	■
Value transmitter, 2 objects, button upper/lower	■	■	■
Light scene extension unit with light scene memory function	■	■	■
Step switch, button pair	■	■	■
Step switch, button upper/lower	■	■	■
Multiple operation, button upper/lower	■	■	■
IR remote control channels (up to 5 channels)	–	–	–
Room temperature controller only			
Temperature reading	–	–	–
RTC settings	–	–	–
Illuminated display	–	–	–
Fan coil operation for heating and cooling	–	–	–
10 logic channels (incl. light scene, actuator, sequence actuator, logic gates, etc.)	■	■	■
Busch-Watchdog 4 channels	–	–	–

■ = Function is supported

– = Function is not supported

Program	**Millenium**		
			
	6129/21-500 3/6 gang with IR	6122/20-500	6124/20-500
KNX function			
Switching, button pair	■	–	–
Switching, button upper/lower	■	–	–
Dimming, button pair	■	–	–
Dimming, button upper/lower	■	–	–
Blind, button pair	■	–	–
Blind, button upper/lower	■	–	–
Short-long operation, button upper/lower	■	–	–
Value transmitter, button pair	■	–	–
Value transmitter, button upper/lower	■	–	–
Value dimming sensor, button pair	■	–	–
Value dimming sensor, upper/lower	■	–	–
RGB LED function illumination + status illumination	■	–	–
Setting the RTC operating mode	■	–	–
Value transmitter, 2 objects, button upper/lower	■	–	–
Light scene extension unit with light scene memory function	■	–	–
Step switch, button pair	■	–	–
Step switch, button upper/lower	■	–	–
Multiple operation, button upper/lower	■	–	–
IR remote control channels (up to 5 channels)	■	–	–
Room temperature controller only			
Temperature reading	–	–	■
RTC settings	–	–	■
Illuminated display	–	–	■
Fan coil operation for heating and cooling	–	–	■
10 logic channels (incl. light scene, actuator, sequence actuator, logic gates, etc.)	■	–	■
Busch-Watchdog 4 channels	–	■	–

—

■ = Function is supported

– = Function is not supported

ABB i-bus® KNX

User Operation – Design Ranges – Functional Overview

Program	Zenit		
			
	6125/98-509 1/2 gang	6126/98-509 2/4 gang	6129/98-509 3/6 gang
KNX function			
Switching, button pair	■	■	■
Switching, button upper/lower	■	■	■
Dimming, button pair	■	■	■
Dimming, button upper/lower	■	■	■
Blind, button pair	■	■	■
Blind, button upper/lower	■	■	■
Short-long operation, button upper/lower	■	■	■
Value transmitter, button pair	■	■	■
Value transmitter, button upper/lower	■	■	■
Value dimming sensor, button pair	■	■	■
Value dimming sensor, upper/lower	■	■	■
RGB LED function illumination + status illumination	■	■	■
Setting the RTC operating mode	■	■	■
Value transmitter, 2 objects, button upper/lower	■	■	■
Light scene extension unit with light scene memory function	■	■	■
Step switch, button pair	■	■	■
Step switch, button upper/lower	■	■	■
Multiple operation, button upper/lower	■	■	■
IR remote control channels (up to 5 channels)	–	–	–
Room temperature controller only			
Temperature reading	–	–	–
RTC settings	–	–	–
Illuminated display	–	–	–
Fan coil operation for heating and cooling	–	–	–
10 logic channels (incl. light scene, actuator, sequence actuator, logic gates, etc.)	■	■	■
Busch-Watchdog 4 channels	–	–	–

■ = Function is supported

– = Function is not supported

Program	**Zenit**		
			
	6129/98-509 3/6 gang with IR	6122/98-509	6124/98-509
KNX function			
Switching, button pair	■	–	–
Switching, button upper/lower	■	–	–
Dimming, button pair	■	–	–
Dimming, button upper/lower	■	–	–
Blind, button pair	■	–	–
Blind, button upper/lower	■	–	–
Short-long operation, button upper/lower	■	–	–
Value transmitter, button pair	■	–	–
Value transmitter, button upper/lower	■	–	–
Value dimming sensor, button pair	■	–	–
Value dimming sensor, upper/lower	■	–	–
RGB LED function illumination + status illumination	■	–	–
Setting the RTC operating mode	■	–	–
Value transmitter, 2 objects, button upper/lower	■	–	–
Light scene extension unit with light scene memory function	■	–	–
Step switch, button pair	■	–	–
Step switch, button upper/lower	■	–	–
Multiple operation, button upper/lower	■	–	–
IR remote control channels (up to 5 channels)	■	–	–
Room temperature controller only			
Temperature reading	–	–	■
RTC settings	–	–	■
Illuminated display	–	–	■
Fan coil operation for heating and cooling	–	–	■
10 logic channels (incl. light scene, actuator, sequence actuator, logic gates, etc.)	■	–	■
Busch-Watchdog 4 channels	–	■	–

—

■ = Function is supported

– = Function is not supported

ABB i-bus® KNX

User Operation – Design Ranges – Functional Overview

Program	Multifunction control elements, suitable for KNX bus coupler 6120/12-101 and 6120/13			
				
	6125/02 1/2 gang 6126/02 2/4 gang 6127/02 4/8 gang	6129/01 3/6 gang with IR	6128/28 2/4 gang with RTC	6122/01 standard
KNX function				
Switching, rocker switch total	■	■	■	–
Switching, rocker switch left/right	■	■	■	–
Dimming, rocker switch total	■	■	■	–
Dimming, rocker switch left/right	■	■	■	–
Blind, rocker switch total	■	■	■	–
Venetian blind, rocker switch total left/right	■	■	■	–
Short-long operation, rocker switch left/right	■	■	■	–
Value sender, rocker switch total	■	■	■	–
Value sender, rocker switch left/right	■	■	■	–
Value dimming sensor, rocker switch total	■	■	■	–
Red/green LED status illumination (red/green/off)	–	–	–	–
RGB LED function illumination + status illumination	Two LEDs per rocker switch	Two LEDs per rocker switch	Two LEDs per rocker switch	–
Setting the RTC operating mode	■	■	■	–
Value sender, 2 objects, rocker switch left/right	■	■	■	–
Light scene extension unit with light scene memory function	■	■	■	–
Level switch, rocker switch total	■	■	■	–
Level switch, rocker switch total left/right	■	■	■	–
Multiple operation, rocker switch left/right	■	■	■	–
IR remote control channels (up to 5 channels)	–	■	–	–
Room temperature controller only				
Temperature reading	–	–	■	–
RTC settings	–	–	■	–
Illuminated display	–	–	■	–
Fan coil operation for heating and cooling	–	–	■	–
Logic function (including light scenes)	■	■	■	■
Busch-Watchdog 4 channels	–	–	–	■
ABB				
basic55®	–	–	–	–
future® linear	■	■	■	■
alpha exclusive/nea	–	–	–	–
Busch-axcent®	■	■	■	■
solo®	■	■	■	■
pure stainless steel	■	■	■	■
carat®	■	■	■	■
ocean®	–	–	–	–
All Weather 44	–	–	–	–

■ = Function is supported

– = Function is not supported

Program	FM Watchdog with integrated bus coupler	Standard control elements, bus coupler included with package	FM push-button coupling unit with integrated bus coupler	
				
	6122/10	6125/01 1 gang 6126/01 2 gang 6127/01 4 gang	6108/06 1/2 gang	6108/07 2/4 gang
KNX function				
Switching, rocker switch total	–	■	■	■
Switching, rocker switch left/right	–	–	■	■
Dimming, rocker switch total	–	■	■	■
Dimming, rocker switch left/right	–	–	■	■
Blind, rocker switch total	–	■	■	■
Venetian blind, rocker switch total left/right	–	–	■	■
Short-long operation, rocker switch left/right	–	–	■	■
Value sender, rocker switch total	–	■	■	■
Value sender, rocker switch left/right	–	–	■	■
Value dimming sensor, rocker switch total	–	–	■	■
Red/green LED status illumination (red/green/off)	–	Two LEDs per rocker switch	–	–
RGB LED function illumination + status illumination	–	–	One LED per rocker switch	One LED per rocker switch
Setting the RTC operating mode	–	–	■	■
Value sender, 2 objects, rocker switch left/right	–	■	■	■
Light scene extension unit with light scene memory function	–	■	■	■
Level switch, rocker switch total	–	–	■	■
Level switch, rocker switch total left/right	–	–	■	■
Multiple operation, rocker switch left/right	–	–	–	–
IR remote control channels (up to 5 channels)	–	–	–	–
Room temperature controller only				
Temperature reading	–	–	■	■
RTC settings	–	–	–	–
Illuminated display	–	–	–	–
Fan coil operation for heating and cooling	–	–	–	–
Logic function (including light scenes)	■	–	–	–
Busch-Watchdog 4 channels	■	–	–	–
ABB				
basic55®	–	–	■	■
future® linear	■	■	■	■
alpha exclusive/nea	–	–	–	–
Busch-axcent®	■	■	■	■
solo®	■	■	■	■
pure stainless steel	■	■	■	■
carat®	■	■	■	■
ocean®	–	–	–	–
All Weather 44	–	–	–	–

■ = Function is supported

– = Function is not supported

ABB i-bus® KNX

User Operation – Design Ranges – Functional Overview

Program	FM push-button coupling unit with integrated bus coupler		
			
	6108/60 6-fold KNX sensor	6108/06-AP 1/2 gang	6108/07-AP 2/4 gang
KNX function			
Switching, rocker switch total	■	■	■
Switching, rocker switch left/right	–	■	■
Dimming, rocker switch total	■	■	■
Dimming, rocker switch left/right	–	■	■
Blind, rocker switch total	■	■	■
Venetian blind, rocker switch total left/right	–	■	■
Short-long operation, rocker switch left/right	–	■	■
Value sender, rocker switch total	■	■	■
Value sender, rocker switch left/right	–	■	■
Value dimming sensor, rocker switch total	■	■	■
Red/green LED status illumination (red/green/off)		1 LED	–
RGB LED function illumination + status illumination	–	–	–
Setting the RTC operating mode	–	■	■
Value sender, 2 objects, rocker switch left/right	–	■	■
Light scene extension unit with light scene memory function	■	■	■
Level switch, rocker switch total	■	■	■
Level switch, rocker switch total left/right	–	■	■
Multiple operation, rocker switch left/right	–	–	–
IR remote control channels (up to 5 channels)	–	–	–
Room temperature controller only			
Temperature reading	■	–	–
RTC settings	■ (only as slave)	–	–
Illuminated display	–	–	–
Fan coil operation for heating and cooling	■ (only as slave)	–	–
Logic function (including light scenes)	–	–	–
Busch-Watchdog 4 channels	–	–	–
ABB			
basic55®	■	■	■
future® linear	■	■	■
alpha exclusive/nea	■	■	■
Busch-axcent®	■	■	■
solo®	■	■	■
pure stainless steel	■	■	■
carat®	■	■	■
ocean®	–	■	■
All Weather 44	–	■	■

■ = Function is supported

– = Function is not supported

Program	**FM room temperature controller**				
					
	6108/18	6109/18	6109/28	6109/08	6109/05
Control element					
Standard function	–	–	–	–	–
Additional function	–	–	–	–	–
Indication					
Display	■	■	■	–	–
Actual temperature display	■	■	■	–	–
Status display via text and/or ICON	–	■	■	–	–
RTC					
Manual operation	■	■	■	–	–
Heating and/or cooling with/without additional stage	■	■	■	■	■
Fan coil	■	■	■	■	■
Master/slave	■	■	■	master only	master only
Basic load	■	■	■	■	■
Internal and/or external actual temperature sensor	■	■	■	■	external only
Internal actual temperature sensor	■	■	■	■	■
Air quality					
CO_2	–	–	■	–	–
Humidity	–	–	■	–	–
Air pressure	–	–	■	–	–
Universal input/binary input					
Switching/alarm	–	■	■	■	■
Dimming	–	■	■	■	■
Blind	–	■	■	■	■
Value	–	■	■	■	■
Scene	–	■	■	■	■
Switching sequences	–	■	■	■	■
Multi	–	■	■	■	■
Pulse counter	–	■	■	■	■
Universal analogue input e.g. external sensors					
0–10 V (external)	–	■	■	■	■
1–10 V (external)	–	■	■	■	■
Upper/lower threshold value	–	■	■	■	■
Universal input of external temperature sensor (PT1000 or 6226/T)					
Actual temperature sensor	–	■	■	■	■
Temperature limiter	–	■	■	■	■
ABB					
basic55®	■	■	■	■	–
future® linear	■	■	■	■	–
alpha exclusive/nea	–	■	■	■	–
Busch-axcent®	■	■	■	■	–
solo®	■	■	■	■	–
pure stainless steel	■	■	■	■	–
carat®	■	■	■	■	–
ocean®	–	–	–	–	–
All Weather 44	–	–	–	–	–

—

■ = Function is supported

– = Function is not supported

ABB i-bus® KNX

User Operation – Design Ranges – Functional Overview

Program		ABB tacteo®			
					
Square (vert.)	(86 mm x 86 mm)	TB/U1.1.1-CG	TB/U2.4.1-CG	TB/U4.4.1-CG	TB/U6.4.1-CG
Square (horiz.)	(86 mm x 86 mm)		TB/U2.5.1-CG	TB/U4.5.1-CG	TB/U6.5.1-CG
Vertical	(86 mm x 115 mm)	TB/U1.2.1-CG	TB/U2.7.1-CG	TB/U4.7.1-CG	TB/U6.7.1-CG
Horizontal	(115 mm x 86 mm)	TB/U1.3.1-CG	TB/U2.8.1-CG	TB/U4.8.1-CG	TB/U6.8.1-CG
Premium customization		TB/U1-CG	TB/U2-CG	TB/U4-CG	TB/U6-CG
Control element					
Standard function		■	■	■	■
Additional function		■	■	■	■
Indication					
Display		–	–	–	–
Actual temperature display		–	–	–	–
Status display via text and/or ICON		–	–	–	–
RTC					
Manual operation		–	–	–	–
Heating and/or cooling with/ without additional stage		–	–	–	–
Fan coil		–	–	–	–
Master/slave		–	–	–	–
Basic load		–	–	–	–
Internal and/or external actual temperature sensor		–	–	–	–
Internal actual temperature sensor		■	■	■	■
Installation					
VDE		■	■	■	■
BS		■	■	■	■
IT	(only as 115 mm x 86 mm)	■	■	■	■
NEMA	(only as 86 mm x 115 mm)	■	■	■	■

■ = Function is supported

– = Function is not supported

Program		**ABB tacteo®**		
				
Square (vert.)	(86 mm x 86 mm)	TR/U.1.1-CG	TBW/U.1.1-CG	TA/U3.1.1-CG
Square (horiz.)	(86 mm x 86 mm)			
Vertical	(86 mm x 115 mm)	TR/U.2.1-CG	TBW/U.2.1-CG	TA/U3.2.1-CG
Horizontal	(115 mm x 86 mm)	TR/U.3.1-CG	TBW/U.3.1-CG	TA/U3.3.1-CG
Premium customization		TR/U-CG	TBW/U-CG	TA/U3-CG
Control element				
Standard function		■	■	■
Additional function		■	■	–
Indication				
Display		■	–	–
Actual temperature display		■	–	–
Status display via text and/or ICON		■	–	–
RTC				
Manual operation		■	–	–
Heating and/or cooling with/ without additional stage		■	–	–
Fan coil		■	–	–
Master/slave		■	–	–
Basic load		■	–	–
Internal and/or external actual temperature sensor		■	–	–
Internal actual temperature sensor		■	■	■
Installation				
VDE		■	■	■
BS		■	■	■
IT	(only as 115 mm x 86 mm)	■	■	■
NEMA	(only as 86 mm x 115 mm)	■	■	■

—

■ = Function is supported

– = Function is not supported

ABB i-bus® KNX

User Operation – Design Ranges – Functional Overview

Program		ABB tacteo®		
				
Vertical	(86 mm x 157 mm)	TB/U12.7.1-CG	TBR/U4.7.1-CG	TSN/U.2.1-CG
Horizontal	(157 mm x 86 mm)	TB/U12.8.1-CG	TBR/U4.8.1-CG	
Premium customization		TB/U12-CG	TBR/U4-CG	TSN/U-CG
Control element				
Standard function		■	■	■
Additional function		■	■	–
Indication				
Display		–	■	–
Actual temperature display		–	■	–
Status display via text and/or ICON		–	■	–
RTC				
Manual operation		–	■	–
Heating and/or cooling with/ without additional stage		–	■	–
Fan coil		–	■	–
Master/slave		–	■	–
Basic load		–	■	–
Internal and/or external actual temperature sensor		–	■	–
Internal actual temperature sensor		■	■	■
Installation				
VDE		■	■	■
BS		■	■	■
IT	(only as 157 mm x 86 mm)	–	–	■
NEMA	(only as 86 mm x 157 mm)	■	■	■

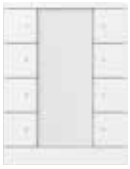
Program	**ClimaECO**			
	Control Elements	**Operating function with RTC extension unit**	**Room temp. controller with oper. Function**	**RTC w. CO_2/ humidety sens. a. oper. Function**
				
	SB/U8.0.1-xxx SB/U12.0.1-xxx	SBS/U6.0.1-xxx SBS/U10.0.1-xxx	SBR/U6.0.1-xxx SBR/U10.0.1-xxx	SBC/U6.0.1-xxx SBC/U10.0.1-xxx
KNX function Switching, rocker switch total	■	■	■	■
Switching, rocker switch left/right	■	■	■	■
Dimming, rocker switch total	■	■	■	■
Dimming, rocker switch left/right	■	■	■	■
Blind switch rocker tota	■	■	■	■
Blind switch rocker total left/right	■	■	■	■
Short-long operation, switch rocker left/right	■	■	■	■
Value sender rocker switch total	■	■	■	■
Value sender switch rocker left/right	■	■	■	■
Value dimming sensor, switch rocker total	■	■	■	■
Red/green LED status illumination (red/green/off) 1 LED per switch rocker 1 LED per switch rocker	■	■	■	■
RGB LED function illumination + status illumination	■	■	■	■
1 LED per switch rocker	■	■	■	■
Setting the RTC operating mode	■	■	■	■
Value sender, 2 objects, rocker switch left/right	■	■	■	■
Light scene extension unit with light scene memory function	■	■	■	■
Level switch, switch rocker total	■	■	■	■
Level switch, switch rocker total left/right	■	■	■	■
Multiple operation, rocker switch left/right	■	■	■	■
IR remote control channels (up to 13 channels)				
Light scene unit (8 scenes for up to 8 actuators)	■	■	■	■
Light scene unit (10 scenes for up to 10 actuators)	■	■	■	■
Internal RTC function rocker total		■	■	■
Internal RTC function left/right		■	■	■
Programmable shift key				
Proximity function				
Room temperature controller			■	■
Temperature sensor	■	■	■	■
Master/Slave configuration			■	■
Slave configuration		■		
RTC settings			■	■
Base-load operation			■	■
Illuminated display		■	■	■
Fan Coil operation for heating and cooling		■	■	■
CO_2-Mesurement				■
Humidety-Mesurement				■
Drewpoint-management				■
Temperature				■
Device lock	■	■	■	■
Logic function (including light scenes)	■	■	■	■
Busch-Watchdog 4 channels				

ABB i-bus® KNX

User Operation – Design Ranges – Functional Overview

Program	PEONIA®					
						
	PEB/U2.0.1-xxx	PEB/U3.0.1-xxx	PEB/U5.0.1-xxx	PEBR/U2.0.1-xxx	PEBR/U3.0.1-xxx	PEBR/U5.0.1-xxx
KNX function						
Switching, rocker switch total	■	■	■	■	■	■
Switching, rocker switch left/right	■	■	■	■	■	■
Dimming, rocker switch total	■	■	■	■	■	■
Dimming, rocker switch left/right	■	■	■	■	■	■
Blind switch rocker total	■	■	■	■	■	■
Blind switch rocker total left/right	■	■	■	■	■	■
Short-long operation, switch rocker left/right	■	■	■	■	■	■
Value sender rocker switch total	■	■	■	■	■	■
Value sender rocker switch left/right	■	■	■	■	■	■
RGB LED function illumination + Status illumination	■	■	■	■	■	■
RGB LED Ambient illumination	■	■	■	■	■	■
Setting the RTC operating mode	■	■	■	■	■	■
Value sender, 2 objects, rocker switch left/right	■	■	■	■	■	■
Light scene extension units with light scene memory function	■	■	■	■	■	■
Step switch, switch rocker total	■	■	■	■	■	■
Step switch, switch rocker left/right	■	■	■	■	■	■
Multiple operation, rocker switch left/right	■	■	■	■	■	■
Proximity function	■	■	■	■	■	■
Energy saving function	■	■	■	■	■	■
Dynamic display	–	–	–	■	■	■
Room temperature controller only						
RTC Capacitive touch button	–	–	–	■	■	■
Vibration feedback	–	–	–	■	■	■
Temperature reading	–	–	–	■	■	■
Single/Master/Slave configuration	–	–	–	■	■	■
RTC setting	–	–	–	■	■	■
Base-load operation	–	–	–	■	■	■
Illumination display	–	–	–	■	■	■
Fan coil operation or heating and cooling	–	–	–	■	■	■
5 Logic channels (incl. Priority, Logic gate, Staircase lighting, Delay, Min/max value transducer, Threshold value hysteresis, Light scene actuator)	■	■	■	■	■	■

■ = Function is supported

– = Function is not supported

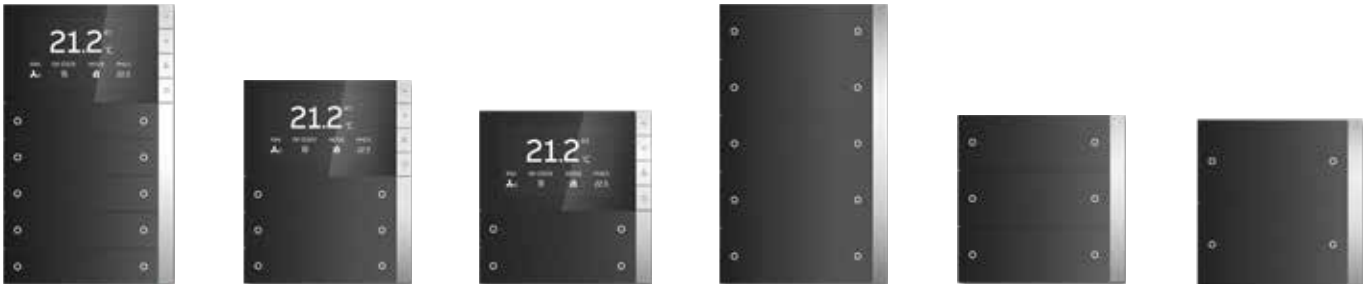
Notes

PEONIA®

All in one for smarter life

PEONIA® is a highly smart panel integrated with lighting, temperature, electric doors and windows, air conditioning, floor heating, scene and proximity sensors.
All these functions make your life smarter and easier than ever.

reddot award 2019
winner





A unique proximity sensor system that can automatically activate the background lights and scenario mode when you are close to the panel. In addition, the in-built sensor can monitor the temperature. Additional information like PM 2.5, VOC and humidity receive from the KNX bus can be displayed. This information can be displayed on the screen directly. When the air quality is bad, the sensor will open the window and air condition system automatically. This brings convenience and comfort to your daily life.

ABB i-bus® KNX

User Operation – Design Ranges – PEONIA®



PEBR/U2.0.1-201

PEONIA® control element 2/4-fold with Room Temperature Controller, FM
With integrated bus coupling unit and temperature sensor. Proximity sensor, device locking and energy saving function Switch contact left/right. Replaceable rocker without icon.
Push button function: switching/dimming/blind/value sending/step-type switch/ lightscene/ fan function.
With base-load operation.
The controller is a constant room temperature controller for ventilator convectors (fan-coil) in 2 and 4 pipe system and conventional heating and cooling systems.
The fan stage can be switched manually or automatic mode.
Delicated capactive touch RTC control button with vibration feedback, Single/Master/Slave configuration.
LCD display: Setpoint/actual temperature, Fan speed, Operating state, Operating mode.
Configurable: time, PM2.5, CO_2, Humidity, VOC, temperature, Dynamic animation for dimming, blind, scene.
Individual programmable LED per rocker. Top and bottom ambient LED strip.
LED colour: red/green/yellow/blue/red-orange/violet/white.
Temperature range (device): –5 °C to 45 °C. Dimensions (L x W): 86 mm x 86 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PEBR/U2.0.1-002	2TAZ730210R0020		0.212	1
Matt White	–	PEBR/U2.0.1-001	2TAZ730210R0010		0.212	1
Matt Black	–	PEBR/U2.0.1-201	2TAZ730210R2010		0.212	1
Matt Silver	–	PEBR/U2.0.1-131	2TAZ730210R1310		0.212	1
Matt Platinum	–	PEBR/U2.0.1-151	2TAZ730210R1510		0.212	1
Matt Champagne Gold	–	PEBR/U2.0.1-411	2TAZ730210R4110		0.212	1



PEBR/U3.0.1-201

PEONIA® control element 3/6-fold with Room Temperature Controller, FM
With integrated bus coupling unit and temperature sensor.
Proximity sensor, device locking and energy saving function.
Switch contact left/right. Replaceable rocker without icon.
Push button function: switching/dimming/blind/value sending/step-type switch/ lightscene/fan function. With base-load operation.
The controller is a constant room temperature controller for ventilator convectors (fan-coil) in 2 and 4 pipe system and conventional heating and cooling systems. The fan stage can be switched manually or automatic mode.
Delicated capactive touch RTC control button with vibration feedback, Single/Master/Slave configuration.
LCD display: Setpoint/actual temperature, Fan speed, Operating state, Operating mode.
Configurable: time, PM2.5, CO_2, Humidity, VOC, temperature, Dynamic animation for dimming, blind, scene.
Individual programmable LED per rocker. Top and bottom ambient LED strip.
LED colour: red/green/yellow/blue/red-orange/violet/white.
Temperature range (device): –5 °C to 45 °C. Dimensions (L x W): 105 mm x 86 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PEBR/U3.0.1-002	2TAZ730310R0020		0.253	1
Matt White	–	PEBR/U3.0.1-001	2TAZ730310R0010		0.253	1
Matt Black	–	PEBR/U3.0.1-201	2TAZ730310R2010		0.253	1
Matt Silver	–	PEBR/U3.0.1-131	2TAZ730310R1310		0.253	1
Matt Platinum	–	PEBR/U3.0.1-151	2TAZ730310R1510		0.253	1
Matt Champagne Gold	–	PEBR/U3.0.1-411	2TAZ730310R4110		0.253	1

ABB i-bus® KNX

User Operation – Design Ranges – PEONIA®



PEBR/U5.0.1-201

PEONIA® control element 5/10-fold with Room Temperature Controller, FM
With integrated bus coupling unit and temperature sensor. Proximity sensor, device locking and energy saving function.
Switch contact left/right. Replaceable rocker without icon.
Push button function: switching/dimming/blind/value sending/step-type switch/ lightscene/ fan function.
With base-load operation. The controller is a constant room temperature controller for ventilator convectors (fan-coil).
In 2 and 4 pipe system and conventional heating and cooling systems. The fan stage can be switched manually or automatic mode.
Delicated capactive touch RTC control button with vibration feedback, Single/Master/Slave configuration.
LCD display: Setpoint/actual temperature, Fan speed, Operating state, Operating mode.
Configurable: time, PM2.5, CO_2, Humidity, VOC, temperature, Dynamic animation for dimming, blind, scene.
Individual programmable LED per rocker. Top and bottom ambient LED strip.
LED colour: red/green/yellow/blue/red-orange/violet/white.
Temperature range (device): –5 °C to 45 °C. Dimensions (L x W): 141 mm x 86 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PEBR/U5.0.1-002	2TAZ730510R0020		0.284	1
Matt White	–	PEBR/U5.0.1-001	2TAZ730510R0010		0.284	1
Matt Black	–	PEBR/U5.0.1-201	2TAZ730510R2010		0.284	1
Matt Silver	–	PEBR/U5.0.1-131	2TAZ730510R1310		0.284	1
Matt Platinum	–	PEBR/U5.0.1-151	2TAZ730510R1510		0.284	1
Matt Champagne Gold	–	PEBR/U5.0.1-411	2TAZ730510R4110		0.284	1



PEB/U2.0.1-201

PEONIA® control element 2/4-fold, FM
With integrated bus coupling unit and temperature sensor.
Proximity sensor, device locking and energy saving function.
Switch contact left/right. Replaceable rocker without icon.
Push button function: switching/dimming/blind/value sending/step-type switch/lightscene.
Individual programmable LED per rocker. Top and bottom ambient LED strip.
LED colour: red/green/yellow/blue/red-orange/violet/white.
Dimensions (L x W): 86 mm x 86 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PEB/U2.0.1-002	2TAZ730200R0020		0.204	1
Matt White	–	PEB/U2.0.1-001	2TAZ730200R0010		0.204	1
Matt Black	–	PEB/U2.0.1-201	2TAZ730200R2010		0.204	1
Matt Silver	–	PEB/U2.0.1-131	2TAZ730200R1310		0.204	1
Matt Platinum	–	PEB/U2.0.1-151	2TAZ730200R1510		0.204	1
Matt Champagne Gold	–	PEB/U2.0.1-411	2TAZ730200R4110		0.204	1



PEB/U3.0.1-201

PEONIA® control element 3/6-fold, FM
With integrated bus coupling unit and temperature sensor.
Proximity sensor, device locking and energy saving function.
Switch contact left/right. Replaceable rocker without icon.
Push button function: switching/dimming/blind/value sending/step-type switch/lightscene.
Individual programmable LED per rocker. Top and bottom ambient LED strip.
LED colour: red/green/yellow/blue/red-orange/violet/white.
Dimensions (L x W): 86 mm x 86 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PEB/U3.0.1-002	2TAZ730300R0020		0.205	1
Matt White	–	PEB/U3.0.1-001	2TAZ730300R0010		0.205	1
Matt Black	–	PEB/U3.0.1-201	2TAZ730300R2010		0.205	1
Matt Silver	–	PEB/U3.0.1-131	2TAZ730300R1310		0.205	1
Matt Platinum	–	PEB/U3.0.1-151	2TAZ730300R1510		0.205	1
Matt Champagne Gold	–	PEB/U3.0.1-411	2TAZ730300R4110		0.205	1

ABB i-bus® KNX

User Operation – Design Ranges – PEONIA®



PEB/U5.0.1-201

PEONIA® control element 5/10-fold, FM
With integrated bus coupling unit and temperature sensor.
Proximity sensor, device locking and energy saving function.
Switch contact left/right. Replaceable rocker without icon.
Push button function: switching/dimming/blind/value sending/step-type switch/lightscene.
Individual programmable LED per rocker. Top and bottom ambient LED strip.
LED colour: red/green/yellow/blue/red-orange/violet/white.
Dimensions (L x W): 144 mm x 86 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PEB/U5.0.1-002	2TAZ730500R0020		0.275	1
Matt White	–	PEB/U5.0.1-001	2TAZ730500R0010		0.275	1
Matt Black	–	PEB/U5.0.1-201	2TAZ730500R2010		0.275	1
Matt Silver	–	PEB/U5.0.1-131	2TAZ730500R1310		0.275	1
Matt Platinum	–	PEB/U5.0.1-151	2TAZ730500R1510		0.275	1
Matt Champagne Gold	–	PEB/U5.0.1-411	2TAZ730500R4110		0.275	1



PESX/2.10.1-201

Replaceable rocker without icon for PEONIA® control element, PEB/U2.0.1-xxx
Dimensions (L x W): 43 mm x 78 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PESX/2.10.1-002	2TAZ730000R0020		0.087	1
Matt White	–	PESX/2.10.1-001	2TAZ730000R0010		0.087	1
Matt Black	–	PESX/2.10.1-201	2TAZ730000R2010		0.087	1
Matt Silver	–	PESX/2.10.1-131	2TAZ730000R1310		0.087	1
Matt Platinum	–	PESX/2.10.1-151	2TAZ730000R1510		0.087	1
Matt Champagne Gold	–	PESX/2.10.1-411	2TAZ730000R4110		0.087	1



PESB/2.10.1-201

Replaceable rocker with lighting icon for PEONIA® control element,PEB/U2.0.1-xxx
Dimensions (L x W): 43 mm x 78 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PESB/2.10.1-002	2TAZ730000R0021		0.087	1
Matt White	–	PESB/2.10.1-001	2TAZ730000R0011		0.087	1
Matt Black	–	PESB/2.10.1-201	2TAZ730000R2011		0.087	1
Matt Silver	–	PESB/2.10.1-131	2TAZ730000R1311		0.087	1
Matt Platinum	–	PESB/2.10.1-151	2TAZ730000R1511		0.087	1
Matt Champagne Gold	–	PESB/2.10.1-411	2TAZ730000R4111		0.087	1



PESD/2.10.1-201

Replaceable rocker with dimming icon for PEONIA® control element, PEB/U2.0.1-xxx
Dimensions (L x W): 43 mm x 78 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PESD/2.10.1-002	2TAZ730000R0024		0.087	1
Matt White	–	PESD/2.10.1-001	2TAZ730000R0014		0.087	1
Matt Black	–	PESD/2.10.1-201	2TAZ730000R2014		0.087	1
Matt Silver	–	PESD/2.10.1-131	2TAZ730000R1314		0.087	1
Matt Platinum	–	PESD/2.10.1-151	2TAZ730000R1514		0.087	1
Matt Champagne Gold	–	PESD/2.10.1-411	2TAZ730000R4114		0.087	1



PESJ/2.10.1-201

Replaceable rocker with blind icon for PEONIA® control element, PEB/U2.0.1-xxx
Dimensions (L x W): 43 mm x 78 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PESJ/2.10.1-002	2TAZ730000R0023		0.087	1
Matt White	–	PESJ/2.10.1-001	2TAZ730000R0013		0.087	1
Matt Black	–	PESJ/2.10.1-201	2TAZ730000R2013		0.087	1
Matt Silver	–	PESJ/2.10.1-131	2TAZ730000R1313		0.087	1
Matt Platinum	–	PESJ/2.10.1-151	2TAZ730000R1513		0.087	1
Matt Champagne Gold	–	PESJ/2.10.1-411	2TAZ730000R4113		0.087	1



PESR/2.10.1-201

Replaceable rocker with temperature icon for PEONIA® control element, PEB/U2.0.1-xxx
Dimensions (L x W): 43 mm x 78 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PESR/2.10.1-002	2TAZ730000R0022		0.087	1
Matt White	–	PESR/2.10.1-001	2TAZ730000R0012		0.087	1
Matt Black	–	PESR/2.10.1-201	2TAZ730000R2012		0.087	1
Matt Silver	–	PESR/2.10.1-131	2TAZ730000R1312		0.087	1
Matt Platinum	–	PESR/2.10.1-151	2TAZ730000R1512		0.087	1
Matt Champagne Gold	–	PESR/2.10.1-411	2TAZ730000R4112		0.087	1

ABB i-bus® KNX

User Operation – Design Ranges – PEONIA®



PESF/2.10.1-201

Replaceable rocker with fan icon for PEONIA® control element, PEB/U2.0.1-xxx
Dimensions (L x W): 43 mm x 78 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PESF/2.10.1-002	2TAZ730000R0025		0.087	1
Matt White	–	PESF/2.10.1-001	2TAZ730000R0015		0.087	1
Matt Black	–	PESF/2.10.1-201	2TAZ730000R2015		0.087	1
Matt Silver	–	PESF/2.10.1-131	2TAZ730000R1315		0.087	1
Matt Platinum	–	PESF/2.10.1-151	2TAZ730000R1515		0.087	1
Matt Champagne Gold	–	PESF/2.10.1-411	2TAZ730000R4115		0.087	1



PESZ/2.10.1-201

Replaceable rocker with scene icon for PEONIA® control element,PEB/U2.0.1-xxx
Dimensions (L x W): 43 mm x 78 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PESZ/2.10.1-002	2TAZ730000R0026		0.087	1
Matt White	–	PESZ/2.10.1-001	2TAZ730000R0016		0.087	1
Matt Black	–	PESZ/2.10.1-201	2TAZ730000R2016		0.087	1
Matt Silver	–	PESZ/2.10.1-131	2TAZ730000R1316		0.087	1
Matt Platinum	–	PESZ/2.10.1-151	2TAZ730000R1516		0.087	1
Matt Champagne Gold	–	PESZ/2.10.1-411	2TAZ730000R4116		0.087	1



PESX/35.10.1-201

Replaceable rocker without icon for PEONIA® control element, PEB/U3.0.1-xxx, PEB/U5.0.1-xxx
Dimensions (L x W): 29 mm x 78 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PESX/35.10.1-002	2TAZ730001R0020		0.074	1
Matt White	–	PESX/35.10.1-001	2TAZ730001R0010		0.074	1
Matt Black	–	PESX/35.10.1-201	2TAZ730001R2010		0.074	1
Matt Silver	–	PESX/35.10.1-131	2TAZ730001R1310		0.074	1
Matt Platinum	–	PESX/35.10.1-151	2TAZ730001R1510		0.074	1
Matt Champagne Gold	–	PESX/35.10.1-411	2TAZ730001R4110		0.074	1



PESB/35.10.1-201

Replaceable rocker with lighting icon for PEONIA® control element, PEB/U3.0.1-xxx, PEB/U5.0.1-xxx
Dimensions (L x W): 29 mm x 78 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PESB/35.10.1-002	2TAZ730001R0021		0.074	1
Matt White	–	PESB/35.10.1-001	2TAZ730001R0011		0.074	1
Matt Black	–	PESB/35.10.1-201	2TAZ730001R2011		0.074	1
Matt Silver	–	PESB/35.10.1-131	2TAZ730001R1311		0.074	1
Matt Platinum	–	PESB/35.10.1-151	2TAZ730001R1511		0.074	1
Matt Champagne Gold	–	PESB/35.10.1-411	2TAZ730001R4111		0.074	1



PESD/35.10.1-201

Replaceable rocker with dimming icon for PEONIA® control element, PEB/U3.0.1-xxx, PEB/U5.0.1-xxx
Dimensions (L x W): 29 mm x 78 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PESD/35.10.1-002	2TAZ730001R0024		0.074	1
Matt White	–	PESD/35.10.1-001	2TAZ730001R0014		0.074	1
Matt Black	–	PESD/35.10.1-201	2TAZ730001R2014		0.074	1
Matt Silver	–	PESD/35.10.1-131	2TAZ730001R1314		0.074	1
Matt Platinum	–	PESD/35.10.1-151	2TAZ730001R1514		0.074	1
Matt Champagne Gold	–	PESD/35.10.1-411	2TAZ730001R4114		0.074	1



PESJ/35.10.1-201

Replaceable rocker with blind icon for PEONIA® control element, PEB/U3.0.1-xxx, PEB/U5.0.1-xxx
Dimensions (L x W): 29 mm x 78 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PESJ/35.10.1-002	2TAZ730001R0023		0.074	1
Matt White	–	PESJ/35.10.1-001	2TAZ730001R0013		0.074	1
Matt Black	–	PESJ/35.10.1-201	2TAZ730001R2013		0.074	1
Matt Silver	–	PESJ/35.10.1-131	2TAZ730001R1313		0.074	1
Matt Platinum	–	PESJ/35.10.1-151	2TAZ730001R1513		0.074	1
Matt Champagne Gold	–	PESJ/35.10.1-411	2TAZ730001R4113		0.074	1

ABB i-bus® KNX

User Operation – Design Ranges – PEONIA®



PESR/35.10.1-201

Replaceable rocker with temperature icon for PEONIA® control element, PEB/U3.0.1-xxx, PEB/U5.0.1-xxx
Dimensions (L x W): 29 mm x 78 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PESR/35.10.1-002	2TAZ730001R0022		0.074	1
Matt White	–	PESR/35.10.1-001	2TAZ730001R0012		0.074	1
Matt Black	–	PESR/35.10.1-201	2TAZ730001R2012		0.074	1
Matt Silver	–	PESR/35.10.1-131	2TAZ730001R1312		0.074	1
Matt Platinum	–	PESR/35.10.1-151	2TAZ730001R1512		0.074	1
Matt Champagne Gold	–	PESR/35.10.1-411	2TAZ730001R4112		0.074	1



PESF/35.10.1-201

Replaceable rocker with fan icon for PEONIA® control element, PEB/U3.0.1-xxx, PEB/U5.0.1-xxx
Dimensions (L x W): 29 mm x 78 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PESF/35.10.1-002	2TAZ730001R0025		0.074	1
Matt White	–	PESF/35.10.1-001	2TAZ730001R0015		0.074	1
Matt Black	–	PESF/35.10.1-201	2TAZ730001R2015		0.074	1
Matt Silver	–	PESF/35.10.1-131	2TAZ730001R1315		0.074	1
Matt Platinum	–	PESF/35.10.1-151	2TAZ730001R1515		0.074	1
Matt Champagne Gold	–	PESF/35.10.1-411	2TAZ730001R4115		0.074	1



PESZ/35.10.1-201

Replaceable rocker with scene icon for PEONIA® control element, PEB/U3.0.1-xxx, PEB/U5.0.1-xxx
Dimensions (L x W): 29 mm x 78 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PESZ/35.10.1-002	2TAZ730001R0026		0.074	1
Matt White	–	PESZ/35.10.1-001	2TAZ730001R0016		0.074	1
Matt Black	–	PESZ/35.10.1-201	2TAZ730001R2016		0.074	1
Matt Silver	–	PESZ/35.10.1-131	2TAZ730001R1316		0.074	1
Matt Platinum	–	PESZ/35.10.1-151	2TAZ730001R1516		0.074	1
Matt Champagne Gold	–	PESZ/35.10.1-411	2TAZ730001R4116		0.074	1



PESX/235.10.1-201

Replaceable rocker without icon for PEONIA® control element, PEBR/Ux.0.1-xxx
Dimensions (L x W): 18 mm x 78 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PESX/235.10.1-002	2TAZ730010R0020		0.065	1
Matt White	–	PESX/235.10.1-001	2TAZ730010R0010		0.065	1
Matt Black	–	PESX/235.10.1-201	2TAZ730010R2010		0.065	1
Matt Silver	–	PESX/235.10.1-131	2TAZ730010R1310		0.065	1
Matt Platinum	–	PESX/235.10.1-151	2TAZ730010R1510		0.065	1
Matt Champagne Gold	–	PESX/235.10.1-411	2TAZ730010R4110		0.065	1



PESB/235.10.1-201

Replaceable rocker with lighting icon for PEONIA® control element, PEBR/Ux.0.1-xxx
Dimensions (L x W): 18 mm x 78 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PESB/235.10.1-002	2TAZ730010R0021		0.065	1
Matt White	–	PESB/235.10.1-001	2TAZ730010R0011		0.065	1
Matt Black	–	PESB/235.10.1-201	2TAZ730010R2011		0.065	1
Matt Silver	–	PESB/235.10.1-131	2TAZ730010R1311		0.065	1
Matt Platinum	–	PESB/235.10.1-151	2TAZ730010R1511		0.065	1
Matt Champagne Gold	–	PESB/235.10.1-411	2TAZ730010R4111		0.065	1



PESD/235.10.1-201

Replaceable rocker with dimming icon for PEONIA® control element, PEBR/Ux.0.1-xxx
Dimensions (L x W): 18 mm x 78 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PESD/235.10.1-002	2TAZ730010R0024		0.065	1
Matt White	–	PESD/235.10.1-001	2TAZ730010R0014		0.065	1
Matt Black	–	PESD/235.10.1-201	2TAZ730010R2014		0.065	1
Matt Silver	–	PESD/235.10.1-131	2TAZ730010R1314		0.065	1
Matt Platinum	–	PESD/235.10.1-151	2TAZ730010R1514		0.065	1
Matt Champagne Gold	–	PESD/235.10.1-411	2TAZ730010R4114		0.065	1

ABB i-bus® KNX

User Operation – Design Ranges – PEONIA®



PESJ/235.10.1-201

Replaceable rocker with blind icon for PEONIA® control element, PEBR/Ux.0.1-xxx
Dimensions (L x W): 18 mm x 78 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PESJ/235.10.1-002	2TAZ730010R0023		0.065	1
Matt White	–	PESJ/235.10.1-001	2TAZ730010R0013		0.065	1
Matt Black	–	PESJ/235.10.1-201	2TAZ730010R2013		0.065	1
Matt Silver	–	PESJ/235.10.1-131	2TAZ730010R1313		0.065	1
Matt Platinum	–	PESJ/235.10.1-151	2TAZ730010R1513		0.065	1
Matt Champagne Gold	–	PESJ/235.10.1-411	2TAZ730010R4113		0.065	1



PESR/235.10.1-201

Replaceable rocker with temperature icon for PEONIA® control element, PEBR/Ux.0.1-xxx
Dimensions (L x W): 18 mm x 78 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PESR/235.10.1-002	2TAZ730010R0022		0.065	1
Matt White	–	PESR/235.10.1-001	2TAZ730010R0012		0.065	1
Matt Black	–	PESR/235.10.1-201	2TAZ730010R2012		0.065	1
Matt Silver	–	PESR/235.10.1-131	2TAZ730010R1312		0.065	1
Matt Platinum	–	PESR/235.10.1-151	2TAZ730010R1512		0.065	1
Matt Champagne Gold	–	PESR/235.10.1-411	2TAZ730010R4112		0.065	1



PESF/235.10.1-201

Replaceable rocker with fan icon for PEONIA® control element, PEBR/Ux.0.1-xxx
Dimensions (L x W): 18 mm x 78 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PESF/235.10.1-002	2TAZ730010R0025		0.065	1
Matt White	–	PESF/235.10.1-001	2TAZ730010R0015		0.065	1
Matt Black	–	PESF/235.10.1-201	2TAZ730010R2015		0.065	1
Matt Silver	–	PESF/235.10.1-131	2TAZ730010R1315		0.065	1
Matt Platinum	–	PESF/235.10.1-151	2TAZ730010R1515		0.065	1
Matt Champagne Gold	–	PESF/235.10.1-411	2TAZ730010R4115		0.065	1



PESZ/235.10.1-201

Replaceable rocker with scene icon for PEONIA® control element, PEBR/Ux.0.1-xxx
Dimensions (L x W): 18 mm x 78 mm.
For British standard installation only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Gloss White	–	PESZ/235.10.1-002	2TAZ730010R0026		0.065	1
Matt White	–	PESZ/235.10.1-001	2TAZ730010R0016		0.065	1
Matt Black	–	PESZ/235.10.1-201	2TAZ730010R2016		0.065	1
Matt Silver	–	PESZ/235.10.1-131	2TAZ730010R1316		0.065	1
Matt Platinum	–	PESZ/235.10.1-151	2TAZ730010R1516		0.065	1
Matt Champagne Gold	–	PESZ/235.10.1-411	2TAZ730010R4116		0.065	1

A smart sensor for everything
Advantages for you at a glance





—

The extra-flat KNX sensor fits into any environment

Flat and theft-proof
The frameless and extra-flat KNX sensor with a diameter of 9.5 mm sits almost flush with the wall and blends harmoniously into any wall design. Peace of mind is provided by the optional removal guard, which protects the KNX sensor from theft.





Secure access control for the hospitality industry

Hotel access control
The ABB tacteo® KNX range offers secure access control for the hospitality industry. It is particularly practical that the sensor performs all of a hotel's management tasks, which can be controlled from a central point such as the reception desk.

The capacitive glass sensors react without contact

Intuitive operation
The capacitive KNX glass sensors react without any touch or contact. When moving your hand towards the sensor, the status lighting switches on automatically. On the other hand, touching the sensor with the entire palm of your hand triggers a preprogrammed function – such as "switching on the light". With a tap of the finger the desired function can be activated. Easy operation is also ensured by the tried-and-tested colour control concept.





ABB tacteo® KNX

The individual touch

Unique in design and function, the intuitive and individually configurable ABB tacteo® KNX sensor is as extraordinary as you are. The impressive, high-quality black or white glass sensor with its capacitive user interface offers virtually unlimited possibilities for intelligent building networking. Heating, ventilation, blinds and lighting can all be controlled to create comfortable everyday situations and put intelligent building management firmly in your hands. Discover more details at **abb.com/tacteo**

ABB i-bus® KNX

User Operation – Design Ranges – ABB tacteo®

Touch Control Element with Bus Coupler, FM

Freely configurable multifunction control element. The icons and/or texts are configured by means of a web configuration tool. With integrated KNX bus coupler. With integrated temperature sensor and proximity function. Push switch function: switching / dimming / blind / sending values / scenes etc. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. The bus connection is provided via the enclosed bus terminal.



TB/U1.1.1-CG

1-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TB/U1.1.1-CG	2CKA006300A1538		86x86	1
Premium customization [1]	Go to configurator	TB/U1-CG	2CKA006300A1641		86x86	1



TB/U2.4.1-CG

2-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TB/U2.4.1-CG	2CKA006300A1539		86x86	1
Premium customization [1]	Go to configurator	TB/U2-CG	2CKA006300A1642		86x86	1



TB/U2.5.1-CG

2-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TB/U2.5.1-CG	2CKA006300A1540		86x86	1
Premium customization [1]	Go to configurator	TB/U2-CG	2CKA006300A1642		86x86	1



TB/U4.4.1-CG

4-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TB/U4.4.1-CG	2CKA006300A1541		86x86	1
Premium customization [1]	Go to configurator	TB/U4-CG	2CKA006300A1643		86x86	1

[1] The individual design can be selected via the website:
URL: https://tacteo-configurator.eu.mybuildings.abb.com/

ABB i-bus® KNX

User Operation – Design Ranges – ABB tacteo®



TB/U4.5.1-CG

4-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TB/U4.5.1-CG	2CKA006300A1612		86x86	1
Premium customization [1]	Go to configurator	TB/U4-CG	2CKA006300A1643		86x86	1



TB/U6.4.1-CG

6-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TB/U6.4.1-CG	2CKA006300A1542		86x86	1
Premium customization [1]	Go to configurator	TB/U6-CG	2CKA006300A1644		86x86	1



TB/U6.5.1-CG

6-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TB/U6.5.1-CG	2CKA006300A1602		86x86	1
Premium customization [1]	Go to configurator	TB/U6-CG	2CKA006300A1644		86x86	1



TB/U12.7.1-CG

12-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TB/U12.7.1-CG	2CKA006300A1543		86x157	1
Premium customization [1]	Go to configurator	TB/U12-CG	2CKA006300A1645		86x157	1



TB/U12.8.1-CG

12-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TB/U12.8.1-CG	2CKA006300A1544		157x86	1
Premium customization [1]	Go to configurator	TB/U12-CG	2CKA006300A1645		157x86	1

[1] The individual design can be selected via the website:
URL: https://tacteo-configurator.eu.mybuildings.abb.com/



TBR/U4.7.1-CG



TBR/U4.8.1-CG

Touch Control Element with Room Temperature Controller and Bus Coupler, 4-fold, FM

Freely configurable multifunction control element. The icons and/or texts are configured by means of a web configuration tool. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. Rocker switch left/right (switching/dimming/blind/value sender/light scenes/fan function). The controller is a constant room temperature controller for ventilator convectors (fan coils) in 2-pipe and 4-pipe systems and conventional heating or cooling systems. The fan stage can be switched manually or in automatic mode. Class of temperature controller 1. Contribution to space heating energy efficiency 1,0 %. With integrated KNX bus coupler.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TBR/U4.7.1-CG	2CKA006300A1545		86x157	1
Premium customization [1]	Go to configurator	TBR/U4-CG	2CKA006300A1648		86x157	1
Standard customization [1]	Go to configurator	TBR/U4.8.1-CG	2CKA006300A1546		157x86	1
Premium customization [1]	Go to configurator	TBR/U4-CG	2CKA006300A1648		157x86	1



TR/U.1.1-CG

Touch Room Temperature Controller with Bus Coupler, FM

Ordering possible only in connection with the design ID. The icons and/or texts are configured by means of a web configuration tool. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. The controller is a constant room temperature controller for ventilator convectors (fan coils) in 2-pipe and 4-pipe systems and conventional heating or cooling systems. The fan stage can be switched manually or in automatic mode. Class of temperature controller 1. Contribution to space heating energy efficiency 1,0 %. With integrated KNX bus coupler.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TR/U.1.1-CG	2CKA006300A1547		86x86	1
Premium customization [1]	Go to configurator	TR/U-CG	2CKA006300A1647		86x86	1

[1] The individual design can be selected via the website:
URL: https://tacteo-configurator.eu.mybuildings.abb.com/

ABB i-bus® KNX

User Operation – Design Ranges – ABB tacteo®



TBW/U.1.1-CG

Busch-Watchdog® 180 Sensor Standard with Bus Coupler, FM

Ordering possible only in connection with the design ID. Movement detector with up to 4 channels. The bus can be connected via enclosed terminal block. With integrated temperature sensor. With integrated KNX bus coupler.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TBW/U.1.1-CG	2CKA006300A1548		86x86	1
Premium customization [1]	Go to configurator	TBW/U-CG	2CKA006300A1654		86x86	1



TA/U3.1.1-CG

Room Outdoor Sensor with Bus Coupler, FM

Ordering possible only in connection with the design ID. The icons and/or texts are configured by means of a web configuration tool. Freely programmable function ”Do not disturb“, ”Bell“ and ”Make up room“. Push switch function: switching / dimming / blind / sending values / scenes etc. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. With integrated KNX bus coupler. With integrated temperature sensor and proximity function. The bus connection is provided via the enclosed bus terminal.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TA/U3.1.1-CG	2CKA006300A1549		86x86	1
Premium customization [1]	Go to configurator	TA/U3-CG	2CKA006300A1646		86x86	1



TSN/U.2.1-CG

Room Outdoor Sensor with Room Number and Bus Coupler, FM

Ordering possible only in connection with the design ID. The icons and/or texts are configured by means of a web configuration tool. Freely programmable function ”Do not disturb“, ”Bell“ and ”Make up room“. With backlit room number. Push switch function: switching / dimming / blind / sending values / scenes etc. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. The bus connection is provided via the enclosed bus terminal. The device requires a 12...24 V AC/DC external power supply to ensure its operation even with bus voltage failure.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TSN/U.2.1-CG	2CKA006300A1603		86x157	1
Premium customization [1] [2]	Go to configurator	TSN/U-CG	2CKA006300A1653		86x157	1

[1] The individual design can be selected via the website:
URL: https://tacteo-configurator.eu.mybuildings.abb.com/

Touch Control Element with Bus Coupler, FM

Freely configurable multifunction control element. The icons and/or texts are configured by means of a web configuration tool. With integrated KNX bus coupler. With integrated temperature sensor and proximity function. Push switch function: switching / dimming / blind / sending values / scenes etc. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. The bus connection is provided via the enclosed bus terminal.



TB/U1.3.1-CG

1-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TB/U1.3.1-CG	2CKA006300A1590		115x86	1
Premium customization [1] [2]	Go to configurator	TB/U1-CG	2CKA006300A1641		115x86	1



TB/U2.8.1-CG

2-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TB/U2.8.1-CG	2CKA006300A1579		115x86	1
Premium customization [1] [2]	Go to configurator	TB/U2-CG	2CKA006300A1642		115x86	1



TB/U4.8.1-CG

4-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TB/U4.8.1-CG	2CKA006300A1593		115x86	1
Premium customization [1] [2]	Go to configurator	TB/U4-CG	2CKA006300A1643		115x86	1



TB/U6.8.1-CG

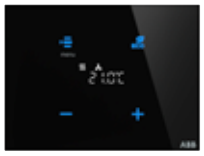
6-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TB/U6.8.1-CG	2CKA006300A1594		115x86	1
Premium customization [1] [2]	Go to configurator	TB/U6-CG	2CKA006300A1644		115x86	1

[1] The individual design can be selected via the website:
URL: https://tacteo-configurator.eu.mybuildings.abb.com/

ABB i-bus® KNX

User Operation – Design Ranges – ABB tacteo®



TR/U.3.1-CG

Touch Room Temperature Controller with Bus Coupler, FM

Ordering possible only in connection with the design ID. The icons and/or texts are configured by means of a web configuration tool. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. Control element with room thermostat function for controlling TSA/K 230.1, TSA/K 24.1 in connection with KNX-Heating actuator, commercially available valve drives or analogue valve drives (continuous controllers). The controller is a constant room temperature controller for ventilator convectors (fan coils) in 2-pipe and 4-pipe systems and conventional heating or cooling systems. The fan stage can be switched manually or in automatic mode. Class of temperature controller 1. Contribution to space heating energy efficiency 1,0 %. With integrated KNX bus coupler.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TR/U.3.1-CG	2CKA006300A1595		115x86	1
Premium customization [1] [2]	Go to configurator	TR/U-CG	2CKA006300A1647		115x86	1



TBW/U.3.1-CG

Busch-Watchdog® 180 Sensor Standard with Bus Coupler, FM

Ordering possible only in connection with the design ID. Movement detector with up to 4 channels. The bus can be connected via enclosed terminal block. With integrated temperature sensor. With integrated KNX bus coupler.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TBW/U.3.1-CG	2CKA006300A1596		115x86	1
Premium customization [1] [2]	Go to configurator	TBW/U-CG	2CKA006300A1654		115x86	1



TA/U3.3.1-CG

Room Outdoor Sensor with Bus Coupler, FM

Ordering possible only in connection with the design ID. The icons and/or texts are configured by means of a web configuration tool. Freely programmable function ”Do not disturb“, ”Bell“ and ”Make up room“. Push switch function: switching / dimming / blind / sending values / scenes etc. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. With integrated KNX bus coupler. With integrated temperature sensor and proximity function. The bus connection is provided via the enclosed bus terminal.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TA/U3.3.1-CG	2CKA006300A1597		115x86	1
Premium customization [1] [2]	Go to configurator	TA/U3-CG	2CKA006300A1646		115x86	1

[1] The individual design can be selected via the website:
URL: https://tacteo-configurator.eu.mybuildings.abb.com/

Touch Control Element with Bus Coupler, FM

Freely configurable multifunction control element. The icons and/or texts are configured by means of a web configuration tool. With integrated KNX bus coupler. With integrated temperature sensor and proximity function. Push switch function: switching / dimming / blind / sending values / scenes etc. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. The bus connection is provided via the enclosed bus terminal.



TB/U1.2.1-CG

1-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TB/U1.2.1-CG	2CKA006300A1578		86x115	1
Premium customization [1] [2]	Go to configurator	TB/U1-CG	2CKA006300A1641		86x115	1



TB/U2.7.1-CG

2-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TB/U2.7.1-CG	2CKA006300A1580		86x115	1
Premium customization [1] [2]	Go to configurator	TB/U2-CG	2CKA006300A1642		86x115	1



TB/U4.7.1-CG

4-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TB/U4.7.1-CG	2CKA006300A1581		86x115	1
Premium customization [1] [2]	Go to configurator	TB/U4-CG	2CKA006300A1643		86x115	1



TB/U6.7.1-CG

6-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TB/U6.7.1-CG	2CKA006300A1582		86x115	1
Premium customization [1] [2]	Go to configurator	TB/U6-CG	2CKA006300A1644		86x115	1

[1] The individual design can be selected via the website:
URL: https://tacteo-configurator.eu.mybuildings.abb.com/

ABB i-bus® KNX

User Operation – Design Ranges – ABB tacteo®



TR/U.2.1-CG

Touch Room Temperature Controller with Bus Coupler, FM

Ordering possible only in connection with the design ID. The icons and/or texts are configured by means of a web configuration tool. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. Control element with room thermostat function for controlling TSA/K 230.1, TSA/K 24.1 in connection with KNX-Heating actuator, commercially available valve drives or analogue valve drives (continuous controllers). The controller is a constant room temperature controller for ventilator convectors (fan coils) in 2-pipe and 4-pipe systems and conventional heating or cooling systems. The fan stage can be switched manually or in automatic mode. Class of temperature controller 1. Contribution to space heating energy efficiency 1,0 %. With integrated KNX bus coupler.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TR/U.2.1-CG	2CKA006300A1583		86x115	1
Premium customization [1] [2]	Go to configurator	TR/U-CG	2CKA006300A1647		86x115	1



TBW/U.2.1-CG

Busch-Watchdog® 180 Sensor Standard with Bus Coupler, FM

Ordering possible only in connection with the design ID. Movement detector with up to 4 channels. The bus can be connected via enclosed terminal block. With integrated temperature sensor. With integrated KNX bus coupler.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TBW/U.2.1-CG	2CKA006300A1584		86x115	1
Premium customization [1] [2]	Go to configurator	TBW/U-CG	2CKA006300A1654		86x115	1

[1] The individual design can be selected via the website:
URL: https://tacteo-configurator.eu.mybuildings.abb.com/



TA/U3.2.1-CG

Room Outdoor Sensor with Bus Coupler, FM

Ordering possible only in connection with the design ID. The icons and/or texts are configured by means of a web configuration tool. Freely programmable function ”Do not disturb“, ”Bell“ and ”Make up room“. Push switch function: switching / dimming / blind / sending values / scenes etc. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. With integrated KNX bus coupler. With integrated temperature sensor and proximity function. The bus connection is provided via the enclosed bus terminal. The device is mounted exclusively via the Italian flush-mounted device box according to EN60670 (CEI 23-48).

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
Standard customization [1]	Go to configurator	TA/U3.2.1-CG	2CKA006300A1585		86x115	1
Premium customization [1] [2]	Go to configurator	TA/U3-CG	2CKA006300A1646		86x115	1

[1] The individual design can be selected via the website:
URL: https://tacteo-configurator.eu.mybuildings.abb.com/

ABB i-bus® KNX

User Operation – Design Ranges – ABB tacteo®



TZW/U.0.1.CK

Removal protection tool

Tools for the removal of a device with installed removal protection TZE/U.0.11.CK. Installation is carried out on the flush-mounted insert of the device.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	TZW/U.0.1.CK	2CKA006300A1611			



TZE/U.0.1.CK

Removal protection for control elements

Prevents the disassembly of ABB Tenton® and Busch tacteo® control elements, room temperature controllers, external room sensors and movement detectors.
The tool with the mounted removal protection is disassembled using mounting tool TZW/U.x.x-CK.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	TZE/U.0.1.CK	2CKA006300A1633			



TZE/U.0.2.CK

Removal protection for access control devices for squared, horizontal and room number glass versions

Prevents the disassembly of ABB tacteo® card holders, card readers and external room sensors with/without card readers and room numbers.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	TZE/U.0.2.CK	2CSY245271S3601			



TZE/U.0.3.CK

Removal protection for access control devices for vertical glass versions

Prevents the dismantling of ABB tacteo® card holders, card readers and external room sensors with/without card readers and room numbers.

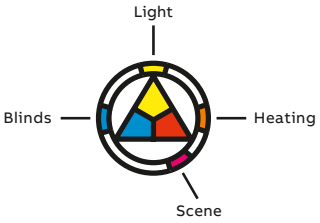
Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	TZE/U.0.3.CK	2CSY233741S3611			

Notes

ABB i-bus® KNX

User Operation – Design Ranges – Busch-priOn®

Busch-priOn® allows you to control and monitor functions for the entire room. Light, scenes, timer, blind control unit, heating control unit – all functions are controlled simply and intuitively via a rotary dial, and freely programmable functions can be called up via the rocker switches.
Busch-priOn® is a non-fixed, modular concept.



Colours that make life easier.
A consistent colour coding concept and durable LED technology make Busch-priOn® extremely easy to operate. The dial lights up in the colours of the coding system, thus providing feedback on the function currently selected. Yellow stands for lighting, blue for the blind control unit, magenta for light scenes and orange for the heating control unit. These colours are also found on the rocker switches of the control element panels.

01



The rotary control element is equipped with a freely programmable button which can be pressed and turned. It can be used to switch and dim individual lamps, but also to switch on whole groups of lamps with one press of a button and vary their brightness continuously via the dial.

Function
Dimming | Blinds | Value | Light scenes | Logic functions | Time functions

Features
Illuminated dial | Colour coding concept | Anti-theft protection | Day/night operation

02



The single control element is equipped with a freely programmable “large” operating button. It can be assigned to one topic and can carry out a maximum of two commands.

Function
Switching | Dimming | Blinds | Value | Buttons | Light scenes | Logic functions | Time functions

Features
Illuminated rocker switch | Colour coding concept | Freely programmable control button | Anti-theft protection | Replaceable labelling symbol (Fig. shows Lighting labelling symbol)

03



The triple control element is equipped with 3 freely programmable control buttons. Each can be assigned to one topic and can carry out a maximum of two commands.

Function
Switching | Dimming | Blinds | Value | Buttons | Light scenes | Logic functions | Time functions

Features
Illuminated rocker switches | Colour coding concept | Freely programmable control buttons | Anti-theft protection | Replaceable labelling symbol (Fig. shows labelling symbols Lighting, Blinds and Scene)

reddot design award
best of the best 2008

Busch-priOn® received special commendment in the category “best of the best,” winning the “red dot award: communication design 2008” for its interface design.

01 Rotary control element
02 1 gang control element
03 3 gang control element

01



A single-line display with integrated room temperature controller has been designed for the Busch-priOn® 3 gang control element, technically reduced to the basics and optically elegant. It is particularly easy to read due to the monochromatic design for white on black information. The room temperature controller, information function like time and date, up to 17 freely programmable text displays, IR sensor and proximity sensor have been integrated into the display. The design of the display is available in the colour and material “glass black” only.

02



Busch-priOn® is ideal in combination with the carat® switch series, which has surfaces in the same design.

03



The Busch-priOn® flush-mounted movement sensor can be used individually or with other Busch-priOn® modules. Practical because users thus do not have to look for the light switch and are greeted with light when first entering a dark room.

01 3 gang control element with single-line display and temperature controller

02 carat® glass black

03 Flush-mounted movement sensor

ABB i-bus® KNX

User Operation – Design Ranges – Planning aid for Busch-priOn®

End strips without function

studio white,
Article-No. 6348-24G-101-500

glass black,
Article-No. 6348-825-101-500

white glass,
Article-No. 6348-811-101-500

stainless steel,
Article-No. 6348-860-101-500

Support frame, bus coupler



Bus coupler Busch-priOn®,
Article-No. 6120/12-101



1 gang,
Article-No.
6346/10-101-500

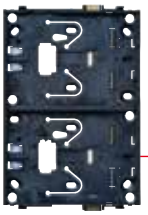
Note:
This power adaptor can supply up to 15 power bus couplers with current.



Power adaptor REG,
Article-No.
CP-D 24/2.5



Bus coupler Busch-priOn®,
Article-No. 6120/13-500



2 gang,
Article-No.
6346/11-101-500



3 gang,
Article-No.
6346/12-101-500

End strip



Commissioning adaptor,
Article-No. 6149/21-500

End strips without function

studio white,
Article-No. 6349-24G-101-500

white glass,
Article-No. 6349-811-101-500

glass black,
Article-No. 6349-825-101-500

stainless steel,
Article-No. 6349-860-101-500

End strip with IR proximity function



glass black,
Article-No.
6350-825-101-500

Note:
only combinable with 3 gang control element



Single-line display and room thermostat,
Article-No.
6351-825-101-500



Control element,
1 gang,
Article-No.
6340-825-101-500



Control element,
3 gang, Article-No.
6342-825-101-500



Rotary control element, 1 gang,
Article-No.
6341-825-101-500



Busch-Watchdog, 180 FM,
Article-No.
6345-825-101-500

Labelling symbols



Labelling inserts for blinds, lighting, RTC and scene. The colours are repeated in the Busch-Jaeger colour concept.

End strips with temperature sensor.

Not combinable with FM actuators.

studio white,
Article-No. 6352-24G-101-500

white glass,
Article-No. 6352-811-101-500

glass black,
Article-No. 6352-825-101-500

stainless steel,
Article-No. 6352-860-101-500

ABB i-bus® KNX

User Operation – Design Ranges – Busch-priOn®



6120/12-101-500

Bus Coupler, FM

for Busch-priOn® support frame 1-fold 6346/10-10x and control elements 6122/0x-xxx, 6124/0x-xxx, 6125/0x-xxx, 6126/0x-xxx, 6127/0x-xxx, 6128/0x-xxx and 6129/0x-xxx.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6120/12-101-500	2CKA006120A0075		0.068	1
swiss version	–	6120/12-101-508	2CKA006120A0076		0.068	1



6120/13-500

Power Bus Coupler, FM, Busch-priOn®

For Busch-priOn® base frame 1-fold, 2-fold and 3-fold. Separate power supply required. The KNX connection is used exclusively for bus communication.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6120/13-500	2CKA006120A0072		0.095	1
swiss version	–	6120/13-508	2CKA006120A0073		0.095	1

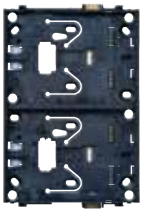


6346/10-101-500

Base Frame, 1-fold, Busch-priOn®

For Busch-priOn® for seating and contact connection of rotary control elements, operating element 1-fold and 3-fold as well as the top/bottom finishing strip. For contacting with the Bus Coupler priOn or Power Bus Coupler priOn.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6346/10-101-500	2CKA006310A0135		0.012	1



6346/11-101-500

Base Frame, 2-fold, Busch-priOn®

For Busch-priOn® for seating and contact connection of 8.89 cm (3.5") TFT colour display with rotary control element, rotary control element 1-fold and 3-fold as well as the top/bottom finishing strip. For contacting with the Power Bus Coupler priOn.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6346/11-101-500	2CKA006310A0137		0.116	1



6346/12-101-500

Base Frame, 3-fold, Busch-priOn®

For Busch-priOn® for seating and contact connection of 8.89 cm (3.5") TFT colour display with rotary control element, rotary control element 1-fold and 3-fold as well as the top/bottom finishing strip. For contacting with the Power Bus Coupler priOn.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6346/12-101-500	2CKA006310A0139		0.159	1



6340-825-101-500

Control Element, 1-fold, Busch-priOn®

Freely programmable multi-function operation element for installation in the Base Frame 1-fold, 2-fold or 3-fold. Supports the KNX functions with innovative colour concept on the labelling symbols or standard lighting in red/green. The accompanying symbol can be substituted by other alternative labelling symbols.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white, high gloss	–	6340-24G-101-500	2CKA006310A0109		0.188	1
white glass	–	6340-811-101-500	2CKA006310A0168		0.164	1
glas black	–	6340-825-101-500	2CKA006310A0108		0.145	1
stainless steel	–	6340-866-101-500	2CKA006310A0106		0.325	1

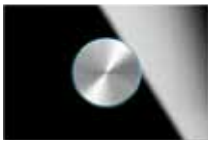


6342-825-101-500

Control Element, 3-fold, Busch-priOn®

Freely programmable multi-function operation element for installation in the Base Frame 1-fold, 2-fold or 3-fold. Supports the KNX functions with innovative colour concept on the labelling symbols or standard lighting in red/green. The accompanying symbol can be substituted by other alternative labelling symbols.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white, high gloss	–	6342-24G-101-500	2CKA006310A0125		0.191	1
white glass	–	6342-811-101-500	2CKA006310A0172		0.203	1
glas black	–	6342-825-101-500	2CKA006310A0124		0.203	1
stainless steel	–	6342-866-101-500	2CKA006310A0122		0.32	1



6341-825-101-500

Rotary Control Element, 1-fold, Busch-priOn®

Freely programmable multi-function rotary control element for installation in the Base Frame 1-fold, 2-fold or 3-fold. Supports the KNX functions with innovative colour concept on the rotary knob or standard lighting in red/green. Rotary knob stainless steel.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white, high gloss	–	6341-24G-101-500	2CKA006310A0117		0.218	1
white glass	–	6341-811-101-500	2CKA006310A0170		0.23	1
glas black	–	6341-825-101-500	2CKA006310A0116		0.175	1
stainless steel	–	6341-866-101-500	2CKA006310A0114		0.336	1

ABB i-bus® KNX

User Operation – Design Ranges – Busch-priOn®



6345-825-101-500

Busch Watchdog® 180 FM Sensor, Busch-priOn®

Sends switching commands with motion detection in combination with the bus coupler Busch-priOn®. Programmable via ETS for automatic and semi-automatic operation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white, high gloss	–	6345-24G-101-500	2CKA006310A0081		0.188	1
white glass	–	6345-811-101-500	2CKA006310A0176		0.166	1
glas black	–	6345-825-101-500	2CKA006310A0080		0.167	1
stainless steel	–	6345-866-101-500	2CKA006310A0078		0.325	1

6348-825-101-500

Top End Strip, Busch-priOn®

For mounting on Base Frame 1-fold to 3-fold.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white, high gloss	–	6348-24G-101-500	2CKA006310A0147		0.024	1
white glass	–	6348-811-101-500	2CKA006310A0178		0.034	1
glas black	–	6348-825-101-500	2CKA006310A0146		0.027	1
stainless steel	–	6348-860-101-500	2CKA006310A0144		0.048	1

6350-825-101-500

Top End Strip with IR Receiver and Proximity Sensor, Busch-priOn®

For mounting on Base Frame 1-fold to 3-fold. With integrated IR receiver for control by IR handheld control as well as integrated proximity function.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
glas black	–	6350-825-101-500	2CKA006310A0157		0.037	1



6349-825-101-500

Bottom End Strip, without logo, Busch-priOn®
For mounting on Base Frame 1-fold to 3-fold.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white, high gloss	–	6349-24G-101-500	2CKA006310A0155		0.024	1
white glass	–	6349-811-101-500	2CKA006310A0180		0.035	1
glas black	–	6349-825-101-500	2CKA006310A0154		0.027	1
stainless steel	–	6349-860-101-500	2CKA006310A0152		0.048	1



6352-825-101-500

Bottom End Strip with Temperature Sensor, Busch-priOn®
For mounting on Base Frame 1-fold to 3-fold. Provides the value measured by the temperature sensor to the 8.89 cm (3.5") TFT colour display or the room thermostat.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white, high gloss	–	6352-24G-101-500	2CKA006310A0165		0.024	1
white glass	–	6352-811-101-500	2CKA006310A0182		0.04	1
glas black	–	6352-825-101-500	2CKA006310A0164		0.024	1
stainless steel	–	6352-860-101-500	2CKA006310A0162		0.048	1



6351/08-825-500

Top End Strip with Display, Room Thermostat, IR Receiver and Proximity Sensor, Busch-priOn®
Top end strip for installation on 1 gang to 3 gang support frame (6346/10-101, 6346/11-101 and 6346/12-101). With integrated IR receiver for control using the Busch remote control 6010-25 or 6020-.../6121... and integrated proximity function. For heating and cooling (PI, PWM or 2-point). For control of up to 5-level ventilation actuators. With manual adjustment of fan levels. Master/slave configuration. With base-load operation. Display of up to 17 functions as text and/or icon. Only in connection with 1-gang rotary control element (6341-xxx-101) and 3-gang control element (6342-xxx-101) possible. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). Detection range: frontal: 0.5 m, lateral: 0.5 m. Detection angle: 100 °. Mounting height: 1.1 m. Protection class (Device): IP 20. Temperature range (Device): –5 °C to 45 °C.
Dimensions: (L x W x D): 33.4 mm x 106.6 mm x 15.5 mm

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
glas black	–	6351/08-825-500	2CKA006310A0183		0.064	1

ABB i-bus® KNX

User Operation – Design Ranges – Busch-priOn®



6353/20-860-500

Inscription Symbols, Busch-priOn®

For Busch-priOn® operating element 1-fold to 3-fold with different symbols.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
lighting	–	6353/20-860-500	2CKA006310A0093		0.011	1
blind	–	6353/30-860-500	2CKA006310A0094		0.011	1
Room Temperature	–	6353/40-860-500	2CKA006310A0095		0.011	1
scene	–	6353/50-860-500	2CKA006310A0096		0.011	1



6149/21-500

Commissioning Interface / Adapter

6120/12-101-500 and 6120/13-500 via USB port or via SD card slot.
With integrated battery for independent operation for up to 8 h.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6149/21-500	2CKA006133A0201		0.15	1



CP-D 24/2.5

Power Supply Unit, 24 V DC, 2.5 A

6120/12-101-500 and 6120/13-500 via USB port or via SD card slot.
With integrated battery for independent operation for up to 8 h.

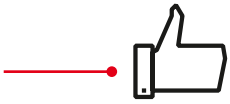
Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	CP-D 24/2.5	2CDG120037R0011		0.252	1

HVAC room automation
Solutions for HVAC room automation

ABB's room automation solutions ensure that all functions in a room are operated as efficiently as possible to save operational costs and improve the space environment.

For perfect climate conditions in a room
ABB's portfolio includes controllers for fan coils, radiators, floor heating and cooling ceiling applications, and devices for operating that can be easily installed on the wall or above the ceiling. Room control units are determined for small to medium commercial buildings. The whole ABB i-bus® KNX product portfolio is compatible with ClimaECO.



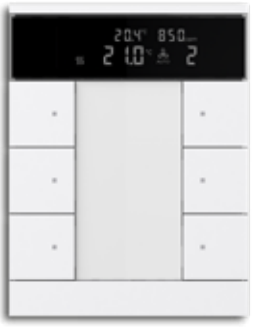


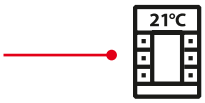
Easy installation and commissioning

Room Control Unit, SAR/A
The room temperature control unit allows every kind of room to be individually and conveniently heated or cooled as needed.

- Can be connected directly to FCC/S and VC/S
- Easy installation and commissioning
- Optimal price/peformance
- No power supply needed

User operation products





High degree of functionality

ClimaECO Room Controller
ABB has optimized its range of KNX room control units for commercial buildings. The result: easy-to-use room thermostats.

- Available with integrated room temperature controller and CO_2/humidity sensor
- Can be flush or surface-mounted
- Control of all room functions from HVAC to shading and lighting

ABB i-bus® KNX

User Operation – Design Ranges – ABB Tenton®



SBS/U6.0.1-84

Control Element with RTC Slave Unit, 6-fold

Freely configurable multifunction control element. Room Thermostat slave with max. 6 gang control. With labelling field. Transparent labelling sheet with standard symbols included in delivery. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. Rocker switch left/right (switching/dimming/blind/value sender/light scenes/fan function). With integrated temperature sensor. With actual value temperature display. With display of set-value temperature. The bus can be connected via enclosed terminal block.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white	–	SBS/U6.0.1-84	2CKA006330A0002			1
studio white matt	–	SBS/U6.0.1-884	2CKA006330A0036			1
black matt	–	SBS/U6.0.1-885	2CKA006330A0037			1
aluminium silver	–	SBS/U6.0.1-83	2CKA006330A0038			1



SBR/U6.0.1-84

Room Temperature Controller with Control Element, 6-fold

Freely configurable multifunction control element. With integrated KNX bus coupler. With labelling field. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. Push switch function: switching / dimming / blind / sending values / scenes etc. For activating heating, ventilation and fan coil actuators. Master/slave configuration. With base-load operation. The fan stage can be switched manually or in automatic mode. Class of temperature controller 1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white	–	SBR/U6.0.1-84	2CKA006330A0004			1
studio white matt	–	SBR/U6.0.1-884	2CKA006330A0042			1
black matt	–	SBR/U6.0.1-885	2CKA006330A0043			1
aluminium silver	–	SBR/U6.0.1-83	2CKA006330A0044			1



SBS/U10.0.1-84

Control Element with RTC Slave Unit, 10-fold

Freely configurable multifunction control element. With labelling field. Transparent labelling sheet with standard symbols included in delivery. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=-neutral/no function assigned) or standard illumination red/green. Rocker switch left/right (switching/dimming/blind/value sender/light scenes/fan function). With integrated temperature sensor. With actual value temperature display. With display of set-value temperature. The bus can be connected via enclosed terminal block.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white	–	SBS/U10.0.1-84	2CKA006330A0006			1
studio white matt	–	SBS/U10.0.1-884	2CKA006330A0048			1
black matt	–	SBS/U10.0.1-885	2CKA006330A0049			1
aluminium silver	–	SBS/U10.0.1-83	2CKA006330A0050			1



SBR/U10.0.1-84

Room Temperature Controller with Control Element, 10-fold

Freely configurable multifunction control element. With integrated KNX bus coupler. With labelling field. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. Push switch function: switching / dimming / blind / sending values / scenes etc. Master/slave configuration. With base-load operation. The controller is a constant room temperature controller for ventilator convectors (fan coils) in 2-pipe and 4-pipe systems and conventional heating or cooling systems. The fan stage can be switched manually or in automatic mode. Class of temperature controller 1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white	–	SBR/U10.0.1-84	2CKA006330A0008			1
studio white matt	–	SBR/U10.0.1-884	2CKA006330A0054			1
black matt	–	SBR/U10.0.1-885	2CKA006330A0055			1
aluminium silver	–	SBR/U10.0.1-83	2CKA006330A0056			1



SBC/U6.0.1-84

RTC with CO_2/Humidity Sensor and Control Element

Control element with room temperature controller function and CO_2/moisture/air pressure sensor. With integrated KNX bus coupler. With labelling field. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. Push switch function: switching / dimming / blind / sending values / scenes etc. For activating heating, ventilation and fan coil actuators. Master/slave configuration. With base-load operation. The fan stage can be switched manually or in automatic mode. Class of temperature controller 1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white, 6-fold	–	SBC/U6.0.1-84	2CKA006330A0010			1
studio white matt, 6-fold	–	SBC/U6.0.1-884	2CKA006330A0060			1
black matt, 6-fold	–	SBC/U6.0.1-885	2CKA006330A0061			1
aluminium silver, 6-fold	–	SBC/U6.0.1-83	2CKA006330A0062			1
davos/studio white, 10-fold	–	SBC/U10.0.1-84	2CKA006330A0012			1
studio white matt, 10-fold	–	SBC/U10.0.1-884	2CKA006330A0066			1
black matt, 10-fold	–	SBC/U10.0.1-885	2CKA006330A0067			1
aluminium silver, 10-fold	–	SBC/U10.0.1-83	2CKA006330A0068			1

ABB i-bus® KNX

User Operation – Design Ranges – ABB Tenton®



SB/U8.0.1-84

Control Element

With integrated KNX bus coupler. With labelling field. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green.
Push switch function: switching / dimming / blind / sending values / scenes etc. With integrated temperature sensor. Number of bus subscribers: 1

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white, 8-fold	–	SB/U8.0.1-84	2CKA006330A0014			1
studio white matt, 8-fold	–	SB/U8.0.1-884	2CKA006330A0072			1
black matt, 8-fold	–	SB/U8.0.1-885	2CKA006330A0073			1
aluminium silver, 8-fold	–	SB/U8.0.1-83	2CKA006330A0074			1
davos/studio white, 12-fold	–	SB/U12.0.1-84	2CKA006330A0016			1
studio white matt, 12-fold	–	SB/U12.0.1-884	2CKA006330A0078			1
black matt, 12-fold	–	SB/U12.0.1-885	2CKA006330A0079			1
aluminium silver, 12-fold	–	SB/U12.0.1-83	2CKA006330A0080			1



SAS/A.0.1-84

Support Frame, small, SM

Surface-mounted housing for mounting 8 gang control element, RT with 6 gang control element.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white	–	SAS/A.0.1-84	2CKA006330A0018			1
studio white matt	–	SAS/A.0.1-884	2CKA006330A0084			1
black matt	–	SAS/A.0.1-885	2CKA006330A0085			1
aluminium silver	–	SAS/A.0.1-83	2CKA006330A0086			1



SAB/A.0.1-84

Support Frame, large, SM

Surface-mounted housing for mounting 12 gang control element, RT with 10 gang control element.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white	–	SAB/A.0.1-84	2CKA006330A0020			1
studio white matt	–	SAB/A.0.1-884	2CKA006330A0090			1
black matt	–	SAB/A.0.1-885	2CKA006330A0091			1
aluminium silver	–	SAB/A.0.1-83	2CKA006330A0092			1

SLS/A.0.1-84

Cover for Label Area, small, RTC

Marking coverplate for RTR with 6 gang control element.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white	–	SLS/A.0.1-84	2CKA006330A0022			1
studio white matt	–	SLS/A.0.1-884	2CKA006330A0097			1
black matt	–	SLS/A.0.1-885	2CKA006330A0098			1
aluminium silver	–	SLS/A.0.1-83	2CKA006330A0099			1

SLM/A.0.1-84

Cover for Label Area, Control Element, small

Marking coverplate for 8 gang control element.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white	–	SLM/A.0.1-84	2CKA006330A0024			1
studio white matt	–	SLM/A.0.1-884	2CKA006330A0105			1
black matt	–	SLM/A.0.1-885	2CKA006330A0106			1
aluminium silver	–	SLM/A.0.1-83	2CKA006330A0107			1

SLB/A.0.1-84

Cover for Label Area, large, RTC

Upper marking coverplate for RT with 10-fold control element.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white	–	SLB/A.0.1-84	2CKA006330A0026			1
studio white matt	–	SLB/A.0.1-884	2CKA006330A0113			1
black matt	–	SLB/A.0.1-885	2CKA006330A0114			1
aluminium silver	–	SLB/A.0.1-83	2CKA006330A0115			1

ABB i-bus® KNX

User Operation – Design Ranges – ABB Tenton®

SLX/A.0.1-84

Cover for Label Area, Control Element, large

Marking coverplate for 12 gang control element.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white	–	SLX/A.0.1-84	2CKA006330A0028			1
studio white matt	–	SLX/A.0.1-884	2CKA006330A0121			1
black matt	–	SLX/A.0.1-885	2CKA006330A0122			1
aluminium silver	–	SLX/A.0.1-83	2CKA006330A0123			1



SLY/A.0.1-84

Bottom end strips without manufacturer logo

Bottom end strip for mounting on SBC/U, SBR/U, SBS/U and SB/U.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white	–	SLY/A.0.1-84	2CKA006330A0030			1
studio white matt	–	SLY/A.0.1-884	2CKA006330A0129			1
black matt	–	SLY/A.0.1-885	2CKA006330A0130			1
aluminium silver	–	SLY/A.0.1-83	2CKA006330A0131			1

Notes

ABB i-bus® KNX

User Operation – Design Ranges – Standard Control Elements

The standard control elements are available as 1/2 gang, 2/4 gang or 4/8 gang models. Every switch rocker has two LEDs, which display the status of the connected loads. The separate switch rockers are freely programmable and are suitable for switching and dimming, and also for operating blinds and as a light scene extension unit.

They can also be used in commercial applications. Anti-theft protection has also been integrated – an important factor for installations in public areas.

Customised text. Pictograms can be applied to push buttons for easier orientation. A clear text template with standard symbols is included for every sensor. The self-explanatory pictograms are available for the complete range of building control technology and if necessary can be easily replaced. If the appropriate symbol is not included, the push buttons can be labelled as desired. The related bus-coupler unit is included in delivery.

01



Function
Switching | Dimming | Blinds | Push-button | Value transmitter | Light scene extension unit

Features
Labellable switch rockers | Anti-theft protection | Freely programmable switches | Status/orientation light (red/green/OFF)

02



Function
Switching | Dimming | Blinds | Push-button | Value transmitter | Light scene extension unit

Features
Labellable switch rockers | Anti-theft protection | Freely programmable switches | Status/orientation light (red/green/OFF)

03



Function
Switching | Dimming | Blinds | Push-button | Value transmitter | Light scene extension unit

Features
Labellable switch rockers | Anti-theft protection | Freely programmable switches | Status/orientation light (red/green/OFF)

01 Standard control element 1/2 gang
02 Standard control element 2/4 gang
03 Standard control element 4/8 gang

Standard control element with bus coupler enclosed
With labelling field. Transparent labelling sheet with standard symbols included in delivery. Display elements: Two LED per rocker via separate communication object for status (Red/Green/OFF) or orientation light. Protection class (Device): IP 20. Temperature range (Device): –5 °C to +45 °C. Dimensions: (L x W x D): 63 mm x 63 mm.



6125/01



6126/01



6127/01

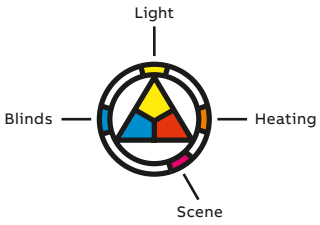
			Control Element with Bus Coupler, standard, FM, 1-fold with bus coupler enclosed			**Control Element with Bus Coupler, standard, FM, 2-fold with bus coupler enclosed**			**Control Element with Bus Coupler, standard, FM, 4-fold with bus coupler enclosed**		
			With 1 Control element: rocker switch left/right			With 2 Control elements: rocker switch left/right			With 4 Control elements: rocker switch left/right		
Pack unit pc.	**Weight 1 pc. kg**	**Description**	**Order details**		**Price 1 pc.**	**Order details**		**Price 1 pc.**	**Order details**		**Price 1 pc.**
			Type	**Order code**	**€**	**Type**	**Order code**	**€**	**Type**	**Order code**	**€**
		future® linear									
1		anthracite	6125/01-81-500	2CKA006115A0205		6126/01-81-500	2CKA006116A0195		6127/01-81-500	2CKA006117A0221	
1		savanne/ivory	6125/01-82-500	2CKA006115A0206		6126/01-82-500	2CKA006116A0196		6127/01-82-500	2CKA006117A0222	
1		aluminium silver [1]	6125/01-83-500	2CKA006115A0207		6126/01-83-500	2CKA006116A0197		6127/01-83-500	2CKA006117A0223	
1		davos/studio white	6125/01-84-500	2CKA006115A0183		6126/01-84-500	2CKA006116A0174		6127/01-84-500	2CKA006117A0200	
1		studio white, matt [1]	6125/01-884-500	2CKA006115A0214		6126/01-884-500	2CKA006116A0204		6127/01-884-500	2CKA006117A0230	
1		black, matt [1]	6125/01-885-500	2CKA006115A0215		6126/01-885-500	2CKA006116A0205		6127/01-885-500	2CKA006117A0231	
		solo®									
1		savanne/ivory	6125/01-82-500	2CKA006115A0206		6126/01-82-500	2CKA006116A0196		6127/01-82-500	2CKA006117A0222	
1		davos/studio white	6125/01-84-500	2CKA006115A0183		6126/01-84-500	2CKA006116A0174		6127/01-84-500	2CKA006117A0200	
1		meteor/grey metallic [1]	6125/01-803-500	2CKA006115A0212		6126/01-803-500	2CKA006116A0202		6127/01-803-500	2CKA006117A0228	
		carat®									
1		anthracite	6125/01-81-500	2CKA006115A0205		6126/01-81-500	2CKA006116A0195		6127/01-81-500	2CKA006117A0221	
1		savanne/ivory	6125/01-82-500	2CKA006115A0206		6126/01-82-500	2CKA006116A0196		6127/01-82-500	2CKA006117A0222	
1		davos/studio white	6125/01-84-500	2CKA006115A0183		6126/01-84-500	2CKA006116A0174		6127/01-84-500	2CKA006117A0200	
		pure stainless steel [1]									
1		stainless steel	6125/01-866-500	2CKA006115A0211		6126/01-866-500	2CKA006116A0201		6127/01-866-500	2CKA006117A0227	
		Busch-axcent®									
1		davos/studio white	6125/01-84-500	2CKA006115A0183		6126/01-84-500	2CKA006116A0174		6127/01-84-500	2CKA006117A0200	

[1] Surface painted

ABB i-bus® KNX

User Operation – Design Ranges – Multifunction Control Elements

The multifunction control elements with LED colour code concept meet the highest demands for comfort and technology. They each come with two RGB LEDs per rocker switch, which conform to a consistent colour concept. This makes the function obvious at a glance, and the surfaces can be additionally fitted with pictograms. Each side of a rocker switch can be occupied with its own function – each for calling up one light scene, for instance. This turns a 4 gang control element into an 8 gang control element.





01	Multifunction control element 1/2 gang
02	Multifunction control element 2/4 gang
03	Multifunction control element 4/8 gang
04	Multifunction control element 2/4 gang, integrated room thermostat
05	Multifunction control element 3/6 gang with IR reception
06	FM movement detector standard
07	FM movement detector comfort

01



Function
Switching | Dimming | Blinds | Push-button | Value transmitter | Light scene extension unit | Step-type | Multiple operation | Logic function (including light scenes)

Features
Labellable switch rockers | Anti-theft protection | Freely programmable switches | LED colour code concept

02



Function
Switching | Dimming | Blinds | Push-button | Value transmitter | Light scene extension unit | Step-type | Multiple operation | Logic function (including light scenes)

Features
Labellable switch rockers | Anti-theft protection | Freely programmable switches | LED colour code concept

03



Function
Switching | Dimming | Blinds | Push-button | Value transmitter | Light scene extension unit | Step-type | Multiple operation | Logic function (including light scenes)

Features
Labellable switch rockers | Anti-theft protection | Freely programmable switches | LED colour code concept

Wide range. Different shapes, colours and materials fulfil every requirement. KNX control elements are available in the carat®, pure stainless steel, solo®, Busch-axcent® and future® linear programmes. The complete range of conventional switches from these series is available, so there are no limits to the options for combining KNX components.







04



Function
Comfort | Stand-by | Night mode | Frost protection | Specified temperature | Time | Date | Heating | Cooling | Fan Coil operation for heating and cooling | Light scenes | Light scene extension unit | Value | Logic function (including light scenes)

Features
Labellable switch rockers | Anti-theft protection | Display illumination | Colour concept

05



Function
10 freely programmable IR channels | Switching | Dimming | Blinds | Button | Light scenes | Light scene extension unit | Value | Logic function (including light scenes)

Features
Labellable switch rockers | Anti-theft protection | Display illumination | Colour concept

06



Function
4 channels | Logic function (including light scenes)

07



Function
4 channels | Logic function (including light scenes)

ABB i-bus® KNX

User Operation – Design Ranges – Multifunction Control Elements

Control element, Multi-function/colour concept
For BCU 6120/12-101-500 or 6120/13-500. With labelling field. Support of KNX functions through innovative colour concept or standard illumination red/green. Push switch function: switching/dimming/blind/sending values/scenes etc. Transparent labelling sheet with standard symbols included in delivery. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). Display elements: Two LED per rocker via separate communication object for status (Red/Green/OFF) or orientation light.



6125/02



6126/02



6127/02

			Control element, 1/2-fold Multi-function/colour concept			Control element, 2/4-fold Multi-function/colour concept			Control element, 4/8-fold Multi-function/colour concept		
			With 1 Control element: rocker switch left/right			With 2 Control elements: rocker switch left/right			With 4 Control elements: rocker switch left/right		
Pack unit pc.	Weight 1 pc. kg	Description	Order details		Price 1 pc.	Order details		Price 1 pc.	Order details		Price 1 pc.
			Type	Order code	€	Type	Order code	€	Type	Order code	€
		future® linear									
1		anthracite	6125/02-81-500	2CKA006115A0216		6126/02-81-500	2CKA006116A0206		6127/02-81-500	2CKA006117A0232	
1		savanne/ivory	6125/02-82-500	2CKA006115A0217		6126/02-82-500	2CKA006116A0207		6127/02-82-500	2CKA006117A0233	
1		aluminium silver [1]	6125/02-83-500	2CKA006115A0218		6126/02-83-500	2CKA006116A0208		6127/02-83-500	2CKA006117A0234	
1		davos/studio white	6125/02-84-500	2CKA006115A0219		6126/02-84-500	2CKA006116A0209		6127/02-84-500	2CKA006117A0235	
1		studio white, matt [1]	6125/02-884-500	2CKA006115A0226		6126/02-884-500	2CKA006116A0216		6127/02-884-500	2CKA006117A0242	
1		black, matt [1]	6125/02-885-500	2CKA006115A0227		6126/02-885-500	2CKA006116A0217		6127/02-885-500	2CKA006117A0243	
		solo®									
1		savanne/ivory	6125/02-82-500	2CKA006115A0217		6126/02-82-500	2CKA006116A0207		6127/02-82-500	2CKA006117A0233	
1		davos/studio white	6125/02-84-500	2CKA006115A0219		6126/02-84-500	2CKA006116A0209		6127/02-84-500	2CKA006117A0235	
1		meteor/grey metallic [1]	6125/02-803-500	2CKA006115A0224		6126/02-803-500	2CKA006116A0214		6127/02-803-500	2CKA006117A0240	
		carat®									
1		anthracite	6125/02-81-500	2CKA006115A0216		6126/02-81-500	2CKA006116A0206		6127/02-81-500	2CKA006117A0232	
1		savanne/ivory	6125/02-82-500	2CKA006115A0217		6126/02-82-500	2CKA006116A0207		6127/02-82-500	2CKA006117A0233	
1		davos/studio white	6125/02-84-500	2CKA006115A0219		6126/02-84-500	2CKA006116A0209		6127/02-84-500	2CKA006117A0235	
		pure stainless steel [1]									
1		stainless steel	6125/02-866-500	2CKA006115A0223		6126/02-866-500	2CKA006116A0213		6127/02-866-500	2CKA006117A0239	
		Busch-axcent®									
1		davos/studio white	6125/02-84-500	2CKA006115A0219		6126/02-84-500	2CKA006116A0209		6127/02-84-500	2CKA006117A0235	
		Dynasty®									
1		anthracite	6125/02-81-500	2CKA006115A0216		6126/02-81-500	2CKA006116A0206		6127/02-81-500	2CKA006117A0232	
1		savanne/ivory	6125/02-82-500	2CKA006115A0217		6126/02-82-500	2CKA006116A0207		6127/02-82-500	2CKA006117A0233	
1		antique brass	6125/02-840-500	2CKA006115A0452		6126/02-840-500	2CKA006116A0227		6127/02-840-500	2CKA006117A0252	

[1] Surface painted



6129/01

Control Element, 3/6-fold, multifunction, with IR-Interface, FM
suitable for KNX bus coupler 6120/12-101-500 and 6120/13-500. With IR interface for Busch-remote controllers 6010-25 or 6020-.../6021-... . Push button function: switching/dimming/blind/value sending/light scenes/step-type switch functions. Switch contacts left/right. Two freely programmable RGB LEDs per rocker. With RGB colour code concept or red/green/OFF-operation. With labeling field. Transparent labeling sheet with standard symbols included in delivery.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
future® linear						
anthracite	–	6129/01-81-500	2CKA006135A0156		0.08	1
savanne/ivory	–	6129/01-82-500	2CKA006135A0157		0.08	1
aluminium silver [1)]	–	6129/01-83-500	2CKA006135A0158		0.08	1
davos/studio white	–	6129/01-84-500	2CKA006135A0146		0.08	1
studio white, matt [1)]	–	6129/01-884-500	2CKA006135A0165		0.08	1
black, matt [1)]	–	6129/01-885-500	2CKA006135A0166		0.08	1
solo®						
savanne/ivory	–	6129/01-82-500	2CKA006135A0157		0.08	1
davos/studio white	–	6129/01-84-500	2CKA006135A0146		0.08	1
meteor/grey metallic [1)]	–	6129/01-803-500	2CKA006135A0163		0.08	1
carat®						
anthracite	–	6129/01-81-500	2CKA006135A0156		0.08	1
savanne/ivory	–	6129/01-82-500	2CKA006135A0157		0.08	1
davos/studio white	–	6129/01-84-500	2CKA006135A0146		0.08	1
pure stainless steel [1)]						
stainless steel	–	6129/01-866-500	2CKA006135A0162		0.08	1
Busch-axcent®						
davos/studio white	–	6129/01-84-500	2CKA006135A0146		0.08	1

[1)] Surface painted

ABB i-bus® KNX

User Operation – Design Ranges – Movement Detectors



6122/02-84-500

Busch-Watchdog® 180 Comfort, FM

Movement detector with up to 4 channels. For ABB i-bus® KNX 6120/12-101-500, 6120/13-500. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.)

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
future® linear						
anthracite	–	6122/02-81-500	2CKA006132A0283		0.063	1
savanne/ivory	–	6122/02-82-500	2CKA006132A0284		0.063	1
aluminium silver [1]	–	6122/02-83-500	2CKA006132A0285		0.063	1
davos/studio white	–	6122/02-84-500	2CKA006132A0263		0.063	1
studio white, matt [1]	–	6122/02-884-500	2CKA006132A0292		0.063	1
black, matt [1]	–	6122/02-885-500	2CKA006132A0293		0.063	1
solo®						
savanne/ivory	–	6122/02-82-500	2CKA006132A0284		0.063	1
davos/studio white	–	6122/02-84-500	2CKA006132A0263		0.063	1
meteor/grey metallic [1]	–	6122/02-803-500	2CKA006132A0290		0.063	1
carat®						
anthracite	–	6122/02-81-500	2CKA006132A0283		0.063	1
savanne/ivory	–	6122/02-82-500	2CKA006132A0284		0.063	1
davos/studio white	–	6122/02-84-500	2CKA006132A0263		0.063	1
pure stainless steel [1]						
stainless steel	–	6122/02-866-500	2CKA006132A0289		0.063	1
Busch-axcent®						
davos/studio white	–	6122/02-84-500	2CKA006132A0263		0.063	1

[1] Surface painted



6122/10-84-500

Busch-Watchdog® 180 Sensor Standard, Select with integrated bus coupler, FM
Movement detector with up to 4 channels. The bus can be connected via enclosed terminal block. With integrated KNX bus coupler.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Reflex SI						
white	–	6122/10-212-500	2CKA006132A0373		0.08	1
alpine white	–	6122/10-214-500	2CKA006132A0374		0.08	1
future® linear						
anthracite	–	6122/10-81-500	2CKA006132A0376		0.08	1
ivory	–	6122/10-82-500	2CKA006132A0377		0.08	1
aluminium silver	–	6122/10-83-500	2CKA006132A0378		0.08	1
studio white	–	6122/10-84-500	2CKA006132A0379		0.08	1
studio white matt	–	6122/10-884-500	2CKA006132A0380		0.08	1
black, matt	–	6122/10-885-500	2CKA006132A0381		0.08	1
solo®						
ivory	–	6122/10-82-500	2CKA006132A0377		0.08	1
studio white	–	6122/10-84-500	2CKA006132A0379		0.08	1
grey metallic	–	6122/10-803-500	2CKA006132A0382		0.08	1
Busch-axcent®						
studio white	–	6122/10-84-500	2CKA006132A0379		0.08	1
pure stainless steel						
stainless steel	–	6122/10-866-500	2CKA006132A0385		0.08	1
carat®						
anthracite	–	6122/10-81-500	2CKA006132A0376		0.08	1
ivory	–	6122/10-82-500	2CKA006132A0377		0.08	1
studio white	–	6122/10-84-500	2CKA006132A0379		0.08	1
Dynasty®						
anthracite	–	6122/10-81-500	2CKA006132A0376		0.08	1
ivory	–	6122/10-82-500	2CKA006132A0377		0.08	1
antique brass	–	6122/10-840-500	2CKA006132A0407		0.08	1

ABB i-bus® KNX

User Operation – Design Ranges – Room Thermostats



6128/28-884-500

Room Thermostat with Display and 2/4-fold Switch Sensor, FM
For ABB i-bus® KNX bus coupler 6120/12-101-500, 6120/13-500. Support of KNX functions through innovative colour concept (yellow = lighting, blue = blind, orange = RTC, magenta = scene and white = neutral/no function assigned) or standard illumination red/green. Rocker switch left/right (switching/dimming/blind/value sender/light scenes/fan function). Master/slave configuration. With base-load operation. The controller is a constant room temperature controller for ventilator convectors (fan coils) in 2-pipe and 4-pipe systems and conventional heating or cooling systems. The fan stage can be switched manually or in automatic mode. Transparent labelling sheet with standard symbols included in delivery. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). Control element: Switch contacts left/right, also for selecting setpoint and mode of operation Display elements: LCD showing operation mode and temperature. Protection class (Device): IP 20. Temperature range (Device): –5 °C to 45 °C. Dimensions: (L x W x D): 63 mm x 63 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
future® linear						
anthracite	–	6128/28-81-500	2CKA006134A0331		0.076	1
savanne/ivory	–	6128/28-82-500	2CKA006134A0332		0.076	1
aluminium silver	–	6128/28-83-500	2CKA006134A0333		0.076	1
davos/studio white	–	6128/28-84-500	2CKA006134A0334		0.076	1
studio white, matt	–	6128/28-884-500	2CKA006134A0338		0.076	1
black, matt	–	6128/28-885-500	2CKA006134A0339		0.076	1
solo®						
savanne/ivory	–	6128/28-82-500	2CKA006134A0332		0.076	1
davos/studio white	–	6128/28-84-500	2CKA006134A0334		0.076	1
meteor/grey metallic	–	6128/28-803-500	2CKA006134A0336		0.076	1
carat®						
anthracite	–	6128/28-81-500	2CKA006134A0331		0.076	1
savanne/ivory	–	6128/28-82-500	2CKA006134A0332		0.076	1
davos/studio white	–	6128/28-84-500	2CKA006134A0334		0.076	1
pure stainless steel						
stainless steel	–	6128/28-866-500	2CKA006134A0335		0.076	1
Busch-axcent®						
davos/studio white	–	6128/28-84-500	2CKA006134A0334		0.076	1
Dynasty®						
anthracite	–	6128/28-81-500	2CKA006134A0331		0.076	1
savanne/ivory	–	6128/28-82-500	2CKA006134A0332		0.076	1
antique brass	–	6128/28-840-500	2CKA006134A0342		0.076	1

ABB i-bus® KNX

User Operation – Design Ranges – Frames



1721-184K

Frames, future® linear

For vertical and horizontal installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
1-fold, anthracite	–	1721-181K	2CKA001754A4240		0.024	10
1-fold, savanna/ivory	–	1721-182K-500	2CKA001754A4506		0.024	10
1-fold, aluminium silver [1]	–	1721-183K-500	2CKA001754A4529		0.024	10
1-fold, davos/studio white	–	1721-184K-500	2CKA001754A4498		0.024	10
1-fold, studio white, matt [1]	–	1721-884K-500	2CKA001754A4531		0.024	10
1-fold, black matt [1]	–	1721-885K-500	2CKA001754A4532		0.024	10
2-fold, anthracite	–	1722-181K	2CKA001754A4241		0.041	10
2-fold, savanna/ivory	–	1722-182K	2CKA001754A4231		0.041	10
2-fold, aluminium silver [1]	–	1722-183K-500	2CKA001754A4530		0.04	10
2-fold, davos/studio white	–	1722-184K-500	2CKA001754A4499		0.041	10
2-fold, studio white, matt [1]	–	1722-884K	2CKA001754A4415		0.037	10
2-fold, black matt [1]	–	1722-885K-500	2CKA001754A4534		0.037	10
3-fold, anthracite	–	1723-181K	2CKA001754A4242		0.05	10
3-fold, savanna/ivory	–	1723-182K	2CKA001754A4232		0.05	10
3-fold, aluminium silver [1]	–	1723-183K-500	2CKA001754A4533		0.052	10
3-fold, davos/studio white	–	1723-184K-500	2CKA001754A4502		0.053	10
3-fold, studio white, matt [1]	–	1723-884K	2CKA001754A4416		0.052	10
3-fold, black matt [1]	–	1723-885K	2CKA001754A4421		0.052	10
4-fold, anthracite	–	1724-181K	2CKA001754A4243		0.064	10
4-fold, savanna/ivory	–	1724-182K	2CKA001754A4233		0.064	10
4-fold, aluminium silver [1]	–	1724-183K	2CKA001754A4309		0.064	10
4-fold, davos/studio white	–	1724-184K	2CKA001754A4238		0.064	10
4-fold, studio white, matt [1]	–	1724-884K	2CKA001754A4417		0.064	10
4-fold, black matt [1]	–	1724-885K	2CKA001754A4422		0.064	10
5-fold, anthracite	–	1725-181K	2CKA001754A4244		0.096	1
5-fold, savanna/ivory	–	1725-182K	2CKA001754A4234		0.114	1
5-fold, aluminium silver [1]	–	1725-183K	2CKA001754A4310		0.114	1
5-fold, davos/studio white	–	1725-184K-500	2CKA001754A4517		0.112	1
5-fold, studio white, matt [1]	–	1725-884K	2CKA001754A4418		0.114	1
5-fold, black matt [1]	–	1725-885K	2CKA001754A4423		0.114	1

[1] Surface painted

ABB i-bus® KNX

User Operation – Design Ranges – Frames



1721-80

Frames, solo®

For vertical and horizontal installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
1-fold, chrome, matt	–	1721-80-500	2CKA001754A4535		0.032	10
1-fold, chrome, glossy	–	1721-80G-500	2CKA001754A4538		0.032	10
1-fold, davos/studio white	–	1721-84-500	2CKA001754A4536		0.032	10
2-fold, chrome, matt	–	1722-80-500	2CKA001754A4537		0.055	10
2-fold, chrome, glossy	–	1722-80G	2CKA001754A4327		0.045	10
2-fold, davos/studio white	–	1722-84-500	2CKA001754A4539		0.055	10
3-fold, chrome, matt	–	1723-80-500	2CKA001754A4540		0.066	10
3-fold, chrome, glossy	–	1723-80G	2CKA001754A4328		0.073	10
3-fold, davos/studio white	–	1723-84-500	2CKA001754A4541		0.073	10
4-fold, chrome, matt	–	1724-80	2CKA001754A4107		0.12	1
4-fold, chrome, glossy	–	1724-80G	2CKA001754A4329		0.12	1
4-fold, davos/studio white	–	1724-84	2CKA001754A4112		0.12	1
5-fold, chrome, matt	–	1725-80	2CKA001754A4108		0.14	1
5-fold, chrome, glossy	–	1725-80G	2CKA001754A4330		0.14	1
5-fold, davos/studio white	–	1725-84	2CKA001754A4113		0.14	1



1721-860

Frames, carat®

For vertical and horizontal installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
1-fold, white glass	–	1721-811	2CKA001754A4442		0.161	1
1-fold, bronze	–	1721-821	2CKA001754A4258		0.38	1
1-fold, gold [1]	–	1721-823-101	2CKA001754A4356		0.34	1
1-fold, glass black	–	1721-825	2CKA001754A4322		0.16	1
1-fold, chrome	–	1721-826-101	2CKA001754A4360		0.335	1
1-fold, stainless steel	–	1721-860	2CKA001754A4254		0.34	1
2-fold, white glass	–	1722-811	2CKA001754A4443		0.234	1
2-fold, bronze	–	1722-821	2CKA001754A4259		0.559	1
2-fold, gold [1]	–	1722-823-101	2CKA001754A4357		0.5	1
2-fold, glass black	–	1722-825	2CKA001754A4323		0.24	1
2-fold, chrome	–	1722-826-101	2CKA001754A4361		0.5	1
2-fold, stainless steel	–	1722-860	2CKA001754A4255		0.48	1
3-fold, white glass	–	1723-811	2CKA001754A4444		0.312	1
3-fold, bronze	–	1723-821	2CKA001754A4260		0.678	1
3-fold, gold [1]	–	1723-823-101	2CKA001754A4358		0.66	1
3-fold, glass black	–	1722-825	2CKA001754A4323		0.24	1
3-fold, chrome	–	1723-826-101	2CKA001754A4362		0.66	1
3-fold, stainless steel	–	1723-860	2CKA001754A4256		0.6	1
4-fold, white glass	–	1724-811	2CKA001754A4445		0.388	1
4-fold, bronze	–	1724-821	2CKA001754A4261		0.816	1
4-fold, gold [1]	–	1724-823-101	2CKA001754A4359		0.8	1
4-fold, glass black	–	1724-825	2CKA001754A4325		0.4	1
4-fold, chrome	–	1724-826-101	2CKA001754A4363		0.82	1
4-fold, stainless steel	–	1724-860	2CKA001754A4257		0.758	1

[1] Gold plated 24 carat



1721-866K

Frames, pure stainless steel

For vertical and horizontal installation. Stainless steel material.
Anti-fingerprint (does not leave any visible fingerprints on the material).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
1-fold, stainless steel	–	1721-866K-500	2CKA001754A4500		0.038	10
2-fold, stainless steel	–	1722-866K-500	2CKA001754A4501		0.064	10
3-fold, stainless steel	–	1723-866K	2CKA001754A4319		0.083	10
4-fold, stainless steel	–	1724-866K	2CKA001754A4320		0.14	1
5-fold, stainless steel	–	1725-866K	2CKA001754A4321		0.175	1

ABB i-bus® KNX

User Operation – Design Ranges – Frames



1722-283

Frames, axcent®

For vertical and horizontal installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
1-fold, platinum	–	1721-270	2CKA001754A4683		0.049	1
1-fold, black mat	–	1721-275	2CKA001754A4703		0.049	1
1-fold, titanium	–	1721-276	2CKA001754A4693		0.049	1
1-fold, black	–	1721-281	2CKA001754A4409		0.041	10
1-fold, brown glass	–	1721-283	2CKA001754A4543		0.131	1
1-fold, davos/studio white	–	1721-284	2CKA001754A4331		0.038	10
1-fold, yellow	–	1721-285	2CKA001754A4334		0.041	10
1-fold, green	–	1721-286	2CKA001754A4337		0.041	10
1-fold, red	–	1721-287	2CKA001754A4340		0.041	10
1-fold, blue	–	1721-288	2CKA001754A4343		0.041	10
1-fold, white glass	–	1721-280	2CKA001754A4437		0.095	1
1-fold, entrée-grey	–	1721-291-500	2CKA001754A4471		0.041	10
1-fold, château-black	–	1721-295-500	2CKA001754A4491		0.041	10
1-fold, maison-beige	–	1721-299-500	2CKA001754A4481		0.041	10
2-fold, platinum	–	1722-270	2CKA001754A4684		0.073	1
2-fold, black mat	–	1722-275	2CKA001754A4704		0.073	1
2-fold, titanium	–	1722-276	2CKA001754A4694		0.073	1
2-fold, black	–	1722-281	2CKA001754A4410		0.054	10
2-fold, brown glass	–	1722-283	2CKA001754A4544		0.195	1
2-fold, davos/studio white	–	1722-284	2CKA001754A4332		0.055	10
2-fold, yellow	–	1722-285	2CKA001754A4335		0.055	10
2-fold, green	–	1722-286	2CKA001754A4338		0.055	10
2-fold, red	–	1722-287	2CKA001754A4341		0.055	10
2-fold, blue	–	1722-288	2CKA001754A4344		0.055	10
2-fold, white glass	–	1722-280	2CKA001754A4438		0.115	1
2-fold, entrée-grey	–	1722-291-500	2CKA001754A4472		0.055	10
2-fold, château-black	–	1722-295-500	2CKA001754A4492		0.055	10
2-fold, maison-beige	–	1722-299-500	2CKA001754A4482		0.055	10
3-fold, platinum	–	1723-270	2CKA001754A4685		0.100	1
3-fold, black mat	–	1723-275	2CKA001754A4705		0.100	1
3-fold, titanium	–	1723-276	2CKA001754A4695		0.100	1
3-fold, black	–	1723-281	2CKA001754A4411		0.073	10
3-fold, brown glass	–	1723-283	2CKA001754A4545		0.261	1
3-fold, davos/studio white	–	1723-284	2CKA001754A4333		0.073	10
3-fold, yellow	–	1723-285	2CKA001754A4336		0.073	10
3-fold, green	–	1723-286	2CKA001754A4339		0.073	10
3-fold, red	–	1723-287	2CKA001754A4342		0.073	10
3-fold, blue	–	1723-288	2CKA001754A4345		0.073	10
3-fold, white glass	–	1723-280	2CKA001754A4439		0.261	1
3-fold, entrée-grey	–	1723-291-500	2CKA001754A4473		0.073	10
3-fold, château-black	–	1723-295-500	2CKA001754A4493		0.073	10
3-fold, maison-beige	–	1723-299-500	2CKA001754A4483		0.073	10

Continuation of table “Frames, axcent” on next page

Continuation of table “Frames, axcent”

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
4-fold, platinum	–	1724-270	2CKA001754A4686		0.126	1
4-fold, black mat	–	1724-275	2CKA001754A4706		0.126	1
4-fold, titanium	–	1724-276	2CKA001754A4696		0.126	1
4-fold, black	–	1724-281	2CKA001754A4412		0.117	1
4-fold, brown glass	–	1724-283	2CKA001754A4546		0.328	1
4-fold, davos/studio white	–	1724-284	2CKA001754A4346		0.117	1
4-fold, yellow	–	1724-285	2CKA001754A4348		0.117	1
4-fold, green	–	1724-286	2CKA001754A4350		0.117	1
4-fold, red	–	1724-287	2CKA001754A4352		0.117	1
4-fold, blue	–	1724-288	2CKA001754A4354		0.117	1
4-fold, white glass	–	1724-280	2CKA001754A4440		0.328	1
4-fold, entrée-grey	–	1724-291-500	2CKA001754A4474		0.117	1
4-fold, château-black	–	1724-295-500	2CKA001754A4494		0.117	1
4-fold, maison-beige		1724-299-500	2CKA001754A4484		0.117	1
5-fold, platinum	–	1725-270	2CKA001754A4687		0.150	1
5-fold, black mat	–	1725-275	2CKA001754A4707		0.150	1
5-fold, titanium	–	1725-276	2CKA001754A4697		0.150	1
5-fold, black	–	1725-281	2CKA001754A4413		0.145	1
5-fold, brown glass	–	1725-283	2CKA001754A4547		0.38	1
5-fold, davos/studio white	–	1725-284	2CKA001754A4347		0.145	1
5-fold, yellow	–	1725-285	2CKA001754A4349		0.145	1
5-fold, green	–	1725-286	2CKA001754A4351		0.145	1
5-fold, red	–	1725-287	2CKA001754A4353		0.145	1
5-fold, blue	–	1725-288	2CKA001754A4355		0.145	1
5-fold, white glass	–	1725-280	2CKA001754A4441		0.38	1
5-fold, entrée-grey	–	1725-291-500	2CKA001754A4475		0.145	1
5-fold, château-black	–	1725-295-500	2CKA001754A4495		0.145	1
5-fold, maison-beige	–	1725-299-500	2CKA001754A4485		0.145	1

ABB i-bus® KNX

User Operation – Design Ranges – Frames



1721-838-500

Frames, Dynasty®

For vertical and horizontal installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
1-fold, polished brass ivory	–	1721-838-500	2CKA001754A4560		0.28	1
1-fold, polished brass anthracite	–	1721-835-500	2CKA001754A4565		0.28	1
1-fold, polished brass decor ivory	–	1721-836-500	2CKA001754A4570		0.28	1
1-fold, polished brass decor anthracite	–	1721-833-500	2CKA001754A4575		0.286	1
1-fold, antique brass ivory	–	1721-848-500	2CKA001754A4580		0.28	1
1-fold, antique brass anthracite	–	1721-845-500	2CKA001754A4585		0.3	1
1-fold, antique brass decor ivory	–	1721-846-500	2CKA001754A4590		0.3	1
1-fold, antique brass decor anthracite	–	1721-843-500	2CKA001754A4595		0.3	1
1-fold, ivory	–	1721-832-500	2CKA001754A4600		0.042	1
1-fold, anthracite	–	1721-831-500	2CKA001754A4605		0.042	1
2-fold, polished brass ivory	–	1722-838-500	2CKA001754A4561		0.42	1
2-fold, polished brass anthracite	–	1722-835-500	2CKA001754A4566		0.42	1
2-fold, polished brass decor ivory	–	1722-836-500	2CKA001754A4571		0.42	1
2-fold, polished brass decor anthracite	–	1722-833-500	2CKA001754A4576		0.42	1
2-fold, antique brass ivory	–	1722-848-500	2CKA001754A4581		0.44	1
2-fold, antique brass anthracite	–	1722-845-500	2CKA001754A4586		0.44	1
2-fold, antique brass decor ivory	–	1722-846-500	2CKA001754A4591		0.42	1
2-fold, antique brass decor anthracite	–	1722-843-500	2CKA001754A4596		0.44	1
2-fold, ivory	–	1722-832-500	2CKA001754A4601		0.064	1
2-fold, anthracite	–	1722-831-500	2CKA001754A4606		0.064	1
3-fold, polished brass ivory	–	1723-838-500	2CKA001754A4562		0.54	1
3-fold, polished brass anthracite	–	1723-835-500	2CKA001754A4567		0.54	1
3-fold, polished brass decor ivory	–	1723-836-500	2CKA001754A4572		0.56	1
3-fold, polished brass decor anthracite	–	1723-833-500	2CKA001754A4577		0.56	1
3-fold, antique brass ivory	–	1723-848-500	2CKA001754A4582		0.56	1
3-fold, antique brass anthracite	–	1723-845-500	2CKA001754A4587		0.54	1
3-fold, antique brass decor ivory	–	1723-846-500	2CKA001754A4592		0.56	1
3-fold, antique brass decor anthracite	–	1723-843-500	2CKA001754A4597		0.56	1
3-fold, ivory	–	1723-832-500	2CKA001754A4602		0.096	1
3-fold, anthracite	–	1723-831-500	2CKA001754A4607		0.096	1

Continuation of table “Frames, Dynasty®” on next page

Continuation of table “Frames, Dynasty®”

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
4-fold, polished brass ivory	–	1724-838-500	2CKA001754A4563		0.7	1
4-fold, polished brass anthracite	–	1724-835-500	2CKA001754A4568		0.7	1
4-fold, polished brass decor ivory	–	1724-836-500	2CKA001754A4573		0.7	1
4-fold, polished brass decor anthracite	–	1724-833-500	2CKA001754A4578		0.7	1
4-fold, antique brass ivory	–	1724-848-500	2CKA001754A4583		0.72	1
4-fold, antique brass anthracite	–	1724-845-500	2CKA001754A4588		0.7	1
4-fold, antique brass decor ivory	–	1724-846-500	2CKA001754A4593		0.7	1
4-fold, antique brass decor anthracite	–	1724-843-500	2CKA001754A4598		0.72	1
4-fold, ivory	–	1724-832-500	2CKA001754A4603		0.28	1
4-fold, anthracite	–	1724-831-500	2CKA001754A4608		0.28	1
5-fold, polished brass ivory	–	1725-838-500	2CKA001754A4564		0.82	1
5-fold, polished brass anthracite	–	1725-835-500	2CKA001754A4569		0.82	1
5-fold, polished brass decor ivory	–	1725-836-500	2CKA001754A4574		0.82	1
5-fold, polished brass decor anthracite	–	1725-833-500	2CKA001754A4579		0.82	1
5-fold, antique brass ivory	–	1725-848-500	2CKA001754A4584		0.84	1
5-fold, antique brass anthracite	–	1725-845-500	2CKA001754A4589		0.82	1
5-fold, antique brass decor ivory	–	1725-846-500	2CKA001754A4594		0.84	1
5-fold, antique brass decor anthracite	–	1725-843-500	2CKA001754A4599		0.84	1
5-fold, ivory	–	1725-832-500	2CKA001754A4604		0.34	1
5-fold, anthracite	–	1725-831-500	2CKA001754A4609		0.34	1

ABB i-bus® KNX

User Operation – Design Ranges – Busch-triton®

With freely programmable switch rockers, backlit label fields and IR sensor Busch-triton® is ideal for any application and with its elegant design it is commonly installed in hotels and public areas. Busch-triton® is equipped with an integrated bus coupler and IR receiver. The unit composed of control element and integrated bus coupler now really has everything required to control building systems elegantly and comfortably.



01	1/2 gang control element with rear-illuminated labelling area and IR reception
02	3/6 gang control element with rear-illuminated labelling area and IR reception
03	5/10 gang control element with rear-illuminated labelling area and IR reception

01



Function
Switching | Dimming | Blinds | Value transmitter | Value dimming sensor | Light scene extension unit | Step-type switch | Short/long operation | 13 freely programmable IR channels | 8 light scenes

Features
Labellable switch rockers | Rear-illuminated labelling field | Anti-theft protection | Freely programmable switches | IR remote-controllable | Freely programmable additional key

02



Function
Switching | Dimming | Blinds | Value transmitter | Value dimming sensor | Light scene extension unit | Step-type switch | Short/long operation | 13 freely programmable IR channels | 8 light scenes

Features
Labellable switch rockers | Rear-illuminated labelling field | Anti-theft protection | Freely programmable switches | IR remote-controllable

03



Function
Switching | Dimming | Blinds | Value transmitter | Value dimming sensor | Light scene extension unit | Step-type switch | Short/long operation | 13 freely programmable IR channels | 8 light scenes

Features
Labellable switch rockers | Rear-illuminated labelling field | Anti-theft protection | Freely programmable switches | IR remote-controllable | Freely programmable additional key

Colour-coordinated.
The Busch-triton® is available in five stunning colours, offering exactly the right ambience for any environment. The colours offer exactly the right accent to the carat®, impuls, alpha and future® linear ranges – such as the use of the colour-coordinated socket outlets or motion detectors.



01



Function
LCD display room temperature controller | Comfort | Stand-by | Night operation | Frost protection | Heating | Cooling | Fan control | Switching | Dimming | Blinds | Value | 13 freely programmable IR channels | 8 light scenes

Features
Labellable switch rockers | Rear-illuminated labelling field | Anti-theft protection | Freely programmable switches | IR remote-controllable | Freely programmable additional key

02



Function
LCD display room temperature controller | Comfort | Stand-by | Night operation | Frost protection | Heating | Cooling | Fan control | Switching | Dimming | Blinds | Value | 13 freely programmable IR channels | 8 light scenes

Features
Labellable switch rockers | Rear-illuminated labelling field | Anti-theft protection | Freely programmable switches | IR remote-controllable | Freely programmable additional key

01	3/6 gang control element with rear-illuminated labelling field, integrated room thermostat, LCD display and IR reception
02	5/10 gang control element with rear-illuminated labelling field, integrated room thermostat, LCD display and IR reception

ABB i-bus® KNX

User Operation – Design Ranges – Busch-triton®



6320/10-24G-500

Busch-triton® Control Element, 1/2-fold, FM

With intergrated bus coupling unit. With IR interface for Busch-remote controllers. Push button function: switching/dimming/blind/value sending/light scenes/step-type switch functions. Switch contacts left/right. One freely programmable LED per rocker (red/green/OFF). With labeling field.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
alpha						
platinum	–	6320/10-20-500	2CKA006320A0002		0.154	1
studio white, high gloss	–	6320/10-24G-500	2CKA006320A0004		0.154	1
palladium	–	6320/10-260-500	2CKA006320A0010		0.154	1
impuls						
champagne metallic	–	6320/10-79-500	2CKA006320A0006		0.154	1
future® linear						
aluminium silver	–	6320/10-83-500	2CKA006320A0008		0.154	1



6320/30-24G-500

Busch-triton® Control Element, 3/6-fold, FM

With intergrated bus coupling unit. With IR interface for Busch-remote controllers. Push button function: switching/dimming/blind/value sending/light scenes/step-type switch functions. Switch contacts left/right. One freely programmable LED per rocker (red/green/OFF). With labeling field.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
alpha						
platinum	–	6320/30-20-500	2CKA006320A0012		0.134	1
studio white, high gloss	–	6320/30-24G-500	2CKA006320A0014		0.134	1
palladium	–	6320/30-260-500	2CKA006320A0020		0.134	1
impuls						
champagne metallic	–	6320/30-79-500	2CKA006320A0016		0.134	1
future® linear						
aluminium silver	–	6320/30-83-500	2CKA006320A0018		0.134	1



6320/50-24G-500

Busch-triton® Control Element, 5/10-fold, FM

With intergrated bus coupling unit. With IR interface for Busch-remote controllers. Push button function: switching/dimming/blind/value sending/light scenes/step-type switch functions. Switch contacts left/right. One freely programmable LED per rocker (red/green/OFF). With labeling field.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
alpha						
platinum	–	6320/50-20-500	2CKA006320A0032		0.274	1
studio white, high gloss	–	6320/50-24G-500	2CKA006320A0034		0.274	1
palladium	–	6320/50-260-500	2CKA006320A0040		0.274	1
impuls						
champagne metallic	–	6320/50-79-500	2CKA006320A0036		0.274	1
future® linear						
aluminium silver	–	6320/50-83-500	2CKA006320A0038		0.274	1



6321/38-24G-500

Busch-triton® Control Element with Room Thermostat and 3/6-fold Switch Sensor, FM

With integrated KNX bus coupler. With labelling field. Rocker switch left/right (switching/dimming/blind/value sender/light scenes/fan function). Master/slave configuration. With base-load operation. Control element with room thermostat function for triggering the heating, ventilation and fan-coil actuators. The controller is a constant room temperature controller for ventilator convectors (fan coils) in 2-pipe and 4-pipe systems and conventional heating or cooling systems. The fan stage can be switched manually or in automatic mode. To control up to 13 IR channels (RC5) using Busch-Remote control. IR mobile remote control 6010-25 or 6020-.../6021... . Control element: rocker switch left/right. Display elements: One LED per rocker via separate communication object for status (Red/Green/OFF) or orientation light. Connections: KNX-line: Bus connection terminal. Protection class (Device): IP 20. Temperature range (Device): –5 °C to 45 °C.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
alpha						
platinum	–	6321/38-20-500	2CKA006320A0052		0.169	1
studio white, high gloss	–	6321/38-24G-500	2CKA006320A0054		0.169	1
palladium	–	6321/38-260-500	2CKA006320A0060		0.169	1
impuls						
champagne metallic	–	6321/38-79-500	2CKA006320A0056		0.169	1
future® linear						
aluminium silver	–	6321/38-83-500	2CKA006320A0058		0.169	1

ABB i-bus® KNX

User Operation – Design Ranges – Busch-triton®



6321/58-24G-500

Busch-triton® Control Element with Room Thermostat and 5/10-fold Switch Sensor, FM

With integrated KNX bus coupler. With labelling field. Rocker switch left/right (switching/ dimming/blind/value sender/light scenes/fan function). Master/slave configuration. With base-load operation. Control element with room thermostat function for triggering the heating, ventilation and fan-coil actuators. The controller is a constant room temperature controller for ventilator convectors (fan coils) in 2-pipe and 4-pipe systems and conventional heating or cooling systems. The fan stage can be switched manually or in automatic mode. To control up to 13 IR channels (RC5) using Busch-Remote control IR mobile remote control 6010-25 or 6020-.../6021... . Control element: rocker switch left/right. Display elements: One LED per rocker via separate communication object for status (Red/ Green/ OFF) or orientation light. Connections: KNX-line: Bus connection terminal. Protection class (Device): IP 20. Temperature range (Device): –5 °C to 45 °C. Dimensions: (L x W x D): 159 mm x 90 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
alpha						
platinum	–	6321/58-20-500	2CKA006320A0062		0.278	1
studio white, high gloss	–	6321/58-24G-500	2CKA006320A0064		0.278	1
palladium	–	6321/58-260-500	2CKA006320A0070		0.278	1
impuls						
champagne metallic	–	6321/58-79-500	2CKA006320A0066		0.278	1
future® linear						
aluminium silver	–	6321/58-83-500	2CKA006320A0068		0.278	1



6010-25-500

Infra-Red Hand Held Transmitter

For infra-red receiver and KNX flush-mounted infra-red interface. Switching and dimming of up to 10 consumers in 2 groups (1-5/6-10). Programming and selection of 2 MEMO memories per group is possible. Power supply: 4 alkaline manganese batteries, IEC LR03 (microcell) not included in scope of supply Detection range: frontal 15 m.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6010-25-500	2CKA006020A1133		0.18	1

ABB i-bus® KNX

User Operation – Design Ranges – Push Button Coupling Unit

The push-button coupling unit with a centre position offers maximum flexibility. Installed in a flush-mounted wall box, it accepts switch rockers from conventional switch ranges* like a completely standard flush-mounted insert. Covers from all conventional ranges can now be used for KNX. This offers maximum freedom in the selection of the switch range and makes retrofitting easier.

01



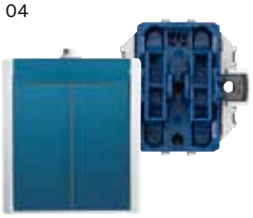
02



03



04



Features
Easy mounting and uncomplicated commissioning
All flush-mounted switch ranges* can be used for the ABB i-bus® KNX
Affordable solution for renovations
Status/orientation light (red/green/OFF)
(only with 1 gang push-button/switches)
Integration in surface-mounted water protected units

01	Push-button coupler 2 gang with integrated bus coupler
02	Push-button coupler 4 gang with integrated bus coupler
03	Push-button coupler 2 gang for ocean with integrated bus coupler
04	Push-button coupler 4 gang for ocean with integrated bus coupler



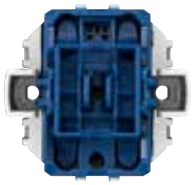
Design without limits. The push-button coupling unit includes the complete range* of switches for KNX. Switch rockers from all switch ranges can now be converted to KNX push buttons, which not only switch on and off but also dim or show the status with an LED (6108/01 and 6108/04 only). 1 gang and 2 gang models for single and 2 gang switch rockers are available.

KNX – water protected
The push-button coupling unit also allows special products to be used for KNX. Special models for water-protected installation allow covers from, for example, the ocean® surface-mounted range to be used. This means that KNX sensors can also be safely installed in a cellar, outside on a patio or in commercial applications.
Temperature range: –25 °C to 45 °C.

*except impuls, basic55® and All Weather 44 Busch-Jaeger switch ranges only available for selected markets. For further information please contact your local ABB office.

ABB i-bus® KNX

User Operation – Design Ranges – Push Button Coupling Unit



6108/06-AP-500

Push-button coupler 2 gang with integrated bus coupler

For contacting conventional 1 gang rocker switches. With middle position. For inserting in the ocean surface-mounted housing. Enclosed mounting plate for the following ranges: Busch-Duro 2000 SI/SI Linear, Reflex SI/SI Linear, future® linear, alpha, solo®, Busch-axcent®, carat® and pure stainless steel. The bus can be connected via enclosed terminal block.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
1/2-fold	–	6108/06-AP-500	2CKA006133A0225		0.1	1
2/4-fold	–	6108/07-AP-500	2CKA006133A0227		0.091	1



6108/06-500

Push-button coupler 2 gang with integrated bus coupler

For contacting 1 gang rocker 6230-10-xxx, 6231-10-xxx, 6232-10-xxx, 6233-10-xxx und 6234-10-xxx. With integrated temperature sensor. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. With middle position. The bus connection is provided via the enclosed bus terminal.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6108/06-500	2CKA006133A0221		0.06	1



SR-1-84

Rocker 1 gang, without printing

As cover for KNX 2 gang push-button coupling unit (6108/06-500).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Reflex SI						
white	–	SR-1-212	2CKA006220A0182		0.017	1
alpine white	–	SR-1-214	2CKA006220A0183		0.017	1
future® linear						
anthracite	–	SR-1-81	2CKA006220A0137		0.017	1
ivory	–	SR-1-82	2CKA006220A0516		0.018	1
aluminium silver	–	SR-1-83	2CKA006220A0138		0.017	1
studio white	–	SR-1-84	2CKA006220A0139		0.017	1
studio white matt	–	SR-1-884	2CKA006220A0601		0.018	1
black, matt	–	SR-1-885	2CKA006220A0618		0.018	1
solo®						
ivory	–	SR-1-82	2CKA006220A0516		0.018	1
studio white	–	SR-1-84	2CKA006220A0139		0.017	1
grey metallic	–	SR-1-803	2CKA006220A0550		0.018	1
Busch-axcent®						
studio white	–	SR-1-84	2CKA006220A0139		0.017	1
pure stainless steel						
stainless steel	–	SR-1-866	2CKA006220A0533		0.016	1
carat®						
anthracite	–	SR-1-81	2CKA006220A0137		0.017	1
ivory	–	SR-1-82	2CKA006220A0516		0.018	1
studio white	–	SR-1-84	2CKA006220A0139		0.017	1
Dynasty®						
anthracite	–	SR-1-81	2CKA006220A0137		0.017	1
ivory	–	SR-1-82	2CKA006220A0516		0.018	1
antique brass	–	SR-1-840	2CKA006220A0371		0.018	1

ABB i-bus® KNX

User Operation – Design Ranges – Push Button Coupling Unit



SRL-1-84

Rocker 1 gang, with “Light” icon

As cover for KNX 2 gang push-button coupling unit (6108/06-500).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Reflex SI						
white	–	SRL-1-212	2CKA006220A0184		0.013	1
alpine white	–	SRL-1-214	2CKA006220A0185		0.013	1
future® linear						
anthracite	–	SRL-1-81	2CKA006220A0140		0.017	1
ivory	–	SRL-1-82	2CKA006220A0517		0.014	1
aluminium silver	–	SRL-1-83	2CKA006220A0141		0.017	1
studio white	–	SRL-1-84	2CKA006220A0142		0.017	1
studio white matt	–	SRL-1-884	2CKA006220A0602		0.018	1
black, matt	–	SRL-1-885	2CKA006220A0619		0.018	1
solo®						
ivory	–	SRL-1-82	2CKA006220A0517		0.014	1
studio white	–	SRL-1-84	2CKA006220A0142		0.017	1
grey metallic	–	SRL-1-803	2CKA006220A0551		0.018	1
Busch-axcent®						
studio white	–	SRL-1-84	2CKA006220A0142		0.017	1
pure stainless steel						
stainless steel	–	SRL-1-866	2CKA006220A0534		0.014	1
carat®						
anthracite	–	SRL-1-81	2CKA006220A0140		0.017	1
ivory	–	SRL-1-82	2CKA006220A0517		0.014	1
studio white	–	SRL-1-84	2CKA006220A0142		0.017	1
Dynasty®						
anthracite	–	SRL-1-81	2CKA006220A0140		0.017	1
ivory	–	SRL-1-82	2CKA006220A0517		0.014	1
antique brass	–	SRL-1-840	2CKA006220A0372		0.018	1



SRB-1-84

Rocker 1 gang, with “Blind” icon

As cover for KNX 2 gang push-button coupling unit (6108/06-500).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Reflex SI						
white	–	SRB-1-212	2CKA006220A0186		0.013	1
alpine white	–	SRB-1-214	2CKA006220A0187		0.013	1
future® linear						
anthracite	–	SRB-1-81	2CKA006220A0143		0.013	1
ivory	–	SRB-1-82	2CKA006220A0518		0.014	1
aluminium silver	–	SRB-1-83	2CKA006220A0144		0.017	1
studio white	–	SRB-1-84	2CKA006220A0145		0.017	1
studio white matt	–	SRB-1-884	2CKA006220A0603		0.018	1
black, matt	–	SRB-1-885	2CKA006220A0620		0.018	1
solo®						
ivory	–	SRB-1-82	2CKA006220A0518		0.014	1
studio white	–	SRB-1-84	2CKA006220A0145		0.017	1
grey metallic	–	SRB-1-803	2CKA006220A0552		0.018	1
Busch-axcent®						
studio white	–	SRB-1-84	2CKA006220A0145		0.017	1
pure stainless steel						
stainless steel	–	SRB-1-866	2CKA006220A0535		0.014	1
carat®						
anthracite	–	SRB-1-81	2CKA006220A0143		0.013	1
ivory	–	SRB-1-82	2CKA006220A0518		0.014	1
studio white	–	SRB-1-84	2CKA006220A0145		0.017	1
Dynasty®						
anthracite	–	SRB-1-81	2CKA006220A0143		0.013	1
ivory	–	SRB-1-82	2CKA006220A0518		0.014	1
antique brass	–	SRB-1-840	2CKA006220A0373		0.018	1

ABB i-bus® KNX

User Operation – Design Ranges – Push Button Coupling Unit



SRS-1-84

Rocker 1 gang, with “Scene” icon

As cover for KNX 2 gang push-button coupling unit (6108/06-500).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Reflex SI						
white	–	SRS-1-212	2CKA006220A0188		0.013	1
alpine white	–	SRS-1-214	2CKA006220A0189		0.013	1
future® linear						
anthracite	–	SRS-1-81	2CKA006220A0146		0.017	1
ivory	–	SRS-1-82	2CKA006220A0519		0.014	1
aluminium silver	–	SRS-1-83	2CKA006220A0147		0.017	1
studio white	–	SRS-1-84	2CKA006220A0148		0.017	1
studio white matt	–	SRS-1-884	2CKA006220A0604		0.018	1
black, matt	–	SRS-1-885	2CKA006220A0621		0.018	1
solo®						
ivory	–	SRS-1-82	2CKA006220A0519		0.014	1
studio white	–	SRS-1-84	2CKA006220A0148		0.017	1
grey metallic	–	SRS-1-803	2CKA006220A0553		0.015	1
Busch-axcent®						
studio white	–	SRS-1-84	2CKA006220A0148		0.017	1
pure stainless steel						
stainless steel	–	SRS-1-866	2CKA006220A0536		0.01	1
carat®						
anthracite	–	SRS-1-81	2CKA006220A0146		0.017	1
ivory	–	SRS-1-82	2CKA006220A0519		0.014	1
studio white	–	SRS-1-84	2CKA006220A0148		0.017	1
Dynasty®						
anthracite	–	SRS-1-81	2CKA006220A0146		0.017	1
ivory	–	SRS-1-82	2CKA006220A0519		0.014	1
antique brass	–	SRS-1-840	2CKA006220A0374		0.018	1



SRD-1-84

Rocker 1 gang, with “Dimmer” icon

As cover for KNX 2 gang push-button coupling unit (6108/06-500).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Reflex SI						
white	–	SRD-1-212	2CKA006220A0190		0.013	1
alpine white	–	SRD-1-214	2CKA006220A0191		0.013	1
future® linear						
anthracite	–	SRD-1-81	2CKA006220A0149		0.017	1
ivory	–	SRD-1-82	2CKA006220A0520		0.014	1
aluminium silver	–	SRD-1-83	2CKA006220A0150		0.017	1
studio white	–	SRD-1-84	2CKA006220A0151		0.017	1
studio white matt	–	SRD-1-884	2CKA006220A0605		0.018	1
black, matt	–	SRD-1-885	2CKA006220A0622		0.018	1
solo®						
ivory	–	SRD-1-82	2CKA006220A0520		0.014	1
studio white	–	SRD-1-84	2CKA006220A0151		0.017	1
grey metallic	–	SRD-1-803	2CKA006220A0554		0.018	1
Busch-axcent®						
studio white	–	SRD-1-84	2CKA006220A0151		0.017	1
pure stainless steel						
stainless steel	–	SRD-1-866	2CKA006220A0537		0.018	1
carat®						
anthracite	–	SRD-1-81	2CKA006220A0149		0.017	1
ivory	–	SRD-1-82	2CKA006220A0520		0.014	1
studio white	–	SRD-1-84	2CKA006220A0151		0.017	1
Dynasty®						
anthracite	–	SRD-1-81	2CKA006220A0149		0.017	1
ivory	–	SRD-1-82	2CKA006220A0520		0.014	1
antique brass	–	SRD-1-840	2CKA006220A0375		0.018	1



6108/07-500

Push-button coupling 4 gang with integrated bus coupler

Support of KNX functions through innovative colour concept yellow = lighting, blue = blind, orange = RTC, magenta = scene and white = neutral/no function assigned) or standard illumination red/green. With middle position. The bus can be connected via enclosed terminal block.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6108/07-500	2CKA006133A0223		0.075	1

ABB i-bus® KNX

User Operation – Design Ranges – Push Button Coupling Unit



SR-2-84



SRB-2-84

Pack unit pc.	Weight 1 pc. kg	Description	Rocker 2 gang left/right, without printing As cover for KNX 4 gang push-button coupling unit (6108/07-500). Order details Type	Order code	Price 1 pc. €	Rocker 2 gang left/right, with "Blind" icon As cover for KNX 4 gang push-button coupling unit (6108/07-500). Order details Type	Order code	Price 1 pc. €
		Reflex SI						
		white	SR-2-212	2CKA006220A0192		SRB-2-212	2CKA006220A0196	
		alpine white	SR-2-214	2CKA006220A0193		SRB-2-214	2CKA006220A0197	
		future® linear						
		anthracite	SR-2-81	2CKA006220A0152		SRB-2-81	2CKA006220A0158	
		ivory	SR-2-82	2CKA006220A0521		SRB-2-82	2CKA006220A0523	
		aluminium silver	SR-2-83	2CKA006220A0153		SRB-2-83	2CKA006220A0159	
		studio white	SR-2-84	2CKA006220A0154		SRB-2-84	2CKA006220A0160	
		studio white matt	SR-2-884	2CKA006220A0606		SRB-2-884	2CKA006220A0608	
		black, matt	SR-2-885	2CKA006220A0623		SRB-2-885	2CKA006220A0625	
		solo®						
		ivory	SR-2-82	2CKA006220A0521		SRB-2-82	2CKA006220A0523	
		studio white	SR-2-84	2CKA006220A0154		SRB-2-84	2CKA006220A0160	
		grey metallic	SR-2-803	2CKA006220A0555		SRB-2-803	2CKA006220A0557	
		Busch-axcent®						
		studio white	SR-2-84	2CKA006220A0154		SRB-2-84	2CKA006220A0160	
		pure stainless steel						
		stainless steel	SR-2-866	2CKA006220A0538		SRB-2-866	2CKA006220A0540	
		carat®						
		anthracite	SR-2-81	2CKA006220A0152		SRB-2-81	2CKA006220A0158	
		ivory	SR-2-82	2CKA006220A0521		SRB-2-82	2CKA006220A0523	
		studio white	SR-2-84	2CKA006220A0154		SRB-2-84	2CKA006220A0160	
		Dynasty®						
		anthracite	SR-2-81	2CKA006220A0152		SRB-2-81	2CKA006220A0158	
		ivory	SR-2-82	2CKA006220A0521		SRB-2-82	2CKA006220A0523	
		antique brass	SR-2-840	2CKA006220A0376		SRB-2-840	2CKA006220A0378	



SRL-2-L-84



SRL-2-R-84

Pack unit pc.	Weight 1 pc. kg	Description	Rocker 2 gang left, with “Light” icon As cover for KNX 4 gang push-button coupling unit (6108/07-500). Order details Type	Order code	Price 1 pc. €	Rocker 2 gang right, with “Light” icon As cover for KNX 4 gang push-button coupling unit (6108/07-500). Order details Type	Order code	Price 1 pc. €
		Reflex SI						
		white	SRL-2-L-212	2CKA006220A0194		SRL-2-R-212	2CKA006220A0202	
		alpine white	SRL-2-L-214	2CKA006220A0195		SRL-2-R-214	2CKA006220A0203	
		future® linear						
		anthracite	SRL-2-L-81	2CKA006220A0155		SRL-2-R-81	2CKA006220A0167	
		ivory	SRL-2-L-82	2CKA006220A0522		SRL-2-R-82	2CKA006220A0527	
		aluminium silver	SRL-2-L-83	2CKA006220A0156		SRL-2-R-83	2CKA006220A0168	
		studio white	SRL-2-L-84	2CKA006220A0157		SRL-2-R-84	2CKA006220A0169	
		studio white matt	SRL-2-L-884	2CKA006220A0607		SRL-2-R-884	2CKA006220A0612	
		black, matt	SRL-2-L-885	2CKA006220A0624		SRL-2-R-885	2CKA006220A0629	
		solo®						
		ivory	SRL-2-L-82	2CKA006220A0522		SRL-2-R-82	2CKA006220A0527	
		studio white	SRL-2-L-84	2CKA006220A0157		SRL-2-R-84	2CKA006220A0169	
		grey metallic	SRL-2-L-803	2CKA006220A0556		SRL-2-R-803	2CKA006220A0561	
		Busch-axcent®						
		studio white	SRL-2-L-84	2CKA006220A0157		SRL-2-R-84	2CKA006220A0169	
		pure stainless steel						
		stainless steel	SRL-2-L-866	2CKA006220A0539		SRL-2-R-866	2CKA006220A0544	
		carat®						
		anthracite	SRL-2-L-81	2CKA006220A0155		SRL-2-R-81	2CKA006220A0167	
		ivory	SRL-2-L-82	2CKA006220A0522		SRL-2-R-82	2CKA006220A0527	
		studio white	SRL-2-L-84	2CKA006220A0157		SRL-2-R-84	2CKA006220A0169	
		Dynasty®						
		anthracite	SRL-2-L-81	2CKA006220A0155		SRL-2-R-81	2CKA006220A0167	
		ivory	SRL-2-L-82	2CKA006220A0522		SRL-2-R-82	2CKA006220A0527	
		antique brass	SRL-2-L-840	2CKA006220A0377		SRL-2-R-840	2CKA006220A0381	

ABB i-bus® KNX

User Operation – Design Ranges – Push Button Coupling Unit



SRS-2-L-84



SRS-2-R-84

Pack unit pc.	Weight 1 pc. kg	Description	Rocker 2 gang left, with “Scene” icon As cover for KNX 4 gang push-button coupling unit (6108/07-500). Order details Type	Order code	Price 1 pc. €	Rocker 2 gang right, with “Scene” icon As cover for KNX 4 gang push-button coupling unit (6108/07-500). Order details Type	Order code	Price 1 pc. €
		Reflex SI						
		white	SRS-2-L-212	2CKA006220A0198		SRS-2-R-212	2CKA006220A0206	
		alpine white	SRS-2-L-214	2CKA006220A0199		SRS-2-R-214	2CKA006220A0207	
		future® linear						
		anthracite	SRS-2-L-81	2CKA006220A0161		SRS-2-R-81	2CKA006220A0173	
		ivory	SRS-2-L-82	2CKA006220A0524		SRS-2-R-82	2CKA006220A0528	
		aluminium silver	SRS-2-L-83	2CKA006220A0162		SRS-2-R-83	2CKA006220A0174	
		studio white	SRS-2-L-84	2CKA006220A0163		SRS-2-R-84	2CKA006220A0175	
		studio white matt	SRS-2-L-884	2CKA006220A0609		SRS-2-R-884	2CKA006220A0613	
		black, matt	SRS-2-L-885	2CKA006220A0626		SRS-2-R-885	2CKA006220A0630	
		solo®						
		ivory	SRS-2-L-82	2CKA006220A0524		SRS-2-R-82	2CKA006220A0528	
		studio white	SRS-2-L-84	2CKA006220A0163		SRS-2-R-84	2CKA006220A0175	
		grey metallic	SRS-2-L-803	2CKA006220A0558		SRS-2-R-803	2CKA006220A0562	
		Busch-axcent®						
		studio white	SRS-2-L-84	2CKA006220A0163		SRS-2-R-84	2CKA006220A0175	
		pure stainless steel						
		stainless steel	SRS-2-L-866	2CKA006220A0541		SRS-2-R-866	2CKA006220A0545	
		carat®						
		anthracite	SRS-2-L-81	2CKA006220A0161		SRS-2-R-81	2CKA006220A0173	
		ivory	SRS-2-L-82	2CKA006220A0524		SRS-2-R-82	2CKA006220A0528	
		studio white	SRS-2-L-84	2CKA006220A0163		SRS-2-R-84	2CKA006220A0175	
		Dynasty®						
		anthracite	SRS-2-L-81	2CKA006220A0161		SRS-2-R-81	2CKA006220A0173	
		ivory	SRS-2-L-82	2CKA006220A0524		SRS-2-R-82	2CKA006220A0528	
		antique brass	SRS-2-L-840	2CKA006220A0379		SRS-2-R-840	2CKA006220A0382	



SRD-2-L-84



SRD-2-R-84

			Rocker 2 gang left, with “Dimmer” icon As cover for KNX 4 gang push-button coupling unit (6108/07-500).			**Rocker 2 gang right, with “Dimmer” icon** As cover for KNX 4 gang push-button coupling unit (6108/07-500).		
Pack unit pc.	**Weight 1 pc. kg**	**Description**	**Order details**		**Price 1 pc.**	**Order details**		**Price 1 pc.**
			Type	**Order code**	**€**	**Type**	**Order code**	**€**
		Reflex SI						
		white	SRD-2-L-212	2CKA006220A0200		SRD-2-R-212	2CKA006220A0261	
		alpine white	SRD-2-L-214	2CKA006220A0201		SRD-2-R-214	2CKA006220A0262	
		future® linear						
		anthracite	SRD-2-L-81	2CKA006220A0164		SRD-2-R-81	2CKA006220A0258	
		ivory	SRD-2-L-82	2CKA006220A0525		SRD-2-R-82	2CKA006220A0526	
		aluminium silver	SRD-2-L-83	2CKA006220A0165		SRD-2-R-83	2CKA006220A0259	
		studio white	SRD-2-L-84	2CKA006220A0166		SRD-2-R-84	2CKA006220A0260	
		studio white matt	SRD-2-L-884	2CKA006220A0610		SRD-2-R-884	2CKA006220A0611	
		black, matt	SRD-2-L-885	2CKA006220A0627		SRD-2-R-885	2CKA006220A0628	
		solo®						
		ivory	SRD-2-L-82	2CKA006220A0525		SRD-2-R-82	2CKA006220A0526	
		studio white	SRD-2-L-84	2CKA006220A0166		SRD-2-R-84	2CKA006220A0260	
		grey metallic	SRD-2-L-803	2CKA006220A0559		SRD-2-R-803	2CKA006220A0560	
		Busch-axcent®						
		studio white	SRD-2-L-84	2CKA006220A0166		SRD-2-R-84	2CKA006220A0260	
		pure stainless steel						
		stainless steel	SRD-2-L-866	2CKA006220A0542		SRD-2-R-866	2CKA006220A0543	
		carat®						
		anthracite	SRD-2-L-81	2CKA006220A0164		SRD-2-R-81	2CKA006220A0258	
		ivory	SRD-2-L-82	2CKA006220A0525		SRD-2-R-82	2CKA006220A0526	
		studio white	SRD-2-L-84	2CKA006220A0166		SRD-2-R-84	2CKA006220A0260	
		Dynasty®						
		anthracite	SRD-2-L-81	2CKA006220A0164		SRD-2-R-81	2CKA006220A0258	
		ivory	SRD-2-L-82	2CKA006220A0525		SRD-2-R-82	2CKA006220A0526	
		antique brass	SRD-2-L-840	2CKA006220A0380		SRD-2-R-840	2CKA006220A0383	

ABB i-bus® KNX

User Operation – Design Ranges



6108/60-500

Control Element, 6 gang with Universal Input, 5 gang

Control element with a maximum of 6 control functions and an RTC extension unit (slave). Primary function for calling up the main function. Status bar for indication/display of operating or RTC functions. Operation is carried out via cover plate 6108/61-xxx. With actual value temperature display. With display of set-value temperature. With universal input with: - max. of 5 binary inputs - 4 binary inputs and 1 analogue input for activating sensors with external power supply 1-10 V/0-10 V - 2 binary inputs and 1 analogue input for activating sensors with external power supply 1-10 V/0-10 V and an external temperature sensor PT1000 / T6226. The bus can be connected via enclosed terminal block.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6108/60-500	2CKA006115A0454			1



6108/61-212-500

Cover Plate for KNX Control Element, 7 gang

As cover for control element, 7 gang (6108/60).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	6108/61-212-500	2CKA006115A0474		0.012	1
alpine white	–	6108/61-214-500	2CKA006115A0475		0.012	1
platinum	–	6108/61-20-500	2CKA006115A0476		0.016	1
bronze	–	6108/61-21-500	2CKA006115A0477		0.016	1
ivory/white	–	6108/61-22G-500	2CKA006115A0478		0.016	1
studio white	–	6108/61-24G-500	2CKA006115A0480		0.016	1
palladium	–	6108/61-260-500	2CKA006115A0481		0.016	1
titanium	–	6108/61-266-500	2CKA006115A0482		0.016	1
anthracite	–	6108/61-81-500	2CKA006115A0483		0.018	1
ivory white	–	6108/61-82-500	2CKA006115A0484		0.018	1
aluminium silver	–	6108/61-83-500	2CKA006115A0485		0.018	1
studio white	–	6108/61-84-500	2CKA006115A0486		0.018	1
studio white matt	–	6108/61-884-500	2CKA006115A0487		0.018	1
black matt	–	6108/61-885-500	2CKA006115A0488		0.018	1
grey metallic	–	6108/61-803-500	2CKA006115A0489		0.02	1
stainless steel	–	6108/61-866-500	2CKA006115A0492		0.018	1



6108/61-914

Cover Plate, Control Element, 7 gang

As cover for control element, 7 gang (6108/60).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	6108/61-914	2CKA006155A0115			1
stainless steel	–	6108/61-840-500	2CKA006155A0121		0.018	1



6109/05-500

Room Temperature Controller with 5 gang Universal Input, FM

Room temperature controller without “local control” and without internal temperature sensor. With universal input with: - max. of 5 binary inputs - 4 binary inputs and 1 analogue input for activating sensors with external power supply 1-10 V/0-10 V - 2 binary inputs and 1 analogue input for activating sensors with external power supply 1-10 V/0-10 V and an external temperature sensor PT1000 / T6226. Master/slave configuration. With base-load operation. The bus can be connected via enclosed terminal block. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6109/05-500	2CKA006181A0013		0.08	1



6109/08-500

Room Temperature Controller, Commercial, with 5 gang Universal Input, FM

Room thermostat without “local control” incl. insert for centre plate for cooling element. With universal input with: - max. of 5 binary inputs - 4 binary inputs and 1 analogue input for activating sensors with external power supply 1-10 V/0-10 V - 2 binary inputs and 1 analogue input for activating sensors with external power supply 1-10 V/0-10 V and an external temperature sensor PT1000 / T6226. Can only be used with a cover plate 2114-xxx or 6541-xxx, with the exception of 6541-20. -21.-260 and -266. Master/slave configuration. With base-load operation. The bus can be connected via enclosed terminal block. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6109/08-500	2CKA006134A0313		0.138	1

ABB i-bus® KNX

User Operation – Design Ranges



6541-84

Cover Plate for Room Temperature Controller, Commercial

For room temperature controller, commercial.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
future® linear						
anthracite	–	6541-81	2CKA006599A2882		0.022	10
savanna/ivory	–	6541-82	2CKA006599A2832		0.022	10
aluminium silver [1]	–	6541-83	2CKA006599A2885		0.022	10
davos/studio white	–	6541-84	2CKA006599A2835		0.022	10
studio white, matt [1]	–	6541-884	2CKA006599A2962		0.022	10
black matt [1]	–	6541-885	2CKA006599A2967		0.022	10
solo®						
savanna/ivory	–	6541-82	2CKA006599A2832		0.022	10
davos/studio white	–	6541-84	2CKA006599A2835		0.022	10
meteor/grey metallic [1]	–	6541-803	2CKA006599A2940		0.022	10
carat®						
anthracite	–	6541-81	2CKA006599A2882		0.022	10
savanna/ivory	–	6541-82	2CKA006599A2832		0.022	10
davos/studio white	–	6541-84	2CKA006599A2835		0.022	10
pure stainless steel [1]						
stainless steel	–	6541-866	2CKA006599A2924		0.018	10
Busch-axcent®						
davos/studio white	–	6541-84	2CKA006599A2835		0.022	10
alpha						
ivory	–	6541-22G	2CKA006599A2795		0.02	10
studio white, matt	–	6541-24	2CKA006599A1557		0.02	10
studio white, high gloss	–	6541-24G	2CKA006599A2332		0.02	10
Platinum	–	6541-20	2CKA006599A1466		0.02	10
Bronze	–	6541-21	2CKA006599A1524		0.02	10
palladium	–	6541-260	2CKA006599A2853		0.02	10
titanium	–	6541-266	2CKA006599A2856		0.02	10
impuls						
alpine white	–	6541-74	2CKA006599A2076		0.019	
champagne metallic	–	6541-79	2CKA006599A2142		0.019	
ivory	–	6541-72	2CKA006599A2918		0.019	
studio white matt	–	6541-774	2CKA006599A2971		0.019	
black matt	–	6541-775	2CKA006599A2975		0.019	
aluminium silver	–	6541-783	2CKA006599A2919		0.019	
Busch-Duro 2000® SI						
white (SI-Series)	–	2114-212	2CKA006599A1193		0.016	10

[1] Surface painted



2114-214

Cover Plate for Temperature Controller, Commercial

For room temperature controller, commercial.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Reflex SI						
alpine white (SI-Series)	–	2114-214-500	2CKA006599A3008		0.02	10

ABB i-bus® KNX

User Operation – Design Ranges – Room Temperature Controller



6108/18-500

Room thermostat, heating/cooling operation

Control element with room thermostat function for triggering the heating, ventilation and fan-coil actuators. For controlling commercially available valve drives. With display of set-value temperature. Master/slave configuration. With base-load operation. The bus can be connected via enclosed terminal block.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6108/18-500	2CKA006134A0319		0.08	1



CP-FCC-212

Cover plate for fan coil controller

As cover for ABB-free@home® room temperature controller RTC-F-1. As cover for KNX room temperature controller (6108/18-500).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Reflex SI						
white	–	CP-FCC-212	2CKA006220A0245		0.012	1
alpine white	–	CP-FCC-214	2CKA006220A0246		0.012	1
future® linear						
anthracite	–	CP-FCC-81	2CKA006220A0242		0.016	1
ivory	–	CP-FCC-82	2CKA006220A0532		0.016	1
aluminium silver	–	CP-FCC-83	2CKA006220A0243		0.016	1
studio white	–	CP-FCC-84	2CKA006220A0244		0.015	1
studio white matt	–	CP-FCC-884	2CKA006220A0617		0.016	1
black, matt	–	CP-FCC-885	2CKA006220A0634		0.016	1
solo®						
ivory	–	CP-FCC-82	2CKA006220A0532		0.016	1
studio white	–	CP-FCC-84	2CKA006220A0244		0.015	1
grey metallic	–	CP-FCC-803	2CKA006220A0566		0.016	1
Busch-axcent®						
studio white	–	CP-FCC-84	2CKA006220A0244		0.015	1
pure stainless steel						
stainless steel	–	CP-FCC-866	2CKA006220A0549		0.016	1
carat®						
anthracite	–	CP-FCC-81	2CKA006220A0242		0.016	1
ivory	–	CP-FCC-82	2CKA006220A0532		0.016	1
studio white	–	CP-FCC-84	2CKA006220A0244		0.015	1
Dynasty®						
anthracite	–	CP-FCC-81	2CKA006220A0242		0.016	1
ivory	–	CP-FCC-82	2CKA006220A0532		0.016	1



6109/18-500

Room temperature controller with 5 gang universal input, FM

Control element with room thermostat function for triggering the heating, ventilation and fan-coil actuators. With display of set-value temperature, master/slave configuration and base load operation. With universal inputs: a) max. of 5 binary inputs b) 4 binary inputs and 1 analogue input for activating sensors with external power supply 1 – 10 V/0 – 10 V or c) 2 binary inputs and 1 analogue input for activating sensors with external power supply 1 – 10 V/0 – 10 V and an external temperature sensor PT1000/T6226.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6109/18-500	2CKA006134A0315		0.144	1



6109/28-500

Room temperature controller with CO_2/moisture sensor, FM

Control element with room thermostat function and CO_2 moisture/air pressure sensor or triggering the heating, ventilation and fan-coil actuators. With display of set-value temperature, master/slave configuration and base load operation. With universal inputs:
a) max. of 5 binary inputs b) 4 binary inputs and 1 analogue input for activating sensors with external power supply 1 – 10 V/0 – 10 V or c) 2 binary inputs and 1 analogue input for activating sensors with external power supply 1 – 10 V/0 – 10 V and an external temperature sensor PT1000/T6226.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6109/28-500	2CKA006134A0317		0.122	1

ABB i-bus® KNX

User Operation – Design Ranges – Room Temperature Controller



6109/03-214-500

Cover plate for room temperature controller or room temperature controller with CO_2/moisture future® linear
As cover for room temperature controller with/without CO_2/moisture sensor (6109/18 and 6109/28).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Reflex SI						
white	–	6109/03-212-500	2CKA006155A0051		0.018	1
alpine white	–	6109/03-214-500	2CKA006155A0052		0.018	1
future® linear						
anthracite	–	6109/03-81-500	2CKA006155A0060		0.018	1
ivory/white	–	6109/03-82-500	2CKA006155A0061		0.018	1
aluminium silver	–	6109/03-83-500	2CKA006155A0062		0.018	1
studio white	–	6109/03-84-500	2CKA006155A0063		0.018	1
studio white matt	–	6109/03-884-500	2CKA006155A0064		0.018	1
black, matt	–	6109/03-885-500	2CKA006155A0065		0.018	1
solo®						
ivory/white	–	6109/03-82-500	2CKA006155A0061		0.018	1
studio white	–	6109/03-84-500	2CKA006155A0063		0.018	1
grey metallic	–	6109/03-803-500	2CKA006155A0066		0.018	1
Busch-axcent®						
studio white	–	6109/03-84-500	2CKA006155A0063		0.018	1
pure stainless steel						
stainless steel	–	6109/03-866-500	2CKA006155A0069		0.018	1
carat®						
anthracite	–	6109/03-81-500	2CKA006155A0060		0.018	1
ivory/white	–	6109/03-82-500	2CKA006155A0061		0.018	1
studio white	–	6109/03-84-500	2CKA006155A0063		0.018	1
Dynasty®						
anthracite	–	6109/03-81-500	2CKA006155A0060		0.018	1
ivory/white	–	6109/03-82-500	2CKA006155A0061		0.018	1
antique brass	–	6109/03-840-500	2CKA006155A0114		0.018	1

Notes

ABB i-bus® KNX

User Operation – Design Ranges – Millenium

The Millenium collection is the first metal range to incorage the KNX system, the most intelligent way of managing spaces and optimizing performance in terms of energy savings. Millenium is based on a combinable concept which creates a very comprehensive range, suitable for any types of needs. This makes it the ideal collection for all types of homes, hotels, offices and shops.





01	Switch Sensor 2 gang KNX
02	Switch Sensor 4 gang KNX
03	Switch Sensor 6 gang KNX
04	Switch Sensor 6 gang KNX with IR
05	Busch watchdog 180° KNX
06	Room Thermostat KNX

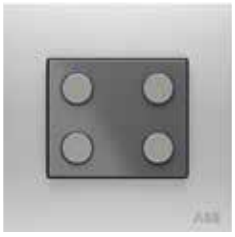
01



Function
Switching | Dimming | Blinds | Sending values | Scenes etc.

Features
Incl. 10 logic channels (light scene actuator | sequence actuator | logic gates, etc.)
Control element: Switch contacts
Display elements: LED to indicate the function

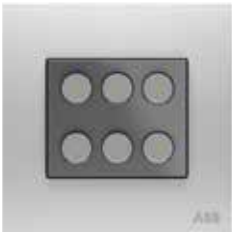
02



Function
Switching | Dimming | Blinds | Sending values | Scenes etc.

Features
Incl. 10 logic channels (light scene actuator | sequence actuator | logic gates, etc.)
Control element: Switch contacts
Display elements: LED to indicate the function

03



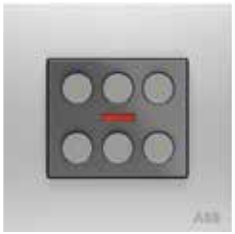
Function
Switching | Dimming | Blinds | Sending values | Scenes etc.

Features
Incl. 10 logic channels (light scene actuator | sequence actuator | logic gates, etc.)
Control element: Switch contacts
Display elements: LED to indicate the function

Wide range. Millenium range offers special mounting plates for KNX sensors to reduce the height and improve the aesthetics for ultra slim design. The KNX sensors allow to replace the buttons with desired symbols in order to adjust the sensors to specific design and needs like light, blind, scene, RTC or fan coil. Millenium offers a wide and elegant choice of finishes in stainless steel material: from the Brush Stainless Steel, to the soft touch given by the Silk Black, and the luxury of the sophisticated gold finishes, Matt Gold and Antique Gold. Moreover, the range is now extended with two glass colors: White and Black glass to cater the luxury segment.



04



Function
Switching | Dimming | Blinds | Sending values | Scenes etc. | 6 gang sensor with IR.

Features
Incl. 10 logic channels (light scene actuator | sequence actuator | logic gates, etc.)
Control element: Switch contacts
Display elements: LED to indicate the function

05



Function
Movement sensor with up to four channels.
Detection range: frontal: 6 m, lateral: 6 m
Detection angle: 180 °
Brightness limit value:
5 Lux - 150 Lux
Mounting height: 1.1 m

06



Function
Control element with room thermostat function for triggering the heating, ventilation and fan-coil actuators. The controller is a thermostat for Fan Coil units in 2- and 4-pipe systems and conventional heating or cooling systems. The fan stage can be switched manually or in automatic mode.

Features
Incl. 10 logic channels (light scene actuator | sequence actuator | logic gates, etc.)

Switch contacts for operating mode selection and dial for setpoint or fan speed adjustment.
Display elements: LCD showing operation modes.
Protection class (Device): IP 20
Temperature range (Device): –5 °C to 45 °C

The Millenium range is only available in the following countries: China, Dubai, India, Kuweit, Oman, Qatar, Saudi Arabia, Singapore, UAE and UK.
Frames and special mounting plates for KNX sensores have to ordered by:
ABB, S.A.
Low Voltage Products-Niessen, Oiartzun / Spain
www.abb.es/niessen

ABB i-bus® KNX

User Operation – Design Ranges – Millenium



6125/20-981-500

Switch Sensor 2 gang KNX

Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.).
Control element: Switch contacts. Display elements: LED to indicate the function.
Protection class (Device): IP 20. Temperature range (Device): –5 °C to 45 °C.
Dimensions: (L x W x D): 53 mm x 44 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6125/20-981-500	2CKA006115A0443		0.083	1



6126/20-981-500

Switch Sensor 4 gang KNX

Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.).
Control element: Switch contacts. Display elements: LED to indicate the function.
Protection class (Device): IP 20. Temperature range (Device): –5 °C to 45 °C.
Dimensions: (L x W x D): 53 mm x 44 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6126/20-981-500	2CKA006116A0218		0.084	1



6129/20-981-500

Switch Sensor 6 gang KNX

Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.).
Control element: Switch contacts. Display elements: LED to indicate the function.
Protection class (Device): IP 20. Temperature range (Device): –5 °C to 45 °C.
Dimensions: (L x W x D): 53 mm x 44 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6129/20-981-500	2CKA006118A0104		0.085	1



6129/21-981-500

Switch Sensor 6 gang KNX with IR

Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.).
Control element: Switch contacts. Display elements: LED to indicate the function.
Protection class (Device): IP 20. Temperature range (Device): –5 °C to 45 °C.
Dimensions: (L x W x D): 53 mm x 44 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6129/21-981-500	2CKA006118A0107		0.086	1



6122/20-981-500

Busch-Watchdog 180 flush mounted standard sensor
Movement sensor with up to four channels. Detection range: frontal: 6 m, lateral: 6 m. Detection angle: 180 °. Brightness limit value: 5 Lux – 150 Lux. Mounting height: 1.1 m Protection class (Device): IP 20. Temperature range (Device): –5 °C to 45 °C. Dimensions: (L x W x D): 53 mm x 44 mm. Position for installation: vertical.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6122/20-981-500	2CKA006132A0306		0.084	1



6124/08-981-500

Room Thermostat
Control element with room thermostat function for triggering the heating, ventilation and fan-coil actuators. The controller is a thermostat for Fan Coil units in 2- and 4-pipe systems and conventional heating or cooling systems. The fan stage can be switched manually or in automatic mode. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.).
Switch contacts for operating mode selection and dial for setpoint or fan speed adjustment. Display elements: LCD showing operation modes. Protection class (Device): IP 20. Temperature range (Device): –5 °C to 45 °C. Dimensions: (L x W x D): 53 mm x 44 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6124/08-981-500	2CKA006134A0309		0.101	1



Buttons with symbols
Buttons with symbols for Millenium control covers 1 / 2-gang, 2 / 4-gang, 3 / 6-gang and 3 / 6-gang with infrared.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Symbol for marking “Light”	–	6123/20-500	2CKA006123A0001		0.011	1
Symbol for marking “blinds”	–	6123/21-500	2CKA006123A0002		0.011	1
Symbol for marking “scene”	–	6123/22-500	2CKA006123A0003		0.011	1
Symbol for marking “temperature”	–	6123/23-500	2CKA006123A0004		0.011	1
Symbol for marking “ceiling light”	–	6123/24-500	2CKA006123A0005		0.003	1
Symbol for marking “Fan Coil”	–	6123/26-500	2CKA006123A0006		0.003	1

ABB i-bus® KNX

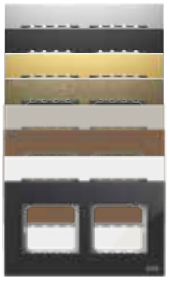
User Operation – Design Ranges – Millenium



Triple rocker / KNX frame 1 gang

Frame includes metal mounting plate. Dimensions 86 x 86 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Stainless Steel	–	AMD5153-ST	2CLA637100N1101		0.109	10
Silk Black	–	AMD5153-SB	2CLA637100N1501		0.111	10
Antique Gold	–	AMD5153-AG	2CLA637100N1601		0.111	10
Matt Gold	–	AMD5153-MG	2CLA637100N1701		0.111	10
Dune Sand	–	AMD5153-DU	2CLA637100N6201		0.111	10
Mocha Brown	–	AMD5153-MO	2CLA637100N6601		0.111	10
White Glass	–	AMD5153-WG	2CLA637100N3001		0.205	10
Black Glass	–	AMD5153-BG	2CLA637100N3101		0.205	10



Triple rocker / KNX frame 2 gang

Frame includes metal mounting plate. Dimensions 86 x 147 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Stainless Steel	–	AMD5253-ST	2CLA667200N1101		0.177	10
Silk Black	–	AMD5253-SB	2CLA667200N1501		0.177	10
Antique Gold	–	AMD5253-AG	2CLA667200N1601		0.176	10
Matt Gold	–	AMD5253-MG	2CLA667200N1701		0.178	10
Dune Sand	–	AMD5253-DU	2CLA637200N6201		0.177	10
Mocha Brown	–	AMD5253-MO	2CLA637200N6601		0.177	10
White Glass	–	AMD5253-WG	2CLA637200N3001		0.315	5
Black Glass	–	AMD5253-BG	2CLA637200N3101		0.315	5



AMD5053

Special metal mounting plate for KNX sensors

Allows reduction height of KNX sensors to 1 mm. Only for following items: AMD72053-AN, AMD74053-AN, AMD76053-AN, AMD76153-AN.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Special metal mounting plate for KNX sensors 1 gang	–	AMD5053	2CLA627190N1001		0.032	1



TR/U 1.1

Transponder Reader, Millenium

The “transponder reader” is a flush-mounting device for British Standard wall boxes, designed to realize access control systems with a communication support based on KNX bus. It is equipped with one relay (4A @24 V AC/DC) and one input to be used for connecting external conventional card-holder (e.g. Millenium wiring accessories card-holder). The output can be programmed in three different ways: “Linked to access control”, receiving in this case switching commands from the device itself (according to transponder card validation); being a standard KNX Switch actuator output, able to be controlled by every KNX-standard devices; “linked to card-holder”, that means that the relay is switched according to closing/opening internal input contact available on transponder reader. The bicolor (red-green) LED placed on the front of the device allow you to monitor device operation and can be also switched ON/OFF in the proper color according to KNX telegram (for example for DND/MUR purposes).
The transponder reader requires a 12...24 V AC/DC external power supply to ensure its operation even with bus voltage failure.
The transponder reader is available for ABB Millenium wiring accessories range.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	TR/U 1.1	2CSY235683R2001		0.050	1



TH/U 1.1

Transponder Holder, Millenium

The “transponder holder” is a flush-mounting device for British Standard wall boxes, designed to realize access control systems with a communication support based on KNX bus. It is equipped with one relay (4A @24V AC/DC) and one binary input to be used for connecting external conventional push-button for switch, dimmer and shutter functionalities, or for example for connecting window contact or similar. The output can be programmed as “Linked to access control”, receiving in this case switching commands from the device itself (according to card insertion/removal); or being a standard KNX Switch actuator output, able to be controlled by every KNX-standard devices. The bicolor (red-green) LED placed on the front of the device allow you to monitor device operation and can be also switched ON/OFF in the proper color according to KNX.
The transponder reader requires a 12...24 V AC/DC external power supply to ensure its operation even with bus voltage failure.
The transponder reader is available for ABB Millenium wiring accessories range.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	TH/U 1.1	2CSY265232R2021		0.018	1

ABB i-bus® KNX

User Operation – Design Ranges – Millenium



TS/T 1
TS/T 1.1

Set of Transponder Cards for Millenium, Chiara 2 modules and tacteo design programs

The transponder card uses passive transponder technology operating in radio frequency (MIFARE technology), without the need for contact between the reader and the card itself. The transponder card is read by swiping it in front of the reader at a maximum distance of 20 mm (can be reduced according to installation environment).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
10 transponder cards	–	TS/T 1	2CSY259412R2041		0.02	1
1000 transponder cards	–	TS/T 1.1	2CSY232175R2041		1	1



RoomGuard software

RoomGuard software **NEW**

RoomGuard software for configuration and supervision of ABB Access Control range; Tacteo, Millenium, Zenit, Chiara, and Mylos.
RoomGuard is a web-based scalable solution (licensing model based on number of rooms) accessible by any browser providing greater accessibility for hotel and maintenance staff. Main features and functionality include: Access control (management of keys, groups, time bands and staff cards, definition of access to common areas, and more), room state monitoring, guest check in/check out, front desk room load monitoring, management of guest and employee databases, Occupancy and access records and statistics, front desk management of room climate, and maintenance and diagnostics. RoomGuard features an intuitive and easy to use interface, with straightforward installation and configuration, seamless integration with building automation and third-party software integration.
RoomGuard software replaces MiniMAC software.
Available December 2022

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
RoomGuard software, 10 readers/rooms	–	RoomGuard-10	2CSY247450R0010		–	1
RoomGuard software, 20 readers/rooms	–	RoomGuard-20	2CSY244490R0020		–	1
RoomGuard software, 50 readers/rooms	–	RoomGuard-50	2CSY249580R0050		–	1
RoomGuard software, 100 readers/rooms	–	RoomGuard-100	2CSY242150R0100		–	1
RoomGuard software, 200 readers/rooms	–	RoomGuard-200	2CSY247240R0200		–	1
RoomGuard software, PMS interface	–	RoomGuard-PMS	2CSY244280R0999		–	1

Notes

ABB i-bus® KNX

User Operation – Design Ranges – Zenit





01	Switch Sensor 2 gang KNX
02	Switch Sensor 4 gang KNX
03	Switch Sensor 6 gang KNX
04	Switch Sensor 6 gang KNX with IR
05	Busch watchdog 180° KNX
06	Room Thermostat KNX

01



Function
Switching | Dimming | Blinds | Sending values | Scenes etc.

Features
Incl. 10 logic channels (light scene actuator | sequence actuator | logic gates, etc.)
Control element: Switch contacts
Display elements: LED to indicate the function

02



Function
Switching | Dimming | Blinds | Sending values | Scenes etc.

Features
Incl. 10 logic channels (light scene actuator | sequence actuator | logic gates, etc.)
Control element: Switch contacts
Display elements: LED to indicate the function

03



Function
Switching | Dimming | Blinds | Sending values | Scenes etc.

Features
Incl. 10 logic channels (light scene actuator | sequence actuator | logic gates, etc.)
Control element: Switch contacts
Display elements: LED to indicate the function

Zenit is based on a combinable concept which creates a very comprehensive range, suitable for any type of needs. Optimizing comfort, safety and efficiency of homes and buildings: Providing with complete comfort solutions to satisfy all type of needs and projects. Ensuring safety and protection of persons and goods. Saving energy by using only the amount of energy required.

Zenit offers two different mounting plates for KNX sensors corresponding to different market standards: VDE and NEMA.





04



Function
Switching | Dimming | Blinds | Sending values | Scenes etc. | 6 gang sensor with IR.

Features
Incl. 10 logic channels (light scene actuator | sequence actuator | logic gates, etc.)
Control element: Switch contacts
Display elements: LED to indicate the function

05



Function
Movement sensor with up to four channels.
Detection range: frontal: 6 m, lateral: 6 m
Detection angle: 180 °
Brightness limit value: 5 Lux - 150 Lux
Mounting height: 1.1 m

06



Function
Control element with room thermostat function for triggering the heating, ventilation and fan-coil actuators. The controller is a thermostat for Fan Coil units in 2- and 4-pipe systems and conventional heating or cooling systems. The fan stage can be switched manually or in automatic mode.

The Zenit VDE range is only available in the following countries:
Spain, Portugal, Russia, France
The Zenit NEMA range is only available in the following countries:
Latin America, Australia, Thailand, Vietnam.
Sensors, frames and special mounting plates for KNX sensores have to ordered by:
ABB, S.A.
Low Voltage Products-Niessen, Oiartzun / Spain
www.abb.es/niessen

Features
Incl. 10 logic channels (light scene actuator | sequence actuator | logic gates, etc.)
Switch contacts for operating mode selection and dial for setpoint or fan speed adjustment.
Display elements: LCD showing operation modes.
Protection class (Device): IP 20
Temperature range (Device): –5 °C to +45 °C

ABB i-bus® KNX

User Operation – Design Ranges – Zenit



6125/98-509

1/2-fold sensor

Push switch function: switching / dimming / blind / sending values / scenes etc. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). Control element: Switch contacts. Display elements: LED to indicate the function.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6125/98-509	2CKA006115A0444		0.077	1



N2221.2

Cover Zenit 1/2-fold

Cover Zenit 1/2-fold. Available in white (BL), anthracite (AN) and silver (PL).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2221.2 BL	2CLA222120N1101		0.038	1
anthracite	–	N2221.2 AN	2CLA222120N1801		0.038	1
silver	–	N2221.2 PL	2CLA222120N1301		0.038	1

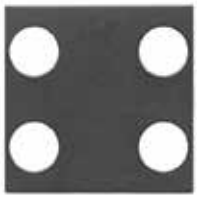


6126/98-509

2/4-fold sensor

Push switch function: switching / dimming / blind / sending values / scenes etc. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). Control element: Switch contacts. Display elements: LED to indicate the function.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6126/98-509	2CKA006116A0219		0.079	1



N2221.4

Cover Zenit 2/4-fold

Cover Zenit 2/4-fold. Available in white (BL), anthracite (AN) and silver (PL).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2221.4 BL	2CLA222140N1101		0.038	1
anthracite	–	N2221.4 AN	2CLA222140N1801		0.038	1
silver	–	N2221.4 PL	2CLA222140N1301		0.038	1



6129/96-509

3/6-fold sensor

Push switch function: switching / dimming / blind / sending values / scenes etc. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.)
Control element: Switch contacts. Display elements: LED to indicate the function. Protection class (Device): IP 20. Temperature range (Device): –5 °C to 45 °C.
Dimensions: (L x W x D): 44 mm x 44 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6129/96-509	2CKA006118A0105		0.08	1



N2221.6

Cover Zenit 3/6-fold

Cover Zenit 3/6-fold. Available in white (BL), anthracite (AN) and silver (PL).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2221.6 BL	2CLA222160N1101		0.011	1
anthracite	–	N2221.6 AN	2CLA222160N1801		0.011	1
silver	–	N2221.6 PL	2CLA222160N1301		0.011	1



6129/98-509

3/6-fold sensor with IR

Push switch function: switching / dimming / blind / sending values / scenes etc. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). With infrared.
Control element: Switch contacts. Display elements: LED to indicate the function.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6129/98-509	2CKA006118A0108		0.088	1



N2221.7

Cover Zenit 3/6-fold with IR

Cover Zenit 3/6-fold with IR. Available in white (BL), anthracite (AN) and silver (PL).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2221.7 BL	2CLA222170N1101		0.011	1
anthracite	–	N2221.7 AN	2CLA222170N1801		0.011	1
silver	–	N2221.7 PL	2CLA222170N1301		0.011	1

ABB i-bus® KNX

User Operation – Design Ranges – Zenit



6124/88-509

Room thermostat heating / cooling Fan Coil

Control element with room thermostat function for triggering the heating, ventilation and fan-coil actuators. The controller is a thermostat for Fan Coil units in 2 - and 4-pipe systems and conventional heating or cooling systems. The fan stage can be switched manually or in automatic mode. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). Switch contacts for operating mode selection and dial for setpoint or fan speed adjustment. Display elements: LCD showing operation modes.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6124/88-509	2CKA006134A0310		0.096	1



N2240.4

Cover Zenit room thermostat

Cover Zenit room thermostat. Available in white (BL), anthracite (AN) and silver (PL).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2240.4 BL	2CLA224040N1101		0.028	1
anthracite	–	N2240.4 AN	2CLA224040N1801		0.028	1
silver	–	N2240.4 PL	2CLA224040N1301		0.028	1



6122/98-509

Watchdog 180 flush mounted

Movement sensor with up to four channels. Detection range: frontal: 6 m, lateral: 6 m. Detection angle: 180 °. Brightness limit value: 5 Lux – 150 Lux. Mounting height: 1.1 m.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6122/98-509	2CKA006132A0307		0.09	1



N2241.4

Cover Zenit watchdog

Cover Zenit watchdog. Available in white (BL), anthracite (AN) and silver (PL).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2241.4 BL	2CLA224140N1101		0.011	1
anthracite	–	N2241.4 AN	2CLA224140N1801		0.011	1
silver	–	N2241.4 PL	2CLA224140N1301		0.01	1



Buttons with symbols

Buttons with symbols for Zenit control covers 1 / 2-gang, 2 / 4-gang, 3 / 6-gang and 3 / 6-gang with infrared.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Symbol for marking “Light”	–	6123/20-500	2CKA006123A0001		0.011	10
Symbol for marking “blinds”	–	6123/21-500	2CKA006123A0002		0.011	10
Symbol for marking “scene”		6123/22-500	2CKA006123A0003		0.011	10
Symbol for marking “temperature”	–	6123/23-500	2CKA006123A0004		0.011	10
Symbol for marking “ceiling light”	–	6123/24-500	2CKA006123A0005		0.003	10
Symbol for marking “Fan Coil”	–	6123/26-500	2CKA006123A0006		0.003	10

N2271 XX

Frames, 1 window, Zenit VDE

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2271 BL	2CLA227100N1102		0.032	1
silver	–	N2271 PL	2CLA227100N1302		0.03	1
anthracite	–	N2271 AN	2CLA227100N1802		0.03	1
champagne	–	N2271 CV	2CLA227100N1902		0.031	1
wengué	–	N2271 WG	2CLA227100N2102		0.043	1
slate	–	N2271 PZ	2CLA227100N2202		0.92	1
white glass	–	N2271 CB	2CLA227100N3002		0.083	1
black glass	–	N2271 CN	2CLA227100N3102		0.083	1
pearl glass	–	N2271 CP	2CLA227100N3502		0.085	1
coffee glass	–	N2271 CC	2CLA227100N3702		0.083	1
graphite glass	–	N2271 CF	2CLA227100N3802		0.085	1
champagne glass	–	N2271 CH	2CLA227100N3902		0.085	1
stainless steel	–	N2271 OX	2CLA227100N4002		0.2	1

Basic frame, 1 window, Zenit VDE

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2271.1 BL	2CLA227110N1102		0.021	1
silver	–	N2271.1 PL	2CLA227110N1302		0.021	1
anthracite	–	N2271.1 AN	2CLA227110N1802		0.019	1
champagne	–	N2271.1 CV	2CLA227110N1902		0.02	1

ABB i-bus® KNX

User Operation – Design Ranges – Zenit

N2272 BL

2 gang frames, Zenit VDE

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2272 BL	2CLA227200N1102		0.054	1
silver	–	N2272 PL	2CLA227200N1302		0.051	1
anthracite	–	N2272 AN	2CLA227200N1802		0.053	1
champagne	–	N2272 CV	2CLA227200N1902		0.052	1
wengué	–	N2272 WG	2CLA227200N2102		0.065	1
slate	–	N2272 PZ	2CLA227200N2202		0.154	1
white glass	–	N2272 CB	2CLA227200N3002		0.143	1
black glass	–	N2272 CN	2CLA227200N3102		0.136	1
pearl glass	–	N2272 CP	2CLA227200N3502		0.141	1
coffee glass	–	N2272 CC	2CLA227200N3702		0.142	1
graphite glass	–	N2272 CF	2CLA227200N3802		0.141	1
champagne glass	–	N2272 CH	2CLA227200N3902		0.14	1
stainless steel	–	N2272 OX	2CLA227200N4002		0.35	1

N2272.1 BL

2 gang frames – Basic, Zenit VDE

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2272.1 BL	2CLA227210N1102		0.036	1
silver	–	N2272.1 PL	2CLA227210N1302		0.035	1
anthracite	–	N2272.1 AN	2CLA227210N1802		0.034	1
champagne	–	N2272.1 CV	2CLA227210N1902		0.035	1

N2273 BL

3 gang frames, Zenit VDE

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2273 BL	2CLA227300N1102		0.08	1
silver	–	N2273 PL	2CLA227300N1302		0.079	1
anthracite	–	N2273 AN	2CLA227300N1802		0.079	1
champagne	–	N2273 CV	2CLA227300N1902		0.079	1
wengué	–	N2273 WG	2CLA227300N2102		0.099	1
slate	–	N2273 PZ	2CLA227300N2202		0.218	1
white glass	–	N2273 CB	2CLA227300N3002		0.2	1
black glass	–	N2273 CN	2CLA227300N3102		0.2	1
pearl glass	–	N2273 CP	2CLA227300N3502		0.2	1
coffee glass	–	N2273 CC	2CLA227300N3702		0.2	1
graphite glass	–	N2273 CF	2CLA227300N3802		0.2	1
champagne glass	–	N2273 CH	2CLA227300N3902		0.2	1
stainless steel	–	N2273 OX	2CLA227300N4002		0.52	1

N2273.1 BL

3 gang frames – Basic, Zenit VDE

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2273.1 BL	2CLA227310N1102		0.054	1
silver	–	N2273.1 PL	2CLA227310N1302		0.053	1
anthracite	–	N2273.1 AN	2CLA227310N1802		0.052	1
champagne	–	N2273.1 CV	2CLA227310N1902		0.055	1

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User Operation – Design Ranges – Zenit

N2274 BL

4 gang frames, Zenit VDE

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2274 BL	2CLA227400N1102		0.102	1
silver	–	N2274 PL	2CLA227400N1302		0.102	1
anthracite	–	N2274 AN	2CLA227400N1802		0.103	1
champagne	–	N2274 CV	2CLA227400N1902		0.103	1
wengué	–	N2274 WG	2CLA227400N2102		0.123	1
slate	–	N2274 PZ	2CLA227400N2202		0.278	1
white glass	–	N2274 CB	2CLA227400N3002		0.26	1
black glass	–	N2274 CN	2CLA227400N3102		0.261	1
pearl glass	–	N2274 CP	2CLA227400N3502		0.261	1
coffee glass	–	N2274 CC	2CLA227400N3702		0.261	1
graphite glass	–	N2274 CF	2CLA227400N3802		0.261	1
champagne glass	–	N2274 CH	2CLA227400N3902		0.261	1
stainless steel	–	N2274 OX	2CLA227400N4002		0.647	1

N2274.1 BL

4 gang frames – Basic, Zenit VDE

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2274.1 BL	2CLA227410N1102		0.07	1
silver	–	N2274.1 PL	2CLA227410N1302		0.07	1
anthracite	–	N2274.1 AN	2CLA227410N1802		0.069	1
champagne	–	N2274.1 CV	2CLA227410N1902		0.069	1



N2271.9

Metal mounting plate, Zenit VDE

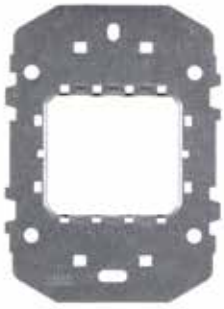
Metal mounting plate for Zenit VDE KNX sensors.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
2 windows	–	N2272.9	2CLA227290N1002		0.049	20

N2372.1 XX

Frame, 2 modules, Zenit, NEMA

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2372.1 BL	2CLA237210N1102		0.067	1
silver	–	N2372.1 PL	2CLA237210N1302		0.047	1
anthracite	–	N2372.1 AN	2CLA237210N1802		0.047	1
champagne	–	N2372.1 CV	2CLA237210N1902		0.047	1
slate	–	N2372.1 PZ	2CLA237200N2202		0.047	1
white glass	–	N2372.1 CB	2CLA237200N3002		0.124	1
black glass	–	N2372.1 CN	2CLA237200N3102		0.14	1
stainless steel	–	N2372.1 OX	2CLA237200N4002		0.278	1



N2371.9V

Metal mounting plate

Mounting plate for 3 module box, facilitates the assembly of 1 and 2 module devices in vertical or horizontal installations.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
for vertical installation	–	N2371.9V	2CLA237190N1002		0.054	20
for horizontal installation	–	N2373.9	2CLA237390N1002		0.036	20

ABB i-bus® KNX

User Operation – Design Ranges – Zenit



RS/U 1.1

KNX sensor, 1/2-gang, 1M **NEW**

Push switch function: switching, dimming, blind or scene.
Display elements: LED to indicate the function.
To be installed with N2121, N2121.1, N2121.3, N2121.5, N2121.8, N2121.9 or N21 customized rockers.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	RS/U 1.1	2CSY244490R1012		0.11	1



RS/U 2.1

KNX sensor, 2/4-gang, 2M **NEW**

Push switch function: switching, dimming, blind or scene.
Display elements: LED to indicate the function.
To be installed with N2121, N2121.1, N2121.3, N2121.5, N2121.8, N2121.9 or N21 customized rockers.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	RS/U 2.1	2CSY247450R1003		0.12	1



RA/U 1.16.1

KNX sensor/switch actuator, 2/1-gang, 2M **NEW**

Push switch function: switching, dimming, blind or scene.
Display elements: LED to indicate the function.
Outputs: 1x potential free contact.
Rated current: 16 A.
To be installed with N2121, N2121.1, N2121.3, N2121.5, N2121.8, N2121.9 or N21 customized rockers.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	RA/U 1.16.1	2CSY249580R1103		0.12	1



RA/U 2.8.1

KNX sensor/switch actuator, 2/2-gang, 2M **NEW**

Push switch function: switching, dimming, blind or scene.
Display elements: LED to indicate the function.
Outputs: 2x potential free contacts.
Rated current: 8 A.
To be installed with N2121, N2121.1, N2121.3, N2121.5, N2121.8, N2121.9 or N21 customized rockers.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	RA/U 2.8.1	2CSY242150R1106		0.12	1



RB/U 1.1

KNX sensor/blind actuator, 1/1-gang, 2M **NEW**

Push switch function: switching, dimming, blind or scene.
Display elements: LED to indicate the function.
Outputs: 1x change-over contacts/potential-bound
Rated current: 8 A.
To be installed with N2221, N2221.1, N2221.3, N2221.5, N2221.8, N2221.9 or N22 customized rockers.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	RB/U 1.1	2CSY247240R1105		0.12	1

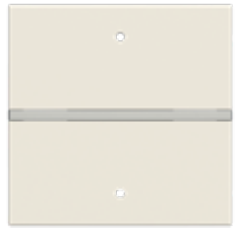


N2121 BL

Rocker cover without symbol, 1M **NEW**

Rocker cover without symbol for KNX sensor/actuator.
Suitable for codes: RS/U 1.1 and left and right positions of RS/U 2.1, RA/U 1.16.1 and RA/U/ 2.8.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2121 BL	2CLA212100N1101			10
white	–	N2121 BB	2CLA212100N1201			10
silver	–	N2121 PL	2CLA212100N1301			10
anthracite	–	N2121 AA	2CLA212100N1601			10
anthracite	–	N2121 AN	2CLA212100N1801			10
champagne	–	N2121 CV	2CLA212100N1901			10



N2221 BL

Rocker cover without symbol, 2M **NEW**

Rocker cover without symbol for KNX sensor/actuator.
Suitable for codes: RB/U 1.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2221 BL	2CLA222100N1101			10
white	–	N2221 BB	2CLA222100N1201			10
silver	–	N2221 PL	2CLA222100N1301			10
anthracite	–	N2221 AA	2CLA222100N1601			10
anthracite	–	N2221 AN	2CLA222100N1801			10
champagne	–	N2221 CV	2CLA222100N1901			10

ABB i-bus® KNX

User Operation – Design Ranges – Zenit



N2121.1 BL

Rocker cover with lamp symbol, 1M **NEW**

Rocker cover without symbol for KNX sensor/actuator.
Suitable for codes: RB/U 1.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2121.1 BL	2CLA212110N1101			10
white	–	N2121.1 BB	2CLA212110N1201			10
silver	–	N2121.1 PL	2CLA212110N1301			10
anthracite	–	N2121.1 AA	2CLA212110N1601			10
anthracite	–	N2121.1 AN	2CLA212110N1801			10
champagne	–	N2121.1 CV	2CLA212110N1901			10



N2121.1R BL

Rocker cover with lamp symbol, Right, 1M **NEW**

Rocker cover with lamp symbol for KNX sensor/actuator.
Suitable for codes: right position of RS/U 2.1, RA/U 1.16.1 and RA/U/ 2.8.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2121.1R BL	2CLA212112N1101			10
white	–	N2121.1R BB	2CLA212112N1201			10
silver	–	N2121.1R PL	2CLA212112N1301			10
anthracite	–	N2121.1R AA	2CLA212112N1601			10
anthracite	–	N2121.1R AN	2CLA212112N1801			10
champagne	–	N2121.1R CV	2CLA212112N1901			10



N2221.1 BL

Rocker cover with lamp symbol, 2M **NEW**

Rocker cover with lamp symbol for KNX sensor/actuator.
Suitable for codes: RB/U 1.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2221.1 BL	2CLA222110N1101			10
white	–	N2221.1 BB	2CLA222110N1201			10
silver	–	N2221.1 PL	2CLA222110N1301			10
anthracite	–	N2221.1 AA	2CLA222110N1601			10
anthracite	–	N2221.1 AN	2CLA222110N1801			10
champagne	–	N2221.1 CV	2CLA222110N1901			10



N2121.3 BL

Rocker cover with blind symbol, 1M

NEW

Rocker cover with blind symbol for KNX sensor/actuator.
Suitable for codes: RS/U 1.1 and left and right positions of RS/U 2.1, RA/U 1.16.1 and RA/U/ 2.8.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2121.3 BL	2CLA212130N1101			10
white	–	N2121.3 BB	2CLA212130N1201			10
silver	–	N2121.3 PL	2CLA212130N1301			10
anthracite	–	N2121.3 AA	2CLA212130N1601			10
anthracite	–	N2121.3 AN	2CLA212130N1801			10
champagne	–	N2121.3 CV	2CLA212130N1901			10



N2221.3 BL

Rocker cover with blind symbol, 2M

NEW

Rocker cover with blind symbol for KNX sensor/actuator.
Suitable for codes: RB/U 1.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2221.3 BL	2CLA222130N1101			10
white	–	N2221.3 BB	2CLA222130N1201			10
silver	–	N2221.3 PL	2CLA222130N1301			10
anthracite	–	N2221.3 AA	2CLA222130N1601			10
anthracite	–	N2221.3 AN	2CLA222130N1801			10
champagne	–	N2221.3 CV	2CLA222130N1901			10



N2121.5 BL

Rocker cover with ON/OFF symbol, 1M

NEW

Rocker cover with ON/OFF symbol for KNX sensor/actuator.
Suitable for codes: RS/U 1.1 and left position of RS/U 2.1, RA/U 1.16.1 and RA/U/ 2.8.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2121.5 BL	2CLA212150N1101			10
white	–	N2121.5 BB	2CLA212150N1201			10
silver	–	N2121.5 PL	2CLA212150N1301			10
anthracite	–	N2121.5 AA	2CLA212150N1601			10
anthracite	–	N2121.5 AN	2CLA212150N1801			10
champagne	–	N2121.5 CV	2CLA212150N1901			10

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User Operation – Design Ranges – Zenit



N2121.5R BL

Rocker cover with ON/OFF symbol, Right, 1M **NEW**

Rocker cover with ON/OFF symbol for KNX sensor/actuator.
Suitable for codes: right position of RS/U 2.1, RA/U1.16.1 and RA/U/ 2.8.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2121.5R BL	2CLA212152N1101			10
white	–	N2121.5R BB	2CLA212152N1201			10
silver	–	N2121.5R PL	2CLA212152N1301			10
anthracite	–	N2121.5R AA	2CLA212152N1601			10
anthracite	–	N2121.5R AN	2CLA212152N1801			10
champagne	–	N2121.5R CV	2CLA212152N1901			10



N2221.5 BL

Rocker cover with ON/OFF symbol, 2M **NEW**

Rocker cover with ON/OFF symbol for KNX sensor/actuator.
Suitable for codes: RB/U 1.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2221.5 BL	2CLA222150N1101			10
white	–	N2221.5 BB	2CLA222150N1201			10
silver	–	N2221.5 PL	2CLA222150N1301			10
anthracite	–	N2221.5 AA	2CLA222150N1601			10
anthracite	–	N2221.5 AN	2CLA222150N1801			10
champagne	–	N2221.5 CV	2CLA222150N1901			10



N2121.8 BL

Rocker cover with dimmer symbol, 1M **NEW**

Rocker cover with dimmer symbol for KNX sensor/actuator.
Suitable for codes: RS/U 1.1 and left position of RS/U 2.1, RA/U 1.16.1 and RA/U/ 2.8.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2121.8 BL	2CLA212180N1101			10
white	–	N2121.8 BB	2CLA212180N1201			10
silver	–	N2121.8 PL	2CLA212180N1301			10
anthracite	–	N2121.8 AA	2CLA212180N1601			10
anthracite	–	N2121.8 AN	2CLA212180N1801			10
champagne	–	N2121.8 CV	2CLA212180N1901			10



N2121.8R BL

Rocker cover with dimmer symbol, Right, 1M **NEW**

Rocker cover with dimmer symbol for KNX sensor/actuator.
Suitable for codes: right position of RS/U 2.1, RA/U1.16.1 and RA/U/ 2.8.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2121.8R BL	2CLA212182N1101			10
white	–	N2121.8R BB	2CLA212182N1201			10
silver	–	N2121.8R PL	2CLA212182N1301			10
anthracite	–	N2121.8R AA	2CLA212182N1601			10
anthracite	–	N2121.8R AN	2CLA222180N1801			10
champagne	–	N2121.8R CV	2CLA222180N1901			10



N2221.8 BL

Rocker cover with dimmer symbol, 2M **NEW**

Rocker cover with dimmer symbol for KNX sensor/actuator.
Suitable for codes: RB/U 1.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2221.8 BL	2CLA222180N1101			10
white	–	N2221.8 BB	2CLA222180N1201			10
silver	–	N2221.8 PL	2CLA222180N1301			10
anthracite	–	N2221.8 AA	2CLA222180N1601			10
anthracite	–	N2221.8 AN	2CLA222180N1801			10
champagne	–	N2221.8 CV	2CLA222180N1901			10



N2121.9 BL

Rocker cover with scene symbol, 1M **NEW**

Rocker cover with scene symbol for KNX sensor/actuator.
Suitable for codes: RS/U 1.1 and left position of RS/U 2.1, RA/U 1.16.1 and RA/U/ 2.8.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2121.9 BL	2CLA212190N1101			10
white	–	N2121.9 BB	2CLA212190N1201			10
silver	–	N2121.9 PL	2CLA212190N1301			10
anthracite	–	N2121.9 AA	2CLA212190N1601			10
anthracite	–	N2121.9 AN	2CLA212190N1801			10
champagne	–	N2121.9 CV	2CLA212190N1901			10

ABB i-bus® KNX

User Operation – Design Ranges – Zenit



N2121.9R BL

Rocker cover with scene symbol, Right, 1M **NEW**

Rocker cover with scene symbol for KNX sensor/actuator.
Suitable for codes: right position of RS/U 2.1, RA/U 1.16.1 and RA/U/ 2.8.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2121.9R BL	2CLA212192N1101			10
white	–	N2121.9R BB	2CLA212192N1201			10
silver	–	N2121.9R PL	2CLA212192N1301			10
anthracite	–	N2121.9R AA	2CLA212192N1601			10
anthracite	–	N2121.9R AN	2CLA212192N1801			10
champagne	–	N2121.9R CV	2CLA212192N1901			10



N2221.9 BL

Rocker cover with scene symbol, 2M **NEW**

Rocker cover with scene symbol for KNX sensor/actuator.
Suitable for codes: RB/U 1.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2221.9 BL	2CLA222190N1101			10
white	–	N2221.9 BB	2CLA222190N1201			10
silver	–	N2221.9 PL	2CLA222190N1301			10
anthracite	–	N2221.9 AA	2CLA222190N1601			10
anthracite	–	N2221.9 AN	2CLA222190N1801			10
champagne	–	N2221.9 CV	2CLA222190N1901			10



RT/U 1.1.ZW

KNX thermostat, 2M **NEW**

Standard KNX thermostat equipped with backlight LCD display 4 push buttons on the front for the following functionalities (Operating mode switching, Fan-coil speed manual switching, set-point manual increment/decrement).
Possibility to choose different type of control: 2-point ON/OFF, PWM, Continue, Fan- coil.
Cover plate included.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	RT/U 1.1.ZW	2CSY244280R1202		0.12	1
anthracite	–	RT/U 1.1.ZA	2CSY249370R1202		0.12	1
silver	–	RT/U 1.1.ZS	2CSY242280R1202		0.12	1
champagne	–	RT/U 1.1.ZC	2CSY247370R1202		0.12	1



TH/U 1.1.ZW

KNX transponder holder, 2M **NEW**

The “transponder holder” is a flush-mounting device for British Standard wall boxes, designed to realize access control systems with a communication support based on KNX bus. I is equipped with one relay (4A @24V AC/DC) and one binary input to be used for connecting external conventional push-button for switch, dimmer and shutter functionalities, or for example for connecting window contact or similar. The output can be programmed as “Linked to access control”, receiving in this case switching commands from the device itself (according to card insertion/removal); or being a standard KNX Switch actuator output, able to be controlled by every KNX-standard devices. The white blinking LED placed on the front of the device allow you to monitor device operation and can be also switched ON/OFF in the proper color according to KNX. The transponder reader requires a 12...24 V AC/DC external power supply to ensure its operation even with bus voltage failure.
Cover plate included.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	TH/U 1.1.ZW	2CSY244340R5200		0.055	1
anthracite	–	TH/U 1.1.ZA	2CSY249430R5200		0.055	1
silver	–	TH/U 1.1.ZS	2CSY242070R5200		0.055	1
champagne	–	TH/U 1.1.ZC	2CSY247160R5200		0.055	1



TR/U 1.1.ZW

KNX transponder reader, 2M **NEW**

The “transponder reader” is a flush-mounting device for British Standard wall boxes, designed to realize access control systems with a communication support based on KNX bus. It is equipped with one relay (4A @24 V AC/DC) and one input to be used for connecting external conventional card-holder (e.g. Zenit wiring accessories card-holder). The output can be programmed in three different ways: “Linked to access control”, receiving in this case switching commands from the device itself (according to transponder card validation); being a standard KNX Switch actuator output, able to be controlled by every KNXstandard devices; “linked to cardholder”, that means that the relay is switched according to closing/opening internal input contact available on transponder reader. The bicolor (red-green) LED placed on the front of the device allow you to monitor device operation and can be also switched ON/OFF in the proper color according to KNX telegram (for example for DND/MUR purposes). The transponder reader can be configured with ABB control software in order to behave as transponder programming device. The transponder reader requires a 12...24 V AC/DC external power supply to ensure its operation even with bus voltage failure.
Cover plate included.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	TR/U 1.1.ZW	2CSY244410R5000		0.055	1
anthracite	–	TR/U 1.1.ZA	2CSY249500R5000		0.055	1
silver	–	TR/U 1.1.ZS	2CSY242210R5000		0.055	1
champagne	–	TR/U 1.1.ZC	2CSY247300R5000		0.055	1

ABB i-bus® KNX

User Operation – Design Ranges – Mylos



2CSYK1001C

Binary Input, 2-fold

Device equipped with 2 binary input channels that can be used to interface to KNX system conventional push-buttons/rocker switches, or auxiliary/technical contacts. Equipped with LED for functional signaling. Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1001C	2CSYK1001C		0.07	1
black	–	2CSYK1001S	2CSYK1001S		0.07	1



2CSYK1002C

Binary Input, 2-fold, with Rocker Switch

Device equipped with: 1 rocker switch; 2 binary input channels that can be used to interface to KNX system conventional push-buttons/rocker switches, or auxiliary/technical contacts. LEDs for the functional signaling of the load to which the rocker switch is connected. Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1002C	2CSYK1002C		0.07	1
black	–	2CSYK1002S	2CSYK1002S		0.07	1



2CSYK1003C

Binary Input, 2-fold, with Rocker Switches, 2 gang

Device equipped with: 2 rocker switches; 2 binary input channels that can be used to interface to KNX system conventional push-buttons/rocker switches, or auxiliary/technical contacts. LEDs for the functional signaling of the load to which the rocker switch is connected. Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1003C	2CSYK1003C		0.07	1
black	–	2CSYK1003S	2CSYK1003S		0.07	1



2CSYK1023C

Binary Input, 2-fold, with Rocker Switches, 2 gang, multifunction

Device equipped with:2 rocker switches; 2 binary input channels that can be used to interface to KNX system conventional push-buttons/rocker switches, or auxiliary/technical contacts. LEDs for the functional signaling of the load to which the rocker switch is connected. Upper and lower rocker switches can be separeted for switching, dimming, shutter functionality. Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1023C	2CSYK1023C			1
black	–	2CSYK1023S	2CSYK1023S			1



2CSYK1012C

One rocker switch

1 rocker switch device used as a sensor in KNX system. LEDs for the functional signaling of the load to which the rocker switch is connected. Flush-mounted installation. Customization labels are available as separate articles: 2CSYE1502C and 2CSYE1502S.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1012C	2CSYK1012C		0.07	1
black	–	2CSYK1012S	2CSYK1012S		0.07	1



2CSYK1022C

One rocker switch, multifunction

1 rocker switch device used as a sensor in KNX system. LEDs for the functional signaling of the load to which the rocker switch is connected. Upper and lower rocker switches can be separeted for switching, dimming, shutter functionality. Flush-mounted installation. Customization labels are available as separate articles: 2CSYE1502C and 2CSYE1502S.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1022C	2CSYK1022C			1
black	–	2CSYK1022S	2CSYK1022S			1



2CSYK1101C

Switch Actuator, 1-fold, 16 A

Device equipped with 1 output channel to switch 1 independent electrical load (16 A) via KNX bus. Equipped with LED for functional signaling. Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1101C	2CSYK1101C		0.07	1
black	–	2CSYK1101S	2CSYK1101S		0.07	1



2CSYK1102C

Switch Actuator, 1-fold, 16 A, with Rocker Switch

Device equipped with: 1 rocker switch, 1 output channel to switch 1 independent electrical load (16 A) via KNX bus. Equipped with LED for functional signaling. Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1102C	2CSYK1102C		0.07	1
black	–	2CSYK1102S	2CSYK1102S		0.07	1

ABB i-bus® KNX

User Operation – Design Ranges – Mylos



2CSYK1103C

Switch Actuator, 1-fold, 16A, with Rocker Switches, 2 gang

Device equipped with: 2 rocker switches, 1 output channel to switch 1 independent electrical load (16 A) via KNX bus. Equipped with LED for functional signaling. Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1103C	2CSYK1103C		0.07	1
black	–	2CSYK1103S	2CSYK1103S		0.07	1



2CSYK1104C

Shutter Actuator, 1-fold, 230 V

Device equipped with 1-fold shutter actuator. Equipped with LED for functional signaling. Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1104C	2CSYK1104C		0.07	1
black	–	2CSYK1104S	2CSYK1104S		0.07	1



2CSYK1105C

Shutter Actuator, 1-fold, 230 V, with Rocker Switch

Device equipped with 1-fold shutter actuator and 1 rocker switch. Equipped with LED for functional signaling.Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1105C	2CSYK1105C		0.07	1
black	–	2CSYK1105S	2CSYK1105S		0.07	1



2CSYK1106C

Switch Actuator, 2-fold, 8A, with Rocker Switches, 2 gang

Device equipped with: 2 rocker switches, 2 output channel to switch 2 independent electrical load (8 A) via KNX bus. Equipped with LED for functional signaling. Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1106C	2CSYK1106C		0.07	1
black	–	2CSYK1106S	2CSYK1106S		0.07	1



2CSYK1202C

Thermostat

Standard KNX thermostat equipped with backlight LCD display 4 push buttons on the front- for the following functionalities (Operating mode switching, Fan-coil speed manual switching, set-point manual increment/decrement). Possibility to choose different type of control: 2-point ON/OFF, PWM, Continue, Fan- coil.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1202C	2CSYK1202C		0.07	1
black	–	2CSYK1202S	2CSYK1202S		0.07	1



2CSYK1205C

Universal Dimmer Actuator, 1-fold, 350W, with Rocker Switch

Device with 350 W dimmer and rocker switch. Suitable for inductive and capacitive load with automatic recognition. Equipped with LED for load functional signaling.Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1205C	2CSYK1205C		0.07	1
black	–	2CSYK1205S	2CSYK1205S		0.07	1



2CSYK1206C

Dimmer 1..10 V, 1-fold, with Rocker Switch

Device equipped with 1/10 V dimmer with rocker switch. Suitable for loads with ballast adjustment. Equipped with LED for load functional signaling. Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1206C	2CSYK1206C		0.07	1
black	–	2CSYK1206S	2CSYK1206S		0.07	1



LT/U 1.1.MC
LT/U 1.1.MS

Transponder Reader, Mylos

The transponder reader is used for access control in the hotel, residential and commercial sectors (office buildings, business centers, laboratories, etc.). The device is equipped with two bistable relays (8 A, 250 V AC), one of which can be assigned to control electronic lock, and three voltage-free, non-optically insulated inputs; the 5-V DC scanning voltage is available on the COM terminal.
The transponder reader requires a 10...32 V DC/12...24 V AC external power supply to ensure its operation even with bus voltage failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	LT/U 1.1.MC	2CSYK5000C		0.1	1
black	–	LT/U 1.1.MS	2CSYK5000S		0.1	1

ABB i-bus® KNX

User Operation – Design Ranges – Mylos



PTI/U 1.1.MC

Transponder Holder, Mylos

The transponder holder is equipped with a slot into which the transponder card is inserted. In a hotel application, this allows occupancy recognition and notification at the supervisory level (e.g. on the front desk computer). Moreover, room status information can be managed by using special cards (minibar status, maintenance status, usability).
The device is equipped with two bistable relays (8 A, 250 V AC), and three voltage-free, non-optically insulated inputs; the 5-V DC scanning voltage is generated by the device itself. The transponder holder has on the front four LEDs for signaling indications. It requires a 10...32 V DC/12...24 V AC auxiliary power supply to ensure its operation even in case of KNX voltage failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	PTI/U 1.1.MC	2CSYK5200C		0.1	1
black	–	PTI/U 1.1.MS	2CSYK5200S		0.1	1

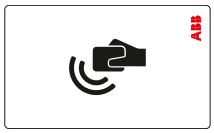


PRT/U 1.1.MC

Transponder Programming Device, Mylos

The devices allows the programming of transponder cards. The device is equipped with two bistable relays (8 A, 250 V AC), and three voltage-free, non-optically insulated inputs; the 5-V DC scanning voltage is generated by the device itself. The transponder programming device has on the front four LEDs for signaling indications. It requires a 10...32Vdc/12...24Vac auxiliary power supply to ensure its operation even in case of KNX voltage failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	PRT/U 1.1.MC	2CSYK5300C		0.1	1
black	–	PRT/U 1.1.MS	2CSYK5300S		0.1	1



CH/T 2
CH/T 2.1

Set of 5 Transponder Cards for Chiara and Mylos design programs

The transponder card uses passive transponder technology operating in radio frequency, without the need for contact between the reader and the card itself. The transponder card is read by swiping it in front of the reader at a maximum distance of 20 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
5 transponder cards	–	CH/T 2	2CSKK5400C		0.005	1
1000 transponder cards	–	CH/T 2.1	2CSY289611R1941		1	1



SW MiniMAC 4.1

MiniMAC software

The management and configuration software ensures bidirectional communication with the access control system devices, allowing the system's configuration during its installation and its overall management and supervision.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SW MiniMAC 4.1	2CSY258202R2051		0.005	1



RoomGuard software

RoomGuard software **NEW**

RoomGuard software for configuration and supervision of ABB Access Control range; Tacteo, Millenium, Zenit, Chiara, and Mylos.
RoomGuard is a web-based scalable solution (licensing model based on number of rooms) accessible by any browser providing greater accessibility for hotel and maintenance staff. Main features and functionality include: Access control (management of keys, groups, time bands and staff cards, definition of access to common areas, and more), room state monitoring, guest check in/check out, front desk room load monitoring, management of guest and employee databases, Occupancy and access records and statistics, front desk management of room climate, and maintenance and diagnostics. RoomGuard features an intuitive and easy to use interface, with straightforward installation and configuration, seamless integration with building automation and third-party software integration.
RoomGuard software replaces MiniMAC software.
Available December 2022

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
RoomGuard software, 10 readers/rooms	–	RoomGuard-10	2CSY247450R0010		–	1
RoomGuard software, 20 readers/rooms	–	RoomGuard-20	2CSY244490R0020		–	1
RoomGuard software, 50 readers/rooms	–	RoomGuard-50	2CSY249580R0050		–	1
RoomGuard software, 100 readers/rooms	–	RoomGuard-100	2CSY242150R0100		–	1
RoomGuard software, 200 readers/rooms	–	RoomGuard-200	2CSY247240R0200		–	1
RoomGuard software, PMS interface	–	RoomGuard-PMS	2CSY244280R0999		–	1

ABB i-bus® KNX

User Operation – Design Ranges – Mylos

Square Cover Plate

Mylos Etik

The design in perfect harmony with sustainability. Today, the development of a new product cannot ignore the impact on the environment in which we live. Every effort must be made with a view to obtaining an original but mainly sustainable result. ABB strongly believes in this commitment. And confirms this with Mylos Etik, the new finish that is good for all, including the environment.



White



Black

Mylos Etik white and black

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	2	2CSY0201QEP	2CSY0201QEP			1
white	3	2CSY0301QEP	2CSY0301QEP			1
white	4	2CSY0401QEP	2CSY0401QEP			1
black	2	2CSY0200QEP	2CSY0200QEP			1
black	3	2CSY0300QEP	2CSY0300QEP			1
black	4	2CSY0400QEP	2CSY0400QEP			1

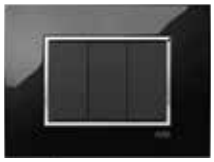
Mylos Lucent
A great adventure in luminosity.
If the need is to surround youself with sparkling elements, the Lucent series is the most appropriate choice.
Made of special resins, each plate enhances with its glossy shades in every setting, like spots of light on Caravaggio canvases.
Mylos Lucent evokes elements such as alabaster and ice, also makes black shine, giving a technological aspect and thereby completing particularly high-tech spaces.



White alabaster

Lucent, White Alabaster.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0201QGP	2CSY0201QGP		0.033	1
	3	2CSY0301QGP	2CSY0301QGP		0.054	1
	4	2CSY0401QGP	2CSY0401QGP		0.067	1
	7	2CSY0701QGP	2CSY0701QGP		0.108	1
	4+4	2CSY0801QGP	2CSY0801QGP		0.133	1



Brilliant black

Lucent, Brilliant black.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0200QLP	2CSY0200QLP		0.033	1
	4	2CSY0400QLP	2CSY0400QLP		0.067	1
	7	2CSY0700QLP	2CSY0700QLP		0.108	1
	4+4	2CSY0800QLP	2CSY0800QLP		0.133	1



Ice

Lucent, Ice.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0203QLP	2CSY0203QLP		0.033	1
	3	2CSY0303QLP	2CSY0303QLP		0.054	1
	4	2CSY0403QLP	2CSY0403QLP		0.067	1
	7	2CSY0703QLP	2CSY0703QLP		0.108	1
	4+4	2CSY0803QLP	2CSY0803QLP		0.133	1

ABB i-bus® KNX

User Operation – Design Ranges – Mylos

Mylos Velvet
A touch of velvet in every gesture.
The Mylos Velvet finish draws inspiration from the creation of interiors in the automotive sector, a feather in the cap of Italian industrial tradition.
The technology applied to polymers makes it possible to obtain a matt scratchresistant finish and with an extraordinary soft tactile effect, just like velvet, to provide one's home with an original multisensorial elegance.



Graphite

Velvet, Graphite.

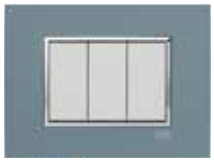
Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0225QSP	2CSY0225QSP		0.033	1
	3	2CSY0325QSP	2CSY0325QSP		0.054	1
	4	2CSY0425QSP	2CSY0425QSP		0.067	1
	7	2CSY0725QSP	2CSY0725QSP		0.108	1
	4+4	2CSY0825QSP	2CSY0825QSP		0.133	1



White

Velvet, White.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0224QMP	2CSY0224QMP		0.033	1
	3	2CSY0324QMP	2CSY0324QMP		0.054	1
	4	2CSY0424QMP	2CSY0424QMP		0.067	1
	7	2CSY0724QMP	2CSY0724QMP		0.108	1
	4+4	2CSY0824QMP	2CSY0824QMP		0.133	1



Cold grey

Velvet, Cold Grey.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0222QSP	2CSY0222QSP		0.033	1
	3	2CSY0322QSP	2CSY0322QSP		0.054	1
	4	2CSY0422QSP	2CSY0422QSP		0.067	1
	7	2CSY0722QSP	2CSY0722QSP		0.108	1
	4+4	2CSY0822QSP	2CSY0822QSP		0.133	1



Black

Velvet, Black.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0223QSP	2CSY0223QSP		0.033	1
	3	2CSY0323QSP	2CSY0323QSP		0.054	1
	4	2CSY0423QSP	2CSY0423QSP		0.067	1
	7	2CSY0723QSP	2CSY0723QSP		0.108	1
	4+4	2CSY0823QSP	2CSY0823QSP		0.133	1



Anthracite

Velvet, Anthracite.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0226QSP	2CSY0226QSP		0.033	1
	3	2CSY0326QSP	2CSY0326QSP		0.054	1
	4	2CSY0426QSP	2CSY0426QSP		0.067	1
	7	2CSY0726QSP	2CSY0726QSP		0.108	1
	4+4	2CSY0826QSP	2CSY0826QSP		0.133	1



White white

Velvet, White white.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0201QWP	2CSY0201QWP		0.033	1
	3	2CSY0301QWP	2CSY0301QWP		0.054	1
	4	2CSY0401QWP	2CSY0401QWP		0.067	1
	7	2CSY0701QWP	2CSY0701QWP		0.108	1
	4+4	2CSY0801QWP	2CSY0801QWP		0.133	1

ABB i-bus® KNX

User Operation – Design Ranges – Mylos

Mylos Metal

The prestige, the strength, the charm.

The skill in working metals is another typically Italian talent. The Mylos Metal civil series is the result of the process of die-casting of “zama”, a zinc alloy, finished with the shades of natural metals by means of precious painting and careful brushing for each and every piece. The finishes obtained range from silver to gold, through aluminium, steel and chromium, brushed and glossy, that evoke sensations of sophistication and preciousness.



Brushed steel

Metal, Scratchbrushed steel.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0202QSZ	2CSY0202QSZ		0.1	1
	3	2CSY0302QSZ	2CSY0302QSZ		0.114	1
	4	2CSY0402QSZ	2CSY0402QSZ		0.12	1
	7	2CSY0702QSZ	2CSY0702QSZ		0.135	1
	4+4	2CSY0802QSZ	2CSY0802QSZ		0.24	1

ABB i-bus® KNX

User Operation – Design Ranges – Chiara



2CSKK1002C

Binary Input, 2-fold, with Rocker Switch

Device equipped with: 1 rocker switch; 2 binary input channels that can be used to interface to KNX system conventional push-buttons/rocker switches, or auxiliary/technical contacts. LEDs for the functional signaling of the load to which the rocker switch is connected. Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
white	–	2CSKK1002C	2CSK206571R1002		0.12	1



2CSKK1003C

Binary Input, 2-fold, with Rocker Switches, 2 gang

Device equipped with: 2 rocker switches; 2 binary input channels that can be used to interface to KNX system conventional push-buttons/rocker switches, or auxiliary/technical contacts. LEDs for the functional signaling of the load to which the rocker switch is connected. Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
white	–	2CSKK1003C	2CSK232195R1003			1



2CSKK1202C

Thermostat

Standard KNX thermostat equipped with backlight LCD display 4 push buttons on the front-for the following functionalities (Operating mode switching, Fan-coil speed manual switching, set-point manual increment/decrement). Possibility to choose different type of control: 2-point ON/OFF, PWM, Continue, Fan- coil.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSKK1202C	2CSK232205R1202		0.07	1



2CSKK1504C

Set of 4 cover DND/MUR

Cover for Chiara KNX device 2CSKK1002C. With Do-Not-Disturb/Make-Up-Room symbols.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
white	–	2CSKK1504C	2CSK232155R1504			1

ABB i-bus® KNX

User Operation – Design Ranges – Chiara



TR/U 1.1.CH

Transponder Reader, Chiara 2 modules

The “transponder reader” is a flush-mounting device, designed to realize access control systems with a communication support based on KNX bus. It is equipped with one relay (4 A @24 V AC/DC) and one input to be used for connecting external conventional card-holder (e.g. Chiara wiring accessories card-holder).

The output can be programmed in three different ways: “Linked to access control”, receiving in this case switching commands from the device itself (according to transponder card validation); being a standard KNX Switch actuator output, able to be controlled by every KNX-standard devices; “linked to card-holder”, that means that the relay is switched according to closing/opening internal input contact available on transponder reader.

The bicolor (red-green) LED placed on the front of the device allow you to monitor device operation and can be also switched ON/OFF in the proper color according to KNX telegram (for example for DND/MUR purposes).

The transponder reader requires a 12...24 V AC/DC external power supply to ensure its operation even with bus voltage failure.

The transponder reader is available for ABB Chiara wiring accessories range.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	TR/U 1.1.CH	2CSK289601R1902			1



TH/U 1.1.CH

Transponder Holder, Chiara 2 modules

The “transponder holder” is a flush-mounting device for British Standard wall boxes, designed to realize access control systems with a communication support based on KNX bus. It is equipped with one relay (4 A @24 V AC/DC) and one binary input to be used for connecting external conventional push-button for switch, dimmer and shutter functionalities, or for example for connecting window contact or similar.

The output can be programmed as “Linked to access control”, receiving in this case switching commands from the device itself (according to card insertion/removal); or being a standard KNX Switch actuator output, able to be controlled by every KNX-standard devices.

The bicolor (red-green) LED placed on the front of the device allow you to monitor device operation and can be also switched ON/OFF in the proper color according to KNX.

The transponder reader requires a 12...24 V AC/DC external power supply to ensure its operation even with bus voltage failure.

The transponder reader is available for ABB Chiara wiring accessories range.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	TH/U 1.1.CH	2CSK202481R1922			1



LT/U 1.1.CH

Transponder Reader, Chiara

The transponder reader is used for access control in the hotel, residential and commercial sectors (office buildings, business centers, laboratories, etc.). The device is equipped with two bistable relays (8 A, 250 V AC), one of which can be assigned to control electronic lock, and three voltage-free, non-optically insulated inputs; the 5-V DC scanning voltage is available on the COM terminal.
The transponder reader requires a 10...32 V DC/12...24 V AC external power supply to ensure its operation even with bus voltage failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
white	–	LT/U 1.1.CH	2CSKK5000C		0.05	1



PTI/U 1.1.CH

Transponder Holder, Chiara

The transponder holder is equipped with a slot into which the transponder card is inserted. In a hotel application, this allows occupancy recognition and notification at the supervisory level (e.g. on the front desk computer).
Moreover, room status information can be managed by using special cards (minibar status, maintenance status, usability).
The device is equipped with 2 bistable relays (8 A, 250 V AC) and 3 voltage-free, non-optically insulated inputs; the 5-V DC scanning voltage is available on the COM terminal.
The transponder pocket requires a 10...32 V DC/12...24 V AC external power supply to ensure its operation even with bus voltage failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	PTI/U 1.1.CH	2CSKK5200C		0.05	1



PRT/U 1.1.CH

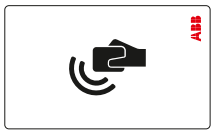
Transponder Programming Device, Chiara

The devices allows the programming of transponder cards.
The device is equipped with 2 bistable relays (8 A, 250 V AC) and 3 voltage-free non-optically insulated inputs; 5 V DC scanning voltage is available on the COM terminal.
The transponder programmer requires a 10...32 V DC/12...24 V AC external power supply to ensure its operation even with bus voltage failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	PRT/U 1.1.CH	2CSKK5300C		0.05	1

ABB i-bus® KNX

User Operation – Design Ranges – Chiara



CH/T 2
CH/T 2.1

Set of 5 Transponder Cards for Chiara and Mylos design programs
The transponder card uses passive transponder technology operating in radio frequency, without the need for contact between the reader and the card itself. The transponder card is read by swiping it in front of the reader at a maximum distance of 20 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
5 transponder cards	–	CH/T 2	2CSKK5400C		0.005	1
1000 transponder cards	–	CH/T 2.1	2CSY289611R1941		1	1



TS/T 1
TS/T 1.1

Set of Transponder Cards for Millenium, Chiara 2 modules and tacteo design programs
The transponder card uses passive transponder technology operating in radio frequency (MIFARE technology), without the need for contact between the reader and the card itself. The transponder card is read by swiping it in front of the reader at a maximum distance of 20 mm (can be reduced according to installation environment).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
10 transponder cards	–	TS/T 1	2CSY259412R2041		0.02	1
1000 transponder cards	–	TS/T 1.1	2CSY232175R2041		1	1



SW MiniMAC 4.1

MiniMAC software
The management and configuration software ensures bidirectional communication with the access control system devices, allowing the system's configuration during its installation and its overall management and supervision.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SW MiniMAC 4.1	2CSY258202R2051		0.005	1



RoomGuard software

RoomGuard software **NEW**

RoomGuard software for configuration and supervision of ABB Access Control range; Tacteo, Millenium, Zenit, Chiara, and Mylos.
RoomGuard is a web-based scalable solution (licensing model based on number of rooms) accessible by any browser providing greater accessibility for hotel and maintenance staff. Main features and functionality include: Access control (management of keys, groups, time bands and staff cards, definition of access to common areas, and more), room state monitoring, guest check in/check out, front desk room load monitoring, management of guest and employee databases, Occupancy and access records and statistics, front desk management of room climate, and maintenance and diagnostics. RoomGuard features an intuitive and easy to use interface, with straightforward installation and configuration, seamless integration with building automation and third-party software integration.
RoomGuard software replaces MiniMAC software.
Available December 2022

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
RoomGuard software, 10 readers/rooms	–	RoomGuard-10	2CSY247450R0010		–	1
RoomGuard software, 20 readers/rooms	–	RoomGuard-20	2CSY244490R0020		–	1
RoomGuard software, 50 readers/rooms	–	RoomGuard-50	2CSY249580R0050		–	1
RoomGuard software, 100 readers/rooms	–	RoomGuard-100	2CSY242150R0100		–	1
RoomGuard software, 200 readers/rooms	–	RoomGuard-200	2CSY247240R0200		–	1
RoomGuard software, PMS interface	–	RoomGuard-PMS	2CSY244280R0999		–	1

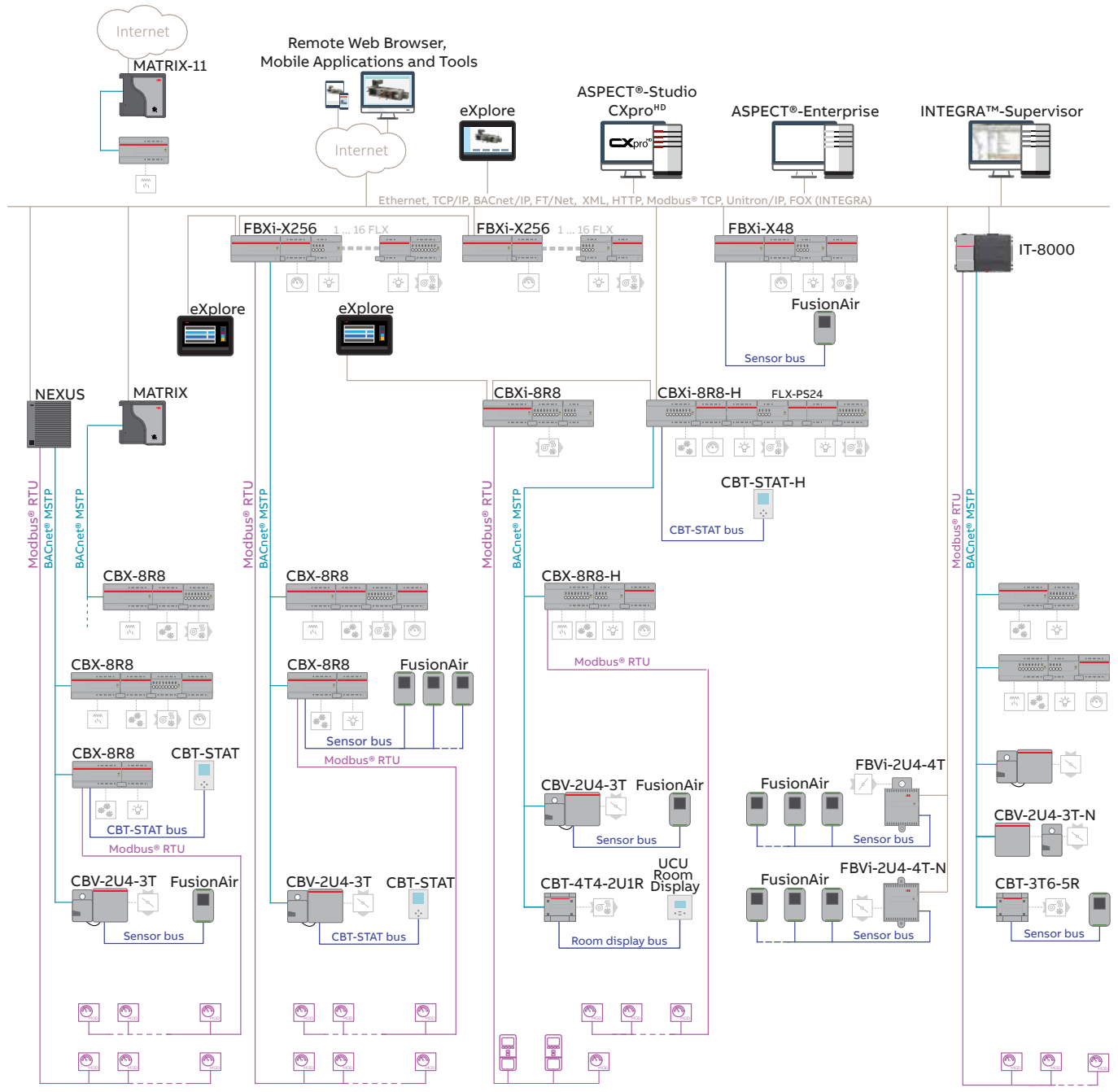
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Electrical installation solutions for buildings
ABB Cylon®

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ABB Cylon®
System Architecture



FBXi-X256 / CBXi-8R8 / CBX-8R8
CBXi-8R8-H / CBX-8R8-H
CBV-2U4-3T
FLX-8R8 / FLX-4R4 / FLX-16DI
FLX-8R8 -H
FLX-4R4-H
FLX-PS24
CBT-4T4-2U1R
FBVi-2U4-4T
FBVi-2U4-4T-N
eXplore
NEXUS Series
MATRIX Series
INTEGRA Series
FusionAir Smart Sensor
CBT-STAT
UCU Room Display

ABB Cylon®

ASPECT® Control Engines (ACE) & Supervisor



Matrix Series

MATRIX Series

The MATRIX is an IoT (Internet of Things) embedded ASPECT® Control Engine designed to provide flexible site control applications for medium to large scale building automation systems. It can be used to connect with Cylon CB Series and AAM NB Series of BACnet® MS/TP field level controllers. The MATRIX supports serial communications protocols such as BACnet®, AAM PUP, and Modbus®. Additionally, TCP/IP communications using FT/Net, BACnet®, Modbus® and Cylon's Unitron (when used with the UC32.netK) protocols are available when using the RJ-45 connection.

Description	Order details	
	Type code	Order code
MAT-216 ACE 750 points, 16 devices MATRIX ACE with embedded ASPECT & web UI	MAT-216	2CQG100102R1021
MAT-232 ACE 1250 points, 32 devices MATRIX ACE with embedded ASPECT & web UI	MAT-232	2CQG100103R1021
MAT-264 ACE 1750 points, 64 devices MATRIX ACE with embedded ASPECT & web UI	MAT-264	2CQG100104R1021
MAT-296 ACE 2000 points, 96 devices MATRIX ACE with embedded ASPECT & web UI	MAT-296	2CQG100105R1021
MAT-11 ACE 750 points, 1 device MATRIX ACE with embedded ASPECT & web UI	MATRIX-11	2CQG100106R1021



NEXUS-3 Series

NEXUS-3 Series

The NEXUS-3 is an IoT (Internet of Things) embedded ASPECT® Control Engine designed to provide flexible site control applications for medium to large scale building automation systems. It can be used to connect with Cylon CB Series and AAM NB Series of BACnet® MS/TP field level controllers. The NEXUS-3 supports serial communications protocols such as BACnet®, AAM PUP, and Modbus®. Additionally, TCP/IP communications using FT/Net, BACnet®, Modbus® and Cylon's Unitron (when used with the UC32.netK) protocols are available when using the RJ-45 connection.

Description	Order details	
	Type code	Order code
NEXUS-3-2128 ACE 128 devices,8000 points NEXUS ACE with embedded ASPECT & web UI	NEXUS-3-2128	2CQG100110R2021
NEXUS-3-264 ACE 64 devices, 4000 points NEXUS ACE with embedded ASPECT & web UI	NEXUS-3-264	2CQG100111R2021



ASPECT®-Enterprise

ASPECT-Enterprise

ASPECT-Enterprise is a server-based variant that provides all of the powerful features of ASPECT, but is installed on specified server hardware. As this solution is hosted by the end-user, it requires no proprietary hardware, but requires the purchase of ASPECT®-Enterprise software. This allows the ease of on-site installations and fewer restrictions on requirements. In addition, it integrates with popular Internet programs to allow end- users more freedom. With ASPECT®, your PC, tablet, or smart device can integrate with your building easily and efficiently.

Whether the platform is a server running VMware®, a standard server box or complex rack-mountable network appliance, ASPECT®-Enterprise provides the capability, security, and the specification to meet the requirements of almost any project at an affordable price.

Description	Order details	
	Type code	Order code
ASP-ENT-2 2 FT/Net, 15000 points ASPECT-Enterprise software	ASP-ENT-2	2CQG103202S3021
ASP-ENT-12 12 FT/Net, 25000 points ASPECT-Enterprise software	ASP-ENT-12	2CQG103201S3021
ASP-ENT-96 96 FT/Net, 50000 points ASPECT-Enterprise software	ASP-ENT-96	2CQG103204S3021
ASP-ENT-256 256 FT/Net, 100000 points ASPECT-Enterprise software	ASP-ENT-256	2CQG103203S3021

ABB Cylon®

ABB Cylon® ASPECT® Engineering



ASPECT®-Studio

ASPECT-Studio

ASPECT®-Studio provides a graphical programming tool experience like no other for configuring ASPECT® applications. Acting as an integrated development environment for ASPECT® products, ASPECT®-Studio contains a complete library of logical and graphical "widgets" representing the common tools that are used to engineer sophisticated control strategies for a complete control system and graphical user interface solution.

Using this highly intuitive software environment, users create and define all necessary elements for a project – including network device and point programming, global control sequencing, historical trending, alarming, scheduling, as well as rich graphical user interface pages. Rapid engineering capabilities can be leveraged to minimize labor intensive steps. This includes mass editing options, import and export of networked devices and points, and the ability to create custom Device and Point templates.

As a project is created, you have the ability to evaluate your work through each step of the engineering phase using simulated data, as well as the ability to communicate with defined networks, devices and their associated points. Complete testing prior to the deployment of a project can also be performed using a local simulation of the ASPECT® environment.

At commissioning time, ASPECT®-Studio reduces labor for technicians by automatically generating an HTML5 UI for all defined network devices, allowing smart phone and tablet users to gain access to the energy management system.

Description	Order details	
	Type code	Order code
ASP-STU Single User / 1 Soft Dongle ASPECT-Studio License Key	ASP-STU	2CQG103403S3021
ASP-STU-A +1 Soft Dongle ASPECT-Studio Additional Soft License	ASP-STU-A	2CQG103404S3021
ASP-STU-AR Licence annual renewal ASPECT-Studio licence annual renewal	ASP-STU-RENEW	2CQG103407S3021
ASP-STU-EU End user / 1 Soft Dongle ASPECT-Studio Enduser Software Key	ASP-STU-EU	2CQG103401S3021
ASP-STU-EU-UPG End user license upgrade ASPECT-Studio major release upgrade	ASP-STU-EU-UPG	2CQG103402S3021

ABB Cylon®

ABB Cylon® ASPECT® Licence Upgrades



ASPECT®-Studio single user licence (Soft Licence)

Description	Order details	
	Type code	Order code
ASPECT®-Enterprise 16 device TCP Add Licence Pack Adds support for 16 devices or 800 points of BACnet®/IP or Modbus TCP to ASPECT-ENT-XXX.	ENT-TCP-16	2CQG103207S3021
ASPECT®-Enterprise 32 device TCP Add Licence Pack Adds support for 32 devices or 1,600 points of BACnet®/IP or Modbus TCP to ASPECT-ENT-XXX.	ENT-TCP-32	2CQG103209S3021
ASPECT®-Enterprise 64 device TCP Add Licence Pack Adds support for 64 devices or 3,200 points of BACnet®/IP or Modbus TCP to ASPECT-ENT-XXX.	ENT-TCP-64	2CQG103210S3021
ASPECT®-Enterprise 128 device TCP Add Licence Pack Adds support for 128 devices or 6,400 points of BACnet®/IP or Modbus TCP to ASPECT-ENT-XXX.	ENT-TCP-128	2CQG103206S3021
ASPECT®-Enterprise 256 device TCP Add Licence Pack Adds support for 256 devices or 12,800 points of BACnet®/IP or Modbus TCP to ASPECT-ENT-XXX.	ENT-TCP-256	2CQG103208S3021
ASPECT®-Enterprise field licence upgrade charge This charge applies when there is no associated hardware or software purchased - i.e. field upgrades or moving a licence to a different device.	ENT-LIC-CHG	2CQG103701S3021
Upgrade from ASPECT®-ENT-12 to ASPECT®-ENT-96 ASPECT®-Enterprise licence file to upgrade from ASPECT-ENT-12 (or lower) to ASPECT-ENT-96. Requires ENT-LIC-CHG.	ENT-UP-96	2CQG103212S3021
Upgrade from ASPECT®-ENT-96 to ASPECT®-ENT-256 ASPECT®-Enterprise licence file to upgrade from ASPECT-ENT-96 to ASPECT-ENT-256. Requires ENT-LIC-CHG.	ENT-UP-256	2CQG103211S3021

ABB Cylon®

BACnet®/IP Main Plant Controllers



FBXi Series

FBXi Series

The FBXi Series is a freely programmable range of BACnet® Controllers with native BACnet/IP communications support. The controllers are BTL listed BACnet Building Controller (B-BC) and are ideally suited for a wide range of applications for intelligent control of HVAC equipment, and electrical systems including lighting control and metering applications. The FBXi Series controllers support multi-protocol communications simultaneously including BACnet/IP, BACnet MS/TP, Modbus® TCP and Modbus RTU.
Part of the Cylon® FLXeon Line of BACnet field controllers, the FBXi Series controllers feature support for up to sixteen FLX (Field Level eXpansion) series extension modules providing up to 256 points of control, and a dedicated input for Cylon® room sensors. FLX I/O expansion modules are available in a variety of options to allow maximum flexibility in achieving the required point configuration.

Description	Order details	
	Type code	Order code
FBXi-X256 IP B-BC + 320 Modbus	1M102110	2CQG201014R1021
FBXi-X48 IP B-BC + 320 Modbus	1M102111	2CQG201018R1021



CBXi Series

CBXi Series

The CBXi Series is a freely programmable range of BACnet® Controllers with native BACnet/IP communications support. The controllers are BTL listed BACnet Building Controller (B-BC) and are ideally suited for a wide range of applications for intelligent control of HVAC equipment, and electrical systems including lighting control and metering applications.
The CBXi-8R8 and CBXi-8R8-H controllers support multi-protocol communications simultaneously including BACnet/IP, BACnet MS/TP, Modbus® TCP and Modbus RTU.
Part of Cylon's CB Line of BACnet field controllers, the CBXi-8R8 controller features 8 UniPuts™ with Relay, 8 Universal Inputs, as well as support for up to five FLX (Field Level eXpansion) series extension modules providing up to 96 points of control, and a dedicated input for Cylon's CBT-STAT or UCU Room Display intelligent room sensors. The -H variant provides local override function through HOA switches. FLX I/O expansion modules are available in a variety of options to allow maximum flexibility in achieving the required point configuration.

Description	Order details	
	Type code	Order code
CBXi-8R8 IP B-BC: 16 I/O+12 Modbus BACnet IP programmable controller	1M102100	2CQG201001R1021
CBXi-8R8-H IP B-BC+HOA: 16 I/O+12 Modbus BACnet IP programmable controller + HOA	1M102102	2CQG201002R1021

ABB Cylon®

BACnet® Main Plant Controllers



CBX Series

CBX Series

The CBX Series is a freely programmable range of BACnet® Controllers with native MS/TP communications support. The controllers are BTL listed BACnet Advanced Application Controller (B-AAC) and are ideally suited for a wide range of applications for intelligent control of HVAC equipment, and electrical systems including lighting control and metering applications. The CBX-8R8 and CBX-8R8-H controllers support multi-protocol communications simultaneously including BACnet MS/TP and Modbus® RTU.
Part of Cylon's CB Line of BACnet field controllers, the CBX-8R8 controller features 8 UniPuts™ with Relay, 8 Universal Inputs, as well as support for up to three FLX (Field Level eXpansion) series extension modules providing up to 64 points of control, and a dedicated input for Cylon's CBT-STAT or UCU Room Display intelligent room sensors. The -H variant provides local override function through HOA switches. FLX I/O expansion modules are available in a variety of options to allow maximum flexibility in achieving the required point configuration.

Description	Order details	
	Type code	Order code
CBX-8R8 B-AAC: 16 I/O+4 Modbus BACnet MS/TP programmable control + HOA	1M100100	2CQG201003R1021
CBX-8R8-H B-AAC+HOA: 16 I/0+4 Modbus BACnet MS/TP programmable control + HOA	1M100102	2CQG201004R1021

ABB Cylon®

FBXi / CBXi / CBX Main Plant IO



FLX

Field Level eXpansion (FLX) modules

The FBXi Series is a freely programmable range of BACnet® Controllers with native BACnet/IP communications support. The controllers are BTL listed BACnet Building Controller (B-BC) and are ideally suited for a wide range of applications for intelligent control of HVAC equipment, and electrical systems including lighting control and metering applications. The FBXi Series controllers support multi-protocol communications simultaneously including BACnet/IP, BACnet MS/TP, Modbus® TCP and Modbus RTU. Part of the Cylon® FLXeon Line of BACnet field controllers, the FBXi Series controllers feature support for up to sixteen FLX (Field Level eXpansion) series extension modules providing up to 256 points of control, and a dedicated input for Cylon® room sensors. FLX I/O expansion modules are available in a variety of options to allow maximum flexibility in achieving the required point configuration.

Description	Order details	
	Type code	Order code
FLX-8R8-H I/O module for FBXi, CBXi, CBX 16-Point Field Level eXpansion + HOA	1M101102	2CQG200707R1021
FLX-8R8 I/O module for FBXi, CBXi, CBX 16-Point Field Level eXpansion	1M101100	2CQG200706R1021
FLX-4R4-H I/O module for FBXi, CBXi, CBX 8-Point Field Level eXpansion + HOA	1M101108	2CQG200705R1021
FLX-4R4 I/O module for FBXi, CBXi, CBX 8-Point Field Level eXpansion	1M101106	2CQG200704R1021
FLX-16DI I/O module for FBXi, CBXi, CBX 16-Digital Input Field Level eXpansion	1M101110	2CQG200703R1021

FLX-RMC

Remote Module Connectors are used to extend the FLX bus a total maximum of 100 ft. (30 m) from the main controller to facilitate remote mounting of FLX I/O modules.
2 x FLX-bus screw-terminal units and 1 x FLX-bus standard connector are included.

Description	Order details	
	Type code	Order code
FLX-RMC Extension for FLX I/O bus Remote Mounting Connectors (Pair)	1S9NT104	2CQG205801R1021



FLX

FLX-PS24

20 V DC Power supply module for FLX Field Level eXpansion IO modules and external field devices (using the FLX-RMC).

Description	Order details	
	Type code	Order code
FLX-PS24 20 V DC Power supply FLX Field Level eXpansion IO modules	1M101111	2CQG205601R1021



FLX-Bus

FLX-bus Interconnect

FLX-bus interconnect component, purchased separately

Description	Type code	Order code
	1S9NT101	2CQG206001R1021



FLX-Bus

FLX-bus Terminator

FLX-bus terminator component, purchased separately

Description	Type code	Order code
	1S9NT102	2CQG206002R1021

ABB Cylon®

BACnet®/IP Unitary Controllers



FBVi-2U4-4T

FBVi-2U4-4T

The FBVi-2U4-4T is a freely programmable BACnet® Unitary Controller with native BACnet/IP communications support. The controller is BTL listed as BACnet Building Controller (B-BC) and is ideally suited for the control of Variable Air Volume zoning applications.
Part of the Cylon® FLXeon Series of BACnet/IP field controllers, the FBVi-2U4-4T features 2 UniPuts™, 4 Universal Inputs and 4 Digital (Triac) Outputs, along with an integrated airflow sensor and a dedicated input for Cylon® room sensors. The FBVi-2U4-4T model includes an integrated Belimo actuator.

Description	Order details	
	Type code	Order code
FBVi-2U4-4T-IMP IP B-BC: 10 I/O+Actuator	1M710101	2CQG201015R1021
FBVi-2U4-4T-SI IP B-BC: 10 I/O+Actuator	1M710121	2CQG201016R1021
FBVi-2U4-4T-FA-IMP IP B-BC: VAV 10 I/O+ACT		2CQG201020R1011
FBVi-2U4-4T-FA-SI IP B-BC: VAV 10 I/O+ACT		2CQG201021R1011

ABB Cylon®

BACnet® Unitary Controllers



CBT-4T4-2U1R

CBT-4T4-2U1R

11 point BACnet® B-AAC programmable controller for terminal applications such as fan coil units with EC motors, heat pumps, unit ventilators and chilled ceilings.
Controller features 4 UniPuts™ with Triac outputs (software configured for AI, AO, DI or DO-T (Triac), 4 UI, 2 Uniputs and 1 x 8A mains rated Digital (high in-rush current relay) Output.
Freely programmable, no pre-loaded strategy.

Description	Order details	
	Type code	Order code
CBT-4T4-2U1R B-AAC TU control: 11 I/O 11 point BACnet programmable controller	1M610105	2CQG201308R1021



CBT-3T6-5R

CBT-3T6-5R

The CBT-3T6-5R is a freely programmable BACnet® Unitary Controller with native MS/TP communications support. The controller is BTL listed as a BACnet Advanced Application Controller (B-AAC) and is ideally suited for Rooftop HVAC units, Fan Coil Units, Heat Pumps, Unit Ventilators, and custom unitary equipment control.
Part of Cylon's CB Line of BACnet field controllers, the CBT-3T6-5R provides 3 UniPuts™ with Triac (configurable as inputs or outputs), 6 Universal Inputs, 5 Digital (Relay) Outputs and a dedicated input for Cylon's CBT-STAT or UCU Room Display intelligent room sensors.

Description	Order details	
	Type code	Order code
CBT-3T6-5R-HP-IMP BACnet B-AAC programmable terminal unit controller with Heat-Pump strategy (imperial units): 14 point	1M810115	2CQG201302R1021
CBT-3T6-5R-HP-SI BACnet B-AAC programmable terminal unit controller with Heat-Pump strategy (SI units): 14 point	1M810110	2CQG201303R1021
CBT-3T6-5R-RTU-IMP BACnet B-AAC programmable terminal unit controller with preloaded RTU strategy (imperial units): 14 point	1M810112	2CQG201304R1021
CBT-3T6-5R-RTU-SI BACnet B-AAC programmable terminal unit controller with preloaded RTU strategy (SI units): 14 point	1M810111	2CQG201305R1021
CBT-3T6-5R-FA-HP-IMP BACnet B-AAC programmable terminal unit controller with Heat-Pump strategy (imperial units) FusionAir Compatible: 14 point		2CQG201312R1011
CBT-3T6-5R-FA-HP-SI BACnet B-AAC programmable terminal unit controller with Heat-Pump strategy (SI units) Fusion AirCompatible: 14 point		2CQG201313R1011
CBT-3T6-5R-FA-RTU-IMP BACnet B-AAC programmable terminal unit controller with preloaded RTU strategy (imperial units) FusionAir Compatible: 14 point		2CQG201314R1011
CBT-3T6-5R-FA-RTU-SI BACnet B-AAC programmable terminal unit controller with preloaded RTU strategy (SI units) FusionAir Compatible: 14 point		2CQG201315R1011

ABB Cylon®

BACnet® Unitary Controllers



CBV Series

CBV Series

The CBV Series is a freely programmable range of BACnet® Unitary Controllers with native MS/TP communications support. The controllers are BTL listed as BACnet Advanced Application Controllers (B-AAC) and are ideally suited for the control of Variable Air Volume zoning applications.

Part of Cylon's CB Line of BACnet field controllers, the CBV Series features 2 UniPuts™, 4 Universal Inputs and 3 Digital (Triac) Outputs, along with an integrated airflow sensor and a dedicated input for Cylon's CBT-STAT or UCU Room Display intelligent room sensors. The CBT-2U4-3T model includes an integrated Belimo actuator. The -N variant has a facility for connection to an external actuator.

Description	Order details	
	Type code	Order code
CBV-2U4-3T-IMP BACnet B-AAC single-duct VAV controller with actuator. Pre-loaded strategy (imperial units)	1M710116	2CQG201510R0021
CBV-2U4-3T-N-IMP BACnet B-AAC single-duct VAV terminal unit controller without actuator. Pre-loaded strategy (imperial units)	1M710118	2CQG201511R0021
CBV-2U4-3T-N-SI B-AAC VAV no act (SI) BACnet 1-duct VAV control / No actuator	1M710117	2CQG201512R0021
CBV-2U4-3T-SI B-AAC VAV incl act (SI) BACnet 1-duct VAV control + No actuator	1M710115	2CQG201513R0021
CBV-2U4-3T-FA-IMP B-AAC VAV incl act IMP) FusionAir support		2CQG201515R1011
CBV-2U4-3T-N-FA-IMP B-AAC VAV no act (IMP) FusionAir support		2CQG201516R1011
CBV-2U4-3T-N-SI B-AAC VAV no act (SI) FusionAir support BACnet 1-duct VAV control / No actuator		2CQG201517R1011
CBV-2U4-3T-SI B-AAC VAV incl act (SI) FusionAir support BACnet 1-duct VAV control + No actuator		2CQG201518R1011

ABB Cylon®

BACnet® Engineering Software



Description	Order details	
	Type code	Order code
CXproHD-CD CD containing CXproHD software (requires CXPROHD-D for dongle key) application provides all tools for integrators to quickly develop operational strategies for the ABB Cylon® CB Line of BACnet® controllers and allows sites to be designed, configured, tested, engineered, commissioned and maintained.	1M4UC146	2CQG203401S3021



CXP-SI Download-able software (Ships without CD) with Software License Key. Software application provides all tools for Integrators to quickly develop operational strategies for the ABB Cylon CB Line of BACnet® controllers and allows sites to be designed, configured, tested, engineered, commissioned and maintained.	1M4SW491	2CQG203402S3021



CXP-SI-A Additional Software License Key. Download-able software (requires CXPROHD-D and ships without CD) with Software License Key. Software application provides all tools for Integrators to quickly develop operational strategies for the ABB Cylon CB Line of BACnet® controllers and allows sites to be designed, configured, tested, engineered, commissioned and maintained. Software application provides all tools for Integrators to quickly develop operational strategies for the ABB Cylon CB Line of BACnet® controllers and allows sites to be designed, configured, tested, engineered, commissioned and maintained.	1M4SW493	2CQG203403S3021



CEC BACnet® - Licence



CEC BACnet® - Additional

Description	Order details	
	Type code	Order code
CEC BACnet® - Licence Programming software licence for ABB Cylon® BACnet® System. For use by registered ABB Cylon® system integrators only. Not for resale. Not licensed for permanent site installations. Requires initial and annual registration.	1M4SW490	2CQG203406S3021
CEC BACnet® - Additional Additional licence for use of the ABB Cylon® Engineering Centre programming software including BACnet® features. For use by registered ABB Cylon® system integrators only. Not for resale. Not licensed for permanent site installations. Requires initial and annual registration	1M4SW520	2CQG203407S3021

INTEGRA™ IT-8000 (EMEA & FE)



Part of the INTEGRA™ family, the IT-8000 is an embedded Internet of Things (IoT), BTL-listed BACnet® Building Controller (B-BC) that connects to ABB's Cylon BACnet field controllers. The IT-8000 is also capable of connection to and network management of a variety of diverse devices and subsystems using various protocols including, but not limited to, Modbus™ and LonWorks™.
When connected to an Ethernet or wireless LAN, the IT-8000 uses Internet connectivity and web-serving capability to provide integrated control, supervision, network management, scheduling, data logging, alarming, and rich graphical displays through a standard Web browser.

	Order details	
Description	**Type code**	**Order code**
Bundled IT-8000 with America WLAN Country Code WiFi enabled. Includes core license for 250 points. Made up of IT-8000-WIFI + IT8-005-COR-E + IT8-005-SM0.	IT-8005-USWIFI-E	2CQG150114R4011
Bundled IT-8000 with Worldwide WLAN Code WiFi enabled. Includes core license for 250 points. Made up of IT-8000-WIFI + IT8-005-COR-E + IT8-005-SM0.	IT-8005-WWWIFI-E	2CQG150115R4011
Bundled IT-8000 with America WLAN Country Code WiFi enabled. Includes core license for 500 points. Made up of IT-8000-WIFI + IT8-010-COR-E + IT8-010-SM0.	IT-8010-USWIFI-E	2CQG150116R4011
Bundled IT-8000 with Worldwide WLAN Code WiFi enabled. Includes core license for 500 points. Made up of IT-8000-WIFI + IT8-010-COR-E + IT8-010-SM0.	IT-8010-WWWIFI-E	2CQG150117R4011
Bundled IT-8000 with America WLAN Country Code WiFi enabled. Includes includes core license for 1250 points. Made up of IT-8000-WIFI + IT8-025-COR-E + IT8-025-SM0.	IT-8025-USWIFI-E	2CQG150118R4011
Bundled IT-8000 with Worldwide WLAN Code WiFi enabled. Includes includes core license for 1250 points. Made up of IT-8000-WIFI + IT8-025-COR-E + IT8-025-SM0.	IT-8025-WWWIFI-E	2CQG150119R4011
Bundled IT-8000 with America WLAN Country Code WiFi enabled. Includes core license for 5000 points. Made up of IT-8000-WIFI + IT8-100-COR-E + IT8-100-SM0.	IT-8100-USWIFI-E	2CQG150120R4011
Bundled IT-8000 with Worldwide WLAN Code WiFi enabled. Includes core license for 5000 points. Made up of IT-8000-WIFI + IT8-100-COR-E + IT8-100-SM0.	IT-8100-WWWIFI-E	2CQG150121R4011
Bundled IT-8000 with America WLAN Country Code WiFi enabled. Includes core license for 10000 points. Made up of IT-8000-WIFI + IT8-200-COR-E + IT8-200-SM0.	IT-8200-USWIFI-E	2CQG150122R4011
Bundled IT-8000 with Worldwide WLAN Code WiFi enabled. Includes core license for 10000 points. Made up of IT-8000-WIFI + IT8-200-COR-E + IT8-200-SM0.	IT-8200-WWWIFI-E	2CQG150123R4011

INTEGRA™ IT-8000 (EMEA & FE)



Description	Order details	
	Type code	Order code
IT-8000 initial device capacity pack license. Purchased at time of initial order with core software. Adds support for an additional 500 points to the core (IT8-XXX-COR).	IT8-010-DCP-E	2CQG150123S4061
IT-8000 device capacity upgrade license. Purchased any time after initial core software purchase. Adds support for an additional 500 points to the core (IT8-XXX-COR-E).	IT8-010-DCU-E	2CQG150124S4061
Annual support fee and renewal of Demo equipment and Workbench licences. The fee for this part includes the annual fee for the Self-Licensing Extension Service and Marketplace Prime package. All rights to the Marketplace package are conditioned on agreement to the Niagara Marketplace Terms and Conditions of Use.	IT8-DEMO-SUP-R-E	2CQG150125R4011
Bundled IT-8000 with WiFi DISABLED. Includes core license for 250 points. Made up of IT-8000-NOWIFI + IT8-005-COR-E + IT8-005-SM0.	IT-8005-NOWIFI-E	2CQG150126R4011
IT-8000 initial device capacity pack license. Purchased at time of initial order with core software. Adds support for an additional 1,250 points to the core (IT8-XXX-COR-E).	IT8-025-DCP-E	2CQG150126S4061
Bundled IT-8000 with WiFi DISABLED. Includes core license for 500 points. Made up of IT-8000-NOWIFI + IT8-010-COR-E + IT8-010-SM0.	IT-8010-NOWIFI-E	2CQG150127R4011
IT-8000 field capacity upgrade license. Purchased any time after initial core software purchase. Adds support for an additional 1,250 points to the core (IT8-XXX-COR-E).	IT8-025-DCU-E	2CQG150127S4061
Bundled IT-8000 with WiFi DISABLED. Includes core license for 1250 points. Made up of IT-8000-NOWIFI + IT8-025-COR-E + IT8-025-SM0.	IT-8025-NOWIFI-E	2CQG150128R4011
IT-8000 initial device capacity pack license. Purchased at time of initial order with core software. Adds support for an additional 2,500 points to the core (IT8-XXX-COR).	IT8-050-DCP-E	2CQG150128S4061
Bundled IT-8000 with WiFi DISABLED. Includes core license for 5000 points. Made up of IT-8000-NOWIFI + IT8-100-COR-E + IT8-100-SM0.	IT-8100-NOWIFI-E	2CQG150129R4011
IT-8000 field capacity upgrade license. Purchased any time after initial core software purchase. Adds support for an additional 2,500 points to the core (IT8-XXX-COR-E).	IT8-050-DCU-E	2CQG150129S4061
Bundled IT-8000 with WiFi DISABLED. Includes core license for 10000 points. Made up of IT-8000-NOWIFI + IT8-200-COR-E + IT8-200-SM0.	IT-8200-NOWIFI-E	2CQG150130R4011
IT-8000 driver for Andover Controls AC256 over RS-232 or RS-485. (Beta version only)	IT8-DR-AC	2CQG150301S4061

INTEGRA™ IT-8000 (EMEA & FE)



Description	Order details	
	Type code	Order code
IT-8000 driver for American Auto-Matrix PHP over RS-232 or RS-485. Manufactured by 3rd party. Limited support.	IT8-DR-APHP	2CQG150303S4061
IT-8000 driver for American Auto-Matrix PUP over RS-232 or RS-485. Manufactured by 3rd party. Limited support.	IT8-DR-APUP	2CQG150304S4061
DEMO VERSION of INTEGRA IT-8000 controller includes 2 EIA-485 ports, configurable for 9.6 to 115.2 kbps. Support for 2 RS-485 protocols (BACnet MS/TP, LON, Modbus RTU, AAM PUP). Two RJ-45 10/100 MB Ethernet with TCP/IP support for FOX, BACnet/IP, and Modbus TCP. WiFi connectivity 802.11 a/b/g/n. Web Interface, embedded Workbench, integrated power supply and USB backup and restore. Includes core DEMO license file with support of up to 500 devices or 25,000 points and all standard drivers.	IT8-DEMO-E	2CQG150124R4011
IT-8000 driver for Flex over RS-232 or RS-485.	IT8-DR-FLEX	2CQG150306S4061
IT-8000 JSON Toolkit. Requires IT-8000 and valid Software Maintenance agreement.	IT8-DR-JSON	2CQG150311S4061
IT-8000 driver for McQuay to OPM driver.	IT8-DR-MCQUAY	2CQG150312S4061
IT-8000 driver for Micros Fidelio IP driver.	IT8-DR-MFID	2CQG150313S4061
Provides FIPS 140-2 Level 1 conformance using the integrated FIPS certified BouncyCastle module for IT-8000. Requires IT-8000 version 4.6 and later.	IT8-FIPS	2CQG150315S4061
IT-8000 SMS Alarm driver. Enables SMS alarms to be sent to any mobile phone via a GSM/GPRS modem connected to the RS-232 serial port driver. Supported in AX version 3.8U1 only. Not Available for N4.	IT8-DR-SMSALM	2CQG150317S4061
IT-8000 add-on single port LON FTT10A module	IT8-NPB-LON	2CQG155803P2061
IT-8000 add-on dual port RS-485 module	IT8-NPB-2X-485	2CQG155804P2061
IT-8000 add-on single port RS-232 module	IT8-NPB-232	2CQG155805P2061
IT-8000 wall plug module. 100-240 VAC, 50/60 Hz. Connect to the 2.5 mm barrel plug, 24 V input to the IT-8000 and includes, US, EU, UK and AU plugs	IT8-WPM	2CQG155806P2061
IT-8000 driver for Carrier Comfort Network	IT8-DR-CCN	2CQG150305S4061
IT-8000 driver for Flex over RS-232 or RS-485	IT8-DR-FLEX	2CQG150306S4061
IT-8000 driver for McQuay to OPM driver	IT8-DR-MCQUA	2CQG150312S4061
IT-8000 driver for Micros Fidelio IP driver.	IT8-DR-MFID	2CQG150313S4061

INTEGRA™ IT-8000 (NA)



Part of the INTEGRA™ family, the IT-8000 is an embedded Internet of Things (IoT), BTL-listed BACnet® Building Controller (B-BC) that connects to ABB's Cylon BACnet field controllers. The IT-8000 is also capable of connection to and network management of a variety of diverse devices and subsystems using various protocols including, but not limited to, Modbus™ and LonWorks™.
When connected to an Ethernet or wireless LAN, the IT-8000 uses Internet connectivity and web-serving capability to provide integrated control, supervision, network management, scheduling, data logging, alarming, and rich graphical displays through a standard Web browser.

	Order details	
Description	**Type code**	**Order code**
IT-8000 add-on single port RS-232 module	IT8-NPB-232	2CQG150201R2011
IT-8000 add-on dual port RS-485 module	IT8-NPB-2X-485	2CQG150202R2011
IT-8000 add-on single port LON FTT10A module	IT8-NPB-LON	2CQG150203R2011
IT-8000 extension cable and bracket for WLAN antenna	IT8-WIFI-EXT	2CQG150204R2011
IT-8000 wall plug module. 100-240 VAC, 50/60 Hz. Connect to the 2.5 mm barrel plug, 24 V input to the IT-8000 and includes, US, EU, UK and AU plugs	IT8-WPM	2CQG150205R2011
INTEGRA N4 network controller with embedded webserver includes 2 isolated RS-485 ports, configurable for 9.6 to 115.2 kbps. Support for 2 RS-485 protocols (BACnet MS/TP, LON, Modbus RTU). Two RJ-45 10/100 MB Ethernet with TCP/IP support for FOX, BACnet/IP, and Modbus TCP. WiFi connectivity 802.11 a/b/g/n (US WLAN Country Code). Web Interface, embedded Workbench, integrated power supply and USB backup and restore.	IT-8000-USWIFI	2CQG150101R2011
INTEGRA N4 network controller with embedded webserver includes 2 isolated RS-485 ports, configurable for 9.6 to 115.2 kbps. Support for 2 RS-485 protocols (BACnet MS/TP, LON, Modbus RTU). Two RJ-45 10/100 MB Ethernet with TCP/IP support for FOX, BACnet/IP, and Modbus TCP. WiFi connectivity 802.11 a/b/g/n (Worldwide WLAN Code). Web Interface, embedded Workbench, integrated power supply and USB backup and restore.	IT-8000-WWWIFI	2CQG150102R2011
IT-8000 initial device capacity pack license. Purchased at time of initial order with core software. Adds support for an additional 1 device or 50 points to the core (IT8-XXX-COR).	IT8-001-DCP	2CQG150105S4061
IT-8000 device capacity upgrade license. Purchased any time after initial core software purchase. Adds support for an additional 1 device or 50 points to the core (IT8-XXX-COR).	IT8-001-DCU	2CQG150106S4061
IT-8000 device core software license file. Adds support for up to 5 devices or 250 points. Requires IT-8000 & IT8-005-SM0	IT8-005-COR	2CQG150107S4061

INTEGRA™ IT-8000 (NA)



Description	Order details	
	Type code	Order code
IT-8000 device capacity upgrade license. Purchased any time after initial core software purchase. Adds support for an additional 5 devices or 250 points to the core (IT8-XXX-COR).	IT8-005-DCU	2CQG150109S4061
Bundled IT-8000 with America WLAN Country Code WiFi enabled. Includes core license for 5 devices or 250 points. Made up of IT-8000-WIFI + IT8-005-COR + IT8-005-SM0.	IT-8005-USWIFI	2CQG150103R2011
Bundled IT-8000 with Worldwide WLAN Code WiFi enabled. Includes core license for 5 devices or 250 points. Made up of IT-8000-WIFI + IT8-005-COR + IT8-005-SM0.	IT-8005-WWWIFI	2CQG150104R2011
IT-8000 device core software license file. Adds support for up to 10 devices or 500 points. Requires IT-8000 & IT8-010-SM0	IT8-010-COR	2CQG150110S4061
IT-8000 initial device capacity pack license. Purchased at time of initial order with core software. Adds support for an additional 10 devices or 500 points to the core (IT8-XXX-COR).	IT8-010-DCP	2CQG150111S4061
IT-8000 device capacity upgrade license. Purchased any time after initial core software purchase. Adds support for an additional 10 devices or 500 points to the core (IT8-XXX-COR).	IT8-010-DCU	2CQG150112S4061
Bundled IT-8000 with America WLAN Country Code WiFi enabled. Includes core license for 10 devices or 500 points. Made up of IT-8000-WIFI + IT8-010-COR + IT8-010-SM0.	IT-8010-USWIFI	2CQG150105R2011
Bundled IT-8000 with Worldwide WLAN Code WiFi enabled. Includes core license for 10 devices or 500 points. Made up of IT-8000-WIFI + IT8-010-COR + IT8-010-SM0.	IT-8010-WWWIFI	2CQG150106R2011
IT-8000 device core software license file. Adds support for up to 25 devices or 1,250 points. Requires IT-8000 & IT8-025-SM0	IT8-025-COR	2CQG150113S4061
IT-8000 initial device capacity pack license. Purchased at time of initial order with core software. Adds support for an additional 25 devices or 1,250 points to the core (IT8-XXX-COR).	IT8-025-DCP	2CQG150114S4061
IT-8000 field capacity upgrade license. Purchased any time after initial core software purchase. Adds support for an additional 25 devices or 1,250 points to the core (IT8-XXX-COR).	IT8-025-DCU	2CQG150115S4061
Bundled IT-8000 with America WLAN Country Code WiFi enabled. Includes includes core license for 25 devices or 1250 points. Made up of IT-8000-WIFI + IT8-025-COR + IT8-025-SM0.	IT-8025-USWIFI	2CQG150107R2011

INTEGRA™ IT-8000 (NA)



Description	Order details	
	Type code	Order code
IT-8000 initial device capacity pack license. Purchased at time of initial order with core software. Adds support for an additional 50 devices or 2,500 points to the core (IT8-XXX-COR).	IT8-050-DCP	2CQG150116S4061
IT-8000 field capacity upgrade license. Purchased any time after initial core software purchase. Adds support for an additional 50 devices or 2,500 points to the core (IT8-XXX-COR).	IT8-050-DCU	2CQG150117S4061
Enables IT-8000 to run NiagaraAX operating system instead of N4.	IT8-0S-AX	2CQG150118S4061
IT-8000 device core software license file. Adds support for up to 100 devices or 5,000 points. Requires IT-8000 & IT8-100-SM0	IT8-100-COR	2CQG150119S4061
Bundled IT-8000 with America WLAN Country Code WiFi enabled. Includes core license for 100 devices or 5000 points. Made up of IT-8000-WIFI + IT8-100-COR + IT8-100-SM0.	IT-8100-USWIFI	2CQG150109R2011
Bundled IT-8000 with Worldwide WLAN Code WiFi enabled. Includes core license for 100 devices or 5000 points. Made up of IT-8000-WIFI + IT8-100-COR + IT8-100-SM0.	IT-8100-WWWIFI	2CQG150110R2011
IT-8000 device core software license file. Adds support for up to 200 devices or 10,000 points. Requires IT-8000 & IT8-200-SM0	IT8-200-COR	2CQG150120S4061
Bundled IT-8000 with America WLAN Country Code WiFi enabled. Includes core license for 200 devices or 10000 points. Made up of IT-8000-WIFI + IT8-200-COR + IT8-200-SM0.	IT-8200-USWIFI	2CQG150111R2011
Bundled IT-8000 with Worldwide WLAN Code WiFi enabled. Includes core license for 200 devices or 10000 points. Made up of IT-8000-WIFI + IT8-200-COR + IT8-200-SM0.	IT-8200-WWWIFI	2CQG150112R2011
DEMO VERSION of INTEGRA IT-8000 controller includes 2 EIA-485 ports, configurable for 9.6 to 115.2 kbps. Support for 2 RS-485 protocols (BACnet MS/TP, LON, Modbus RTU, AAM PUP). Two RJ-45 10/100 MB Ethernet with TCP/IP support for FOX, BACnet/IP, and Modbus TCP. WiFi connectivity 802.11 a/b/g/n. Web Interface, embedded Workbench, integrated power supply and USB backup and restore. Includes core DEMO license file with support of up to 500 devices or 25,000 points and all standard drivers.	IT8-DEMO	2CQG150113R2011
IT-8000 driver that enables control of IR controlled AV equipment via an RS-232 connection to a Global Cache FC module. Requires IT8-OS-AX. Supported in AX version 3.8U1 only.	IT8-DR-GLOB	2CQG150307S4061

INTEGRA™ IT-8000 (NA)



Description	Order details	
	Type code	Order code
IT-8000 driver for European Hortsmann meters. Requires IT8-OS-AX. Supported in AX version 3.8U1 only.	IT8-DR-HORT	2CQG150309S4061
IT-8000 driver for Josam Grease Trap Sensor. Requires IT8-OS-AX. Supported in AX version 3.8U1 only.	IT8-DR-JOS	2CQG150310S4061
IT-8000 driver for Lang Oven over RS-232 or RS-485. Requires IT8-OS-AX. Supported in AX version 3.8U1 only.	IT8-DR-LANGOVN	2CQG150316S4061
IT-8000 driver for Veeder-Root over RS-232 or RS-485. Requires IT8-OS-AX. Supported in AX version 3.8U1 only.	IT8-DR-VDRT	2CQG150314S4061
IT-8000 Expansion Module Accessory Kit. Includes (2) RS-485 and (1) LON-FTT10A connectors.	IT8-EM-OPTKIT	2CQG155809P2061
IT-8000 DIN Rail Mounting Power Supply Unit. 90-240VAC 20VA.	IT8-PMD20VA	2CQG155801P2061
IT-8000 DIN Rail Mounting Power Supply Unit. 90-240VAC 30VA.	IT8-PMD30VA	2CQG155802P2061
IT-8000 WIFI Accessory Kit. Includes 2.4/5GHz Antenna, power and (2) RS-485 connectors.	IT8-WIFI-KIT	2CQG155807P2061

INTEGRA™ IT-8000 Software Maintenance Agreements



Description	Order details	
	Type code	Order code
IT-8000 software maintenance agreement. 18 month software maintenance agreement for core software IT8-005-COR.	IT8-005-SM0	2CQG153601S4061
IT-8000 software maintenance agreement. 1 year software maintenance agreement for core software IT8-005-COR.	IT8-005-SM1	2CQG153602S4061
IT-8000 software maintenance agreement. 3 year software maintenance agreement for core software IT8-005-COR.	IT8-005-SM3	2CQG153603S4061
IT-8000 software maintenance agreement. 5 year software maintenance agreement for core software IT8-005-COR.	IT8-005-SM5	2CQG153604S4061
IT-8000 software maintenance agreement. 18 month software maintenance agreement. Must be purchased in conjunction with initial core software IT8-010-COR. Optional 3 or 5 year maintenance may be substituted.	IT8-010-SM0	2CQG153605S4061
IT-8000 software maintenance agreement. 1 year software maintenance agreement for core software IT8-010-COR.	IT8-010-SM1	2CQG153606S4061
IT-8000 software maintenance agreement. 3 year software maintenance agreement for core software IT8-010-COR.	IT8-010-SM3	2CQG153607S4061
IT-8000 software maintenance agreement. 5 year software maintenance agreement for core software IT8-010-COR.	IT8-010-SM5	2CQG153608S4061
IT-8000 software maintenance agreement. 18 month software maintenance agreement. Must be purchased in conjunction with initial core software IT8-025-COR. Optional 3 or 5 year maintenance may be substituted.	IT8-025-SM0	2CQG153609S4061
IT-8000 software maintenance agreement. 1 year software maintenance agreement for core software IT8-025-COR.	IT8-025-SM1	2CQG153610S4061
IT-8000 software maintenance agreement. 3 year software maintenance agreement for core software IT8-025-COR.	IT8-025-SM3	2CQG153611S4061
IT-8000 software maintenance agreement. 18 month software maintenance agreement. Must be purchased in conjunction with initial core software IT8-100-COR. Optional 3 or 5 year maintenance may be substituted.	IT8-100-SM0	2CQG153613S4061
IT-8000 software maintenance agreement. 1 year software maintenance agreement for core software IT8-100-COR.	IT8-100-SM1	2CQG153614S4061
IT-8000 software maintenance agreement. 3 year software maintenance agreement for core software IT8-100-COR.	IT8-100-SM3	2CQG153615S4061

INTEGRA™ IT-8000 Software Maintenance Agreements



Description	Order details	
	Type code	Order code
IT-8000 software maintenance agreement. 18 month software maintenance agreement. Must be purchased in conjunction with initial core software IT8-200-COR. Optional 3 or 5 year maintenance may be substituted.	IT8-200-SM0	2CQG153617S4061
IT-8000 software maintenance agreement. 1 year software maintenance agreement for core software IT8-200-COR.	IT8-200-SM1	2CQG153618S4061
IT-8000 software maintenance agreement. 3 year software maintenance agreement for core software IT8-200-COR.	IT8-200-SM3	2CQG153619S4061
IT-8000 software maintenance agreement. 5 year software maintenance agreement for core software IT8-200-COR.	IT8-200-SM5	2CQG153620S4061

INTEGRA-Supervisor (EMEA & FE)



BTL-listed as an BACnet® Advanced Operator Workstation (B-AWS) and BACnet Operator Workstation (B-OWS), the INTEGRA-Supervisor is an enterprise management server class software solution that connects multiple INTEGRA™-based IT-8000 controllers, along with other IP-based controllers and field devices, to be networked together. It serves real-time graphical information to standard web-browser clients and provides server-level functions. These functions include centralized data logging/trending, archiving to external databases, alarming, dashboarding, system navigation, master scheduling, database management and integration with other enterprise software applications through an XML interface (oBIX standard). Additionally, the INTEGRA-Supervisor includes a comprehensive graphical engineering toolset for application development.

	Order details	
Description	**Type code**	**Order code**
DEMO VERSION of INTEGRA-Supervisor software for Windows OS. Includes all available drivers. License will renew annually with the receipt of annual support fee. NOTE: Demo Licenses for partner engineering and demo use only. Not for end user sales.	ITS-DEMO	2CQG150501S4061
INTEGRA-Supervisor CSV database driver. Requires ITS-XXX-SUP	ITS-DR-CSV	2CQG150502S4061
INTEGRA-Supervisor MYSQL database driver. Requires ITS-XXX-SUP	ITS-DR-MYSQL	2CQG150503S4061
INTEGRA-Supervisor Oracle 11G database driver. Requires ITS-XXX-SUP	ITS-DR-ORCL	2CQG150505S4061
INTEGRA-Supervisor JSON Toolkit for Supervisor (SMA Required)	ITS-DR-JSON	2CQG150507S4061
INTEGRA-Supervisor software core with support for 0 Niagara network connections. Includes standard drivers. Requires ITS-000-SM0. Typically used to manage TCP/IP field devices (requires ITS-XXX-DIP)	ITS-000-SUP	2CQG153202S4061
Adds one additional Niagara connection to INTEGRA-Supervisor core ITS-000-SUP to ITS-100-SUP	ITS-001-ADD	2CQG153203S4061
INTEGRA-Supervisor software core with support for 1 Niagara network connection. Includes standard drivers. Requires ITS-001-SM0.	ITS-001-SUP	2CQG153204S4061
INTEGRA-Supervisor software core with support for 10 Niagara network connections. Includes standard drivers. Requires ITS-010-SM0.	ITS-010-SUP	2CQG153209S4061
INTEGRA-Supervisor software core with support for 100 Niagara network connections. Includes standard drivers. Requires ITS-100-SM0.	ITS-100-SUP	2CQG153214S4061
INTEGRA-Supervisor upgrade to ITS-100-SUP from ITS-000-SUP to ITS-010-SUP. Will maintain any ITS-001-ADD that were added to original core (ITS-XXX-N4)	ITS-100-UPG	2CQG153215S4061
INTEGRA-Supervisor Alarm Console client. Support for Niagara alarm monitoring.	ITS-ALM-CNSL	2CQG153218S4061

INTEGRA-Supervisor (EMEA & FE)



Description	Order details	
	Type code	Order code
INTEGRA-Supervisor upgrade from ITS-100-SUP to ITS-UNL-SUP	ITS-UNL-UPG	2CQG153222S4061
INTEGRA-Supervisor software core with support for unlimited Niagara network connections. Includes standard drivers. Requires ITS-UNL-SM0.	ITS-UNL-SUP	2CQG153221S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 500 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-010-DIP-E	2CQG153232S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 1,250 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-025-DIP-E	2CQG153233S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 2,500 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-050-DIP-E	2CQG153234S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 50,000 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-1000-DIP-E	2CQG153235S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 100 non-Niagara devices or 5,000 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-100-DIP-E	2CQG153236S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 10,000 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-200-DIP-E	2CQG153237S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 25,000 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-500-DIP-E	2CQG153238S4061
INTEGRA-ProPack License File. Supports up to 5 devices on non-Cylon IT-8000 or INTEGRA-Supervisor software. INTEGRA-ProPack is included at no cost on IT-8000 or INTEGRA-Supervisor software.	INT-PPACK-5	2CQG153401S4061
INTEGRA-ProPack License File. Supports up to 10 devices on non-Cylon IT-8000 or INTEGRA-Supervisor software. INTEGRA-ProPack is included at no cost on IT-8000 or INTEGRA-Supervisor software.	INT-PPACK-10	2CQG153402S4061
INTEGRA-ProPack License File. Supports up to 25 devices on non-Cylon IT-8000 or INTEGRA-Supervisor software. INTEGRA-ProPack is included at no cost on IT-8000 or INTEGRA-Supervisor software.	INT-PPACK-25	2CQG153403S4061

INTEGRA-Supervisor (EMEA & FE)



Description	Order details	
	Type code	Order code
INTEGRA-ProPack License File. Supports up to 50 devices on non-Cylon IT-8000 or INTEGRA-Supervisor software. INTEGRA-ProPack is included at no cost on IT-8000 or INTEGRA-Supervisor software.	INT-PPACK-50	2CQG153404S4061
INTEGRA-ProPack License File. Supports up to 100 devices on non-Cylon IT-8000 or INTEGRA-Supervisor software. INTEGRA-ProPack is included at no cost on IT-8000 or INTEGRA-Supervisor software.	INT-PPACK-100	2CQG153405S4061
INTEGRA-ProPack License File. Supports up to 20 devices on non-Cylon IT-8000 or INTEGRA-Supervisor software. INTEGRA-ProPack is included at no cost on IT-8000 or INTEGRA-Supervisor software.	INT-PPACK-200	2CQG153406S4061

INTEGRA-Supervisor (EMEA & FE)



Description	Order details	
	Type code	Order code
INTEGRA-Supervisor software maintenance agreement. 18 month software maintenance agreement. Must be purchased in conjunction with initial core software ITS-000-SUP. Optional 3 or 5 year maintenance may be substituted.	ITS-000-SM0	2CQG153621S4061
INTEGRA-Supervisor software maintenance agreement. 1 year software maintenance agreement for core software ITS-000-SUP.	ITS-000-SM1	2CQG153622S4061
INTEGRA-Supervisor software maintenance agreement. 3 year software maintenance agreement for core software ITS-000-SUP.	ITS-000-SM3	2CQG153623S4061
INTEGRA-Supervisor software maintenance agreement. 5 year software maintenance agreement for core software ITS-000-SUP.	ITS-000-SM5	2CQG153624S4061
INTEGRA-Supervisor software maintenance agreement. 18 month software maintenance agreement. Must be purchased in conjunction with initial core software ITS-001-SUP. Optional 3 or 5 year maintenance may be substituted.	ITS-001-SM0	2CQG153625S4061
INTEGRA-Supervisor software maintenance agreement. 1 year software maintenance agreement for core software ITS-001-SUP.	ITS-001-SM1	2CQG153626S4061
INTEGRA-Supervisor software maintenance agreement. 3 year software maintenance agreement for core software ITS-001-SUP.	ITS-001-SM3	2CQG153627S4061
INTEGRA-Supervisor software maintenance agreement. 5 year software maintenance agreement for core software ITS-001-SUP.	ITS-001-SM5	2CQG153628S4061
INTEGRA-Supervisor software maintenance agreement. 18 month software maintenance agreement. Must be purchased in conjunction with initial core software ITS-010-SUP. Optional 3 or 5 year maintenance may be substituted.	ITS-010-SM0	2CQG153637S4061
INTEGRA-Supervisor software maintenance agreement. 1 year software maintenance agreement for core software ITS-010-SUP.	ITS-010-SM1	2CQG153638S4061
INTEGRA-Supervisor software maintenance agreement. 3 year software maintenance agreement for core software ITS-010-SUP.	ITS-010-SM3	2CQG153639S4061
INTEGRA-Supervisor software maintenance agreement. 5 year software maintenance agreement for core software ITS-010-SUP.	ITS-010-SM5	2CQG153640S4061
INTEGRA-Supervisor software maintenance agreement. 18 month software maintenance agreement. Must be purchased in conjunction with initial core software ITS-100-SUP. Optional 3 or 5 year maintenance may be substituted.	ITS-100-SM0	2CQG153641S4061

INTEGRA-Supervisor (EMEA & FE)



Description	Order details	
	Type code	Order code
INTEGRA-Supervisor software maintenance agreement. 1 year software maintenance agreement for core software ITS-100-SUP.	ITS-100-SM1	2CQG153642S4061
INTEGRA-Supervisor software maintenance agreement. 3 year software maintenance agreement for core software ITS-100-SUP.	ITS-100-SM3	2CQG153643S4061
INTEGRA-Supervisor software maintenance agreement. 5 year software maintenance agreement for core software ITS-100-SUP.	ITS-100-SM5	2CQG153644S4061
INTEGRA-Supervisor software maintenance agreement. 18 month software maintenance agreement. Must be purchased in conjunction with initial core software ITS-UNL-SUP. Optional 3 or 5 year maintenance may be substituted.	ITS-UNL-SM0	2CQG153645S4061
INTEGRA-Supervisor software maintenance agreement. 1 year software maintenance agreement for core software ITS-UNL-SUP.	ITS-UNL-SM1	2CQG153646S4061
INTEGRA-Supervisor software maintenance agreement. 3 year software maintenance agreement for core software ITS-UNL-SUP.	ITS-UNL-SM3	2CQG153647S4061
INTEGRA-Supervisor software maintenance agreement. 5 year software maintenance agreement for core software ITS-UNL-SUP.	ITS-UNL-SM5	2CQG153648S4061
License change fee to change an existing license at the request of the customer. Applies to all license changes for either IT-8000 or INTEGRA-Supervisor software, except when a driver, upgrade or other software is purchased.	IT-LIC-CHG	2CQG153701S4061



Description	Order details	
	Type code	Order code
Monthly Support fee and renewal of Demo equipment and Workbench licenses for new SI partner. Per month in first year before renewal.	INTEGRA-RENEW-2	2CQG153902S4061

INTEGRA-Supervisor (NA)



BTL-listed as an BACnet® Advanced Operator Workstation (B-AWS) and BACnet Operator Workstation (B-OWS), the INTEGRA-Supervisor is an enterprise management server class software solution that connects multiple INTEGRA™-based IT-8000 controllers, along with other IP-based controllers and field devices, to be networked together. It serves real-time graphical information to standard web-browser clients and provides server-level functions. These functions include centralized data logging/trending, archiving to external databases, alarming, dashboarding, system navigation, master scheduling, database management and integration with other enterprise software applications through an XML interface (oBIX standard). Additionally, the INTEGRA-Supervisor includes a comprehensive graphical engineering toolset for application development.

	Order details	
Description	**Type code**	**Order code**
INTEGRA-Supervisor software core with support for 2 Niagara network connections. Includes standard drivers. Requires ITS-002-SM0.	ITS-002-SUP	2CQG153205S4061
INTEGRA-Supervisor software core with support for 3 Niagara network connections. Includes standard drivers. Requires ITS-003-SM0.	ITS-003-SUP	2CQG153206S4061
Adds the ability for a ITS-000-SUP, ITS-001-SUP, ITS-002-SUP or ITS-003-SUP to run 5 additional stations. Typically used for small site multi-tenant options.	ITS-005-STN	2CQG153207S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 10 non-Niagara devices or 500 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-010-DIP	2CQG153208S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 25 non-Niagara devices or 1,250 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-025-DIP	2CQG153210S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 50 non-Niagara devices or 2,500 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-050-DIP	2CQG153211S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 1,000 non-Niagara devices or 50,000 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-1000-DIP	2CQG153212S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 100 non-Niagara devices or 5,000 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-100-DIP	2CQG153213S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 200 non-Niagara devices or 10,000 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-200-DIP	2CQG153216S4061
INTEGRA-Supervisor Device Integration Pack license. Adds support for 500 non-Niagara devices or 25,000 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP.	ITS-500-DIP	2CQG153217S4061

INTEGRA-Supervisor (NA)



Description	Order details	
	Type code	Order code
INTEGRA-Supervisor OPC Client over Ethernet database driver. Requires ITS-XXX-SUP. Available only for Windows OS.	ITS-DR-OPC-CL	2CQG150504S4061
INTEGRA-Supervisor Micros Fidelio Driver. Requires ITS-XXX-SUP.	ITS-DR-MFID	2CQG150508S4061
INTEGRA-Supervisor SQL database driver. Requires ITS-XXX-SUP	ITS-DR-SQL	2CQG150506S4061
Provides FIPS 140-2 Level 1 conformance using the integrated FIPS certified BouncyCastle module for N4 Supervisor. Requires ITS-XXX-SUP version 4.6 and later.	ITS-FIPS	2CQG150509S4061
Provides FIPS 140-2 Level 1 conformance using the integrated FIPS certified BouncyCastle module for N4 Supervisor. Requires ITS-XXX-SUP version 4.6 and later.	ITS-FIPS	2CQG153219S4061
Option to install a NiagaraAX based application on a N4 Supervisor (ITS-XXX-SUP). Supports NiagaraAX version 3.8 only.	ITS-OS-AX-SUP	2CQG153220S4061
DEMO VERSION of INTEGRA-Supervisor and Workbench Engineering Tool.	OFFICE-DEMO-PC	2CQG153239S4061
INTEGRA-Supervisor software maintenance agreement. 18 month software maintenance agreement. Must be purchased in conjunction with initial core software ITS-002-SUP. Optional 3 or 5 year maintenance may be substituted.	ITS-002-SM0	2CQG153629S4061
INTEGRA-Supervisor software maintenance agreement. 1 year software maintenance agreement for core software ITS-002-SUP.	ITS-002-SM1	2CQG153630S4061
INTEGRA-Supervisor software maintenance agreement. 3 year software maintenance agreement for core software ITS-002-SUP.	ITS-002-SM3	2CQG153631S4061
INTEGRA-Supervisor software maintenance agreement. 5 year software maintenance agreement for core software ITS-002-SUP.	ITS-002-SM5	2CQG153632S4061
INTEGRA-Supervisor software maintenance agreement. 18 month software maintenance agreement. Must be purchased in conjunction with initial core software ITS-003-SUP. Optional 3 or 5 year maintenance may be substituted.	ITS-003-SM0	2CQG153633S4061
INTEGRA-Supervisor software maintenance agreement. 1 year software maintenance agreement for core software ITS-003-SUP.	ITS-003-SM1	2CQG153634S4061
INTEGRA-Supervisor software maintenance agreement. 3 year software maintenance agreement for core software ITS-003-SUP.	ITS-003-SM3	2CQG153635S4061
INTEGRA-Supervisor software maintenance agreement. 5 year software maintenance agreement for core software ITS-003-SUP.	ITS-003-SM5	2CQG153636S4061

INTEGRA-Supervisor (NA)



Description	Order details	
	Type code	Order code
INTEGRA Annual Renewal Fee for Demo equipment and Workbench licences for SI partner.	INTEGRA-RENEW-1	2CQG153901S4061

ABB Cylon®

Unitron Main Plant Controllers



UC32.24

UC32.24

Programmable controller

- 8 Uniputs™
- 8 Uniputs™ + Relays
- 8 Universal Inputs
- Up to 16 controllers per fieldbus
- Flash upgradable firmware
- Time-stamped datalogs
- 1024 strategy blocks
- 32 datalogs with up to 1024 entries per datalog
- Max address = 16

Description	Type code	Order code
	1M160400	2CQG251011R1021



UC32.24K

UC32.24K

Programmable controller with internal display & keypad

- 8 Uniputs™
- 8 Uniputs™ + Relays
- 8 Universal Inputs
- Up to 16 controllers per fieldbus
- Flash upgradable firmware
- Time-stamped datalogs
- 1024 strategy blocks
- 32 datalogs with up to 1024 entries per datalog
- Max address = 16

Description	Type code	Order code
	1M160900	2CQG251015R1021



UC32.16

UC32.16

Programmable controller

- 8 Uniputs™ + Relays
- 8 Universal Inputs
- Up to 16 controllers per fieldbus
- Flash upgradable firmware
- Time-stamped datalogs
- 1024 strategy blocks
- 32 datalogs with up to 1024 entries per datalog
- Max address = 16

Description	Type code	Order code
	1M160300	2CQG251007R1021

ABB Cylon®

Unitron Main Plant Controllers



UC32.12

UC32.12

Programmable controller

- 4 Uniputs™ + Relays
- 8 Universal Inputs
- Up to 32 controllers per fieldbus
- Flash upgradable firmware
- Time-stamped datalogs
- 1024 strategy block
- 32 datalogs with up to 1024 entries per datalog
- Max address = 32

Description	Type code	Order code
	1M160200	2CQG251004R1021



UC32.8

UC32.8

Programmable controller

- 4 Uniputs™ + Relays
- 4 Universal Inputs
- Up to 32 controllers per fieldbus
- Flash upgradable firmware
- Time-stamped datalogs
- 1024 strategy blocks
- 32 datalogs with up to 1024 entries per datalog
- Max address = 32

Description	Type code	Order code
	1M160100	2CQG251001R1021

ABB Cylon®

Unitron Unitary Controllers



UCU10FC/K

UCU10FC/K

Programmable unitary controller with interface for UCU Room Display.

- 3 Universal Inputs
- 2 Universal Outputs
- 2 Triac Outputs
- 3 Relay Digital Outputs
- Up to 63 controllers per fieldbus
- 190 strategy blocks
- 4 datalogs with up to 102 entries per datalog
- Data security
- Max address = 63

Description	Type code	Order code
	1M320135	2CQG251303R1021

ABB Cylon®

Unitron Communications Controllers



UC32.netK

UC32.netK

Ethernet based peer-to-peer communications controller with internal display and keypad

- RS232 Service Port
- RS232 External Keypad port
- RS232 Modem/printer port
- RS485 Fieldbus
- Embedded web server for configuration
- Max Field Controllers: 63
- Modbus option not included.

Description	Type code	Order code
	1M260100	2CQG250901R1021



UC32.netK/WEB/MOD

UC32.netK/WEB/MOD

Ethernet based peer-to-peer communications controller with internal display and keypad.

- RS232 Service Port
- RS232 External Keypad port
- RS232 Modem/printer port
- RS485 Fieldbus
- Embedded WebLink web server included
- Max Field Controllers: 63
- Modbus communication RS232/RS485 included.
- Max Modbus devices: 48

Description	Type code	Order code
	1M260130	2CQG250903R1021

ABB Cylon®
Unitron Relays



UC32RP8

UC32RP8
External relay pack with 8 relays, screw terminals.

Description	Type code	Order code
	1M9RS050	2CQG205301R1021



UC32R/L4

UC32R/L4
External relay pack with 4 raise/lower relays, screw terminals.

Description	Type code	Order code
	1M9RS070	2CQG205303R1021

ABB Cylon®

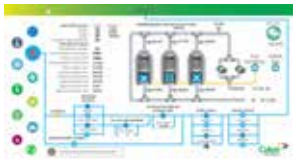
Unitron Engineering Software



Description	Order details	
	Type code	Order code
CEC - Licence (Software) This Licence allows the use of the ABB Cylon® Engineering Centre programming software	1M4SW530	2CQG253413S3021
CEC - Additional (Software) Additional licence for use of the ABB Cylon® Engineering Centre programming software. Only available once 1M4UC130 has been purchased.	1M4SW500	2CQG253412S3021

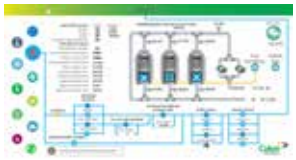
ABB Cylon®

Unitron Supervision Software



UCC Licence Soft Dongle

Description	Order details	
	Type code	Order code
UCC Licence Soft Dongle Unitron Command Centre Site Licence allows the use of Unitron Command Centre Supervisory Software. Includes 1 Soft Dongle. Recommended for sites where 5 or more Unitron Command Centre dongles are required. Note: There is a cost associated with transferring this licence. Please contact abb.com/buildings before transferring the licence.	1M4SW460	2CQG253409S3021
UCC Additional Software-Dongle Additional Soft dongle for use of Unitron Command Centre Supervisory Software. Only available for purchase and use on sites with a valid Unitron Command Centre Site Licence 1M4SW460. Note: There is a cost associated with transferring this licence. Please contact abb.com/buildings before transferring the licence.	1M4SW480	2CQG253411S3021



UCC Single User Soft Dongle

Description	Order details	
	Type code	Order code
UCC Single User Soft Dongle Unitron Command Centre Single User allows the use of Unitron Command Centre Supervisory Software. Includes 1 Dongle. Note: There is a cost associated with transferring this licence. Please contact abb.com/buildings before transferring the licence.	1M4SW470	2CQG253410S3021



OPC Server

OPC Server The OPC Server provides an interface between OPC DA 2.05 compliant SCADA packages and the UC32 and UCU range of field controllers. Includes single server licence.	1M4SW250	2CQG255905S3021

ABB Cylon®

Displays & Smart Sensors



Cylon eXplore

Cylon eXplore

The next generation Cylon eXplore graphical interface is an Internet of Things (IoT) touch-screen solution that is scalable and secure, able to control, monitor and manage future-ready smart buildings. The eXplore touchscreen display allows users to securely access, view and engage with operating parameters of the entire enterprise portfolio of buildings or a single controller.

Description	Order details	
	Type code	Order code
EXP-C10 Touchscreen 10 inch ASPECT/SiteGuide interface	1S9KS700	2CQG202002R2021
EXP-C7 Touchscreen 7 inch ASPECT/SiteGuide interface	1S9KS707	2CQG202003R2021





ABB FusionAir Smart Sensor*

The ABB FusionAir Smart Sensor series provides a slim, compact, and visually appealing room control display with a high definition capacitive touch backlit LCD display for use with ABB's Cylon® FLXeon and CB Line BACnet® field controllers. The intelligent temperature and humidity sensor allow users to view and adjust selected parameters within the field controller to which it is connected. Other sensing options available for integration with the CXproHD control strategy are CO_2 or Volatile Organic Compound (VOC) sensing, and contacts for the addition of Passive Infra-Red (PIR) occupancy detection.
The ABB FusionAir Smart Sensor display can be used to view control parameters and adjust HVAC, lighting and sunblind set points for the connected controller.
The ABB FusionAir Smart Sensor can be installed as part of a multi-sensor application for larger spaces or multiple room connection.
The system can also provide a Safe Indoor Environment against pandemic-causing viruses (such as Covid-19) through offering a patented* safe touch-free user interaction with the sensor which gives clear feedback of the safety status in a room.

Description	Order details	
	Type code	Order code
ABB FusionAir Sensor Analog Temperature only	FA-T	2CQG505560R1011
ABB FusionAir Smart Sensor Temperature + RH	FA-TH	2CQG505561R1011
ABB FusionAir Smart Sensor Temperature + RH + VOC	FA-THV	2CQG505562R1011
ABB FusionAir Smart Sensor Temperature + RH + CO_2	FA-THC	2CQG505563R1011
ABB FusionAir Smart Sensor Temperature + RH + Display	FA-TH-D	2CQG505564R1011
ABB FusionAir Smart Sensor Temperature + RH + VOC + Display	FA-THV-D	2CQG505565R1011
ABB FusionAir Smart Sensor Temperature + RH + CO_2 + Display	FA-THC-D	2CQG505566R1011

* patent pending

ABB Cylon®

Displays & Smart Sensors



Cylon® CBT-STAT

The CBT-STAT and CBT-STAT-H provide visually appealing room control display for use with Cylon's CB Line BACnet® field controllers. The intelligent temperature sensor CBT-STAT and the CBT-STAT-H with integrated humidity sensor allow users to view and adjust selected parameters within the field controller to which it is connected. Use of the CBT-STAT(-H) avoids the need for any special tools of software to fully configure and commission a VAV controller. The configuration and commissioning is password-protected to prevent unauthorized changes. Each CB Line field controller automatically detects the presence of the CBT-STAT, and self-configures to utilize the CBT-STAT as the control interface. In Engineering Mode, the display can be used as the setup and commissioning tool. The CBT-STAT can be used to setup the communications parameters, all the default settings and do complete balancing of the VAV box.

Description	Order details	
	Type code	Order code
CBT-STAT Intelligent Room Control Display w/ Temp sensor	CBT-STAT	2CQG505506R2021
CBT-STAT Intelligent Room Control Display w/ Temp & Humidity sensor	CBT-STAT-H	2CQG505507R2021



UCU Room Keypad

UCU Room Keypad

A dedicated room control display for fan coil control. The programmable display allows the user to view and adjust selected parameters within the controller to which it is connected.
Note: Only compatible with UCU10FC/K and CB Line.

Description	Order details	
	Type code	Order code
UCU-KEY-PAD Room control display for FCU Fan coil room control	1S9KS650	2CQG256501R1021

ABB Cylon®

Sensors - Wired



Room Temperature Sensor (WRF04)

Room Temperature Sensor (WRF04)

- Measuring insert: 1x NTC 10kOhm
- Temperature range: -35...+70°C
- Housing: ABS pure white (RAL9010), IP20
- L 84.5 x B 84.5 x H 25 mm

Description	Type code	Order code
	1S9SW140	2CQG505113R2021



Room Temperature Sensor (WRF04P)

Room Temperature Sensor (WRF04P)

- Surface Mounting
- Measuring insert: 1x NTC 10kOhm
- Temperature range: -35...+70°C
- Housing: ABS, pure white (RAL9010), IP20
- L 84.5 x B 84.5 x H 25 mm
- Operating elements
- Potentiometer 5 kOhm
- 3-wire conductor (-,0,+)
- Standard legend

Description	Type code	Order code
	1S9SW142	2CQG505114R2021



Duct Temperature Sensor (AKF1046507)

Duct Temperature Sensor (AKF1046507)

Duct Temperature Sensor 465 mm

- Measuring insert SI-Protection: 1 x NTC10k
- Changeable Temperature range: -50...+150°C
- Mat. 1.4571
- Connection head: Polyamide white, IP65
- Probe: SH EL = 465 x 7 mm

Description	Type code	Order code
	1S9SW106	2CQG505105R2021

Mounting Flange (MF7)

- Material PA6.6 glass ball reinforced D = 55 mm,
- Colour black. For sensor pocket D = 7 mm

Description	Type code	Order code
	1S9SW126	2CQG505804R2021

ABB Cylon®
Sensors - Wired



Outdoor Temperature Sensor (AGS54)

Outdoor Temperature Sensor (AGS54)
- Output: 1 x NTC10k
- Temperature range -50...+90°C
- Housing: Polyamide white, IP65
- L 65 x B 50 x H 37.5 mm

Description	Type code	Order code
	1S9SW100	2CQG505101R2021



Contact Temperature Sensor (VFG54)

Contact Temperature Sensor (VFG54)
Output: 1 x NTC10k
- Temperature range: -35...+120 °C
- Housing: Polyamide white
- IP65
- L 65 x B 50 x H 37.5 mm

Clamp not supplied.

Description	Type code	Order code
	1S9SW138	2CQG505112R2021



62 mm Immersion Temperature Sensor (AKF106207)

62 mm Immersion Temperature Sensor (AKF106207)
- Measuring insert SI-Protection: 1 x NTC10k
- Temperature range: -50...+150°C
- Mat. 1.4571
- Connection head: Polyamide white IP65
- Probe: SH EL = 62 x 7 mm

Description	Type code	Order code
	1S9SW108	2CQG505106R2021



Immersion Pocket Stainless Steel (THVA 50 x 10 x 1 mm)

Immersion Pocket Stainless Steel (THVA 50 x 10 x 1 mm)
- EL = 50 x 10 x 1 mm
- Mat. 1.4571
- SW24
- G½”
- ISO 228T1
- PN40

Use with AKF106207 (1S9SW108)

Description	Type code	Order code
	1S9SW138	2CQG505111R2021



Immersion PocketBrass (THMS 50 x 10 x 1 mm)

Immersion Pocket Brass (THMS 50 x 10 x 1 mm)
- EL = 50 x 10 x 1 mm
- Mat. Brass nickel-plated
- SW22, G½"
- PN16

Use with AKF106207 (1S9SW108)

Description	Type code	Order code
	1S9SW132	2CQG505805R2021

ABB Cylon®
Sensors - Wired



135 mm Immersion Temperature Sensor 135mm (AKF1013507)

135 mm Immersion Temperature Sensor 135mm (AKF1013507)

- Measuring insert SI-Protection: 1 x NTC10k
- Changeable Temperature range: -50...+150°C
- Mat. 1.4571
- Probe: SH EL = 135 x 7mm
- Connection head: Polyamide white, IP65

Description	Type code	Order code
	1S9SW102	2CQG505103R2021



Immersion Pocket Brass (THMS 120 x 10 x 1 mm)

Immersion Pocket Brass (THMS 120 x 10 x 1 mm)

- EL = 120 x 10 x 1 mm
- Nickel-plated
- SW22
- R½"
- PN 16

Use with AKF1013507 (1S9SW102)

Description	Type code	Order code
	1S9SW148	2CQG505806R2021



Room Air-Quality Sensor (LW04)

Room Air-Quality Sensor (LW04)

- Output: 0-10 V
- Uv = 15-24V DC/15-24 V AC
- Housing: ABS, pure white (RAL9010), IP20
- L 84.5 x B 84.5 x H 25 mm

Description	Type code	Order code
	1S9SW122	2CQG505110R2021

ABB Cylon®

Demonstration & Technical Services

Description	Order details	
	Type code	Order code
Chargeable Site Support The net daily rate for a ABB Cylon® Engineer on-site support (excluding travel, accommodation & subsistence expenses which are charged additionally at cost).	9M9TR140	2CQG204007R5021
Training Course Cylon runs open engineering and installation training courses at its offices. This is the net daily rate per person. Visit support.cylon.com for booking details and availability.	9M9TR100	2CQG204003R5021
Training Course - Off Site ABB Cylon® provides off-site training on request for specific customers. This is the net daily rate for the course for up to 2 attendees (excluding travel, accommodation & subsistence expenses which are charged additionally at cost).	9M9TR120	2CQG204005R5021
Training Course - Off Site Additional Attendee For off-site training additional attendees are charged at this net daily rate per person.	9M9TR130	2CQG204006R5021
Training Course Cancellation Fee For open courses attendees may cancel up to 2 weeks in advance. If cancellation is made less than 2 weeks in advance of the course the following net daily cancellation rate per person applies.	9M9TR110	2CQG204004R5021
HD-SW-EX Change any Hardware Dongle to the equivalent Soft Dongle	HD-SW-EX	2CQG603704S5021
PC-PC-EX Move a Software licence (Soft Dongle) from one PC to another PC.	9M9TR155	2CQG603705S5021
SUP-SITE-EX On-site support/day inc exp	9M9TR144	2CQG204008R5021



CBX/FLX Demo Suitcase

CBX/FLX Demo Suitcase

Description	Order details	
	Type code	Order code
Aspect® Demonstration case containing: MATRIX, CBX, FLX and Touchscreen. (Europe)	1M9ZA810	2CQG205802R5021
Aspect® Demonstration case containing: MATRIX, CBX, FLX and Touchscreen. (UK/IE)	1M9ZA811	2CQG205803R5021
Aspect® Demonstration case containing: MATRIX, CBX, FLX and Touchscreen. (US/CA)	1M9ZA812	2CQG205801R5021

ABB Cylon®
Other



EIBAS-100T/R

EIBAS-100T/R

Ethernet switch - Din rail mounted 5 ports.
Auto port polarity detection. PSU 24V AC.

Description	Type code	Order code
	1S9ET340	2CQG605801R2021

UC16 to PC Cable

UCU Molex female to 9 Pin D-Type female PC serial communication cable, 2m.
Used for PC to UCU commissioning.

Description	Type code	Order code
	1S9CS020	2CQG255701R1021

ABB Cylon®
Spares



UCKRA420

UCKRA420
Panel mounted, surface mounted or handheld remote serial display and keypad with 2m cable for connection to compatible controllers (UC32.netK, UC32.xx, UCxxPG-R, UCC4/3P/K). Limited compatibility with BACnet® controllers.
Does not support BACnet® objects.

Description	Type code	Order code
	1M9KS100	2CQG202014R1021

UC32 - PC Commissioning Cable
UC32 RJ-45 connector male (plug) to 9 pin D-type female PC commissioning cable.

Description	Type code	Order code
	1S9CS090	2CQG255703R1021



Room Temperature Sensor with Pot. & Button (WRF04PT)

Room Temperature Sensor with Pot. & Button (WRF04PT)
- Measuring insert: 1x NTC 10kOhm
- Temperature range: -35...+70 °C
- Housing: ABS, pure white (RAL9010), IP20
- L 84.5 x B 84.5 x H 25 mm

Description	Type code	Order code
	1S9SW146	2CQG505115R2021



192 mm Duct Temperature Sensor (AKF1019207)

192 mm Duct Temperature Sensor (AKF1019207)
- Measuring insert SI-Protection: 1 x NTC10k
- Temperature range: -50...+150°C
- Mat. 1.4571
- Connection head: Polyamide white IP65
- Probe: SH EL = 192 x 7 mm

Description	Type code	Order code
	1S9SW104	2CQG505104R2021

ABB Cylon®

Withdrawn Product/Spares



CBM24

CBM24

BACnet® programmable controller.

- 8 UniPuts™
- 8 UniPuts™ mit Relays
- 8 Universal Inputs
- 224 configurable BACnet® objects
- 1024 strategy blocks
- Up to 16 controllers per Fieldbus
- Flash upgradable firmware

Description	Type code	Order code
	1M160440	2CQG201011R1021



Room Temperature Sensor (WRF04FC)

Room Temperature Sensor (WRF04FC)

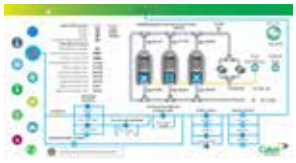
Room temperature sensor with potentiometer and rotary switch.

- Surface mounting
- Measuring insert: 1x NTC 10kOhm
- Housing: ABS, pure white (RAL9010), IP20
- L 84.5 x B 84.5 x H 25 mm
- Temperature range: -35...+70°C
- Operating elements: Potentiometer 1 kOhm (-,0,+);
- Rotary Switch (Auto, 0,I,II,III)
- Standard legend

Description	Type code	Order code
	1S9SW144	2CQG505116R2021

ABB Cylon®

Withdrawn Product/Spares



Description	Order details	
	Type code	Order code
Server Weblink 1 User Soft Dongle Web server based supervisor software for Unitron systems. Licence for 1 web user at a time. Note: There is a cost associated with transferring this licence. Please contact abb.com/buildings before transferring the licence.	1M4SW400	2CQG253005S3021
Server Weblink 2 Users Soft Dongle Web server based supervisor software for Unitron systems. Licence for 2 simultaneous web users. Note: There is a cost associated with transferring this licence. Please contact abb.com/buildings before transferring the licence.	1M4SW410	2CQG253006S3021
Server Weblink 3 Users Soft Dongle Web server based supervisor software for Unitron systems. Licence for 3 simultaneous web users. Note: There is a cost associated with transferring this licence. Please contact abb.com/buildings before transferring the licence.	1M4SW420	2CQG253007S3021
Server Weblink - Unlimited Soft Dongle Web server based supervisor software for Unitron systems. Licence for 4 and above simultaneous web users. Note: There is a cost associated with transferring this licence. Please contact abb.com/buildings before transferring the licence.	1M4SW430	2CQG253008S3021

Electrical installation solutions for buildings
Emergency Lighting

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Emergency lighting
A head of safety

By choosing ABB as your emergency lighting partner, you'll be placing your projects, your systems, and essentially your people, in safe hands.



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01

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01 We support emergency lighting projects on all scales

When choosing a partner for emergency lighting, you need a supplier capable of delivering a solution whenever the need arises, whether you're planning a new build project, overseeing an installation, or considering renewal of a long-standing system.

We are a leading life safety solutions provider, delivering state-of-the-art systems and products into the emergency lighting marketplace.

We focus on supporting our customers at all points of the emergency lighting life-cycle, whether planning, installing, managing or renewing.

Years of experience
Supporting emergency lighting projects on all scales, backed by friendly service, technical expertise and our continual drive towards new product innovation makes us the number one choice for emergency lighting.

Construction engineers and installers are assured that orders can be easily placed, deliveries arrive promptly, and that any issues are resolved quickly to a satisfactory outcome.

Our products and services are specifically designed to provide the most effective protection and safety, in line with customer needs, relevant standards and industry regulations. These solutions start at the planning stage for emergency lighting systems, with advice on product selection and system requirements, through to delivery of certified technical drawings.

With project time-lines tight and budgets constrained, choosing the right partner for emergency lighting system design is imperative. We would like to help you in making the right start.

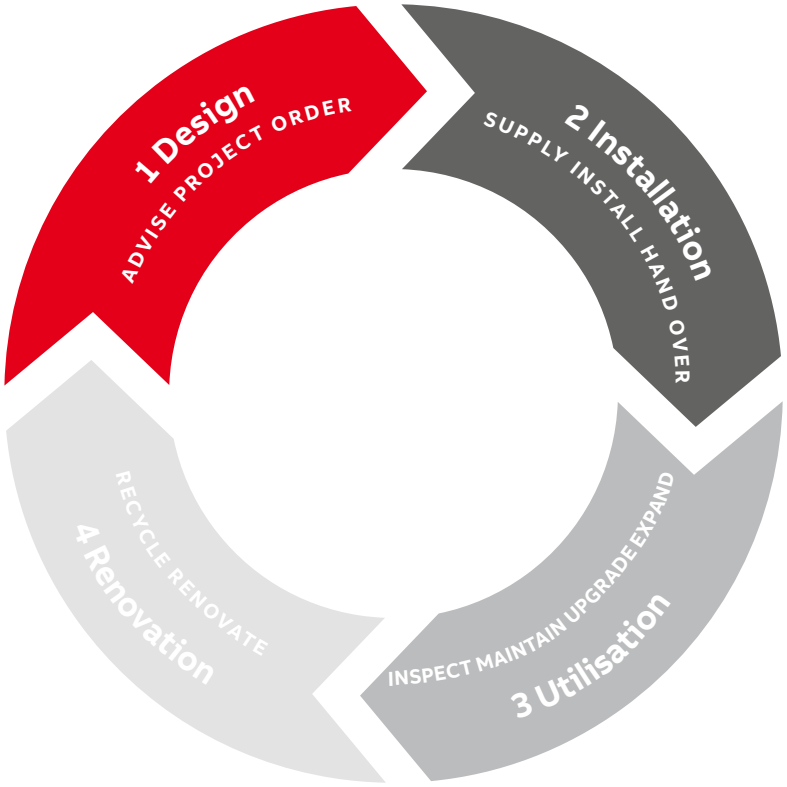
We works at the heart of this complex process, assisting designers, specifiers, and final customers with all manner of emergency lighting needs.

Efficient emergency lighting solutions
Life-cycle

The concept is clear and simple. Providing you a reliable, total solution for safe evacuation. The way in which we do this is what makes the difference.
We offer advantages to everybody involved throughout the life-cycle process. That way, you know that ABB is always the right choice, for both you and your customers.

Advice and information during the design phase
In the design phase, it is important for you to have all the information. If desired, we can provide you with that in the form of specific project advice, based on the most recent regulations, standards and safety requirements. We always offers you the necessary information in the most compact form, so that you quickly have an overview of all the available information.

Speed and materials during the installation phase
Speed and timing are essential during the installation phase, because the easy-to-install materials must be at the construction site at the right time. That is why luminaires are always in stock, or short lead time from the manufacturing facility. If you perform the installation yourself, clear assembly instructions, packaging instructions and a modular system give you a head start.



Support during the utilisation phase
During the utilisation phase, we can advise on your emergency lighting installation and make sure it is aligned with the latest standards. That way, you guarantee optimal safety at minimum utilisation costs, thanks to low energy consumption and easy-to-replace parts and, if necessary, the people who are working, shopping, relaxing or sleeping in the building can quickly and safely find their way out.

Altering and separating during the renovation phase
The new generation of emergency lighting products is ready for the renovation phase. We go further than the normal use of durable, environmentally-friendly, recyclable materials. The products are easy to disassemble and easy to dispose of separately in the legally required return and recycling flows. It is also easy to alter the new generation of luminaires using the individual modules.

Emergency lighting process
With you every step

During building construction or refurbishment, the focus for emergency lighting shifts from planning and design, to delivery and installation.
We provide solutions that impact at all points of the emergency lighting life-cycle.



—
01 Easy-to-install product range

Easy-to-install product range
Many of our products are engineered to a modular design format, which promotes straightforward, cost-effective installation and maintenance.

Modular design enables First-Fix installation of the key wiring components with later connection of geartrays, diffusers and legends etc, for easy management and replacement of parts.



—
02 Certified technical design

Certified technical design
Central to emergency lighting is the technical design drawing. It defines luminaire positioning and spacing, drives the installation effort and provides the key control for commissioning and approval.

Our technical design team is on hand to advise and assist with design drawings for all types of emergency lighting system, to the latest relevant standards, with full certification for added confidence and peace of mind.



—
03 Project support

Project support
Our project engineers and internal sales support teams are available to provide guidance on products and project updates/delivery schedules etc. This catalogue makes for a great starting point when considering emergency lighting, but is only a small part of our service.



—
04 Project consultation

Project consultation
You can count on us to help with your emergency lighting planning. We offer expert assistance in emergency lighting scheme design, as well as clear, concise advice on product selection. Our dedicated team are able to assist you at your premises, and arrange for emergency lighting schemes to be prepared at our design office.



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05

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05 Easy-to-install product range

The purpose of an emergency lighting system is to protect and safeguard life. Once commissioned and in operation, the emergency lighting system must function correctly throughout its lifetime and therefore requires ongoing management, maintenance and testing.

Standards and legislation
The need for testing and servicing is enforced by legislation, with both The Regulatory Reform (Fire Safety) Order 2005/ Fire (Scotland) Act 2005 and The Work Place Directive 89/654 making reference to proper maintenance of emergency lighting systems.

Any faults found need to be rectified as quickly as possible. For many building owners/occupiers, who have legal responsibility for these systems, maintenance, testing and access to replacement parts are of paramount importance. With this in mind, it's clear to see that maintaining the partnership with your emergency lighting supplier, even after commissioning, is highly important.

Our fully certified engineering team can provide, support and advice on maintenance and servicing of emergency lighting.

Maintenance & servicing
Our team of qualified and experienced service engineers is available to service emergency lighting systems and to ensure full working order, in line with appropriate British Standards.

Term maintenance contracts are available. Contact our service team today to discuss your maintenance needs.

System testing & upgrades
Owner/occupiers are legally obliged to test and maintain emergency lighting to BS 5266-1 and -8 (Simplified Testing Regime EN 50172).

Emergi-Lite manufactures a range of testing solutions for self-contained emergency lighting - Self-test, IR2, Naveo®Pro and Emex test addressable testing - to accommodate all levels of testing requirement.

Emergency lighting portfolio

Global Standards

Countries	Standards EU	Standards	Certifications	Brand	Page
FR, AL	EN 60598-1 EN 60598-2-22 EN 1838 EN 50171 EN 50172 (HD) IEC 60364-5-56 EN IEC 62485-2 EN 62034 EN-ISO 7010	NF C 71-801 NF C 71-802 NF C 71-803 NF C 71-804 NF C 71-805 NF C 71-820 NF C 71-830	NF AEAS NF performance SATI NF environnement	Kaufel	16/8, 16/9
UK, IE **MEA: AE, QA, SA, OM, BH, EG, IN, ZA**		BS 5266	Kitemark ENEC	Emergi-Lite	16/12, 16/13
DE, A, CH		DIN VDE V 0108-100-1 DIN VDE 0100-560 DIN ISO 3864-1 DIN 4844-1	ENEC (state of the art, but not an absolute must)	Kaufel & ABB	16/6 to 16/9
NL		Bouwbestluit (law) ARBO wet (law) NEN 1010 NEN 3011 NEN 2443	ENEC	VanLien	16/10, 16/11
BE, LU		Koninklijk besluit (law) ARAB (law) NBN-C71-100	ENEC Lastenboek 400 (LB400)	VanLien	16/10, 16/11
NEU: SE, DK, FI, NO, ES				ABB	16/6, 16/7
CEU: BG, HU, CZ, LT, MD				ABB	16/6, 16/7
MED: SP, IT, TR, PT				ABB	16/6, 16/7

Emergency lighting portfolio

Global Standards

Countries	Standards	Certifications	Brand	Page
US	CSA C22.2 No. 141 UL 924	UL CSAus	Emergi-Lite Lightalarms	16/16, 16/17
CA	CSA C22.2 No. 141 UL 924	CSA cUL	Emergi-Lite Lumacell Ready-Lite	16/18, 16/19
AU, NZ	AS/NZS 2293.2 AS/NZS 2293.1		Stanilite	16/20 to 16/25
ASIA: SG, TH			Stanilite	16/20 to 16/25

Emergency lighting portfolio

ABB – EN1838

							
Range	**Guideway**	**Ovano**	**Movion**		**PrimEvo**	**Optima 350**	
	Self-contained	Self-contained	Self-contained	Slave	Self-contained	Self-contained	
Type of projects	Architectural	Commercial	Commercial		Distributor select	Distributor select	
Technologies							
NaveoPro (Europe)	■		■				
Self Test	■		■		■	■	
DALI	■	■	■				
Standard				■			
FLX				■			
Emex Test				■			
Functions							
Escape route signage	■	■	■	■	■	■	
Escape route lighting		■	■	■	■	■	
Open area		■	■	■			
Degree of protection							
IP	IP40	IP20	IP20/ IP40/ IP42		IP20/ IP65	**IP42/ IP65**	
IK					IK10	**IK10**	

						
	Pharos	**Nel-3**	**Aqualux**	**Serenga 2**	**MirEvo TwinSpot**	**Lutia**
	Self-contained	Self-contained	Self-contained	Self-contained	Self-contained	Self-contained
	Distributor select	Distributor select	Industrial	Architectural	Commercial	Industrial
			■	■		■
	■	■		■	■	■
			■	■	■	■
	■	■	■			
			■	■	■	■
	IP41	**IP54**	**IP67**	**IP42/ IP54**	**IP65**	**IP65**
			IK10		**IK04**	**IK10**

Emergency lighting portfolio

Kaufel-FR

										
Range	**BrioSpot**		**Brio+**		**Primo3**		**PrimEvo**	**Indulux**		
	Self-contained	Slave	Self-contained	Slave	Self-contained	Slave	Self-contained	Self-contained	Slave	
Type of projects	Architectural		Commercial		Commercial		Distribution select	Industrial		
Technologies										
NaveoPro (Europe)	■		■	■				■	■	
Self Test	■		■		■		■	■		
Standard										
Conventionnel		■		■		■			■	
Functions										
Escape route signage	■	■	■	■	■	■	■	■	■	
Escape route lighting	■	■	■	■	■	■		■	■	
Sleeping area	■		■		■					
Housing			■		■		■			
Handicap	■		■		■					
Lighting device			■							
Degree of protection										
Not Waterproof	IP 43 / IK 04 IP 43 / IK 08		IP 42 / IK 07		IP42 / IK07 IP 42 / IK 10		IP 42 / IK 10			
Waterproof			IP 65 / IK 10		IP 65 / IK 10		IP 65 / IK 10	IP 65 / IK 10		

							
	Altiled		**DuoCompact**	**Duophare**	**EDF**	**BSL+**	**Réglettes**
	Self-contained	Slave	Self-contained	Slave	Self-contained	Slave	Slave
	Architectural		Industrial	Industrial	Industrial	Commercial	Distribution select
	■	■	■				
	■		■				
					■		
		■		■		■	■
						■	
	■	■	■	■	■		■
					IP 42 / IK10		IP 42 / IK 04
	IP 65 / IK08		IP 65 / IK08	IP 65 / IK08	IP 65 / IK10	IP 68 / IK 10	

Emergency lighting portfolio

VanLien-BE-NL-LU

										
Range	**Evago**		**Serenga**		**Optilux / Horizon**		**Previx**		**Movion**	
	Self-contained	Slave	Self-contained	Slave	Self-contained	Slave	Self-contained	Slave	Self-contained	Slave
Type of projects	Architectural		Architectural		Commercial		Commercial		Industrial	
Technologies										
NaveoPro (Europe)	■		■		■		■		■	
Self Test	■		■		■		■		■	
DALI	■		■						■	
Standard		■		■		■		■		■
FLX		■		■		■		■		■
Functions										
Escape route signage	■	■	■	■	■	■	■	■	■	■
Escape route lighting	■	■			■	■	■	■	■	■
Degree of protection										
IP	IP40/ IP42/ IP54		IP20		IP40/ IP20		IP40		IP20/ IP40/ IP42	
IK									IK04	

						
	Solo	**Aqualux**	**Indulux**	**Lutia**	**Decoled**	**Hiled**
	Self-contained	Self-contained / Slave	Self-contained / Slave	Self-contained / Slave	Self-contained / Slave	Self-contained / Slave
	Distributor select	Industrial	Industrial	Architectural	Commercial	Industrial
	■	■	■	■	■	■
		■	■	■	■	■
		■		■		
		■	■	■	■	■
		■	■	■	■	■
		■ ■	■ ■			
	■	■ ■	■ ■	■ ■	■ ■	■ ■
	IP54	IP67/ IP65	IP 68	IP65	IP65	IP65
		IK10	IK10	IK10	IK10	IK8

Emergency lighting portfolio

Emergi-Lite-UK-MEA

									
Range	**Guideway**		**Horizon**		**Sivler Scape**		**Navigator Compact**		
	Self-contained	Slave	Self-contained	Slave	Self-contained	Slave	Self-contained	Slave	
Type of projects	Architectural		Commercial		Commercial		Commercial		
Technologies									
NaveoPro (Europe)	■		■		■		■		
Self Test	■		■		■		■		
DALI	■								
Standard		■		■		■		■	
FLX									
Emex Test		■		■		■		■	
Functions									
Exit sign	■	■	■	■	■	■	■	■	
General lighting									
Escape route					■	■			
Open area					■	■			
Degree of protection									
IP	IP20		IP20 / IP40		IP20		IP20		
IK									
Certifications									
ENEC Dekra	■		■						
ENEC LCIE BV									
BSI KM	■		■		■		■		
BSI ENEC									
IECEE CB	■		■		■		■		

								
	Day-Lite Ex-Cel		**Ovano**	**Movion**		**Primevo**	**Aqualux**	
	Self-contained	Slave	Self-contained	Self-contained	Slave	Self-contained	Self-contained	Slave
	Commercial		Commercial	Commercial		Distributor select	Industrial	
	■			■			■	
	■			■		■	■	
			■	■			■	
		■			■	■		■
		■			■			■
	■	■	■			■	■	■
	■	■	■	■	■	■	■	■
	■	■	■	■	■	■	■	■
	IP65		IP20	IP20/ IP40/ IP42		IP20 / IP65	IP20/ IP42/ IP65/ IP67	
						IK04 / IK10	IK10	
				■			■	
						■		
	■						■	
	■			■			■	

Emergency lighting portfolio

Emergi-Lite-UK-MEA

									
Range	**Indulux**		**Weatherforce**		**Serenga 2**		**Hyled**		
	Self-contained	Slave	Self-contained	Slave	Self-contained	Slave	Self-contained	Slave	
Type of projects	Industrial		Industrial/ Commercial		Architectural		Architectural		
Technologies									
NaveoPro (Europe)	■		■		■		■		
Self Test	■		■		■		■		
DALI									
Standard		■		■		■		■	
FLX									
Emex Test		■		■		■		■	
Functions									
Exit sign	■	■	■	■					
General lighting									
Escape route	■	■	■	■	■	■	■	■	
Open area	■	■	■	■	■	■	■	■	
Degree of protection									
IP	IP68		IP65		IP42 / IP54		IP65		
IK	IK10						IK10		
Certifications									
ENEC Dekra			■		■				
ENEC LCIE BV	■						■		
BSI KM			■		■				
BSI ENEC									
IECEE CB			■		■		■		

								
	Camarque		**Cordona**		**MirEvo Twinspot**		**Lutia**	
	Self-contained	Slave	Self-contained	Slave	Self-contained	Slave	Self-contained	Slave
	Commercial		Commercial		Commercial		Industrial	
	■		■				■	
	■		■		■		■	
					■		■	
		■		■		■		■
		■		■		■		■
	■	■	■	■			■	■
	■	■	■	■	■	■	■	■
	■	■	■	■		■	■	■
	IP20		IP65		IP65		IP65	
					IK06		IK10	
	■		■		■			
	■		■				■	
							■	
	■		■		■		■	

Emergency lighting portfolio

Emergi-Lite & Lightalarms - USA

									
Range Emergi-Lite	**Premier Exit**		**Premier Combo**	**Survive-All SVX**		**Survive-All SVX Combo**	**ELX**		
Range Lightalarms	**Grande Exit**		**Grande Combo**	**Severe XV & XVE**		**Severe XVE Combo**	**QLX & QLXN**		
Type of projects	Commercial		Commercial	Industrial		Industrial	Distributor Select		
	Self-Powered	AC-Only & AC/DC	Self-Powered	Self-Powered	AC-Only & AC/DC	Self-Powered	Self-Powered	AC-Only	
Technologies									
NexusPro (NAM)	■		■	■		■			
Self Test	■		■	■		■	■		
Standard	■		■	■		■	■		
Functions									
Escape route signage	■	■	■	■	■	■	■	■	
Escape route lighting			■			■			
Damp Location	■	■	■	■	■	■	■	■	
Cold Temperature				■		■			
Power over Ethernet									
California Energy Commision Title 20	■	■		■	■				
Indexes of protection									
NSF				■	■	■			
NEMA 4X				■	■	■			
Certification	UL	UL	UL	UL	UL	UL	UL	UL	

					
	ELXN400-LED	**RA**	**Premier Compact**	**Survive-All SV**	**EL-2LED**
	UQLXN	**RP**	**Grande Compact**	**Severe V**	**LCA-2LEDR**
	Distributor Select	Architectural	Commercial	Industrial	Distributor Select
	Self-Powered	Self-Powered / Remote	Self-Powered	Self-Powered	Self-Powered
		■	■	■	
	■	■	■	■	■
	■	■	■	■	■
	■				
	■	■ ■	■	■	■
	■	■ ■	■	■	■
				■	
		■			
		■	■	■	■
		■ ■		■	
				■	
	UL	UL UL	UL	UL	UL

Emergency lighting portfolio

Emergi-Lite Lumacell Ready -CAN

									
Range Emergi-Lite	**ES**		**ESC**	**Survive-All EN**		**Survive-All ENC**	**CMPS-E**		
Range Lumacell	**LS**		**LSC**	**LN**		**LNC**	**CMPS-L**		
Range Ready-Lite	**RS**		**RSC**	**RN**		**RNC**	**CMPS-RL**		
Type of projects	Commercial		Commercial	Industrial		Industrial	Distributor Select		
	Self-Powered	AC-Only & AC/DC	Self-Powered	Self-Powered	AC-Only & AC/DC	Self-Powered	Self-Powered	AC-Only	
Technologies									
NexusPro (NAM)	■		■	■		■			
Self Test			■	■		■			
Standard	■		■	■		■	■		
Functions									
Escape route signage	■	■	■	■	■	■	■	■	
Escape route lighting			■			■			
Cold Temperature				■	■	■			
Power over Ethernet									
Indexes of protection									
NSF				■	■	■			
NEMA 4X				■	■	■			
Certification	CSA	CSA	CSA	CSA	CSA	CSA	CSA	CSA	

					
	CMPC-E	**ERAU & ERAUR**	**JMC & JMLC**	**Survive-All NXM**	**CM-SB**
	CMPC-L	**LRAU & LRAUR**	**RC & RGC**	**RG-NX**	**CM-SB**
	CMPC-RL	**RRAU & RRAUR**	**LDC & LDXC**	**TUF-NM**	**CM-SB**
	Distributor Select	Architectural	Commercial	Industrial	Distributor Select
	Self-Powered	Self-Powered / Remote	Self-Powered	Self-Powered	Self-Powered
		■	■	■	
		■	■	■	
	■	■	■	■	■
	■				
	■	■	■	■	■
				■	
		■			
		■ / ■		■	
				■	
	CSA	cUL / cUL	CSA	CSA	CSA

Emergency lighting portfolio

Stanilite - AU-NZ

					
Range	**Platinum exit LED Evago**	**Platinum exit LED Evago Theatre Mask**	**Platinum exit LED Edgelit recessed, original style square diffuser / Theatre Mask**	**Platinum exit LED Quickfit / Quickfit Theatre Mask**	
	Self contained	Self contained	Self contained	Self contained	
Type of projects	Architectural	Architectural	Architectural	Commercial	
Technologies					
Nexus RF Infinity	■	■	■	■	
Single Point Unit	■	■	■	■	
DALI			■	■	
Nexus LX			■	■	
Functions					
Exit sign	■	■	■	■	
Escape route lighting					
Degree of protection					
Degree of protection	IP 20	IP 20	IP 20	IP 20 / IP65	

					
	Platinum exit LED Edgelit Quickfit / Recessed	**Platinum exit LED Weatherproof**	**Platinum exit LED Quickfit Vandal Resistant**	**Platinum exit LED Quickfit Jumbo**	**Platinum exit LED Jumbo**
	Self contained	Self contained	Self contained	Self contained	Self contained
	Commercial	Commercial	Industrial	Industrial	Industrial
	■	■	■	■	■
	■	■	■	■	■
	■				
	■	■	■	■	■
	■	■	■	■	■
	IP 20	IP 65	IP 20 / IK 10	IP 20	IP 20

Emergency lighting portfolio

Stanilite - AU-NZ

					
Range	**Platinum exit LED Jumbo weatherproof**	**Economy Exit LED (wall mount, slide connect, ceiling mount)**	**Platinum Spitfire LED (recessed non-maintained)**	**Platinum Spitfire LED**	
	Self contained	Self contained	Self contained	Self contained	
Type of projects	Industrial	Distributor select	Commercial	Commercial	
Technologies					
Nexus RF Infinity	■		■	■	
Single Point Unit	■	■	■	■	
DALI			■		
Nexus LX	■		■	■	
Functions					
Exit sign	■	■			
Escape route lighting			■	■	
Degree of protection					
Degree of protection	IP 65	IP 20	IP 20	IP 20	

					
	Platinum Spitfire LED (weatherproof non-maintained)	**Platinum Batten LED - 4 foot**	**Platinum Batten LED weatherproof - 2 foot**	**Platinum Batten LED weatherproof - 4 foot**	**Platinum Batten LED weatherproof - 5 foot**
	Self contained	Self contained	Self contained	Self contained	Self contained
	Commercial	Commercial	Commercial	Commercial	Commercial
	■	■	■	■	■
	■	■	■	■	■
		■			
	■	■	■	■	■
	■	■	■	■	■
	IP 67	IP 40 / IK 06	IP 65 / IK 08	IP 65 / IK 08	IP 65 / IK 08

Emergency lighting portfolio

Stanilite - AU-NZ

					
Range	**Platinum Batten LED Vandal proof IK10 Nexus - 2 foot**	**Platinum Flood light LED weatherproof**	**Platinum Circular LED weatherproof**	**Economy Exit LED (base)**	
	Self contained	Self contained	Self contained	Self contained	
Type of projects	**Commercial**	**Commercial**	**Commercial**	**Distributor select**	
Technologies					
Nexus RF Infinity	■	■	■		
Single Point Unit	■	■	■	■	
DALI					
Nexus LX	■	■	■		
Functions					
Exit sign					
Escape route lighting	■	■	■		
Degree of protection					
Degree of protection	IP 20 / IK 10	IP 65	IP 65 / IK 08	IP 20	

		 			
	Economy Spitfire LED (recessed)	**Economy Spitfire LED (surface)**	**ECO Flood Light LED weatherproof**	**Economy Batten LED - 4 foot**	**Economy e-Luna Circular LED**
	Self contained	Self contained	Self contained	Self contained	Self contained
	Distributor select	**Distributor select**	**Distributor select**	**Distributor select**	**Distributor select**
	■	■	■	■	■
	■	■	■	■	■
	IP 20	IP 54	IP 65	IP 40 / IK06	IP 20

DALI emergency lighting
Why use DALI with emergency lighting?

Regular system checks must be carried out to guarantee that any emergency lighting system is fully operational. Emergency lighting with DALI constantly monitors the system, storing reports of any failures or issues and ensuring that the system is 100 percent healthy for the maximum time possible. The health of building occupants is assured, and automatic monitoring reduces maintenance costs.

DALI emergency system key features:
- Central monitoring from touch screen panel
- Report logging software
- Functional and full duration tests
- Faults reported to central computer, reducing maintenance time and costs
- Fully addressable emergency system with central test to BS-EN and IEC standards
- Switching of maintained luminaires, individually or per group
- Scheduled tests can be programmed via the touch screen panel and automatic tests can be staggered minimising disruption to building users and still protecting every area in case of a real emergency
- Based on the international industry standard DALI protocol
- Utilises standard DALI bus wiring

Advantages of using DALI with emergency lighting

1. Proven DALI technology specific for emergency lighting

2. Our DALI solution is based on non-proprietary systems. As long as all components of a system are DALI compliant, they will be able to communicate with each other

3. Cost-effective solution with reduced maintenance costs after commissioning

4. With the addition of the ABB DALI gateway, we can connect our DALI luminaires with KNX systems and BMS

5. DALI (DiiA) Certified

DALI emergency lighting
Safety of emergency lighting



It has never been more important to ensure the safety of a building, because ensuring safety requires full knowledge that the emergency lighting is fully operational and healthy.
DALI emergency is an extension of the DALI protocol, allowing for monitoring of the status of emergency fittings from a touch screen. Proven DALI technology is specific for emergency lighting.

About DALI emergency
DALI - Digital Addressable Lighting Interface - is an open standard defined under EN62386. This standard ensures that all DALI-compatible emergency control systems work in synchronization and that the technology is available to multiple device manufacturers.
DALI emergency lighting is a cost effective monitored emergency system that often betters the traditional systems
As a standalone monitored emergency system DALI emergency can monitor lamp and battery status and advise whether the luminaires are working, faulty, charge levels and hours of use in either normal or emergency operation.

As DALI is a two-way communication protocol, the central control can send commands to the luminaire and they will send back information to the control system.
Its a mandatory requirement that building owners are taking steps to ensure that their emergency lighting installations are routinely tested, with detailed records maintained. The associated labour costs have resulted in the owners of many larger buildings or building complexes investing in automated centralised test systems.
This type of system has also become increasingly popular since changes to the fire regulations now place the legal responsibility for recording these testing procedures solely with the building owners.
The benefits of using DALI central test systems for emergency lighting applications are wide-ranging:
• Increased safety
• Reduced maintenance labour time
• Ongoing monitoring savings

DALI
What is DALI?

DALI (Digital Addressable Lighting Interface) is a data protocol and transport mechanism that was jointly developed and specified by several manufacturers of lighting equipment.

It is essentially a network connected by a pair of cables and powered by a power supply.
The common platform of DALI enables equipment from different manufacturers to be connected together. ABB's DALI is designed to work with all DALI-compliant equipment displaying the DALI logo.
Put simply, DALI (digital addressable lighting interface) is a two-way communication system that brings digital technology to lighting.

An international standard for communication, DALI allows individual ballasts to "talk" to the user and allows the user to "talk" back via DALI controllers.

DALI is a testing and control system that offers both flexibility and reliability.

Bus wiring
In terms of wiring a DALI system also includes the bus wires that are used to connect together the DALI terminals of the various devices in the system.
- Standard 2-core cable (1.5mm2)
- 5-core cable possible to enable power and data
- Polarity free & free wiring topology
- maximum 64 devices per subnet (Hub/Routers)
- maximum 300m cabling
- maximum 250mA device consumption

Control devices
Control devices can provide information to other control devices and can send commands to control gear. Input devices are a type or a part of a control device that provides some information. Application controllers are also a type or a part of a control device and are the decision makers in a DALI system – for example, they can send commands to control gear to modify the lighting or test an emergency lighting system.

Bus power supplies
At least one bus power supply must be present in a DALI system. This is necessary to allow both communications on the bus, as well as to power any bus-powered devices. The bus power supply does not need to be a separate unit – it could be part of another device such as an DALI control unit or a KNX DALI gateway.
ABB has 3 different power supply options.
The central control DALI Touch screen panel or the KNX DALI gateway. Only one power supply is needed in each network.

Control gear
Control gear usually contains the power control circuit to drive lamps, or some other type of output such as on/off switching.

DALI emergency lighting
Testing & monitoring

ABB DALI emergency lighting offers automatic test functions from either a central controller or from the luminaire itself. This ensures you will always know the status of your emergency fitting. Effective monitoring helps to ensure the safety of building occupants and give building owners the peace of mind they require.

—
01 DALI emergency lighting and control system - Normal
—
02 DALI emergency lighting and control system - Error detected

Automatic testing & monitoring
Automatic monitoring includes the status of battery charging and the status of the main power supply. Central testing includes the current battery charge condition, functional tests and duration tests. Test frequencies can be adjusted to meet the requirements of the building or the local regulations. Testing periods can vary from weekly to monthly in the case of function tests, or annually for duration tests.

Function test
A function test that simulates a mains failure and checks the operation of the emergency light from the battery supply. If there is a failure during a function test, the local indicator LED changes its status on the luminaire.

Duration test
A duration test simulates a power failure and checks the operation of the emergency light from the battery supply for the rated duration of the product. Duration tests can be one, three hours or more depending on the local regulations. If there is a failure during a duration test, the local indicator LED alerts you to a problem or, in the case of a system monitored from a central location, the emergency lighting DALI control unit (DCU) will alert by showing an error message. As with all central test systems that require annual duration testing, this is only started after the battery has had an initial uninterrupted 24 hour+ charge period.

Local testing
Function and duration tests are initiated by the emergency light fitting. It performs automatic testing according to the locally stored settings.

Central testing
Function and duration tests are initiated by the DALI control unit and displays results on the screen.

Switching
Maintained luminaires can be switched and grouped.

Emergency lighting and control unit



—
01



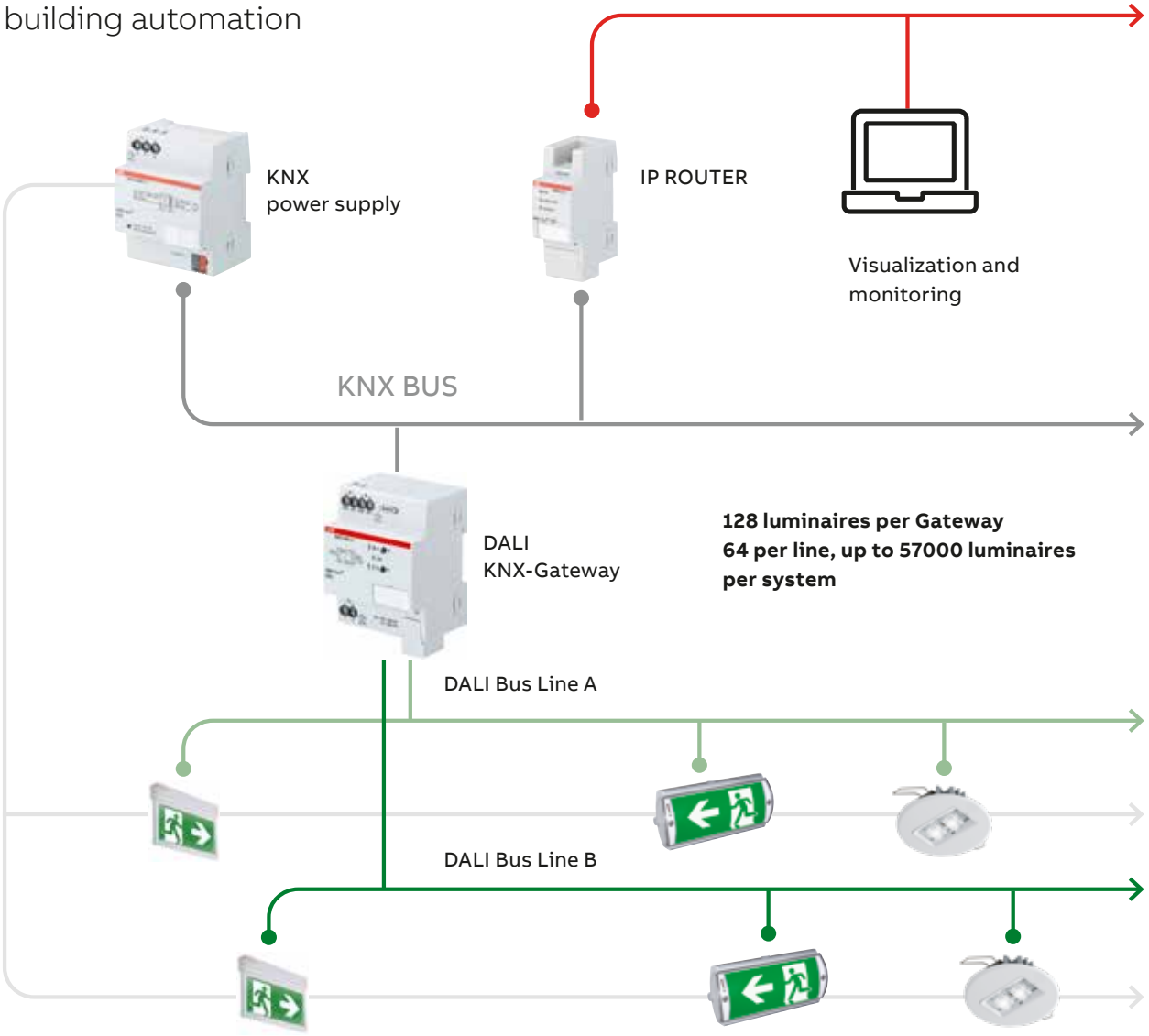
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02

KNX Integration

Connection via DALI-KNX Gateway to KNX systems

- Central monitoring, testing and control via the KNX building automation through integration of DALI self-contained emergency lighting via the DALI-KNX Gateway
- Alternative to the DALI emergency lighting control unit - ELDCS (both can't be used together)
- DALI-KNX Gateways for 64 and 2x64 luminaires
- Can be combined with DALI luminaires for general lighting
- Additional software required for use

DALI-KNX Gateway with integration in building automation



DALI control unit (DCU)

Productivity & reliability

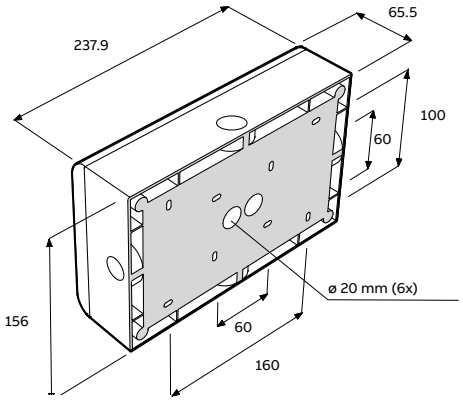


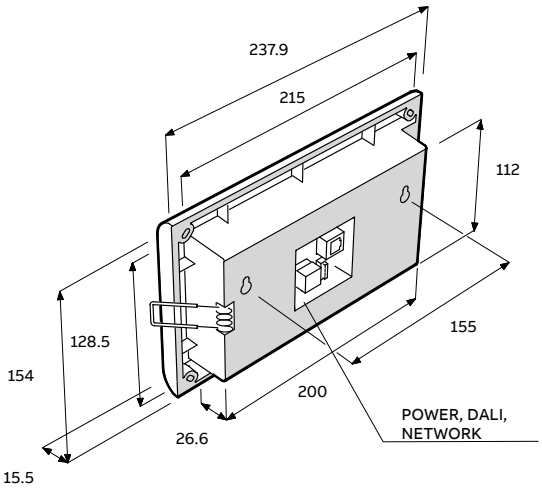
DALI emergency lighting control panel

- Ensuring building occupant safety
- Touch screen to control, test and monitor emergency lighting
- Simple to group and easy to install

Control unit

Type Code	Order code	Material code	Description
ELDCS1/DALI/ABB	7TCA305060R0005	ELDCS1/DALI ABB	DALI emergency control unit





Naveo®Pro
The emergency lighting inspection and maintenance solution

The Naveo®Pro inspection and maintenance system provides a digital overview via the cloud – providing ready information to assist resource planning and enhance building safety. This information can be processed directly using a mobile device.

—
01 The ABB Ability™ platform is an integrated Internet platform and cloud infrastructure.

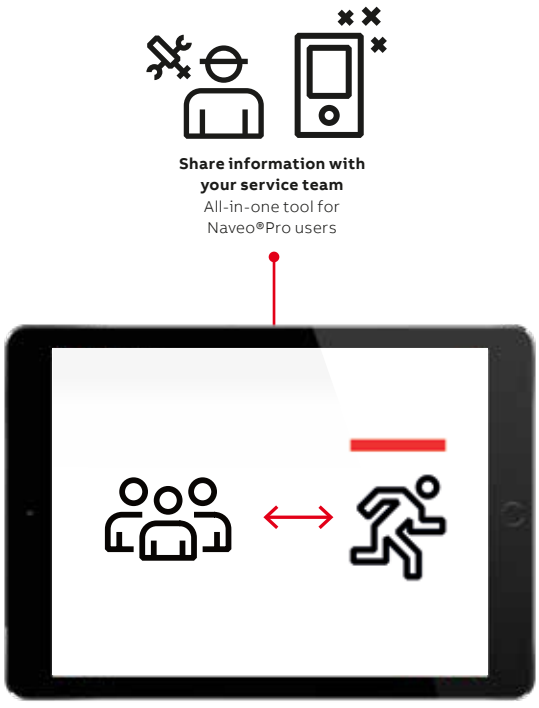
In practice, this will save you time on collecting and entering information. Naveo®Pro gives you integrated cyber security for safety and reliability, enables better maintenance planning, and reduces operating costs.

Overview in inspection and maintenance
In practice, ongoing inspection, maintenance and testing of emergency lighting is a time-consuming process with a great deal of work that has to be carried out regularly during every year that the installation is in place. These costs can be out weighed with a centralised automatic test system.

With Naveo®Pro you can concentrate on what matters: letting your emergency lighting luminaire system manage itself and reduce the amount of time monitoring it. This will quickly save you a considerable amount of money on maintenance time, allowing you to focus on problems quickly and as they happen. In figures, this could have potential savings of up to 30% on costs each and every year.

An overview of the advantages
- Inspection and maintenance software for mobile device
- Save time in planning maintenance ahead
- 24/7 overview of all monitored buildings via google maps
- Save administration time with on-site data entry using your mobile app
- Status alerts pushed to your mobile device
- Automatic list of (replacement) parts, including article numbers
- Ensuring that intended design of the emergency lighting installation is never compromised
- Documents can be used to prove safety of building to insurance companies, e.g. Liability and Buildings Insurance

ABB Ability™ enables Intelligent Buildings
ABB Ability™ connects our customers to the power of the Internet of Things and, through our services and expertise, goes further by turning data insights into the direct action that "closes the loop" and generates customer value in the physical world.



—
01

Naveo®Pro

The emergency lighting inspection and maintenance solution

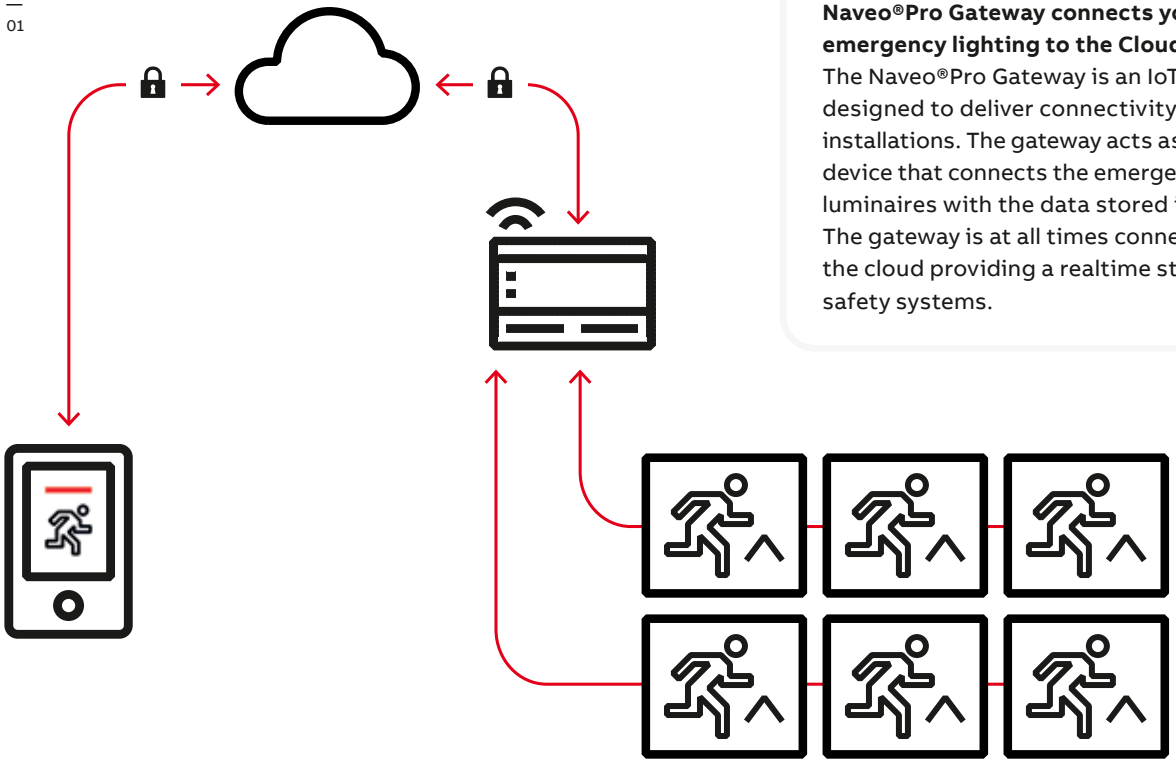
01 The Naveo®Pro architecture for emergency lighting consists of three tiers; emergency lighting luminaires, the ABB gateway and the cloud.

Connecting your emergency lighting luminaires to the ABB gateway is simple and makes real time system status information readily available and easy to process via the cloud. Having this information enables you to get status directly to your mobile device. This method of accessing controlling, and monitoring the status of your installation, makes maintenance of your installation a great deal easier.

How does it work?
With Naveo®Pro being connected all the time, your emergency lighting system is always fully up to date. You can easily set up the connection:

- The Gateway continuously receives all luminaires data and pushes this information to the Naveo®Pro app.
- On continuous request from the cloud the Gateway automatically sends all (test) data to the Naveo®Pro app. With Naveo®Pro you are therefore constantly in touch with your system status anytime and anywhere.
- During a visual inspection of your building you can add notes directly into the app which means you can record your visual risk assessments in one place.

01



Naveo®Pro Gateway connects your emergency lighting to the Cloud
The Naveo®Pro Gateway is an IoT Gateway designed to deliver connectivity to all types of installations. The gateway acts as a networking device that connects the emergency lighting luminaires with the data stored in the cloud. The gateway is at all times connected to the cloud providing a realtime status of your safety systems.

* Up to 500 luminaires per gateway.

The Naveo®Pro app

Set up, maintain and fully control your entire emergency lighting installation with a new mobile app.

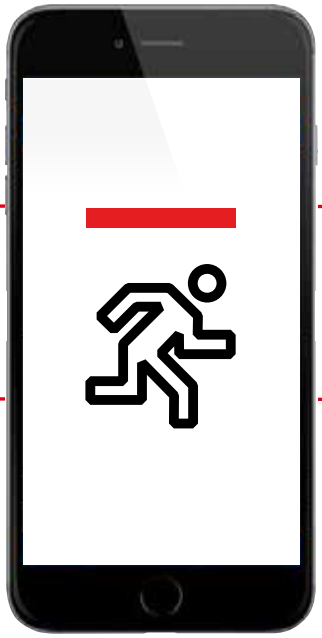
The Naveo®Pro App provides a real time overview of all systems, saving time, enabling better maintenance planning and enhancing building safety.
With the Naveo®Pro app, all types of emergency luminaires can be easily installed and programmed into a building in a fast and intuitive way using a QR code.

Through the ABB Ability™ platform, the system provides a digital overview via the cloud, giving instant information to assist resource planning and enhance building safety, which can be processed directly from a mobile device.

With emergency luminaire data stored in the cloud, the mobile app provides a 24/7 overview of all smart monitored buildings via Google maps. Building maps can be uploaded and overlaid onto Google maps, showing its current status and providing a clear and precise location of the emergency lighting luminaire.

Set-Up
Easily install and add new devices to your building through a list or map

Maintain
Defective devices are automatically detected and reported on your device in addition to push notifications



Test
Run test instantly or program them to ensure that all your devices are working properly

Share
Easily share the results of tests with other people on your team

Naveo®Pro system components

Order Code	Description
51000040	Naveo®Pro GW 1.0
758740	Naveo®Pro Gateway mounting plate
51000041	Naveo®Pro GW 1.0 wired and iPad wifi
51000042	Naveo®Pro GW 1.0 wired and iPad cell
758730	Naveo®Pro antenna 5 GHZ wifi

Nexus®Pro
A new age of intelligent solutions

Our lives are touched daily by the Internet. It widens our horizons and improves our capabilities by connecting us to a wider community and their collective knowledge.

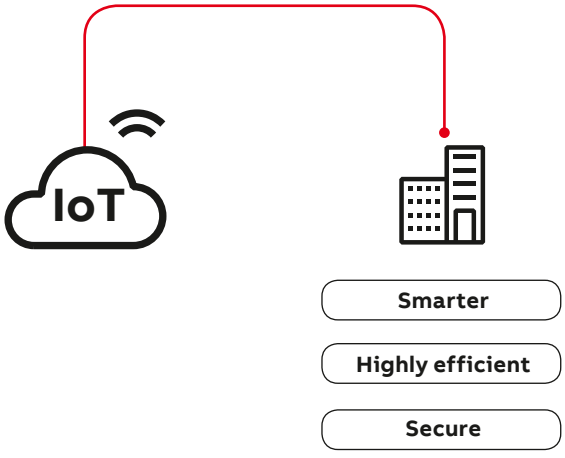
For over a decade, ABB has been working to develop and enhance process control systems, communications solutions, sensors and software for the Internet of Things (IoT). These technologies enable all building owners in industries, utilities and infrastructure to analyze their data more intelligently, optimize their operations, boost their productivity, and their flexibility. ABB is advancing the IoT by helping customers enhance their existing technologies, while keeping sight of our enduring commitment to safety, reliability, cybersecurity and data privacy.

High level of cybersecurity
Cybersecurity can be a big concern in the world of IoT. Over the year, cybersecurity for automation and control systems has gained a lot of attention and is becoming increasingly important for all building managers or owners.

In the age of IoT, it's clear that "security" means much more than protection against cybercrime: certainly, connections need to be safe, but the value of that data should also be protected. Customers should not be required to forfeit safety, value, or control in order to realize the benefits of digitization.

By understanding market conditions, customer needs and the cyber environment, ABB strives to achieve and exceed the required levels of cybersecurity without compromising operational performance. Our solutions are aimed at reducing business risk, providing comfort and confidence, as well as enabling compliance with standards and legal requirements.

Digital connectivity
Driving change and innovation



Nexus®Pro
Solution and benefits

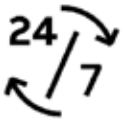
Nexus Pro is designed to enable building owners and managers to easily maintain and test emergency lighting, without the need to visually verify performance or disrupt the power supply.
With digital solutions, building owners now can have peace of mind knowing their buildings are safer than ever. All operations can be managed remotely, giving building owners and managers complete control wherever they are, whenever they need it most while preventing any human error in the process.



Cost effective
- Reduce labor costs for maintaining emergency lighting
- Saving on cost and labour on manual collection and recording of emergency lighting data
- 200 emergency lighting units on one gateway • Reduce Monitoring costs by simply receiving notification once there is defective device



User friendly
- Monitor remotely anywhere at anytime
- Fast and easy testing with a smart device
- Interactive 2D floor plan layout showcasing emergency lighting positioning
- Software updates automatically applied
- Easily go from one building to many with our scalable system



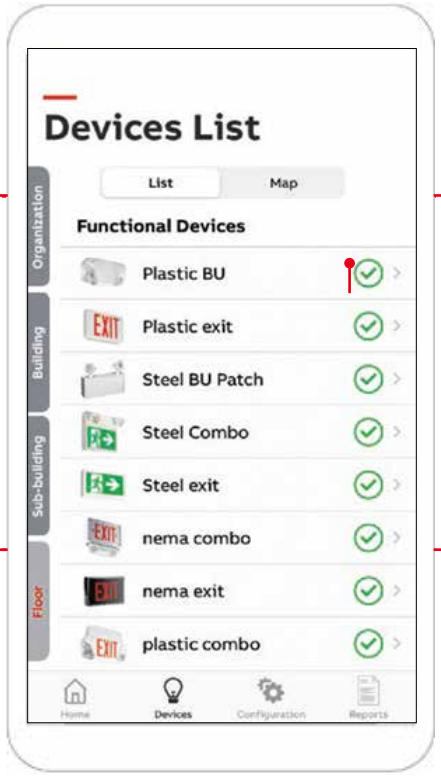
Enhanced Safety and Protection
- Comply with Building and Life Safety Codes and other North American regulations
- Real-time self-monitoring and maintenance alerts if units stop functioning
- Holds all emergency lighting testing and maintenance data in a secure ABB cloud
- Ownership of maintenance data input, quick testing and device monthly and annual scheduling



Improve installation efficiency
- Quick and flexible commissioning
- Ease of use due to app configuration
- Get diagnostics and part number recommendations during failures

Set up
EEasily install and add new devices through your smart device

Maintain
Defective devices are automatically detected and reported on your interface in addition to push notifications



Test
Run test instantly or program them to ensure that all your devices are working properly

Share
Easily share the results of tests with team members, maintenance staff and technicians





Notes

Electrical installation solutions for buildings

ABB-free@home®

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You may also visit our ABB-free@home® website:

Freedom
Home becomes smart

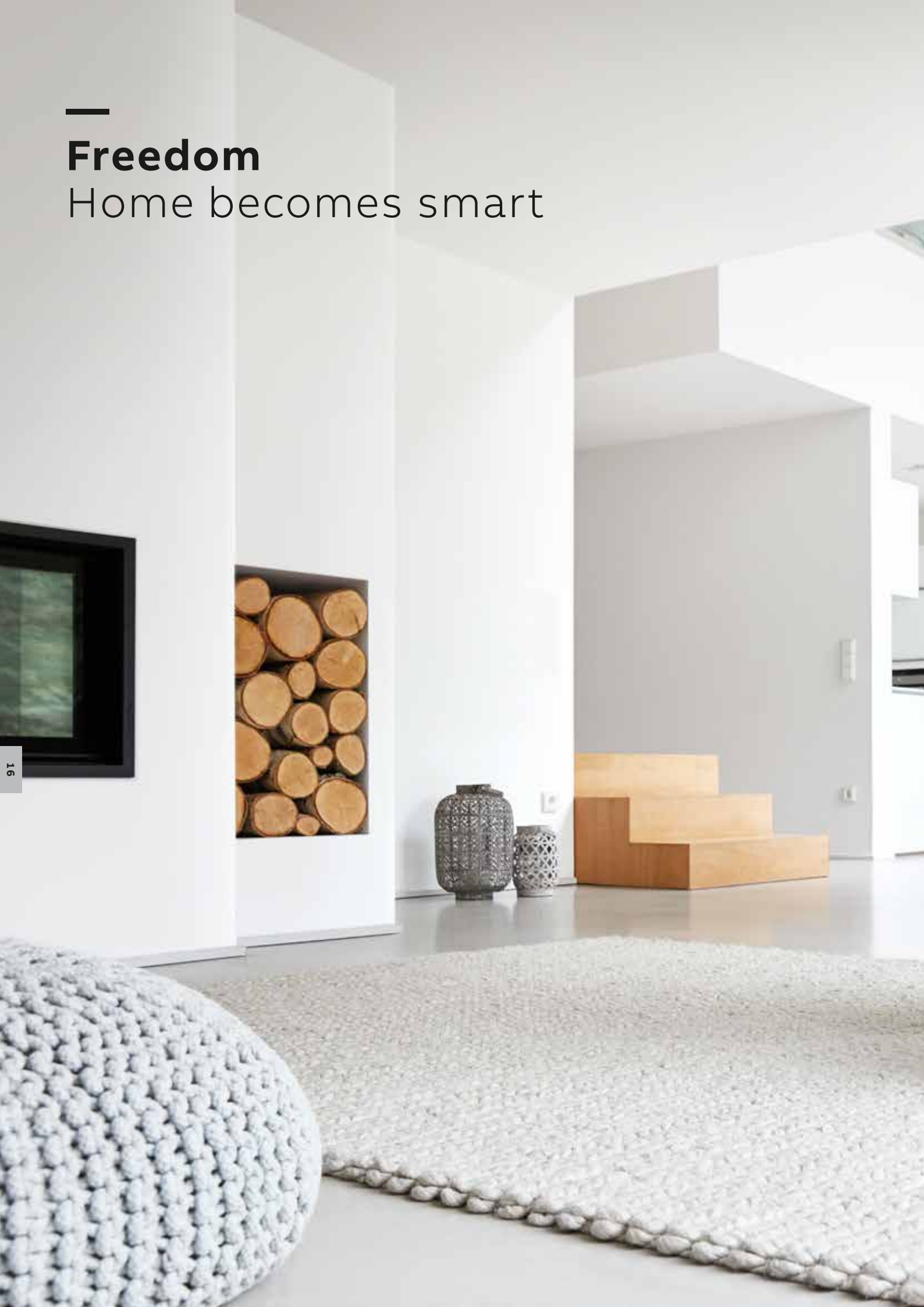




ABB-free@home®
Endless installation possibilities

Perfect daily routine. With ABB-free@home® the entire home can be controlled as usual with switches, and now even more practical: with the smartphone, tablet, or computer. Via touch or voice control.







Blind

Light

Heating

Air-conditioning

Door communication



Open for new ideas
With ABB-free@home® everyone can determine for themselves how they want to use the smart living technologies. Both individual functions, such as heating or control of blinds, or a combination of different functions can be implemented. Over the course of time the system can also be flexibly extended, if one so desires. Freedom of choice at all times.



Blinds
Whether blind, roller blind, awning or roller door – with ABB-free@home®, sun protection and energy-saving could not be easier. Opening and closing, as well as adjustment of slats can be automated and controlled. In addition, a weather station for protection during a storm, a timer or astro function can be used. It automatically adjusts the blind according to sunrise and sunset. The relevant data are combined in the System Access Point and are precisely implemented.



Light control
Life begins with light.
With ABB-free@home® it can be optimally used, whether for illuminating individual rooms or the entire house. For example, with striking light scenes – for different moods and to suit the occasion. A pleasant side effect here is the cost-saving and environmentally friendly use of energy.



Heating and air-conditioning
Comfortable and energy-saving. The optimum room temperature can be adjusted according to the actual requirement. The heating can be automatically shut off when the windows are open. This reduces energy consumption. The ideal temperature is never the same. Depending on the time of the day, the room temperature controller provides your personal feelgood temperature. The heating valves are controlled wirelessly – with radio controlled thermal actuating drives. The room temperature controllers can be integrated into the switch combination. And the window contacts are networked wirelessly.



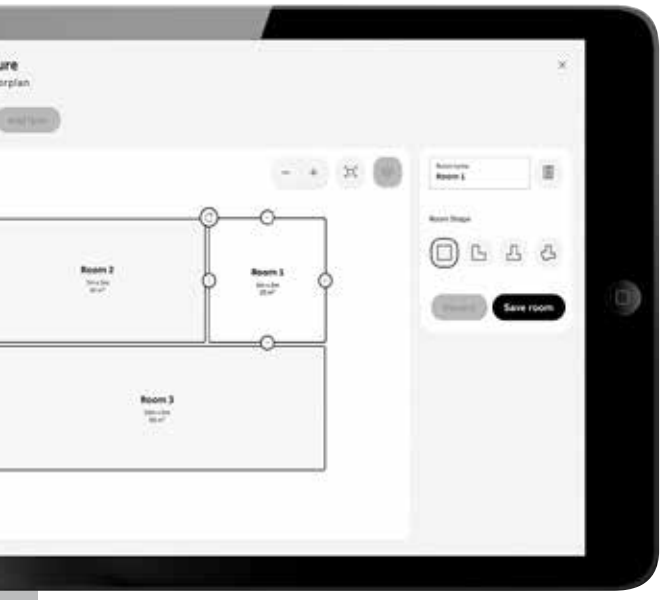
Door communication
The ABB-Welcome door communication system can be integrated into ABB-free@home®. The door communication and home automation can be used together with ABB-free@home-Touch 7". For example, the light switches on when the doorbell rings to see visitors more clearly. And for reasons of safety, the video camera records pictures of visitors at the door when no one is home.



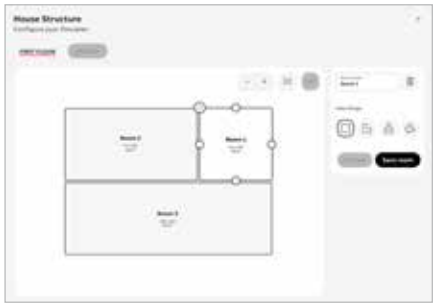
Integration of home appliances
The smooth integration of modern household appliances into ABB-free@home® offers a variety of options for convenient use. All networked devices with their icons are displayed in the free@home app and the ABB-free@home® panel and can be controlled from there. All functions can also be directly controlled via the wall-mounted pushbuttons, which is possible only with free@home.

So easy, anyone can do it
Creating scenes

Intuitive operation. The ABB-free@home® app is easy to understand.
To start with, all available devices in the rooms are activated in the display, allowing the favourite settings to be made immediately via drag-and-drop.



Easy to install – and even easier to operate
The ABB-free@home® app has been optimised for use in daily life. The wizard guides one through the system. The most important functions are clearly marked with self-explanatory icons. It makes no difference whether the components are connected in the two-wire bus or wirelessly. One has control over a uniform system. For maximum security, a personal password can be activated when logging in. This protects the home automation system against unauthorized access and tampering.



The house
First the electrician sets up the floor plan with its floors and rooms.

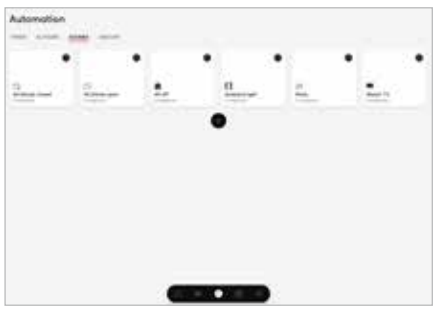


Assigning
Then the sensors in the app are integrated in the floor plan and assigned in the system.



Combining
And finally, the elements can be combined according to individual preferences and requirements.

Simple and time-saving
The electrician performs the initial configuration of the system via app. Operation is particularly fast and saves on costly billable hours.



Scene control
The user can easily combine the switches and devices available in each room to create personal scenes. The lighting scene for an evening on the sofa, for example.



Time control
Roller blinds can be automatically moved and lights can be switched at any time or dependent on sunrise or sundown.



Panel setting
The most important functions can be controlled from a central location in the house and easily changed later at any time.

Simply effortless
This saves valuable labour time

Now easier than ever. Only a few components are needed to install ABB-free@home®. For the direct activation of light, the entire system only requires a bus cable, the sensor/actuator unit, a power supply and a System Access Point for programming.

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01



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02



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03



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04

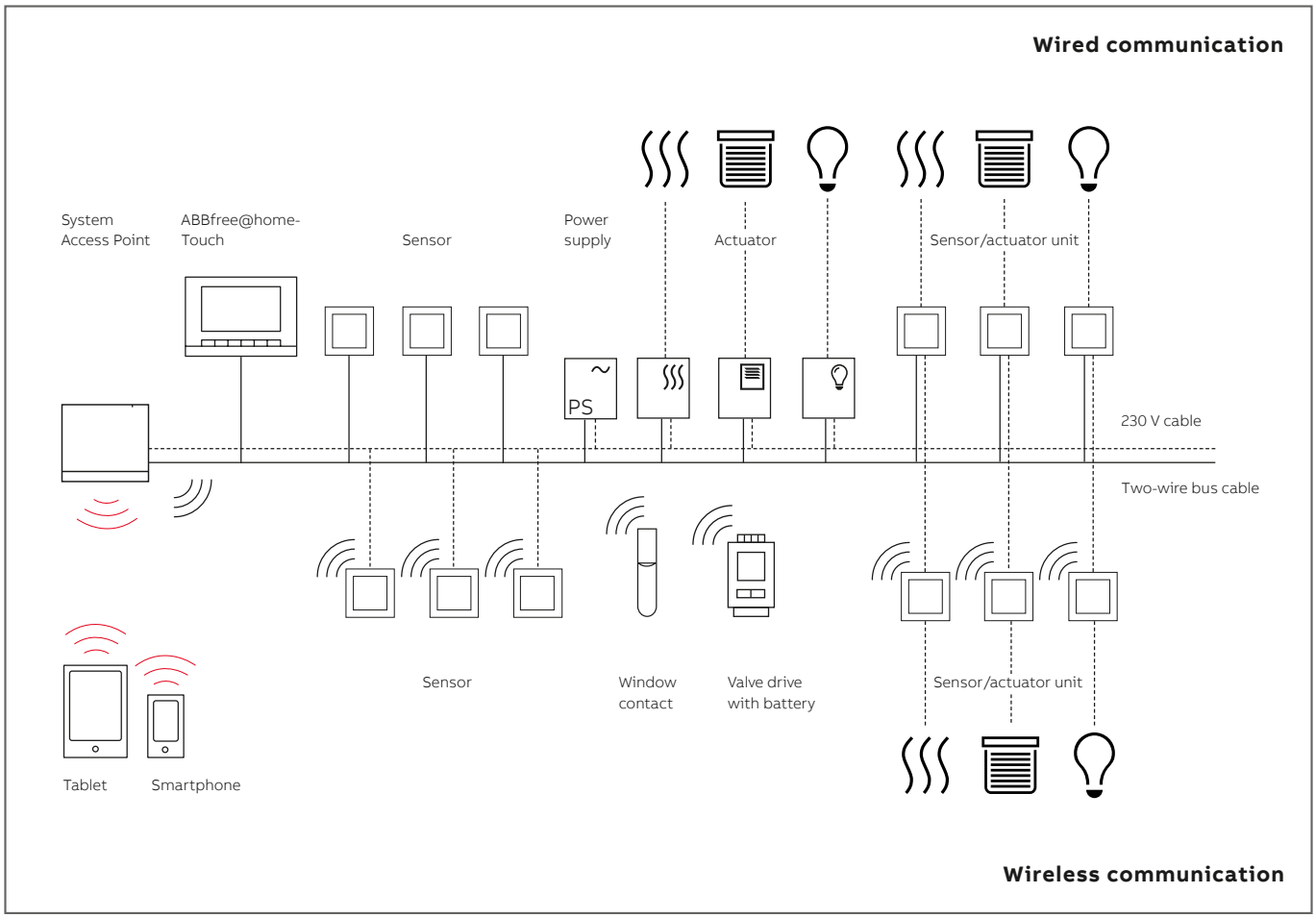


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05

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01 System Access Point
—
02 Sensor, 1gang
—
03 Switch actuator, 4gang
—
04 Binary input, 2gang, flush-mounted
—
05 Power supply

The System Access Point
The nerve centre of the ABB-free@home® system is the System Access Point. It provides access for computer, tablet or smartphone via WLAN. This allows the functions of the system to be defined and remotely controlled – even after installation. The System Access Point can also be combined with a network router – via LAN or WLAN. Just connect and you're done. For convenience, the System Access Point creates its own WLAN and the software necessary for project planning and commissioning is already on board. This makes you independent from the structural conditions and no additional software is required. As soon as you are finished with programming you can save the status and restore it again at any time.

The actuators and sensors
Actuators for switching, dimming and control are available for ABB-free@home®. The flush-mounted binary inputs also allow the integration of conventional switches and devices, such as window contacts, for example. Push-buttons, room temperature controllers and movement detectors are available as sensors.



Central distribution board with rail-mounting actuator
The installation of central rail-mounting actuators in the consumer unit makes the installation of the sensors even easier – as only the bus line is located in the flush-mounted box. With this method, the costs for each channel can be reduced.

Sensor/actuator unit for decentralised control
All in one. With the sensor/actuator unit, both the sensor and actuator are located in a single device to save space. The basic function of the unit is pre-configured, which makes programming the basic function unnecessary – but possible if required. The 230-volt line is wired as usual.



Sensor/actuator unit
The sensor/actuator unit combines a control element and, for example, a switch actuator in the single flush-mounted housing. It is installed in the same way as a flush-mounted switch. The device has already been pre-programmed: this means the light can be switched on directly after installation – without any programming. The sensor/actuator unit can, of course, be freely re-configured via the user interface, just like all other sensors and actuators.

ABB-free@home®

System devices



Basic free@home radiator thermostat, wireless [1) 2)]
For temperature control of hydronic heating radiators.
With integrated temperature sensor, controller and actuating drive.
Local operation for the switchover between comfort mode and Off.
No wire laying required.
Communication with the free@home system is carried out wireless.
Setpoint adjustement via the free@home app or a temperature controller extension (e.g. RTC-F-1).
“Window open” detection when combined with Window sensor Wireless (WBI-S-1-XX-WL).
With lime protection function.
With frost protection function.
Quiet operation.
Installation with sleeve nut M 30 x 1.5.
Fits many popular valve bases (e.g. Braukmann, Heimeier, Honeywell, Junkers, MNG).
The adapters for Danfoss RAV, Danfoss RA and Danfoss RAVL are included in the scope of supply.
Adapters for additional valves are available as accessories.
Battery included in scope supply.
Battery type: 2 x AA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 63 mm x 48 mm x 84 mm

WIRELESS	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	232453	HA-S-1-WL	2CKA006200A0133			1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

ABB-free@home®
System devices



Comfort free@home radiator thermostat, wireless [1) 2)]
For temperature control of hydronic heating radiators.
With integrated temperature sensor, controller and actuating drive.
Local operation for the switchover between comfort mode, eco mode and Off.
No wire laying required.
With integrated Display and control knob for Setpoint temperature adjustment.
Setpoint adjustement locally, via the free@home app or a temperature controller extension (e.g. RTC-F-1).
Integrated “Window open” detection or can be linked with WBI-S-X-WL.
With lime protection function.
With frost protection function.
Quiet operation.
Installation with sleeve nut M 30 x 1.5.
Fits many popular valve bases (e.g. Braukmann, Heimeier, Honeywell, Junkers, MNG).
The adapters for Danfoss RAV, Danfoss RA and Danfoss RAVL are included in the scope of supply.
Adapters for additional valves are available as accessories.
Battery included in scope supply.
Battery type: 2 x AA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 63 mm x 48 mm x 84 mm

WIRELESS	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	232460	HA-S-2-WL	2CKA006200A0134			1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

ABB-free@home®
System devices



Valve adapter Herz
Metal adapter for installation radiator thermostat. (HA-S-X-WL).
For valve bodies Herz M 28 x 1,5.

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	232590	AC-HA-1	2CKA006200A0138			1



Valve adapter Comap
Metal adapter for installation radiator thermostat. (HA-S-X-WL).
For valve bodies Comap M 28 x 1,5.

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	232613	AC-HA-2	2CKA006200A0139			1



Valve adapter Orkli
Metal adapter for installation radiator thermostat. (HA-S-X-WL).
For valve bodies Orkli M 28 x 1,0.

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	232620	AC-HA-3	2CKA006200A0140			1

ABB-free@home®
System devices



free@home window sensor, wireless [1) 2)]
For monitoring of the current window handle position.
The status can be visualized on the free@home panel and in the free@home app.
The window sensor is installed between the existing window handle and the window frame.
Existing window handle is used.
Suitable for window handle: 7 mm square fastener, 43 mm
attachment screw separation, lifter dia. 10 and 12 mm, max.
mounting plate size 34 x 77 mm (WxH). No wire laying required.
Mounting accessories (square extension, screws, adapter for cams) are included.
Battery included.
Low Battery notification via the free@home app.
Protection class (Device): IP 43
Temperature range (Device): -5 °C to 50 °C
Dimensions: (L x W x D): 168 mm x 38 mm x 13 mm

WIRELESS	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
64 studio white matt	215906	WBI-S-1-64-WL	2CKA006200A0101			1
65 basalt black	215920	WBI-S-1-65-WL	2CKA006200A0103			1
66 stainless steel	232484	WBI-S-1-66-WL	2CKA006200A0142			1



free@home universal detector, wireless [1) 2)]
For monitoring of the state (open, closed) of windows, skylights, doors and gates with a magnetic contact.
Additional connection option for an external, potential-free sensor
(choice of normally closed or normally open contact).
The status can be visualized on the free@home panel and in the free@home app.
The magnetic contact and the potential-free input can be monitored separately.
The universal detector and the magnets are fixed with adhesive film or screws.
Accessories (adhesive foil, screws, magnet) included in delivery.
Battery type: CR2
Low Battery notification via the free@home app.
External sensor max. wire length: 5 m
External sensor terminal connection diameter : 0.14...0.5 mm² (single wire)
Protection class (Device): IP 43
Temperature range (Device): -5 °C to 50 °C
Dimensions: (L x W x D): 118 mm x 30 mm x 22 mm

WIRELESS	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
64 studio white matt	215913	BI-S-1-64-WL	2CKA006200A0102			1
65 basalt black	215937	BI-S-1-65-WL	2CKA006200A0104			1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

ABB-free@home®

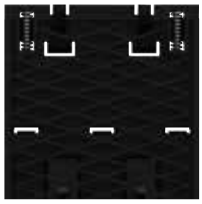
System devices

System Access Point 2.0
For commissioning and remote control of the ABB-free@home® system.
Support for up to 150 free@home participants (independent of whether wireless or wired).
With integrated free@home wireless antenna.
With integrated free@home bus connection.
Easy to mount thanks to the external power adapter (included in the scope of delivery).
Optional supply via the yellow/white twisted pair of the bus line (24 V).
Allows the execution of astro and time programs.
Commissioning and remote control is executed via the web interface or app.
No additional commissioning software is required.
Easy commissioning with WLAN ad-hoc mode.
Connection to the home network via WLAN client mode or via CAT cable.
Suitable as table device.
Suitable for wall mounting.
2 x USB ports for future extension of functions.
2.4 GHz and 5 GHz WLAN
1 GHz dual core processor
512 MB working storage
Scope of delivery: Mounting plate, power adapter, screws and dowels
The bus connection is provided via the enclosed bus terminal.
Display elements: LED for status display.
Bus voltage: 24 V
Rated voltage: 230 V~
Rated frequency: 50 Hz / 60 Hz
Protection class (device): IP 20
Temperature range (device): -5 °C - 45 °C
Storage temperature range: -20 °C - 70 °C
Dimensions: (L x W x D): 107 mm x 109 mm x 30 mm
Programming via the web interface of the System Access Point.
Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current Online-Catalogue.
A bus power supply is required for the operation of free@home wired devices.
When operating with more than 64 participants, an additional bus power supply is required.

Rated voltage: 230 V~

		Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
		EAN	Type code	Order code		kg	pc.
WIRELESS							
84 studio white	NEW	261583	SAP/S.3	2CKA006200A0155			1

ABB-free@home®
System devices



DIN Rail Adapter
For mounting the free@home System Access Point 2.0 on a mounting rail.
Mounting is carried out without tools.

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	261637	SAP-A1.1	2CKA006200A0158			1



External antenna
for ABB-free@home®
For use with System Access Point SAP/S.3
Feed the free@home wireless signal to the outside when the internal antenna of the System Access Point is shielded due to structural conditions.
With magnetic base.
Cable length: 1.5 m

WIRELESS	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	216224	SAP-1-WL	2CKA006200A0100			1

Alarm Stick
Suitable for the free@home system integration of the Busch-Smoke alarm detector, Busch-Heat detectors and Busch-CO Alarm via the associated radio modules
System prerequisite: ABB-free@home® System Access Point from SAP/S.3.
Including USB extension cables for practical fixing outside the junction box
Integration of alarm devices as free@home participants.
Linking of the integrated detector with scenes and groups.
Generation of Pusch notification in case of an alarm for mobile terminal devices.
Radio frequency: 868 MHz



SAP/A2.1

	Order details		Price 1 piece	Weight 1 piece	Pack unit
	Type code	Order code		kg	pc.
	SAP/A2.1	2CKA006800A2868			

1) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

ABB-free@home®
System devices



Weather station
For recording and transmitting of brightness, temperature, wind speed and rain.
Weather data can be linked with actuators to automatically control functions.
Weather data can be visualized in the ABB-free@home® web interface and the ABB-free@home® app.
Wind speed measuring range 2 - 30 m/s
The bus can be connected via enclosed terminal block.
Rated voltage: 110 V~ - 230 V~
Rated frequency: 50 Hz - 60 Hz
Bus voltage: 24 V-
Inputs: 4
Protection class (Device): IP 44
Temperature range (Device): -20 °C to 55 °C
Temperature range (Sensor):
Brightness limit value: 1 Lux - 100000 Lux
Dimensions: (L x W x D): 108 mm x 121 mm x 227 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	205525	WS-1	2CKA006220A0212			1

ABB-free@home®
Displays



ABB-free@homeTouch 7" [1) 2)]
Indoor video station with 17.8 cm (7") touch display
For ABB-free@home® and ABB-Welcome®.
For the central control of up to 16 configurable ABB-free@home® functions and display of the video image of an outdoor door communication station. During the conversation a picture of the visitor can be taken and stored in the picture memory. For door calls during absence three pictures of the visitor are automatically stored in the picture memory. With hands-free function, volume is adjustable. Easy operation keys for door openers, mute function and light. Different bell sounds are adjustable for door and floor ringing; five polyphone bell sounds are available. Volume of bell sounds is adjustable. SD card slot for extension of the picture memory. Suitable as room temperature controller extension unit. For surface mounting. The bus can be connected via enclosed terminal block.
Display size: 17,8 cm (7")
Display resolution: 800 x 480
Display elements: TFT Touch Display
Protection class (Device): IP 30
Dimensions: (L x W x D): 155 mm x 218 mm x 29 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
611 white	182420	DP7-S-611	2CKA008300A0356			1
625 black	182383	DP7-S-625	2CKA008300A0357			1

ABB-free@home®
Displays



ABB-free@homeTouch 4.3"
For the central control of up to 16 configurable ABB-free@home® functions.
For the display of configurable system messages.
A configurable primary function can be triggered with a multi-touch gesture.
Capacitive touch screen with closed glass surface. With integrated room temperature controller and temperature sensor. In connection with temperature sensor DP4-T-1 the integrated room temperature controller can be fitted with a remote sensor.
Suitable as room temperature controller extension unit (up to 8).
Requires additional power supply 24 VDC; e.g. 6358-101
Display size: 10.9 cm (4.3")
Display resolution: 480 x 854
Mounting height: 8 mm
Control element: freely programmable touch surfaces, Display elements: 1 LCD display,
Bus voltage: 24 V-,
Protection class (Device): IP 20, Temperature range (Device): -5 °C to 40 °C,
Dimensions: (L x W x D): 104 mm x 143 mm x 53 mm,
No additional commissioning software is required., Programming only with bus voltage applied via the web interface of the System Access Point.

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
625 black	180198	DP4-1-625	2CKA006220A0120			
611 white	180235	DP4-1-611	2CKA006220A0119			

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.



Temperature sensor
For use as remote sensor.
Line type: H03 VV-F
Cable length: 4 m
Type: NTC 10 kohm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	213339	DP4-T-1	2CKA006220A0721			1



Flush-mounted installation box
For flush-mounted und hollow-wall installation of the ABB-free@homeTouch 4.3" DP4-1-6XX.
Windproof.
Installation dimensions (H x W x D): 82 mm x 123 mm x 50 mm
Installation depth: 50 mm
Mounting depth: 50 mm
Halogen free.

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	202296	DP4-F	2CKA006220A0389			1

ABB-free@home®
Displays



IP touch 10

Technical details:
- Intuitive GUI on sliding screen (1024 x 600)
- Dustproof and waterproof as IP30
- Mounting: FM and SM
- Induction loop in all the versions

Dimensions (LAN+LAN)
Height: 251 mm
Base: 185 mm
Width: 31 mm

Dimensions (LAN+WiFi)
Height: 251 mm
Base: 185 mm
Width: 17 mm

		Version	Black	White
LAN+LAN interface	Stainless steel end strip	**Article no.** **Order no.**	H8237-5B 2TMA130050B0055	H8237-5W 2TMA130050W0055
LAN+WiFi interface	Stainless steel end strip	**Article no.** **Order no.**	H8237-4B 2TMA130050B0054	H8237-4W 2TMA130050W0054



Surface mounted box for IP touch 10"
Mounting of IP Touch on the wall.
- For surface-mounted installation of indoor station.
- The product is packed with accessories to ensure qualified installation.

Technical details:
- Dimensions: 251 x 184 x 14 mm

Version	White	Black
Article no. **Order no.**	42371S-W 2TMA130161W0001	42371S-B 2TMA130161B0001

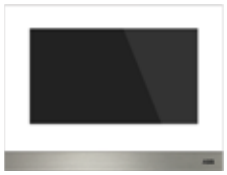


Flush-mounted box & pre-installation box for IP touch 7&10
- Flush-mounted box and Pre installation box for 7&10 inch video indoor station.
- The flush mounting box is fitted with knock down holes for cabling from left, right, bottom or back.
- The product is packed with accessories to ensure qualified installation.

Technical details:
- Dimensions: 194 x 145 x 55 mm, 2 boxes together

Article no.	42361F
Order no.	2TMA130160B0132

ABB-free@home®
Displays



IP touch 7

Technical details:
- Intuitive GUI on sliding screen (1024 x 600)
- Induction loop in all the versions
- Dustproof and waterproof as IP30
- Mounting: FM and SM – depending on the version

Dimensions (LAN+LAN)
Height: 199 mm
Base: 150 mm
Width: 30 mm

Dimensions (LAN+WiFi)
Height: 199 mm
Base: 150 mm
Width: 17 mm

		Version	Black	White	Flush Mounting (FM)	Surface Mounting (SM)
LAN+LAN interface	Stainless steel end strip	**Article no.** **Order no.**	H8236-5B 2TMA130050B0067	H8236-5W 2TMA130050W0067	●	
LAN+WiFi interface	Stainless steel end strip	**Article no.** **Order no.**	H8236-4B 2TMA130050B0065	H8236-4W 2TMA130050W0065	●	●





Surface mounted box for IP touch 7'' panel
Mounting of IP touch 7'' panel on the wall.
- For surface-mounted installation of indoor station.
- The product is packed with accessories to ensure qualified installation.

Technical details:
- Dimensions: 197 x 148 x 13 mm

Version	White	Black
Article no. **Order no.**	42361S-W 2TMA130160W0017	42361S-B 2TMA130160B0080



Flush-mounted box & pre-installation box for IP touch 7&10
- Flush-mounted box and Pre installation box for 7&10 inch video indoor station.
- The flush mounting box is fitted with knock down holes for cabling from left, right, bottom or back.
- The product is packed with accessories to ensure qualified installation.

Technical details:
- Dimensions: 194 x 145 x 55 mm, 2 boxes together

Article no.	42361F
Order no.	2TMA130160B0132

ABB-free@home®
Installation Standards

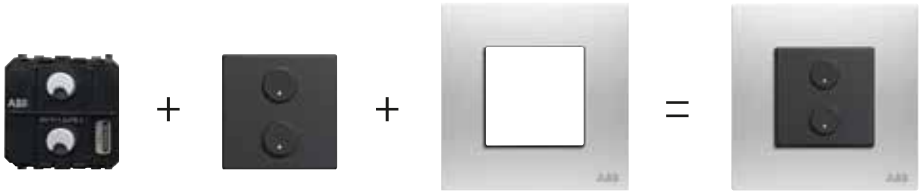
VDE



— 01 — 02 — 03 — 04

— 01 Sensor insert
— 02 Rocker, 1gang
— 03 Cover frame, 1/1gang
— 04 Sensor unit

British standard



— 01 — 02 — 03 — 04

— 01 Switch actuator
— 02 Rocker, 2 fold push buttons
— 03 Frame
— 04 ABB-free@home® Switch Sensor 1/2gang KNX

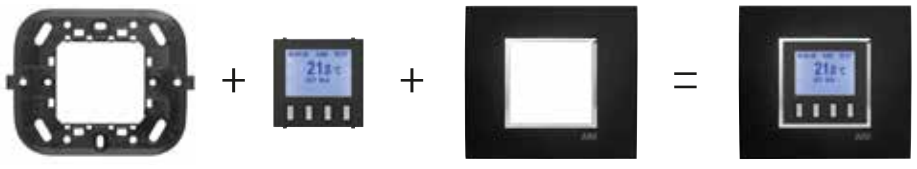
NEMA



— 01 — 02 — 03 — 04 — 05

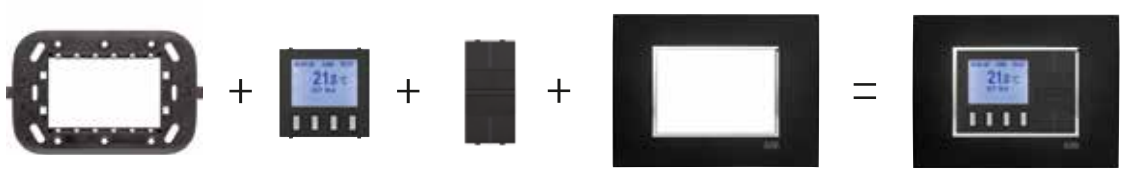
— 01 Metal Mounting Frame
— 02 Sensor insert, 1/2gang
— 03 Cover plate, 2 fold
— 04 Frame
— 05 Sensor unit

Italian standard



— 01 — 02 — 03 — 04

— 01 2 modules mounting grid
— 02 2 modules ABB-free@home® device
— 03 2 modules frame
— 04 ABB-free@home® RTC Unit



— 01 — 02 — 03 — 04 — 05

— 01 3 modules mounting grid
— 02 2 modules ABB-free@home® device
— 03 1 module ABB-free@home® device
— 04 3 modules frame
— 05 ABB-free@home® RTC and actuator unit

ABB-free@home®

VDE

Rocker
1gang, without printing
As cover for ABB-free@home® sensor units and sensor/actuator units

future® linear, Busch-axcent®, solo®, pure stainless steel, carat®, Busch-dynasty®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
81 anthracite	181492	SR-1-81	2CKA006220A0137			1
82 ivory white	203453	SR-1-82	2CKA006220A0516			1
83 aluminium silver	182178	SR-1-83	2CKA006220A0138			1
84 studio white	181836	SR-1-84	2CKA006220A0139			1
803 grey metallic	203866	SR-1-803	2CKA006220A0550			1
840 antique brass	195598	SR-1-840	2CKA006220A0371			1
866 stainless steel	203699	SR-1-866	2CKA006220A0533			1
884 studiowhite matt	204337	SR-1-884	2CKA006220A0601			1
885 black matt	204511	SR-1-885	2CKA006220A0618			1

basic55®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
92 white	204689	SR-1-92	2CKA006220A0635			1
93 champagne	204856	SR-1-93	2CKA006220A0652			1
94 alpine white	205006	SR-1-94	2CKA006220A0669			1
95 chateau-black	205150	SR-1-95	2CKA006220A0686			1
96 chalet white	205365	SR-1-96	2CKA006220A0703			1

Levit®

Color	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
	Type code	Order code			
White	6220H-A01000 03	2CHH621000A4003			1
Grey	6220H-A01000 16	2CHH621000A4016			1
Macchiato	6220H-A01000 18	2CHH621000A4018			1
Anthracite	6220H-A01000 63	2CHH621000A4063			1
Steel	6220H-A01000 69	2CHH621000A4069			1
Silver	6220H-A01000 70	2CHH621000A4070			1

Sky

Color	Bbn 8427238 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
AI Stainless Steel	146270	SR-1-85AI	2CLA852620A1401			1
BL Soft White	135205	SR-1-85BL	2CLA852620A1101			1
NS Soft Black	146287	SR-1-85NS	2CLA852620A1501			1
PL Silver	135212	SR-1-85PL	2CLA852620A1301			1

ABB-free@home®

VDE

Rocker
1gang, with “Light” icon
As cover for ABB-free@home® sensor units and sensor/actuator units

Busch-Duro 2000® SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
212 white	180754	SRL-1-212	2CKA006220A0184			1

Reflex SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
214 alpine white	181140	SRL-1-214	2CKA006220A0185			1

future® linear, Busch-axcent®, solo®, pure stainless steel, carat®, Busch-dynasty®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
81 anthracite	181515	SRL-1-81	2CKA006220A0140			1
82 ivory white	203460	SRL-1-82	2CKA006220A0517			1
83 aluminium silver	182185	SRL-1-83	2CKA006220A0141			1
84 studio white	181843	SRL-1-84	2CKA006220A0142			1
803 grey metallic	203873	SRL-1-803	2CKA006220A0551			1
840 antique brass	195604	SRL-1-840	2CKA006220A0372			1
866 stainless steel	203705	SRL-1-866	2CKA006220A0534			1
884 studiowhite matt	204344	SRL-1-884	2CKA006220A0602			1
885 black matt	204528	SRL-1-885	2CKA006220A0619			1

basic55®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
92 white	204696	SRL-1-92	2CKA006220A0636			1
93 champagne	204863	SRL-1-93	2CKA006220A0653			1
94 alpine white	205013	SRL-1-94	2CKA006220A0670			1
95 chateau-black	205167	SRL-1-95	2CKA006220A0687			1
96 chalet white	205372	SRL-1-96	2CKA006220A0704			1

Levit®

Color	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
	Type code	Order code			
White	6220H-A01001 03	2CHH621001A4003			1
Grey	6220H-A01001 16	2CHH621001A4016			1
Macchiato	6220H-A01001 18	2CHH621001A4018			1
Anthracite	6220H-A01001 63	2CHH621001A4063			1
Steel	6220H-A01001 69	2CHH621001A4069			1
Silver	6220H-A01001 70	2CHH621001A4070			1

Sky

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
AI Stainless Steel	144955	SRL-1-85AI	2CLA852626A1401			1
BL Soft White	144931	SRL-1-85BL	2CLA852626A1101			1
NS Soft Black	144962	SRL-1-85NS	2CLA852626A1501			1
PL Silver	144948	SRL-1-85PL	2CLA852626A1301			1

ABB-free@home®

VDE



Rocker
1gang, with “Blind” icon
As cover for ABB-free@home® sensor units and sensor/actuator units

Busch-Duro 2000® SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
212 white	180761	SRB-1-212	2CKA006220A0186			1

Reflex SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
214 alpine white	181157	SRB-1-214	2CKA006220A0187			1

future® linear, Busch-axcent®, solo®, pure stainless steel, carat®, Busch-dynasty®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
81 antracite	181522	SRB-1-81	2CKA006220A0143			1
82 ivory white	203477	SRB-1-82	2CKA006220A0518			1
83 aluminium silver	182192	SRB-1-83	2CKA006220A0144			1
84 studio white	181850	SRB-1-84	2CKA006220A0145			1
803 grey metallic	203880	SRB-1-803	2CKA006220A0552			1
840 antique brass	195611	SRB-1-840	2CKA006220A0373			1
866 stainless steel	203712	SRB-1-866	2CKA006220A0535			1
884 studiowhite matt	204368	SRB-1-884	2CKA006220A0603			1
885 black matt	204535	SRB-1-885	2CKA006220A0620			1

basic55®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
92 white	204719	SRB-1-92	2CKA006220A0637			1
93 champagne	204870	SRB-1-93	2CKA006220A0654			1
94 alpine white	205020	SRB-1-94	2CKA006220A0671			1
95 chateau-black	205174	SRB-1-95	2CKA006220A0688			1
96 chalet white	205389	SRB-1-96	2CKA006220A0705			1

Levit®

Color	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
	Type code	Order code			
White	6220H-A01002 03	2CHH621002A4003			1
Grey	6220H-A01002 16	2CHH621002A4016			1
Macchiato	6220H-A01002 18	2CHH621002A4018			1
Anthracite	6220H-A01002 63	2CHH621002A4063			1
Steel	6220H-A01002 69	2CHH621002A4069			1
Silver	6220H-A01002 70	2CHH621002A4070			1

Sky

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
AI Stainless Steel	144993	SRB-1-85AI	2CLA852623A1401			1
BL Soft White	144979	SRB-1-85BL	2CLA852623A1101			1
NS Soft Black	145006	SRB-1-85NS	2CLA852623A1501			1
PL Silver	144986	SRB-1-85PL	2CLA852623A1301			1

ABB-free@home®

VDE



Rocker
1gang, with “Scene” icon
As cover for ABB-free@home® sensor units and sensor/actuator units

Busch-Duro 2000® SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
212 white	180778	SRS-1-212	2CKA006220A0188			1

Reflex SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
214 alpine white	181171	SRS-1-214	2CKA006220A0189			1

future® linear, Busch-axcent®, solo®, pure stainless steel, carat®, Busch-dynasty®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
81 anthracite	181539	SRS-1-81	2CKA006220A0146			1
82 ivory white	203484	SRS-1-82	2CKA006220A0519			1
83 aluminium silver	182215	SRS-1-83	2CKA006220A0147			1
84 studio white	181867	SRS-1-84	2CKA006220A0148			1
803 grey metallic	203897	SRS-1-803	2CKA006220A0553			1
840 antique brass	195628	SRS-1-840	2CKA006220A0374			1
866 stainless steel	203729	SRS-1-866	2CKA006220A0536			1
884 studiowhite matt	204351	SRS-1-884	2CKA006220A0604			1
885 black matt	204542	SRS-1-885	2CKA006220A0621			1

basic55®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
92 white	204726	SRS-1-92	2CKA006220A0638			1
93 champagne	204887	SRS-1-93	2CKA006220A0655			1
94 alpine white	205037	SRS-1-94	2CKA006220A0672			1
95 chateau-black	205181	SRS-1-95	2CKA006220A0689			1
96 chalet white	205396	SRS-1-96	2CKA006220A0706			1

Levit®

Color	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
	Type code	Order code			
White	6220H-A01003 03	2CHH621003A4003			1
Grey	6220H-A01003 16	2CHH621003A4016			1
Macchiato	6220H-A01003 18	2CHH621003A4018			1
Anthracite	6220H-A01003 63	2CHH621003A4063			1
Steel	6220H-A01003 69	2CHH621003A4069			1
Silver	6220H-A01003 70	2CHH621003A4070			1

Sky

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
AI Stainless Steel	145075	SRS-1-85AI	2CLA852627A1401			1
BL Soft White	145051	SRS-1-85BL	2CLA852627A1101			1
NS Soft Black	145082	SRS-1-85NS	2CLA852627A1501			1
PL Silver	145068	SRS-1-85PL	2CLA852627A1301			1

ABB-free@home®

VDE



Rocker
1gang, with “Dimmer” icon
As cover for ABB-free@home® sensor units and sensor/actuator units

Busch-Duro 2000® SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
212 white	180785	SRD-1-212	2CKA006220A0190			1

Reflex SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
214 alpine white	181188	SRD-1-214	2CKA006220A0191			1

future® linear, Busch-axcent®, solo®, pure stainless steel, carat®, Busch-dynasty®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
81 anthracite	181546	SRD-1-81	2CKA006220A0149			1
82 ivory white	203491	SRD-1-82	2CKA006220A0520			1
83 aluminium silver	182222	SRD-1-83	2CKA006220A0150			1
84 studio white	181874	SRD-1-84	2CKA006220A0151			1
803 grey metallic	203910	SRD-1-803	2CKA006220A0554			1
840 antique brass	195635	SRD-1-840	2CKA006220A0375			1
866 stainless steel	203743	SRD-1-866	2CKA006220A0537			1
884 studiowhite matt	204382	SRD-1-884	2CKA006220A0605			1
885 black matt	204559	SRD-1-885	2CKA006220A0622			1

basic55®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
92 white	204733	SRD-1-92	2CKA006220A0639			1
93 champagne	204894	SRD-1-93	2CKA006220A0656			1
94 alpine white	205044	SRD-1-94	2CKA006220A0673			1
95 chateau-black	205198	SRD-1-95	2CKA006220A0690			1
96 chalet white	205402	SRD-1-96	2CKA006220A0707			1

Levit®

Color	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
	Type code	Order code			
White	6220H-A01004 03	2CHH621004A4003			1
Grey	6220H-A01004 16	2CHH621004A4016			1
Macchiato	6220H-A01004 18	2CHH621004A4018			1
Anthracite	6220H-A01004 63	2CHH621004A4063			1
Steel	6220H-A01004 69	2CHH621004A4069			1
Silver	6220H-A01004 70	2CHH621004A4070			1

Sky

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
AI Stainless Steel	145037	SRD-1-85AI	2CLA852625A1401			1
BL Soft White	145013	SRD-1-85BL	2CLA852625A1101			1
NS Soft Black	145044	SRD-1-85NS	2CLA852625A1501			1
PL Silver	145020	SRD-1-85PL	2CLA852625A1301			1

ABB-free@home®

VDE

Rocker
2gang left/right, without printing
As cover for ABB-free@home® sensor units and sensor/actuator units

Busch-Duro 2000® SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
212 white	180792	SR-2-212	2CKA006220A0192			1

Reflex SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
214 alpine white	181195	SR-2-214	2CKA006220A0193			1

future® linear, Busch-axcent®, solo®, pure stainless steel, carat®, Busch-dynasty®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
81 anthracite	181553	SR-2-81	2CKA006220A0152			1
82 ivory white	203507	SR-2-82	2CKA006220A0521			1
83 aluminium silver	182239	SR-2-83	2CKA006220A0153			1
84 studio white	181881	SR-2-84	2CKA006220A0154			1
803 grey metallic	203927	SR-2-803	2CKA006220A0555			1
840 antique brass	195642	SR-2-840	2CKA006220A0376			1
866 stainless steel	203750	SR-2-866	2CKA006220A0538			1
884 studiowhite matt	204399	SR-2-884	2CKA006220A0606			1
885 black matt	204566	SR-2-885	2CKA006220A0623			1

basic55®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
92 white	204740	SR-2-92	2CKA006220A0640			1
93 champagne	204900	SR-2-93	2CKA006220A0657			1
94 alpine white	205051	SR-2-94	2CKA006220A0674			1
95 chateau-black	205204	SR-2-95	2CKA006220A0691			1
96 chalet white	205419	SR-2-96	2CKA006220A0708			1

Levit®

Color	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
	Type code	Order code			
White	6220H-A02000 03	2CHH622000A4003			1
Grey	6220H-A02000 16	2CHH622000A4016			1
Macchiato	6220H-A02000 18	2CHH622000A4018			1
Anthracite	6220H-A02000 63	2CHH622000A4063			1
Steel	6220H-A02000 69	2CHH622000A4069			1
Silver	6220H-A02000 70	2CHH622000A4070			1

Sky

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
AI Stainless Steel	146294	SR-2-85AI	2CLA852640A1401			1
BL Soft White	135229	SR-2-85BL	2CLA852640A1101			1
NS Soft Black	146300	SR-2-85NS	2CLA852640A1501			1
PL Silver	135236	SR-2-85PL	2CLA852640A1301			1

ABB-free@home®

VDE

Rocker
2gang left, with “Light” icon
As cover for ABB-free@home® sensor units and sensor/actuator units

Busch-Duro 2000® SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
212 white	180808	SRL-2-L-212	2CKA006220A0194			1

Reflex SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
214 alpine white	181218	SRL-2-L-214	2CKA006220A0195			1

future® linear, Busch-axcent®, solo®, pure stainless steel, carat®, Busch-dynasty®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
81 anthracite	181560	SRL-2-L-81	2CKA006220A0155			1
82 ivory white	203606	SRL-2-L-82	2CKA006220A0522			1
83 aluminium silver	182246	SRL-2-L-83	2CKA006220A0156			1
84 studio white	181898	SRL-2-L-84	2CKA006220A0157			1
803 grey metallic	203934	SRL-2-L-803	2CKA006220A0556			1
840 antique brass	195659	SRL-2-L-840	2CKA006220A0377			1
866 stainless steel	203767	SRL-2-L-866	2CKA006220A0539			1
884 studiowhite matt	204412	SRL-2-L-884	2CKA006220A0607			1
885 black matt	204573	SRL-2-L-885	2CKA006220A0624			1

basic55®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
92 white	204757	SRL-2-L-92	2CKA006220A0641			1
93 champagne	204917	SRL-2-L-93	2CKA006220A0658			1
94 alpine white	205068	SRL-2-L-94	2CKA006220A0675			1
95 chateau-black	205211	SRL-2-L-95	2CKA006220A0692			1
96 chalet white	205426	SRL-2-L-96	2CKA006220A0709			1

Levit®

Color	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
	Type code	Order code			
White	6220H-A02101 03	2CHH622101A4003			1
Grey	6220H-A02101 16	2CHH622101A4016			1
Macchiato	6220H-A02101 18	2CHH622101A4018			1
Anthracite	6220H-A02101 63	2CHH622101A4063			1
Steel	6220H-A02101 69	2CHH622101A4069			1
Silver	6220H-A02101 70	2CHH622101A4070			1

Sky

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
AI Stainless Steel	145112	SRL-2-L-85AI	2CLA852642A1401			1
BL Soft White	145099	SRL-2-L-85BL	2CLA852642A1101			1
NS Soft Black	145129	SRL-2-L-85NS	2CLA852642A1501			1
PL Silver	145105	SRL-2-L-85PL	2CLA852642A1301			1

ABB-free@home®

VDE



Rocker
2gang left/right, “Blind” icon
As cover for ABB-free@home® sensor units and sensor/actuator units

Busch-Duro 2000® SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
212 white	180815	SRB-2-212	2CKA006220A0196			1

Reflex SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
214 alpine white	181225	SRB-2-214	2CKA006220A0197			1

future® linear, Busch-axcent®, solo®, pure stainless steel, carat®, Busch-dynasty®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
81 anthracite	181577	SRB-2-81	2CKA006220A0158			1
82 ivory white	203613	SRB-2-82	2CKA006220A0523			1
83 aluminium silver	182253	SRB-2-83	2CKA006220A0159			1
84 studio white	181911	SRB-2-84	2CKA006220A0160			1
803 grey metallic	203941	SRB-2-803	2CKA006220A0557			1
840 antique brass	195666	SRB-2-840	2CKA006220A0378			1
866 stainless steel	203774	SRB-2-866	2CKA006220A0540			1
884 studiowhite matt	204429	SRB-2-884	2CKA006220A0608			1
885 black matt	204580	SRB-2-885	2CKA006220A0625			1

basic55®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
92 white	204764	SRB-2-92	2CKA006220A0642			1
93 champagne	204924	SRB-2-93	2CKA006220A0659			1
94 alpine white	205075	SRB-2-94	2CKA006220A0676			1
95 chateau-black	205228	SRB-2-95	2CKA006220A0693			1
96 chalet white	205433	SRB-2-96	2CKA006220A0710			1

Levit®

Color	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
	Type code	Order code			
White	6220H-A02002 03	2CHH622002A4003			1
Grey	6220H-A02002 16	2CHH622002A4016			1
Macchiato	6220H-A02002 18	2CHH622002A4018			1
Anthracite	6220H-A02002 63	2CHH622002A4063			1
Steel	6220H-A02002 69	2CHH622002A4069			1
Silver	6220H-A02002 70	2CHH622002A4070			1

Sky

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
AI Stainless Steel	145556	SRB-2-85AI	2CLA852643A1401			1
BL Soft White	145532	SRB-2-85BL	2CLA852643A1101			1
NS Soft Black	145563	SRB-2-85NS	2CLA852643A1501			1
PL Silver	145549	SRB-2-85PL	2CLA852643A1301			1

ABB-free@home®

VDE



Rocker
2gang left, with “Scene” icon
As cover for ABB-free@home® sensor units and sensor/actuator units

Busch-Duro 2000® SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
212 white	180839	SRS-2-L-212	2CKA006220A0198			1

Reflex SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
214 alpine white	181232	SRS-2-L-214	2CKA006220A0199			1

future® linear, Busch-axcent®, solo®, pure stainless steel, carat®, Busch-dynasty®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
81 anthracite	181584	SRS-2-L-81	2CKA006220A0161			1
82 ivory white	203620	SRS-2-L-82	2CKA006220A0524			1
83 aluminium silver	182260	SRS-2-L-83	2CKA006220A0162			1
84 studio white	181928	SRS-2-L-84	2CKA006220A0163			1
803 grey metallic	203958	SRS-2-L-803	2CKA006220A0558			1
840 antique brass	195673	SRS-2-L-840	2CKA006220A0379			1
866 stainless steel	203781	SRS-2-L-866	2CKA006220A0541			1
884 studiowhite matt	204436	SRS-2-L-884	2CKA006220A0609			1
885 black matt	204597	SRS-2-L-885	2CKA006220A0626			1

basic55®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
92 white	204788	SRS-2-L-92	2CKA006220A0643			1
93 champagne	204931	SRS-2-L-93	2CKA006220A0660			1
94 alpine white	205082	SRS-2-L-94	2CKA006220A0677			1
95 chateau-black	205235	SRS-2-L-95	2CKA006220A0694			1
96 chalet white	205440	SRS-2-L-96	2CKA006220A0711			1

Levit®

Color	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
	Type code	Order code			
White	6220H-A02103 03	2CHH622103A4003			1
Grey	6220H-A02103 16	2CHH622103A4016			1
Macchiato	6220H-A02103 18	2CHH622103A4018			1
Anthracite	6220H-A02103 63	2CHH622103A4063			1
Steel	6220H-A02103 69	2CHH622103A4069			1
Silver	6220H-A02103 70	2CHH622103A4070			1

Sky

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
AI Stainless Steel	145310	SRS-2-L-85AI	2CLA852644A1401			1
BL Soft White	145297	SRS-2-L-85BL	2CLA852644A1101			1
NS Soft Black	145327	SRS-2-L-85NS	2CLA852644A1501			1
PL Silver	145303	SRS-2-L-85PL	2CLA852644A1301			1

ABB-free@home®

VDE



Rocker
2gang left, with “Dimmer” icon
As cover for ABB-free@home® sensor units and sensor/actuator units

Busch-Duro 2000® SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
212 white	180846	SRD-2-L-212	2CKA006220A0200			1

Reflex SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
214 alpine white	181249	SRD-2-L-214	2CKA006220A0201			1

future® linear, Busch-axcent®, solo®, pure stainless steel, carat®, Busch-dynasty®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
81 anthracite	181591	SRD-2-L-81	2CKA006220A0164			1
82 ivory white	203637	SRD-2-L-82	2CKA006220A0525			1
83 aluminium silver	182277	SRD-2-L-83	2CKA006220A0165			1
84 studio white	181935	SRD-2-L-84	2CKA006220A0166			1
803 grey metallic	203965	SRD-2-L-803	2CKA006220A0559			1
840 antique brass	195680	SRD-2-L-840	2CKA006220A0380			1
866 stainless steel	203798	SRD-2-L-866	2CKA006220A0542			1
884 studiowhite matt	204443	SRD-2-L-884	2CKA006220A0610			1
885 black matt	204610	SRD-2-L-885	2CKA006220A0627			1

basic55®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
92 white	204795	SRD-2-L-92	2CKA006220A0644			1
93 champagne	204948	SRD-2-L-93	2CKA006220A0661			1
94 alpine white	205099	SRD-2-L-94	2CKA006220A0678			1
95 chateau-black	205242	SRD-2-L-95	2CKA006220A0695			1
96 chalet white	205457	SRD-2-L-96	2CKA006220A0712			1

Levit®

Color	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
	Type code	Order code			
White	6220H-A02104 03	2CHH622104A4003			1
Grey	6220H-A02104 16	2CHH622104A4016			1
Macchiato	6220H-A02104 18	2CHH622104A4018			1
Anthracite	6220H-A02104 63	2CHH622104A4063			1
Steel	6220H-A02104 69	2CHH622104A4069			1
Silver	6220H-A02104 70	2CHH622104A4070			1

Sky

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
AI Stainless Steel	145235	SRD-2-L-85AI	2CLA852641A1401			1
BL Soft White	145211	SRD-2-L-85BL	2CLA852641A1101			1
NS Soft Black	145242	SRD-2-L-85NS	2CLA852641A1501			1
PL Silver	145228	SRD-2-L-85PL	2CLA852641A1301			1

ABB-free@home®

VDE

Rocker
2gang right, with “Light” icon
As cover for ABB-free@home® sensor units and sensor/actuator units

Busch-Duro 2000® SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
212 white	180853	SRL-2-R-212	2CKA006220A0202			1

Reflex SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
214 alpine white	181263	SRL-2-R-214	2CKA006220A0203			1

future® linear, Busch-axcent®, solo®, pure stainless steel, carat®, Busch-dynasty®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
81 anthracite	181614	SRL-2-R-81	2CKA006220A0167			1
82 ivory white	203651	SRL-2-R-82	2CKA006220A0527			1
83 aluminium silver	182284	SRL-2-R-83	2CKA006220A0168			1
84 studio white	181942	SRL-2-R-84	2CKA006220A0169			1
803 grey metallic	203989	SRL-2-R-803	2CKA006220A0561			1
840 antique brass	195697	SRL-2-R-840	2CKA006220A0381			1
866 stainless steel	203828	SRL-2-R-866	2CKA006220A0544			1
884 studiowhite matt	204467	SRL-2-R-884	2CKA006220A0612			1
885 black matt	204634	SRL-2-R-885	2CKA006220A0629			1

basic55®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
92 white	204818	SRL-2-R-92	2CKA006220A0646			1
93 champagne	204962	SRL-2-R-93	2CKA006220A0663			1
94 alpine white	205112	SRL-2-R-94	2CKA006220A0680			1
95 chateau-black	205266	SRL-2-R-95	2CKA006220A0697			1
96 chalet white	205471	SRL-2-R-96	2CKA006220A0714			1

Levit®

Color	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
	Type code	Order code			
White	6220H-A02101 03	2CHH622101A4003			1
Grey	6220H-A02101 16	2CHH622101A4016			1
Macchiato	6220H-A02101 18	2CHH622101A4018			1
Anthracite	6220H-A02101 63	2CHH622101A4063			1
Steel	6220H-A02101 69	2CHH622101A4069			1
Silver	6220H-A02101 70	2CHH622101A4070			1

Sky

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
AI Stainless Steel	145150	SRL-2-R-85AI	2CLA852648A1401			1
BL Soft White	145136	SRL-2-R-85BL	2CLA852648A1101			1
NS Soft Black	145167	SRL-2-R-85NS	2CLA852648A1501			1
PL Silver	145143	SRL-2-R-85PL	2CLA852648A1301			1

ABB-free@home®

VDE



Rocker
2gang right, with “Scene” icon
As cover for ABB-free@home® sensor units and sensor/actuator units

Busch-Duro 2000® SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
212 white	180884	SRS-2-R-212	2CKA006220A0206			1

Reflex SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
214 alpine white	181287	SRS-2-R-214	2CKA006220A0207			1

future® linear, Busch-axcent®, solo®, pure stainless steel, carat®, Busch-dynasty®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
81 anthracite	181638	SRS-2-R-81	2CKA006220A0173			1
82 ivory white	203668	SRS-2-R-82	2CKA006220A0528			1
83 aluminium silver	182314	SRS-2-R-83	2CKA006220A0174			1
84 studio white	181966	SRS-2-R-84	2CKA006220A0175			1
803 grey metallic	203996	SRS-2-R-803	2CKA006220A0562			1
840 antique brass	195710	SRS-2-R-840	2CKA006220A0382			1
866 stainless steel	203835	SRS-2-R-866	2CKA006220A0545			1
884 studiowhite matt	204474	SRS-2-R-884	2CKA006220A0613			1
885 black matt	204641	SRS-2-R-885	2CKA006220A0630			1

basic55®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
92 white	204825	SRS-2-R-92	2CKA006220A0647			1
93 champagne	204979	SRS-2-R-93	2CKA006220A0664			1
94 alpine white	205129	SRS-2-R-94	2CKA006220A0681			1
95 chateau-black	205273	SRS-2-R-95	2CKA006220A0698			1
96 chalet white	205488	SRS-2-R-96	2CKA006220A0715			1

Levit®

Color	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
	Type code	Order code			
White	6220H-A02203 03	2CHH622203A4003			1
Grey	6220H-A02203 16	2CHH622203A4016			1
Macchiato	6220H-A02203 18	2CHH622203A4018			1
Anthracite	6220H-A02203 63	2CHH622203A4063			1
Steel	6220H-A02203 69	2CHH622203A4069			1
Silver	6220H-A02203 70	2CHH622203A4070			1

Sky

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
AI Stainless Steel	145358	SRS-2-R-85AI	2CLA852649A1401			1
BL Soft White	193595	SRS-2-R-85BL	2CLA852647A1101			1
NS Soft Black	145365	SRS-2-R-85NS	2CLA852649A1501			1
PL Silver	145341	SRS-2-R-85PL	2CLA852649A1301			1

ABB-free@home®

VDE



Rocker
2gang right, with “Dimmer” icon
As cover for ABB-free@home® sensor units and sensor/actuator units

Busch-Duro 2000® SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
212 white	188507	SRD-2-R-212	2CKA006220A0261			1

Reflex SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
214 alpine white	188514	SRD-2-R-214	2CKA006220A0262			1

future® linear, Busch-axcent®, solo®, pure stainless steel, carat®, Busch-dynasty®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
81 anthracite	188477	SRD-2-R-81	2CKA006220A0258			1
82 ivory white	203644	SRD-2-R-82	2CKA006220A0526			1
83 aluminium silver	188484	SRD-2-R-83	2CKA006220A0259			1
84 studio white	188491	SRD-2-R-84	2CKA006220A0260			1
803 grey metallic	203972	SRD-2-R-803	2CKA006220A0560			1
840 antique brass	195727	SRD-2-R-840	2CKA006220A0383			1
866 stainless steel	203811	SRD-2-R-866	2CKA006220A0543			1
884 studiowhite matt	204450	SRD-2-R-884	2CKA006220A0611			1
885 black matt	204627	SRD-2-R-885	2CKA006220A0628			1

basic55®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
92 white	204801	SRD-2-R-92	2CKA006220A0645			1
93 champagne	204955	SRD-2-R-93	2CKA006220A0662			1
94 alpine white	205105	SRD-2-R-94	2CKA006220A0679			1
95 chateau-black	205259	SRD-2-R-95	2CKA006220A0696			1
96 chalet white	205464	SRD-2-R-96	2CKA006220A0713			1

Levit®

Color	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
	Type code	Order code			
White	6220H-A02104 03	2CHH622104A4003			1
Grey	6220H-A02104 16	2CHH622104A4016			1
Macchiato	6220H-A02104 18	2CHH622104A4018			1
Anthracite	6220H-A02104 63	2CHH622104A4063			1
Steel	6220H-A02104 69	2CHH622104A4069			1
Silver	6220H-A02104 70	2CHH622104A4070			1

Sky

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
AI Stainless Steel	145273	SRD-2-R-85AI	2CLA852640A2401			1
BL Soft White	145259	SRD-2-R-85BL	2CLA852640A2101			1
NS Soft Black	145280	SRD-2-R-85NS	2CLA852640A2501			1
PL Silver	145266	SRD-2-R-85PL	2CLA852640A2301			1

ABB-free@home®

VDE



Cover plate
For room thermostat
As cover for ABB-free@home® room temperature controller RTC-F-1.

Busch-Duro 2000® SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
212 white	180914	CP-RTC-212	2CKA006220A0210			1

Reflex SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
214 alpine white	181317	CP-RTC-214	2CKA006220A0211			1

future® linear, Busch-axcent®, solo®, pure stainless steel, carat®, Busch-dynasty®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
81 anthracite	181652	CP-RTC-81	2CKA006220A0179			1
82 ivory white	205693	CP-RTC-82	2CKA006220A0529			1
83 aluminium silver	182345	CP-RTC-83	2CKA006220A0180			1
84 studio white	181980	CP-RTC-84	2CKA006220A0181			1
803 grey metallic	205747	CP-RTC-803	2CKA006220A0563			1
840 antique brass	195734	CP-RTC-840	2CKA006220A0384			1
866 stainless steel	205723	CP-RTC-866	2CKA006220A0546			1
884 studiowhite matt	205815	CP-RTC-884	2CKA006220A0614			1
885 black matt	205839	CP-RTC-885	2CKA006220A0631			1

basic55®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
92 white	205853	CP-RTC-92	2CKA006220A0648			1
93 champagne	205877	CP-RTC-93	2CKA006220A0665			1
94 alpine white	205891	CP-RTC-94	2CKA006220A0682			1
95 chateau-black	205921	CP-RTC-95	2CKA006220A0699			1
96 chalet white	205952	CP-RTC-96	2CKA006220A0716			1

Levit®

Color	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
	Type code	Order code			
White	6220H-A03000 03	2CHH623000A4003			1
Grey	6220H-A03000 16	2CHH623000A4016			1
Macchiato	6220H-A03000 18	2CHH623000A4018			1
Anthracite	6220H-A03000 63	2CHH623000A4063			1
Steel	6220H-A03000 69	2CHH623000A4069			1
Silver	6220H-A03000 70	2CHH623000A4070			1

Sky

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
AI Stainless Steel	145433	CP-RTC-85AI	2CLA854060A1401			1
BL Soft White	145419	CP-RTC-85BL	2CLA854060A1101			1
NS Soft Black	145440	CP-RTC-85NS	2CLA854060A1501			1
PL Silver	145426	CP-RTC-85PL	2CLA854060A1301			1

ABB-free@home®

VDE



Cover plate
For room thermostat
As cover for ABB-free@home® room temperature controller RTC-F-1.

Busch-Duro 2000® SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
212 white	187487	CP-FCC-212	2CKA006220A0245			1

Reflex SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
214 alpine white	187494	CP-FCC-214	2CKA006220A0246			1

future® linear, Busch-axcent®, solo®, pure stainless steel, carat®, Busch-dynasty®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
81 anthracite	187456	CP-FCC-81	2CKA006220A0242			1
82 ivory white	205716	CP-FCC-82	2CKA006220A0532			1
83 aluminium silver	187463	CP-FCC-83	2CKA006220A0243			1
84 studio white	187470	CP-FCC-84	2CKA006220A0244			1
803 grey metallic	205754	CP-FCC-803	2CKA006220A0566			1
866 stainless steel	205730	CP-FCC-866	2CKA006220A0549			1
884 studiowhite matt	205822	CP-FCC-884	2CKA006220A0617			1
885 black matt	205846	CP-FCC-885	2CKA006220A0634			1

basic55®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
92 white	205860	CP-FCC-92	2CKA006220A0651			1
93 champagne	205884	CP-FCC-93	2CKA006220A0668			1
94 alpine white	205914	CP-FCC-94	2CKA006220A0685			1
95 chateau-black	205938	CP-FCC-95	2CKA006220A0702			1
96 chalet white	205969	CP-FCC-96	2CKA006220A0719			1

Sky

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
AI Stainless Steel	145471	CP-RTC-FC-85AI	2CLA855420A1401			1
BL Soft White	145457	CP-RTC-FC-85BL	2CLA855420A1101			1
NS Soft Black	145488	CP-RTC-FC-85NS	2CLA855420A1501			1
PL Silver	145464	CP-RTC-FC-85PL	2CLA855420A1301			1

ABB-free@home®

VDE



Cover plate
For 2 fold left push button with play/pause symbol
As cover for ABB-free@home® sensor units and sensor/actuator units

Sonos

Busch-Duro 2000® SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
212 white	261095	SRA-2-L-212	2CKA006220A0763			1

Reflex SI

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
214 alpine white	257821	SRA-2-L-214	2CKA006220A0765			1

future® linear, Busch-axcent®, solo®, pure stainless steel, carat®, Busch-dynasty®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
81 anthracite	257722	SRA-2-L-81	2CKA006220A0755			1
82 ivory white	257746	SRA-2-L-82	2CKA006220A0757			1
83 aluminium silver	257760	SRA-2-L-83	2CKA006220A0759			1
84 studio white	257784	SRA-2-L-84	2CKA006220A0761			1
803 grey metallic	257845	SRA-2-L-803	2CKA006220A0767			1
840 antique brass	257951	SRA-2-L-840	2CKA006220A0775			1
866 stainless steel	257883	SRA-2-L-866	2CKA006220A0769			1
884 studiowhite matt	261101	SRA-2-L-884	2CKA006220A0771			1
885 black matt	257937	SRA-2-L-885	2CKA006220A0773			1

basic55®

Color	Bbn 4011395 EAN	Order details		Price 1 piece	Weight 1 piece kg	Pack unit pc.
		Type code	Order code			
92 white	257975	SRA-2-L-92	2CKA006220A0777			1
93 champagne	257999	SRA-2-L-93	2CKA006220A0779			1
94 alpine white	258019	SRA-2-L-94	2CKA006220A0781			1
95 chateau-black	258033	SRA-2-L-95	2CKA006220A0783			1
96 chalet white	258057	SRA-2-L-96	2CKA006220A0785			1

ABB-free@home®

VDE



Cover plate
For 2 fold right push button with volume symbol
As cover for ABB-free@home® sensor units and sensor/actuator units

Sonos

Busch-Duro 2000® SI

Color	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
212 white	257814	SRA-2-R-212	2CKA006220A0764			1

Reflex SI

Color	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
214 alpine white	257838	SRA-2-R-214	2CKA006220A0766			1

future® linear, Busch-axcent®, solo®, pure stainless steel, carat®, Busch-dynasty®

Color	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
81 anthracite	257739	SRA-2-R-81	2CKA006220A0756			1
82 ivory white	257753	SRA-2-R-82	2CKA006220A0758			1
83 aluminium silver	257777	SRA-2-R-83	2CKA006220A0760			1
84 studio white	257791	SRA-2-R-84	2CKA006220A0762			1
803 grey metallic	257876	SRA-2-R-803	2CKA006220A0768			1
840 antique brass	257968	SRA-2-R-840	2CKA006220A0776			1
866 stainless steel	257890	SRA-2-R-866	2CKA006220A0770			1
884 studiowhite matt	257920	SRA-2-R-884	2CKA006220A0772			1
885 black matt	257944	SRA-2-R-885	2CKA006220A0774			1

basic55®

Color	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
92 white	257982	SRA-2-R-92	2CKA006220A0778			1
93 champagne	261118	SRA-2-R-93	2CKA006220A0780			1
94 alpine white	258026	SRA-2-R-94	2CKA006220A0782			1
95 chateau-black	258040	SRA-2-R-95	2CKA006220A0784			1
96 chalet white	258064	SRA-2-R-96	2CKA006220A0786			1

ABB-free@home®
Sensor unit



Sensor unit, 1gang [1) 2)]
For transmitting switching, push-button, dimming and blind commands to an ABB-free@home® actuator.
Only to be used in combination with ABB-free@home® 1gang rockers.
The bus can be connected via enclosed terminal block.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Bus voltage: 24 V
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 23 mm
Mounting depth: 9 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	180075	SU-F-1.0.1	2CKA006220A0117			1



Sensor unit, 1gang, wireless [1) 2)]
For transmitting switching, push-button, dimming and blind commands to an ABB-free@home® actuator.
Communication with the free@home system is carried out wireless.
Only to be used in combination with ABB-free@home® 1gang rockers.
The bus can be connected via enclosed terminal block.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Rated voltage: 230 V~
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 45 mm
Mounting depth: 32 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
WIRELESS						
	215616	SU-F-1.0.1-WL	2CKA006200A0072			1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

ABB-free@home®
Sensor unit



Sensor unit, 2gang [1) 2)]
For transmitting switching, push-button, dimming and blind commands to an ABB-free@home® actuator.
Only to be used in combination with ABB-free@home® 2gang rockers.
The bus can be connected via enclosed terminal block.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Bus voltage: 24 V
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 23 mm
Mounting depth: 9 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	180082	SU-F-2.0.1	2CKA006220A0118			1



Sensor unit, 2gang, wireless [1) 2)]
For transmitting switching, push-button, dimming and blind commands to an ABB-free@home® actuator.
Communication with the free@home system is carried out wireless.
Only to be used in combination with ABB-free@home® 2gang rockers.
The bus can be connected via enclosed terminal block.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Rated voltage: 230 V~
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 45 mm
Mounting depth: 32 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
WIRELESS						
	215623	SU-F-2.0.1-WL	2CKA006200A0073			1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

ABB-free@home®

Sensor unit



Room thermostat [1) 2)]

Heating/cooling operation.
Control element with room temperature controller function for controlling commercially available actuating drives in connection with HA-M-0.6.1, HA-M-0.12.1, FCA-M-2.3.1.
With display of set-value temperature.
Only to be used in combination with ABB-free@home® room temperature controller cover plates CP-RTC-xxx.
The bus can be connected via enclosed terminal block.
Control element: Floating rocker for the selection of set values and operating modes
Display elements: LCD showing operation modes
Bus voltage: 24 V
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 30 mm
Mounting depth: 14 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	180099	RTC-F-1	2CKA006220A0122			1



Room thermostat, wireless [1) 2)]

Heating/cooling operation.
Communication with the free@home system is carried out wireless.
Control element with room temperature controller function for controlling commercially available actuating drives in connection with HA-M-0.6.1, HA-M-0.12.1, FCA-M-2.3.1.
With display of set-value temperature.
Only to be used in combination with ABB-free@home® room temperature controller cover plates CP-RTC-xxx.
The bus can be connected via enclosed terminal block.
Control element: Floating rocker for the selection of set values and operating modes
Display elements: LCD showing operation modes
Bus voltage: 230 V~
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 48 mm
Mounting depth: 32 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
WIRELESS						
	215715	RTC-F-1-WL	2CKA006200A0081			1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

ABB-free@home®
Sensor unit



Room temperature controller/heating actuator, wireless [1) 2)]
Heating/cooling operation. Communication with the free@home system is carried out wireless.
Control element with room temperature controller function.
With display of set-value temperature.
With integrated switch actuator, e.g. for controlling thermoelectric actuating drives in heating/cooling systems or electric floor heating systems. RTC function is available also without prior programming (preconfigured).
In connection with temperature sensor DP4-T-1 the integrated room temperature controller can be fitted with a remote sensor.
3 wire connection (neutral conductor required).
Only to be used in combination with ABB-free@home® room temperature controller cover plates CP-RTC-XXX.
With fixing claws.
Control element: Floating rocker for the selection of set values and operating modes
Display elements: LCD showing operation modes
Rated voltage: 230 V~
Rated frequency: 50 Hz - 60 Hz
Outputs: 1x Normally open contact, potential-bound
Supply voltage: 230 V~
Suitable for: ohmic
Rated current: 16 A
Output voltage: 230 V~
Rated power: 3 680 W
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 48 mm
Mounting depth: 32 mm

WIRELESS	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	215722	RTC-F-2.1-1-WL	2CKA006200A0082			1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

ABB-free@home®

Sensor unit



Switch actuator sensor, 1/1gang [1) 2)]
For switching 127 V~/230 V~ consumers.
With integrated switch actuator.
Switching function is available also without prior programming (pre-configured).
Configuration can be changed later via the web interface (groups, scenes, etc.).
Only to be used in combination with ABB-free@home® 1gang rockers.
The bus can be connected via enclosed terminal block.
When installing in the flush-mounted box, a spatial division between the bus cable and 127 V/230 V installation cable is to be adhered to! If this minimum distance is not possible, use electronic boxes or insulating tubes.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Bus voltage: 24 V
Outputs: 1x Normally open contact, potential free
Suitable for: ohmic
Rated current: 10 A
Output voltage: 230 V~
Rated power: 2300 W
Suitable for: capacitive
Rated current: 10 AX
Rated power: 2300 VA
Suitable for: inductive
Rated current: 10 AX
Rated power: 2300 VA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 45 mm
Mounting depth: 32 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	180112	SSA-F-1.1.1	2CKA006220A0123			1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

ABB-free@home®
Sensor unit



Switch actuator sensor, 1/1gang, wireless [1) 2)]
For switching 127 V~/230 V~ consumers.
Communication with the free@home system is carried out wireless.
With integrated switch actuator.
Switching function is available also without prior programming (pre-configured).
Configuration can be changed later via the web interface (groups, scenes, etc.).
Only to be used in combination with ABB-free@home® 1gang rockers.
The bus can be connected via enclosed terminal block.
When installing in the flush-mounted box, a spatial division between the bus cable and 127 V/230 V installation cable is to be adhered to! If this minimum distance is not possible, use electronic boxes or insulating tubes.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Bus voltage: 24 V
Outputs: 1x Normally open contact, potential free
Suitable for: ohmic
Rated current: 10 A
Output voltage: 230 V~
Rated power: 2300 W
Suitable for: capacitive
Rated current: 10 AX
Rated power: 2300 VA
Suitable for: inductive
Rated current: 10 AX
Rated power: 2300 VA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 45 mm
Mounting depth: 32 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
WIRELESS						
	215630	SSA-F-1.1.1-WL	2CKA006200A0074			1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

ABB-free@home®

Sensor unit



Switch actuator sensor, 2/1gang [1) 2)]
For switching 127 V~/230 V~ consumers.
With integrated switch actuator.
Switching function is available also without prior programming (left sensor channel is pre-configured).
Configuration can be changed later via the web interface (groups, scenes, etc.).
The right sensor channel for programming additional functions (groups, scenes, etc.).
Only to be used in combination with ABB-free@home® 2gang rockers.
The bus can be connected via enclosed terminal block.
When installing in the flush-mounted box, a spatial division between the bus cable and 127 V/230 V installation cable is to be adhered to! If this minimum distance is not possible, use electronic boxes or insulating tubes.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Bus voltage: 24 V
Outputs: 1x Normally open contact, potential free
Suitable for: ohmic
Rated current: 10 A
Output voltage: 230 V~
Rated power: 2300 W
Suitable for: capacitive
Rated current: 10 AX
Rated power: 2300 VA
Suitable for: inductive
Rated current: 10 AX
Rated power: 2300 VA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 45 mm
Mounting depth: 32 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	180129	SSA-F-2.1.1	2CKA006220A0124			1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

ABB-free@home®

Sensor unit



Switch actuator sensor, 2/1gang, wireless [1) 2)]
For switching 127 V~/230 V~ consumers.
Communication with the free@home system is carried out wireless.
With integrated switch actuator.
Switching function is available also without prior programming (left sensor channel is pre-configured).
Configuration can be changed later via the web interface (groups, scenes, etc.).
The right sensor channel for programming additional functions (groups, scenes, etc.).
Only to be used in combination with ABB-free@home® 2gang rockers.
The bus can be connected via enclosed terminal block.
When installing in the flush-mounted box, a spatial division between the bus cable and 127 V/230 V installation cable is to be adhered to! If this minimum distance is not possible, use electronic boxes or insulating tubes.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Bus voltage: 24 V
Outputs: 1x Normally open contact, potential free
Suitable for: ohmic
Rated current: 10 A
Output voltage: 230 V~
Rated power: 2300 W
Suitable for: capacitive
Rated current: 10 AX
Rated power: 2300 VA
Suitable for: inductive
Rated current: 10 AX
Rated power: 2300 VA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 45 mm
Mounting depth: 32 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
WIRELESS						
	215647	SSA-F-2.1.1-WL	2CKA006200A0075			1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

ABB-free@home®

Sensor unit



Switch actuator sensor, 2/2gang [1) 2)]
For switching 127 V~/230 V~ consumers.
With integrated 2gang switch actuator.
Switching function is available also without prior programming (both sensor channels are pre-configured). Configuration can be changed later via the web interface (groups, scenes, etc.). Only to be used in combination with ABB-free@home® 2gang rockers.
The bus can be connected via enclosed terminal block.
When installing in the flush-mounted box, a spatial division between the bus cable and 127 V/230 V installation cable is to be adhered to! If this minimum distance is not possible, use electronic boxes or insulating tubes.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Bus voltage: 24 V
Outputs: 2x Normally open contact, potential free
Suitable for: ohmic
Rated current: 5 A
Output voltage: 230 V~
Rated power: 1380 W
Suitable for: capacitive
Rated current: 4 AX
Rated power: 920 VA
Suitable for: inductive
Rated current: 4 AX
Rated power: 920 VA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 45 mm
Mounting depth: 32 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	180136	SSA-F-2.2.1	2CKA006220A0125			1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

ABB-free@home®

Sensor unit



Switch actuator sensor, 2/2gang, wireless [1) 2)]
For switching 127 V~/230 V~ consumers.
Communication with the free@home system is carried out wireless.
With integrated 2gang switch actuator.
Switching function is available also without prior programming (both sensor channels are pre-configured). Configuration can be changed later via the web interface (groups, scenes, etc.). Only to be used in combination with ABB-free@home® 2gang rockers.
The bus can be connected via enclosed terminal block.
When installing in the flush-mounted box, a spatial division between the bus cable and 127 V/230 V installation cable is to be adhered to! If this minimum distance is not possible, use electronic boxes or insulating tubes.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Bus voltage: 24 V
Outputs: 2x Normally open contact, potential free
Suitable for: ohmic
Rated current: 5 A
Output voltage: 230 V~
Rated power: 1380 W
Suitable for: capacitive
Rated current: 4 AX
Rated power: 920 VA
Suitable for: inductive
Rated current: 4 AX
Rated power: 920 VA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 45 mm
Mounting depth: 32 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
WIRELESS						
	215654	SSA-F-2.2.1-WL	2CKA006200A0076			1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

ABB-free@home®

Sensor unit



Dimming actuator sensor, 1/1gang [1) 2) 3)]
For dimming 230 V~ loads.
With integrated universal dimming actuator for controlling LEDs, incandescent lamps, 230 V halogen lamps, low-voltage halogen lamps with conventional or electronic transformers, and dimmable energy-saving halogen lamps.
For dimmable Retrofit-LEDs (LEDi).
Dimming function is available also without prior programming (pre-configured).
Configuration can be changed later via the web interface (groups, scenes, etc.).
Only to be used in combination with ABB-free@home® 1gang rockers.
The bus can be connected via enclosed terminal block.
When installing in the flush-mounted box, a spatial division between the bus cable and 230 V installation cable is to be adhered to! If this minimum distance is not possible, use electronic boxes or insulating tubes.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Bus voltage: 24 V
Outputs: 1x dimming channel
Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformer.
Rated power: 10 - 180 W/VA
Suitable for: LEDi and energy-saving bulbs; typical
Rated power: 2 - 80 W/VA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 45 mm
Mounting depth: 32 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	180143	SDA-F-1.1.1	2CKA006220A0126			1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.
3) The power is supplied by the ABB-Welcome system controller 83300.

ABB-free@home®

Sensor unit



Dimming actuator sensor, 1/1gang, wireless [1) 2) 3)]
For dimming 230 V~ loads.
Communication with the free@home system is carried out wireless.
With integrated universal dimming actuator for controlling LEDs, incandescent lamps, 230 V halogen lamps, low-voltage halogen lamps with conventional or electronic transformers, and dimmable energy-saving halogen lamps.
For dimmable Retrofit-LEDs (LEDi).
Dimming function is available also without prior programming (pre-configured).
Configuration can be changed later via the web interface (groups, scenes, etc.).
Only to be used in combination with ABB-free@home® 1gang rockers.
The bus can be connected via enclosed terminal block.
When installing in the flush-mounted box, a spatial division between the bus cable and 230 V installation cable is to be adhered to! If this minimum distance is not possible, use electronic boxes or insulating tubes.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Bus voltage: 24 V
Outputs: 1x dimming channel
Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformer.
Rated power: 10 - 180 W/VA
Suitable for: LEDi and energy-saving bulbs; typical
Rated power: 2 - 80 W/VA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 45 mm
Mounting depth: 32 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
WIRELESS						
	215661	SDA-F-1.1.1-WL	2CKA006200A0077			1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.
3) The power is supplied by the ABB-Welcome system controller 83300.

ABB-free@home®

Sensor unit



Dimming actuator sensor, 2/1gang [1) 2) 3)]
For dimming 230 V~ loads.
With integrated universal dimming actuator for controlling LEDs, incandescent lamps, 230 V halogen lamps, low-voltage halogen lamps with conventional or electronic transformers, and dimmable energy-saving halogen lamps.
For dimmable Retrofit-LEDs (LEDi).
Dimming function is available also without prior programming (left sensor channel is pre-configured). Configuration can be changed later via the web interface (groups, scenes, etc.).
The right sensor channel for programming additional functions (groups, scenes, etc.).
Only to be used in combination with ABB-free@home® 2gang rockers.
The bus can be connected via enclosed terminal block.
When installing in the flush-mounted box, a spatial division between the bus cable and 230 V installation cable is to be adhered to! If this minimum distance is not possible, use electronic boxes or insulating tubes.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Bus voltage: 24 V
Outputs: 1x dimming channel
Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformer.
Rated power: 10 - 180 W/VA
Suitable for: LEDi and energy-saving bulbs; typical
Rated power: 2 - 80 W/VA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 45 mm
Mounting depth: 32 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	180150	SDA-F-2.1.1	2CKA006220A0127			1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.
3) The power is supplied by the ABB-Welcome system controller 83300.

ABB-free@home®

Sensor unit



Dimming actuator sensor, 2/1gang, wireless [1) 2) 3)]
For dimming 230 V~ loads.
Communication with the free@home system is carried out wireless.
With integrated universal dimming actuator for controlling LEDs, incandescent lamps, 230 V halogen lamps, low-voltage halogen lamps with conventional or electronic transformers, and dimmable energy-saving halogen lamps.
For dimmable Retrofit-LEDs (LEDi).
Dimming function is available also without prior programming (left sensor channel is pre-configured). Configuration can be changed later via the web interface (groups, scenes, etc.).
The right sensor channel for programming additional functions (groups, scenes, etc.).
Only to be used in combination with ABB-free@home® 2gang rockers.
The bus can be connected via enclosed terminal block.
When installing in the flush-mounted box, a spatial division between the bus cable and 230 V installation cable is to be adhered to! If this minimum distance is not possible, use electronic boxes or insulating tubes.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Bus voltage: 24 V
Outputs: 1x dimming channel
Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers or electronic transformer.
Rated power: 10 - 180 W/VA
Suitable for: LEDi and energy-saving bulbs; typical
Rated power: 2 - 80 W/VA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 45 mm
Mounting depth: 32 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
WIRELESS						
	215678	SDA-F-2.1.1-WL	2CKA006200A0078			1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.
3) The power is supplied by the ABB-Welcome system controller 83300.

ABB-free@home®

Sensor unit



Blind actuator sensor, 1/1gang [1) 2)]
For controlling blind or awning motors.
With integrated blind actuator.
Blind function is available also without prior programming (pre-configured).
Configuration can be changed later via the web interface (groups, scenes, etc.).
Only to be used in combination with ABB-free@home® 1gang rockers.
The bus can be connected via enclosed terminal block.
When installing in the flush-mounted box, a spatial division between the bus cable and 127 V/230 V installation cable is to be adhered to! If this minimum distance is not possible, use electronic boxes or insulating tubes.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Bus voltage: 24 V
Outputs: 1x Change-over contacts/normally open contact, potential-bound
Suitable for: Operation mode Blind
Rated current: 4 A
Output voltage: 230 V~
Rated power: 920 VA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 45 mm
Mounting depth: 32 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	180167	SBA-F-1.1.1	2CKA006220A0128			1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

ABB-free@home®
Sensor unit



Blind actuator sensor, 1/1gang, wireless [1) 2)]
For controlling blind or awning motors.
Communication with the free@home system is carried out wireless.
With integrated blind actuator.
Blind function is available also without prior programming (pre-configured).
Configuration can be changed later via the web interface (groups, scenes, etc.).
Only to be used in combination with ABB-free@home® 1gang rockers.
The bus can be connected via enclosed terminal block.
When installing in the flush-mounted box, a spatial division between the bus cable and 127 V/230 V installation cable is to be adhered to! If this minimum distance is not possible, use electronic boxes or insulating tubes.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Bus voltage: 24 V
Outputs: 1x Change-over contacts/normally open contact, potential-bound
Suitable for: Operation mode Blind
Rated current: 4 A
Output voltage: 230 V~
Rated power: 920 VA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 45 mm
Mounting depth: 32 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
WIRELESS						
	215685	SBA-F-1.1.1-WL	2CKA006200A0079			1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

ABB-free@home®

Sensor unit



Blind actuator sensor, 2/1gang [1) 2)]
For controlling blind or awning motors.
With integrated blind actuator.
Blind function is available also without prior programming (left sensor channel is pre-configured). Configuration can be changed later via the web interface (groups, scenes, etc.).
The right sensor channel for programming additional functions (groups, scenes, etc.).
Only to be used in combination with ABB-free@home® 2gang rockers.
The bus can be connected via enclosed terminal block.
When installing in the flush-mounted box, a spatial division between the bus cable and 127 V/230 V installation cable is to be adhered to! If this minimum distance is not possible, use electronic boxes or insulating tubes.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Bus voltage: 24 V
Outputs: 1x Change-over contacts/normally open contact, potential-bound
Suitable for: Operation mode Blind
Rated current: 4 A
Output voltage: 230 V~
Rated power: 920 VA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 45 mm
Mounting depth: 32 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	180174	SBA-F-2.1.1	2CKA006220A0129			1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

ABB-free@home®

Sensor unit



Blind actuator sensor, 2/1gang, wireless [1) 2)]
For controlling blind or awning motors.
Communication with the free@home system is carried out wireless.
With integrated blind actuator.
Blind function is available also without prior programming (left sensor channel is pre-configured). Configuration can be changed later via the web interface (groups, scenes, etc.).
The right sensor channel for programming additional functions (groups, scenes, etc.).
Only to be used in combination with ABB-free@home® 2gang rockers.
The bus can be connected via enclosed terminal block.
When installing in the flush-mounted box, a spatial division between the bus cable and 127 V/230 V installation cable is to be adhered to! If this minimum distance is not possible, use electronic boxes or insulating tubes.
Control element: Switch contacts top/bottom
Display elements: LED as light for orientation or display of the switching state
Bus voltage: 24 V
Outputs: 1x Change-over contacts/normally open contact, potential-bound
Suitable for: Operation mode Blind
Rated current: 4 A
Output voltage: 230 V~
Rated power: 920 VA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 45 mm
Mounting depth: 32 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
WIRELESS						
	215692	SBA-F-2.1.1-WL	2CKA006200A0080			1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

ABB-free@home®

Sensor unit



Movement detector/switch actuator, 1gang [1) 2)]
With select lens for detection with animal access.
For automatic switching of ABB-free@home® actuators dependent on movement and brightness. Switch-off delay of the actuator can be programmed via the web interface of the System Access Point. For switching 127 V~/230 V~ consumers. With integrated switch actuator. Switching function is available also without prior programming (pre-configured). Configuration can be changed later via the web interface (groups, scenes, etc.).
The bus can be connected via enclosed terminal block. When installing in the flush-mounted box, a spatial division between the bus cable and 127 V/230 V installation cable is to be adhered to! If this minimum distance is not possible, use electronic boxes or insulating tubes.
Bus voltage: 24 V
Outputs: 1x Normally open contact, potential free
Suitable for: ohmic
Rated current: 10 A
Output voltage: 230 V~
Rated power: 2300 W
Suitable for: capacitive
Rated current: 10 AX
Rated power: 2300 VA
Suitable for: inductive
Rated current: 10 AX
Rated power: 2300 VA
Detection range: frontal: 6 m, lateral: 3 m
Detection angle: 180 °
Brightness limit value: 1 Lux - 500 Lux
Mounting height: 1.1 m - 1.3 m
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 53 mm
Mounting depth: 32 mm
Position for installation: vertical

Busch-Duro 2000® SI

Color	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
212 white	179765	MSA-F-1.1.1-212	2CKA006220A0220			1

Reflex SI

Color	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
214 alpine white	179802	MSA-F-1.1.1-214	2CKA006220A0221			1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

ABB-free@home®
Sensor unit

future® linear, Busch-axcent®, solo®, pure stainless steel, carat®, Busch-dynasty®

Color	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
81 anthracite	179840	MSA-F-1.1.1-81	2CKA006220A0215			1
82 ivory white	203682	MSA-F-1.1.1-82	2CKA006220A0531			1
83 aluminium silver	179949	MSA-F-1.1.1-83	2CKA006220A0216			1
84 studio white	179895	MSA-F-1.1.1-84	2CKA006220A0217			1
803 grey metallic	204016	MSA-F-1.1.1-803	2CKA006220A0565			1
840 antique brass	195758	MSA-F-1.1.1-840	2CKA006220A0386			1
866 stainless steel	203859	MSA-F-1.1.1-866	2CKA006220A0548			1
884 studiowhite matt	204498	MSA-F-1.1.1-884	2CKA006220A0616			1
885 black matt	204665	MSA-F-1.1.1-885	2CKA006220A0633			1
896 chalet white	204320	MSA-F-1.1.1-896	2CKA006220A0599			1

basic55®

Color	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
92 white	204849	MSA-F-1.1.1-92	2CKA006220A0650			1
93 champagne	204993	MSA-F-1.1.1-93	2CKA006220A0667			1
94 alpine white	205143	MSA-F-1.1.1-94	2CKA006220A0684			1
95 chateau-black	205297	MSA-F-1.1.1-95	2CKA006220A0701			1
96 chalet white	205501	MSA-F-1.1.1-96	2CKA006220A0718			1

Levit®

Color	Order details		Price 1 piece	Weight 1 piece	Pack unit
	Type code	Order code		kg	pc.
White	6220H-A04000 03	2CHH624000A4003			1
Grey	6220H-A04000 16	2CHH624000A4016			1
Macchiato	6220H-A04000 18	2CHH624000A4018			1
Anthracite	6220H-A04000 63	2CHH624000A4063			1
Steel	6220H-A04000 69	2CHH624000A4069			1
Silver	6220H-A04000 70	2CHH624000A4070			1

Sky

Color	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
AI Stainless Steel	145396	CP-MD-85AI	2CLA854150A1401			1
BL Soft White	145372	CP-MD-85BL	2CLA854150A1101			1
NS Soft Black	145402	CP-MD-85NS	2CLA854150A1501			1
PL Silver	145389	CP-MD-85PL	2CLA854150A1301			1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.

ABB-free@home®

Sensor unit



Movement detector/switch actuator, 1gang, wireless [1) 2)]
With select lens for detection with animal access.
Communication with the free@home system is carried out wireless.
For automatic switching of ABB-free@home® actuators dependent on movement and brightness. Switch-off delay of the actuator can be programmed via the web interface of the System Access Point. For switching 127 V~/230 V~ consumers. With integrated switch actuator. Switching function is available also without prior programming (pre-configured). Configuration can be changed later via the web interface (groups, scenes, etc.).
The bus can be connected via enclosed terminal block. When installing in the flush-mounted box, a spatial division between the bus cable and 127 V/230 V installation cable is to be adhered to! If this minimum distance is not possible, use electronic boxes or insulating tubes.
Bus voltage: 24 V
Outputs: 1x Normally open contact, potential free
Suitable for: ohmic
Rated current: 10 A
Output voltage: 230 V~
Rated power: 2300 W
Suitable for: capacitive
Rated current: 10 AX
Rated power: 2300 VA
Suitable for: inductive
Rated current: 10 AX
Rated power: 2300 VA
Detection range: frontal: 6 m, lateral: 3 m
Detection angle: 180 °
Brightness limit value: 1 Lux - 500 Lux
Mounting height: 1.1 m - 1.3 m
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 53 mm
Mounting depth: 32 mm
Position for installation: vertical

Busch-Duro 2000® SI

Color	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
WIRELESS						
212 white	215821	MSA-F-1.1.1-212-WL	2CKA006200A0092			1

Reflex SI

Color	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
WIRELESS						
214 alpine white	215838	MSA-F-1.1.1-214-WL	2CKA006200A0093			1

ABB-free@home®
Sensor unit

future® linear, Busch-axcent®, solo®, pure stainless steel, carat®, Busch-dynasty®, wireless

Color	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
WIRELESS						
81 anthracite	215739	MSA-F-1.1.1-81-WL	2CKA006200A0083			1
82 ivory white	215746	MSA-F-1.1.1-82-WL	2CKA006200A0084			1
83 aluminium silver	215753	MSA-F-1.1.1-83-WL	2CKA006200A0085			1
84 studio white	215760	MSA-F-1.1.1-84-WL	2CKA006200A0086			1
803 grey metallic	215845	MSA-F-1.1.1-803-WL	2CKA006200A0094			1
866 stainless steel	215869	MSA-F-1.1.1-866-WL	2CKA006200A0096			1
884 studiowhite matt	215876	MSA-F-1.1.1-884-WL	2CKA006200A0097			1
885 black matt	215883	MSA-F-1.1.1-885-WL	2CKA006200A0098			1

basic55®

Color	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
WIRELESS						
92 white	215777	MSA-F-1.1.1-92-WL	2CKA006200A0087			1
93 champagne	215784	MSA-F-1.1.1-93-WL	2CKA006200A0088			1
94 alpine white	215791	MSA-F-1.1.1-94-WL	2CKA006200A0089			1
95 chateau-black	215807	MSA-F-1.1.1-95-WL	2CKA006200A0090			1
96 chalet white	215814	MSA-F-1.1.1-96-WL	2CKA006200A0091			1

Levit®

Color	Order details		Price 1 piece	Weight 1 piece	Pack unit
	Type code	Order code		kg	pc.
White	6220H-A04100 03	2CHH624100A4003			1
Grey	6220H-A04100 16	2CHH624100A4016			1
Macchiato	6220H-A04100 18	2CHH624100A4018			1
Anthracite	6220H-A04100 63	2CHH624100A4063			1
Steel	6220H-A04100 69	2CHH624100A4069			1
Silver	6220H-A04100 70	2CHH624100A4070			1

ABB-free@home®

Zenit

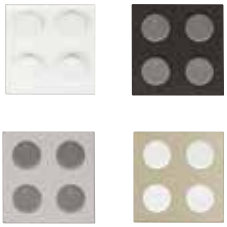


Cover plate for 2 fold push buttons incl neutral symbols
Cover for ABB-free@home® 1/2 gang switches:
SSA-F-1.1.PB.1, SDA-F-1.1.PB.1, SBA-F-1.1.PB.1 and SU-F-1.0.PB.1
Dimensions (H × W): 44 mm x 44 mm

	Bbn 8427238	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
white	113401	SR-2-N2BL	2CLA222620N1102			1
anthracite	113425	SR-2-N2AN	2CLA222620N1802			1
silver	113418	SR-2-N2PL	2CLA222620N1302			1
champagne	113906	SR-2-N2CV	2CLA222620N1902			1

Available with the following interchangeable icons (blind, light, dimmer, scene)

SBB-N2BL	2CLA202620N1102	
SBB-N2GR	2CLA202620N1402	
SBD-N2BL	2CLA202640N1102	
SBD-N2GR	2CLA202640N1402	
SBL-N2BL	2CLA202610N1102	
SBL-N2GR	2CLA202610N1402	
SBS-N2BL	2CLA202630N1102	
SBS-N2GR	2CLA202630N1402	



Cover plate for 4 fold push buttons incl neutral symbols
Cover for ABB-free@home® 2/4 gang switches:
SSA-F-2.1.PB.1, SSA-F-2.2.PB.1, SDA-F-2.1.PB.1, SBA-F-2.1.PB.1 and SU-F-2.0.PB.1
Dimensions (H × W): 44 mm x 44 mm

	Bbn 8427238	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
white	113432	SR-4-N2BL	2CLA222640N1102			1
anthracite	113456	SR-4-N2AN	2CLA222640N1802			1
silver	113449	SR-4-N2PL	2CLA222640N1302			1
champagne	113913	SR-4-N2CV	2CLA222640N1902			1

Available with the following interchangeable icons (blind, light, dimmer, scene)

SBB-N2BL	2CLA202620N1102	
SBB-N2GR	2CLA202620N1402	
SBD-N2BL	2CLA202640N1102	
SBD-N2GR	2CLA202640N1402	
SBL-N2BL	2CLA202610N1102	
SBL-N2GR	2CLA202610N1402	
SBS-N2BL	2CLA202630N1102	
SBS-N2GR	2CLA202630N1402	

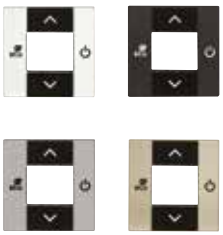
Color legend:
AN = anthracite, BL = white, PL = silver, CV = champagne, GR = grey
WG = Wengue wood, PZ = Stone slate, CB = White glass, CN = Black glass, OX = Aluminium (Inox AISI304)

ABB-free@home®
Zenit



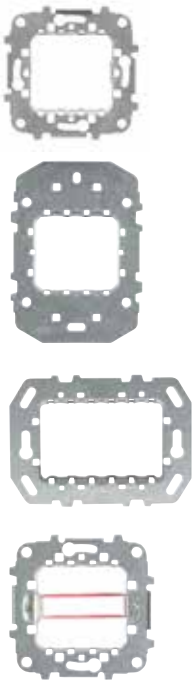
Cover plate for movement detector
Cover for ABB-free@home® movement detector: MSA-F-1.1.1 and MD-F-1.0.PB.1
Dimensions (H × W): 44 mm x 44 mm

	Bbn 8427238	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
white	113463	CP-MD-N2BL	2CL0N224161ABB			1
anthracite	113487	CP-MD-N2AN	2CL0N224168ABB			1
silver	113470	CP-MD-N2PL	2CL0N224163ABB			1
champagne	113920	CP-MD-N2CV	2CL0N224169ABB			1



Cover plate for room temperature controller
Cover for ABB-free@home® room temperature controller: RTC-F-1.PB
Dimensions (H × W): 44 mm x 44 mm

	Bbn 8427238	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
white	113494	CP-RTC-N2BL	2CL0N224061ABB			1
anthracite	113517	CP-RTC-N2AN	2CL0N224068ABB			1
silver	113500	CP-RTC-N2PL	2CL0N224063ABB			1
champagne	113937	CP-RTC-N2CV	2CL0N224069ABB			1



Metal mounting frame
Metal mounting frame for flush mounted units.
Metal mounting frame with clamps for flush mounted units of Zenit VDE range.
Dimensions (H × W): 102 mm x 74 mm, 74 mm x 102 mm

	Bbn	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
square		N2271.9	2CLA227190N1001			1
vertical		N2371.9 V	2CLA237190N1002			1
horizontal		N2373.9	2CLA237390N1002			1
square with clamps		N2271.9G	2CLA227190N1101			

ABB-free@home®

Millenium



Cover plate for 2 fold push buttons incl neutral symbols

Cover for ABB-free@home® 1/2 gang switches: SSA-F-1.1.PB.1, SDA-F-1.1.PB.1, SBA-F-1.1.PB.1 and SU-F-1.0.PB.1

Available in the following colors: anthracite

Dimensions (H × W): 44 mm x 44 mm

	Bbn 8427238	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
anthracite	115849	SR-2-AMAN	2CLA622620N1801			1

Available with the following interchangeable icons (blind, light, dimmer, scene)

SBB-AMAN	2CLA602620N1801	SBL-AMAN	2CLA602610N1801
SBD-AMAN	2CLA602640N1801	SBS-AMAN	2CLA602630N1801



Cover plate for 4 fold push buttons incl neutral symbols

Cover for ABB-free@home® 2/4 gang switches: SSA-F-2.1.PB.1, SSA-F-2.2.PB.1, SDA-F-2.1.PB.1, SBA-F-2.1.PB.1 and SU-F-2.0.PB.1

Available in the following colors: anthracite

Dimensions (H × W): 44 mm x 44 mm

	Bbn 8427238	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
anthracite	115856	SR-4-AMAN	2CLA622640N1801			1

Available with the following interchangeable icons (blind, light, dimmer, scene)

SBB-AMAN	2CLA602620N1801	SBL-AMAN	2CLA602610N1801
SBD-AMAN	2CLA602640N1801	SBS-AMAN	2CLA602630N1801

Color legend:
AN = anthracite, BL = white, PL = silver, CV = champagne, GR = grey
WG = Wengue wood, PZ = Stone slate, CB = White glass, CN = Black glass, OX = Aluminium (Inox AISI304)

ABB-free@home®

Millenium



Cover plate for movement detector
Cover for ABB-free@home® movement detector: MSA-F-1.1.1 and MD-F-1.0.PB.1
Available in the following colors: anthracite
Dimensions (H × W): 44 mm x 44 mm

	Bbn 8427238	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	115863	CP-MD-AMAN	2CLA624160N1801			1



Cover plate for room temperature controller
Cover for ABB-free@home® room temperature controller: RTC-F-1.PB
Available in the following colors: anthracite
Dimensions (H × W): 44 mm x 44 mm

	Bbn 8427238	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	115887	CP-RTC-AMAN	2CLA624060N1801			1

Color legend:
AN = anthracite, BL = white, PL = silver, CV = champagne, GR = grey
WG = Wengue wood, PZ = Stone slate, CB = White glass, CN = Black glass, OX = Aluminium (Inox AISI304)

ABB-free@home®

Zenit/Millenium



Sensor/Switch actuator 1/1gang

For switching 230 V~ devices. With integrated actuator. Switching function is available pre-configured. To be used with ABB-free@home® Zenit cover plates for 2 fold push buttons.
Outputs: 1× normally open contact, potential free
Suitable for: resistive
Rated current: 10 A
Rated power: 2300 W
Suitable for: capacitive
Rated current: 10 AX
Protection class of device: IP 20
Mounting depth: 31.5 mm
Dimensions (H × W × D): 44 mm x 44 mm x 40.9 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	187357	SSA-F-1.1.PB.1	2CKA006220A0232			1



Sensor/Switch actuator 1/1gang, wireless

For switching 230 V~ devices. With integrated actuator. Switching function is available pre-configured. To be used with ABB-free@home® Zenit cover plates for 2 fold push buttons.
Outputs: 1× normally open contact, potential free
Suitable for: resistive
Rated current: 10 A
Rated power: 2300 W
Suitable for: capacitive
Rated current: 10 AX
Protection class of device: IP 20
Mounting depth: 31.5 mm
Dimensions (H × W × D): 44 mm x 44 mm x 40.9 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
WIRELESS						
	215975	SSA-F-1.1.PB.1-WL	2CKA006200A0108			1

ABB-free@home®
Zenit/Millenium



Switch/actuator, 2/4gang + 1 actuator
For switching 230 V~ devices. With integrated actuator. Switching function is available pre-configured. To be used with ABB-free@home® Zenit cover plates for 4 fold push buttons.
Outputs: 1× normally open contact, potential free
Suitable for: resistive
Rated current: 10 A
Rated power: 2300 W
Suitable for: capacitive
Rated current: 10 AX
Protection class of device: IP 20
Mounting depth: 31.5 mm
Dimensions (H × W × D): 44 mm x 44 mm x 40.9 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	187364	SSA-F-2.1.PB.1	2CKA006220A0267			1



Switch/actuator, 2/4gang + 1 actuator, wireless
For switching 230 V~ devices. With integrated actuator. Switching function is available pre-configured. To be used with ABB-free@home® Zenit cover plates for 4 fold push buttons.
Outputs: 1× normally open contact, potential free
Suitable for: resistive
Rated current: 10 A
Rated power: 2300 W
Suitable for: capacitive
Rated current: 10 AX
Protection class of device: IP 20
Mounting depth: 31.5 mm
Dimensions (H × W × D): 44 mm x 44 mm x 40.9 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
WIRELESS						
	215982	SSA-F-2.1.PB.1-WL	2CKA006200A0109			1

ABB-free@home®

Zenit/Millenium



Switch/actuator, 2/4gang + 2 actuator
For switching 230 V~ devices. With integrated actuator. Switching function is available pre-configured. To be used with ABB-free@home® Zenit cover plates for 4 fold push buttons.
Outputs: 2× normally open contact, potential free
Suitable for: resistive
Rated current: 10 A
Rated power: 2 x 1200 W
Suitable for: capacitive
Rated current: 10 AX
Protection class of device: IP 20
Mounting depth: 31.5 mm
Dimensions (H × W × D): 44 mm x 44 mm x 40.9 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	187371	SSA-F-2.2.PB.1	2CKA006220A0234			1



Switch/actuator, 2/4gang + 2 actuator, wireless
For switching 230 V~ devices. With integrated actuator. Switching function is available pre-configured. To be used with ABB-free@home® Zenit cover plates for 4 fold push buttons.
Outputs: 2× normally open contact, potential free
Suitable for: resistive
Rated current: 10 A
Rated power: 2 x 1200 W
Suitable for: capacitive
Rated current: 10 AX
Protection class of device: IP 20
Mounting depth: 31.5 mm
Dimensions (H × W × D): 44 mm x 44 mm x 40.9 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
WIRELESS						
	215999	SSA-F-2.2.PB.1-WL	2CKA006200A0110			1

ABB-free@home®
Zenit/Millenium



Switch/dimmer, 1/2gang + 1 dimmer
For dimming 230 V~ loads. With integrated universal dimming actuator
for controlling different lamps. The dimming function is available pre-configured.
To be used with ABB-free@home® Zenit cover plates for 2 fold push buttons.
Outputs: 1× dimming channel
Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers
or electronic transformers
Rated power: 10–180 W/VA
Suitable for: LEDi and energy-saving bulbs
Rated power: 2–80 W/VA
Protection class of device: IP 20
Mounting depth: 31.5 mm
Dimensions (H × W × D): 44 mm x 44 mm x 40.9 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	187388	SDA-F-1.1.PB.1	2CKA006220A0235			1



Switch/dimmer, 1/2gang + 1 dimmer, wireless
For dimming 230 V~ loads. With integrated universal dimming actuator
for controlling different lamps. The dimming function is available pre-configured.
To be used with ABB-free@home® Zenit cover plates for 2 fold push buttons.
Outputs: 1× dimming channel
Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers
or electronic transformers
Rated power: 10–180 W/VA
Suitable for: LEDi and energy-saving bulbs
Rated power: 2–80 W/VA
Protection class of device: IP 20
Mounting depth: 31.5 mm
Dimensions (H × W × D): 44 mm x 44 mm x 40.9 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
WIRELESS						
	216002	SDA-F-1.1.PB.1-WL	2CKA006200A0111			1

ABB-free@home®

Zenit/Millenium



Switch/dimmer, 2/4gang + 1 dimmer
For dimming 230 V~ loads. With integrated universal dimming actuator for controlling different lamps. The dimming function is available pre-configured. To be used with ABB-free@home® Zenit cover plates for 4 fold push buttons.
Outputs: 1× dimming channel
Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers
or electronic transformers
Rated power: 10–180 W/VA
Suitable for: LEDi and energy-saving bulbs
Rated power: 2–80 W/VA
Protection class of device: IP 20
Mounting depth: 31.5 mm
Dimensions (H × W × D): 44 mm x 44 mm x 40.9 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	187395	SDA-F-2.1.PB.1	2CKA006220A0236			1



Switch/dimmer, 2/4gang + 1 dimmer, wireless
For dimming 230 V~ loads. With integrated universal dimming actuator for controlling different lamps. The dimming function is available pre-configured. To be used with ABB-free@home® Zenit cover plates for 4 fold push buttons.
Outputs: 1× dimming channel
Suitable for: 230 V incandescent lamps and low-voltage halogen lamps with conventional transformers
or electronic transformers
Rated power: 10–180 W/VA
Suitable for: LEDi and energy-saving bulbs
Rated power: 2–80 W/VA
Protection class of device: IP 20
Mounting depth: 31.5 mm
Dimensions (H × W × D): 44 mm x 44 mm x 40.9 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
WIRELESS						
	216019	SDA-F-2.1.PB.1-WL	2CKA006200A0112			1

ABB-free@home®
Zenit/Millenium



Switch/blind actuator, 1/2gang + 1 blind actuator
For controlling blind and awning motors. With integrated blind actuator. Blind function is available pre-configured. To be used in combination with ABB-free@home® Zenit cover plates for 2 fold push buttons.
Outputs: 1× Change-over contacts/normally open contact, potential bound
Rated power: 920 VA
Rated current: 4 A
Suitable for: Operating mode blind
Protection class of device: IP 20
Mounting depth: 31.5 mm
Dimensions (H × W × D): 44 mm x 44 mm x 40.9 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	187401	SBA-F-1.1.PB.1	2CKA006220A0237			1



Switch/blind actuator, 1/2gang + 1 blind actuator, wireless
For controlling blind and awning motors. With integrated blind actuator. Blind function is available pre-configured. To be used in combination with ABB-free@home® Zenit cover plates for 2 fold push buttons.
Outputs: 1× Change-over contacts/normally open contact, potential bound
Rated power: 920 VA
Rated current: 4 A
Suitable for: Operating mode blind
Protection class of device: IP 20
Mounting depth: 31.5 mm
Dimensions (H × W × D): 44 mm x 44 mm x 40.9 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
WIRELESS						
	216026	SBA-F-1.1.PB.1-WL	2CKA006200A0113			1

ABB-free@home®
Zenit/Millenium



Switch/blind actuator, 2/4gang + 1 blind actuator
For controlling blind and awning motors. With integrated blind actuator. Blind function is available pre-configured. To be used with ABB-free@home® Zenit cover plates for 4 fold push buttons.
Outputs: 1× Change-over contacts/normally open contact, potential-bound
Rated power: 920 VA
Rated current: 4 A
Suitable for: Operating mode blind
Protection class of device: IP 20
Mounting depth: 31.5 mm
Dimensions (H × W × D): 44 mm x 44 mm x 40.9 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	187418	SBA-F-2.1.PB.1	2CKA006220A0238			1



Switch/blind actuator, 2/4gang + 1 blind actuator, wireless
For controlling blind and awning motors. With integrated blind actuator. Blind function is available pre-configured. To be used with ABB-free@home® Zenit cover plates for 4 fold push buttons.
Outputs: 1× Change-over contacts/normally open contact, potential-bound
Rated power: 920 VA
Rated current: 4 A
Suitable for: Operating mode blind
Protection class of device: IP 20
Mounting depth: 31.5 mm
Dimensions (H × W × D): 44 mm x 44 mm x 40.9 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
WIRELESS						
	216033	SBA-F-2.1.PB.1-WL	2CKA006200A0114			1

ABB-free@home®
Zenit/Millenium



Room temperature controller
Room temperature control function for controlling commercially available valve drives or analogue valve drives (continuous controllers) in connection with HA-M-0.6.1, HA-M-0.12.1, FCA-M-2.3.1. With display of set-value temperature. To be used with ABB-free@home® Zenit cover plates for room temperature controller.
Display elements: LCD Display showing operation modes
Protection class of device: IP 20
Mounting depth: 17.9 mm
Dimensions (H × W × D): 44 mm x 44 mm x 29.4 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	188743	RTC-F-1.PB	2CKA006220A0276			1



Room temperature controller, wireless
Room temperature control function for controlling commercially available valve drives or analogue valve drives (continuous controllers) in connection with HA-M-0.6.1, HA-M-0.12.1, FCA-M-2.3.1. With display of set-value temperature. To be used with ABB-free@home® Zenit cover plates for room temperature controller.
Display elements: LCD Display showing operation modes
Protection class of device: IP 20
Mounting depth: 17.9 mm
Dimensions (H × W × D): 44 mm x 44 mm x 29.4 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
WIRELESS						
	216040	RTC-F-1.PB-WL	2CKA006200A0115			1

ABB-free@home®
Zenit/Millenium



Room temperature controller/heating actuator, wireless [1) 2)]
For ABB-free@home®
Heating/cooling operation.
Control element with room temperature controller function.
With display of set-value temperature.
With integrated switch actuator, e.g. for controlling thermoelectric actuating drives in heating/cooling systems or electric floor heating systems.
RTC function is available also without prior programming (preconfigured).
In connection with temperature sensor DP4-T-1 the integrated room temperature controller can be fitted with a remote sensor.
3 wire connection (neutral conductor required).
Only to be used in combination with ABB-free@home® room temperature controller cover plates CP-RTC-XXX. With fixing claws.
Control element: Floating rocker for the selection of set values and operating modes
Display elements: LCD showing operation modes
Rated voltage: 230 V~
Rated frequency: 50 Hz - 60 Hz
Outputs: 1x Normally open contact, potential-bound
Supply voltage: 230 V~
Suitable for: ohmic
Rated current: 16 A
Output voltage: 230 V~
Rated power: 3680 W
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 71 mm x 71 mm x 48 mm
Mounting depth: 32 mm

WIRELESS	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	216057	RTC-F-2.1-1.PB-WL	2CKA006200A0116			1

1) Programming only with bus voltage applied via the web interface of the System Access Point.
2) Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current e-catalogue.



Switch 1/2gang
For sending switching, dimming and blind command to an ABB-free@home® actuator.
To be used with ABB-free@home® Zenit cover plates for 2 fold push buttons.
Control element: Switch contacts top/bottom
Display elements: LED for orientation or switch state display
Protection class of device: IP 20
Mounting depth: 14.1 mm
Dimensions (H × W × D): 44 mm x 44 mm x 23.5 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	187258	SU-F-1.0.PB.1	2CKA006220A0222			1

ABB-free@home®
Zenit/Millenium



Switch 1/2gang, wireless
For sending switching, dimming and blind command to an ABB-free@home® actuator.
To be used with ABB-free@home® Zenit cover plates for 2 fold push buttons.
Control element: Switch contacts top/bottom
Display elements: LED for orientation or switch state display
Protection class of device: IP 20
Mounting depth: 14.1 mm
Dimensions (H × W × D): 44 mm x 44 mm x 23.5 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
WIRELESS						
	215951	SU-F-1.0.PB.1-WL	2CKA006200A0106			1



Switch 2/4gang
For sending switching, dimming and blind command to an ABB-free@home® actuator.
To be used with ABB-free@home® Zenit cover plates for 4 fold push buttons.
Control element: Switch contacts top/bottom
Display elements: LED for orientation or switch state display
Protection class of device: IP 20
Mounting depth: 14.1 mm
Dimensions (H × W × D): 44 mm x 44 mm x 23.5 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	187265	SU-F-2.0.PB.1	2CKA006220A0223			1



Switch 2/4gang, wireless
For sending switching, dimming and blind command to an ABB-free@home® actuator.
To be used with ABB-free@home® Zenit cover plates for 4 fold push buttons.
Control element: Switch contacts top/bottom
Display elements: LED for orientation or switch state display
Protection class of device: IP 20
Mounting depth: 14.1 mm
Dimensions (H × W × D): 44 mm x 44 mm x 23.5 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
WIRELESS						
	215968	SU-F-2.0.PB.1-WL	2CKA006200A0107			1

ABB-free@home®
Zenit/Millenium



Movement detector
With select lens for detection with animal access. For automatic switching of ABB-free@home® actuators dependent on movement and brightness.
To be used with ABB-free@home® Zenit cover plates for movement detector.
Detection range: frontal 6 m, lateral 3 m
Detection angle: 180°
Brightness limit value: 1 – 500 lux
Protection class of device: IP 20
Mounting depth: 14.1 mm
Dimensions (H × W × D): 44 mm x 44 mm x 29.6 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	187326	MD-F-1.0.PB.1	2CKA006220A0229			1



Movement detector + 1 actuator
With select lens for detection with animal access. Including an integrated actuator for switching 230 V~ devices. To be used with ABB-free@home® Zenit cover plates for movement detector.
Outputs: 1× normally open contact, potential free
Suitable for: resistive
Rated current: 10 A
Rated power: 2300 W
Suitable for: capacitive
Rated current: 10 AX
Detection range: frontal 6 m, lateral 3 m
Detection angle: 180°
Brightness limit value: 1 – 500 lux
Protection class of device: IP 20
Mounting depth: 31.5 mm
Dimensions (H × W × D): 44 mm x 44 mm x 47 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	187340	MSA-F-1.1.PB.1	2CKA006220A0231			1

ABB-free@home®
Zenit/Millenium



Movement detector + 1 actuator, wireless
With select lens for detection with animal access. Including an integrated actuator for switching 230 V~ devices. To be used with ABB-free@home® Zenit cover plates for movement detector.
Outputs: 1× normally open contact, potential free
Suitable for: resistive
Rated current: 10 A
Rated power: 2300 W
Suitable for: capacitive
Rated current: 10 AX
Detection range: frontal 6 m, lateral 3 m
Detection angle: 180°
Brightness limit value: 1 – 500 lux
Protection class of device: IP 20
Mounting depth: 31.5 mm
Dimensions (H × W × D): 44 mm x 44 mm x 47 mm

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
WIRELESS						
	216064	MSA-F-1.1.1-WL	2CKA006200A0117			1

ABB-free@home®

DINRail



Power Supply, 640 mA, MDRC
Power supply with integrated choke.
Fast diagnosis due to LED display for operational readiness and errors.
The bus can be connected via enclosed terminal block.
Display elements: Operational load/overload LED
Rated voltage: 127 - 230 V~, +10 % / -15 %
Secondary: 30 V, +2 V / --2 V
Rated frequency: 50 Hz/60 Hz
Outputs: 1
Rated current: 640 mA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 90 mm x 72 mm x 64 mm
Module width: 4 MW

	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	941839	PS-M-64.1.1	2CDG510001R0011			1



USB Interface
For the creation of a central twisted pair line in multi-dwelling applications,
e.g. a Central Weather Station in an appartment building.
Supply voltage: 5 V DC via USB Type B connector
Bus voltage: 24 V (bus connection terminal)
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 90 mm x 36 mm x 64,5 mm
Module width: 2 MW

	Bbn 4053546	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	046618	USB-M-1.1	2CDG510013R0011			

ABB-free@home®

DINRail



Switch Actuator, 4-fold, 16 A, MDRC

For switching 4 independent 127 V~/230 V~ loads.
Each contact has a manual operation function independent of auxiliary voltage for additionally displaying the contact setting.
The bus can be connected via enclosed terminal block.
Control element: Relay control element
Display elements: Relay control element
Bus voltage: 24 V
Outputs: 4
Suitable for: AC1
Rated current: 16 A, cos ϕ 0.8
Output voltage: 230 V~
Suitable for: AC3
Rated current: 8 A, cos ϕ 0.45
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 90 mm x 72 mm x 64 mm
Module width: 4 MW

	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	942089	SA-M-0.4.1	2CDG510006R0011			1



Heating Actuator, 6-fold, 230 V, MDRC

For controlling thermoelectric actuating drives in heating/cooling systems.
The outputs are protected against short-circuit and overload.
The bus can be connected via enclosed terminal block.
Bus voltage: 24 V
Outputs: 6
Suitable for: ohmic
Rated current: 160 mA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 90 mm x 72 mm x 64 mm
Module width: 4 MW

	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	941815	HA-M-0.6.1	2CDG510008R0011			1

ABB-free@home®

DINRail



Heating Actuator, 12-fold, 230 V, MDRC
For controlling thermoelectric actuating drives in heating/cooling systems.
The outputs are protected against short-circuit and overload.
The bus can be connected via enclosed terminal block.
Bus voltage: 24 V
Outputs: 12
Suitable for: ohmic
Rated current: 160 mA
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 90 mm x 144 mm x 64 mm
Module width: 8 MW

	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	941808	HA-M-0.12.1	2CDG510009R0011			1



Switch Actuator, 8-fold, 6 A, MDRC
Combination device with 8 binary inputs and 8 switch actuators.
Conventional push-buttons or auxiliary contacts can be connected to 8 channels.
The information of the contact enquiry can be used for activating ABB-free@home® actuators or for recording status information.
The contact polling voltage is made available by the device itself.
Maximum cable length at a cable cross-section of 1.5 mm² < 100 m
For switching 8 independent 230 V~ loads.
Bus voltage: 24 V
Inputs: 8
Polling voltage: 32 V-
Outputs: 8 Normally open contact, potential free (for 1 fan)
Suitable for: AC1
Rated current: 6 A, cos ϕ 0.8
Output voltage: 230 V~
Suitable for: AC3
Rated current: 6 A, cos ϕ0.45
Output voltage: 230 V~
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 90 mm x 144 mm x 64.5 mm
Module width: 8 MW

	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	945561	SA-M-8.8.1	2CDG510007R0011			1

ABB-free@home®

DINRail



Fan Coil Actuator, PWM, MDRC
For controlling blower convectors.
Supports 2-pipe and 4-pipe system for heating and cooling.
The fan speed levels can be switched using a changeover or step switch function.
Three contacts for switching a three-stage fan.
Two contacts for activating the heating and cooling valves.
Supports 24V and 230V valves.
With two binary inputs for connecting dewpoint and condensation contacts.
The scanning voltage is provided by the device.
The bus connection is provided via the enclosed bus terminal.
Bus voltage: 24 V
Inputs: 2
Polling voltage: 10 V-
Outputs: 3 Normally open contact, potential free
Suitable for: AC3
Rated current: 6 A
Output voltage: 230 V~
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 90 mm x 108 mm x 64.5 mm
Module width: 6 MW

	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	945592	FCA-M-2.3.1	2CDG510010R0011			1



Blind Actuator, 4-fold, 230 V, MDRC
For controlling 4 independent blind or roller shutter drives.
The outputs are inversely blocked.
The bus can be connected via enclosed terminal block.
Bus voltage: 24 V
Outputs: 4
Suitable for: AC3
Rated current: 6 A, cos ϕ 0.45
Output voltage: 230 V~
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 90 mm x 72 mm x 64 mm
Module width: 4 MW

	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	941785	BA-M-0.4.1	2CDG510011R0011			1

ABB-free@home®

DINRail



Dim actuator 4 x 210 W, MDRC

Multichannel universal dimming actuator optimised for dimming retrofit LED lamps (LEDi).
Also suitable for dimming incandescent lamps, low-voltage halogen lights with conventional or electronic transformers, 230 V halogen lamps and dimmable energy-saving halogen lamps.
Automatic load detection (can be deactivated).
Separate N-connection per channel.
Parallel connection of the outputs possible to increase the output power.
Outputs can be connected in parallel in any configuration.
Minimum load: 2 W.
Manual operation on device also possible without bus voltage or in an unprogrammed status.
Programming of the device also possible without applied 230 V supply voltage.
With integrated bus coupler.
Nominal power at 230 V~ mains voltage:
230 V~ incandescent and halogen lamps: 4 x 210 W/VA to 1 x 600 W/VA.
Dimmable 230 V~ LEDi: 4 x 210 W/VA to 1 x 600 W/VA in trailing edge control, 4 x 80 W/VA to 1 x 200 W/VA in leading edge control.
Inductive L-transformers with LED/low-voltage halogen lamp: 4 x 210 W/VA to 1 x 600 W/VA.
Electronic C-transformers with LED/low-voltage halogen lamp: 4 x 210 W/VA to 1 x 600 W/VA.
Electronic LC-transformers with LED/low-voltage halogen lamp: 4 x 80 W/VA to 1 x 200 W/VA.
Control element: One LED button per channel (including a colour status indication) for switching ON and OFF, as well as dimming up and down.
Bus voltage: 24 V
Rated voltage: 110 - 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Outputs: 4x dimming channel
Protection class (device): IP 20
Temperature range (device): -5 °C - 45 °C
Storage temperature range: -20 °C - 70 °C
Dimensions: (L x W x D): 90 mm x 108 mm x 64 mm
Module width: 6
Mounting depth: 68 mm
Programming only with bus voltage applied via the web interface of the System Access Point.
Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current Online-Catalogue.
Recommendation: Always use lamps of the same type and manufacturer.

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	251799	DA/M.4.210.2.1	2CKA006220A0729			1

ABB-free@home®

DINRail



Dim actuator 4x315W, MDRC

Multichannel universal dimming actuator optimised for dimming retrofit LED lamps (LEDi). Also suitable for dimming incandescent lamps, low-voltage halogen lights with conventional or electronic transformers, 230 V halogen lamps and dimmable energy-saving halogen lamps. Automatic load detection (can be deactivated). Separate N-connection per channel. Parallel connection of the outputs possible to increase the output power. Outputs can be connected in parallel in groups. Minimum load: 2 W. Manual operation on device also possible without bus voltage or in an unprogrammed status. Programming of the device also possible without applied 230V supply voltage. Extensive test and diagnosis functions for the i-Bus tool. Fast parameter setting in ETS using copyable channel templates. With integrated bus coupler.
Nominal power at 230 V~ mains voltage: 230 V~ incandescent and halogen lamps: 4 x 315 W/VA to 2 x 500 W/VA in trailing edge control, 4 x 120 W/VA to 2 x 200 W/VA in leading edge control. Dimmable 230 V~ LEDi: 4 x 315 W/VA to 2 x 500 W/VA in trailing edge control, 4 x 120 W/VA to 2 x 200 W/VA in leading edge control. Inductive L-transformers with LED/low-voltage halogen lamp: 4 x 315 W/VA to 2 x 500 W/VA. Electronic C-transformers with LED/low-voltage halogen lamp: 4 x 315 W/VA to 2 x 500 W/VA. Electronic LC-transformers with LED/low-voltage halogen lamp: 4 x 120 W/VA to 2 x 200 W/VA.
Control element: One LED button per channel (including a colour status indication) for switching ON and OFF, as well as dimming up and down.
Bus voltage: 24 V
Rated voltage: 230 V~ +10 % / -10 %
Rated frequency: 50 Hz / 60 Hz
Outputs: 4 dimming channel
Protection class (device): IP 20
Temperature range (device): -5 °C - 45 °C
Storage temperature range: -20 °C - 70 °C
Dimensions: (L x W x D): 90 mm x 144 mm x 64 mm
Module width: X
Mounting depth: 68 mm
Programming only with bus voltage applied via the web interface of the System Access Point. For software and description please check the current Online-Catalogue. 1 MW ≙ 18 mm.
Recommendation: Always use lamps of the same type and manufacturer.

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
		DA/M.4.315.2.1	2CKA006220A0838			1

ABB-free@home®

DINRail



Dim actuator 6x210W, MDRC

Multichannel universal dimming actuator optimised for dimming retrofit LED lamps (LEDi).
Also suitable for dimming incandescent lamps, low-voltage halogen lights with conventional or electronic transformers, 230 V halogen lamps and dimmable energy-saving halogen lamps.
Automatic load detection (can be deactivated).
Separate N-connection per channel.
Parallel connection of the outputs possible to increase the output power.
Outputs can be connected in parallel in any configuration.
Minimum load: 2 W.
Manual operation on device also possible without bus voltage or in an unprogrammed status.
Programming of the device also possible without applied 230 V supply voltage.
With integrated bus coupler.
Nominal power at 230 V~ mains voltage:
230 V~ incandescent and halogen lamps: 6 x 210 W/VA to 1 x 800 W/VA.
Dimmable 230 V~ LEDi: 6 x 210 W/VA to 1 x 800 W/VA in trailing edge control, 6 x 80 W/VA to 1 x 240 W/VA in leading edge control.
Inductive L-transformers with LED/low-voltage halogen lamp: 6 x 210 W/VA to 1 x 800 W/VA.
Electronic C-transformers with LED/low-voltage halogen lamp: 6 x 210 W/VA to 1 x 800 W/VA.
Electronic LC-transformers with LED/low-voltage halogen lamp: 6 x 80 W/VA to 1 x 240 W/VA.
Control element: One LED button per channel (including a colour status indication) for switching ON and OFF, as well as dimming up and down.
Bus voltage: 24 V
Rated voltage: 110 - 230 V~, +10 % / -10 %
Rated frequency: 50 Hz - 60 Hz
Outputs: 6x dimming channel
Protection class (device): IP 20
Temperature range (device): -5 °C - 45 °C
Storage temperature range: -20 °C - 70 °C
Dimensions: (L x W x D): 90 mm x 144 mm x 64 mm
Module width: 8
Mounting depth: 68 mm
Programming only with bus voltage applied via the web interface of the System Access Point.
Additional information about commissioning and operation is contained in the system manual and the online operating manual of the current Online-Catalogue.
Recommendation: Always use lamps of the same type and manufacturer.

	Bbn 4011395	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	252031	DA/M.6.210.2.1	2CKA006220A0731			1

ABB-free@home®

DINRail



DALI Gateway, MDRC

The device is used to interface between DALI and free@home installations and incorporates the DALI power supply. One DALI output for up to 16 DALI Slaves.
Bus voltage: 24 V
Rated voltage: 100 – 240 V ~
Rated frequency: 50 Hz, 60 Hz
DALI outputs: 1
Protection class (device): IP 20
Dimensions: (L x W x D): 90mm x 72 mm x 64 mm

	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	067409	DG-M-1.16.1	2CDG510012R0011			1



Split Unit Gateway, FM

The device is used to interface between the free@home system and many manufacturers' air conditioners, so-called split units. The device converts the free@home telegrams into infrared commands and transmits them to the split unit. The transmitter of the supplied cable is bonded directly onto the split unit's receiver. The split unit then no longer receives the commands from a remote control. Instead, it can be operated via any free@home sensors. The model of the split unit can be selected during commissioning. Auxiliary voltage is not required.
Bus voltage: 24 V
Outputs: 1
Protection class (device): IP 20
Dimensions: (L x W x D): 39mm x 40 mm x 12 mm

	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	945578	SUG-F-1.1	2CDG510005R0011			1



SAP/A2.1

Alarm Stick

Suitable for the free@home system integration of the Busch-Smoke alarm detector, Busch-Heat detectors and Busch-CO Alarm via the associated radio modules
System prerequisite: ABB-free@home® System Access Point from SAP/S.3.
Including USB extension cables for practical fixing outside the junction box
Integration of alarm devices as free@home participants.
Linking of the integrated detector with scenes and groups.
Generation of Pusch notification in case of an alarm for mobile terminal devices.
Radio frequency: 868 MHz

	Order details		Price 1 piece	Weight 1 piece	Pack unit
	Type code	Order code		kg	pc.
	SAP/A2.1	2CKA006800A2868			

ABB-free@home®

DINRail



USB Interface

For the creation of a central twisted pair line in multi-dwelling applications, e.g. a Central Weather Station in an appartment building.
Supply voltage: 5 V DC via USB Type B connector
Bus voltage: 24 V (bus connection terminal)
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 90 mm x 36 mm x 64,5 mm
Module width: 2 MW

	Bbn 4053546	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	046618	USB-M-1.1	2CDG510013R0011			



Binary Input, 4-fold, 230 V, MDRC

The device detects AC/DC signals of 10 - 230 V via 4 channels. The information of the signal evaluation can be used for controlling ABB-free@home® actuators or for recording status information.
The bus can be connected via enclosed terminal block.
Bus voltage: 24 V
Inputs: 4
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 90 mm x 36 mm x 64 mm
Module width: 2 MW

	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	941778	BI-M-4.0.1	2CDG510004R0011			1



Binary Input, 2-fold, FM

Conventional push-buttons or auxiliary contacts can be connected to 2 channels. The information of the contact enquiry can be used for activating ABB-free@home® actuators or for recording status information.
The contact polling voltage is made available from the binary input itself. Extension of the connecting cables possible by a maximum of 10 m.
Flush-mounted device for installation in a 60 mm device box or distribution box.
The bus can be connected via enclosed terminal block.
Bus voltage: 24 V
Inputs: 2
Polling voltage: 20 V-,
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 39 mm x 40 mm x 12 mm

	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	941679	BI-F-2.0.1	2CDG510002R0011			1

ABB-free@home®

DINRail



Binary Input, 4-fold, FM

Conventional push-buttons or auxiliary contacts can be connected to 4 channels. The information of the contact enquiry can be used for activating ABB-free@home® actuators or for recording status information.
The contact polling voltage is made available from the binary input itself. Extension of the connecting cables possible by a maximum of 10 m.
Flush-mounted device for installation in a 60 mm device box or distribution box.
The bus can be connected via enclosed terminal block.
Bus voltage: 24 V
Inputs: 4
Polling voltage: 20 V-,
Protection class (Device): IP 20
Temperature range (Device): -5 °C to 45 °C
Dimensions: (L x W x D): 39 mm x 40 mm x 12 mm

	Bbn 4016779	Order details		Price 1 piece	Weight 1 piece	Pack unit
	EAN	Type code	Order code		kg	pc.
	941884	BI-F-4.0.1	2CDG510003R0011			1

ABB-free@home®

Communicative and competent – The ABB partner close to you





Advice and assistance close to you. Your electrician will be happy to explain to you in detail the advantages of ABB-free@home® in a face-to-face discussion. This will allow home automation to be planned to suit your individual requirements.

The suitable electrician
The electrician familiar with ABB-free@home® can be found at www.abb.com/freeathome. Simply enter your postcode – and the firms in your region will be displayed.

Now scan the QR code to find out more about the advantages of ABB-free@home®.

Electrical installation solutions for buildings
ABB-AccessControl

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Access control

The smarter way to control your door

Access control via digital locking cylinders has long been the system of choice in both private and commercial daily life. ABB-AccessControl ensures easy scalability, even for large-scale projects.

ABB-AccessControl comes along with maximum encryption transmission to ensure all cyber security demands. It can be planned as standalone solution or can be easily part of a bigger Building system due to smart connectivity via IP.

ABB-AccessControl as professional solution supports remote access and management possibilities that makes people's lives easier, thus for operators and end-users. The MyBuildingportal powered by ABB Ability provides the right and secure remote service.




a.206

Access control

The smarter way to control your door

Quick and easy retrofit to traditional mechanical cylinder
Whatever your access control needs, electronic wireless cylinders provide an ultra-modern solution that will compliment any type of door wherever they are used.

Maximum security by sophisticated encrypted communication
The DESfire EV1 key fob with sophisticated encryption technology makes duplication impossible. Plus the real-time cancellation to a lost or stolen key fob from management software, the door is secured all the time.

In addition, it is the encrypted radio frequency communication to transfer information from cylinder to Smart Access Point Pro. Both RF repeater and RF/IP gateway are also equipped with the same encryption mechanism.



Triple reminder guarantees on-time battery replacement
Despite the latest BLE low energy consumption technology, the battery can run with low power for quite a long period of time. When the reminder time has come with its self-counting algorithm, there will be visual indication from flash light every time swiping the card, in addition, the App will also receive the notification to change the battery. Finally, the email will be altered with the same information. With the help of local device App and email placement reminder, no need to worry about low battery power of your smart cylinder.

Scalable to big project
ABB-AccessControl is not restricted with wireless transmission, which is superb in short distance projects. The versatile system can flexibly scale up thanks to the RF/IP gateway. No limits of distance and capacity to decentralize each RF/IP gateway to manage up to 16 cylinders. This makes the new and big construction projects as easy as small projects to plan and to install.

User-friendly management system with intuitive web design
To intuitively visualize and manage the interlink between different user groups and door groups, is the key job of digital access control system. Administrator can quickly and easily execute all access plan updates on the system such as instant changes to user access privileges and can control the entire property. Meanwhile, administrator also can handle users' specific access rights to specific openings by setting the right mode from the choices of options.

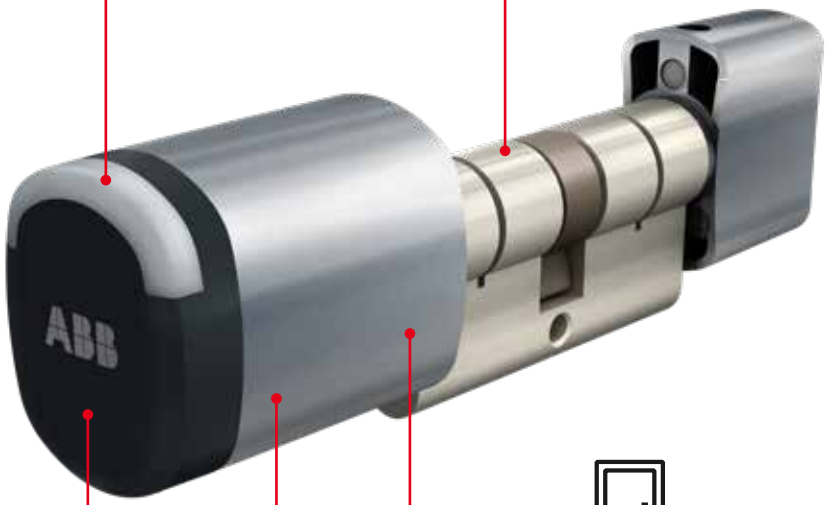


Make a door smart

Example of European full profile cylinder

Different lengths and profiles
Different lengths for different door thicknesses and profiles for EU, US, SCAN, SWISS standards

Visual and acoustic indication
On-site feedback for permitted or non-permitted access and other notification



Interior and exterior doors
All the cylinders are suitable for interior and exterior doors, with IP66 protection level

MIFARE® DESFire® EV2
Transponders in three color variants are available as modern keys

In-built batteries
For up to 130,000 openings and reminder for soon necessary battery change

Control everything

Smart Access Point Pro

Access all possibilities
Central management device for AccessControl and Welcome IP systems. Support up to 600 devices and 2000 Users

Who, where and when
Access rights management for controlling up to 2000 users with manageable access



Easy commissioning and remote control
Web interface, no additional commissioning software is required

ABB-AccessControl

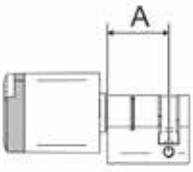
Cylinder - European profile





Cylinder - European half profile and European full profile
The cylinder is suitable for any interior or weather-proofed exterior door, making it a very versatile solution. As there is no wiring whatsoever, mounting and replacement is completed in next to no time, whether you are installing a cylinder for the first time or retrofitting. The cylinder can be operated offline, in a local networked configuration or online through internet.

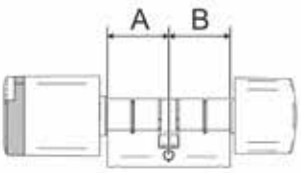
- Supported RFID standards: MIFARE (DESFire EV1)
- Radio interface: IEEE 802.15.4 2.4GHz radio
- Battery: 4x LR1 Alkali
- Battery life at 20 °C: up to 130.000 or up to 3 years
- Temperature: -35 °C to 55 °C
- Protection type: up to IP66
- Humidity: 0 to 95%, non-condensing
- Certification symbol: CE, FCC, IC, IP66, EAC, WEEE



European half profile						
B	**00**	**30**	**35**	**40**	**45**	**50**
A						
30	1174	1183	1192	1201	1210	1219
35	1175	1184	1193	1202	1211	1220
40	1176	1185	1194	1203	1212	1221
45	1177	1186	1195	1204	1213	1222
50	1178	1187	1196	1205	1214	1223
55	1179	1188	1197	1206	1215	1224
60	1180	1189	1198	1207	1216	1225
65	1181	1190	1199	1208	1217	1226
70	1182	1191	1200	1209	1218	1227

Article no. D01EU**AABB**03NF1-04 Replace in the article number "**AA**" with measure A and "**BB**" with measure B

Order no. 2CKA008300A**XXXX** Replace in the order number "**XXXX**" with the corresponding code in the measures table



European full profile with thumbturn									
B	**30**	**35**	**40**	**45**	**50**	**55**	**60**	**65**	**70**
A									
30	1228	1229	1230	1231	1232	1233	1234	1235	1236
35	1237	1238	1239	1240	1241	1242	1243	1244	1245
40	1246	1247	1248	1249	1250	1251	1252	1253	1254
45	1255	1256	1257	1258	1259	1260	1261	1262	1263
50	1264	1265	1266	1267	1268	1269	1270	1271	1272
55	1273	1274	1275	1276	1277	1278	1279	1280	1281
60	1282	1283	1284	1285	1286	1287	1288	1289	1290
65	1291	1292	1293	1294	1295	1296	1297	1298	1299
70	1300	1301	1302	1303	1304	1305	1306	1307	1308

Article no. D01EU**AABB**03TF1-04 Replace in the article number "**AA**" with measure A and "**BB**" with measure B

Order no. 2CKA008300A**XXXX** Replace in the order number "**XXXX**" with the corresponding code in the measures table

ABB-AccessControl

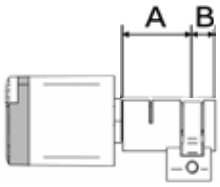
Cylinder - Swiss profile





Cylinder - Swiss half profile and Swiss full profile
The cylinder is suitable for any interior or weather-proofed exterior door, making it a very versatile solution. As there is no wiring whatsoever, mounting and replacement is completed in next to no time, whether you are installing a cylinder for the first time or retrofitting. The cylinder can be operated offline, in a local networked configuration or online through internet.

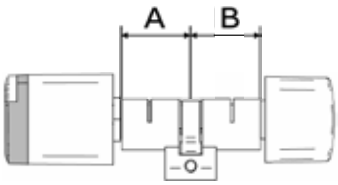
- Supported RFID standards: MIFARE (DESFire EV1)
- Radio interface: IEEE 802.15.4 2.4GHz radio
- Battery: 4x LR1 Alkali
- Battery life at 20 °C: up to 130.000 or up to 3 years
- Temperature: -35 °C to 55 °C
- Protection type: up to IP66
- Humidity: 0 to 95%, non-condensing
- Certification symbol: CE, FCC, IC, IP66, EAC, WEEE



Swiss half profile						
B	**00**	**30**	**35**	**40**	**45**	**50**
A						
30	1309	1318	1327	1336	1345	1354
35	1310	1319	1328	1337	1346	1355
40	1311	1320	1329	1338	1347	1356
45	1312	1321	1330	1339	1348	1357
50	1313	1322	1331	1340	1349	1358
55	1314	1323	1332	1341	1350	1359
60	1315	1324	1333	1342	1351	1360
65	1316	1325	1334	1343	1352	1361
70	1317	1326	1335	1344	1353	1362

Article no. D01CH**AABB**03NF1-04 Replace in the article number "**AA**" with measure A and "**BB**" with measure B.

Order no. 2CKA008300A**XXXX** Replace in the order number "**XXXX**" with the corresponding code in the measures table.



Swiss full profile with thumbturn									
B	**30**	**35**	**40**	**45**	**50**	**55**	**60**	**65**	**70**
A									
30	1363	1364	1365	1366	1367	1368	1369	1370	1371
35	1372	1373	1374	1375	1376	1377	1378	1379	1380
40	1381	1382	1383	1384	1385	1386	1387	1388	1389
45	1390	1391	1392	1393	1394	1395	1396	1397	1398
50	1399	1400	1401	1402	1403	1404	1405	1406	1407
55	1408	1409	1410	1411	1412	1413	1414	1415	1416
60	1417	1418	1419	1420	1421	1422	1423	1424	1425
65	1426	1427	1428	1429	1430	1431	1432	1433	1434
70	1435	1436	1437	1438	1439	1440	1441	1442	1443

Article no. D01CH**AABB**03TF1-04 Replace in the article number "**AA**" with measure A and "**BB**" with measure B.

Order no. 2CKA008300A**XXXX** Replace in the order number "**XXXX**" with the corresponding code in the measures table.

ABB-AccessControl

Cylinder - Scandinavian profile



Cylinder - Scandinavian half profile
The cylinder is suitable for any interior or weather-proofed exterior door, making it a very versatile solution. As there is no wiring whatsoever, mounting and replacement is completed in next to no time, whether you are installing a cylinder for the first time or retrofitting. The cylinder can be operated offline, in a local networked configuration or online through internet.

- Supported RFID standards: MIFARE (DESFire EV1)
- Radio interface: IEEE 802.15.4 2.4GHz radio
- Battery: 4x LR1 Alkali
- Battery life at 20 °C: up to 130.000 or up to 3 years
- Temperature: -35 °C to 55 °C
- Protection type: up to IP66
- Humidity: 0 to 95%, non-condensing
- Certification symbol: CE, FCC, IC, IP66, EAC, WEEE

Scandinavian half profile	
Dimension	30/00
Article no.	D01SC300003NF1-04
Order no.	2CKA008300A0846

ABB-AccessControl

Cylinder - ANSI profile

Cylinder - Mortise profile, RIM US profile for standard & Schlage® B-Series deadbolt
The cylinder is suitable for any interior or weather-proofed exterior door, making it a very versatile solution. As there is no wiring whatsoever, mounting and replacement is completed in next to no time, whether you are installing a cylinder for the first time or retrofitting. The cylinder can be operated offline, in a local networked configuration or online through internet.

- Supported RFID standards: MIFARE (DESFire EV1)
- Radio interface: IEEE 802.15.4 2.4GHz radio
- Battery: 4x LR1 Alkali
- Battery life at 20 °C: up to 130.000 or up to 3 years
- Temperature: -35 °C to 55 °C
- Protection type: up to IP66
- Humidity: 0 to 95%, non-condensing
- Certification symbol: CE, FCC, IC, IP66, EAC, WEEE



Mortice profile			
Dimension	32/00	35/00	38/00
Article no.	D01MO320003NF1-04	D01MO350003NF1-04	D01MO380003NF1-04
Order no.	2CKA008300A0986	2CKA008300A0987	2CKA008300A0988
Dimension	41/00	44/00	50/00
Article no.	D01MO410003NF1-04	D01MO440003NF1-04	D01MO500003NF1-04
Order no.	2CKA008300A0989	2CKA008300A0990	2CKA008300A0991



Latch cylinder for standard deadbolt	
Dimension	00/00
Article no.	D01US000003NF1-04
Order no.	2CKA008300A0983

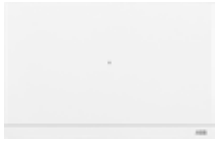


Latch cylinder for standard deadbolt	
Dimension	32/00
Article no.	D01DB000003NF1-04
Order no.	2CKA008300A1015

ABB-AccessControl

System devices

Shared features:
- Radio interface: IEEE 802.15.4 2.4GHz radio
- Power supply: 24 V DC
- Temperature: -10 °C to +45 °C
- Protection type: IP30
- Vandal proof: IK07
- Humidity: 0 to 95%, non-condensing



Smart Access Point Pro

A central management device of AccessControl and Welcome IP, it can couple as sub-system, and also manage interworking of multiple sub-system of same type. Commissioning and remote control is executed via web interface. No additional commissioning software is required.
Connection to the network via WLAN client mode or via CAT cable to manage all your access, configure all your devices, record your logs, etc.

- Easy to commissioning
- Access rights for full management
- Enhanced security with record event log and receive notification and alert
- Manage all connected devices
- Interaction between different systems
- Manage welcome App
- Event management and building-wide messaging
- Integrated chimey, easy for retrofit
- Dimension: 204 × 132 × 32 mm / 8 x 5.2 x 1.25 inch
- Operating mode: LAN / WiFi-Client / WiFi-AP
- Wireless transmission band: IEEE 802.11 a/b/g/n 2.4 GHz/5.8 GHz
- Safety standard: WPA-PSK, WPA2-PSK, WPA, WPA2, IEEE 802.1x
- Network connection standard: 10 / 100 Mbps, auto MDI/MDI-X
- PoE (Power over Ethernet)

Article no.	D04011
Order no.	2TMA400260W0002



RF repeater

RF repeater is for indoor applications, wireless extension of radio range by integrated antenna. No network knowledge is required for the wireless network. The RF repeater is available in the elegant housings and can be combined with all VDE boxes, and also can be surface-mounted on the wall.

- Scale up system topology easily
- Easy and fast configuration
- Firmware update remotely
- Dimension: 90 x 90 x 28 mm / 3.5 x 3.5 x 1.1 inch

Article no.	D04021
Order no.	2TMA400260W0003

ABB-AccessControl
Accessories

RF/IP Gateway

RF/IP Gateway is an easy solution to connect the cylinders to IP platform, so it is one important device to extend the AC solution from residential to commercial, support more than 16 doors, even there is long distance between each door.

- Scale up wireless access control system topology easily
- One RF/IP gateway can support another 16 cylinders
- Maximum 64 gateways can be connected
- Easy and fast configuration
- Graphical visual configuration through SmartAP web-based interface, pair and link the locks simply and fast
- Different power solution to meet different requests
- PoE
- Power supply: 24 V DC
- Firmware update remotely through SmartAP and APP
- Dimension: 107 × 109 × 30 mm / 4.2 x 4.3 x 1.2 inch
- Radio interface: IEEE 802.15.4 2.4GHz radio
- Power supply: 24 V DC
- Temperature: -10 °C to +45 °C
- Protection type: IP30
- Vandal proof: IK07
- Humidity: 0 to 95%, non-condensing

Article no.	D04031
Order no.	2TMA400260W0013



Tag

The tag is based on RFID chip technology. Available in electronic cylinders and ABB outdoor readers. With a special encryption to ensure secure controlled access.

- 13.56 MHz contactless RFID identification, DESfireEV1 (256, 2K, 4K, 8K bytes)
- Compatible in all ABB devices
- Modern design with ID-number layout
- Waterproof
- 13.56 MHz, Mifare DESfireEV1 chip

Version	White	Grey	Black
Article no.	D081WH-04	D081GY-04	D081BK-04
Order no.	2CKA008300A1001	2CKA008300A1002	2CKA008300A1004

ABB-AccessControl
Accessories



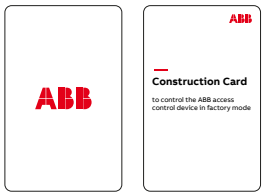
Maintenance tool
A tool for disassembling / mounting the knob, to install in new door, or replace battery.

Article no.	D080MT-04
Order no.	2CKA0083000A1006



Maintentance card
Maintenance card to activate the digital cylinder into the smart access point.

Article no.	D080MC-04
Order no.	2CKA0083000A1007



Construction card
Construction to control the digital cylinder in factory mode.

Article no.	D080CC-04
Order no.	2CKA0083000A1012



Battery pack LR1
Spare part, batteries already included in the digital cylinder package.

Article no.	D080BT-03
Order no.	2CKA0083000A1013

Electrical installation solutions for buildings

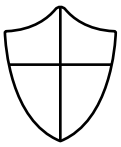
Door entry system

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You may also visit our Door entry systems website:

Access all possibilities
Connecting to a smarter life



—
Security

To make you safer and enjoy your own time, ABB combines all the security functions that keep you all day long with peace of mind. Both ABB-Welcome and ABB-Welcome IP provide secure control of your accesses, whether we are talking about gates, front doors or entrance doors.



—
01
Video indoor station 4.3" Wi-Fi



—
02
IP Touch 7”



Thanks to door entry technology, and in particular IP HD technology, the residents of the house and building are always accessible to visitors with high-definition images transmitted from a multi-channel bandwidth. It is much more colourful, brighter, clearer and no interference in communication.

Cyber security

We believe that security and privacy are core values in our life.
We want to protect you, at the same time giving you control over your home.

At ABB we design the devices you use every day, whether it's for door entry, home automation or intrusion, to make this possible, integrating the most powerful technologies for your security.

MyBuildings portal
Enterprise-grade cloud infrastructure is designed for uninterrupted operation and securely protects your communication and data… all for your home!

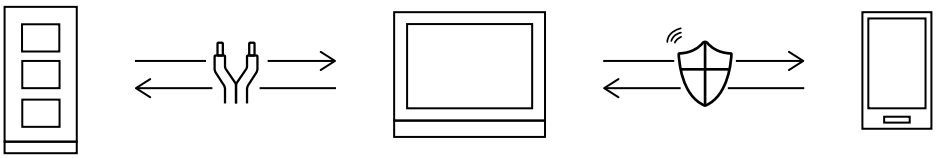
ABB Cyber Security Chip built into devices
Dedicated unique certification into the chip encrypts all your passwords and data, enabling trusted communication to our portal and apps.

End-to-end encryption
With the combination of built-in hardware security and end-to-end encryption, we make it extremely harder for any ill-intentioned to access your home.



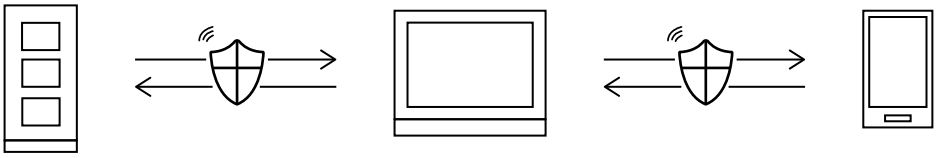
Welcome

In Welcome all the communication from the panels toward the cloud use these technologies.



Welcome IP

In Welcome IP, we protected all the communications among all the devices and the cloud.

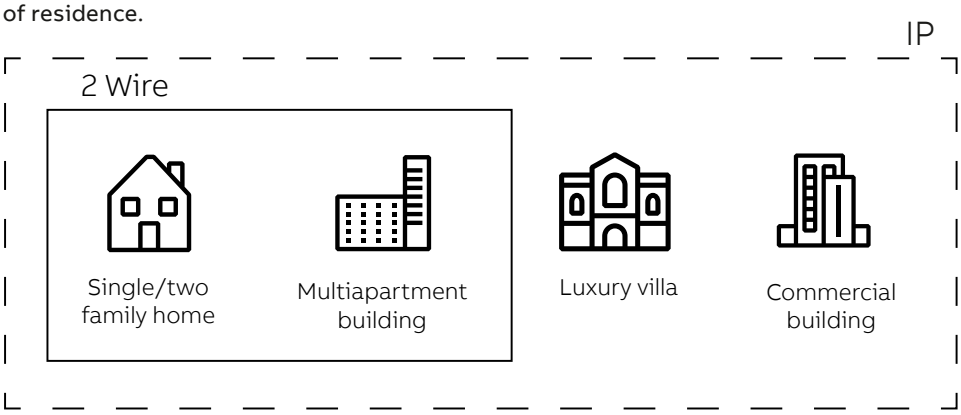


Customized solutions
According to your needs

ABB Door Entry System is more than just a door audio and video system, it's the future of smart home monitoring and security right at your fingertips.

Flexibility

Customized solutions for complete building automation, in commercial, public, and privately used buildings. The combination of the 2-wire and IP system makes ABB's proposal wide and varied enough to satisfy every type of residence.



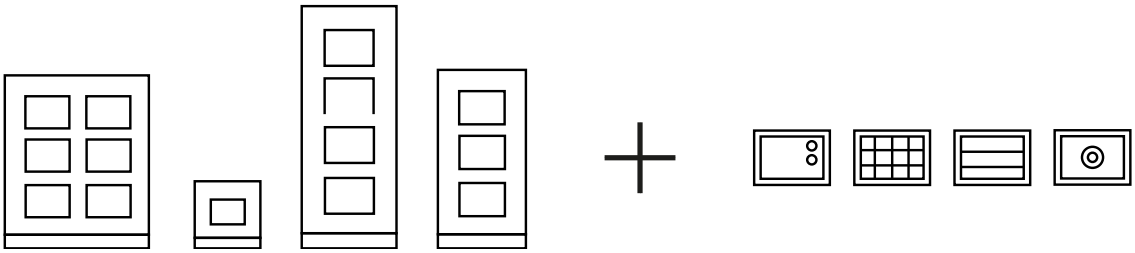


Modular flexibility

Module design with infinite possibilities.
Our customers' requirements vary from the most basic to the complex. With functional modules, ABB-Welcome provides the answer for all these needs. For all types of new construction many combinations of outdoor stations are possible to create the desired solution according to the requirements of the builder, architect, installer and the aesthetic taste of the owner.



With this approch the modular outdoor station fits all type of buildings.



Examples of outdoor frames and modules that can be combined to create the right outdoor station for every need.

Customized solutions
According to your needs

Simplicity

Setting up your Welcome system is very simple: the 2-wire technology allows ease of installation also in case of renovation and even advanced functionalities like WiFi connectivity to the mobile app can be set through just the scan of a QR code.
Also the IP technology becomes easy: wireless and PoE connection make the system really easy to install. For the commissioning quickly create the building structure and scan the QR code of a device to place into the desired location, upload the information into devices. 1-2-3, Done!



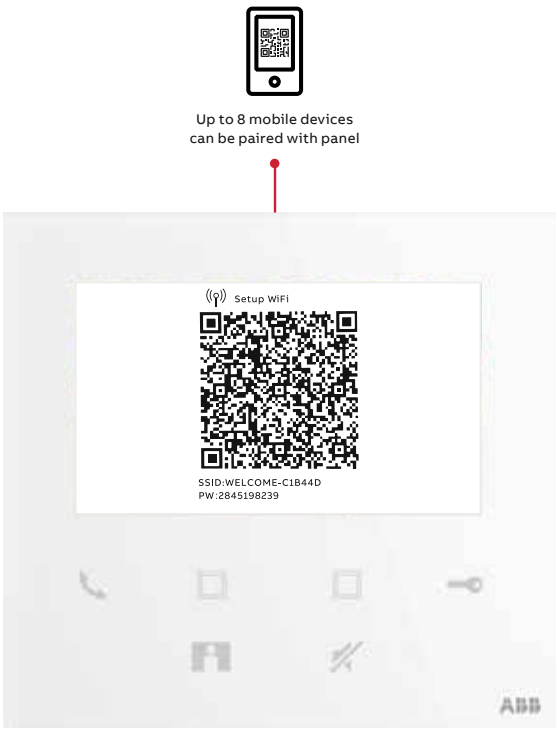
Customized solutions

According to your needs

Simple understanding

ABB always takes pride in user experience and innovates common network technology to create a totally smarter solution that can perfectly meet your every need.

Main menu with easy settings for door communication, video surveillance and home automation.
The new interface ensures that comprehensive functions in a room or entire building are centrally visualized, easy and intuitively operated in a comfortable and efficient manner.



—
03
4.3" video indoor
station during
the pairing process



—
04
Interface
of IP touch 10"

Customized solutions
According to your needs

Connectivity

You can answer and open the door remotly via the Welcome App.
The App is a cloud based integrated platform working with both iOS and Android. It allows you to use your smart phone or tablet managing the calls from IP Touch panel, 4.3” series WiFi, from all other 2wire panel with the IP gateway, digital cylinder and surveillance locally or remotely.
You can also set up your customized App with as many steps as you wish. Thanks to MyBuildings portal, the remote connection is totally automated and managed with the highest level of security and data privacy. No special settings need to be made on the internet router for this solution.



01
First screen of the App with selection of devices to pair.



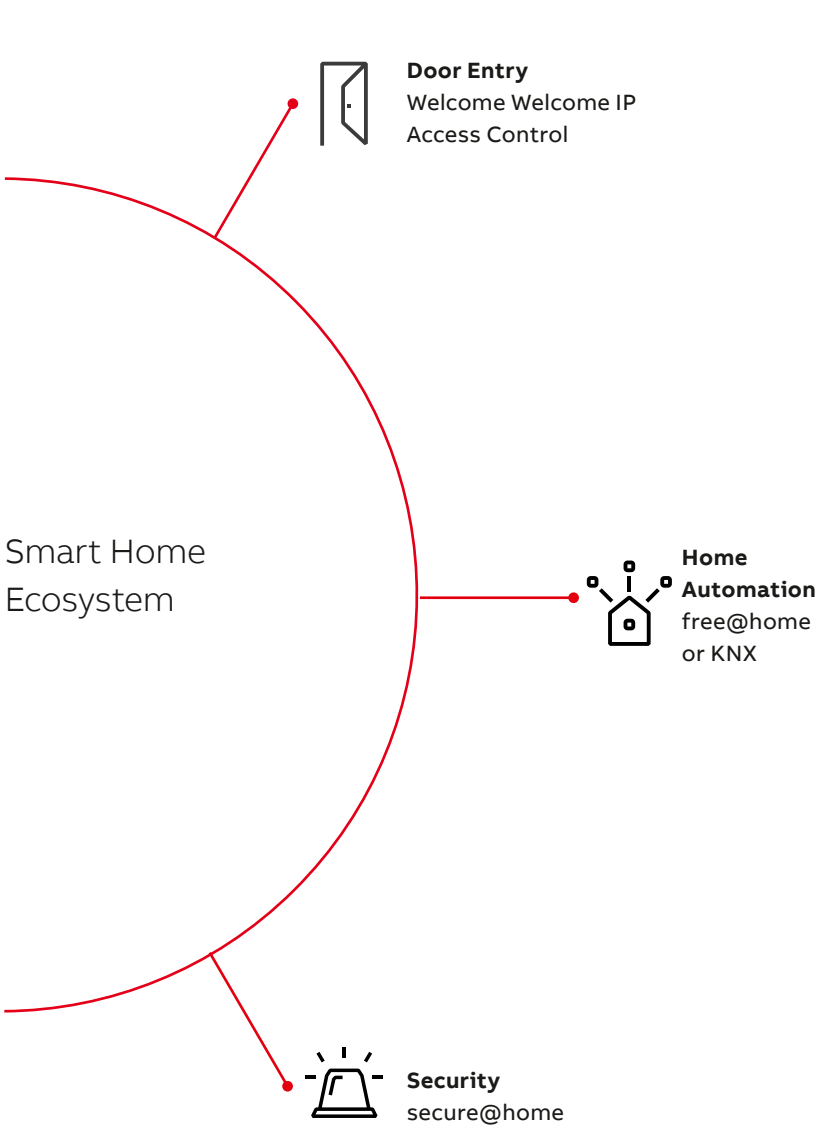
02
Pairing process: scan the QR code, that appears on the indoor station, via the app.



03
Incoming door call from the outdoor station.

Smart Home Ecosystem

Imagine the very best in comfort, security, design and energy efficiency for tomorrow's smart home, today. ABB can bring this to any residential building more easily than ever. All the functions that can be controlled such as blinds, lighting, heating, air-conditioning, door communication, access control and security are designed to make life simpler and smarter.
Controlling the heart of the home or answering to your doorbell can be done at the touch of a panel, from the comfort of your armchair or remotely.









Access all possibilities

		2-wire	IP
Technical Basic Information	Building type	 Luxury villa  Multiapartment building  Single/two family home	 Luxury villa  Commercial building  Multi apartment building
	Apartments per building (up to)	250	2000
	OS per building (up to)	9	64
	Number of buildings	60	No limits
	Total maximum number of Indoor Stations	6000	No limits
	Maximum distance from OS to IS	600 m	No limits
Integrations	Access control integration	Limited to keypad and fingerprint	Yes (including smart locks)
	Cameras integration	Analog	Yes - ONVIF Profile S, H.264
	Smart home system integration	Yes – via dedicated indoor station	●
Remote Management	Remote answer via APP	●	●
	Remote answer via PC		●
	Software automatic update		●
	Commissioning	Simple rotary switches	Via APP or PC

Door entry system

ABB-Welcome - Video outdoor stations - Comparison

	Keypad series	**Mini series**	**Modular audio/video OS**
			
Type	Monoblock	Monoblock	Modular
Recommended application	Multi apartment building	Single/two family home	Flexible all type of buildings
Audio only		●	
Video	550 TV Lines Effective Pixels: 1292 (H) x 968 (V)	600 TV lines Effective pixels: 1297 (H) x 977 (V)	550 TV Lines Effective Pixels: 1292 (H) x 968 (V)
Detection angles	Horizontal: 100 °Vertical: 70° Diagonal: 130°	Horizontal: 111° Vertical: 73° Diagonal: 130°	Horizontal: 100 °Vertical: 70° Diagonal: 130°
Weather protection	IP54	IP54	IP54
Impact protection	IK07	IK07	IK07
User interface	Keypad	Or Keypad or pushbotton	Keypad
Flush Mounting	●	●	●
Surface Mounting	●	●	●
Maximum number of IS	No limits	No limits	No limits
Door opening by transponder	●	●	●
Keypad opening	●	●	●

2-wire video outdoor station

ABB-Welcome - Outdoor stations

Shared features:

- Type of installation: SM or FM
- IP54: dustproof & watreproof
- IK07: vandal proof



Keypad series

Video outdoor station with A/V module, display module & keypad module. One lock can be directly connected without independent power supply for the lock and additional terminal for second lock is available.

- Anti-fog design with built-in heater for clear images also in wet conditions
- Built-in infrared lighting for clear images at night and hidden surveillance from video indoor station and integrated optic sensor for day/night mode
- LED indicator for real-time status
- Opening of the door by DESFire or IC card. Support to establish the call by enter room number or by searching name through display and support to open the door by entering correct password through keypad module
- Easy to set default lock by one dip-switch
- Lock release time and speaker volume are adjustable
- Enable/disable outdoor station's acoustic feedback when pressing button
- Support local power supply (20-30 V DC)
- Support to release the default lock by pressing local exit button
- Wiegand output available, support 26 bits (default) and 34 bits
- Dimensions: 349 x 135 x 29 mm / 13.7 x 5.3 x 1.1 inch

Version	Aluminum, with ID card	Aluminum, with IC card
Article no.	M21381K-A	M21382K-A
Order no.	2TMA210010A0051	2TMA210010A0053



Mini series

Outdoor station-aluminum, up to 2 lock connections.

- Compact size
- Integrated status display
- Light switch or calling guard programmable for the 2nd button
- Dimensions (SM): 168 x 99 x 26,5 mm / 6.6 x 3.9 x 1 inch
- Dimensions (FM): 180 x 105 x 43 mm / 7 x 4.1 x 1.7 inch

		Article no.	Order no.	EU (excluding DACH)	RU, USA, other (excluding CN)
1 button	ID card reader - SM	M21312P1-A	2TMA070010A0018		●
		M21312P1-A-02	2TMA210010A0032	●	
	ID card reader - FM	M21362P1-A	2TMA210010A0039		●
		M21362P1-A-02	2TMA210010A0041	●	
	No ID card reader - SM	M21311P1-A	2TMA070010A0016		●
		M21311P1-A-02	2TMA210010A0030	●	
2 buttons	ID card reader - SM	M21312P2-A	2TMA070010A0019		●
		M21312P2-A-02	2TMA210010A0033	●	
	ID card reader - FM	M21362P2-A	2TMA210010A0040		●
		M21362P2-A-02	2TMA210010A0042	●	
	No ID card reader - SM	M21311P2-A	2TMA070010A0017		●
		M21311P2-A-02	2TMA210010A0031	●	

With FM version is optional the Pre-installation box		Dimensions
Article no.	41361F	174 x 98 x 45 mm
Order no.	2TMA110010N0001	6.8 x 3.8 x 1.8 inch

Standalone

ABB-Welcome - Outdoor stations

Standalone outdor station:
Standalone access control outdoor station.
These can be use with Welcome 2-wire.

Common technical details:
- Dimensions: 139 x 135 x 29 mm / 5.5 x 5.3 x 1.1 inch
- Type of installation: SM or FM
- Rating current: 24 V DC, 25 mA
- Operating temperature: -40 °C...+55 °C
- Dustproof and watreproof: IP54
- Vandal proof: IK07
- Single-wire/fine-wire clamps: 2 x 0.28 mm²...2 x 0.75 mm²
- Connects to ABB-Welcome door communication by 2-wire cable



Standalone keypad module:
- Enables the opening of the door using a numerical code
- 1800 passwords can be taught in
- Enable control switch actuator with lights connected
- Standalone operation together with system controller (power supply) and switch actuator (security connection for the electrical door opener or light)
- Programming directly on the module
- Mounting tool is enclosed

Version	Stainless steel ■
Article no.	M2700KP-S
Order no.	2TMA200160X0005



Standalone transponder module:
- Enables the opening of the door using a key card
- 1800 users can be taught in
- Standalone operation together with system controller (power supply) and switch actuator (security connection for the electrical door opener)
- Programming directly on the module or using PC management software (requires 2-wire adaptor M2308)
- Mounting tool is enclosed

Version	Stainless steel ■
Article no.	M2700TP-S
Order no.	2TMA200010X0001



Standalone keypad module:
- Enables the opening of the door using a fingerprint scanner
- 64 users can be taught in
- Standalone operation together with system controller (power supply) and switch actuator (security connection for the electrical door opener)
- Programming directly on the module or using PC management software (requires 2-wire adaptor M2308)
- Mounting tool is enclosed

Version	Stainless steel ■
Article no.	M2700FP-S
Order no.	2TMA200160X0007

Door entry system

ABB-Welcome IP - Video outdoor stations - Comparison

	Video OS touch 5”	Video Keypad OS	Video pushbutton OS	Mini OS	Modular video OS
					
Type	**Monoblock**	**Monoblock**	**Monoblock**	**Monoblock**	**Modular**
Recommended application	Commercial building Multi apartment building Luxury villa	Commercial building Multi apartment building Single/two family home	Luxury villa Single/two family home	Multi apartment building* Single/two family home	Flexible all type of buildings
Video	HD 720p	HD 720p	HD 720p	SD 480p	HD 720p
Detection angles	Horizontal: 111° Vertical: 73° Diagonal: 130°	Horizontal: 111° Vertical: 73° Diagonal: 130°	Horizontal: 111° Vertical: 73° Diagonal: 130°	Horizontal: 86° Vertical: 73° Diagonal: 104°	Horizontal: 111° Vertical: 73° Diagonal: 130°
Weather protection	IP54	IP54	IP54	IP54	IP54
Impact protection	IK07	IK07	IK07	IK07	IK07
User interface	Touch	Keypad or pushbotton	Keypad	Pushbutton	Pushbutton
Flush Mounting	●	●	●	●	●
Surface Mounting	●	●	●	●	●
Maximum number of IS	No limits	No limits	No limits	3	2
Door opening by transponder	●	●	●	●	●
Keypad opening	●	●	●		
Speech synthesiser	●	●	●	●	●

* Used as apartment outdoor station in combination with the main building outdoor stations.

IP video outdoor station

ABB-Welcome IP - Video outdoor stations

Shared features:

- Type of installation: SM or FM
- IP54: dustproof & waterproof
- IK07: vandal proof
- Super anti-fog coating and built-in heater
- LED indicator for real-time status
- Integrated RFID Reader (MIFARE® DESFire® EV1 & EV2) for door opening



Touch 5” series

Video outdoor station with 5-inch touch screen, integrated with transponder and keypad. Serves as end device for the communication with IP touch panel, guard unit or property management.

- Intuitive operable touchscreen & virtual keypad integrated
- Advertising or Developer promotion display area
- Name list / logo / physical address / logical address calling type
- Wiegand output available
- HD video streaming (720p) with 130-degree angle
- Dimensions: 349 x 135 x 29 mm / 13.7 x 5.3 x 1.1 inch

Version	**Brushed stainless steel** ■	**White** ■
Article no.	H81381T-S	H81381T-W
Order no.	2TMA130010X0009	2TMA130010W0013



Pushbutton series

Video outdoor station with transponder and pushbutton(s) serves as end device for the communication with IP touch panel, guard unit or property management.

- Bar and around pushbutton for optional
- Pushbutton could be programmed as you want (switch on lighting, call indoor station or guard unit)
- Bright back-lit ensures clear nameplate at nighttime
- HD video streaming (720P) with 130-degree angle
- Dimensions (SM): 277 x 135 x 29 mm / 11 x 5.3 x 1.1 inch

Version	**Brushed stainless steel** ■	**1 pushbutton**	**2 pushbuttons**	**3 pushbuttons**
Article no.		H81381P1-S	H81381P2-S	H81381P3-S
Order no.		2TMA130010X0001	2TMA130010X0002	2TMA130010X0003
Version	**White** ■	**1 pushbutton**	**2 pushbuttons**	**3 pushbuttons**
Article no.		H81381P1-W	H81381P2-W	H81381P3-W
Order no.		2TMA130010W0021	2TMA130010W0025	2TMA130010W0029

IP video outdoor station

ABB-Welcome IP - Video outdoor stations



Keypad series

Video outdoor station with display, transponder and keypad serves as end device for the communication with IP touch panel, guard unit or property management.

- Physical address / logical address calling type
- Wiegand output available
- HD video streaming (720P) with 130-degree angle
- Dimensions: 349 x 135 x 29 mm / 13.7 x 5.3 x 1.1 inch

Version	Brushed stainless steel ■	with ID	with IC
Article no.		H81383K-S	H81384K-S
Order no.		2TMA130010X0037	2TMA130010X0038
Version	**White** □	**with ID**	**with IC**
Article no.		H81381K-W	H81382K-W
Order no.		2TMA130010W0033	2TMA130010W0037



Mini series

Aluminum alloy, up to 2 locks connections.

- Compact size
- Integrated status display and optionally ID card reader
- Light switch or calling guard programmable for the 2nd button
- Camera resolution: 640 x 480 px
- Dimensions (SM): 168 x 99 x 26,5 mm / 6.6 x 3.9 x 1 inch
- Dimensions (FM): 180 x 105 x 43 mm / 7 x 4.1 x 1.7 inch

Version	SM	1 pushbutton, with ID	2 pushbuttons, with ID	-
Article no.		H81313P1-A	H81313P2-A	-
Order no.		2TMA130010A0001	2TMA130010A0004	
Version	**FM**	**1 pushbutton, with ID**	**2 pushbuttons, with ID**	**1 pushbuttons without ID**
Article no.		H81363P1-A	H81363P2-A	H81364P1-A
Order no.		2TMA130010A0007	2TMA130010A00010	2TMA130010A0013

Create your own outdoor station

According to your needs and wishes

Flush-mounted solution (FM)



Pre- installation box
(optional)



FM box
3



Moduls
2



Frame
1



FM Rain Hood
(optional)

Surface-mounted first generation (SM)



FM box
3



Moduls
2



Frame
1



Weather Cover

Surface-mounted second generation (SM)



SM box
3



Moduls
2



Frame
1



SM Rain Hood
(optional)

Audio-video modules

Installation details for first & second generations

First generation audio-video modules	Flush-Mounted	Surface-Mounted	LOCK-GND	NO-NC-COM
 Camera Module	•	+Weather Cover		
 Audio Module	•	+Weather Cover	•	•
 Audio Module (1 button)	•	+Weather Cover	•	•
 Audio Module (2 buttons)	•	+Weather Cover	•	•

Second generation audio-video modules	Flush-Mounted	Surface-Mounted	LOCK-GND	NO-NC-COM
 Audio/Video Module 130	•	•	•	•
 Audio-Video Module 180	•	•	•	•
 Audio Module 2nd gener.	•	•	•	

2-wire modules

ABB-Welcome - Outdoor station modules

2-wire modules:
These modules can be used with Welcome 2- wire.



Audio modules - 1st generation (primary module)
The primary module establishes communication with the system control center by a 2-wire connection. Each outdoor station always requires one primary module.

- 3 LED indicators for operation status indications: call established / system busy, communication possible and door unlocked
- One lock can be directly connected without independent power supply for the lock
- Addictional terminal for second lock is available
- Lock release time and speaker volume are adjustable
- On button versions: different mode setting is possible such as 1 call or 2 calls in one row, call guard or switching light for the first or second button.
- Integrated optica sensor for day / night mode
- Dimensions: 97 x 72 x 38 mm / 3.8 x 2.8 x 1.5 inch
- Type of installation: SM (only with new weather covers) or FM

Version	No button	1 button	2 buttons
Article no.	M251021A-A	M251022A-A	M251023A-A
Order no.	2TMA070150A0002	2TMA070150A0003	2TMA070150A0004



Camera modules - 1st generation

- Video color camera with large detection angle (H 86°, V 67°, D 104°) and manually mechanical adjustment (H ± 15° ,V ± 15°), built-in infrared lighting ensures clear picture and comfortable to eyes at night and hidden surveillance from video indoor station
- Optional to connect one additional analog camera for surveillance inside the video indoor station
- Dimensions: 97 x 72 x 41 mm / 3.8 x 2.8 x 1.6 inch
- Type of installation: SM (with weather covers 4102.WC-A) or FM

Article no.	M251021C
Order no.	2TMA070150N0038



Fingerprint module
Fingerprint module is one access control module of video/audio outdoor station

- Enables the opening of the door using a finger scanner
- 64 users can be taught in
- Programming directly on the module or using PC management software (requires 2-wire adaptor M2308)
- Rating current: 24 V DC, 40 mA
- Dimensions: 97 x 72 x 28 mm / 3.8 x 2.8 x 1.1 Inch
- Type of installation: SM or FM
- Operating temperature: -40 °C...+55 °C

Version	White	Stainless steel	Aluminum
Article no.	51381FP-W	51381FP-S	51381FP-A
Order no.	2TMA200160W0004	2TMA200160X0003	2TMA200160A0025

2-wire modules

ABB-Welcome - Outdoor station modules

2-wire primary modules

The primary module establishes communication with the system control center by a 2-wire connection. Each outdoor station always requires one primary module.

Common technical details:

- LED indicators for operation status indications: call established / system busy, communication possible and door unlocked
- Power supply for door opener (LOCK - GND): 18 V DC, 4 A impulse, max. 250 mA holding
- Support to release the lock by pressing local exit button
- Operating temperature: -40 °C...+55 °C
- Single-wire/fine-wire clamps: 2 x 0.28 mm^2...2 x 0.75 mm^2
- Connects to ABB-Welcome door communication by 2-wire cable



Audio module - 2nd generation

Audio module is compulsory for audio outdoor station composition

- One lock can be directly connected without independent power supply for the lock
- Lock release time is adjustable
- Enable/disable outdoor station's acoustic feedback when pressing button
- Manage the working mode and functionality of pushbutton outdoor station
- Operating current: 24 V DC, 120 mA
- Standby current: 24 V DC, 8 mA
- Dimensions: 97 x 72 x 28 mm / 3.8 x 2.8 x 1.1 Inch
- Type of installation: SM or FM

Article no.	M251381A-A
Order no.	2TMA200160A0001



Audio/video module - 2nd generation

Audio/video module is the heart of video outdoor station

- Built-in infrared lighting ensures clear picture and comfortable to eyes at night and hidden surveillance from video indoor station.
- Anti-fog design with built-in heater ensures clear image even in wet conditions.
- One lock can be directly connected without independent power supply for the lock.
- Additional terminal for second lock is available.
- Easy to set default lock by one dip-switch
- Lock release time and speaker volume are adjustable.
- Integrated optic sensor for day / night mode.
- Enable/disable outdoor station's acoustic feedback when pressing button
- Manage the working mode and functionality of pushbutton outdoor station
- Induction loop functionality is possible on Article M251382M when assembeing with stainless steel frame
- Dimensions: 143 x 72 x 28 mm / 5.6 x 2.8 x 1.1 inch
- Operating current: 24 V DC, 200-230 mA
- Standby current: 24 V DC, 60 mA
- Image sensor: CMOS sensor 1/3.2"
- Resolution: 550 TV lines, effective pixels 1297 (H) x 977 (V)
- Detection angle: H 100°, V 70°, D 130°
- Camera Standard :PAL/NTSC
- Floating output for door opener (COM -NC - NO): 30 V AC/DC, 1 A

Version	Standard	T-loop with speech synthesis
Article no.	M251381M	M251382M
Order no.	2TMA200160N0043	2TMA200160N0044

IP modules

ABB-Welcome - Outdoor station modules

IP modules:
These modules can be used only with Welcome-IP.

Common technical details:
- Dimensions: 143 x 96 x 23 mm/ 5.6 x 3.8 x 0.9 inch
- Type of installation: SM or FM



A/V module with 720P camera, Lan cable
Audio & video modules as the heart of outdoor station
- HD video streaming (720P) with 130 degree angle
- Super anti-fog coating and in-built heater
- LED indicater for real-time status
- Suitable for the disabled

Article no.	H851381M-S
Order no.	2TMA130160B0081



Big display module
Integrated with transponder and keypad serves as big touch screen fro daily operation for residential owners and visitors
- Intuitive operable touchscreen & Virtual keypad integrated
- Advertising or Developer promotion display area
- Name list / logo / physical address / logical address calling type
- Opeing of the door by DESFire or NFC or IC card

Version	**5 inch & IC/DESfire**
Article no.	H851381DP
Order no.	2TMA130160B0082

Standard modules

ABB-Welcome/ABB-Welcome IP - Outdoor station modules

Functional modules:
These modules can be used with both Welcome 2- wire and Welcome-IP.

Common technical details:
- Dimensions: 97 x 72 x 25 mm/ 3.8 x 2.8 x 1 inch
- Type of installation: SM or FM
- Operating temperature: -40 °C...+55 °C



Round pushbutton
1/2/3 pushbutton for visitor to press for calling
- Pushbutton could be programmed as you want (switch on lighting, call indoor station or guard unit)
- Bright back-lit ensures clear nameplate at night time
- Opening of the door by DESFire or NFC or IC card
- Rating current: 24 V DC, 10 mA/ for NFC version 24 V DC, 40 mA

Version	1 button	2 buttons	3 buttons
Article no.	51381RP1	51381RP2	51381RP3
Order no.	2TMA130160N0003	2TMA130160N0004	2TMA130160N0005
Version	**1 button with NFC/IC**	**2 buttons with NFC/IC**	**3 buttons with NFC/IC**
Article no.	51382RP1	51382RP2	51382RP3
Order no.	2TMA130160N0006	2TMA130160N0007	2TMA130160N0008



Round pushbutton
3/6 or 4/8 pushbutton for visitor to press for calling
- Pushbutton could be programmed as one column or double columns
- Bright back-lit ensures clear nameplate at night time
- Rating current: 24 V DC, 8 mA

Version	3 bar buttons	4 bar buttons
Article no.	51381SP3	51381SP4
Order no.	2TMA130160N0001	2TMA130160N0002



Keypad with 1abc input
Digital inputing module for keyoad outdoor station
- Enable the opening of the door using a numerical code
- 3,000 customized passwords can be taught in
- Backlight automatically on for visibility at night
- Call guard unit is available
- Rating current: 24 V DC, 20 mA

Version	White	Stainless steel	Aluminum
Article no.	51381K-W	51381K-S	51381K-A
Order no.	2TMA130010W0014	2TMA130160X0001	2TMA210160A0009

Standard modules

ABB-Welcome/ABB-Welcome IP - Outdoor station modules



Display

The display module ensures that the personalised message, code and number can be read

- Physical address / logical address calling type
- Up to 5000 pcs cards can be registrered
- Opening of the door by DESFire or NFC or IC card
- Wiegand output available
- Rating current: 24 V DC, 160 mA

Version	ID Card	IC/DES fire card
Article no.	51381CR	51382CR
Order no.	2TMA130160N0010	2TMA130160N0009



Info module

Info module is used to hold the address of the building or the resident directory and assembled in outdoor station

- Stamped labelling foil is enclosed
- Backlight ensures clear visibility at night
- Rating current: 24 V DC, 8 mA

Article no.	51381DN
Order no.	2TMA200160N0039



Dummy module

Dummy module is one blank module, support to put 3rd-party module inside, also support to future function module replacement

- Maximum space inside 54.5 x 9.4 x 74 mm / 21.5 x 0.37 x 2.9 inch

Article no.	51381DM
Order no.	2TMA200160N0040

Letter box modules

ABB-Welcome - Alternative modules

Letter box modules:
For the integration into letter boxes and bell systems of different manufacturers.



Camera module

- The cutout must be created by the manufacturer
- Extended audio module assembly with video function
- Video camera with automatic day/night switchover and infrared LEDs to illuminate the night shots
- Installed heating to keep the lens free of condensation
- Vertical/horizontal detection angle: 86°/67°
- Setting angle horizontal/vertical: +/-15°, mechanically adjustable
- Dimensions: 126 x 68 x 31 mm / 5 x 2.7 x 1.2 inch

Article no.	83501-101-500-01
Order no.	2TMA070150N0043



Audio integration unit

- Makes audio communication possible with also adjustable volume
- Built-in relay for operating the door opener
- 8 inputs for connecting the doorbell push-switches
- With interface for the connection of built-in keypad extensions and of the camera module
- Dimensions: 68 x 126 x 31 mm / 2.7 x 5 x 1.2 inch

Version	EU	Non EU
Article no.	83110-500-01	83110-500-02
Order no.	2TMA070150N0042	2TMA210010N0037



Extension unit

- Extends the built/in audio module assembly by a further 12 binary inputs
- The built-in audio module can be extended to a maximum of 99 inputs for doorbell push-switches with the aid of the built-in keypad extension
- With interface for the connection of built-in keypad extensions
- Dimensions: 68 x 50 x 24 mm / 2.7 x 2 x 0.9 inch

Version	EU	Non EU
Article no.	83111-500-02	83111-500-01
Order no.	2TMA210010N0038	2TMA070120N0027

Door entry system

ABB-Welcome/ABB-Welcome IP - Frames and installation material

2 types of outdoor station frame:



Audio outdoor station frame
Suitable for audio/video modules of 1st generation



Video outdoor station frame
Suitable for audio/video modules of 2nd generation

Module/Column	Type of frame	Color	Article no	Order no.	Dimensions
1 module	Audio	Aluminum	41391CF-A	2TMA220160A0003	119 x 135 x 20 mm 4.6 x 5.3 x 0.8 inch
2 modules in 1 column	Audio	Aluminum	41392CF-A	2TMA200160A0011	205 x 135 x 20 mm 8.1 x 5.3 x 0.8 inch
	Audio	Anthracite	41392CF-B	2TMA220161B1001	
3 modules in 1 column	Audio ●	Stainless steel	41393CF-S	2TMA130160X0060	277 x 135 x 20 mm 10.9 x 5.3 x 0.8 inch
	Audio ●	Aluminum	41393CF-A	2TMA200160A0013	
	Audio	Anthracite	41393CF-B	2TMA220161B1002	
	Video	White	41383CF-W	2TMA130160W0002	
	Video	Stainless steel	41383CF-S	2TMA130160X0004	
	Video	Aluminum	41383CF-A	2TMA200160A0003	
	Video	Anthracite	41383CF-B	2TMA220161B1004	
4 modules in 1 column	Audio ●	Stainless steel	41394CF-S	2TMA130160X0064	349 x 135 x 20 mm 13.7 x 5.3 x 0.8 inch
	Audio ●	Aluminum	41394CF-A	2TMA200160A0015	
	Audio	Anthracite	41394CF-B	2TMA220161B1003	
	Video	White	41384CF-W	2TMA130160W0003	
	Video	Stainless steel	41384CF-S	2TMA130160X0005	
	Video	Aluminum	41384CF-A	2TMA200160A0005	
	Video	Anthracite	41384CF-B	2TMA200160A0005	
5 modulesin 1 column	Audio	Aluminum	41395CF-A	2TMA200160A0017	421 x 135 x 20 mm 16.6 x 5.3 x 0.8 inch
	Video	White	41385CF-W	2TMA130160W0004	
	Video	Stainless steel	41385CF-S	2TMA130160X0007	
	Video	Aluminum	41385CF-A	2TMA200160A0007	
	Video	Anthracite	41385CF-B	2TMA220161B1006	
6 modules divided in 2 columns	Video	Stainless steel	41386CF-S	2TMA130160X0007	277 x 235 x 20 mm 10.9 x 9.2 x 0.8 inch
	Video	Aluminum	41386CF-A	2TMA200160A0009	
8 modules divide in 2 columns	Audio	Aluminum	41398CF-A	2TMA220161A0008	349 x 235 x 20 mm 13.7 x 9.2 x 0.8 inch
	Video	Aluminum	41388CF-A	2TMA220161A0010	
10 modules divide in 2 columns	Audio	Aluminum	413910CF-A	2TMA220161A0009	421 x 235 x 20 mm 16.6 x 9.2 x 0.8 inch
	Video	Aluminum	413810CF-A	2TMA220161A0011	

● It is possible to combine the frame of the same size for a multi-column installation to support more modules.

Mounting boxes

ABB-Welcome/ABB-Welcome IP - Installation material

3 types of boxes:



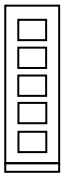
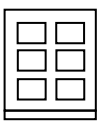
Surface-mounted box
for mounting of outdoor station on the wall.



Flush-mounted box
for mounting of outdoor station into the wall. This box is fitted with knock down holes for cabling from left, right, or back.



Pre-installation box
for flush-mounting of outdoor station into the wall for higher stability.

Frame size	Type of installation	Color	Article no.	Order no.
	Surface-mounted	Anthracite ■	41381S-B	2TMA130160B0009
	Surface-mounted	Grey ■	41381S-H	2TMA130160H0009
	Flush-mounted	Anthracite ■	41381F-B	2TMA130160B0001
	Flush-mounted	Grey ■	41381F-H	2TMA130160H0001
	Pre-installation box	Anthracite ■	41381PB	2TMA130160B0017
	Surface-mounted	Anthracite ■	41382S-B	2TMA130160B0010
	Surface-mounted	Grey ■	41382S-H	2TMA130160H0010
	Flush-mounted	Anthracite ■	41382F-B	2TMA130160B0002
	Flush-mounted	Grey ■	41382F-H	2TMA130160H0002
	Pre-installation box	Anthracite ■	41382PB	2TMA130160B0018
	Surface-mounted	Anthracite ■	41383S-B	2TMA130160B00011
	Surface-mounted	Grey ■	41383S-H	2TMA130160H00011
	Flush-mounted	Anthracite ■	41383F-B	2TMA130160B0003
	Flush-mounted	Grey ■	41383F-H	2TMA130160H0003
	Pre-installation box	Anthracite ■	41383PB	2TMA130160B0019
	Surface-mounted	Anthracite ■	41384S-B	2TMA130160B00012
	Surface-mounted	Grey ■	41384S-H	2TMA130160H00012
	Flush-mounted	Anthracite ■	41384F-B	2TMA130160B0004
	Flush-mounted	Grey ■	41384F-H	2TMA130160H0004
	Pre-installation box	Anthracite ■	41384PB	2TMA130160B0020
	Surface-mounted	Anthracite ■	41385S-B	2TMA130160B00013
	Surface-mounted	Grey ■	41385S-H	2TMA130160H00013
	Flush-mounted	Anthracite ■	41385F-B	2TMA130160B0005
	Flush-mounted	Grey ■	41385F-H	2TMA130160H0005
	Pre-installation box	Anthracite ■	41385PB	2TMA130160B0021
	Surface-mounted	Anthracite ■	41386S-B	2TMA130160B00014
	Surface-mounted	Grey ■	41386S-H	2TMA130160H00014
	Flush-mounted	Anthracite ■	41386F-B	2TMA130160B0006
	Flush-mounted	Grey ■	41386F-H	2TMA130160H0006
	Pre-installation box	Anthracite ■	41386PB	2TMA130160B0022

Rain Hood and Weather Cover

ABB-Welcome/ABB-Welcome IP - Installation material

3 types of covers:



Rain hood (SM)
designed to adapt surface-mounted (SM) box



Rain hood (FM)
designed to adapt flush-mounted (FM) box



Weather cover
designed for full weather surface mounting, in combination with FM boxes

Modules/Column	Type of cover	Color	Article no.	Order no.
n/1	Rain hood (SM)	Aluminum ■	41381S-B	2TMA130160B0009
n/1	Rain hood (FM)	Aluminum ■	41381S-H	2TMA130160H0009
1/1	Weather cover	Aluminum ■	41381F-B	2TMA130160B0001
2/1	Weather cover	Aluminum ■	41381F-H	2TMA130160H0001
3/1	Weather cover	Aluminum ■	41381PB	2TMA130160B0017
4/1	Weather cover	Aluminum ■	41382S-B	2TMA130160B0010
n/2	Rain hood (SM)	Aluminum ■	41382S-H	2TMA130160H0010
n/2	Rain hood (SM)	Aluminum ■	41382F-B	2TMA130160B0002
4/2	Weather cover	Aluminum ■	41382F-H	2TMA130160H0002
n/3	Rain hood (SM)	Aluminum ■	41382PB	2TMA130160B0018

Boxes dimensions

Modules/Column	Surface-mounted box	Flush-mounted box
1/1	137 x 133 x 32 mm 5.4 x 5.2 x 1.25 inch	137 x 133 x 52 mm 5.4 x 5.2 x 2 inch
2/1	203 x 133 x 32 mm 8 x 5.2 x 1.25 inch	203 x 133 x 52 mm 8 x 5.2 x 2 inch
3/1	275 x 133 x 32 mm 10.8 x 5.2 x 1.25 inch	275 x 133 x 52 mm 10.8 x 5.2 x 2 inch
4/1	347 x 133 x 32 mm 13.6 x 5.2 x 1.25 inch	347 x 133 x 52 mm 13.6 x 5.2 x 2 inch
5/1	419 x 133 x 32 mm 16.5 x 5.2 x 1.25 inch	419 x 133 x 52 mm 16.5 x 5.2 x 2 inch
6/1	275 x 233 x 32 mm 10.8 x 8.7 x 1.25 inch	275 x 233 x 52 mm 10.8 x 8.7 x 2 inch

Covers dimensions

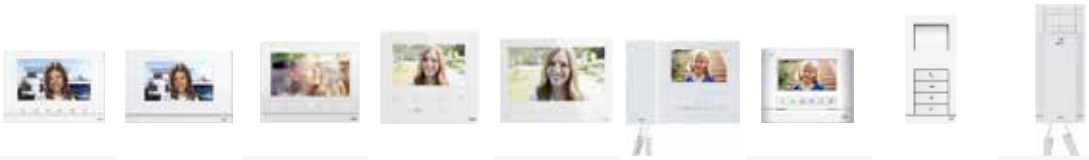
Modules/Column	Rain hood (SM)
n/1	98 x 143 x 68 mm 3.8 x 5.6 x 2.7 inch
n/2	275 x 233 x 32 mm 10.8 x 8.7 x 1.25 inch
n/3	275 x 233 x 32 mm 10.8 x 8.7 x 1.25 inch

Covers dimensions

Modules/Column
1/1
2/1
3/1
4/1
4/2

Door entry system

ABB-Welcome - 2-wire indoor stations



	free@home Touch 7”	Smart Touch 7”	Video Indoor Station 7” Touch	Video Indoor Station 4.3 WiFi	Video Indoor Station 7”	4.3” video handset	Basic 4.3” hands-free	Audio hands-free	Audio handset
Video	●	●	●	●	●	●	●		
Color	White, Black	White, Black	White, Black	White	White	White	White	White, Black, Silver	White
Screen Size	7”	7”	7”	4.3”	7”	4.3”	4.3”		
Video Surveillance call	●	●	●	●	●	●	●		
Door bell call	●	●	●	●	●	●	●	●	●
Image call history	●	●	●	O[1]	●	●	O[4]		
Variable ringtone		●	●	●	●	●	●	●	●
Automatic unlock	●	●	●	●	●	●	●	●	●
Mute one or mute all	●	●	●	●	●	●	●	●	●
Open multiple doors			●	●	●	●	●		●
InterCom	●	●	●	O[2]	●	●	●		
Room to Room Home to Home Guard Unit Call	●	●	●	O[2]	●	●	●		●
Black list for InterCom calls	●	●	●	O[1]	●	●	●		
Induction loop	●	●	●	●	●	●	●		●
3rd party camera integration	●	●	●	●	●	●	●		
Welcome App Integration	●	●	O[3]	●	O[3]	O[3]	O[3]		
Paging/Broadcast	●	●	●						
Customized ringtone from SD		●	●						
Video record	●	●	●						
Custom audio away message	●	●	●						
Call forwarding	●	●	●			●			
Smart home integration	●	●							
Device Interfaces									
SD card	●	●	●						
Wifi integrated				●					
Local power supply				●		●	●		
Installation	Surface and table mounting	Surface, flush and table mounting	Surface, flush and table mounting	Flush mounting	Flush mounting	Surface and table mounting	Surface and table mounting	Surface mounting	Surface mounting
Firmware update through Internet				●					
Firmware update by SD-Card	●	●	●	●					

Notes:
1. Shown in the Welcome App
2. Configured through Welcome App
3. Additional IP gateway needed (83342)
4. With Induction Loop

Door entry system

ABB-Welcome - 2-wire video indoor stations



free@homeTouch 7”

For the central control of up to 16 configurable smart home functions per page and display of the video image of an outdoor door communication station. During the conversation a picture of the visitor can be taken and stored in the picture memory. For door calls during absence three pictures of the visitor are automatically stored in the picture memory. The bus can be connected via enclosed terminal block.

- Easy operation keys for door openers, mute function and light
- Volume adjustable
- SD card slot for extension of the picture memory
- Suitable as room temperature controller extension unit
- Type of installation: only SM for free@home, FM or SM for KNX
- Display size 178 mm (7”)
- Display resolution: 800 x 480 px
- Display elements: TFT Touch
- Display protection class (Device): IP 30
- Dimensions: 155 x 218 x 29 mm / 6.1 x 8.6 x 1.1 inch

Version	White	Black ■
Article no.	DP7-S-611	DP7-S-625
Order no.	2CKA008300A0356	2CKA008300A0357



SmartTouch 7”

Free programmable KNX touch display as a control, notification and operation center for the entire house. Works as a video indoor station with the ABB-Welcome Door Entry System. During the conversation a picture of the visitor can be taken and stored in the picture memory. For the display and operation of the following KNX standard functions: switching, dimming, slider, blind, RGBW LED control, step switch, RTC, scene switch, display element, audio control. With scene and logic functions, presence simulation and time programs. Displays alerts and malfunctions. Available with induction loop for connecting to hearing aid devices. Programmable with up to 16 functions per page.

- Type of installation: Surface-mounted or flush-mounted
- Display size 178 mm (7”)
- Display resolution: 1024 x 600 px
- External power supply: 20-32 V DC (SELV) or through the ABB-Welcome bus

Version	White	Black ■
Article no.	6136/07-811-500	6136/07-825-500
Order no.	2CKA006136A0205	2CKA006136A0206



Surface Mounting box for SmartTouch 7''

- Standard flush mounted wall box VDE & BS
- Flush mounted installation box (6136/UP) or
- To be mounted directly on the wall
- To be mounted on the ABB-Welcome table stand

Version	White	Black ■
Article no.	6136/27-811-500	6136/27-825-500
Order no.	2CKA006136A0209	2CKA006136A0210



Flush Mounting box for SmartTouch 7'''

- Windproof
- FM dimensions: 152 x 235 x 60 mm / 6 x 9.2 x 2.4 inch
- Hollow wall dimensions: 146 x 227 x 50 mm / 5.7 x 8.9 x 2 inch

Article no.	6136/07 UP-500
Order no.	2CKA006136A0212

Door entry system

ABB-Welcome - 2-wire video indoor stations



Video Indoor Station 7" Touch

The 7" panel is the new member of ABB-Welcome indoor world. It has touch screen with glass surface material. 7.8 mm thickness after flush mounted makes this new panel more fashion than ever. It can be surface-mounted, flush-mounted, desktop installation to fit all your needs. The new panel has 5 keys to control main video door entry functions: accept the call, door release, programmable button, mute, surveillance. In-build LED shows the missed call, auto-unlock status, and mute status.

- Display and record the video image from outdoor station or external cameras
- Different bell sounds adjustable for door and floor ringing, five different bell sounds available
- Possibility to play your favorite ringtone from SD card
- Leave message to family members or visitors when out of home
- Automatic unlock function
- Internal call to other users living in the apartment or neighbors
- Call concierge if guard unit is ready in the system Send SOS alarm to guard unit
- Induction loop in all the versions
- 7" capacitive touchscreen
- Display resolution: 1024 x 600 px 198 x 162 x 17 mm / 7.8 x 6.4 x 0.7 inch

Version	Article no.	Order no.	EU (excluding DE, CH)	CH	RU, USA, others (excluding CN)
Black ■	M22381-B	2TMA220050B0004			●
	M22381-B-02	2TMA220050B0008	●		
	M22381-B-04	2TMA220050B0010		●	
White □	M22381-W	2TMA220050W0007			●
	M22381-W-02	2TMA220050W0015	●		
	M22381-W-04	2TMA220050W0017		●	

Door entry system

ABB-Welcome - 2-wire video indoor stations



Video indoor station 4.3" series, WiFi

New 2-wire video indoor station with integrated WiFi to connect mobile APP without additional system devices. Minimalistic & intuitive user interface makes the operation simply enough. 6 touch buttons are easy for operation and one side button to adjust volume, ringtone, brightness and others. You can also accept the call, open the door lock, make a surveillance, and firmware updating and additional activations from the Welcome APP.

- Intuitive button layout, separate “call” & “unlock” button, to avoid mis-operation on small size panel
- Network/WiFi connection & parameters of panel can be configured through Welcome APP following wizard design
- APP pairing process is easy enough to scan QR code for first mobile devices, and click “pair” button for additional mobile devices with same MyBuildings account login
- Up to 8 mobile devices can be paired with one panel through same MyBuildings account
- Cyber security and data privacy
- Remote firmware update through Welcome APP
- Intuitive GUI on 4.3” IPS screen (resolution: 480 x 272 px)
- Type of installation: SM
- Dimensions: 122 x 131 x 18 mm / 4.8 x 5.2 x 0.7 inch

Version	White	With induction loop-White	CH only
Article no.	M22401-W	M22403-W	M22401-W-04
Order no.	2TMA220050W0022	2TMA220050W0024	2TMA200051W0001



Video indoor station 7”

Video Indoor Station with 7" non-Touch Display and additional 6 quick access touch Buttons. The ideal entry-level solution for the video door intercom system. Supports up to 5 Intercom and 5 universal switch functions through simple quick access button. Supports simple & fast Surface mounting installation with an intuitive user interface.

- Display of the video image of the outdoor station. During the conversation a picture of the visitor can be taken and stored in the picture memory
- Quick access touch buttons for door opener, mute, virtuall buttons and video surveillance
- Easy access for up to 5 virtual Intercom entries
- Easy access for up to 5 programmable switch functions
- Supporting Camera-Interface to connect external Cameras
- 7" non-Touch Display (resolution: 1024x600 px)
- Type of installation: SM (metal bracket included)
- Dimensions: 138 x 184 x 19 mm / 5.4 x 7.2 x 0.7 inch

Version	White	With induction loop-White
Article no.	M22411-W	M22413-W
Order no.	2TMA210051W0001	2TMA210051W0002



Flush-mounted box and Pre-installation box for 7” video indoor station”

- The FM box is fitted with knock down holes for cabling from the left, right, bottom or back
- The product is packed with accessories to endure qualified installation

Article no.	42361F
Order no.	2TMA130160B0132

Door entry system

ABB-Welcome - 2-wire video indoor stations



4.3" video handset series, color display

Slim indoor station with handset (depth of 45 inches). 6 touch film buttons for communication, unlocking, mute, programmable button (can be set as intercom, call guard unit, etc.), surveillance and setting.

- 4.3" color display with on screen display
- 2 photos of the visitor will be automatically stored in the picture memory for door calls during resident‘s absence (up to 50 photos)
- Call transfer among different apartments and guard unit is available
- Automatic unlock function
- 5 ringtones for different call sources, i.e. from default outdoor station, secondary outdoor station, doorbell, intercom or guard unit
- The detailed user manual can be downloaded through scanning the QR code on the screen
- Type of installation: SM or desktop mounting (desktop bracket 42311D is needed)
- Dimensions: 144 x 198 x 45 mm / 5.6 x 7.8 x 1.8 inch

Version	Article no.	Order no.	EU (excluding DE, CH)	RU, USA, others (excluding CN)
White	M22302-W	2TMA070020W0055		●
	M22302-W-02	2TMA210050W0005	●	
With induction loop* - White	M22303-W	2TMA070020W0056		●
	M22303-W-02	2TMA210050W0006	●	



Basic 4.3" hands-free series

Basic indoor station with 6 touch film buttons for communication unlocking, mute, programmable button (can be set as intercom, call guard unit, etc.), surveillance and setting.

- Automatic unlock function
- 5 ringtones for different call sources, i.e. from default outdoor station, secondary outdoor station, doorbell, intercom or guard unit. The ringtone can be fixed or cycled
- The detailed user manual can be downloaded through scanning the QR code on the screen
- Type of installation: SM or desktop mounting (desktop bracket 42311D is needed)
- Dimensions: 154 x 134 x 23 mm / 6 x 5.3 x 0.9 inch

Version	Article no.	Order no.	EU (excluding DE, CH)	RU, USA, others (excluding CN)
White	M22341-W	2TMA070020W0060		●
	M22341-W-02	2TMA210050W0013	●	
	M22344-W	2TMA070020W0080		● (USA only)
With induction loop* - White	M22343-W	2TMA070020W0061		●
	M22343-W-02	2TMA210050W0014	●	



Flush-mounted box for 4.3” video hands-free indoor station

- Metal box for FM 4.3” video hands-free indoor stations
- Dimensions: 145 x 125 x 27 mm / 5.7 x 4.9 x 1 inch

Article no.	42311F
Order No.	2TMA070130A0017



Desktop bracket

- Full metal design with brushed finish base, suitable for 7" all touch, 4.3" hands-free video indoor station, 4.3" handset video indoor station and guard unit
- 125 x 107 x 134 mm / 5 x 4.2 x 5.3 inch

Article no.	42311D
Order No.	2TMA070130N0189

Door entry system

ABB-Welcome - 2-wire audio indoor stations



Audio hands-free

Hands-free indoor station with 4 buttons. The light button can be customized as room-to-room intercom, call guard unit.

- Different bell tones for door-call and floor-call, choice of five different bell sounds
- The ringtone can be fixed or cycled
- Floor-call function, a connected button functions as a floor-call button: all indoor stations with the same address trigger a floor call
- Type of installation: SM
- Dimensions: 178 x 81 x 22 mm / 7 x 3.2 x 0.9 inch

Version	Article no.	Order no.	EU (excluding DE, CH)	RU, USA, others (excluding CN)
White	83210 AP-624-500-01	2TMA020020W0064		●
	83210 AP-624-500-02	2TMA210050W0016	●	
Black ■	83210 AP-681-500-01	2TMA070020B0034		●
	83210 AP-681-500-02	2TMA210050B0005	●	
Silver ■	83210 AP-683-500-01	2TMA070020S0006		●
	83210 AP-683-500-02	2TMA210050S0004	●	



Audio handset

Handset indoor station with 3 or 6 buttons.

- 1 easy pushbutton for unlock, and 2 additional buttons for self-setting functions, e.g. intercom, door status check, second lock release or even calling the security guard, etc.
- Max-mid-mute volume adjuster on the side
- 2 LEDs to indicate different working status
- 5 ringtones for different call sources, i.e. from default outdoor station, secondary outdoor station, doorbell, intercom or guard unit
- The activating or deactivating of automatic unlock can be made by simply pressing the unlock button for 10 seconds
- Type of installation: SM
- Dimensions: 175 x 81 x 22 mm / 6.9 x 3.2 x 0.9 inch

Version	Article no.	Order no.	EU (excluding DE, CH)	RU, USA, others (excluding CN)
3 buttons	M22002-W	2TMA070020W0054		●
	M22002-W-02	2TMA210050W0001	●	
3 buttons with induction loop	M22003-W	2TMA070020W0062		●
	M22003-W-02	2TMA210050W0002	●	
6 buttons	M22001-W	2TMA070020W0063		●
	M22001-W-02	2TMA210050W0003	●	



Handset with induction loop

- Suitable for audio handset indoor station with induction loop and 4.3" video handset indoor station with induction loop
- 144 x 53 x 23 mm / 5.7 x 2 x 0.9 inch

Article no.	52303HS-W
Order No.	2TMA070020W0065

Door entry system

ABB-Welcome IP - Video indoor stations - comparision

IP touch 10” and IP touch 7”
The stylish multifunctional IP touch panel fits elegantly into any interior. Thanks to its intuitive design, the IP touch panel will display everything that is happening in front of your door. In addition, the panel can be a centralized screen for other ABB sub-system, like CCTV, access control and home automation.

Shared features:
- Extension to App without additional system device
- Central control panel to DES, Surveillance, Home automation (KNX &free@home)
- Cyber security and data privacy
- Clean & consistent design with invisible mic & speaker hole• Slim thickness with 7.8 mm when flush mounted
- Color, material, End trip & mounting type selectable
- Easy installation in all kind of walls
- Easy commissioning by QR code scanning or central PC management software
- PoE and local power supply optional
- Remote firmware update
- PoE in all the versions

		IP touch 10 	**IP touch 7** 
Technical features	Audio		
	Video	●	●
	Touch screen	●	●
	Display size	10"	7"
	Induction loop	●	●
	KNX controls	Max. **8 pages** Max. **100 control frames** total	Max. **8 pages** Max. **64 control frames** total
	free@home controls	Max. **4 pages** Max. **100 control frames** total	Max. **4 pages** Max. **64 control frames** total
Mounting type	Flush mounting	●	●
	Surface mounting	●	●
	Desktop mounting		
	Cavity wall set		
Other features	Image history list	●	●
	Cyclical surveillance	●	●
	ABB Welcome APP integration	●	●
	Manual call	●	●
	Room to room call	●	●
	Home to home call	●	●
	Call guard unit	●	●
	Variable ringtone	●	●
	Power supply	Both PoE and direct local	Both PoE and direct local
	Firmware remote update	●	●
	Inbuilt IP-Gateway	●	●
	SD card		
	Automatic unlock function	●	●

Door entry system

ABB-Welcome IP - Video indoor stations



IP touch 10

- Intuitive GUI on sliding screen (1024 x 600 px)
- Dustproof and waterproof as IP30
- Type of installation: SM or FM - depending on the version
- Induction loop in all the versions
- Stainless steel end strip
- Dimensions (LAN + LAN): 251 x 185 x 30 mm / 9.9 x 7.3 x 1.2
- Dimensions (LAN + WiFi): 251 x 185 x 17 mm / 9.9 x 7.3 x 0.7

	Version	Black ■	White □	Flush Mounting (FM)	Surface Mounting (SM)
+	**Article no.** **Order no.**	H8237-5B 2TMA130050B0055	H8237-5W 2TMA130050W0055	●	
+	**Article no.** **Order no.**	H8237-4B 2TMA130050B0054	H8237-4W 2TMA130050W0054	●	●



Surfece-mounted box for IP touch panel10”

Mounting of IP Touch 10” on the wall

- For surface-mounted installation of indoor station
- The product is packed with accessories to ensure qualified installation
- Dimensions: 251 x 184 x 14 mm / 9.9 x 7.2 x 0.5 inch

Version	White □	Black ■
Article no. **Order no.**	42371S-W 2TMA130161W0001	42371S-B 2TMA130161B0001



Flush-mounted box & Pre-installation box for IP touch 7”&10”

Flush-mounted box and Pre-installation box for IP 7&10 inch video indoor station

- The flush mounting box is fitted with knock down holes for cabling from left, right, bottom or back
- The product is packed with accessories to ensure qualified installation
- Dimensions: 194 x 145 x 55 mm / 7.6 x 5.7 x 2.2 inch, 2 boxes together

Article no. **Order no.**	42361F 2TMA130160B0132

Door entry system

ABB-Welcome IP - Video indoor stations



IP touch 7

- Intuitive GUI on sliding screen (1024 x 600 px)
- Dustproof and waterproof as IP30
- Type of installation: SM or FM - depensing on the version
- Induction loop in all the versions
- Stainless steel end strip
- Dimensions (LAN + LAN): 199 x 150 x 30 mm / 7.8 x 5.9 x 1.2
- Dimensions (LAN + WiFi): 199 x 150 x 17 mm / 7.8 x 5.9x 0.7

	Version	Black ■	White □	Flush Mounting (FM)	Surface Mounting (SM)
+	**Article no.** **Order no.**	H8236-5B 2TMA130050B0067	H8236-5W 2TMA130050W0067	●	
+	**Article no.** **Order no.**	H8236-4B 2TMA130050B0065	H8236-4W 2TMA130050W0065	●	●





Surfece-mounted box for IP touch panel 7”

Mounting of IP Touch 7” on the wall

- For surface-mounted installation of indoor station
- The product is packed with accessories to ensure qualified installation
- Dimensions: 197 x 148 x 13 mm / 7.7 x 5.8 x 0.5 inch

Version	White □	Black ■
Article no. **Order no.**	42361S-W 2TMA130160W0017	42361S-B 2TMA130160B0080



Flush-mounted box & Pre-installation box for IP touch 7” & 10”

Flush-mounted box and Pre-installation box for IP 7&10 inch video indoor station

- The flush mounting box is fitted with knock down holes for cabling from left, right, bottom or back
- The product is packed with accessories to ensure qualified installation
- Dimensions: 194 x 145 x 55 mm / 7.6 x 5.7 x 2.2 inch, 2 boxes together

Article no. **Order no.**	42361F 2TMA130160B0132

Door entry system

ABB-Welcome - System devices





System controller

- Two version available: Standard system controller & mini system controller
- As the “brain” of the individual system, it manages the communication between the outdoor station and the indoor station
- Two working modes : “all on” and “one on”
- If in “all on” mode, and the apartment contains more than 1 video indoor station, all the screens in the apartment will be on while only one is on if in “one on” mode
- It can also serve as auxiliary BUS power supply when connected to gateway in certain mode
- 1 LED for normal working condition indication
- Overheat, short-circuit and lightening protection
- Dimensions (standard version): 90 x 72 x 65 mm / 3.5 x 2.8 x 2.5 inch
- Dimensions (mini version): 90 x 72 x 65 mm / 3.5 x 2.8 x 2.5 inch

Version	Standard 1.2A output, MDRC 8U, with lower consumption in “one on” mode
Article no.	M2300-101
Order no.	2TMA210161W0001
Pack Qty	1/10

Version	Mini 0.65A output, MDRC 4U, with lowerconsumption in “one on” mode
Article no.	M2301-101
Order no.	2TMA210161W0002
Pack Qty	1/10



Gateway

- It offers 5 different modes which can be set by dip switch: apartment gateway, floor gateway, building gateway, auxiliary BUS power supply interface and line amplifier
- Dimensinos: 90 x 72 x 65 mm / 3.5 x 2.8 x 2.6 inch

Article no.	M2302
Order no.	2TMA070060W0006
Pack Qty	1/10



IP Gateway & ABB-Welcome App

- The installation of the ABB-Welcome App enables to use smartphones and tablets (iOS and Android) as virtual video indoor station
- Both WIFI and remote access under 3G/4G through internet service provider.
- IP Gateway acts as a PC interface to program the telephone gateway more efficiently
- Enables the integration with ABB Comfort touch as indoor station
- Supports to monitor multi-cameras connected with camera interface
- Supports intercom calls, including home to home & room to room call by ABB-Welcome App
- Supports to communicate with guard unit by ABB-Welcome App
- Supports to control relay actuator, and one actuator can be activated during the call if necessary by ABB-Welcome App
- Supports to control two locks during the call by ABB-Welcome App
- Supports to make a SOS call if there is emergency by ABB-Welcome App
- Notification function of App is always available: while App is open in the foreground, background or even closed totally
- Dimensions: 90 x 180 x 65 mm / 3.5 x 7 x 2.5 inch

Article no.	83342-500-01
Order no.	2TMA020060H0008
Pack Qty	1/24

Door entry system

ABB-Welcome - System devices



Din rail adaptor

- One DIN rail adaptor fit for all the flush mounted devices: video distributor, switch actuator, and camera interface
- Adjustable and consistent looking cover can be taken out if needed
- Dimensions: 90 x 72 x 65 mm / 3.5 x 2.8 x 2.5 inch

Article no.	53001DR
Order no.	2TMA070150H0001
Pack Qty	1/10



Camera interface

- Supports up to 4 analog 3rd party cameras for one device
- Supports camera connection to the existing video/audio outdoor station
- Supports transfer of image from guard unit to the indoor station
- Supports the camera for viewing the area of the floor (for example with the connection from indoor station to this interface, where it connects to the analog camera
- Supports input and output of video signal of outdoor station to 3rd party VDR during the call, which can be viewed from the video indoor station)
- Supports installation in DIN, surface mounted
- Dimensinos: 77 x 61 x 25 mm / 3 x 2.4 x 1 inch

Article no.	83327-500-01
Order no.	2TMA070150B0007
Pack Qty	1/18



Video distributor

- This compact device supports 4-way outputs connected to different apartments or different high-rise buildings
- Flush-mounted into box or surface mounted through the hole in the middle, or DIN rail mounted via DIN adaptor (Article no. 53001DR)
- Dimensions: 45 x 45 x 26 mm / 1.7 x 1.7 x 1 inch

Article no.	M2304
Order no.	2TMA070070B0006
Pack Qty	1/18



Video outdoor distributor

- Used for buildings with more than 1 outdoor station
- 2-way inputs are connected to different outdoor stations
- Dimensions: 90 x 36 x 65 mm / 3.5 x 1.4 x 2.5 inch

Article no.	83325/2-500-01
Order no.	2TMA020070N0011
Pack Qty	1/20



BNC connector

- Used to connect the external camera to the camera interface or outdoor station's camera module
- The connector accepts a BNC plug connection directly
- Dimensions: 42 x 15 x 14 mm / 1.6 x 0.6 x 0.6 inch

Article no.	55001BC
Order no.	2TMA070180N0012
Pack Qty	1/10

Door entry system

ABB-Welcome - System devices



Switch actuator

- This compact device has 3 working modes: extend door bell, door opener and time relay
- Local pushbutton can be connected as control input
- The switching duration of unlock or switching on lightings is adjustable
- Flush-mounted or DIN rail mounted via DIN adaptor (Article no. 53001DR)
- Dimensions: 51 x 51 x 29 mm / 2 x 2 x 1.1 inch

Article no.	M2305
Order no.	2TMA070150B0006



Guard unit

- 4.3" touch screen and 6 touch film buttons can ensure the communication with calls from outdoor station, indoor station or other guard unit (if any)
- It can be manually or automatically set into intercept mode to increase security level for all users or only certain individuals
- Surveillance can be done through the camera of outdoor stations or integrated analog camera
- Missed calls and alarm messages stored in the memory can be reviewed
- It can be surface mounted on the wall or desktop mounted (desktop bracket 42311D is needed)
- Dimensinos: 144 x 198 x 45 mm / 5.6 x 7.8 x 1.7 inch

Article no.	M2303
Order no.	2TMA070030W0007
Pack Qty	1/15





Lift control module

- Enhance security to allow authorized visitor/resident to ONLY go to the designated floor while unauthorized visitor can not activate any floor button in the lift
- Efficient programming through PC by dedicated commissioning software
- Each module supports up to 16 floors, total up to 16 modules can be cascaded
- Dimensions of relay mode: 216 x 110 x 45 mm / 8.5 x 4.3 x 1.7 inch
- Dimensions of M adaptor: 90 x 72 x 65 mm / 3.5 x 2.8 x 2.5 inch

Version	Relay module	M adaptor (2 functions: PC adaptor and lift control module)
Article no.	M2307	M2306
Order no.	2TMA070150N0044	2TMA070100N0001
Pack Qty	1/30	1/10



2-wire adaptor

- Supports to connect PC with management software into 2-wire DES system
- PC management software supports centralized management of user card no. /user names/logic addresses, registration/deletion/change
- Supports the building system without floor system
- PC management software records system logs, e,g unlock log, SOS log
- PC management software supports to configure lift control modules
- Dimensions: 90 x 180 x65 mm / 3.5 x 7 x 2.5 inch

Article no.	M2308
Order no.	2TMA210160N0003
Pack Qty	1/24

Door entry system

ABB-Welcome - System devices







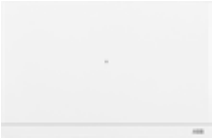
External camera

- Analogue camera solutions for the camera interface from the ABB-Welcome range
- Three types are optional for different application, normal camera/dome camera/mini dome camera
- Image Sensor: 1/3” 1.3MP SONY Exmor CMOS
- Effective Pixels: 1305(H)×1049(V)
- Resolution: 700TVL
- Horizontal detection angle: 30°- 90° (manually adjustable for video camera & dome camera); 75°(fixed for mini dome camera)
- S/N Ratio: ≥50 dB
- Min. illumination (Day): 0.1 Lux @ F2.0
- Min. illumination (Night): 0 Lux @ F2.0
- Video signal: 1 x CVBS, 1Vpp, 75 Ohm (BNC)
- White Balance: AWB, 1 800 K – 10 800 K
- Lens: 2.8-12 mm (manually adjustable for video camera & dome camera); 3.6 mm (fixed for mini dome camera)
- IR Range: 50m (video camera), 40m (dome camera), 30m (mini dome camera)
- Input Voltage: DC 12 V +/- 10%
- Dustproof and waterproof as IP 66
- Dimensions Video camera: 286 x 86 x 77 mm / 11.3 x 3.4 x 3 inch
- Dimensions Dome camera: 130 x 119 x 104 mm / 5.1 x 4.7 x 4 inch
- Dimensions Mini dome camera: 105 x 94 x 83 mm / 4.1 x 3.7 x 3.3 inch

Version	Video camera	Dome camera	Mini dome camera
Article no.	83550/1-500-01	83550/2-500-01	83550/3-500-01
Order no.	2TMA210160N0006	2TMA210160N0007	2TMA210160N0008
Pack Qty	1/4	1/12	1/12

Door entry system

ABB-Welcome IP - System devices



Smart Access Point Pro

A central management device of AccessControl and Welcome IP, it can couple as sub-system, and also manage interworking of multiple sub-system of same type. Commissioning and remote control is executed via web interface. No additional commissioning software is required. Connection to the network via WLAN client mode or via CAT cable to manage all your access, configure all your devices, record your logs, etc.

- Easy to commissioning
- Access rights for full management
- Enhanced security with record event log and receive notification and alert
- Manage all connected devices
- Interaction between different systems
- Manage welcome App
- Event management and building-wide messaging
- Integrated chimey, easy for retrofit
- In-build BLE, the best choice for standalone AC system
- Dimensions: 204 x 132 x 32 mm / 8 x 5.2 x 1.25 inch
- Network parameter:
  - Operating mode:
    LAN/Wireless access point
  - Wireless transmission band:
    IEEE 802.11 a/b/g/n 2.4 GHz/5.8 GHz
  - Safety standard: WPA-PSK, WPA2-PSK, WPA, WPA2, IEEE 802.1x
  - Network connection standard:
    10 / 100 Mbps, auto MDI/MDI-X
- Radio interface: IEEE 802.15.4 2.4GHz radio
- Power supply:
  - 24VDC, together with ABB power adaptor
  - PoE(Power over Ethernet)
- Environment:
  - Temperature: -10 °C to +45 °C
  - Protection type: IP30
  - Vandal proof: IK07
  - Humidity: 0 to 95%, non-condensing

Article no.	D04011
Order no.	2TMA400260W0002

Door entry system

ABB-Welcome IP - System devices



Guard unit

The guard unit with desk-top design provides access to various services using the intuitive icon menu on the touch screen. Communication is possible with IP touch panel, outdoor station and other guard unit.

- Support to establish surveillance to outdoor station or IP camera
- Intercept to increase the security and service
- Support to release all doors or dedicated doors in case of emergency
- Receive the alarm and panic call (SOS) from IP touch panel
- Dimensions: 265 x 165 x 117 mm / 10.4 x 6.5 x 4.6 inch

Article no.	H8303
Order no.	2TMA130160W0018



Inerface module for LAN + RS485 + 11 alarm zones

Interface module use to extend LAN port, RS485 port, and alarm zones

- LAN port for private and public network
- Channels relay output
- 1 channel 485 output
- 12 V DC, 200 mA output
- Dimensions: 82 x 60 x 17 mm / 3.2 x 2.4 x 0.7 inch

Article no.	52361EX
Order no.	2TMA130160B0136



IP actuator (LAN port)

Connecting electrical door opener or hall light directly

- Easy to adjust the switching duration of unlock or the switching of light
- Dimensions: 90 x 70 x 65 mm / 3.5 x 2.7 x 2.5 inch

Version	**Grey** ■
Article no.	H8304
Order no.	2TMA130160H0051



24 VDC mini Power adaptor

Power adaptor supplies the power for IP touch panels and Welcome IP Access Point Pro

- Provide stable power supply input
- Dimensions: 44 x 72 x 60 mm / 1.7 x 2.8 x 2.4 inch

Version	**includes plug-adaptors for EU, UK, US, CN, AU**
Article no.	53012PS
Order no.	2TMA130160W0024



Power supply

Power adpator suppliers the power for system devices

- 27 V DC, 81 W
- Support over voltage, over current, over-heat and short-circuit protection
- Dimensions: 178 x 90 x 65 mm / 7 x 3.5 x 2.5 inch

Version	**includes plug-adaptors for EU, UK, US, CN, AU**
Article no.	YSM01-PS
Order no.	2TMA130160H0085

Door entry system

ABB-Welcome/ABB-Welcome IP - Accessories



ID card

- 125 KHz
- ISO18000-2

Version	Proximity key fob	Proximity badge
Article no.	51021F-L	51021B
Order no.	2TMA070180L0001	2TMA070180N0002



IC card

- 13.56 MHz
- ISO14443A

Proximity key fob	Yellow	Red	Blue
Article no.	51022F-Y	51022F-R	51022F-L
Order no.	2TMA070180Y0001	2TMA070180R0001	2TMA070180L0002



New Proximity key fob

- Dimensions: 201 x 131 x 70 mm / 7.9 x 5.1 x 27 inch

Version	ID card, white	ID card, black	IC card, white	IC card, black
Article no.	51023F-W	51023F-B	51024F-W	51024F-B
Order no.	2TMA070180W0001	2TMA070180B0001	2TMA070180W0002	2TMA070180B0002



New ID/IC stickers

- Dimensions: 25 x 25 x 0,6 mm / 1 x 1 x 0.02 inch

Version	ID sticker	IC sticker
Article no.	51021S	51022S
Order no.	2TMA070180N0033	2TMA070180N0034



Proximity badge, IC card

- Dimensions: 40 x 31 x 5 mm / 1.6 x 1.2 x 0.2 inch

Article no.	83173-500-01
Order no.	2TMA070180N0027



Label holder for round pushbutton module

- Label holder for the round pushbutton module, with stamped labelling
- Contains one support frame and two extension support frames

Article no.	83161-500-01
Order no.	2TMA070180N0011

Door entry system

ABB-Welcome/ ABB-Welcome IP - Accessories

Labelling sheet, A4

- Quality labelling sheet for nameplate
- Easy to be printed and cut
- Waterproof
- Size 2/5, 210 x 297 mm / 8.2 x 11.7 inch

Version	A4	1/3 height, A4	1/4 height, A4	for roundpush botton module, A4
Article no.	51021L	51022L	51023L	51024L
Order no.	2TMA070180N0004	2TMA070180N0005	2TMA070180N0006	2TMA070180N0010



Cushion set for surface-mounted installation

Spare part for surface mounting when the installation cable lay on the wall

- Easy to install
- Dimensions: 15 x 10 x 5 mm / 0.6 x 0.4 x 0.2 inch

Article no.	52311C
Order no.	2TMA210160W0001



Joining fixture

Joining fixture used when more than one flush mounted box needs to be connected together

- Easy to integrate mounting boxes together
- Dimensions: 120 x 83 x 80 mm / 4.7 x 3.3 x 3.1 inch

Article no.	51381J
Order no.	2TMA130160B0124



Mounting tool

The mounting tool use to dismoute the outdoor station

- Easy to install and removal end strip
- Dimensions: 165 x 14 x 26 mm / 6.5 x 0.5 x 1 inch

Article no.	51381MT
Order no.	2TMA130160B0025



Outdoor station End-strip

End-strip for outdoor station cover frame

- Easy to install and replace
- Size 1 dimensions: 135 x 19 x 16 mm / 5.3 x 0.7 x 0.6 inch
- Size 1 dimensions: 235 x 19 x 16 mm / 9.2 x 0.7 x 0.6 inchh

Version	Size 1	White	Stainless steel
Article no.		51381EP-W	51381EP-S
Order no.		2TMA130160W0001	2TMA130160X0002
Version	**Size 2**	**Stainless steel**	**Aluminum**
Article no.		51382EP-S	51382EP-A
Order no.		2TMA130160X0003	2TMA130160A0023

Door entry system

ABB-Welcome - Accessories



Jumper

- Jumper set for audio / video handset indoor stations is used to set the address, master / slave indoor station and RC on / off of indoor stations
- Dimensions: 120 x 80 x 10 mm / 4.7 x 3.1 x 0.4 inch

Version	for audio handset indoor station	for 4.3" video handset indoor station
Article no.	52001J	52301J
Order no.	2TMA070180N0008	2TMA070180N0007
Pack Qty	1/10	1/10



Cavity wall set

- For cavity wall mounting of the flush-mounted wall box
- For outdoor station and 4.3” video hands-free
- Dimensions: 120 x 80 x 10 mm / 4.7 x 3.1 x 0.4 inch

Article no.	51021CS
Order no.	2TMA070180N0001
Pack Qty	1/18

Door entry system

ABB-Welcome - Family home video kits



- Mini video outdoor station, 1 pushbutton, aluminum, with ID card reader
- Video Indoor Station 7" Touch

Including:
- Mini system controller
- Proximity key fob, ID card, white
- Proximity key fob, ID card, black
- Pre-installation box with FM version

	Non EU		EU	
Version	**SM**	**FM**	**SM**	**FM**
Article no.	M20421	M20422	M20421-02	M20422-02
Order no.	2TMA220310N0002	2TMA220310N0004	2TMA220310N0003	2TMA220310N0005



- Mini video outdoor station, 1 pushbutton, aluminum, with ID card reader
- Video Indoor Station 7"

Including:
- Mini system controller
- Proximity key fob, ID card, white
- Proximity key fob, ID card, black

Version	**SM**	**FM**
Article no.	M20491	M20492
Order no.	2TMA220301N0001	2TMA220311N0002



- Mini video outdoor station, 1 pushbutton, aluminum, with ID card reader
- Video Indoor Station 4.3”, Wi-Fi, white

Including:
- Mini system controller
- Proximity key fob, ID card, white
- Proximity key fob, ID card, black
- Pre-installation box with FM version

Version	**SM**	**FM**
Article no.	M20481	M20482
Order no.	2TMA210311N0002	2TMA210311N0003



- Mini video outdoor station, 1 pushbutton, aluminum, with ID card reader, surface-mounted installation
- Basic 4.3”, hand-free indoor station, white, with induction loop

Including:
- Mini system controller
- Proximity key fob, ID card, white
- Proximity key fob, ID card, black
- ID sticker

Version	**Non EU**	**EU**
Article no.	M20363	M20363-02
Order no.	2TMA070140N0061	2TMA210310N0020



- Mini video outdoor station, 1 pushbutton, aluminum, with ID card reader, surface-mounted installation
- Basic 4.3” video hand-free indoor station, white

Including:
- Mini system controller

Version	**Non EU**	**EU**
Article no.	M20361	M20361-02
Order no.	2TMA070140N0060	2TMA21310N0018



- Mini video outdoor station, 2 pushbutton, aluminum, surface-mounted installation
- 2 x Basic 4.3” video hand-free indoor station, white

Including:
- Mini system controller

Version	**Non EU**	**EU**
Article no.	M20362	M20362-02
Order no.	2TMA070140N0079	2TMA070140N0087

Door entry system

ABB-Welcome - Family home video kits



- Audio outdoor station, 1 pushbutton, aluminum, flush-mounted installation
- Audio handset indoor station, 3 buttons, white

Including:
- Mini system controller
- Flush-mounted box

Article no.	M20021
Order no.	2TMA210311N0004



- Video outdoor station, 1 button, aluminum, flush-mounted installation
- 4.3” color video handset indoor station, white

Including:
- Mini system controller
- Flush-mounted box

Article no.	M20441
Order no.	2TMA210311N0005



- Video outdoor station, 1 button, aluminum, flush-mounted installation
- 4.3” video hands-free indoor station, white

Including:
- Mini system controller
- Flush-mounted box

Article no.	M20451
Order no.	2TMA210311N0006



- Video outdoor station, 1 button, aluminum, flush-mounted installation
- 7” video hands-free indoor station, white

Including:
- Mini system controller
- Flush-mounted box

Article no.	M20461
Order no.	2TMA210311N0007



- Video outdoor station, 1 button, aluminum, flush-mounted installation
- Video Indoor Station 4.3”, Wi-Fi, white

Including:
- Mini system controller
- Flush-mounted box

Article no.	M20471
Order no.	2TMA210311N0001

Electrical installation solutions for buildings
Intrusion Alarm Systems

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You may also visit our Intrusion alarm systems website:

Intrusion alarm systems
Intrusion Systems – We make buildings safe and secure



ABB combines reliable alarm technology with easy-to-use home and building automation technologies. This allows the entire system to react directly in cases of emergency. The ABB offer includes a perfect solution: alarm panels, arming modules and alarm sensors (glass break sensors, motion detectors and more). The security system can be connected to building automation systems to become a smarter solution.
We offer reliable Intrusion Alarm Systems for intrusion-, hold-up- and technical alarms. The intrusion alarm systems are conform to the requirements of EN 50131.

Highest safety & security in case of an alarm
If an alarm is triggered, lights can be switched on and shutters can be opened as an additional deterrent. Even when you're at home, ABB solution can, for example, ensure the peripheral protection of your house and, in the event of an alarm, also switch on lights together with the siren and open the shutters.

Being safe at home, even when the alarm system is not activated
Imagine the following: you are at home, some intruders may try to gain access at night or using unwatched entrances. The alarm system is switched off. You can activate the panic function by a press of a button: lights switch on, blinds roll up.

Increased comfort and safety
By disarming the security system, the system switches the lights on in the entrance area and sets the heating to comfort mode. All the security sensors, such as those for water, gas, and smoke are active at all times. If there is an alarm, they control useful functions such as sockets, shutters and lights.

ABB-secure@home
Securing peace of mind

Whether at home or out and about, you and your loved ones can go about your daily activities knowing you don't have to worry about unwelcome intruders or dangerous incidents any time of day or night.

Unobtrusive simplicity
Installing and commissioning ABB-secure@home is straightforward and simple. Thanks to interference-proof and professional wireless devices it won't damage any existing brickwork or wall finishes. It has an intuitive architecture and is easy to manage via its smart central unit, dedicated remote control or remotely, from your smartphone or tablet.

360° freedom
ABB-secure@home offers comprehensive security, protecting your home, day and night, both inside and out. Not only from intruders but also unfortunate events such as floods and fires. Being a highly evolved system, it's completely customizable to suit your individual lifestyle.

—

With ABB-secure@home security and simplicity are within easy reach.



All-round protection
Both indoors and out

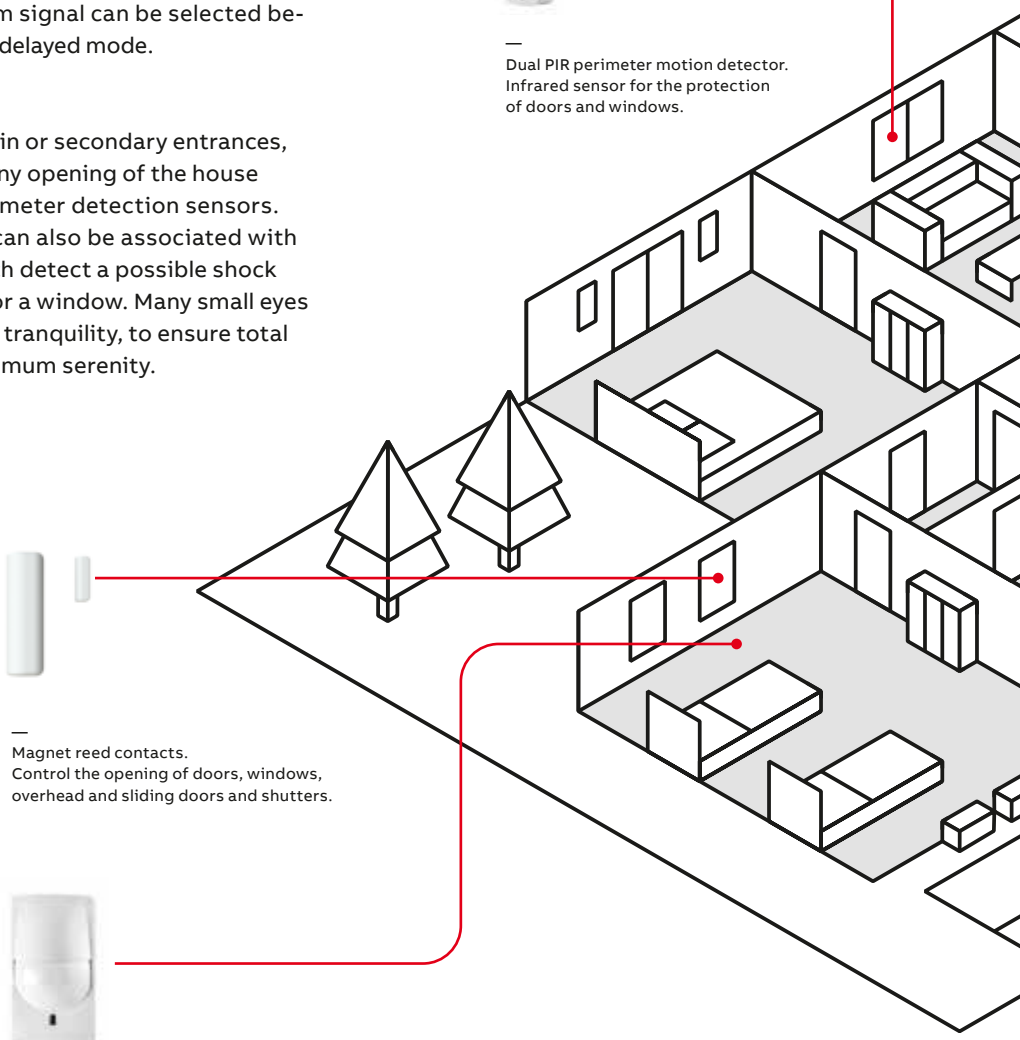
Security starts outside and continues inside your home. Your peace of mind is guaranteed by comprehensive protection and monitoring solutions.

Volumetric detection
Any movement, any presence inside the house is detected by volumetric sensors. They are located in strategic points and are equipped with different coverage lenses according to specific needs, and they will automatically adjust to changes of the environmental conditions and provide adjustable sensitivity. The alarm signal can be selected between the instant or delayed mode.

Opening detection
Windows, doors, main or secondary entrances, shutters or blinds, any opening of the house is controlled by perimeter detection sensors. The contact safety can also be associated with inertial devices which detect a possible shock occurred on a door or a window. Many small eyes stand guard on your tranquility, to ensure total protection and maximum serenity.



—
Dual PIR perimeter motion detector.
Infrared sensor for the protection of doors and windows.



—
Magnet reed contacts.
Control the opening of doors, windows, overhead and sliding doors and shutters.

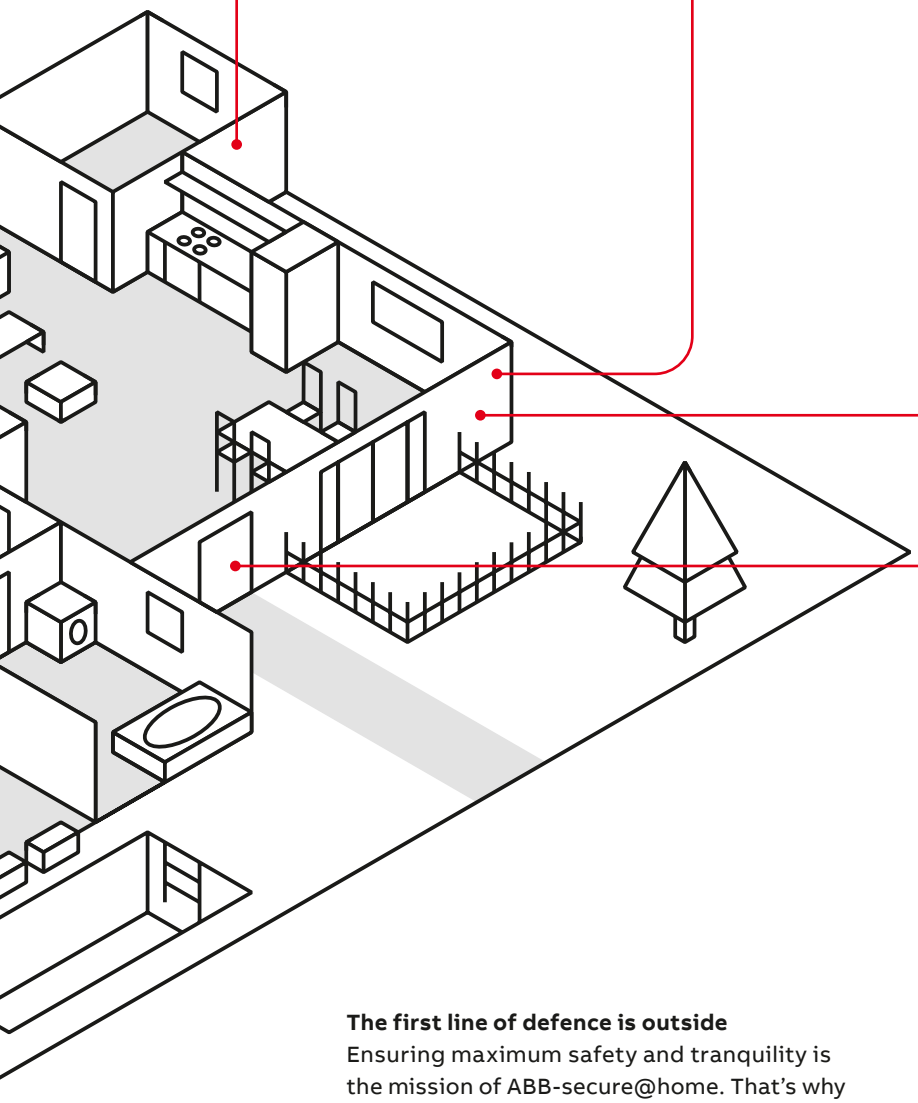
—
Passive infrared detector with volumetric lens.
Automatically adjusts to changing environmental conditions.



—
Outdoor dual PIR motion detector.
Installation on wall or pole,
for controlling the building's
external areas.



—
Outdoor dual PIR motion
detector for height.
For controlling the building's
external areas, to be installed
at a height of 2.5 to 3 m.





—
Compact dual PIR perimeter
motion detector.
Compact size and attractive
look. For external control of
the building's perimeter.



—
Perimeter bidirectional dual
PIR motion detector.
For external control of the
building's perimeter, ideal for
the protection of doors
and windows.

The first line of defence is outside
Ensuring maximum safety and tranquility is the mission of ABB-secure@home. That's why the system is not limited to ensuring the safety inside your home, but also its external spaces with sophisticated sensors ready to watch over every corner of the property and to detect any unwelcome presence, even before it approaches the building.

Wrapped in safety
The infrared sensors are positioned in the outdoor spaces, in the garden and around the entire house perimeter: bidirectional detectors, door/window detectors, main or secondary entrances: a professional wireless technology can monitor the perimeter of any building in an accurate and punctual manner.

Hassle-free security
Simple integration that simply works

Imagine an intuitive, state-of-the-art security system that works with wireless technology and fits directly into your home design with minimum fuss. With ABB-secure@home, imagination becomes reality.

No wires, no problems
ABB-secure@home is a highly evolved system that's easy to install into inhabited, furnished homes and existing designs. Its use of wireless radio frequency technology minimizes invasiveness and disturbances during installation and when your system needs change in the future, it will adapt with them.

Safety and plug-and-play protection
With the connection to ABB-free@home® you have access to your system wherever you are. The ABB-secure@home configuration is immediate. Once installed and turned on, the sensors are automatically recognized by the central unit. The parameters are fully customizable according to your customers' needs. Then just press OK and you're done!



State-of-the-art technology
At the heart of everything we do

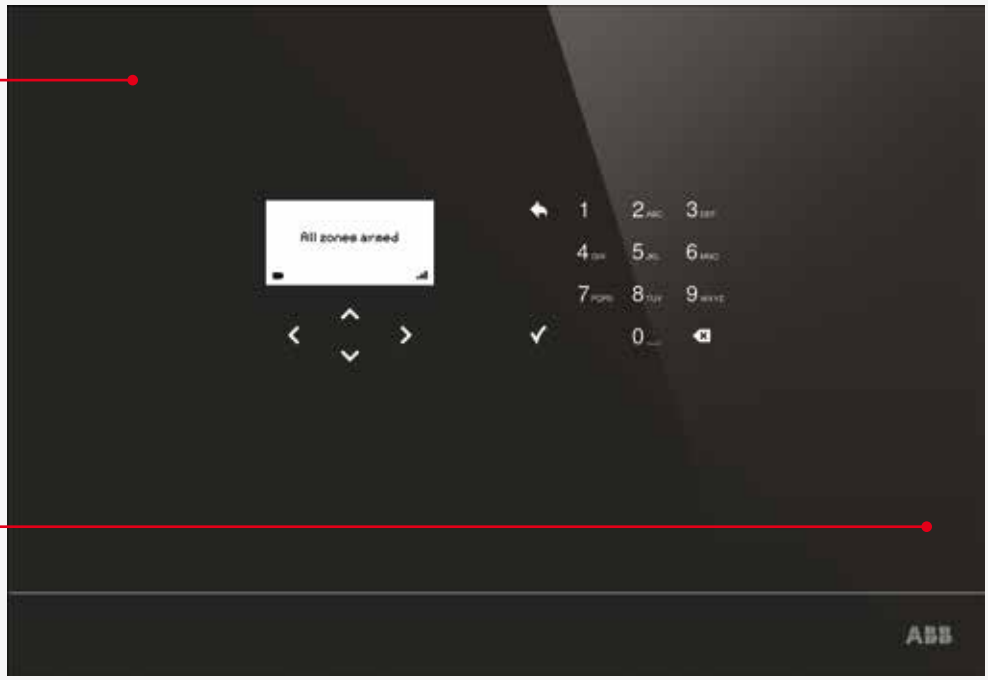
A processor and an integrated GSM (Global System for Mobile Communications) interface are at the heart of ABB-secure@home. This technology will protect your most valuable assets and itself from external tampering and interference.

Smart radio, maximum security
The wireless ABB-secure@home system transmits and receives at 868.3 MHz, making it able to distinguish and interpret signals with absolute precision. The bidirectional encrypted communication allows you to limit energy consumption and provide greater security during transmission, while everything is guaranteed by a proprietary protocol. Integrated CSMA (Carrier Sense Multiple Access) technology allows the optimisation of communication to avoid interference and disturbance. The alarm transmitter and receiver verify the absence of band occupancy, ensuring continuously successful communication.

A system that's always connected
The ABB-secure@home central unit is equipped with an integrated GSM interface through which each alarm is immediately sent via voice calls and/or SMS to all programmed telephone numbers.

868.3 MHz bidirectional encrypted proprietary protocol plus a unique rolling code for all arming/disarming controls

Integrated GSM module for sending alarms via voice call or SMS



Beautiful flexibility
Stylish remote controls

Technology and design are always in harmony with ABB-secure@home. Each control device is built with a clear intention to please at first glance.

Comfort in your hands
ABB-secure@home puts the power of your anti-intrusion system directly into your hands in the most simple way possible: with a stylish plug-and-play remote control. Four keys are already full configured and one is freely configurable, but in case of need also the four keys can be re-configured. The most common functions are assigned to the four preconfigured keys, to arm the intrusion zones in Home Stay or Home Away mode, to disarm all the anti-intrusion zones, and also to launch a panic alarm.

A remote control that manages everything
A lightweight object with heavyweight power. The ABB-secure@home remote control allows you to operate your anti-intrusion system in the most simple way possible: using five keys and five LEDs, fully configurable. Each of them can be configured to arm or disarm anti-intrusion zones and special functions such as robbery alarm, panic alarm and first aid alarm. All this contained in an elegant, attractive design.



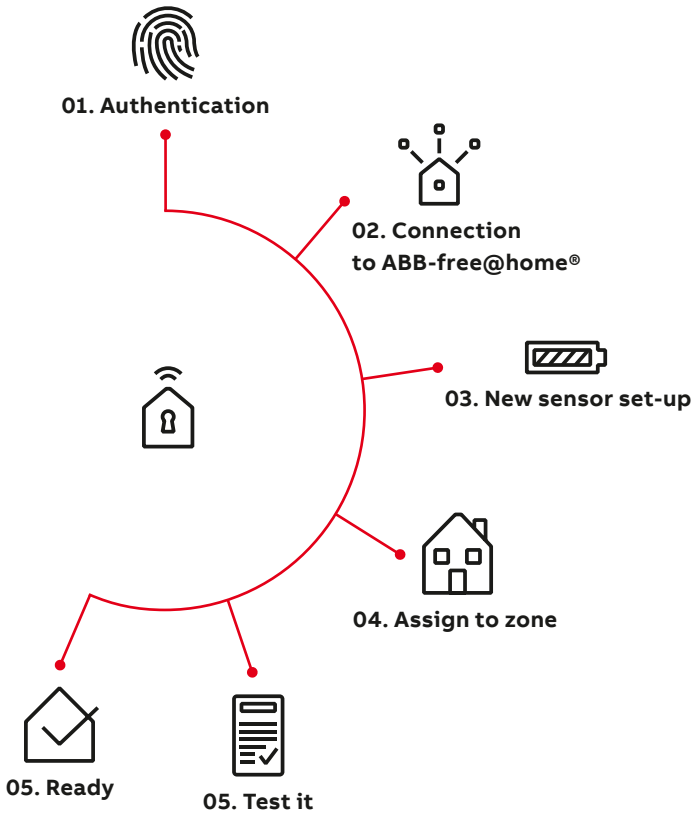




Security is a breeze
Programmable in a few steps

—
01 Authentication.
Once you have booted the system from the central unit, authenticate yourself as an installer.
—
02. Connection to ABB-free@home®.
If the central unit is connected to the free@home bus, you can pair the two systems just copying the shown key into the free@home dedicated menu.
—
03 New sensor set-up.
To power the sensor, connect the battery. The central unit registers the sensor automatically.
—
04 Assign to zone.
Choose the home zone to place the sensor or create new ones to assign it to.
—
05 Test it.
As you finish the initial set-up, the central unit automatically performs a sensor test and shows you a report to check everything is working properly.
—
06 Ready.
The initial set-up lets you also easily add notification and installer contacts, create the user PIN and assign the allowed zones.

When a system is well thought out, everything becomes easier, and configuring ABB-secure@home is just as easy as installing it.The initial set-up takes only a few simple steps and you are done. It saves you valuable working hours and will help you gain more customers, too.



Comfort through security
Within a fully integrated system

The residential security system, ABB-secure@home, is part of the ABB Smarter Home system alongside the ABB-free@home® home automation system, and the Welcome door entry system.





Easy remote control
Always in the know about what is happening at home. Via app you can check at any time whether all the windows are closed or if someone has forgotten to switch off the lights. This makes it possible to maintain control – even while on holiday.

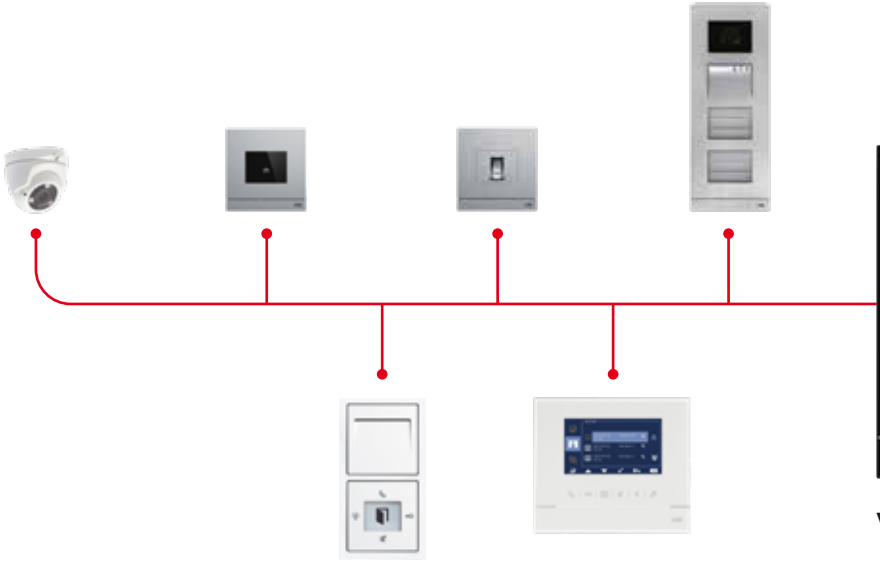


ABB-Welcome



Video indoor station

Central unit









ABB-secure@home



ABB-free@home®



System Access Point











Flexible security
A range of products around you

ABB-secure@home has what it takes to work with you, in exactly the way you want it to. A range of products stand ready to help make your project special and to offer your customers the safety and security they deserve.

System devices




— 01



— 02



— 03



— 04

Home safety



— 05



— 06



— 07

Indoor security



— 08



— 09



— 10



— 11



— 12



— 13

—
01 ABB-secure@home central units
—
02 Remote control
—
03 Pre-configured remote control
—
04 Outdoor alarm sirens
—
05 Smoke detector
—
06 Heat detector
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07 Water detector
—
08 Perimeter magnet reed contact detector
—
09 Dual passive IR perimeter motion detector
—
10 Indoor passive IR motion detector
—
11 Roller shutter sensor
—
12 Magnet reed contact for surface/flush mounting
—
13 Rolling door magnet reed contact



Outdoor security



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15



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16



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17



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18

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15 Compact dual passive IR perimeter motion detector
—
16 Outdoor dual passive IR motion detector
—
17 Perimeter bidirectional dual passive IR motion detector
—
18 Outdoor dual passive IR motion detector for height



Intrusion Alarm Systems

ABB-secure@home – Alarm Panels

Alarm Panels



SAS-W1.1E
SAS-W2.1E



SAS-W1.1F
SAS-W2.1F



SAS-W3.1E

Central Unit

The central unit is at the heart of the ABB-secure@home® system; it complies with EN 50131-1 grade 2 class I standard.
It communicates with other system devices based on radio frequency with two-way protocol, by making the following features available to the user:

- management of anti-intrusion and home safety devices;
- management of anti-panic signaling;
- alarm notification via voice or SMS messages to the programmed telephone numbers;
- interfacing ABB-free@home® to integrate safety and home automation systems (only SAS.W1 and SAS.W2 models).

The central unit, equipped with a backup battery, indicates a power failure and its subsequent recovery inside the home.
Via the integrated GSM unit, available into some specific models, it can send alarms both in speech synthesis and SMS messages, to a maximum of 12 telephone numbers. In addition, the GSM unit enables the reception of commands through SMS messages.
Spare rechargeable battery pack (Order code: 2CSY255111R0801).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
with GSM, Square, glass white	–	SAS-W1.1E	2CSY233921R0003		1.37	1
Basic, Square, glass white	–	SAS-W2.1E	2CSY245181R0004		1.37	1
with GSM, Square, glass black	–	SAS-W1.1F	2CSY233541R0003		1.37	1
Basic, Square, glass black	–	SAS-W2.1F	2CSY255461R0004		1.37	1
Basic, Round, white		SAS-W3.1E	2CSY234925R0005		1.37	1
Set of Central Unit thick support, white		SIM-W4.1A	2CSY230365R0609		0.1	2
Set of Central Unit thick support, black		SIM-W4.1F	2CSY230385R0609		0.1	2

Intrusion Alarm Systems

ABB-secure@home – Startkits



SAS-W1.1E



SAD-W1.1F



SMC-W1.1A



SMD-W1.1A

ABB-secure@home Startkit

The startkits represent the installation base for the solutions of extended system, containing all the basic devices usually common to any installation. They are easily expandable to fit any customer needs.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
Startkit GSM, white	–	SSK-W1.1E	2CSY295371R0051		4.87	1
It includes the following:						
Central Unit with GSM, Square	–	SAS-W1.1E	2CSY233921R0003		1.37	1
Preconfigured Remote Control, Square	–	SAD-W1.1F	2CSY202821R0305		0.07	1
Perimeter Magnet Reed Contact Detector	–	SMC-W1.1A	2CSY255791R0104		0.165	1
Indoor Passive IR Motion Detector	–	SMD-W1.1A	2CSY255701R0105		0.09	1

Intrusion Alarm Systems

ABB-secure@home – Startkits

ABB-secure@home Startkit

The startkits represent the installation base for the solutions of extended system, containing all the basic devices usually common to any installation. They are easily expandable to fit any customer needs.



SAS-W2.1E



SAD-W1.1F



SMC-W1.1A



SMD-W1.1A

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
Startkit Basic, white	–	SSK-W2.1E	2CSY295411R0050		4.87	1
It includes the following:						
Central Unit Basic, Square	–	SAS-W2.1E	2CSY245181R0004		1.37	1
Preconfigured Remote Control, Square	–	SAD-W1.1F	2CSY202821R0305		0.07	1
Perimeter Magnet Reed Contact Detector	–	SMC-W1.1A	2CSY255791R0104		0.165	1
Indoor Passive IR Motion Detector	–	SMD-W1.1A	2CSY255701R0105		0.09	1

Intrusion Alarm Systems

ABB-secure@home – Round Startkit



SAS-W3.1E



SAD-W3.1F



SMD-W1.1A

ABB-secure@home round Startkit:
The startkits represent the installation base for the solutions of extended system, containing all the basic devices usually common to any installation.
They are easily expandable to fit any customer needs.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
Startkit GSM round	–	SSK-W3.1A	2CSY251215R0054		4.07	1
It includes the following:						
Basic, Round, white		SAS-W3.1E	2CSY234925R0005		1.37	1
Round, black	–	SAD-W3.1F	2CSY295161R1058		0.07	1
Indoor Passive IR Motion Detector	–	SMD-W1.1A	2CSY255701R0105		0.09	1

Intrusion Alarm Systems

ABB-secure@home – Motion Detectors

Motion Detectors – Indoor



SMD-W1.1A

Indoor Passive IR Motion Detector

The indoor passive IR motion detector reveal the presence of intruders inside the controlled area, providing pet immunity. The is equipped with a passive IR sensor with Fresnel lens and by default it operates with a wide-ranging coverage (90° angle and 11 m distance); it is possible, through a different configuration, to make it operate with a long-distance coverage (10° angle and 17 m distance). This device communicates bidirectionally with the central unit that supervises it at programmable intervals (every 15 minutes by default); it can be programmed in real time or delayed mode (with a programmable delay from 0 to 90 seconds that can be different for input and output).
It is possible to configure these parameters during the system commissioning.
Spare lithium battery (Order code: 2CSY255331R0802).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
white	–	SMD-W1.1A	2CSY255701R0105		0.09	1
Mounting Bracket for IR Motion Detector, white	–	SIM-W2.1A	2CSY255101R0607			1



SKP-W2.1A
SMD-W2.1D

Dual Passive IR Perimeter Motion Detector

The dual passive IR perimeter motion detector protects doors and/or windows using a tent-type cover on the opening and two infrared sensors. The device is also equipped with an extra input (it can be disabled, leaving only the active IR mode) where you can connect an external wired magnetic contact (with its anti-tampering).
The detector provides the anti-masking feature (that can be disabled).
It is supervised by the central unit at programmable intervals (every 15 minutes by default); it can be programmed in real time or delayed mode (with a programmable delay from 0 to 90 seconds that can be different for input and output). It is possible to configure these parameters during the system commissioning.
Spare lithium battery (Order code: 2CSY255331R0802).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
white	–	SMD-W2.1A	2CSY235871R0103		0.22	1
brown	–	SMD-W2.1D	2CSY200091R0103		0.22	1

Intrusion Alarm Systems

ABB-secure@home – Motion Detectors

Motion Detectors – Outdoor



SMD-W4.1A

Perimeter Bidirectional Dual Passive IR Motion Detector

The perimeter bidirectional dual passive IR motion detector allows the external control of the building's perimeter, ideal for the protection of doors and windows. It has to be installed on a wall.

Inside the machine there are four infrared detectors, two per side; both sensors on one side, coupled, can be adjusted horizontally at 0° or 3°. In the vertical direction, for each side, the upper sensor is fixed, while the lower one is adjustable to 4 positions (with detection distance of 2, 5, 8 and 12 m).

The alarm is triggered only if both sensors, even on just one side, detect a presence; this operation mode makes the device particularly suitable to avoid false signals due to the presence of pets. This device communicates bidirectionally with the central unit, that supervises it at programmable intervals (every 15 minutes by default); it can be programmed in real time or delayed mode (with a programmable delay from 0 to 90 seconds that can be different for input and output). It is possible to configure these parameters during the system commissioning.

Spare lithium battery (Order code: 2CSY255331R0802).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
white	–	SMD-W4.1A	2CSY254971R0202		0.57	1



SMD-W5.1A

Compact Dual Passive IR Perimeter Motion Detector

This compact-size device allows to control the building's external perimeter and it is particularly suitable for the protection of doors and windows. it has to be installed on the wall.

The curtain-type detection area (5° detection angle) has an adjustable length from 2 to 5 meters.

The device is internally fitted with two infrared detectors, one of which is adjustable.

The alarm is triggered only if both sensors detect a presence; this operation mode makes the device particularly suitable to avoid false signals due to the presence of pets.

The detector provides also an anti-masking function.

It communicates bidirectionally with the central unit that supervises it at programmable intervals (every 15 minutes by default); it can be programmed in real time or delayed mode (with a programmable delay from 0 to 90 seconds, that can be different for input and output).

It is possible to configure these parameters during the system commissioning.

Spare lithium battery (Order code: 2CSY255331R0802).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
white	–	SMD-W5.1A	2CSY254981R0203		0.32	1

Intrusion Alarm Systems

ABB-secure@home – Motion Detectors



SMD-W3.1A

Outdoor Dual Passive IR Motion Detector

The outdoor dual passive IR motion detector is suitable to control the building's external areas. It has to be installed on wall or pole.

The device integrates two infrared detectors: the upper one is fixed, the lower one is vertically adjustable in 5 positions (with 2, 3, 6, 8 and 12 m average coverage area). The alarm is triggered only if both sensors detect a presence; this operation mode makes the device particularly suitable to avoid false signals due to the presence of pets.

The horizontal detection area is 90°. It can be rotated according to six possible angle positions. The detector provides an anti-masking function (that can be disabled).

This device communicates bidirectionally with the central unit that supervises it at programmable intervals (every 15 minutes by default); it can be programmed in real time or delayed mode (with a programmable delay from 0 to 90 seconds that can be different for input and output). It is possible to configure these parameters during the system commissioning.

Spare lithium battery (Order code: 2CSY255331R0802).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
white	–	SMD-W3.1A	2CSY255211R0201		0.55	1



SMD-W6.1A

Outdoor Dual Passive IR Motion Detector for Height

This device, specific to be installed on the wall at a height of 2.5 - 3 m, allows to control building's external areas. Through the two IR detectors, the device indicates the presence of intruders avoiding false alarm alerts.

The detector provides an anti-masking function (that can be disabled).

This device communicates bidirectionally with the central unit that supervises it at programmable intervals (every 15 minutes by default); it can be programmed in real time or delayed mode (with a programmable delay from 0 to 90 seconds that can be different for input and output).

It is possible to configure these parameters during the system commissioning.

Spare lithium battery (Order code: 2CSY255331R0802).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
white	–	SMD-W6.1A	2CSY255311R0204		0.55	1

Intrusion Alarm Systems

ABB-secure@home – Magnetic Contacts

Magnetic Contacts



SMC-W1.1D
SMC-W1.1A

Perimeter Magnet Reed Contact Detector

The perimeter magnet reed contact detector controls doors, windows and detects their opening or closing through the internal reed contact and the external magnet. This device communicates bidirectionally with the central unit that supervises it at programmable intervals (every 15 minutes by default); it can be programmed in real time or delayed mode (with a programmable delay from 0 to 90 seconds that can be different for input and output).
It is possible to configure these parameters during the system commissioning.
Spare lithium battery (Order code: 2CSY255331R0802).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
white	–	SMC-W1.1A	2CSY255791R0104		0.165	1
brown	–	SMC-W1.1D	2CSY255731R0104		0.165	1



SMC-W4.1A

Perimeter Magnet Reed Contact Detector Mini

The perimeter magnet reed contact detector controls doors, windows and detects their opening or closing through the internal reed contact and the external magnet. This device communicates bidirectionally with the central unit that supervises it at programmable intervals (every 15 minutes by default); it can be programmed in real time or delayed mode (with a programmable delay from 0 to 90 seconds that can be different for input and output). It is possible to configure these parameters during the system commissioning.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
white	–	SMC-W4.1A	2CSY295161R1052		0.165	1
Set of perimetral detector spacers, white	–	SIM-W3.1A	2CSY251235R0608		0.05	10

Magnetic Contacts – Accessories



SMC-W3.1A

Magnet Reed Contact for Surface/Flush Mounting

The device signals the opening of windows or doors. As flush mounting device, it can be instaled in 8 millimetes round holes; to be installed as surface mounting, it needs the provided adapter.
It must be necessarily connected to a perimeter magnet reed contact detector (SMC-W1.1x) or to a dual passive IR perimeter motion detector (SMD-W2.1x); for this purpose it is equipped with a 1.2 meter connection cable.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
white	–	SMC-W3.1A	2CSY295241R0606		0.12	1
brown	–	SMC-W3.1D	2CSY295201R0606		0.12	1

Intrusion Alarm Systems

ABB-secure@home – Magnetic Contacts



SMC-W2.1

Rolling Door Magnet Reed Contact

The device signals the opening of overhead or rolling doors. It must be necessarily connected to a perimeter magnet reed contact detector (SMC-W1.1x) or to a dual passive IR perimeter motion detector (SMD-W2.1x); for this purpose it is equipped with a 1.2 meter connection cable.
It is made of aluminum with high resistance to the transit of heavy vehicles.
The minimum fixing distance is 20 millimeters from ferrous materials and 25 mm from non-ferrous materials.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	SMC-W2.1	2CSY255341R0602		0.12	1



SLM-W1.1

Roller Shutter Sensor

The device detects the lifting of shutters through the movement of the retractable rope.
It is made of thermoplastic material; the rope is 3.5 m long.
It must be necessarily connected to a perimeter magnet reed contact detector (SMC-W1.1x).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
white	–	SLM-W1.1	2CSY255001R0603		0.28	1



SGB-W1.1A

Shock Inertial Sensor

This device detects a possible shock occurred on a door, window or the surface on which it is installed. Equipped with a 2-meter connection cable, it must be necessarily connected to a perimeter magnet reed contact detector (SMC-W1.1x). Assembly: projecting on door/window/generic surfaces using screws or double-sided adhesive tape.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
white	–	SGB-W1.1A	2CSY255871R0604		0.07	1

Intrusion Alarm Systems

ABB-secure@home – Technical Detectors



STD-W1.1

Secure@home Wireless Interface Module for Busch-Smoke Alarm
The module is required for interfacing the smoke detectors (article no. 6800-0-2721) or heat detectors (article no. 6800-0-2723) to the central unit.
The module is equipped with an integrated lithium battery – minimum battery life: 10 years.
The device features a bidirectional communication with the central unit that supervises it with a programmable supervision interval (typically every 15 minutes). It is possible to configure this parameter during the system commissioning.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
white	–	STD-W1.1	2CSY254961R0701		0.02	1



STD-W5.1A

Water Detector
It detects the presence of water. The minimum detectable level of the liquid is 1 millimeter, but it can be adjusted to higher levels.
It is equipped with an anti-tamper (breakage or removal), self-diagnostics and control of battery charge device.
The detector ic composed by the interface module and the flood detection probe. It features a bidirectional communication with the central unit that supervises it with a programmable supervision interval (typically every 15 minutes).ilt is possible to configure this parameter during the system commissioning.
Spare lithium battery (Order code: 2CSY255331R0802).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
white	–	STD-W5.1A	2CSY255191R0705		0.15	1

Intrusion Alarm Systems

ABB-secure@home – Arming Devices

Arming Devices



SAD-W1.1F



SAD-W3.1F

Preconfigured Remote Control

The remote control is a mobile system device used to manage the anti-intrusion system in the simplest way. It has 5 with symbolic identification.

One key is freely configurable and the other 4 keys are pre-configured with the following functions: Away mode, Home mode, Disarm and Panic Alarm. The 4 pre-configured keys can be at any time re-configured if needed. One is a service LED that gives information about the battery level and the communication status with the central unit; the other four LEDs are used as a feedback regarding the arming (red LED on) or disarming (green LED on) status of the different system zones. All LEDs flash yellow for 2 seconds if there is something preventing the correct arming/disarming of the system (e.g. an open window). All the keys are equipped with LEDs.

Spare lithium button battery, 3V (CR2032) are normally available on the market.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
Square, glass black	–	SAD-W1.1F	2CSY202821R0305		0.07	1
Round, black	–	SAD-W3.1F	2CSY295161R1058		0.07	1



SAD-W2.1F



SAD-W4.1F

Remote Control

The remote control is a mobile system device used to manage the anti-intrusion system in the simplest way. It has 5 fully configurable keys with numerical identification; each of them can be configured to arm/disarm the anti-intrusion zones, but also to trigger secial functions such as anti-theft alarm, panic alarm, first aid alarm. All the keys are equipped with fully configurable LEDs.

Spare lithium button battery, 3V (CR2032) normally available on the market.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
Square, glass black	–	SAD-W2.1F	2CSY251641R0306		0.07	1
Round, black	–	SAD-W4.1F	2CSY251195R0308		0.07	1

Intrusion Alarm Systems

ABB-secure@home – Signalling Devices/Batteries and Installation Material

Signalling Devices






SSD-W1.1A
SSD-W1.1B
SSD-W1.1C

SSD-W2.1C

Outdoor Siren

The outdoor siren is a two-way self-powered device capable of emitting acoustic and light alarms. It is installed outdoor on a wall and is equipped with anti-opening, anti-removal, anti-perforation, anti-shock protection, as well as an anti-foaming patented system.
Alarm sound type, duration, sound levels and LEDs, etc.can be configured and personalized while commissioning the system.
Spare battery pack (Order code: 2CSY254991R0803).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
Square, white	–	SSD-W1.1A	2CSY277631R0502		2.17	1
Square, anthracite	–	SSD-W1.1B	2CSY229751R0502		2.17	1
Square, silver	–	SSD-W1.1C	2CSY296961R0502		2.17	1
Round, silver	–	SSD-W2.1C	2CSY258212R0501		2.17	1

Batteries and Installation Material



SBA-W1.1

Rechargeable Battery Pack, Ni-Mh, 6 V, 1.6 Ah

This is the central units' dedicated battery pack. It is rechargeable, therefore it normally must not be replaced. Buy a spare battery only if its duration is significantly decreased, which could mean that the battery has reached its end-of-life.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	SBA-W1.1	2CSY255111R0801		0.02	1



SBA-W2.1

Lithium Battery, 3 V, 1.4 Ah

This lithium batteries are the ones used by all the ABB-secure@home safety and security sensors.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	SBA-W2.1	2CSY255331R0802		0.01	1



SBA-W3.1

Battery Pack, LR20, 7.5 V, 12 Ah

This is the outdoor sirens's dedicated battery pack.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	SBA-W3.1	2CSY254991R0803		0.40	1

Intrusion Alarm Systems

ABB-secure@home – Signalling Devices/Batteries and Installation Material



SIM-W1.1

Wireless Repeater

This device repeats the signal between sensors, sirens and central units, extending the range to the radio frequency transmissions.

The repeater features a bidirectional communication with the central unit that supervises it with a programmable supervision interval (typically every 15 minutes).It is possible to configure these parameters during the system commissioning.

Up to 4 repeaters can be configured for each central unit; each repeater has a list of devices to be managed: the update of the devices list for a repeater is done directly through specific functions of the central unit.

The device can be powered by a plug-in 220 V power supply; in this case the battery has a backup function in the event of a mains power failure.

It is equipped with an anti-tamper (breakage or removal), self-diagnostics and control of battery charge device.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	SIM-W1.1	2CSY255201R0601		0.47	1

Intrusion Alarm Systems

ABB Alarm System – GM/A – Alarm Panels/System Components

Alarm Panels



GM/A 8.1

KNX Security Panel, SM

for the protection of small to medium residential or commercial properties against intrusion and technical faults. The Security Panel is suitable for up to five logical areas. It has 8 integrated zones for detectors, a Security Bus for Bus-detectors, Bus-Zone Modules and Setting devices, Ethernet connection (RJ45) for programming, operating and displaying system status via Web-Browser and an integrated KNX interface. The Security Panel GM/A 8.1 complies with the requirements to VdS classes A, B and C, to the European Standard EN 50131, Grade 1 to 3 and to ISO/IEC 62642 Grade 1 to 3.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	GM/A 8.1	2CDG110150R0011		10.5	1
Off the wall tamper contact for GM/A	–	WA/Z 1.1	2CDG110174R0011		0.2	1

System Components



BT/A 1.1



BT/A 2.1

Keypad for GM/A 8.1

Used to operate and display the information of the system states of the GM/A 8.1 KNX Security Panel. System messages are displayed on a four-line LCD display. The multifunction and special keys mean that all the system functions can be operated easily. Safety-relevant functions are protected by a user PIN. Fife Keypads can be connected to each Security Panel. There is no need for an external voltage supply, the keypads are supplied via the Keypad-Bus. The device can be used in systems with increased system requirements according to VdS Class A, B and C, DIN VDE 0833 Grade 1, 2 and 3 and EN 50131/IEC 62642 Grade 1, 2 and 3.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
Black	–	BT/A 1.1	2CDG280001R0011		0.5	1
White	–	BT/A 2.1	2CDG280002R0011		0.5	1

Intrusion Alarm Systems

ABB Alarm System – GM/A – Alarm Panels/System Components



MG/A 4.4.1

Zone Module, 4-fold

to connect to Security Panel GM/A 8.1 via the Security-Bus. For expansion of the Security-Panel by 4 detector zones. Used for connection to the exterior perimeter detectors such as magnetic reed contacts and passive glass break sensors. The module has 4 zones to which several detectors can be connected. The status of each zone is displayed with a status LED. The Zone Module delivers the control signals and the supply voltage for the external detectors. There is no need for an external voltage supply, the Zone Modules are supplied via the Security-Bus.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
to mount in the Security Panel housing	–	MG/E 4.4.1	2CDG110178R0011		0.1	1
in a surface mounting housing for installation in the building	–	MG/A 4.4.1	2CDG110186R0011		0.1	1

Intrusion Alarm Systems

ABB Alarm System – GM/A – Motion Detectors

Motion Detectors



IR/XB

Passive IR Bus Motion Detector, 15 m

For direct connection to the security-bus of the Intrusion Alarm Panel GM/A 8.1. The motion detector with passive infrared technology is VdS class B / EN Grade 2 certified. It facilitates monitoring of an area with an infrared range of up to 15 m.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
VdS B/EN Grade 2	–	IR/XB	2CDG230023R0011		0.15	1



EIM/XB

Dualtech Bus Motion Detector, 15 m

For direct connection to the security-bus of the Intrusion Alarm Panel GM/A 8.1. The Dual-Motion Detector combines proven passive infrared technology with temperature-independent microwave technology. The combination of both functional principles results in a detector featuring high immunity to false alarms, even with unfavourable ambient conditions, and which still has high detection security. The detector is VdS class B / EN Grade 2 certified. It facilitates monitoring of an area with an infrared range of up to 15 m. For use in EU countries only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
VdS B/EN Grade 2	–	EIM/XB	2CDG230025R0011		0.15	1

Intrusion Alarm Systems

ABB Alarm System – GM/A – Arming Systems

Arming Systems



L240/BS

SafeKey Evaluation Module

For connection of the SafeKey components as well as all components required for a setting door (magnetic contacts, lock bolt switching contact, bolt lock, internal siren). For direct connection to the security-bus of the Intrusion Alarm Panel GM/A 8.1. The management of the electronic keys from the SafeKey range is undertaken completely via the WebUI of the Security Panel GM/A 8.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	L240/BS	GHQ3050031R0001		0.13	1



WEL/A, ES

SafeKey Wall Reader, SM

For setting/unsetting with the Evaluation Module L240/BS. The unit is actuated by inserting the electronic SafeKey chipkey. The SafeKey Wall Reader WEL is equipped with the key reader and an acknowledgement buzzer. VdS class C.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
stainless steel	–	WEL/A, ES	GHQ3050023R0001		0.38	1



WELT/A, ES

SafeKey Wall Reader with Keypad, SM

For setting/unsetting with the Evaluation Module L240/BS. The unit is actuated by inserting the electronic SafeKey chipkey and/or code. The SafeKey Wall Reader WELT is equipped with the key reader, keypad and an acknowledgement buzzer. VdS class C.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
stainless steel	–	WELT/A, ES	GHQ3050024R0001		0.45	1



SCS

SafeKey Chipkey

It is an electronic carrier medium for setting / unsetting via a SafeKey Wall Reader. A SafeKey Chipkey can be authorized for any number of different SafeKey systems with different levels of authorization.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	SCS	GHQ3050027R0001		0.02	1

Intrusion Alarm Systems

ABB Alarm System – GM/A – Signalling Devices/Installation Material

Signalling Devices



SSS

Indoor Siren, 12 V DC

Electronic solid-state siren with intermittent tone for alarm purposes in indoor installations.
External dimensions: ø x H = 90 x 37 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	SSS	GHV9270001V0001		0.17	1



SSF/G

Siren in Enclosure

An aluminium protective housing with additional protective enamel coating. Protected against sabotage by a case tamper contact. The alarm inputs are wired onto a terminal strip. With fixing screw (M4) for potential equalization on the base.
Dimensions: H x W x D = 200 x 205 x 88 mm; Color: RAL 9002 Environmental class III to VdS.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	SSF/G	GHQ3050017R0001		1.64	1



SSF/GB

Siren with Strobe

An aluminium protective housing with additional protective enamel coating. Protected against sabotage by a case tamper contact. The alarm inputs are wired onto a terminal strip. With fixing screw (M4) for potential equalization on the base.
Dimensions: H x W x D = 258 x 205 x 88 mm; Color: RAL 9002 Environmental class III to VdS.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	SSF/GB	GHQ3050018R0001		1.81	1

Installation Material

SAD/GAP

Distribution Enclosure, SM

For installation of the Bus Module L240/BS.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
Surface mounting, white	–	SAD/GAP	2CDG220021R0011		0.131	1

Intrusion Alarm Systems

ABB Alarm System – GM/A – Batteries



SAK17

Sealed Lead Acid Battery, 12 V DC

Sealed lead acid battery for power backup up of alarm systems. Maintenance free.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
18 Ah	–	SAK17	GHV9240001V0013		7.15	1

Intrusion Alarm Systems

Conventional Intrusion Alarm Components – Motion Detectors

Motion detectors directly evaluate movements within closed rooms. The change to specific physical variables is evaluated and signaled as an attempted intrusion. The passive infrared detector is used for normal environmental influences.
For critical environmental influences a combination of passive infrared and microwave, so called dual technologie, is used.
Compatible systems: Alarm System – GM/A and KNX.



EIM/D

Dual Ceiling Detector, EN Grade 2, 10 m

Operates according to the proven detection principle of infra-red technology and microwave over 360°. The range of the infrared component can be adapted via the mounting height while the range of the microwave can be adjusted separately using a jumper. The detector is fitted with a walk test LED. Colour: RAL 9010 pure white. For use in EU countries only.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	EIM/D	2CDG230039R0011		0.14	1

Intrusion Alarm Systems

Conventional Intrusion Alarm Components – Magnetic Contacts

Magnetic contacts monitor windows, doors, hatches or other access points for their open or closed state. The state is evaluated by the alarm system to trigger an intrusion alarm. Compatible systems: Alarm System – GM/A, ABB-secure@home, KNX.



MRS/W

Magnet Reed Contact Set

For opening surveillance of windows and doors, complete for bolting or drilling. Contents: 1 magnet, 1 reed contact with 4.0 m connection cable LIYY 4 x 0.14 mm², 2 housings, 2 spacer plates, 2 flanges and 4 anti-magnetic fixing screws. VdS class B.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
white	–	MRS/W	GHQ3201972R0001		0.1	1
brown	–	MRS/B	GHQ3201972R0002		0.1	1
Saver Set (20 pcs.), white	–	VMRS/W	GHQ3201972R0011		1.99	1
Saver Set (20 pcs.), brown	–	VMRS/B	GHQ3201972R0012		1.99	1



SMC-W3.1A

Magnet Reed Contact for Surface/Flush Mounting

The device signals the opening of windows or doors. As flush mounting device, it can be instaled in 8 millimetes round holes; to be installed as surface mounting, it needs the provided adapter.
It must be necessarily connected to a perimeter magnet reed contact detector (SMC-W1.1x) or to a dual passive IR perimeter motion detector (SMD-W2.1x); for this purpose it is equipped with a 1.2 meter connection cable.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
white	–	SMC-W3.1A	2CSY295241R0606		0.12	1
brown	–	SMC-W3.1D	2CSY295201R0606		0.12	1



SMC-W2.1

Rolling Door Magnet Reed Contact

The device signals the opening of overhead or rolling doors. It must be necessarily connected to a perimeter magnet reed contact detector (SMC-W1.1x) or to a dual passive IR perimeter motion detector (SMD-W2.1x); for this purpose it is equipped with a 1.2 meter connection cable.
It is made of aluminum with high resistance to the transit of heavy vehicles.
The minimum fixing distance is 20 millimeters from ferrous materials and 25 mm from non-ferrous materials.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	SMC-W2.1	2CSY255341R0602		0.12	1

Intrusion Alarm Systems

Conventional Intrusion Alarm Components – Magnetic Contacts



MC-C 1.1

Rolling Door Reed Contact

The Rolling Door Reed Contact Set is mounted mainly on rolling, sliding, and tilting doors.
The contact housing is mounted on the ground (a flat support surface is required).
Only screws made of anti-magnetic material may be used for mounting.
Due to the weatherproof and mechanically stable design of the contact housing, the circuit is mostly protected against damage when rubber-tired vehicles drive over it.
The 4-wire cable is protected by a plastic-coated metal hose.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
VdS Class B, EN Grade 2	–	MC-C1.1	2CDG250006R0011		0.3	1

Intrusion Alarm Systems

Conventional Intrusion Alarm Components – Glass Break Detectors

Glass break detectors evaluate glass breakage of glass surfaces from windows or doors. Compatible systems: Alarm System – GM/A, ABB-secure@home, KNX.



SPGS/W

Passive Glass Break Detector

Passive Glass Break Detector evaluates typical glass-breakage noises. VdS class B.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
white	–	SPGS/W	GHV9220004V0009		0.11	1



AGM

Acoustic Glass Break Detector, SM

Acoustic Glass Break Detector evaluates typical glass-breakage noises. Built in microphone.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	AGM	GHV9210030V0010		0.09	1



SGB-W1.1A

Shock Inertial Sensor

This device detects a possible shock occurred on a door, window or the surface on which it is installed. Equipped with a 2-meter connection cable, it must be necessarily connected to a perimeter magnet reed contact detector (SMC-W1.1x). Assembly: projecting on door/window/generic surfaces using screws or double-sided adhesive tape.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
white	–	SGB-W1.1A	2CSY255871R0604		0.07	1

Intrusion Alarm Systems

Conventional Intrusion Alarm Components – Glass Break Detectors



LKS

Loctite Adhesive for Glass Break Detector

Loctite Adhesive for mounting Glass Break Detectors SPGS.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	LKS	GHQ4001906R0001		0.06	1



GP2

Mechanical Tester for SPGS

Mechanical tester for SPGS.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	GP2	GHV9220004V0004		0.1	1

Intrusion Alarm Systems

Conventional Intrusion Alarm Components – Lock Monitoring

The lock monitoring of windows, doors, hatches or other access points for their unlocked or locked state ensures that every access point is locked before the building is left. Also it helps to reduce false alarms in the building. Compatible systems: Alarm System – GM/A, ABB-secure@home, KNX.



WRK/W

Lock Bolt Switching Contact with Connection Cable

For installation in the strike plate, for lock monitoring on doors. Water-tight IP 67, with 2.5 m connection cable LIYY 3 x 0.14 mm². VdS class C.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	WRK/W	2CDG250003R0011		0.03	1



VSUE

Window Lock Monitoring Contact

Lock monitoring is carried out with a special magnet and a reed contact. The magnet is mounted on the push rod of the window sash while the reed contact is mounted on the frame. The connection cable LIYY 4 x 0.14 mm² is 4 m in length. VdS class C.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	VSUE	GHV9210018V0022		0.09	1



SLM-W1.1

Roller Shutter Sensor

The device detects the lifting of shutters through the movement of the retractable rope.
It is made of thermoplastic material; the rope is 3.5 m long.
It must be necessarily connected to a perimeter magnet reed contact detector (SMC-W1.1x).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
white	–	SLM-W1.1	2CSY255001R0603		0.07	1

Intrusion Alarm Systems

Conventional Intrusion Alarm Components – Panic Buttons

Panic buttons are push buttons which can be pressed by a person in danger. The actuation of a panic button immediately leads to an alarm. In case of a hold-up alarm the panic button can be used to trigger a remote alarm only. Compatible systems: Alarm System – GM/A, KNX.



ND/W

Emergency Call Button, white

For manual alarm tripping. Complies with the police regulations since it features permanent trip recognition, momentary-contact function, with cover contact. Surface mount version. Colour: white. VdS class C.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
Surface mounting	–	ND/W	GHQ7132443R0011		0.15	1
Flush mounting	–	NDU/W	GHQ7132443R0021		0.15	1



NDA/W

Cover Plate for Emergency Call Button

Used primarily in the banking sector or other institutions, where unintentional alarm triggering is possible due to public access.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
white	–	NDA/W	GHQ7132443R0004		0.03	1

Intrusion Alarm Systems

Conventional Intrusion Alarm Components – Technical Detectors

No matter whether they are smoke, gas or water leakage, the right detector will recognize it.



TD-C 1.1

Gas Detector with Relay Contact

The Gas Detector is used for monitoring gas leakage of domestic and commercial rooms. It detects gases like propane, methane and butane as well als acetylene, city gas and natural gas. The detector can be connected to ABB intrusion and fire alarm control panels, as well as ABB i-bus® binary inputs via a potential-free relay contact. Suitable as a stand-alone device. An external power supply with 12-24 V DC is required.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	TD-C 1.1	2CDG220023R0011		0.167	1



SWM 4

Water Detector for Detector Groups

A resin-encapsulated water detector with gold-plated Termipoint pins, detects water ingress, e.g., pipe fractures, ingress of groundwater and sewage, water damage caused by washing machines and dishwashers etc. before the damage becomes too expensive.
For operation directly on detector circuits of intrusion alarm panels or security terminals.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	SWM 4	GHQ4030001R0004		0.16	1



SWM 4/RN

Water Detector with Relay, 12 V

Features a potential free changeover contact output, an LED parallel output and a LED display. The detector resets itself automatically when the affected area dries out. The device draws its power from an external 10 ... 23 V DC voltage source.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	SWM4/RN	GHQ4030001R0012		0.23	1

Intrusion Alarm Systems

Conventional Intrusion Alarm Components – Technical Detectors



6833/01-84

Busch-Smoke Alarm® ProfessionalLine

For early detection of smouldering fires and open fires with smoke development indoors according to the photooptical measurement principle (Tyndall). With installed Lithium battery. Battery life min. 10 years. With test button and muting. Can be networked with up to 12 detectors using the radio module. Can be networked via 2-wire twisted pair cable with up to 12 detectors. Acoustic alarm: installed horn (85 dBA). Cyclic functional test. Including attachment material – VdS certified. Conform to EN 14604 studio white.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
not networkable	–	6833-84	6800-0-2717			1
networkable	–	6833/01-84	6800-0-2718			1



6835/01-84

Busch-Heat Alarm ProfessionalLine

Signal triggered at over 57 °C. With installed Lithium battery. Battery life min. 10 years. With test button and muting. Can be networked via 2-wire twisted pair cable with up to 12 detectors. Can be networked with up to 12 detectors using the radio module. Acoustic alarm: installed horn (85 dBA). Cyclic functional test. Including attachment material – VdS certified. Conform to EN 14604.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
studio white	–	6835/01-84	6800-0-2722			1



6827-84

Busch-Smoke Alarm® Radio Module

For wireless networking of multiple Busch smoke alarms® / heat alarms.
With installed Lithium battery. Battery life min. 10 years. Radio frequency: 868 MHz.
Range: max. 100 m outdoors, max. 30 m indoors.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	6828	6800-0-2514			1



6829-84

Busch-Smoke Alarm® Relay

For connecting external systems, e.g. KNX. Relay contact, floating changeover contact 230 V~ max. 5 A. Cable connection: up to 2 x 2 x 1.5 mm². With installed radio module.
Rated voltage: 230 V~.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
studio white	–	6829-84	6800-0-2515			1

Intrusion Alarm Systems

Conventional Intrusion Alarm Components – Technical Detectors



6824-84

Busch-Smoke Alarm® Remote Control

For service purposes. With muting, test and search function.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
studio white	–	6824-84	6800-0-2516			1

Intrusion Alarm Systems

Conventional Intrusion Alarm Components – Technical Detectors



FC650/O

Optical Smoke Detector

Optical smoke detector in threshold alarm technology that detects smoke according to the scattered-light principle The detectors feature an alarm indicator on the detector head that is visible from all angles, and which can be be triggered with a permanent magnet for test purposes. A detector base is provided for mounting and cable connection purposes into which the detector is simply screwed in via the bayonet connection. Each detector is equipped with an alarm LED, which displays the stored alarm in the event of an a alarm Detector/base diameter: 110 mm. VdS approved.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	FC650/O	2CDG430079R0011		0.09	1



FC650/TDIFF

Differential Maxium Heat Detector

The FC650/TDIFF is a thermal maximum and rate heat detector with an alarm temperature of 58 °C.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	FC650/TDIFF	2CDG430080R0011		0.09	1



FC650/TMAX

Thermal Maximum Detector

Static Heat Detector in threshold alarm technology, – trigger temperature 78 °C. The detectors feature an alarm indicator on the detector head that is visible from all angles, and which can be be triggered with a permanent magnet for test purposes. A detector base is provided for mounting and cable connection purposes into which the detector is simply screwed-in via the bayonet connection. Each detector is equipped with an alarm LED, which displays the stored alarm in the event of an a alarm. Detector/base diameter: 110 mm. VdS approved.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	FC650/TMAX	2CDG430081R0011		0.09	1



FC600/BREL

Relay Base, 12/24 V

Enables system-independent connection of the FC650 series fire detector to systems or devices that are not specifically designed for this detector technology. Examples include Intrusion Alarm Panels, KNX Security Terminals, elevator controls or other signal processing equipment. The detector base must be supplied by either a 12 V or a 24 V DV voltage supply. A floating 30 V DC/1 A changeover contacting is provided for transferring an alarm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	FC600/BREL	2CDG430051R0011		0.08	1

Intrusion Alarm Systems

Conventional Intrusion Alarm Components – Arming Systems

Arming devices for alarm systems ensure a comfort and secure usage for activation or deactivation of the intrusion alarm functions. Compatible systems: Alarm System – GM/A, KNX.



ESPE/M

Electrical Mini Bolt Lock

The ESPE/M Mini Bolt Lock is used together with an intrusion alarm system to implement the inevitability condition. The motorized bolt lock additionally locks the door to the set area, preventing unintentional opening of the door when the intrusion alarm system is set. The ESPE/M Mini Bolt Lock is connected to the L240/BS Evaluation module for GM/A 8.1 KNX Security Panel.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	ESPE/M	2CDG270010R0011		0.13	1

Intrusion Alarm Systems

Conventional Intrusion Alarm Components – Signalling Devices

Signalling devices are used for local alarming. A distinction is made between internal and external alarming. Internal alarming is used, i.e. when people are present in the monitored building. It is used solely to make people aware of a danger. External alarming is carried out using acoustic signaling devices (sirens) and visual signaling devices (strobe light). External alarming is used to contact the neighborhood or the general public. Compatible systems: Alarm System – GM/A, KNX.



SSS

Indoor Siren, 12 V DC

Electronic solid-state siren with intermittent tone for alarm purposes in indoor installations. External dimensions: ø x H = 90 x 37 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	SSS	GHV9270001V0001		0.17	1



SSF/G

Siren in Enclosure

An aluminium protective housing with additional protective enamel coating. Protected against sabotage by a case tamper contact. The alarm inputs are wired onto a terminal strip. With fixing screw (M4) for potential equalization on the base.
Dimensions: H x W x D = 200 x 205 x 88 mm; Color: RAL 9002 Environmental class III to VdS.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	SSF/G	GHQ3050017R0001		1.64	1



SSF/GB

Siren with Strobe

An aluminium protective housing with additional protective enamel coating. Protected against sabotage by a case tamper contact. The alarm inputs are wired onto a terminal strip. With fixing screw (M4) for potential equalization on the base.
Dimensions: H x W x D = 258 x 205 x 88 mm; Color: RAL 9002 Environmental class III to VdS.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
	–	SSF/GB	GHQ3050018R0001		1.81	1

Intrusion Alarm Systems

Conventional Intrusion Alarm Components – Installation Material

Installation material (junction boxes, cable hoses) for alarm systems ensure a safe and clean installation of all components.



SAD/GAP

Distribution Box, SM

For installation of the Bus Module L240/BS.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
Surface mounting, white	–	SAD/GAP	2CDG220021R0011		0.131	1



SAD...8...

Junction boxes

Junction boxes are used for the safe and clean connection of the different components in the installation. The boxes are available in different installation sizes and types.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
white, SM	–	SADK/W	GHV9260005V0002		0.02	1
white, 8x2 pole, SM	–	SAD8L	GHQ3050004R0001		0.04	1
white, with Tamper Contact, 8x2 pole, SM	–	SADD8L	GHQ3050009R0001		0.05	1
white, with Tamper Contact, 28x2 pole, SM	–	SADD28L	GHQ3050016R0001		0.09	1
white, LSA, 8x2 pole, SM	–	SADD8S	GHQ3050012R0001		0.05	1
white, LSA, 15x2 pole, SM	–	SADD15S	GHQ3050006R0001		0.09	1
white, LSA, 30x2 pole, SM	–	SADD30S	GHQ3050014R0001		0.17	1
white, LSA, 8x2 pole, FM	–	UP8S	GHQ3050015R0001		0.06	1
white, 16x2 pole, FM	–	UP16L	GHQ3050007R0001		0.06	1



SKUES/M

Mini-Cable Hose, 7/5 mm

Cable hoses are needed to protect cables mounted on the moving part of a window or door. The cable hoses are available in different sizes.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
50 cm, 9/7 mm	–	SKUES/M	GHV9260033V0011		0.07	1



IM-C1.1

Cable hose

Cable hoses are needed to protect cables mounted on the moving part of a window or door. The cable hoses are available in different sizes.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
Cable hose	–	IM-C1.1	2CDG250007R0011		0.07	1
Cable hose, white	–	IM-C1.1A	2CDG250008R0011		0.09	1

Intrusion Alarm Systems

Conventional Intrusion Alarm Components – Batteries

Rechargeable batteries ensure back-up power for the alarm system in case the power supply fails. The entire alarm system remains fully operational, even for multiple hours.



SAK7

Sealed Lead Acid Batteries, 12 V DC

Sealed lead acid battery for power backup up of alarm systems. Maintenance free.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code		kg	pc.
7.2 Ah	–	SAK7	GHV9240001V0011		2.98	1
18 Ah	–	SAK17	GHV9240001V0013		7.15	1

Notes

Electrical installation solutions for buildings
Subdistribution boards

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Subdistribution boards

ComfortLine Compact CA and U compact distribution boards
For wall- and flush-mounting



CA25AVM



U52K

Cabinet type	CA / enclosures for wall-mounting				U / enclosures for flush- and hollow-wall mounting			
Degree of protection	IP 30 / IP 44				IP 30 / IP 31			
Protection class	II				II			
Depth	160 mm				120 mm			
Panel width	**1**	**2**	**3**	**4**	**1**	**2**	**3**	**4**
3 Grid units	●	●	-	-	-	●	-	-
4 Grid units	●	●	●	-	●	●	●	-
5 Grid units	●	●	●	●	●	●	●	●
6 Grid units	●	●	●	●	●	●	●	●
7 Grid units	●	●	●	-	-	●	●	-
8 Grid units	●	●	●	-	-	-	-	-

Subdistribution boards

ComfortLine Compact distribution boards

Complete media enclosures and panels for empty cabinets



Technical specifications
Media enclosures complete with integrated media panels
Media panels for empty cabinets
Choice of four different doors
Media panels with perforated sheet steel mounting plate without cover
With fitted DIN rail
Wire holders included
Quick mounting of the devices without drilling
The protection class is dependent on the respective internal configuration



—
01

—
01
Four door variants:
- Standard doors
- Transparent door
- Doors with ventilation holes
- WiFi-doors



—
02

—
02
Wire holder for a neat installation and fast wiring



—
03

—
03
Rubber holder for quick and easy mounting of devices

Subdistribution boards

ComfortLine Compact CA distribution boards

For wall-mounting with distribution panels and sheet steel door



Technical specifications	
Standards/regulations	DIN EN 61439-1/-3
Protection class	II, double insulated
	I, earthed in connection with earthing set (accessories)
Degree of protection	IP44
Mechanical impact strength	IK07
Rated current	I_{nA} up to 125 A

Product features	
Enclosures and doors	Made of sheet steel, colour white RAL 9016, powder-coated
	With depth level compensation
	One top mounted membrane flange per panel width
	Door opening angle 120°
	Double-wing doors on cabinets with three or more panel widths
	Doors with espagnolette closure
	Plastic covers with quick-action screw
	With cable strain relief
Internal configuration options	DIN rail spacing 125 mm/150 mm
	Panels for rail mounting devices with N/PE Quick-terminals
	Panels for terminal blocks: without N/PE Quick-terminals and DIN rails in double insulated assembly
Delivery forms	Enclosure with door
	Labelling system included in the scope of delivery
Accessories	Cable entry covers
	Lock replacement parts

Subdistribution boards

ComfortLine Compact CA distribution boards

For wall-mounting with distribution panels and sheet steel door

Article	PW	GU	SU	External dimensions H × W × D (mm)	Type	Order code	Price
For rail mounting devices with N/PE quick terminals, DIN rail spacing 125 mm							
 **CA13V**	1	3	36	500 × 300 × 160	CA13V	2CPX052180R9999	
		4	48	650 × 300 × 160	CA14V	2CPX052181R9999	
		5	60	800 × 300 × 160	CA15V	2CPX052182R9999	
		6	72	950 × 300 × 160	CA16V	2CPX052183R9999	
 **CA24V**	2	3	72	500 × 550 × 160	CA23V	2CPX052184R9999	
		4	96	650 × 550 × 160	CA24V	2CPX052185R9999	
		5	120	800 × 550 × 160	CA25V	2CPX052186R9999	
		6	144	950 × 550 × 160	CA26V	2CPX052187R9999	
		7	168	1 100 × 550 × 160	CA27V	2CPX052188R9999	
		8	192	1 250 × 550 × 160	CA28V	2CPX052189R9999	
 **CA24V2**	2 (1/1)	4	96	650 × 550 × 160	CA24V2	2CPX052196R9999	
		5	120	800 × 550 × 160	CA25V2	2CPX052197R9999	
 **CA35V**	3 (2/1)	4	144	650 × 800 × 160	CA34V	2CPX052190R9999	
		5	180	800 × 800 × 160	CA35V	2CPX052191R9999	
		6	216	950 × 800 × 160	CA36V	2CPX052192R9999	
		7	252	1 100 × 800 × 160	CA37V	2CPX052193R9999	
		8	288	1 250 × 800 × 160	CA38V	2CPX052194R9999	
 **CA45V**	4 (2/2)	5	240	800 × 1 050 × 160	CA45V	2CPX052195R9999	

Subdistribution boards

ComfortLine Compact CA distribution boards

For wall-mounting with distribution panels and sheet steel door

Article	PW	GU	SU	External dimensions H × W × D (mm)	Type	Order code	Price
For rail mounting devices with N/PE quick terminals, DIN rail spacing 150 mm							
 **CA14R**	1	3	36	650 × 300 × 160	CA14R	2CPX052229R9999	
		4	48	800 × 300 × 160	CA15R	2CPX052230R9999	
		5	60	950 × 300 × 160	CA16R	2CPX052231R9999	
		6	72	1 100 × 300 × 160	CA17R	2CPX052232R9999	
		7	84	1 250 × 300 × 160	CA18R	2CPX052233R9999	
 **CA23R**	2	2	48	500 × 550 × 160	CA23R	2CPX052234R9999	
		3	72	650 × 550 × 160	CA24R	2CPX052235R9999	
		4	96	800 × 550 × 160	CA25R	2CPX052236R9999	
		5	120	950 × 550 × 160	CA26R	2CPX052237R9999	
		6	144	1 100 × 550 × 160	CA27R	2CPX052238R9999	
		7	168	1 250 × 550 × 160	CA28R	2CPX052239R9999	
 **CA34R**	3 (2/1)	3	108	650 × 800 × 160	CA34R	2CPX052240R9999	
		4	144	800 × 800 × 160	CA35R	2CPX052241R9999	
		5	180	950 × 800 × 160	CA36R	2CPX052242R9999	
		6	216	1 100 × 800 × 160	CA37R	2CPX052243R9999	
		7	252	1 250 × 800 × 160	CA38R	2CPX052244R9999	
 **CA45R**	4 (2/2)	4	192	800 × 1 050 × 160	CA45R	2CPX052245R9999	
For rail mounting devices with N/PE screw terminals, DIN rail spacing 150 mm with closing flange							
 **CA34RZ1**	1	3	36	650 × 300 × 160	CA14RZ1	2CPX052277R9999	
		4	48	800 × 300 × 160	CA15RZ1	2CPX052278R9999	
		5	60	950 × 300 × 160	CA16RZ1	2CPX052279R9999	
	2	2	48	500 × 550 × 160	CA23RZ1	2CPX052280R9999	
		3	72	650 × 550 × 160	CA24RZ1	2CPX052281R9999	
		4	96	800 × 550 × 160	CA25RZ1	2CPX052282R9999	
		5	120	950 × 550 × 160	CA26RZ1	2CPX052283R9999	
	3 (2/1)	3	108	650 × 800 × 160	CA34RZ1	2CPX052285R9999	
		4	144	800 × 800 × 160	CA35RZ1	2CPX052286R9999	
		5	180	950 × 800 × 160	CA36RZ1	2CPX052287R9999	
		6	216	1 100 × 800 × 160	CA37RZ1	2CPX052288R9999	
	4 (2/2)	4	192	800 × 1 050 × 160	CA45RZ1	2CPX052289R9999	

Subdistribution boards

ComfortLine Compact CA distribution boards

For wall-mounting with distribution panels and sheet steel door

Article	PW	GU	RK/REG	SU	External dimensions H × W × D (mm)	Type	Order code	Price
For rail mounting devices (REG) and terminal blocks (RK), DIN rail spacing 125 mm								
 **CA25K**	2	5	2/3	72	800 × 550 × 160	CA25K	2CPX052290R9999	
		6	2/4	96	950 × 550 × 160	CA26K	2CPX052291R9999	
		7	3/4	96	1 100 × 550 × 160	CA27K	2CPX052292R9999	
		7	2/5	120	1 100 × 550 × 160	CA27K2	2CPX052564R9999	
		8	3/5	120	1 250 × 550 × 160	CA28K	2CPX052293R9999	
 **CA35K**	3 (2/1)	5	2/3	108	800 × 800 × 160	CA35K	2CPX052294R9999	
		6	2/4	144	950 × 800 × 160	CA36K	2CPX052295R9999	
		7	3/4	144	1 100 × 800 × 160	CA37K	2CPX052296R9999	
		7	2/5	180	1 100 × 800 × 160	CA37K2	2CPX052565R9999	
		8	3/5	180	1 250 × 800 × 160	CA38K	2CPX052297R9999	
 **CA46K**	4 (2/2)	5	2/3	144	800 × 1050 × 160	CA45K	2CPX052298R9999	
		6	2/4	192	950 × 1050 × 160	CA46K	2CPX052299R9999	
		7	2/5	240	1100 x 1050 x160	CA47K2	2CPX052561R9999	
For rail mounting devices with N/PE quick terminals and mounting plate, DIN rail spacing 125 mm								
 **CA24VP**	2 (1/1)	4		48	650 × 550 × 160	CA24VP	2CPX052300R9999	
 **CA35VP**	3 (2/1)	5		120	800 × 800 × 160	CA35VP	2CPX052301R9999	

Subdistribution boards

ComfortLine Compact CA distribution boards

For wall-mounting with distribution panels and transparent door



CA25VT



CA25RT

Technical specifications	
Standards/regulations	DIN EN 61439-1/-3
Protection class	II, double insulated
	I, earthed in connection with earthing set (accessories)
Protection class	IP44
Mechanical impact strength	IK07
Rated current	I_{nA} up to 125 A

Product features	
Enclosures and doors	Made of sheet steel, colour white RAL 9016, powder-coated
	With depth level compensation
	One top mounted membrane flange per panel width
	Door opening angle 120°
	Double-wing doors on cabinets with three or more panel widths
	Doors with espagnolette closure and plastic window
	Plastic covers with quick-action screw
	With cable strain relief
Internal configuration options	DIN rail spacing 125 mm/150 m
	Panels for rail mounting devices with N/PE Quick-terminals
Delivery forms	Enclosure with door
	Labelling system included in the scope of delivery
Accessories	Cable entry covers
	Lock replacement parts

Subdistribution boards

ComfortLine Compact CA distribution boards

For wall-mounting with distribution panels and transparent door

Article	PW	GU	SU	External dimensions H x W x D (mm)	Type	Order code	Price
For rail mounting devices with N/PE quick terminals, DIN rail spacing 125 mm							
 **CA14VT**	1	4	48	650 × 300 × 160	CA14VT	2CPX052198R9999	
		5	60	800 × 300 × 160	CA15VT	2CPX052199R9999	
		6	72	950 × 300 × 160	CA16VT	2CPX052200R9999	
 **CA23VT**	2 (1/1)	3	72	500 × 550 × 160	CA23VT	2CPX052201R9999	
 **CA25VT**	2	4	96	650 × 550 × 160	CA24VT	2CPX052202R9999	
		5	120	800 × 550 × 160	CA25VT	2CPX052203R9999	
		6	144	950 × 550 × 160	CA26VT	2CPX052204R9999	
For rail mounting devices with N/PE quick terminals, DIN rail spacing 150 mm							
 **CA14RT**	1	3	36	650 × 300 × 160	CA14RT	2CPX052246R9999	
		4	48	800 × 300 × 160	CA15RT	2CPX052247R9999	
		5	60	950 × 300 × 160	CA16RT	2CPX052248R9999	
		6	72	1 100 × 300 × 160	CA17RT	2CPX052249R9999	
		7	84	1 250 × 300 × 160	CA18RT	2CPX052250R9999	
 **CA25RT**	2	2	48	500 × 550 × 160	CA23RT	2CPX052251R9999	
		3	72	650 × 550 × 160	CA24RT	2CPX052252R9999	
		4	96	800 × 550 × 160	CA25RT	2CPX052253R9999	
		5	120	950 × 550 × 160	CA26RT	2CPX052254R9999	
		6	144	1 100 × 550 × 160	CA27RT	2CPX052255R9999	
		7	168	1 250 × 550 × 160	CA28RT	2CPX052256R9999	
 **CA36RT**	3 (2/1)	3	108	650 × 800 × 160	CA34RT	2CPX052257R9999	
		4	144	800 × 800 × 160	CA35RT	2CPX052258R9999	
		5	180	950 × 800 × 160	CA36RT	2CPX052259R9999	
		6	216	1 100 × 800 × 160	CA37RT	2CPX052260R9999	
		7	252	1 250 × 800 × 160	CA38RT	2CPX052261R9999	
 **CA45RT**	4 (2/2)	4	192	800 × 1 050 × 160	CA45RT	2CPX052262R9999	

Subdistribution boards

ComfortLine Compact CA distribution boards
With distribution panels and media panel



Technical specifications	
Standards/regulations	DIN EN 61439-1/-3
Protection class	II, double insulated
	I, earthed in connection with earthing set (accessories)
Protection class	With sheet steel door IP44
	With sheet steel door ventilated IP30
	With sheet steel door ventilated and plastic insert IP30
Mechanical impact strength	IK07
Rated current	I_{nA} up to 125 A

Product features	
Enclosures and doors	Made of sheet steel, colour white RAL 9016, powder-coated
	With depth level compensation
	One top mounted membrane flange per panel width
	Door opening angle 120°
	Double-wing doors on cabinets with three or more panel widths
	Doors with espagnolette closure
	Plastic covers for distribution board panels
	With cable strain relief
Internal configuration options	DIN rail spacing 125 mm
	Panels for rail mounting devices with N/PE Quick-terminals
	Perforated sheet steel mounting plates preassembled
Delivery forms	Enclosure with door
	Labelling system included in the scope of delivery
	Wire holders included in the scope of delivery
Accessories	Cable entry covers
	Lock replacement parts
	Power plugs
	Patchpanel

Subdistribution boards

ComfortLine Compact CA distribution boards
With distribution panels and media panel

Article	PW	GU	SU	External dimensions H × W × D (mm)	Type	Order code	Price
Multimedia enclosures for wall-mounting with integrated media panel, DIN rail spacing 125 mm							
 **CA24VM**	Sheet steel door IP44						
	2	3	36	500 × 550 × 160	CA23VM	2CPX052205R9999	
		4	48	650 × 550 × 160	CA24VM	2CPX052206R9999	
		5	60	800 × 550 × 160	CA25VM	2CPX052207R9999	
		6	72	950 × 550 × 160	CA26VM	2CPX052208R9999	
		7	84	1 100 × 550 × 160	CA27VM	2CPX052209R9999	
		8	96	1 250 × 550 × 160	CA28VM	2CPX052210R9999	
	Sheet steel door with ventilation holes IP30						
	2	4	48	650 × 550 × 160	CA24VML	2CPX052211R9999	
		5	60	800 × 550 × 160	CA25VML	2CPX052212R9999	
		6	72	950 × 550 × 160	CA26VML	2CPX052213R9999	
		7	84	1 100 × 550 × 160	CA27VML	2CPX052214R9999	
		8	96	1 250 × 550 × 160	CA28VML	2CPX052215R9999	
	Sheet steel door with ventilation holes and plastic inserts partially transparent white for improved WiFi signal IP30						
	2	4	48	650 × 550 × 160	CA24VMW	2CPX052220R9999	
		5	60	800 × 550 × 160	CA25VMW	2CPX052221R9999	
		6	72	950 × 550 × 160	CA26VMW	2CPX052222R9999	
		7	84	1 100 × 550 × 160	CA27VMW	2CPX052223R9999	
		8	96	1 250 × 550 × 160	CA28VMW	2CPX052224R9999	
 **CA35VML**	Sheet steel door with ventilation holes IP30						
	3 (2/1)	5	120	800 × 800 × 160	CA35VML	2CPX052216R9999	
		6	144	950 × 800 × 160	CA36VML	2CPX052217R9999	
		7	168	1 100 × 800 × 160	CA37VML	2CPX052218R9999	
		8	192	1 250 × 800 × 160	CA38VML	2CPX052219R9999	
	Sheet steel door with ventilation holes and plastic inserts partially transparent white for improved WiFi signal IP30						
	3 (2/1)	5	120	800 × 800 × 160	CA35VMW	2CPX052225R9999	
		6	144	950 × 800 × 160	CA36VMW	2CPX052226R9999	
		7	168	1 100 × 800 × 160	CA37VMW	2CPX052227R9999	
		8	192	1 250 × 800 × 160	CA38VMW	2CPX052228R9999	

Subdistribution boards

ComfortLine Compact CA distribution boards
For wall-mounting, empty cabinets with door



CA24

Technical specifications	
Standards/regulations	DIN EN 61439-1/-3
Protection class	II, double insulated
	I, earthed in connection with earthing set (accessories)
Protection class	With sheet steel door up to IP44
	Without door IP30*
Mechanical impact strength	IK07
Rated current	I_{nA} up to 125 A

Product features	
Enclosures and doors	Made of sheet steel, colour white RAL 9016, powder-coated
	With depth level compensation
	One top mounted membrane flange per panel width
	Door opening angle 120°
	Double-wing doors on cabinets with three or more panel widths
	Doors with espagnolette closure
	With cable strain relief
Internal configuration options	Prepared to be fitted with CombiLine modules, distribution panels and media panels
	Without N/PE Quick-terminals
Delivery forms	Enclosure with door
Accessories	Cable entry covers
	Lock replacement parts
	Media panels
	Distribution panels
	CombiLine modules

* For an internal configuration as sub-distribution board with distribution panels or CombiLine modules

Subdistribution boards

ComfortLine Compact CA distribution boards

For wall-mounting, empty cabinets with door

Article	PW	GU	SU	External dimensions H × W × D (mm)	Type	Order code	Price
	1	3	36	500 × 300 × 160	CA13	2CPX052142R9999	
		4	48	650 × 300 × 160	CA14	2CPX052143R9999	
		5	60	800 × 300 × 160	CA15	2CPX052144R9999	
		6	72	950 × 300 × 160	CA16	2CPX052145R9999	
		7	84	1 100 × 300 × 160	CA17	2CPX052146R9999	
		8	96	1 250 × 300 × 160	CA18	2CPX052147R9999	
CA13							
	2	3	72	500 × 550 × 160	CA23	2CPX052148R9999	
		4	96	650 × 550 × 160	CA24	2CPX052149R9999	
		5	120	800 × 550 × 160	CA25	2CPX052150R9999	
		6	144	950 × 550 × 160	CA26	2CPX052151R9999	
		7	168	1 100 × 550 × 160	CA27	2CPX052152R9999	
		8	192	1 250 × 550 × 160	CA28	2CPX052153R9999	
CA24							
	3	4	144	650 × 800 × 160	CA34	2CPX052154R9999	
		5	180	800 × 800 × 160	CA35	2CPX052155R9999	
		6	216	950 × 800 × 160	CA36	2CPX052156R9999	
		7	252	1 100 × 800 × 160	CA37	2CPX052157R9999	
		8	288	1 250 × 800 × 160	CA38	2CPX052158R9999	
CA35							
	4	5	240	800 × 1 050 × 160	CA45	2CPX052159R9999	
		6	288	950 × 1 050 × 160	CA46	2CPX052160R9999	
CA46							

> CombiLine modules and distribution panels, see main catalogue

> For an internal configuration with distribution panels or CombiLine modules in the lock area leave 2 SU empty

Subdistribution boards

ComfortLine Compact CA distribution boards
For wall-mounting, empty cabinets without door



CA24B

Technical specifications	
Standards/regulations	DIN EN 61439-1/-3
Protection class	II, double insulated
	I, earthed in connection with earthing set (accessories)
Protection class	With sheet steel door IP44
	With transparent door IP44
	With ventilation holes IP30
	With plastic insert and ventilation holes (WiFi-door) IP30
	Without door IP30*
Mechanical impact strength	IK07
Rated current	I_{nA} up to 125 A

Product features	
Enclosures and doors	Made of sheet steel, colour white RAL 9016, powder-coated
	With depth level compensation
	One top mounted membrane flange per panel width
	With cable strain relief
Internal configuration options	Prepared to be fitted with CombiLine modules, distribution panels and media panels
	Without N/PE Quick-terminals
Delivery forms	Enclosure without door
Accessories	Cable entry covers
	Lock replacement parts
	Sheet steel- and transparent doors
	Media panels
	Distribution panels
	CombiLine modules

* For an internal configuration as sub-distribution board with distribution panels or CombiLine modules

Subdistribution boards

ComfortLine Compact CA distribution boards

For wall-mounting, empty cabinets without door

Article	PW	GU	SU	External dimensions H × W × D (mm)	Type	Order code	Price
 **CA13B**	1	3	36	500 × 300 × 160	CA13B	2CPX052161R9999	
		4	48	650 × 300 × 160	CA14B	2CPX052162R9999	
		5	60	800 × 300 × 160	CA15B	2CPX052163R9999	
		6	72	950 × 300 × 160	CA16B	2CPX052164R9999	
		7	84	1 100 × 300 × 160	CA17B	2CPX052165R9999	
		8	96	1 250 × 300 × 160	CA18B	2CPX052166R9999	
 **CA24B**	2	3	72	500 × 550 × 160	CA23B	2CPX052167R9999	
		4	96	650 × 550 × 160	CA24B	2CPX052168R9999	
		5	120	800 × 550 × 160	CA25B	2CPX052169R9999	
		6	144	950 × 550 × 160	CA26B	2CPX052170R9999	
		7	168	1 100 × 550 × 160	CA27B	2CPX052171R9999	
		8	192	1 250 × 550 × 160	CA28B	2CPX052172R9999	
 **CA35B**	3	4	144	650 × 800 × 160	CA34B	2CPX052173R9999	
		5	180	800 × 800 × 160	CA35B	2CPX052174R9999	
		6	216	950 × 800 × 160	CA36B	2CPX052175R9999	
		7	252	1 100 × 800 × 160	CA37B	2CPX052176R9999	
		8	288	1 250 × 800 × 160	CA38B	2CPX052177R9999	
 **CA46B**	4	5	240	800 × 1 050 × 160	CA45B	2CPX052178R9999	
		6	288	950 × 1 050 × 160	CA46B	2CPX052179R9999	

> CombiLine modules and distribution panels, see main catalogue
> For an internal configuration with distribution panels or CombiLine modules in the lock area leave 2 SU empty

Subdistribution boards

ComfortLine Compact CA distribution boards
Accessories sheet steel and transparent doors

Article	PW	GU	To be used with cabinet	Door without closure			Door with closure		
				Type	Order code	Price	Type	Order code	Price
Sheet steel doors*1									
 **CTB24S**	1	3	CA13, ...	-	-		CTB13S	2CPX052318R9999	
		4	CA14, ...	-	-		CTB14S	2CPX052321R9999	
		5	CA15, ...	-	-		CTB15S	2CPX052324R9999	
		6	CA16, ...	-	-		CTB16S	2CPX052327R9999	
		7	CA17, ...	-	-		CTB17S	2CPX052330R9999	
		8	CA18, ...	-	-		CTB18S	2CPX052333R9999	
	2	3	CA23, ...	-	-		CTB23S	2CPX052319R9999	
		4	CA24, ...	-	-		CTB24S	2CPX052322R9999	
		5	CA25, ...	-	-		CTB25S	2CPX052325R9999	
		6	CA26, ...	-	-		CTB26S	2CPX052328R9999	
		7	CA27, ...	-	-		CTB27S	2CPX052331R9999	
		8	CA28, ...	-	-		CTB28S	2CPX052334R9999	
	3*2	4	CA34, ...	CTB14	2CPX052306R9999		CTB24S	2CPX052322R9999	
		5	CA35, ...	CTB15	2CPX052308R9999		CTB25S	2CPX052325R9999	
		6	CA36, ...	CTB16	2CPX052310R9999		CTB26S	2CPX052328R9999	
		7	CA37, ...	CTB17	2CPX052312R9999		CTB27S	2CPX052331R9999	
		8	CA38, ...	CTB18	2CPX052314R9999		CTB28S	2CPX052334R9999	
	4*2	5	CA45, ...	CTB25	2CPX052309R9999		CTB25S	2CPX052325R9999	
		6	CA46, ...	CTB26	2CPX052311R9999		CTB26S	2CPX052328R9999	
Transparent doors*1									
 **CTT24S**	1	3	CA13, ...	-	-		CTT13S	2CPX052353R9999	
		4	CA14, ...	-	-		CTT14S	2CPX052356R9999	
		5	CA15, ...	-	-		CTT15S	2CPX052359R9999	
		6	CA16, ...	-	-		CTT16S	2CPX052362R9999	
		7	CA17, ...	-	-		CTT17S	2CPX052365R9999	
		8	CA18, ...	-	-		CTT18S	2CPX052368R9999	
	2	3	CA23, ...	-	-		CTT23S	2CPX052354R9999	
		4	CA24, ...	-	-		CTT24S	2CPX052357R9999	
		5	CA25, ...	-	-		CTT25S	2CPX052360R9999	
		6	CA26, ...	-	-		CTT26S	2CPX052363R9999	
		7	CA27, ...	-	-		CTT27S	2CPX052366R9999	
		8	CA28, ...	-	-		CTT28S	2CPX052369R9999	
	3*2	4	CA34, ...	CTT14	2CPX052341R9999		CTT24S	2CPX052357R9999	
		5	CA35, ...	CTT15	2CPX052343R9999		CTT25S	2CPX052360R9999	
		6	CA36, ...	CTT16	2CPX052345R9999		CTT26S	2CPX052363R9999	
		7	CA37, ...	CTT17	2CPX052347R9999		CTT27S	2CPX052366R9999	
		8	CA38, ...	CTT18	2CPX052349R9999		CTT28S	2CPX052369R9999	
	4*2	5	CA45, ...	CTT25	2CPX052344R9999		CTT25S	2CPX052360R9999	
		6	CA46, ...	CTT26	2CPX052346R9999		CTT26S	2CPX052363R9999	

*1 For device rows located behind the lock, leave at least 2 SU empty
*2 Double-wing doors on cabinets with three or more panel widths

Subdistribution boards

ComfortLine Compact CA distribution boards

Accessories sheet steel doors with ventilation holes and plastic insert

Article	PW	GU	To be used with cabinet	Door without closure Type	Order code	Price	Door with closure Type	Order code	Price
Sheet steel doors with ventilation holes*1									
 **CTL24S**	1	3	CA13, ...	-	-		CTL13S	2CPX052374R9999	
		4	CA14, ...	-	-		CTL14S	2CPX052376R9999	
		5	CA15, ...	-	-		CTL15S	2CPX052378R9999	
		6	CA16, ...	-	-		CTL16S	2CPX052380R9999	
		7	CA17, ...	-	-		CTL17S	2CPX052382R9999	
		8	CA18, ...	-	-		CTL18S	2CPX052484R9999	
	2	3	CA23, ...	-	-		CTL23S	2CPX052375R9999	
		4	CA24, ...	-	-		CTL24S	2CPX052377R9999	
		5	CA25, ...	-	-		CTL25S	2CPX052379R9999	
		6	CA26, ...	-	-		CTL26S	2CPX052381R9999	
		7	CA27, ...	-	-		CTL27S	2CPX052383R9999	
		8	CA28, ...	-	-		CTL28S	2CPX052485R9999	
	3*2	4	CA34, ...	-	-		CTL24S	2CPX052377R9999	
		5	CA35, ...	-	-		CTL25S	2CPX052379R9999	
		6	CA36, ...	-	-		CTL26S	2CPX052381R9999	
		7	CA37, ...	-	-		CTL27S	2CPX052383R9999	
		8	CA38, ...	-	-		CTL28S	2CPX052485R9999	
Sheet steel door with plastic insert and ventilation holes (WiFi-door)*1									
 **CTW24S**	1	3	CA13, ...	-	-		CTW13S	2CPX052388R9999	
		4	CA14, ...	-	-		CTW14S	2CPX052390R9999	
		5	CA15, ...	-	-		CTW15S	2CPX052392R9999	
		6	CA16, ...	-	-		CTW16S	2CPX052394R9999	
		7	CA17, ...	-	-		CTW17S	2CPX052396R9999	
		8	CA18, ...	-	-		CTW18S	2CPX052486R9999	
	2	3	CA23, ...	-	-		CTW23S	2CPX052389R9999	
		4	CA24, ...	-	-		CTW24S	2CPX052391R9999	
		5	CA25, ...	-	-		CTW25S	2CPX052393R9999	
		6	CA26, ...	-	-		CTW26S	2CPX052395R9999	
		7	CA27, ...	-	-		CTW27S	2CPX052397R9999	
		8	CA28, ...	-	-		CTW28S	2CPX052487R9999	
	3*2	4	CA34, ...	-	-		CTW24S	2CPX052391R9999	
		5	CA35, ...	-	-		CTW25S	2CPX052393R9999	
		6	CA36, ...	-	-		CTW26S	2CPX052395R9999	
		7	CA37, ...	-	-		CTW27S	2CPX052397R9999	
		8	CA38, ...	-	-		CTW28S	2CPX052487R9999	

*1 For device rows located behind the lock, leave at least 2 SU empty

*2 Double-wing doors on cabinets with three or more panel widths

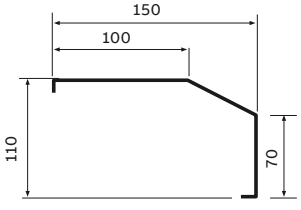
Subdistribution boards

ComfortLine Compact CA distribution boards

Accessories cable entry covers

Article		Pcs.	Type	Order code	Price
 **KB19**	**Cable entry covers** With end plates and fixing brackets, colour RAL 9016, matching the colour of the cabinets				
	Panel width 1, width 300 mm	1	KB19	2CPX044049R9999	
	Panel width 2, width 550 mm	1	KB29	2CPX044050R9999	
	Panel width 3, width 800 mm	1	KB39	2CPX044051R9999	
	Panel width 4, width 1050 mm	1	KB49	2CPX044052R9999	
 **KB219**	**Profile** Colour RAL 9016, height 2000 mm	1	KB219	2CPX044055R9999	
 **KBS9**	**End plate left/right** Colour RAL 9016	2	KBS9	2CPX044057R9999	
 **KBW1**	**Mounting bracket**	1	KBW1	2CPX044058R9999	





Cross section cable entry cover

> Dimensions in mm

Notes

Subdistribution boards

U Compact distribution boards for flush- and hollow-wall mounting*
With distribution panels and sheet steel door



U52K

Technical specifications	
Standards/regulations	DIN EN 61439-1/-3
Protection class	II, double insulated
	I, earthed in connection with earthing set (accessories)
Protection class	IP31
Mechanical impact strength	IK08
Rated current	I_{nA} up to 125 A

Product features	
Enclosures and doors	Made of sheet steel, colour white RAL 9016, powder-coated
	Door opening angle 120°
	Double-wing doors on cabinets with three or more panel widths
	Doors with espagnolette closure
	Plastic covers with quick-action screw
	With cable strain relief
Internal configuration options	DIN rail spacing 125 mm/150 mm
	Panels for rail mounting devices with N/PE Quick-terminals
	Panels for terminal blocks: without N/PE Quick-terminals and DIN rails in double insulated assembly
Delivery forms	Enclosure with trim frame and door
	Trim frame with adjustment to the plaster surface
	One nipple flange per panel width included in the scope of delivery
	Labelling system included in the scope of delivery
Accessories	Hollow-wall mounting set for flush-mounted consumer units
	Lock replacement parts

* In connection with hollow-wall mounting set ZKV200P4

Subdistribution boards

U Compact distribution boards for flush- and hollow-wall mounting*
With distribution panels and sheet steel door

Article	PW	GU	SU	Wall cut out dimensions H × W × D (mm)	Trim frame dimensions H × W × D (mm)	Type	Order code	Price
For DIN rail mounting devices, DIN rail spacing 125 mm								
 **U41**	1	4	48	684 × 310 × 120	694 × 354 × 27	U41	2CPX030101R9999	
		5	60	834 × 310 × 120	844 × 354 × 27	U51	2CPX030104R9999	
		6	72	984 × 310 × 120	994 × 354 × 27	U61	2CPX030110R9999	
 **U52**	2	4	96	684 × 560 × 120	694 × 604 × 27	U42	2CPX030102R9999	
		5	120	834 × 560 × 120	844 × 604 × 27	U52	2CPX030105R9999	
		6	144	984 × 560 × 120	994 × 604 × 27	U62	2CPX030111R9999	
		7	168	1 134 × 560 × 120	1 144 × 604 × 27	U72	2CPX030114R9999	
 **U42/2**	2 (1/1)	3	72	534 × 560 × 120	544 × 604 × 27	U32	2CPX030100R9999	
		4	96	684 × 560 × 120	694 × 604 × 27	U42/2	2CPX030118R9999	
		5	120	834 × 560 × 120	844 × 604 × 27	U52/2	2CPX030119R9999	
 **U53**	3 (2/1)	4	144	684 × 810 × 120	694 × 854 × 27	U43	2CPX030103R9999	
		5	180	834 × 810 × 120	844 × 854 × 27	U53	2CPX030107R9999	
		6	216	984 × 810 × 120	994 × 854 × 27	U63	2CPX071787R9999	
 **U54**	4 (2/2)	5	240	834 × 1 060 × 120	844 × 1 104 × 27	U54	2CPX071784R9999	

* In connection with hollow-wall mounting set ZKV200P4

Subdistribution boards

U Compact distribution boards for flush- and hollow-wall mounting*
With distribution panels and sheet steel door

Article	PW	GU	SU	Wall cut out dimensions H × W × D (mm)	Trim frame dimensions H × W × D (mm)	Type	Order code	Price
For DIN rail mounting devices, DIN rail spacing 150 mm								
 **U41R3**	1	3	36	684 × 310 × 120	694 × 354 × 27	U41R3	2CPX071708R9999	
		4	48	834 × 310 × 120	844 × 354 × 27	U51R4	2CPX071711R9999	
		5	60	984 × 310 × 120	994 × 354 × 27	U61R5	2CPX071715R9999	
 **U42R3**	2	2	48	534 × 560 × 120	544 × 604 × 27	U32R2	2CPX071707R9999	
		3	72	684 × 560 × 120	694 × 604 × 27	U42R3	2CPX071709R9999	
		4	96	834 × 560 × 120	844 × 604 × 27	U52R4	2CPX071712R9999	
		5	120	984 × 560 × 120	994 × 604 × 27	U62R5	2CPX071716R9999	
		6	144	1 134 × 560 × 120	1 144 × 604 × 27	U72R6	2CPX071718R9999	
 **U53R4**	3 (2/1)	3	108	684 × 810 × 120	694 × 854 × 27	U43R3	2CPX071710R9999	
		4	144	834 × 810 × 120	844 × 854 × 27	U53R4	2CPX071713R9999	
		5	180	984 × 810 × 120	994 × 854 × 27	U63R5	2CPX071717R9999	
		6	216	1 134 × 810 × 120	1 144 × 854 × 27	U73R6	2CPX071719R9999	
 **U54R4**	4 (2/2)	4	192	834 × 1 060 × 120	844 × 1 104 × 27	U54R4	2CPX071714R9999	

* In connection with hollow-wall mounting set ZKV200P4

Subdistribution boards

U Compact distribution boards for flush- and hollow-wall mounting*
With distribution panels and sheet steel door

Article	PW	GU	RK/REG	SU	Wall cut out dimensions H × W × D (mm)	Trim frame dimensions H × W × D (mm)	Type	Order code	Price
For rail mounting devices (REG) and terminal blocks (RK), DIN rail spacing 125 mm									
 **U52K**	2	5	2/3	72	834 × 560 × 120	844 × 604 × 27	U52K	2CPX030106R9999	
		6	2/4	96	984 × 560 × 120	994 × 604 × 27	U62K	2CPX030112R9999	
		7	3/4	96	1 134 × 560 × 120	1 144 × 604 × 27	U72K	2CPX030115R9999	
 **U53K**	3 (2/1)	5	2/3	108	834 × 810 × 120	844 × 854 × 27	U53K	2CPX030108R9999	
		6	2/4	144	984 × 810 × 120	994 × 854 × 27	U63K	2CPX030113R9999	
		7	3/4	144	1 134 × 810 × 120	1 144 × 854 × 27	U73K	2CPX030116R9999	
 **U54K**	4 (2/2)	5	2/4	144	834 × 1 060 × 120	844 × 1 104 × 27	U54K	2CPX030109R9999	
		6	3/4	192	984 × 1 060 × 120	994 × 1 104 × 27	U64K	2CPX030117R9999	
For DIN rail mounting devices and mounting plate, DIN rail spacing 125 mm									
 **U42M**	2 (1/1)	4		48	684 × 560 × 120	694 × 604 × 27	U42M	2CPX030146R9999	
 **U53M**	3 (2/1)	5		120	834 × 810 × 120	844 × 854 × 27	U53M	2CPX030147R9999	

* In connection with hollow-wall mounting set ZKV200P4

Subdistribution boards

U Compact distribution boards for flush- and hollow-wall mounting*
With distribution panels and transparent door



U52TR4

Technical specifications	
Standards/regulations	DIN EN 61439-1/-3
Protection class	II, double insulated
	I, earthed in connection with earthing set (accessories)
Protection class	IP31
Rated current	I_{nA} up to 125 A

Product features	
Enclosures and doors	Made of sheet steel, colour white RAL 9016, powder-coated
	One top mounted membrane flange per panel width
	Door opening angle 120°
	Double-wing doors on cabinets with three or more panel widths
	Doors with espagnolette closure and plastic window
	Plastic covers with quick-action screw
	With cable strain relief
Internal configuration options	DIN rail spacing 125 mm/150 mm
	Panels for rail mounting devices with N/PE Quick-terminals
Delivery forms	Enclosure with trim frame and door
	Trim frame with adjustment to the plaster surface
	One nipple flange per panel width included in the scope of delivery
	Labelling system included in the scope of delivery
Accessories	Hollow-wall mounting set for flush-mounted consumer units
	Lock replacement parts

* In connection with hollow-wall mounting set ZKV200P4

Subdistribution boards

U Compact distribution boards for flush- and hollow-wall mounting*
With distribution panels and transparent door

Article	PW	GU	SU	Wall cut out dimensions H × W × D (mm)	Trim frame dimensions H × W × D (mm)	Type	Order code	Price
For DIN rail mounting devices, DIN rail spacing 125 mm								
 **U41TE**	1	4	48	684 × 310 × 120	694 × 354 × 27	U41TE	2CPX071592R9999	
		5	60	834 × 310 × 120	844 × 354 × 27	U51TE	2CPX071594R9999	
		6	72	984 × 310 × 120	994 × 354 × 27	U61TE	2CPX071596R9999	
 **U32TE**	2 (1/1)	3	72	534 × 560 × 120	544 × 604 × 27	U32TE	2CPX071591R9999	
 **U42TE**	2	4	96	684 × 560 × 120	694 × 604 × 27	U42TE	2CPX071593R9999	
		5	120	834 × 560 × 120	844 × 604 × 27	U52TE	2CPX071595R9999	
		6	144	984 × 560 × 120	994 × 604 × 27	U62TE	2CPX071597R9999	
For DIN rail mounting devices, DIN rail spacing 150 mm								
 **U41TR3**	1	3	36	684 × 310 × 120	694 × 354 × 27	U41TR3	2CPX071722R9999	
		4	48	834 × 310 × 120	844 × 354 × 27	U51TR4	2CPX071725R9999	
		5	60	984 × 310 × 120	994 × 354 × 27	U61TR5	2CPX071729R9999	
 **U42TR3**	2	2	48	534 × 560 × 120	544 × 604 × 27	U32TR2	2CPX071721R9999	
		3	72	684 × 560 × 120	694 × 604 × 27	U42TR3	2CPX071723R9999	
		4	96	834 × 560 × 120	844 × 604 × 27	U52TR4	2CPX071726R9999	
		5	120	984 × 560 × 120	994 × 604 × 27	U62TR5	2CPX071730R9999	
		6	144	1 134 × 560 × 120	1 144 × 604 × 27	U72TR6	2CPX071733R9999	
 **U53TR4**	3 (2/1)	3	108	684 × 810 × 120	694 × 854 × 27	U43TR3	2CPX071724R9999	
		4	144	834 × 810 × 120	844 × 854 × 27	U53TR4	2CPX071727R9999	
		5	180	984 × 810 × 120	994 × 854 × 27	U63TR5	2CPX071731R9999	
		6	216	1 134 × 810 × 120	1 144 × 854 × 27	U73TR6	2CPX071734R9999	
 **U54TR4**	4 (2/2)	4	192	834 × 1 060 × 120	844 × 1 104 × 27	U54TR4	2CPX071728R9999	

* In connection with hollow-wall mounting set ZKV200P4

Subdistribution boards

U Media enclosures for flush-mounting and hollow-wall mounting*
Compact distribution boards with distribution panels and media panel



Technical specifications	
Standards/regulations	DIN EN 61439-1/-3
Protection class	II, double insulated
	I, earthed in connection with earthing set (accessories)
Protection class	With sheet steel door IP31
	With sheet steel door ventilated IP30
	With sheet steel door ventilated and plastic insert IP30
Mechanical impact strength	IK07
Rated current	I_{nA} up to 125 A

Product features	
Enclosures and doors	Made of sheet steel, colour white RAL 9016, powder-coated
	Door opening angle 120°
	Double-wing doors on cabinets with three or more panel widths
	Doors with espagnolette closure
	Plastic covers for distribution board panels
	With cable strain relief
Internal configuration options	DIN rail spacing 125 mm
	Panels for rail mounting devices with N/PE Quick-terminals
	Perforated sheet steel mounting plates preassembled
Delivery forms	Enclosure with trim frame and door
	Trim frame with adjustment to the plaster surface
	One nipple flange per panel width included in the scope of delivery
	Labelling system included in the scope of delivery
	Wire holder included in the scope of delivery
Accessories	Hollow-wall mounting set for flush-mounted consumer units
	Lock replacement parts
	Safety contact sockets
	Patchpanel

* In connection with hollow-wall mounting set ZKV200P4

Subdistribution boards

U Media enclosures for flush-mounting and hollow-wall mounting*
Compact distribution boards with distribution panels and media panel

Article	PW	GU	SU	Wall cut out dimensions H × W × D (mm)	Trim frame dimensions H × W × D (mm)	Type	Order code	Price
Media enclosures for flush- and hollow-wall mounting* with media panel, DIN rail spacing 125 mm								
 **U42MM**	With sheet steel door, IP31							
	2	3	36	534 × 560 × 120	544 × 604 × 27	U32MM	2CPX030088R9999	
		4	48	684 × 560 × 120	694 × 604 × 27	U42MM	2CPX030160R9999	
		5	60	834 × 560 × 120	844 × 604 × 27	U52MM	2CPX030161R9999	
		6	72	984 × 560 × 120	994 × 604 × 27	U62MM	2CPX030162R9999	
	Sheet steel door with ventilation holes IP30							
	2	4	48	684 × 560 × 120	694 × 604 × 27	U42MML	2CPX030290R9999	
		5	60	834 × 560 × 120	844 × 604 × 27	U52MML	2CPX030291R9999	
		6	72	984 × 560 × 120	994 × 604 × 27	U62MML	2CPX030292R9999	
	Sheet steel door ventilated with plastic insert, partially transparent white for improved WiFi-signal, IP30							
	2	4	48	684 × 560 × 120	694 × 604 × 27	U42MMW	2CPX030683R9999	
		5	60	834 × 560 × 120	844 × 604 × 27	U52MMW	2CPX030684R9999	
		6	72	984 × 560 × 120	994 × 604 × 27	U62MMW	2CPX030685R9999	

* In connection with hollow-wall mounting set ZKV200P4

Subdistribution boards

U Compact distribution boards for flush- and hollow-wall mounting*
With distribution panels and picture frame door or control panel

Article	PW	GU	SU	Wall cut out dimensions H × W × D (mm)	Trim frame dimensions H × W × D (mm)	Type	Order code	Price
With picture frame door								
Aluminium anodized, DIN rail spacing 125 mm								
	2	4	96	684 × 560 × 120	716 × 625 × 25	U42D	2CPX038152R9999	
 **U42D**								
With control panel								
Unprinted and unwired, distribution board panel without cover and N/PE-rail								
	2	4	96	684 × 560 × 120	716 × 625 × 25	U42FPT	2CPX038151R9999	
 **U42FPT**								

* In connection with hollow-wall mounting set ZKV200P4



Example picture frame door
with decoration picture
(delivery without picture)



Example control panel
With layout and control lights
(delivery unprinted/unwired)

Notes

Subdistribution boards

UL Compact distribution boards for flush-mounting and hollow-wall mounting*
Empty cabinets without trim frame and door



UL42

Technical specifications	
Standards/regulations	DIN EN 61439-1/-3
Protection class	II, double insulated
	I, earthed in connection with earthing set (accessories)
Protection class	With sheet steel door IP31
	Mit Transparenter Tür IP31
	With ventilation holes IP30
	With plastic insert and ventilation holes (WiFi-door) IP30
	Without door IP30*[1]
Mechanical impact strength	IK07
Rated current	I_{nA} up to 125 A

Product features	
Enclosures and doors	Made of sheet steel, colour white RAL 9016, powder-coated
	With cable strain relief
Internal configuration options	Prepared to be fitted with CombiLine modules, distribution panels and media panels
	Without N/PE Quick-terminals
Delivery forms	Enclosure without door
	One nipple flange per panel width included in the scope of delivery
Accessories	Hollow-wall mounting set for flush-mounted consumer units
	Trim frame with sheet steel or transparent doors
	Lock replacement parts
	Media panels
	Distribution panels*[2]
	CombiLine modules*[2]

* In connection with hollow-wall mounting set ZKV200P4
*[1] For an internal configuration as sub-distribution board with distribution panels or CombiLine modules
*[2] Distribution panels und CombiLine modules, see main catalogue

Subdistribution boards

UL Compact distribution boards for flush-mounting and hollow-wall mounting*
Empty cabinets without door

Article	PW	GU	SU	Wall cut out dimensions H × W × D (mm)	Type	Order code	Price
Empty cabinets without door							
 **UL41**	1	4	48	684 × 310 × 120	UL41	2CPX030756R9999	
		5	60	834 × 310 × 120	UL51	2CPX030759R9999	
		6	72	984 × 310 × 120	UL61	2CPX030763R9999	
 **UL42**	2	3	72	534 × 560 × 120	UL32	2CPX030755R9999	
		4	96	684 × 560 × 120	UL42	2CPX030757R9999	
		5	120	834 × 560 × 120	UL52	2CPX030760R9999	
		6	144	984 × 560 × 120	UL62	2CPX030764R9999	
		7	168	1 134 × 560 × 120	UL72	2CPX030767R9999	
 **UL53**	3	4	144	684 × 810 × 120	UL43	2CPX030758R9999	
		5	180	834 × 810 × 120	UL53	2CPX030761R9999	
		6	216	984 × 810 × 120	UL63	2CPX030765R9999	
		7	252	1 134 × 810 × 120	UL73	2CPX030768R9999	
 **UL64**	4	5	240	834 × 1 060 × 120	UL54	2CPX030762R9999	
		6	288	984 × 1 060 × 120	UL64	2CPX030766R9999	

* In connection with hollow-wall mounting set ZKV200P4
> For an internal configuration with distribution panels or CombiLine modules in the lock area leave 2 SU empty

Subdistribution boards

UL Compact distribution boards for flush-mounting and hollow-wall mounting*
Trim frame with sheet steel and transparent door*2

Article	PW	GU	Trim frame dimensions H × W × D (mm)	To be used with ...	Type	Order code	Price
Trim frame with sheet steel door*2, Powder-coated white RAL 9016							
 **BLU42**	1	4	694 × 354 × 27	UL41	BLU41	2CPX031501R9999	
		5	844 × 354 × 27	UL51	BLU51	2CPX031504R9999	
		6	994 × 354 × 27	UL61	BLU61	2CPX031508R9999	
	2	3	544 × 604 x27	UL32	BLU32	2CPX031500R9999	
		4	694 × 604 × 27	UL42	BLU42	2CPX031502R9999	
		5	844x 604 × 27	UL52	BLU52	2CPX031505R9999	
		6	994 × 604 × 27	UL62	BLU62	2CPX031509R9999	
		7	1 144 × 604 × 27	UL72	BLU72	2CPX031511R9999	
	3*1	4	694 × 854 × 27	UL43	BLU43	2CPX031503R9999	
		5	844 × 854 × 27	UL53	BLU53	2CPX031506R9999	
		6	994 × 854 × 27	UL63	BLU63	2CPX031510R9999	
		7	1 144 × 854 × 27	UL73	BLU73	2CPX031512R9999	
	4*1	5	844 × 1 104 × 27	UL54	BLU54	2CPX031507R9999	
		6	994 × 1 104 × 27	UL64	BLU64	2CPX031513R9999	
Trim frame with transparent door*2							
BLT42	1	4	694 × 354 × 27	UL41	BLT41	2CPX030786R9999	
		5	844 × 354 × 27	UL51	BLT51	2CPX030789R9999	
		6	994 × 354 × 27	UL61	BLT61	2CPX030793R9999	
	2	3	544 × 604 × 27	UL32	BLT32	2CPX030785R9999	
		4	694 × 604 × 27	UL42	BLT42	2CPX030787R9999	
		5	844 × 604 × 27	UL52	BLT52	2CPX030790R9999	
		6	994 × 604 × 27	UL62	BLT62	2CPX030794R9999	
		7	1 144 × 604 × 27	UL72	BLT72	2CPX030797R9999	
	3*1	4	694 × 854 × 27	UL43	BLT43	2CPX030788R9999	
		5	844 × 854 × 27	UL53	BLT53	2CPX030791R9999	
		6	994 × 854 × 27	UL63	BLT63	2CPX030795R9999	
		7	1 144 × 854 × 27	UL73	BLT73	2CPX030798R9999	
	4*1	5	844 × 1 104 × 27	UL54	BLT54	2CPX030792R9999	
		6	994 × 1 104 × 27	UL64	BLT64	2CPX030796R9999	

* In connection with hollow-wall mounting set ZKV200P4
*1 Double-wing doors on cabinets with three or more panel widths
*2 For device rows located behind the lock, leave at least 2 SU empty

Subdistribution boards

Accessories for media enclosures

Trim frame with door, with ventilation holes and plastic insert

Article	PW	GU	Trim frame dimensions H x W x D (mm)	To be used with ...	Type	Order code	Price
Trim frame with sheet steel door with ventilation holes*²							
	1	4	694 × 354 × 27	U41	BLL41	2CPX063451R9999	
		5	844 × 354 × 27	U51	BLL51	2CPX063452R9999	
		6	994 × 354 × 27	U61	BLL61	2CPX063453R9999	
	2	3	544 × 604 x27	U32	BLL32	2CPX063454R9999	
		4	694 × 604 × 27	U42	BLL42	2CPX063455R9999	
		5	844x 604 × 27	U52	BLL52	2CPX063456R9999	
		6	994 × 604 × 27	U62	BLL62	2CPX063457R9999	
		7	1 144 × 604 × 27	U72	BLL72	2CPX063458R9999	
	3*¹	4	694 × 854 × 27	U43	BLL43	2CPX063459R9999	
		5	844 × 854 × 27	U53	BLL53	2CPX063460R9999	
		6	994 × 854 × 27	U63	BLL63	2CPX063461R9999	
		7	1 144 × 854 × 27	U73	BLL73	2CPX063462R9999	
	4*¹	5	844 × 1 104 × 27	U54	BLL54	2CPX063463R9999	
		6	994 × 1 104 × 27	U64	BLL64	2CPX063464R9999	
BLL52							
Trim frame with door and partially transparent plastic insert and ventilation holes (WiFi-door)*²							
	1	5	844 × 354 × 27	U51	BLW51	2CPX063438R9999	
		6	994 × 354 × 27	U61	BLW61	2CPX063439R9999	
	2	3	544 × 604 × 27	U32	BLW32	2CPX063440R9999	
		4	694 × 604 × 27	U42	BLW42	2CPX063441R9999	
		5	844x 604 × 27	U52	BLW52	2CPX063442R9999	
		6	994 × 604 × 27	U62	BLW62	2CPX063443R9999	
		7	1 144 × 604 × 27	U72	BLW72	2CPX063444R9999	
	3*¹	4	694 × 854 × 27	U43	BLW43	2CPX063445R9999	
		5	844 × 854 × 27	U53	BLW53	2CPX063446R9999	
		6	994 × 854 × 27	U63	BLW63	2CPX063447R9999	
		7	1 144 × 854 × 27	U73	BLW73	2CPX063448R9999	
	4*¹	5	844 × 1 104 × 27	U54	BLW54	2CPX063449R9999	
		6	994 × 1 104 × 27	U64	BLW64	2CPX063450R9999	
BLW52							

* In connection with hollow-wall mounting set ZKV200P4
*¹ Double-wing doors on cabinets with three or more panel widths
*² For device rows located behind the lock, leave at least 2 SU empty

Subdistribution boards

Compact distribution boards

Media panels for compact distribution boards empty cabinets

Article	PW	GU	Height x Width	SU	Additional GU for media	Pcs.	Type	Order code	Price
Media panels with perforated sheet steel mounting plates									
	1	3	450 × 250	-	-	1	1MM00	2CPX037485R9999	
		4	600 × 250	-	-	1	1MM0	2CPX037486R9999	
		5	750 × 250	-	-	1	1MM1	2CPX037487R9999	
		6	900 × 250	-	-	1	1MM2	2CPX037488R9999	
		7	1 050 × 250	-	-	1	1MM3	2CPX037489R9999	
		8	1 200 × 250	-	-	1	1MM4	2CPX052302R9999	
	2	4	600 × 500	-	-	1	2MM0	2CPX037490R9999	
		5	750 × 500	-	-	1	2MM1	2CPX037491R9999	
		6	900 × 500	-	-	1	2MM2	2CPX037492R9999	
		7	1 050 × 500	-	-	1	2MM3	2CPX037493R9999	
		8	1 250 × 500	-	-	1	2MM4	2CPX052303R9999	



1MM2

Media combination panels with perforated sheet steel mounting plates									
	1	5	750 × 250	24	3	1	1MMC12	2CPX037494R9999	
			750 × 250	36	2	1	1MMC13	2CPX037495R9999	
		6	900 × 250	24	4	1	1MMC22	2CPX037496R9999	
			900 × 250	36	3	1	1MMC23	2CPX037497R9999	
		7	1 050 × 250	24	5	1	1MMC32	2CPX037498R9999	
			1 050 × 250	36	4	1	1MMC33	2CPX037466R9999	
			1 050 × 250	48	3	1	1MMC34	2CPX037467R9999	
		8	1200 x 250	36	5	1	1MMC43	2CPX037468R9999	
			1200 x 250	48	4	1	1MMC44	2CPX037469R9999	

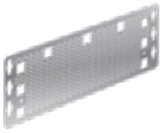
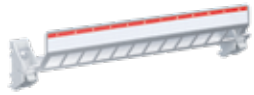


1MMC22

Subdistribution boards

Compact distribution boards

Accessories for CA/U and UL media enclosures

Article		Pcs.	Type	Order code	Price
 UZM61M	**Perforated sheet steel mounting plate** Made of sheet steel				
	1 Panel wide	1	UZM61M	2CPX031421R9999	
	2 Panel wide	1	UZM62M	2CPX031432R9999	
 ZX340	**Device holder made of rubber** For tool-free fastening of devices on the perforated perforated sheet steel mounting plate including 2 fastening hooks	1	ZX340	2CPX031422R9999	
 ZEP12	**Universal patch panel incl. holder*** with openings for Keystone and E-DAT modules				
	1 Panel wide for 12 Keystone or E-DAT modules	1	ZEP12	2CPX054072R9999	
	2 Panel wide for 26 Keystone or E-DAT modules	1	ZEP24	2CPX054073R9999	
 ZE336	**Patch panel incl. holder*** Empty for communication modules, e.g. RJ45-connector, COAX-module, etc. For direct or isolated mounting to the EDF-rail, DIN rail or mounting plate				
	For 6 Keystone-modules	1	ZE335	2CPX031423R9999	
	1 Panel wide for 12 Keystone-modules	1	ZE336	2CPX031424R9999	
	2 Panel wide for 24 Keystone-modules	1	ZE337	2CPX031425R9999	
	1 Panel wide for 12 E-Dat-modules	1	ZE332	2CPX031435R9999	
	2 Panel wide for 24 E-Dat-modules	1	ZE333	2CPX031436R9999	
 ZE338	**Patch panel holder**	1	ZE338	2CPX031426R9999	
 ZE225	**2-fold safety contact socket** 230 V AC, with EURO insert, for mounting to mounting bracket ZX29	1	ZE225	2CPX061177R9999	
 ZX29	**Mounting bracket for 2-fold safety contact socket ZE225** For clamping onto terminal carrier or for assembling to the perforated sheet steel plate of the media enclosure and the multimedia enclosure and the media panels 1MM…	1	ZX29	2CPX061178R9999	
 ZE227	**3-fold safety contact socket** 230 V AC with EURO-insert, 120° rotatable, latchable with cable inlet, screwable to mounting plate or clippable to DIN rail	1	ZE227	2CPX061211R9999	
 ZE339	**Media extension set** Set with device holder including 2 fastening hooks, Patch panel for 12 Keystone-modules* 3-fold safety contact sockets with Euro-inserts and wire holders	1	ZE339	2CPX038146R9999	

* For the dimensions of the knockouts for the Keystone- and E-Dat-modules, see page 18/37

Subdistribution boards

Compact distribution boards

Accessories for CA/U and UL media enclosures

Article		Pcs.	Type	Order code	Price
  ED44P10 ED45P10	**Wire holder** For cable routing, for plugging into the perforated sheet steel mounting plate				
	Installation depth 28.5 mm	10	ED44P10	2CPX062335R9999	
	Installation depth 55 mm	10	ED45P10	2CPX062336R9999	
 ZX287P10	**Screws** For the holes of the perforated sheet steel mounting plate 3.9 mm x 13 mm	10	ZX287P10	2CPX061180R9999	
  ZE311 ZE312	**Keystone-modules*** For installation in patch panels				
	RJ45-modules				
	Plastic	1	ZE311	2CPX038612R9999	
	Metal	1	ZE312	2CPX038613R9999	
  ZE316 ZE317	**COAX-module** F-connector/F-connector	1	ZE316	2CPX039246R9999	
	COAX-module F-connector/EC-connector	1	ZE317	2CPX039247R9999	
	COAX-module F-connector/IEC-connector	1	ZE318	2CPX039248R9999	
  ZE318 ZE319	**LC-module 1** Duplex-connector/Duplex-connector For multimode fibre Phosphor bronze sleeve	1	ZE319	2CPX039249R9999	
 ZE310	**Patch module RJ45** To snap onto DIN rail, 1 SU	1	ZE310	2CPX038625R9999	

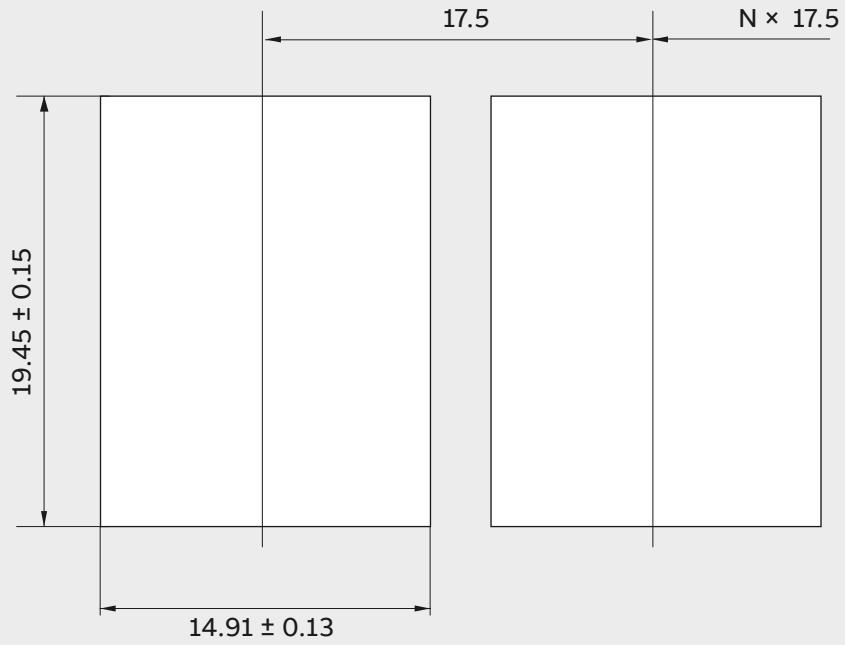
*For the dimensions of the knockouts for the Keystone- and E-Dat-Modules, see page 18/37

Subdistribution boards

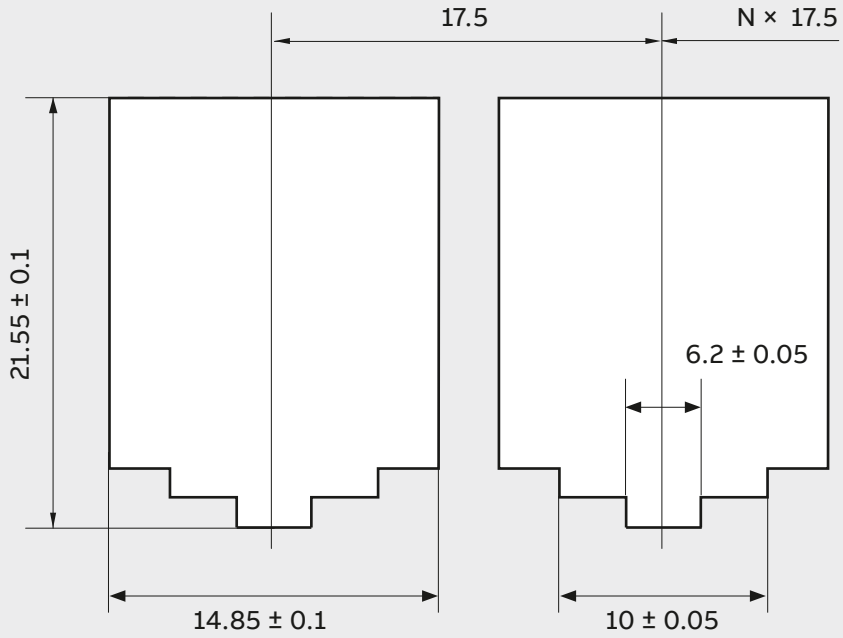
Compact distribution boards

Dimensions of the knockouts for the Keystone- and E-Dat-modules

Knockouts Keystone-modules



Knockouts E-Dat-modules



> Dimensions in mm

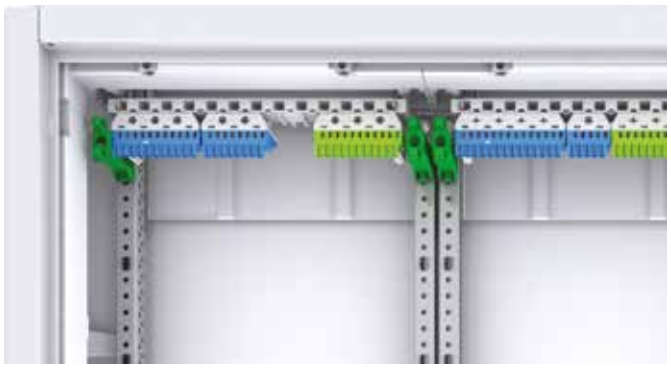
Subdistribution boards

N/PE Quick-terminals

Standard-compliant, concise, flexible

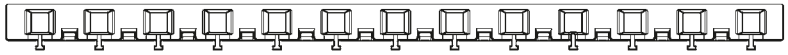
Configure as required

Due to the modularity and the extensive range of products, you can configure the products individually and practically. Depending on requirements, various Quick-terminals can be combined on a common terminal carrier. If a larger N or PE terminal block is required, two Quick-terminal blocks can be connected with the ZK10P10 connection bridge.



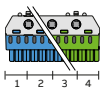
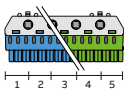
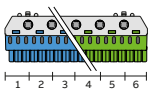
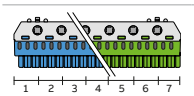
Product benefits

- Flexible terminal system for several N-potentials: Screw connection system: 2.5 to 25 mm² for rigid conductors; for flexible conductors up to 25 mm2 (ferrules required) Spring clamp system: 1.5 to 4 mm² for rigid conductors; for flexible conductors up to 2.5 mm2 (ferrules required)
- Optimal when using several residual current circuit breakers
- Simple expansion of the Quick-terminals with connecting bridges
- Unambiguous assignment of terminal blocks through clear colour coding: N = blue, PE = yellow-green
- Simple labelling of the terminal points with pre-printed, self-adhesive number strips
- Wide range of applications: In the consumer units of the UK600 and Mistral series, in all compact distribution boards and in all wall-mounting and floor-standing cabinets



Quick-carriers Type ZK19

Units

N/PE terminal blocks with units	N Quick- Terminals		Screw connection system	Spring clamp system	PE Quick- Terminals		Screw connection system	Spring clamp system
		ZK50B	0 × 25 mm²	5 × 1.5 - 4 mm²	-		-	-
		ZK51B	1 × 25 mm²	5 × 1.5 - 4 mm²		ZK51G	1 × 25 mm²	5 × 1.5 - 4 mm²
		ZK82B	2 × 25 mm²	8 × 1.5 - 4 mm²		ZK82G	2 × 25 mm²	8 × 1.5 - 4 mm²
		ZK113B	3 × 25 mm²	11 × 1.5 - 4 mm²		ZK113G	3 × 25 mm²	11 × 1.5 - 4 mm²
		ZK144B	4 × 25 mm²	14 × 1.5 - 4 mm²		ZK144G	4 × 25 mm²	14 × 1.5 - 4 mm²
		ZK175B	5 × 25 mm²	17 × 1.5 - 4 mm²		ZK175G	5 × 25 mm²	17 × 1.5 - 4 mm²
		ZK206B	6 × 25 mm²	20 × 1.5 - 4 mm²		ZK206G	6 × 25 mm²	20 × 1.5 - 4 mm²
		ZK50BT	0 × 25 mm²	5 × 1.5 - 4 mm²	-		-	-

Subdistribution boards

N/PE Quick-terminals

Accessories

Article	Number of terminals 1.5 - 4 mm²	Number of terminals 2,5 - 25 mm²	External dimensions H x W x D (mm)	Pcs.	Type	Order code	Price
N Quick-terminals For Quick-carriers							
 **ZK113B**	5 × 1.5 - 4	0 × 25	23 × 32 × 21	1	ZK50B	2CPX062750R9999	
	5 × 1.5 - 4	1 × 25	32 × 32 × 31	1	ZK51B	2CPX062751R9999	
	8 × 1.5 - 4	2 × 25	32 × 49 × 31	1	ZK82B	2CPX062752R9999	
	11 × 1.5 - 4	3 × 25	32 × 65 × 31	1	ZK113B	2CPX062753R9999	
	14 × 1.5 - 4	4 × 25	32 × 82 × 31	1	ZK144B	2CPX062754R9999	
	17 × 1.5 - 4	5 × 25	32 × 98 × 31	1	ZK175B	2CPX062755R9999	
	20 × 1.5 - 4	6 × 25	32 × 115 × 31	1	ZK206B	2CPX062756R9999	
	23 × 1.5 -4	7 × 25	32 × 132 × 31	1	ZK237B	2CPX063163R9999	
	26 × 1.5 -4	8 × 25	32 × 149 × 31	1	ZK268B	2CPX063164R9999	
N Quick-terminals with adapter ZK15 For lateral assembly in the UK600 and compact distribution board or to snap onto DIN rail							
 **ZK50BT**	5 × 1,5 - 4	0 × 25	28 × 39 × 25	1	ZK50BT	2CPX062745R9999	
PE Quick-terminals For Quick-carriers							
 **ZK113G**	5 × 1.5 - 4	1 × 25	32 × 32 × 31	1	ZK51G	2CPX062757R9999	
	8 × 1.5 - 4	2 × 25	32 × 49 × 31	1	ZK82G	2CPX062758R9999	
	11 × 1.5 - 4	3 × 25	32 × 65 × 31	1	ZK113G	2CPX062759R9999	
	14 × 1.5 - 4	4 × 25	32 × 82 × 31	1	ZK144G	2CPX062760R9999	
	17 × 1.5 - 4	5 × 25	32 × 98 × 31	1	ZK175G	2CPX062761R9999	
	20 × 1.5 - 4	6 × 25	32 × 115 × 31	1	ZK206G	2CPX062762R9999	
	23 × 1.5 – 4	7 × 25	32 × 132 × 31	1	ZK237G	2CPX063165R9999	
	26 × 1.5 – 4	8 × 25	32 × 149 × 31	1	ZK268G	2CPX063166R9999	

Article		Pcs.	Type	Order code	Price
 **ZK10P10**	**Connecting bridge** For Quick-terminals	10	ZK10P10	2CPX062763R9999	
 **ZK15**	**Adapter for ZK50B/ZK51B** By snapping the N Quick-terminal ZK50B/ZK51B into the adapter ZK15	1	ZK15	2CPX064984R9999	
	Quick-carrier				
 **ZK19**	**For wall-mounted compact distribution boards ComfortLine CA** Usable width for Quick-terminals 214 mm, 13 SU	1	ZK19	2CPX052456R9999	
 **ZK23**	**For wall-mounted compact distribution boards ComfortLine CA with 3 distribution rows** Usable width for Quick-terminals 214 mm, 13 SU	1	ZK23	2CPX054423R9999	
 **ZK13**	**For flush-mounted compact distribution boards U** Usable width for Quick-terminals 214 mm, 13 SU	1	ZK13	2CPX064982R9999	
 **CZ13**	**Holder for Quick-carrier for ComfortLine**	1	CZ13	2CPX052554R9999	
 **ZK19A**	**Quick-carrier without holder**	1	ZK19A	2CPX052562R9999	
 **ZK221**	**N/PE Quick-terminal set** **For wall-mounted compact distribution boards ComfortLine CA** Comprised of: Quick-carriers: ZK19 and Quick-terminals: ZK113B: N 3 x 25 + 11 x 4 mm² ZK82B: N 2 x 25 + 8 x 4 mm² ZK175G: PE 5 x 25 + 17 x 4 mm²	1	ZK221	2CPX052457R9999	
 **ZK222**	**For wall-mounted compact distribution boards ComfortLine CA with 3 distribution rows** Comprised of: Quick-carriers: ZK23 and Quick-terminals: ZK113B: N 3 x 25 + 11 x 4 mm² ZK82B: N 2 x 25 + 8 x 4 mm² ZK175G: PE 5 x 25 + 17 x 4 mm²	1	ZK222	2CPX054422R9999	
 **ZK220**	**For flush-mounted compact distribution boards U** Comprised of: Quick-carriers: ZK13 and Quick-terminals: ZK113B: N 3 x 25 + 11 x 4 mm² ZK82B: N 2 x 25 + 8 x 4 mm² ZK175G: PE 5 x 25 + 17 x 4 mm²	1	ZK220	2CPX063132R9999	

Subdistribution boards

ComfortLine Compact CA and U distribution boards

Accessories

Article		Pcs.	Type	Order code	Price
 CZT1 CZT2	**Standard closure*** Delivery contains	1	CZT1	2CPX052413R9999	
	Closure with lock With two keys	1	CZT2	2CPX052412R9999	
 CZT23	**Espagnolette closure*** In connection with standard closure CZT1 or closure with lock CZT2				
	Overall height 3 GU	1	CZT23	2CPX052423R9999	
	Overall height 4 GU	1	CZT24	2CPX052424R9999	
	Overall height 5 GU	1	CZT25	2CPX052425R9999	
	Overall height 6 GU	1	CZT26	2CPX052426R9999	
	Overall height 7 GU	1	CZT27	2CPX052427R9999	
	Overall height 8 GU	1	CZT28	2CPX052428R9999	
 CZT23H	**Espagnolette closure** In connection with swivel handle CZT5, CZT6, CZT7 and TZ503, TZ504, TZ505, TZ506, TZ507 and TZ508				
	Overall height 3 GU	1	CZT23H	2CPX052416R9999	
	Overall height 4 GU	1	CZT24H	2CPX052417R9999	
	Overall height 5 GU	1	CZT25H	2CPX052418R9999	
	Overall height 6 GU	1	CZT26H	2CPX052419R9999	
	Overall height 7 GU	1	CZT27H	2CPX052420R9999	
	Overall height 8 GU	1	CZT28H	2CPX052421R9999	
 CZT60	**Installation set*[1] *[2]** Of operating options in connection with TZ503, TZ504, TZ505, TZ506, TZ507 and TZ508	1	CZT60	2CPX052414R9999	
 TZ507	**Latch plate***[2]				
	Double bit operating pin, 3 mm standard and 5 mm (CZT60 to be ordered separately)	1	TZ507	2CPX010491R9999	
	For triangular and square operating pin and for Daimler-Benz insert (CZT60 to be ordered separately)	1	TZ508	2CPX010492R9999	
 ZH130  ZH132  ZH134  ZH137	**Operating Pin**				
	Double bit 3 mm	1	ZH130	2CPX060490R9999	
	Double bit 5 mm	1	ZH131	2CPX060491R9999	
	Triangular 7 mm	1	ZH132	2CPX060492R9999	
	Triangular 8 mm	1	ZH133	2CPX060493R9999	
	Square 6 mm	1	ZH134	2CPX060494R9999	
	Square 7 mm	1	ZH135	2CPX060495R9999	
	Square 8 mm	1	ZH136	2CPX060496R9999	
	Daimler-Benz insert	1	ZH137	2CPX060497R9999	

* Included in scope of delivery

*[1] For device rows located behind the lock, leave at least 2 SU empty

*[2] Espagnolette closure CZT...H to be ordered separately

Subdistribution boards

ComfortLine Compact CA and U distribution boards

Accessories

Article		Pcs.	Type	Order code	Price
 ZH157	**Operating keys**				
	Triangular 7 mm	1	ZH157	2CPX060657R9999	
	Triangular 8 mm	1	ZH158	2CPX060658R9999	
	Double bit 3 mm	1	ZH160	2CPX060660R9999	
	Double bit 5 mm	1	ZH161	2CPX060661R9999	
	Square 6 mm	1	ZH162	2CPX060662R9999	
	Square 7 mm	1	ZH163	2CPX060663R9999	
	Square 8 mm	1	ZH164	2CPX060664R9999	
	Daimler-Benz insert	1	ZH165	2CPX060665R9999	
 ZH91	**Universal key** Double bit 3 and 5 mm Triangular 8 mm Square 6 and 8 mm	1	ZH91	2CPX066091R9999	
 TZ503 TZ504	**Latch handle**[*1 *2 *3] With lock	1	TZ503	2CPX010487R9999	
	Latch handle[*1 *2 *3] Without lock	1	TZ504	2CPX010488R9999	
 TZ505 TZ506	**T-handle**[*1 *3] With lock	1	TZ505	2CPX010489R9999	
	T-handle[*1 *3] Without lock	1	TZ506	2CPX010490R9999	
 CZT7	**Swivel handle with lead sealable cap**[*1 *2] For semi-cylinder, 40 mm (30/10)	1	CZT5	2CPX052488R9999	
	Swivel handle with lead sealable cap[*1 *2] With closure EO 12	1	CZT6	2CPX052430R9999	
	Swivel handle with lead sealable cap[*1 *2] With cabinet handle Berlin, simultaneous locking	1	CZT7	2CPX052431R9999	
 ZH142	**Dummy insert** Instead of a semi-cylinder with a swivel handle CZT5	1	ZH142	2CPX060502R9999	
 CZ9A16	**Wire holder** For the side wiring duct in wall-mounted cabinets CA	16	CZ9A16	2CPX052556R9999	
 CZ12	**Depth Level Compensation*** For wall-mounted cabinets CA	2	CZ12	2CPX052553R9999	
 CZ15	**Accessory kit ComfortLine Compact CA*** Consisting of: 2x Depth level compensation 4x Cover caps for cabinet mounting screws	1	CZ15	2CPX052563R9999	

* Included in scope of delivery

[*1] For device rows located behind the lock, leave at least 2 SU empty

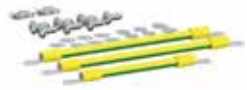
[*2] Espagnolette closure CZT...H to be ordered separately

[*3] Order installation set CZT60 seperately

Subdistribution boards

ComfortLine Compact CA and U distribution boards

Accessories

Article		Pcs.	Type	Order code	Price
 **ZKV200P4**	**Hollow-wall mounting set for flush-mounted cabinets U/UL** For U compact distribution boards subsequent conversion of a flush-mounted consumer unit into a hollow-wall consumer unit; Wall thickness min. 14 mm, max. 58 mm	1	ZKV200P4	2CPX062446R9999	
 **CZL61**	**Earthing set for wall-mounted cabinets CA** For the conversion to protection class 1	1	CZL61	2CPX052449R9999	
 **CZL62**	**Earthing set for flush-mounted cabinets U/UL** For the conversion to protection class 1	1	CZL62	2CPX052497R9999	
 **CZF1**	**Flange for cable entry for wall-mounted cabinets CA** 2 x 25.5 mm, 2 x 47.5 mm, 1 x 62 mm	1	CZF1	2CPX052435R9999	
 **CZF2**	**Membrane flange top for wall-mounted cabinets CA*** 34 x 12 mm, 9 x 15.5 mm, 6 x 19 mm, 2 x 40.5 mm, 2 x data line	1	CZF2	2CPX052436R9999	
 **CZF4**	**Flange for M screw fittings for wall-mounted cabinets CA** 10 x M16, 3 x M16/M20, 1 x M16/M20/M25, 1 x M16/M25/M32/M40/M50	1	CZF4	2CPX052438R9999	
 **ZB40**	**Nipple flange for flush-mounted cabinets U/UL*** Material Plastic for cable sections 1 x 12 up to 47 mm, 1 x 12 up to 29 mm, 3 x 8 up to 15 mm, 20 x 7 up to 13 mm	1	ZB40	2CPX038195R9999	
 **CZT10**	**Door hinge (plastic) for wall-mounted cabinets CA*** 1 set comprised of 1x hinge top-left/top-right/ bottom-left/bottom-right	1	CZT10	2CPX052415R9999	

* Included in scope of delivery

Subdistribution boards

ComfortLine Compact CA and U distribution boards

Accessories

Article		Pcs.	Type	Order code	Price
 ZX371	**Din rail for terminal blocks 35 x 7.5 mm** For the assembly between the mounting frame and the compact distribution board, flush mounted; For lowered assembly in conjunction with mounting bracket ZX372P2 and insulator ZK90P2				
	1 Panel wide	1	ZX371	2CPX068076R9999	
	2 Panel wide	1	ZX389	2CPX068190R9999	
 ED51	**Din rail for terminal blocks 35 x 15 mm** For the assembly between the mounting frame and the compact distribution board, wall mounted; For lowered assembly in conjunction with mounting bracket ZX372P2 and insulator ZK90P2				
	1 Panel wide	1	ED51	2CPX039251R9999	
	2 Panel wide	1	ED52	2CPX039252R9999	
 ZX21	**DIN rail 35 x 7.5 mm** For the assembly to the mounting frame, flush mounted				
	1 Panel wide	1	ZX21	2CPX039021R9999	
	2 Panel wide	1	ZX22	2CPX039022R9999	
 ED1	**DIN rail 35 x 15 mm** For the assembly to the mounting frame compact distribution board, wall mounted				
	1 Panel wide	1	ED1	2CPX039381R9999	
	2 Panel wide	1	ED2	2CPX039382R9999	
 ZK90P2	**Insulator for DIN rails** 35 x 7.5 mm and 35 x 15 mm with fastening material	2	ZK90P2	2CPX062426R9999	
 ZX372P2	**Mounting bracket** For ZK90P2	2	ZX372P2	2CPX062544R9999	
 ZB32P20	**Fastening screws for DIN rails**				
	Slotted/hexalobular socket pan head thread rolling screw T25 –	20	ZB32P20	2CPX062651R9999	
	Slotted/hexalobular socket pan head thread rolling screw T25 –	500	ZB32P500	2CPX062652R9999	
 ZK103P2	**Insulator**				
	for DIN rails between EDF and WR	2	ZK103P2	2CPX060644R9999	
	35 x 7.5 and 35 x 15 mm, incl. fastening material	100	ZK103P100	2CPX060645R9999	
 ED137P4	**Cover holder 45 mm (height) for compact distribution boards, flush mounted** For fastening (inserting, turning) to EDF-profile rail and for snapping onto a partition; For DIN rails 35 x 7.5 mm only use this cover holder	4	ED137P4	2CPX062600R9999	
		40	ED137P40	2CPX062601R9999	
 ED138P4	**Cover holder 52.5 mm (height) for compact distribution boards, wall mounted** For fastening (inserting, turning) to EDF-profile rail and for snapping onto a partition; For DIN rails 35 x 15 mm only use this cover holder	4	ED138P4	2CPX062630R9999	
		40	ED138P40	2CPX062603R9999	
 ED50P12	**Press and turn closure** For distribution board panel covers	12	ED50P12	2CPX062337R9999	
 ZA1P5	**Slot cover** Colour RAL 7035 for 12 space unit, break-off type	5	ZA1P5	2CPX062384R9999	
		50	ZA1P50	2CPX062378R9999	

Subdistribution boards

ComfortLine Compact CA and U distribution boards

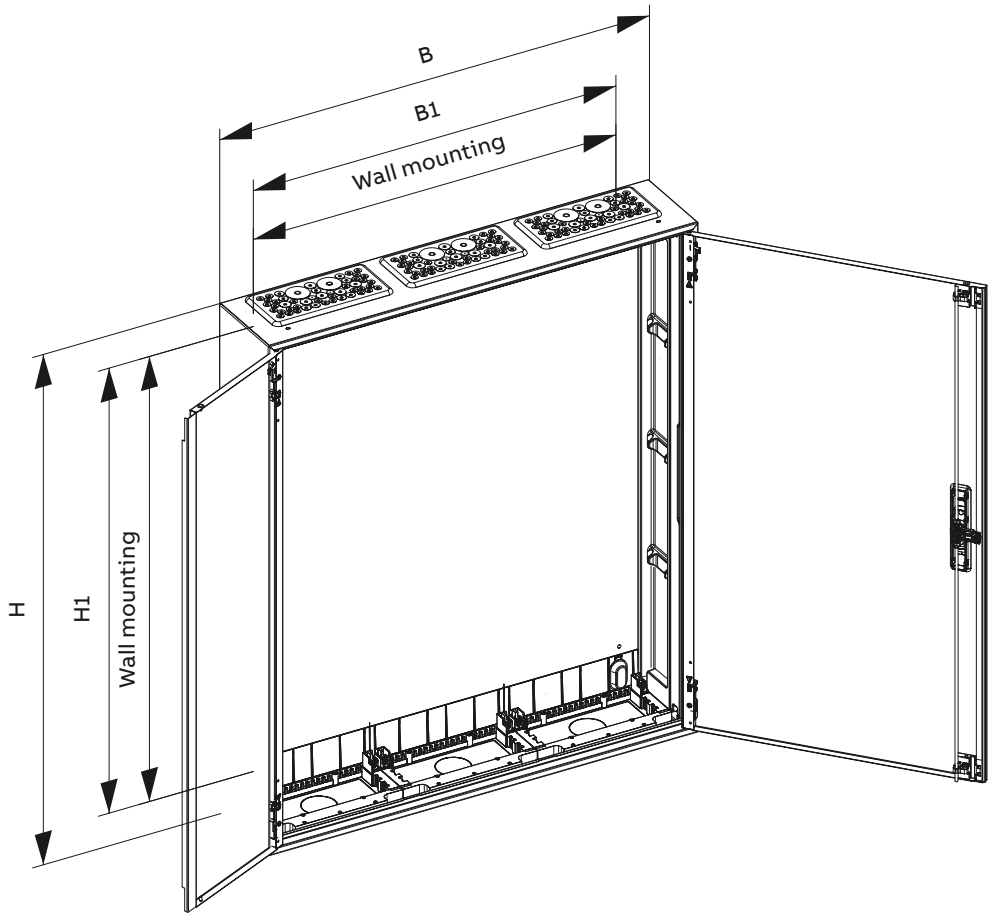
Accessories

Article		Pcs.	Type	Order code	Price
 **CZB113**	**Vertical partitions** Between distribution panels, not arc-resistant				
	Height 3 GU	1	CZB113	2CPX052450R9999	
	Height 4 GU	1	CZB114	2CPX052451R9999	
	Height 5 GU	1	CZB115	2CPX052452R9999	
	Height 6 GU	1	CZB116	2CPX052453R9999	
	Height 7 GU	1	CZB117	2CPX052454R9999	
	Height 8 GU	1	CZB118	2CPX052455R9999	
 **ZK300**	**Busbar system for N/PE** Cu 12 x 5 mm, max. connection 95 mm²				
	1 Panel wide	1	ZK300	2CPX038551R9999	
	2 Panel wide	1	ZK301	2CPX038552R9999	
 **ZX518**	**N/PE busbar holder** For Cu bars 12 x 5 mm, 20 x 5 mm, 30 x 5 mm	1	ZX518	2CPX067805R9999	
		10	ZX518P10	2CPX062551R9999	
 **ZX400**	**Copper bars** 12 x 5 mm = 250 A				
	Length 1 m		ZX400	2CPX061400R9999	
	Length 2 m		ZX401	2CPX061401R9999	
	Length 3 m		ZX402	2CPX061402R9999	
	Length 4 m		ZX350	2CPX061350R9999	
ZA6	**Document holder DIN A4** Self-adhesive, with transparent sleeve	1	ZA6	2CPX038227R9999	
		10	ZA6P10	2CPX062380R9999	
	Document holder DIN A4 Self-adhesive with transparent sleeve and reinforced back	10	ZA61P10	2CPX062375R9999	
 **ZA5**	**Document holder DIN A4** Self-adhesive	1	ZA13	2CPX038233R9999	
		10	ZA13P10	2CPX062381R9999	
	Document holder DIN A5 Self-adhesive	1	ZA5	2CPX038228R9999	
		10	ZA5P10	2CPX062382R9999	
 **ZKV201**	**Labelling system** Self-adhesive, for AT and U distribution boards	1	ZKV201	2CPX038148R9999	

Notes

Subdistribution boards

ComfortLine Compact CA distribution boards for wall-mounting
Technical specifications for planning and assembly

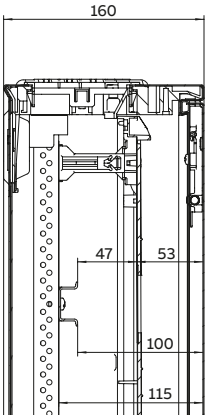


Typ	H	B	H1	B1
CA13…	500	300	428	175
CA14…	650	300	578	175
CA15…	800	300	728	175
CA16…	950	300	878	175
CA17…	1 100	300	1 028	175
CA18…	1 250	300	1 178	175
CA23…	500	550	428	425
CA24…	650	550	578	425
CA25…	800	550	728	425
CA26…	950	550	878	425
CA27…	1 100	550	1 028	425
CA28…	1 250	550	1 178	425
CA34…	650	800	578	675
CA35…	800	800	728	675
CA36…	950	800	878	675
CA37…	1 100	800	1 028	675
CA38…	1 250	800	1 178	675
CA45…	800	1 050	728	925
CA46…	950	1 050	878	925

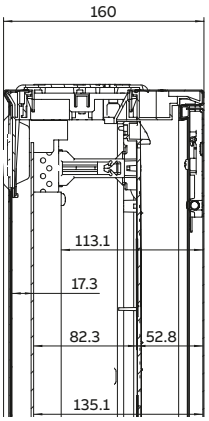
> Dimensions in mm

Subdistribution boards

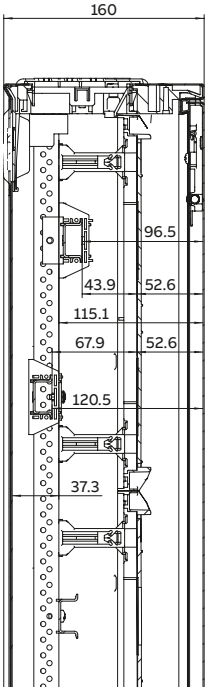
ComfortLine Compact CA distribution boards for wall-mounting
Technical specifications for planning and assembly



Distribution Panels



Mounting plate



Panels for teminals

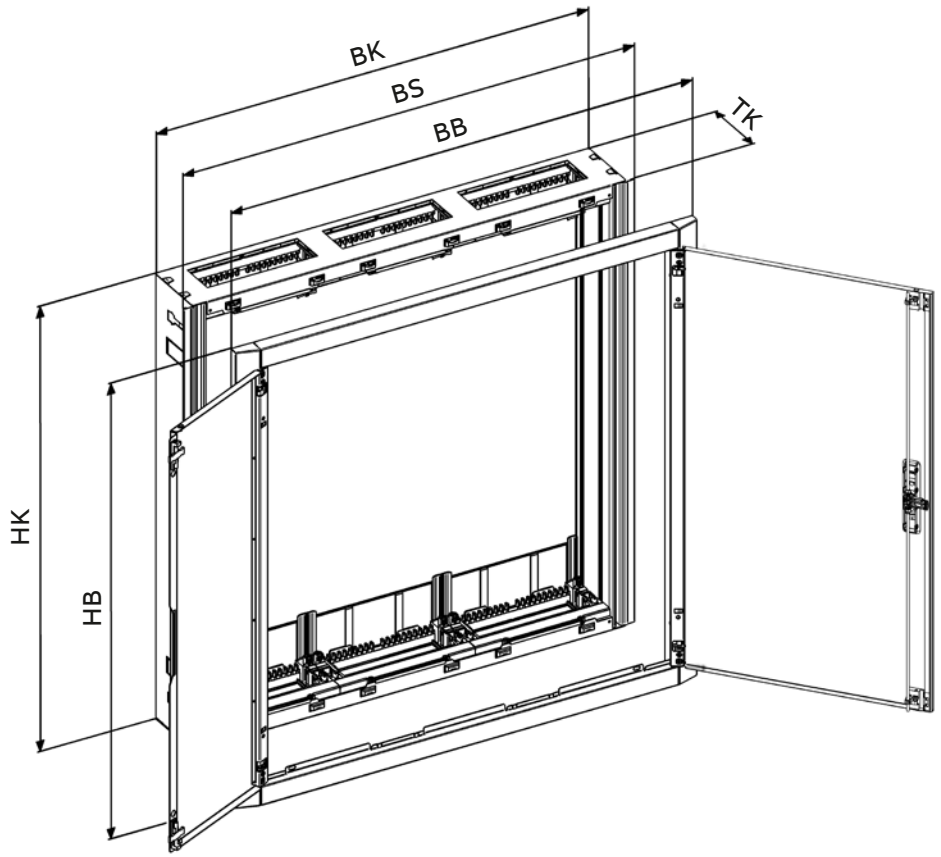
> Dimensions in mm

Type	Power loss (Watt) at overtemperature $\triangle t_{1.0}$ 20K
CA13	25 .90
CA13B	25 .90
CA13V	25 .90
CA14	31 .80
CA14B	31 .80
CA14R	31 .80
CA14RT	31 .80
CA14RZ1	31 .80
CA14V	31 .80
CA14VT	31 .80
CA15	37 .60
CA15B	37 .60
CA15R	37 .60
CA15RT	37 .60
CA15RZ1	37 .60
CA15V	37 .60
CA15VT	37 .60
CA16	43 .60
CA16B	43 .60
CA16R	43 .60
CA16RT	43 .60
CA16RZ1	43 .60
CA16V	43 .60
CA16VT	43 .60
CA23B	43 .50
CA23R	43 .50
CA23RT	43 .50
CA23RZ1	43 .50
CA23V	43 .50
CA23VM	43 .50
CA23VT	43 .50
CA24	52 .00
CA24B	52 .00
CA24R	52 .00
CA24RT	52 .00
CA24RZ1	52 .00
CA24V	52 .00
CA24V2	52 .00
CA24VM	52 .00
CA24VML	52 .00
CA24VMW	52 .00
CA24VP	52 .00
CA24VT	52 .00
CA25	60 .60
CA25B	60 .60
CA25K	60 .60
CA25R	60 .60
CA25RT	60 .60
CA25RZ1	60 .60
CA25V	60 .60
CA25V2	60 .60
CA25VM	60 .60
CA25VML	60 .60
CA25VMW	60 .60
CA25VT	60 .60

Type	Power loss (Watt) at overtemperature $\triangle t_{1.0}$ 20K
CA26	69 .30
CA26B	69 .30
CA26K	69 .30
CA26R	69 .30
CA26RT	69 .30
CA26RZ1	69 .30
CA26V	69 .30
CA26VM	69 .30
CA26VML	69 .30
CA26VMW	69 .30
CA26VT	69 .30
CA27	55 .40
CA27B	55 .40
CA27K	55 .40
CA27R	55 .40
CA27RT	55 .40
CA27V	55 .40
CA34	74 .20
CA34B	74 .20
CA34R	74 .20
CA34RT	74 .20
CA34RZ1	74 .20
CA34V	74 .20
CA35	61 .40
CA35B	61 .40
CA35K	61 .40
CA35R	61 .40
CA35RT	61 .40
CA35RZ1	61 .40
CA35V	61 .40
CA35VML	61 .40
CA35VMW	61 .40
CA35VP	61 .40
CA36	68 .00
CA36B	68 .00
CA36K	68 .00
CA36R	68 .00
CA36RT	68 .00
CA36RZ1	68 .00
CA36V	68 .00
CA36VML	68 .00
CA36VMW	68 .00
CA37	80 .60
CA37B	80 .60
CA37K	80 .60
CA37R	80 .60
CA37RT	80 .60
CA37RZ1	80 .60
CA45	84 .30
CA45B	84 .30
CA45K	84 .30
CA45R	84 .30
CA45RT	84 .30
CA45RZ1	84 .30
CA45V	84 .30
CA46	99 .60
CA46B	99 .60
CA46K	99 .60

Subdistribution boards

U/UL Compact distribution boards for flush- and hollow-wall mounting
Technical specifications for planning and assembly



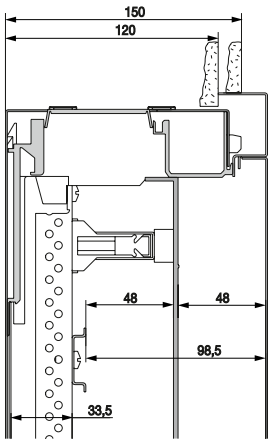
Typ	HK	BK	TK	HB	BB	BS
U32 ..., UL32	527	553	120	544	604	586
U41 ..., UL41	677	303	120	694	354	336
U42 ..., UL42	677	553	120	694	604	586
U43 ..., UL43	677	803	120	694	854	836
U51 ..., UL51	827	303	120	844	354	336
U52 ..., UL52	827	553	120	844	604	586
U53 ..., UL53	827	803	120	844	854	836
U54 ..., UL54	827	1 053	120	844	1 104	1 086
U61 ..., UL61	977	303	120	994	354	336
U62 ..., UL62	977	553	120	994	604	586
U63 ..., UL63	977	803	120	994	854	836
U64 ..., UL64	977	1 053	120	994	1 104	1 086
U72 ..., UL72	1 127	553	120	1 144	604	586
U73 ..., UL73	1 127	803	120	1 144	854	836

> Dimensions in mm

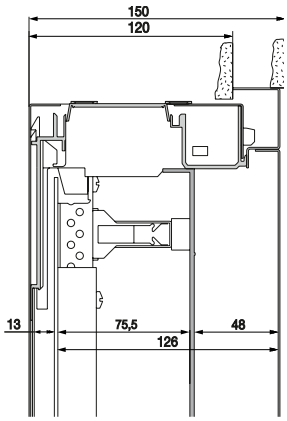
Subdistribution boards

U/UL Compact distribution boards for flush- and hollow-wall mounting

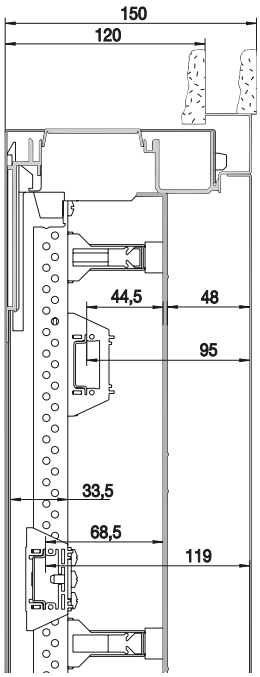
Technical specifications for planning and assembly



Distribution board panel



Mounting plate



Panels for terminals

Type	Weight (kg)	Power loss (Watt) at overtemperature $\Delta t_{1,0}$ 20K
U32	13.50	33.10
U32MM	12.50	33.10
U32R2	13.00	33.10
U32TE	12.50	33.10
U32TR2	11.00	33.10
U41	10.50	24.30
U41R3	10.50	24.30
U41TE	9.00	24.30
U41TR3	9.50	24.30
U42	15.50	40.10
U42/2	16.50	40.10
U42D	16.50	40.10
U42FPT	17.00	40.10
U42M	18.50	40.10
U42MM	18.00	40.10
U42MML	17.50	40.10
U42MMW	17.00	40.10
U42R3	16.00	40.10
U42TE	14.00	40.10
U42TR3	14.00	40.10
U43	22.50	57.40
U43R3	23.00	57.40
U43TR3	19.50	57.40
U51	12.50	28.40
U51R4	12.00	28.40
U51TE	12.00	28.40
U51TR4	10.50	28.40
U52	18.50	46.30
U52/2	19.00	46.30
U52K	18.50	46.30
U52MM	21.00	46.30
U52MML	20.00	46.30
U52MMW	20.00	46.30
U52R4	18.00	46.30
U52TE	16.00	46.30
U52TR4	16.00	46.30
U53	26.50	65.60
U53K	26.00	65.60
U53M	29.00	65.60
U53R4	26.50	65.60
U53TR4	22.00	65.60
U54	33.00	61.80
U54K	32.50	61.80
U54R4	33.50	61.80
U61	14.50	32.90
U61R5	14.50	32.90
U61TE	12.50	32.90
U61TR5	12.50	32.90
U62	22.00	53.10
U62K	22.00	53.10
U62MM	24.50	53.10
U62MML	24.00	53.10
U62MMW	22.50	53.10
U62R5	22.00	53.10
U62TE	19.00	53.10
U62TR5	19.00	53.10

Type	Weight (kg)	Power loss (Watt) at overtemperature $\Delta t_{1,0}$ 20K
U63	31.00	53.30
U63K	30.50	53.30
U63R5	31.50	53.30
U63TR5	26.00	53.30
U64K	38.00	68.30
U72	25.00	59.80
U72K	25.00	59.80
U72R6	26.00	59.80
U72TR6	21.50	59.80
U73K	35.00	62.30
U73R6	35.50	62.30
U73TR6	28.50	62.30

> Dimensions in mm

Subdistribution boards

ComfortLine A wall-mounting cabinets IP44

For wall-mounting



A37



A57B

Technical specifications	
Standards/regulations	DIN EN 61439-1/-2/-3
Protection class	II, double insulated
Protection class	With door IP44
	Without door IP30[1]
Mechanical impact strength	IK07
Rated current	$I_{(nA)}$ up to 250 A

Product features	
Enclosures and doors	Made of sheet steel, colour white RAL 9016, powder-coated
	With depth level compensation
	One top mounted membrane flange per panel width
	Door opening angle 120°
	Double-wing doors on cabinets with three or more panel widths
	Doors with espagnolette closure
	Flange openings pre-embossed at the bottom and sides
	With cable strain relief
Internal configuration options	Prepared to be fitted with distribution and media panels[2]
	Prepared to be fitted with CombiLine-M modules on the EDF mounting frame[2]
Delivery forms	Empty cabinets with and without door
	Also delivered is a flange for cable entry CZF1 for the lower connection area
Accessories	Cable entry covers
	Closures
	Doors

> Distribution board panels/combination sets CombiLine, see main catalogue

[1] For an internal configuration as sub-distribution board with distribution panels or CombiLine modules

[2] Fastening elements CZ11 for fastening distribution panels and CombiLine modules on the front level have to be ordered separately

Subdistribution boards

ComfortLine A wall-mounting cabinets IP44

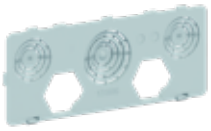
For wall-mounting

		Height			External dimensions	With door IP44			Without door IP30		
BH	GU	(mm)	PW	SU	H x W x D mm	Type	Order code	Price	Type	Order code	Price
00	3	500	1	36	500 x 300 x 215	A13	2CPX052010R9999		-	-	
			2	72	500 x 550 x 215	A23	2CPX052011R9999		-	-	
			3	108	500 x 800 x 215	A33	2CPX052012R9999		-	-	
			4	144	500 x 1050 x 215	A43	2CPX052013R9999		-	-	
			5	180	500 x 1300 x 215	A53	2CPX052014R9999		-	-	
0	4	650	1	48	650 x 300 x 215	A14	2CPX052015R9999		-	-	
			2	96	650 x 550 x 215	A24	2CPX052016R9999		-	-	
			3	144	650 x 800 x 215	A34	2CPX052017R9999		-	-	
			4	192	650 x 1050 x 215	A44	2CPX052018R9999		-	-	
			5	240	650 x 1300 x 215	A54	2CPX052019R9999		-	-	
1	5	800	1	60	800 x 300 x 215	A15	2CPX052020R9999		-	-	
			2	120	800 x 550 x 215	A25	2CPX052021R9999		-	--	
			3	180	800 x 800 x 215	A35	2CPX052022R9999		-	-	
			4	240	800 x 1050 x 215	A45	2CPX052023R9999		-	-	
			5	300	800 x 1300 x 215	A55	2CPX052024R9999		-	-	
2	6	950	1	72	950 x 300 x 215	A16	2CPX052025R9999		-	-	
			2	144	950 x 550 x 215	A26	2CPX052026R9999		-	-	
			3	216	950 x 800 x 215	A36	2CPX052027R9999		-	-	
			4	288	950 x 1050 x 215	A46	2CPX052028R9999		-	-	
			5	360	950 x 1300 x 215	A56	2CPX052029R9999		-	-	
3	7	1100	1	84	1100 x 300 x 215	A17	2CPX052030R9999		A17B	2CPX052083R9999	
			2	168	1100 x 550 x 215	A27	2CPX052031R9999		A27B	2CPX052084R9999	
			3	252	1100 x 800 x 215	A37	2CPX052032R9999		A37B	2CPX052085R9999	
			4	336	1100 x 1050 x 215	A47	2CPX052033R9999		A47B	2CPX052086R9999	
			5	420	1100 x 1300 x 215	A57	2CPX052034R9999		A57B	2CPX052087R9999	
4	8	1250	1	96	1250 x 300 x 215	A18	2CPX052035R9999		-	-	
			2	192	1250 x 550 x 215	A28	2CPX052036R9999		-	-	
			3	288	1250 x 800 x 215	A38	2CPX052037R9999		-	-	
			4	384	1250 x 1050 x 215	A48	2CPX052038R9999		-	-	
			5	480	1250 x 1300 x 215	A58	2CPX052039R9999		-	-	
5	9	1400	1	108	1400 x 300 x 215	A19	2CPX052040R9999		A19B	2CPX052088R9999	
			2	216	1400 x 550 x 215	A29	2CPX052041R9999		A29B	2CPX052089R9999	
			3	324	1400 x 800 x 215	A39	2CPX052042R9999		A39B	2CPX052090R9999	
			4	432	1400 x 1050 x 215	A49	2CPX052043R9999		A49B	2CPX052091R9999	
			5	540	1400 x 1300 x 215	A59	2CPX052044R9999		A59B	2CPX052092R9999	

Subdistribution boards

ComfortLine A wall-mounting cabinets

Accessories

Article		Pcs.	Type	Order code	Price
 **CZ2**	**Connection screws** For cabinet connections, 1 set	1	CZ2	CPX052460R9999	
 **CZ3**	**Insulating frame for cabinet to cabinet connections** For the side flange cut-outs (to guarantee the double insulation for cabinet to cabinet connections) (with connection material)	1	CZ3	2CPX052461R9999	
	For the connection of cabinets up to May 2020 with cabinets of the ComfortLine series	1	CZ3A	2CPX052560R9999	
 **CZ4**	**Insulating frame for cabinet to cabinet connections** For the upper/lower flange cut-outs (to guarantee the double insulation for cabinet to cabinet connections)	1	CZ4	2CPX052462R9999	
 **CZ6**	**Mounting frame** For lateral flange mounting	1	CZ6	2CPX052464R9999	
 **CZ1P4**	**External mounting brackets**	4	CZ1P4	2CPX052459R9999	
 **CZF1**	**Flange for cable entry** 2 x 25.5 mm, 2 x 47.5 mm, 1 x 62 mm	1	CZF1	2CPX052435R9999	
 **CZF1D**	**Theft protection** For CZF1	1	CZF1D	2CPX052555R9999	
 **CZF2**	**Membrane flange*** 34 x 12 mm, 9 x 15.5 mm, 6 x 19 mm, 2 x 40.5 mm, 2 x data line	1	CZF2	2CPX052436R9999	
 **CZF3**	**Closing flange**	1	CZF3	2CPX052437R9999	
 **CZF4**	**Flange for M screw fittings** 10 x M16, 3 x M16/M20, 1 x M16/M20/M25, 1 x M16/M25/M32/M40/M50	1	CZF4	2CPX052438R9999	

* Included in delivery

Subdistribution boards

ComfortLine A wall-mounting cabinets

Accessories

Article		Pcs.	Type	Order code	Price
 CZT1 CZT2	**Standard closure***	1	CZT1	2CPX052413R9999	
	Closure with lock With 2 keys	1	CZT2	2CPX052412R9999	
 CZT23	**Espagnolette closure*** In connection with standard closure CZT1 or closure with lock CZT2				
	Overall height 3 GU	1	CZT23	2CPX052423R9999	
	Overall height 4 GU	1	CZT24	2CPX052424R9999	
	Overall height 5 GU	1	CZT25	2CPX052425R9999	
	Overall height 6 GU	1	CZT26	2CPX052426R9999	
	Overall height 7 GU	1	CZT27	2CPX052427R9999	
	Overall height 8 GU	1	CZT28	2CPX052428R9999	
	Overall height 9 GU	1	CZT29	2CPX052429R9999	
 CZT60	**Installation set**[*1] Of operating options in connection with TZ503, TZ504, TZ505, TZ506, TZ507 and TZ508	1	CZT60	2CPX052414R9999	
 TZ507	**Latch plate**[*1]				
	Double bit operating pin, 3 mm standard and 5 mm (CZT60 to be ordered separately)	1	TZ507	2CPX010491R9999	
	For triangular and square operating pin and for Daimler-Benz insert (CZT60 to be ordered separately)	1	TZ508	2CPX010492R9999	
 ZH130 ZH132  ZH134 ZH137	**Operating Pin**				
	Double bit 3 mm	1	ZH130	2CPX060490R9999	
	Double bit 5 mm	1	ZH131	2CPX060491R9999	
	Triangular 7 mm	1	ZH132	2CPX060492R9999	
	Triangular 8 mm	1	ZH133	2CPX060493R9999	
	Square 6 mm	1	ZH134	2CPX060494R9999	
	Square 7 mm	1	ZH135	2CPX060495R9999	
	Square 8 mm	1	ZH136	2CPX060496R9999	
	Daimler-Benz insert	1	ZH137	2CPX060497R9999	
 CZF1B	**Accessory set ComfortLine A*** Consisting of: 1x Flange for cable entry 2x Depth Level Compensation 4x Cover caps for cabinet mounting screws	1	CZF1B	2CPX052447R9999	
 CZ11	**Fastening parts for CombiLine**				
	4 pieces	4	CZ11	2CPX052552R9999	
	20 × 4 pieces	80	CZ11P20	2CPX052559R9999	
	4 pieces assembled in cabinet, only in combination with assembled CombiLine modules	4	CZ11M	2CPX052558R9999	
 CZ12	**Depth Level Compensation** For wall-mounted cabinets	2	CZ12	2CPX052553R9999	

* Included in scope of delivery

*[1] Espagnolette closure CZT...H to be ordered separetely

Subdistribution boards

ComfortLine B wall-mounting cabinets

Accessories

Article		Pcs.	Type	Order code	Price
  TZ505 TZ506	**T-handle**[*1] [*2]				
	With latch plate, without lock	1	TZ506	2CPX010490R9999	
	With latch plate, with lock	1	TZ505	2CPX010489R9999	
  TZ503 TZ504	**Latch handle**[*1] [*2]				
	With latch plate, without lock	1	TZ504	2CPX010488R9999	
	With latch plate, with lock	1	TZ503	2CPX010487R9999	
 CZT7	**Swivel handle with lead sealable cap**[*2] For semi-cylinder, 40 mm (30/10)	1	CZT5	2CPX052488R9999	
	Swivel handle with lead sealable cap[*2] With closure EO 12	1	CZT6	2CPX052430R9999	
	Swivel handle with lead sealable cap[*2] With cabinet handle Berlin, simultaneous locking	1	CZT7	2CPX052431R9999	
 ZH142	**Dummy insert** Instead of a semi-cylinder	1	ZH142	2CPX060502R9999	
 CZT23H	**Espagnolette closure** In connection with swivel handle CZT5, CZT6, CZT7 and TZ503, TZ504, TZ505, TZ506, TZ507 and TZ508				
	Overall height 3 GU	1	CZT23H	2CPX052416R9999	
	Overall height 4 GU	1	CZT24H	2CPX052417R9999	
	Overall height 5 GU	1	CZT25H	2CPX052418R9999	
	Overall height 6 GU	1	CZT26H	2CPX052419R9999	
	Overall height 7 GU	1	CZT27H	2CPX052420R9999	
	Overall height 8 GU	1	CZT28H	2CPX052421R9999	
	Overall height 9 GU	1	CZT29H	2CPX052422R9999	
 CZT10	**Door hinge*** 1 set comprised of 1x hinge top-left/top-right/ bottom-left/bottom-right	1	CZT10	2CPX052415R9999	

*Included in scope of delivery

*[1] Order installation set CZT60 separetely

*[2] Order espagnolette closure CZT...H separetely

Subdistribution boards

ComfortLine B wall-mounting cabinets

Accessories

Article		Pcs.	Type	Order code	Price
CZB213	**Vertical partitions** Made of plastic, not arc-resistant				
	3 GU	1	CZB213	2CPX052498R9999	
	4 GU	1	CZB214	2CPX052499R9999	
	5 GU	1	CZB215	2CPX052500R9999	
	6 GU	1	CZB216	2CPX052501R9999	
	7 GU	1	CZB217	2CPX052502R9999	
	8 GU	1	CZB218	2CPX052503R9999	
	9 GU	1	CZB219	2CPX052504R9999	
 KB19	**Cable entry covers** With end plates and fixing brackets made of plastic, colour RAL9016 matching the colour of the cabinets				
	1 panel wide, Height 300 mm	1	KB19	2CPX044049R9999	
	2 panel wide, Height 550 mm	1	KB29	2CPX044050R9999	
	3 panel wide, Height 800 mm	1	KB39	2CPX044051R9999	
	4 panel wide, Height 1050 mm	1	KB49	2CPX044052R9999	
	5 panel wide, Height 1300 mm	1	KB59	2CPX044053R9999	
 KB219	**Profile** Plastic, colour RAL9016, width 2000 mm	1	KB219	2CPX044055R9999	
 KBS9	**End plate left/right** Plastic, colour RAL9016 1 set, 2 pcs.	1	KBS9	2CPX044057R9999	
 KBW1	**Mounting bracket** Made of plastic with holding magnet for mounting on the cabinet	1	KBW1	2CPX044058R9999	
ZA6	**Document holder DIN A4** Self-adhesive, with transparent sleeve	1	ZA6	2CPX038227R9999	
		10	ZA6P10	2CPX062380R9999	
	Self-adhesive, with transparent sleeve and reinforced back	10	ZA61P10	2CPX062375R9999	
 ZA5	**Document holder DIN A5** Self-adhesive	1	ZA5	2CPX038228R9999	
		10	ZA5P10	2CPX062382R9999	

Subdistribution boards

ComfortLine A wall-mounting cabinets

Accessories sheet steel doors



CTB27S

Article	GU	PW	BH	To be used with cabinet	Door without closure			Door with closure		
					Type	Order code	Price	Type	Order code	Price
	3	1	00	A13	-	-		CTB13S	2CPX052318R9999	
		2	00	A23	-	-		CTB23S	2CPX052319R9999	
		3*	00	A33	CTB13	2CPX052304R9999		CTB23S	2CPX052319R9999	
		4*	00	A43	CTB23	2CPX052305R9999		CTB23S	2CPX052319R9999	
		5*	00	A53	CTB23	2CPX052305R9999		CTB33S	2CPX052320R9999	
	4	1	0	A14	-	-		CTB14S	2CPX052321R9999	
		2	0	A24	-	-		CTB24S	2CPX052322R9999	
		3*	0	A34	CTB14	2CPX052306R9999		CTB24S	2CPX052322R9999	
		4*	0	A44	CTB24	2CPX052307R9999		CTB24S	2CPX052322R9999	
		5*	0	A54	CTB24	2CPX052307R9999		CTB34S	2CPX052323R9999	
	5	1	1	A15	-	-		CTB15S	2CPX052324R9999	
		2	1	A25	-	-		CTB25S	2CPX052325R9999	
		3*	1	A35	CTB15	2CPX052308R9999		CTB25S	2CPX052325R9999	
		4*	1	A45	CTB25	2CPX052309R9999		CTB25S	2CPX052325R9999	
		5*	1	A55	CTB25	2CPX052309R9999		CTB35S	2CPX052326R9999	
	6	1	2	A16	-	-		CTB16S	2CPX052327R9999	
		2	2	A26	-	-		CTB26S	2CPX052328R9999	
		3*	2	A36	CTB16	2CPX052310R9999		CTB26S	2CPX052328R9999	
		4*	2	A46	CTB26	2CPX052311R9999		CTB26S	2CPX052328R9999	
		5*	2	A56	CTB26	2CPX052311R9999		CTB36S	2CPX052329R9999	
	7	1	3	A17	-	-		CTB17S	2CPX052330R9999	
		2	3	A27	-	-		CTB27S	2CPX052331R9999	
		3*	3	A37	CTB17	2CPX052312R9999		CTB27S	2CPX052331R9999	
		4*	3	A47	CTB27	2CPX052313R9999		CTB27S	2CPX052331R9999	
		5*	3	A57	CTB27	2CPX052313R9999		CTB37S	2CPX052332R9999	
	8	1	4	A18	-	-		CTB18S	2CPX052333R9999	
		2	4	A28	-	-		CTB28S	2CPX052334R9999	
		3*	4	A38	CTB18	2CPX052314R9999		CTB28S	2CPX052334R9999	
		4*	4	A48	CTB28	2CPX052315R9999		CTB28S	2CPX052334R9999	
		5*	4	A58	CTB28	2CPX052315R9999		CTB38S	2CPX052335R9999	
	9	1	5	A19	-	-		CTB19S	2CPX052336R9999	
		2	5	A29	-	-		CTB29S	2CPX052337R9999	
		3*	5	A39	CTB19	2CPX052316R9999		CTB29S	2CPX052337R9999	
		4*	5	A49	CTB29	2CPX052317R9999		CTB29S	2CPX052337R9999	
		5*	5	A59	CTB29	2CPX052317R9999		CTB39S	2CPX052338R9999	

> Double-wing doors on cabinets with three or more panel widths

Subdistribution boards

ComfortLine A wall-mounting cabinets

Accessories transparent doors



CTT27S

Article	GU	PW	BH	To be used with Abinet	Door without closure			Door with closure		
					Type	Order code	Price	Type	Order code	Price
	3	1	00	A13	-	-		CTT13S	2CPX052353R9999	
		2	00	A23	-	-		CTT23S	2CPX052354R9999	
		3*	00	A33	CTT13	2CPX052339R9999		CTT23S	2CPX052354R9999	
		4*	00	A43	CTT23	2CPX052340R9999		CTT23S	2CPX052354R9999	
		5*	00	A53	CTT23	2CPX052340R9999		CTT33S	2CPX052355R9999	
	4	1	0	A14	-	-		CTT14S	2CPX052356R9999	
		2	0	A24	-	-		CTT24S	2CPX052357R9999	
		3*	0	A34	CTT14	2CPX052341R9999		CTT24S	2CPX052357R9999	
		4*	0	A44	CTT24	2CPX052342R9999		CTT24S	2CPX052357R9999	
		5*	0	A54	CTT24	2CPX052342R9999		CTT34S	2CPX052358R9999	
	5	1	1	A15	-	-		CTT15S	2CPX052359R9999	
		2	1	A25	-	-		CTT25S	2CPX052360R9999	
		3*	1	A35	CTT15	2CPX052343R9999		CTT25S	2CPX052360R9999	
		4*	1	A45	CTT25	2CPX052344R9999		CTT25S	2CPX052360R9999	
		5*	1	A55	CTT25	2CPX052344R9999		CTT35S	2CPX052361R9999	
	6	1	2	A16	-	-		CTT16S	2CPX052362R9999	
		2	2	A26	-	-		CTT26S	2CPX052363R9999	
		3*	2	A36	CTT16	2CPX052345R9999		CTT26S	2CPX052363R9999	
		4*	2	A46	CTT26	2CPX052346R9999		CTT26S	2CPX052363R9999	
		5*	2	A56	CTT26	2CPX052346R9999		CTT36S	2CPX052364R9999	
	7	1	3	A17	-	-		CTT17S	2CPX052365R9999	
		2	3	A27	-	-		CTT27S	2CPX052366R9999	
		3*	3	A37	CTT17	2CPX052347R9999		CTT27S	2CPX052366R9999	
		4*	3	A47	CTT27	2CPX052348R9999		CTT27S	2CPX052366R9999	
		5*	3	A57	CTT27	2CPX052348R9999		CTT37S	2CPX052367R9999	
	8	1	4	A18	-	-		CTT18S	2CPX052368R9999	
		2	4	A28	-	-		CTT28S	2CPX052369R9999	
		3*	4	A38	CTT18	2CPX052349R9999		CTT28S	2CPX052369R9999	
		4*	4	A48	CTT28	2CPX052350R9999		CTT28S	2CPX052369R9999	
		5*	4	A58	CTT28	2CPX052350R9999		CTT38S	2CPX052370R9999	
	9	1	5	A19	-	-		CTT19S	2CPX052371R9999	
		2	5	A29	-	-		CTT29S	2CPX052372R9999	
		3*	5	A39	CTT19	2CPX052351R9999		CTT29S	2CPX052372R9999	
		4*	5	A49	CTT29	2CPX052352R9999		CTT29S	2CPX052372R9999	
		5*	5	A59	CTT29	2CPX052352R9999		CTT39S	2CPX052373R9999	

> Double-wing doors on cabinets with three or more panel widths

Subdistribution boards

ComfortLine A wall-mounting cabinets

Accessories sheet steel doors with ventilation holes

Article	GU	PW	BH	To be used with cabinet	Door without closure			Door with closure		
					Type	Order code	Price	Type	Order code	Price
 CTL27S	3	1	00	A13	-	-		CTL13S	2CPX052374R9999	
		2	00	A23	-	-		CTL23S	2CPX052375R9999	
		3*	00	A33	-	-		CTL23S	2CPX052375R9999	
		4*	00	A43	-	-		CTL23S	2CPX052375R9999	
		5*	00	A53	-	-		-	-	
	4	1	0	A14	-	-		CTL14S	2CPX052376R9999	
		2	0	A24	-	-		CTL24S	2CPX052377R9999	
		3*	0	A34	-	-		CTL24S	2CPX052377R9999	
		4*	0	A44	-	-		CTL24S	2CPX052377R9999	
		5*	0	A54	-	-		-	-	
	5	1	1	A15	-	-		CTL15S	2CPX052378R9999	
		2	1	A25	-	-		CTL25S	2CPX052379R9999	
		3*	1	A35	-	-		CTL25S	2CPX052379R9999	
		4*	1	A45	-	-		CTL25S	2CPX052379R9999	
		5*	1	A55	-	-		-	-	
	6	1	2	A16	-	-		CTL16S	2CPX052380R9999	
		2	2	A26	-	-		CTL26S	2CPX052381R9999	
		3*	2	A36	-	-		CTL26S	2CPX052381R9999	
		4*	2	A46	-	-		CTL26S	2CPX052381R9999	
		5*	2	A56	-	-		-	-	
	7	1	3	A17	-	-		CTL17S	2CPX052382R9999	
		2	3	A27	-	-		CTL27S	2CPX052383R9999	
		3*	3	A37	-	-		CTL27S	2CPX052383R9999	
		4*	3	A47	-	-		CTL27S	2CPX052383R9999	
		5*	3	A57	-	-		CTL37S	2CPX052384R9999	
	8	1	4	A18	-	-		CTL18S	2CPX052484R9999	
		2	4	A28	-	-		CTL28S	2CPX052485R9999	
		3*	4	A38	-	-		CTL28S	2CPX052485R9999	
		4*	4	A48	-	-		CTL28S	2CPX052485R9999	
		5*	4	A58	-	-		-	-	
	9	1	5	A19	-	-		CTL19S	2CPX052385R9999	
		2	5	A29	-	-		CTL29S	2CPX052386R9999	
		3*	5	A39	-	-		CTL29S	2CPX052386R9999	
		4*	5	A49	-	-		CTL29S	2CPX052386R9999	
		5*	5	A59	-	-		CTL39S	2CPX052387R9999	

> Double-wing doors on cabinets with three or more panel widths

Subdistribution boards

ComfortLine A wall-mounting cabinets

Accessories sheet steel doors with plastic insert and ventilation holes (WiFi-door)



CTW27S

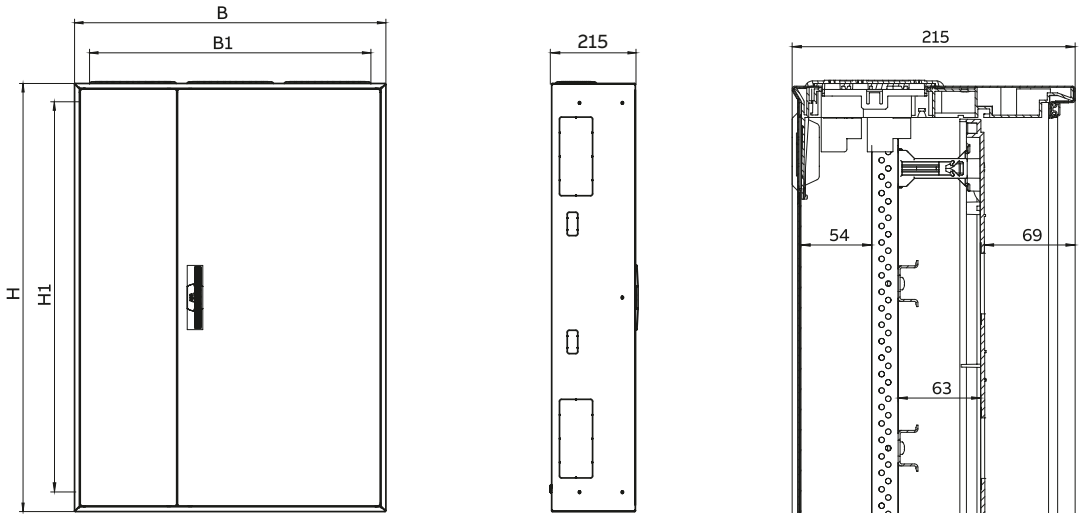
Article	GU	PW	BH	To be used with cabinet	Door without closure			Door with closure		
					Type	Order code	Price	Type	Order code	Price
	3	1	00	A13	-	-		CTW13S	2CPX052388R9999	
		2	00	A23	-	-		CTW23S	2CPX052389R9999	
		3*	00	A33	-	-		CTW23S	2CPX052389R9999	
		4*	00	A43	-	-		CTW23S	2CPX052389R9999	
		5*	00	A53	-	-		-	-	
	4	1	0	A14	-	-		CTW14S	2CPX052390R9999	
		2	0	A24	-	-		CTW24S	2CPX052391R9999	
		3*	0	A34	-	-		CTW24S	2CPX052391R9999	
		4*	0	A44	-	-		CTW24S	2CPX052391R9999	
		5*	0	A54	-	-		-	-	
	5	1	1	A15	-	-		CTW15S	2CPX052392R9999	
		2	1	A25	-	-		CTW25S	2CPX052393R9999	
		3*	1	A35	-	-		CTW25S	2CPX052393R9999	
		4*	1	A45	-	-		CTW25S	2CPX052393R9999	
		5*	1	A55	-	-		-	-	
	6	1	2	A16	-	-		CTW16S	2CPX052394R9999	
		2	2	A26	-	-		CTW26S	2CPX052395R9999	
		3*	2	A36	-	-		CTW26S	2CPX052395R9999	
		4*	2	A46	-	-		CTW26S	2CPX052395R9999	
		5*	2	A56	-	-		-	-	
	7	1	3	A17	-	-		CTW17S	2CPX052396R9999	
		2	3	A27	-	-		CTW27S	2CPX052397R9999	
		3*	3	A37	-	-		CTW27S	2CPX052397R9999	
		4*	3	A47	-	-		CTW27S	2CPX052397R9999	
		5*	3	A57	-	-		CTW37S	2CPX052398R9999	
	8	1	4	A18	-	-		CTW18S	2CPX052486R9999	
		2	4	A28	-	-		CTW28S	2CPX052487R9999	
		3*	4	A38	-	-		CTW28S	2CPX052487R9999	
		4*	4	A48	-	-		CTW28S	2CPX052487R9999	
		5*	4	A58	-	-		-	-	
	9	1	5	A19	-	-		CTW19S	2CPX052399R9999	
		2	5	A29	-	-		CTW29S	2CPX052400R9999	
		3*	5	A39	-	-		CTW29S	2CPX052400R9999	
		4*	5	A49	-	-		CTW29S	2CPX052400R9999	
		5*	5	A59	-	-		CTW39S	2CPX052401R9999	

> Double-wing doors on cabinets with three or more panel widths

Subdistribution boards

ComfortLine A wall-mounting cabinets IP44

Dimensions



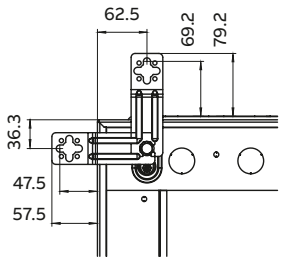
Type	GU	PW	SU	OH	External dimensions H	B	Internal fastening H1	B1	Door without closure	Door with closure
A13		1	36		500	300	452	252	-	471 x 271
A23		2	72		500	550	452	502	-	471 x 521
A33	3	3	108	00	500	800	452	752	471 x 248	471 x 521
A14		1	48		650	300	602	252	-	621 x 271
A24		2	96		650	550	602	502	-	621 x 521
A34		3	144		650	800	602	752	621 x 248	621 x 521
A44		4	192		650	1050	602	1002	621 x 498	621 x 521
A54	4	5	240	0	650	1300	602	1252	621 x 498	621 x 771
A15		1	60		800	300	752	252	-	771 x 271
A25		2	120		800	550	752	502	-	771 x 521
A35		3	180		800	800	752	752	771 x 248	771 x 521
A45		4	240		800	1050	752	1002	771 x 498	771 x 521
A55	5	5	300	1	800	1300	752	1252	771 x 498	771 x 771
A16		1	72		950	300	902	252	-	921 x 271
A26		2	144		950	550	902	502	-	921 x 521
A36		3	216		950	800	902	752	921 x 248	921 x 521
A46		4	288		950	1050	902	1002	921 x 498	921 x 521
A56	6	5	360	2	950	1300	902	1252	921 x 498	921 x 771
A17		1	84		1100	300	1052	252	-	1071 x 271
A27		2	168		1100	550	1052	502	-	1071 x 521
A37		3	252		1100	800	1052	752	1071 x 248	1071 x 521
A47		4	336		1100	1050	1052	1002	1071 x 498	1071 x 521
A57	7	5	420	3	1100	1300	1052	1252	1071 x 498	1071 x 771
A18		1	96		1250	300	1202	252	-	1221 x 271
A28		2	192		1250	550	1202	502	-	1221 x 521
A38		3	288		1250	800	1202	752	1221 x 248	1221 x 521
A48		4	384		1250	1050	1202	1002	1221 x 498	1221 x 521
A58	8	5	480	4	1250	1300	1202	1252	1221 x 498	1221 x 771
A19		1	108		1400	300	1352	252	-	1371 x 271
A29		2	216		1400	550	1352	502	-	1371 x 521
A39		3	324		1400	800	1352	752	1371 x 248	1371 x 521
A49		4	432		1400	1050	1352	1002	1371 x 498	1371 x 521
A59	9	5	540	5	1400	1300	1352	1252	1371 x 498	1371 x 771

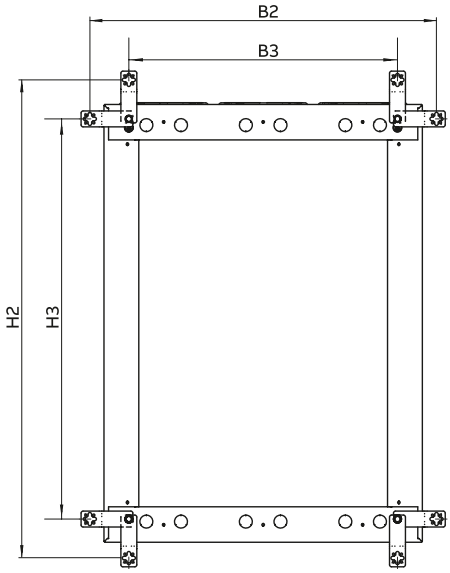
> Dimensions in mm | Double-wing doors on cabinets with three or more panel widths

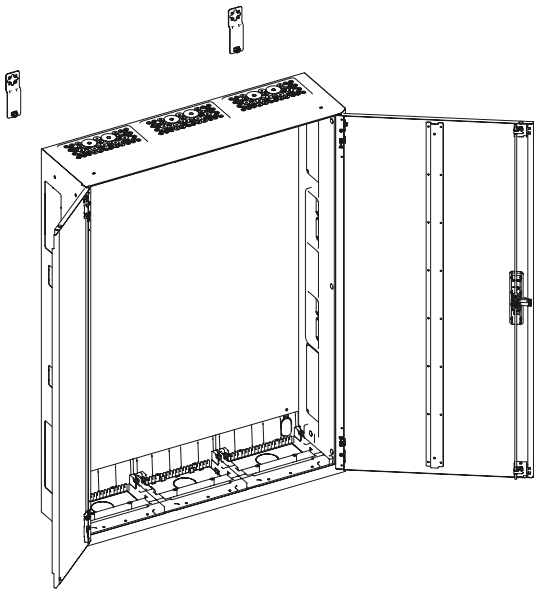
Subdistribution boards

ComfortLine A wall-mounting cabinets IP44

Dimensions and power loss







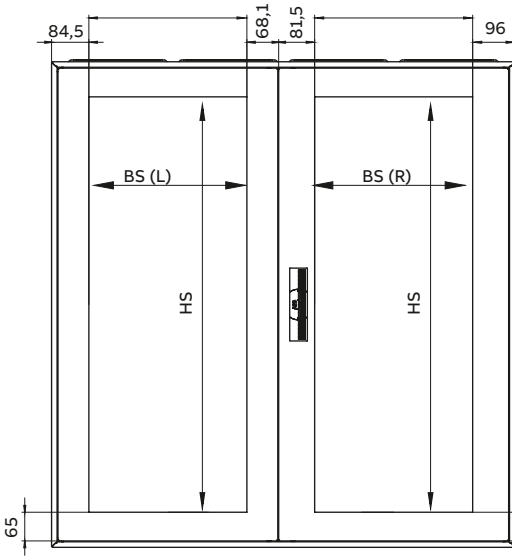
					External dimensions		Internal fastening		Power loss*
Type	**GU**	**PW**	**SU**	**OH**	**H2**	**B2**	**H3**	**B3**	**PV (W)**
A13		1	36		624 ± 12	371 ± 12	428	175	28.7
A23		2	72		624 ± 12	621 ± 12	428	425	47.2
A33		3	108		624 ± 12	871 ± 12	428	675	66.8
A43		4	144		624 ± 12	1121 ± 12	428	925	65.8
A53	3	5	180	00	624 ± 12	1371 ± 12	428	1175	83.2
A14		1	48		774 ± 12	371 ± 12	578	175	35
A24		2	96		774 ± 12	621 ± 12	578	425	56
A34		3	144		774 ± 12	871 ± 12	578	675	59.5
A44		4	192		774 ± 12	1121 ± 12	578	925	80.4
A54	4	5	240	0	774 ± 12	1371 ± 12	578	1175	104.9
A15		1	60		924 ± 12	371 ± 12	728	175	41.4
A25		2	120		924 ± 12	621 ± 12	728	425	65
A35		3	180		924 ± 12	871 ± 12	728	675	69.4
A45		4	240		924 ± 12	1121 ± 12	728	925	96.1
A55	5	5	300	1	924 ± 12	1371 ± 12	728	1175	127.6
A16		1	72		1074 ± 12	371 ± 12	878	175	47.8
A26		2	144		1074 ± 12	621 ± 12	878	425	51.6
A36		3	216		1074 ± 12	871 ± 12	878	675	78.7
A46		4	288		1074 ± 12	1121 ± 12	878	925	111.9
A56	6	5	360	2	1074 ± 12	1371 ± 12	878	1175	150.1
A17		1	84		1224 ± 12	371 ± 12	1028	175	54.2
A27		2	168		1224 ± 12	621 ± 12	1028	425	60.4
A37		3	252		1224 ± 12	871 ± 12	1028	675	87.2
A47		4	336		1224 ± 12	1121 ± 12	1028	925	130.6
A57	7	5	420	3	1224 ± 12	1371 ± 12	1028	1175	170.3
A18		1	96		1374 ± 12	371 ± 12	1178	175	60.6
A28		2	192		1374 ± 12	621 ± 12	1178	425	68
A38		3	288		1374 ± 12	871 ± 12	1178	675	101
A48		4	384		1374 ± 12	1121 ± 12	1178	925	146.6
A58	8	5	480	4	1374 ± 12	1371 ± 12	1178	1175	189.7
A19		1	108		1524 ± 12	371 ± 12	1328	175	66.9
A29		2	216		1524 ± 12	621 ± 12	1328	425	77.4
A39		3	324		1524 ± 12	871 ± 12	1328	675	117.7
A49		4	432		1524 ± 12	1121 ± 12	1328	925	155.6
A59	9	5	540	5	1524 ± 12	1371 ± 12	1328	1175	189.7

> Dimensions in mm | * Power loss PV in Watt at overtemperature ΔT 20K

Subdistribution boards

ComfortLine A wall-mounting cabinets IP44

Dimensions transparent doors



Cabinet				Door without closure			Door with closure		
Type	GU	PW	OH	Type	H x W	Window BS(L) HS x BS	Type	H x W	Window BS(R) HS x BS
A13		1	00	-	-	-	CTT13S	471 x 271	341 x 108
A23		2	00	-	-	-	CTT23S	471 x 521	341 x 358
A33		3	00	CTT13	471 x 248	341 x 108	CTT23S	471 x 521	341 x 358
A43		4	00	CTT23	471 x 498	341 x 358	CTT23S	471 x 521	341 x 358
A53	3	5	00	CTT23	471 x 498	341 x 358	CTT33S	471 x 771	341 x 608
A14		1	0	-	-	-	CTT14S	621 x 271	491 x 108
A24		2	0	-	-	-	CTT24S	621 x 521	491 x 358
A34		3	0	CTT14	621 x 248	491 x 108	CTT24S	621 x 521	491 x 358
A44		4	0	CTT24	621 x 498	491 x 358	CTT24S	621 x 521	491 x 358
A54	4	5	0	CTT24	621 x 498	491 x 358	CTT34S	621 x 771	491 x 608
A15		1	1	-	-	-	CTT15S	771 x 271	641 x 108
A25		2	1	-	-	-	CTT25S	771 x 521	641 x 358
A35		3	1	CTT15	771 x 248	641 x 108	CTT25S	771 x 521	641 x 358
A45		4	1	CTT25	771 x 498	641 x 358	CTT25S	771 x 521	641 x 358
A55	5	5	1	CTT25	771 x 498	641 x 358	CTT35S	771 x 771	641 x 608
A16		1	2	-	-	-	CTT16S	921 x 271	791 x 108
A26		2	2	-	-	-	CTT26S	921 x 521	791 x 358
A36		3	2	CTT16	921 x 248	791 x 108	CTT26S	921 x 521	791 x 358
A46		4	2	CTT26	921 x 498	791 x 358	CTT26S	921 x 521	791 x 358
A56	6	5	2	CTT26	921 x 498	791 x 358	CTT36S	921 x 771	791 x 608
A17		1	3	-	-	-	CTT17S	1071 x 271	941 x 108
A27		2	3	-	-	-	CTT27S	1071 x 521	941 x 358
A37		3	3	CTT17	1071 x 248	941 x 108	CTT27S	1071 x 521	941 x 358
A47		4	3	CTT27	1071 x 498	941 x 358	CTT27S	1071 x 521	941 x 358
A57	7	5	3	CTT27	1071 x 498	941 x 358	CTT37S	1071 x 771	941 x 608
A18		1	4	-	-	-	CTT18S	1221 x 271	1091 x 108
A28		2	4	-	-	-	CTT28S	1221 x 521	1091 x 358
A38		3	4	CTT18	1221 x 248	1091 x 108	CTT28S	1221 x 521	1091 x 358
A48		4	4	CTT28	1221 x 498	1091 x 358	CTT28S	1221 x 521	1091 x 358
A58	8	5	4	CTT28	1221 x 498	1091 x 358	CTT38S	1221 x 771	1091 x 608
A19		1	5	-	-	-	CTT19S	1371 x 271	1241 x 108
A29		2	5	-	-	-	CTT29S	1371 x 521	1241 x 358
A39		3	5	CTT19	1371 x 248	1241 x 108	CTT29S	1371 x 521	1241 x 358
A49		4	5	CTT29	1371 x 498	1241 x 358	CTT29S	1371 x 521	1241 x 358
A59	9	5	5	CTT29	1371 x 498	1241 x 358	CTT39S	1371 x 771	1241 x 608

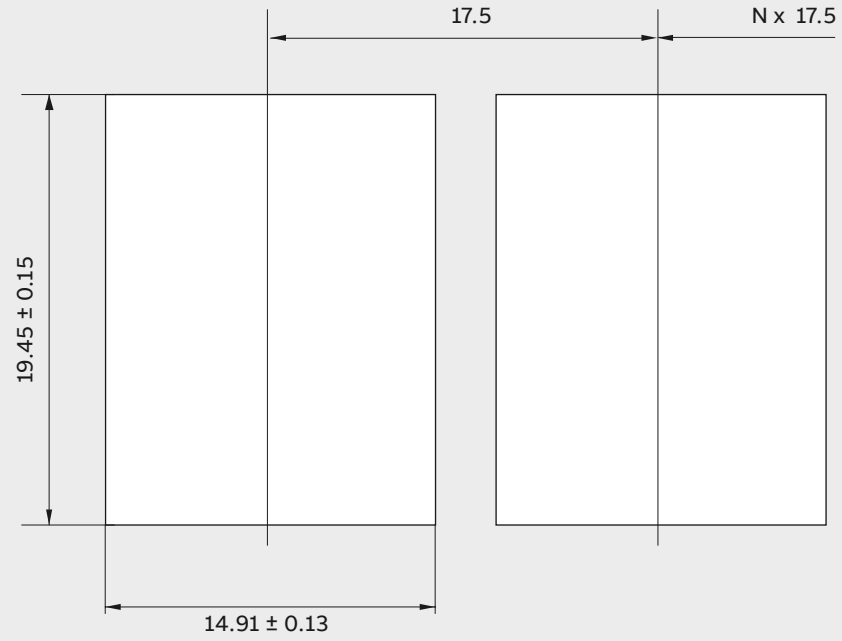
> Dimensions in mm | Double-wing doors on cabinets with three or more panel widths

Subdistribution boards

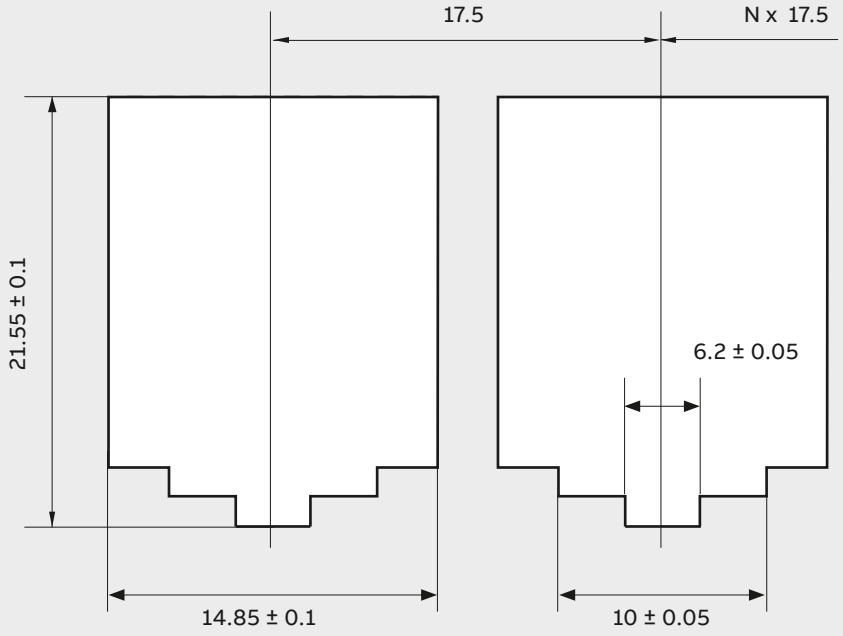
ComfortLine A/B wall-mounting cabinets IP44

Dimensions of the knockouts for the Keystone- and E-Dat-modules

Knockouts Keystone-modules



Knockouts E-Dat-modules



> Dimensions in mm

Subdistribution boards

ComfortLine B wall-mounting cabinets IP44

For wall-mounting ⏚



B-wall-mounting cabinets
IP44 ⏚, cabinet depth 215 mm



For an internal configuration with distribution panels/combination sets CombiLine N modules to EDF mounting frame, see main catalogue Internal Configuration Systems

Technical specifications	
Standards/regulations	DIN EN 61439-1/-2/-3
Protection class	I, earthed
Protection class	IP44
Mechanical impact strength	IK07
Rated current	$I_{(nA)}$ up to 250 A
Product features	
Enclosures and doors	Made of sheet steel, colour white RAL 9016, powder-coated
	With depth level compensation
	One top mounted membrane flange per panel width
	Door opening angle 120°
	Double-wing doors on cabinets with three or more panel widths
	Doors with espagnolette closure
	Flange openings pre-embossed at the bottom and sides
	Fastening elements CZ11 for the front fastening level are assembled
Internal configuration options	Prepared to be fitted with distribution panels/combination sets
	Prepared to be fitted with CombiLine-M modules on the EDF mounting frame
Delivery forms	Empty cabinets with door
	Also delivered is a flange for cable entry CZF1 for the lower connection area
Accessories	Cable entry covers
	Closures
	Transparent doors

> Distribution panels/combination sets CombiLine, see main catalogue

Subdistribution boards

ComfortLine B wall-mounting cabinets IP44

For wall-mounting ⏚

GU	BH	Height in mm	PW	SU	External dimensions H x B x T mm	Type	Order code	Price
3	00	500	1	36	500 x 300 x 215	B13	2CPX052050R9999	
			2	72	500 x 550 x 215	B23	2CPX052051R9999	
			3	108	500 x 800 x 215	B33	2CPX052052R9999	
4	0	650	1	48	650 x 300 x 215	B14	2CPX052053R9999	
			2	96	650 x 550 x 215	B24	2CPX052054R9999	
			3	144	650 x 800 x 215	B34	2CPX052055R9999	
			4	192	650 x 1050 x 215	B44	2CPX052056R9999	
			5	240	650 x 1300 x 215	B54	2CPX052057R9999	
5	1	800	1	60	800 x 300 x 215	B15	2CPX052058R9999	
			2	120	800 x 550 x 215	B25	2CPX052059R9999	
			3	180	800 x 800 x 215	B35	2CPX052060R9999	
			4	240	800 x 1050 x 215	B45	2CPX052061R9999	
			5	300	800 x 1300 x 215	B55	2CPX052062R9999	
6	2	950	1	72	950 x 300 x 215	B16	2CPX052063R9999	
			2	144	950 x 550 x 215	B26	2CPX052064R9999	
			3	216	950 x 800 x 215	B36	2CPX052065R9999	
			4	288	950 x 1050 x 215	B46	2CPX052066R9999	
			5	360	950 x 1300 x 215	B56	2CPX052067R9999	
7	3	1100	1	84	1100 x 300 x 215	B17	2CPX052068R9999	
			2	168	1100 x 550 x 215	B27	2CPX052069R9999	
			3	252	1100 x 800 x 215	B37	2CPX052070R9999	
			4	336	1100 x 1050 x 215	B47	2CPX052071R9999	
			5	420	1100 x 1300 x 215	B57	2CPX052072R9999	
8	4	1250	1	96	1250 x 300 x 215	B18	2CPX052073R9999	
			2	192	1250 x 550 x 215	B28	2CPX052074R9999	
			3	288	1250 x 800 x 215	B38	2CPX052075R9999	
			4	384	1250 x 1050 x 215	B48	2CPX052076R9999	
			5	480	1250 x 1300 x 215	B58	2CPX052077R9999	
9	5	1400	1	108	1400 x 300 x 215	B19	2CPX052078R9999	
			2	216	1400 x 550 x 215	B29	2CPX052079R9999	
			3	324	1400 x 800 x 215	B39	2CPX052080R9999	
			4	432	1400 x 1050 x 215	B49	2CPX052081R9999	
			5	540	1400 x 1300 x 215	B59	2CPX052082R9999	

Subdistribution boards

ComfortLine B wall-mounting cabinets

Accessories

Article		Pcs.	Type	Order code	Price
 CZ1P4	**External mounting brackets**	4	CZ1P4	2CPX052459R9999	
 CZ2	**Cabinet connection** For cabinet to cabinet connections, 1 set	1	CZ2	2CPX052460R9999	
 CZ3	**Insulating frame for cabinet to cabinet connections** For the side flange cut-outs	1	CZ3	2CPX052461R9999	
 CZ6	**Mounting frame** For lateral flange mounting	1	CZ6	2CPX052464R9999	
 CZ4	**Insulating frame for cabinet to cabinet connections** For the upper/lower flange cut-outs	1	CZ4	2CPX052462R9999	
 CZF1	**Flange for cable entry** 2 x 25.5 mm, 2 x 47.5 mm, 1 x 62 mm	1	CZF1	2CPX052435R9999	
 CZF2	**Membrane flange*** 34 x 12 mm, 9 x 15.5 mm, 6 x 19 mm, 2 x 40.5 mm, 2 x data line	1	CZF2	2CPX052436R9999	
 CZF3	**Closing flange**	1	CZF3	2CPX052437R9999	
 CZF4	**Flange for M screw fittings** 10 x M16, 3 x M16/M20, 1 x M16/M20/M25, 1 x M16/M25/M32/M40/M50	1	CZF4	2CPX052438R9999	
 CZF10	**Metal flange** closed	1	CZF10	2CPX052440R9999	
CZF11	**Metal flanges for M screw fittings** 4 × M16, 4 × M20, 3 × M32, 1 × M40	1	CZF11	2CPX052441R9999	
	21 × M20		CZF12	2CPX052442R9999	
	16 × M16, 12 × M20		CZF13	2CPX052443R9999	
	24 × M16		CZF14	2CPX052444R9999	

*Included in scope of delivery

Subdistribution boards

ComfortLine B wall-mounting cabinets

Accessories

Article		Pcs.	Type	Order code	Price
  CZT1 CZT2	**Standard closure***	1	CZT1	2CPX052413R9999	
	Closure with lock With 2 keys	1	CZT2	2CPX052412R9999	
 CZT23	**Espagnolette closure*** In connection with standard closure CZT1 or closure with lock CZT2				
	Overall height 3 GU	1	CZT23	2CPX052423R9999	
	Overall height 4 GU	1	CZT24	2CPX052424R9999	
	Overall height 5 GU	1	CZT25	2CPX052425R9999	
	Overall height 6 GU	1	CZT26	2CPX052426R9999	
	Overall height 7 GU	1	CZT27	2CPX052427R9999	
	Overall height 8 GU	1	CZT28	2CPX052428R9999	
	Overall height 9 GU	1	CZT29	2CPX052429R9999	
 CZT60	**Installation set** *2 Of operating options in connection with TZ503, TZ504, TZ505, TZ506, TZ507 and TZ508	1	CZT60	2CPX052414R9999	
 TZ507	**Latch plate***1 *2				
	Double bit operating pin, 3 mm standard and 5 mm	1	TZ507	2CPX010491R9999	
	For triangular and square operating pin and for Daimler-Benz insert	1	TZ508	2CPX010492R9999	
  ZH130 ZH132   ZH134 ZH137	**Operating Pin**				
	Double bit 3 mm	1	ZH130	2CPX060490R9999	
	Double bit 5 mm	1	ZH131	2CPX060491R9999	
	Triangular 7 mm	1	ZH132	2CPX060492R9999	
	Triangular 8 mm	1	ZH133	2CPX060493R9999	
	Square 6 mm	1	ZH134	2CPX060494R9999	
	Square 7 mm	1	ZH135	2CPX060495R9999	
	Square 8 mm	1	ZH136	2CPX060496R9999	
	Daimler-Benz insert	1	ZH137	2CPX060497R9999	
 CZ12	**Depth Level Compensation**	2	CZ12	2CPX052553R9999	

*Included in scope of delivery

*1 Order installation set CZT60 separetely

*2 Order espagnolette closure CZT...H separetely

Subdistribution boards

ComfortLine B wall-mounting cabinets

Accessories

Article		Pcs.	Type	Order code	Price
  TZ505 TZ506	**T-handle**[*1] [*2]				
	With latch plate, without lock	1	TZ506	2CPX010490R9999	
	With latch plate, with lock	1	TZ505	2CPX010489R9999	
  TZ503 TZ504	**Latch handle**[*1] [*2]				
	With latch plate, without lock	1	TZ504	2CPX010488R9999	
	With latch plate, with lock	1	TZ503	2CPX010487R9999	
 CZT7	**Swivel handle with lead sealable cap**[*2] For semi-cylinder, 40 mm (30/10)	1	CZT5	2CPX052488R9999	
	Swivel handle with lead sealable cap[*2] With closure EO 12	1	CZT6	2CPX052430R9999	
	Swivel handle with lead sealable cap[*2] With cabinet handle Berlin, simultaneous locking	1	CZT7	2CPX052431R9999	
 ZH142	**Dummy insert** Instead of a semi-cylinder	1	ZH142	2CPX060502R9999	
 CZT23H	**Espagnolette closure** In connection with swivel handle CZT5, CZT6, CZT7 and TZ503, TZ504, TZ505, TZ506, TZ507 and TZ508				
	Overall height 3 GU	1	CZT23H	2CPX052416R9999	
	Overall height 4 GU	1	CZT24H	2CPX052417R9999	
	Overall height 5 GU	1	CZT25H	2CPX052418R9999	
	Overall height 6 GU	1	CZT26H	2CPX052419R9999	
	Overall height 7 GU	1	CZT27H	2CPX052420R9999	
	Overall height 8 GU	1	CZT28H	2CPX052421R9999	
	Overall height 9 GU	1	CZT29H	2CPX052422R9999	
 CZT10	**Door hinge*** 1 set comprised of 1x hinge top-left/top-right/ bottom-left/bottom-right	1	CZT10	2CPX052415R9999	

*Included in scope of delivery

*[1] Order installation set CZT60 separetely

*[2] Order espagnolette closure CZT...H separetely

Subdistribution boards

ComfortLine B wall-mounting cabinets

Accessories

Article		Pcs.	Type	Order code	Price
CZB213	**Vertical partitions** Made of plastic, not arc-resistant				
	3 GU	1	CZB213	2CPX052498R9999	
	4 GU	1	CZB214	2CPX052499R9999	
	5 GU	1	CZB215	2CPX052500R9999	
	6 GU	1	CZB216	2CPX052501R9999	
	7 GU	1	CZB217	2CPX052502R9999	
	8 GU	1	CZB218	2CPX052503R9999	
	9 GU	1	CZB219	2CPX052504R9999	
 KB19	**Cable entry covers** With end plates and fixing brackets made of plastic, colour RAL9016 matching the colour of the cabinets				
	1 panel wide, Height 300 mm	1	KB19	2CPX044049R9999	
	2 panel wide, Height 550 mm	1	KB29	2CPX044050R9999	
	3 panel wide, Height 800 mm	1	KB39	2CPX044051R9999	
	4 panel wide, Height 1050 mm	1	KB49	2CPX044052R9999	
	5 panel wide, Height 1300 mm	1	KB59	2CPX044053R9999	
 KB219	**Profile** Plastic, colour RAL9016, width 2000 mm	1	KB219	2CPX044055R9999	
 KBS9	**End plate left/right** Plastic, colour RAL9016 1 set, 2 pcs.	1	KBS9	2CPX044057R9999	
 KBW1	**Mounting bracket** Made of plastic with holding magnet for mounting on the cabinet	1	KBW1	2CPX044058R9999	
ZA6	**Document holder DIN A4** Self-adhesive, with transparent sleeve	1	ZA6	2CPX038227R9999	
		10	ZA6P10	2CPX062380R9999	
	Self-adhesive, with transparent sleeve and reinforced back	10	ZA61P10	2CPX062375R9999	
 ZA5	**Document holder DIN A5** Self-adhesive	1	ZA5	2CPX038228R9999	
		10	ZA5P10	2CPX062382R9999	

Subdistribution boards

ComfortLine B wall-mounting cabinets

Accessories sheet steel doors



CTB27S

Article	GU	PW	BH	To be used with cabinet	Door without closure			Door with closure		
					Type	Order code	Price	Type	Order code	Price
	3	1	00	B13	-	-		CTB13S	2CPX052318R9999	
		2	00	B23	-	-		CTB23S	2CPX052319R9999	
		3	00	B33	CTB13	2CPX052304R9999		CTB23S	2CPX052319R9999	
	4	1	0	B14	-	-		CTB14S	2CPX052321R9999	
		2	0	B24	-	-		CTB24S	2CPX052322R9999	
		3	0	B34	CTB14	2CPX052306R9999		CTB24S	2CPX052322R9999	
		4	0	B44	CTB24	2CPX052307R9999		CTB24S	2CPX052322R9999	
		5	0	B54	CTB24	2CPX052307R9999		CTB34S	2CPX052323R9999	
	5	1	1	B15	-	-		CTB15S	2CPX052324R9999	
		2	1	B25	-	-		CTB25S	2CPX052325R9999	
		3	1	B35	CTB15	2CPX052308R9999		CTB25S	2CPX052325R9999	
		4	1	B45	CTB25	2CPX052309R9999		CTB25S	2CPX052325R9999	
		5	1	B55	CTB25	2CPX052309R9999		CTB35S	2CPX052326R9999	
	6	1	2	B16	-	-		CTB16S	2CPX052327R9999	
		2	2	B26	-	-		CTB26S	2CPX052328R9999	
		3	2	B36	CTB16	2CPX052310R9999		CTB26S	2CPX052328R9999	
		4	2	B46	CTB26	2CPX052311R9999		CTB26S	2CPX052328R9999	
		5	2	B56	CTB26	2CPX052311R9999		CTB36S	2CPX052329R9999	
	7	1	3	B17	-	-		CTB17S	2CPX052330R9999	
		2	3	B27	-	-		CTB27S	2CPX052331R9999	
		3	3	B37	CTB17	2CPX052312R9999		CTB27S	2CPX052331R9999	
		4	3	B47	CTB27	2CPX052313R9999		CTB27S	2CPX052331R9999	
		5	3	B57	CTB27	2CPX052313R9999		CTB37S	2CPX052332R9999	
	8	1	4	B18	-	-		CTB18S	2CPX052333R9999	
		2	4	B28	-	-		CTB28S	2CPX052334R9999	
		3	4	B38	CTB18	2CPX052314R9999		CTB28S	2CPX052334R9999	
		4	4	B48	CTB28	2CPX052315R9999		CTB28S	2CPX052334R9999	
		5	4	B58	CTB28	2CPX052315R9999		CTB38S	2CPX052335R9999	
	9	1	5	B19	-	-		CTB19S	2CPX052336R9999	
		2	5	B29	-	-		CTB29S	2CPX052337R9999	
		3	5	B39	CTB19	2CPX052316R9999		CTB29S	2CPX052337R9999	
		4	5	B49	CTB29	2CPX052317R9999		CTB29S	2CPX052337R9999	
		5	5	B59	CTB29	2CPX052317R9999		CTB39S	2CPX052338R9999	

> Double-wing doors on cabinets with three or more panel widths

Subdistribution boards

ComfortLine B wall-mounting cabinets

Accessories transparent doors



CTT27S

Article	GU	PW	BH	To be used with cabinet	Door without closure*			Door with closure*		
					Type	Order code	Price	Type	Order code	Price
	3	1	00	B13	-	-		CTT13S	2CPX052353R9999	
		2	00	B23	-	-		CTT23S	2CPX052354R9999	
		3	00	B33	CTT13	2CPX052339R9999		CTT23S	2CPX052354R9999	
	4	1	0	B14	-	-		CTT14S	2CPX052356R9999	
		2	0	B24	-	-		CTT24S	2CPX052357R9999	
		3	0	B34	CTT14	2CPX052341R9999		CTT24S	2CPX052357R9999	
		4	0	B44	CTT24	2CPX052342R9999		CTT24S	2CPX052357R9999	
		5	0	B54	CTT24	2CPX052342R9999		CTT34S	2CPX052358R9999	
	5	1	1	B15	-	-		CTT15S	2CPX052359R9999	
		2	1	B25	-	-		CTT25S	2CPX052360R9999	
		3	1	B35	CTT15	2CPX052343R9999		CTT25S	2CPX052360R9999	
		4	1	B45	CTT25	2CPX052344R9999		CTT25S	2CPX052360R9999	
		5	1	B55	CTT25	2CPX052344R9999		CTT35S	2CPX052361R9999	
	6	1	2	B16	-	-		CTT16S	2CPX052362R9999	
		2	2	B26	-	-		CTT26S	2CPX052363R9999	
		3	2	B36	CTT16	2CPX052345R9999		CTT26S	2CPX052363R9999	
		4	2	B46	CTT26	2CPX052346R9999		CTT26S	2CPX052363R9999	
		5	2	B56	CTT26	2CPX052346R9999		CTT36S	2CPX052364R9999	
	7	1	3	B17	-	-		CTT17S	2CPX052365R9999	
		2	3	B27	-	-		CTT27S	2CPX052366R9999	
		3	3	B37	CTT17	2CPX052347R9999		CTT27S	2CPX052366R9999	
		4	3	B47	CTT27	2CPX052348R9999		CTT27S	2CPX052366R9999	
		5	3	B57	CTT27	2CPX052348R9999		CTT37S	2CPX052367R9999	
	8	1	4	B18	-	-		CTT18S	2CPX052368R9999	
		2	4	B28	-	-		CTT28S	2CPX052369R9999	
		3	4	B38	CTT18	2CPX052349R9999		CTT28S	2CPX052369R9999	
		4	4	B48	CTT28	2CPX052350R9999		CTT28S	2CPX052369R9999	
		5	4	B58	CTT28	2CPX052350R9999		CTT38S	2CPX052370R9999	
	9	1	5	B19	-	-		CTT19S	2CPX052371R9999	
		2	5	B29	-	-		CTT29S	2CPX052372R9999	
		3	5	B39	CTT19	2CPX052351R9999		CTT29S	2CPX052372R9999	
		4	5	B49	CTT29	2CPX052352R9999		CTT29S	2CPX052372R9999	
		5	5	B59	CTT29	2CPX052352R9999		CTT39S	2CPX052373R9999	

> Double-wing doors on cabinets with three or more panel widths

Subdistribution boards

ComfortLine B wall-mounting cabinets

Accessories sheet steel doors with ventilation holes



CTL27S

Article	GU	PW	BH	To be used with cabinet*	Door without closure			Door with closure		
					Type	Order code	Price	Type	Order code	Price
	3	1	00	B13	-	-	-	CTL13S	2CPX052374R9999	
		2	00	B23	-	-	-	CTL23S	2CPX052375R9999	
		3	00	B33	-	-	-	CTL23S	2CPX052375R9999	
	4	1	0	B14	-	-	-	CTL14S	2CPX052376R9999	
		2	0	B24	-	-	-	CTL24S	2CPX052377R9999	
		3	0	B34	-	-	-	CTL24S	2CPX052377R9999	
		4	0	B44	-	-	-	CTL24S	2CPX052377R9999	
		5	0	B54	-	-	-	-	-	
	5	1	1	B15	-	-	-	CTL15S	2CPX052378R9999	
		2	1	B25	-	-	-	CTL25S	2CPX052379R9999	
		3	1	B35	-	-	-	CTL25S	2CPX052379R9999	
		4	1	B45	-	-	-	CTL25S	2CPX052379R9999	
		5	1	B55	-	-	-	-	-	
	6	1	2	B16	-	-	-	CTL16S	2CPX052380R9999	
		2	2	B26	-	-	-	CTL26S	2CPX052381R9999	
		3	2	B36	-	-	-	CTL26S	2CPX052381R9999	
		4	2	B46	-	-	-	CTL26S	2CPX052381R9999	
		5	2	B56	-	-	-	-	-	
	7	1	3	B17	-	-	-	CTL17S	2CPX052382R9999	
		2	3	B27	-	-	-	CTL27S	2CPX052383R9999	
		3	3	B37	-	-	-	CTL27S	2CPX052383R9999	
		4	3	B47	-	-	-	CTL27S	2CPX052383R9999	
		5	3	B57	-	-	-	CTL37S	2CPX052384R9999	
	8	1	4	B18	-	-	-	CTL18S	2CPX052484R9999	
		2	4	B28	-	-	-	CTL28S	2CPX052485R9999	
		3	4	B38	-	-	-	CTL28S	2CPX052485R9999	
		4	4	B48	-	-	-	CTL28S	2CPX052485R9999	
		5	4	B58	-	-	-	-	-	
	9	1	5	B19	-	-	-	CTL19S	2CPX052385R9999	
		2	5	B29	-	-	-	CTL29S	2CPX052386R9999	
		3	5	B39	-	-	-	CTL29S	2CPX052386R9999	
		4	5	B49	-	-	-	CTL29S	2CPX052386R9999	
		5	5	B59	-	-	-	CTL39S	2CPX052387R9999	

> Double-wing doors on cabinets with three or more panel widths

* In conjunction with ComfortLine B Protection class IP30

Subdistribution boards

ComfortLine B wall-mounting cabinets

Accessories sheet steel doors with plastic insert and ventilation holes (WiFi-door)



CTW27S

Article	GU	PW	BH	To be used with cabinet*	Door without closure			Door with closure		
					Type	Order code	Price	Type	Order code	Price
	3	1	00	B13	-	-		CTW13S	2CPX052388R9999	
		2	00	B23	-	-		CTW23S	2CPX052389R9999	
		3	00	B33	-	-		CTW23S	2CPX052389R9999	
	4	1	0	B14	-	-		CTW14S	2CPX052390R9999	
		2	0	B24	-	-		CTW24S	2CPX052391R9999	
		3	0	B34	-	-		CTW24S	2CPX052391R9999	
		4	0	B44	-	-		CTW24S	2CPX052391R9999	
		5	0	B54	-	-		-	-	
	5	1	1	B15	-	-		CTW15S	2CPX052392R9999	
		2	1	B25	-	-		CTW25S	2CPX052393R9999	
		3	1	B35	-	-		CTW25S	2CPX052393R9999	
		4	1	B45	-	-		CTW25S	2CPX052393R9999	
		5	1	B55	-	-		-	-	
	6	1	2	B16	-	-		CTW16S	2CPX052394R9999	
		2	2	B26	-	-		CTW26S	2CPX052395R9999	
		3	2	B36	-	-		CTW26S	2CPX052395R9999	
		4	2	B46	-	-		CTW26S	2CPX052395R9999	
		5	2	B56	-	-		-	-	
	7	1	3	B17	-	-		CTW17S	2CPX052396R9999	
		2	3	B27	-	-		CTW27S	2CPX052397R9999	
		3	3	B37	-	-		CTW27S	2CPX052397R9999	
		4	3	B47	-	-		CTW27S	2CPX052397R9999	
		5	3	B57	-	-		CTW37S	2CPX052398R9999	
	8	1	4	B18	-	-		CTW18S	2CPX052486R9999	
		2	4	B28	-	-		CTW28S	2CPX052487R9999	
		3	4	B38	-	-		CTW28S	2CPX052487R9999	
		4	4	B48	-	-		CTW28S	2CPX052487R9999	
		5	4	B58	-	-		-	-	
	9	1	5	B19	-	-		CTW19S	2CPX052399R9999	
		2	5	B29	-	-		CTW29S	2CPX052400R9999	
		3	5	B39	-	-		CTW29S	2CPX052400R9999	
		4	5	B49	-	-		CTW29S	2CPX052400R9999	
		5	5	B59	-	-		CTW39S	2CPX052401R9999	

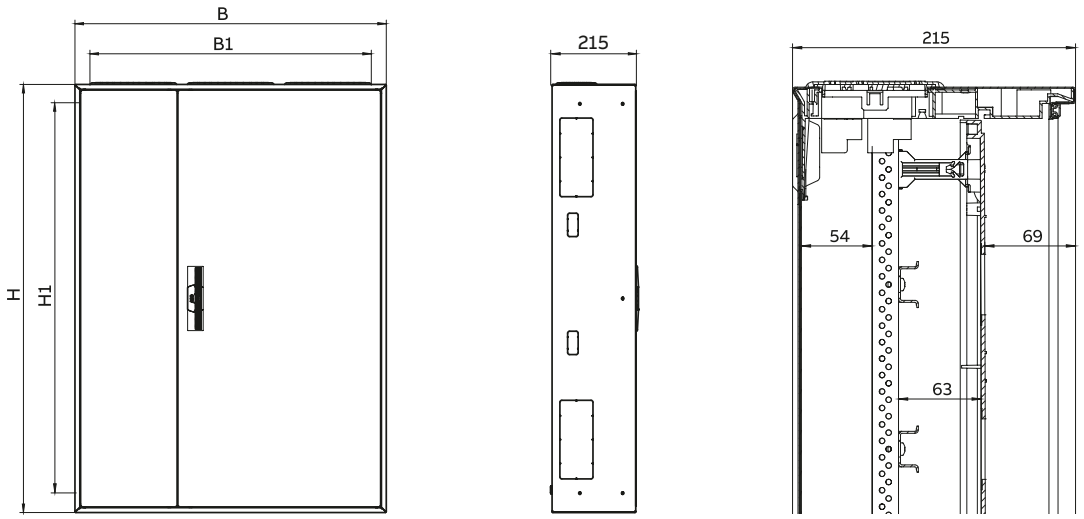
> Double-wing doors on cabinets with three or more panel widths

* In conjunction with ComfortLine B Protection class IP30

Subdistribution boards

ComfortLine B wall-mounting cabinets IP44

Dimensions



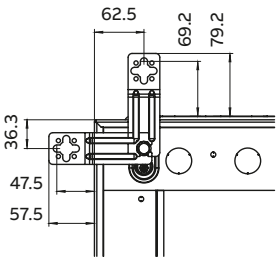
					External dimensions		Internal fastening		Door	Door
Type	GU	PW	SU	OH	H	B	H1	B1	without closure	with closure
B13		1	36		500	300	452	252	-	471 x 271
B23		2	72		500	550	452	502	-	471 x 521
B33	3	3	108	00	500	800	452	752	471 x 248	471 x 521
B14		1	48		650	300	602	252	-	621 x 271
B24		2	96		650	550	602	502	-	621 x 521
B34		3	144		650	800	602	752	621 x 248	621 x 521
B44		4	192		650	1050	602	1002	621 x 498	621 x 521
B54	4	5	240	0	650	1300	602	1252	621 x 498	621 x 771
B15		1	60		800	300	752	252	-	771 x 271
B25		2	120		800	550	752	502	-	771 x 521
B35		3	180		800	800	752	752	771 x 248	771 x 521
B45		4	240		800	1050	752	1002	771 x 498	771 x 521
B55	5	5	300	1	800	1300	752	1252	771 x 498	771 x 771
B16		1	72		950	300	902	252	-	921 x 271
B26		2	144		950	550	902	502	-	921 x 521
B36		3	216		950	800	902	752	921 x 248	921 x 521
B46		4	288		950	1050	902	1002	921 x 498	921 x 521
B56	6	5	360	2	950	1300	902	1252	921 x 498	921 x 771
B17		1	84		1100	300	1052	252	-	1071 x 271
B27		2	168		1100	550	1052	502	-	1071 x 521
B37		3	252		1100	800	1052	752	1071 x 248	1071 x 521
B47		4	336		1100	1050	1052	1002	1071 x 498	1071 x 521
B57	7	5	420	3	1100	1300	1052	1252	1071 x 498	1071 x 771
B18		1	96		1250	300	1202	252	-	1221 x 271
B28		2	192		1250	550	1202	502	-	1221 x 521
B38		3	288		1250	800	1202	752	1221 x 248	1221 x 521
B48		4	384		1250	1050	1202	1002	1221 x 498	1221 x 521
B58	8	5	480	4	1250	1300	1202	1252	1221 x 498	1221 x 771
B19		1	108		1400	300	1352	252	-	1371 x 271
B29		2	216		1400	550	1352	502	-	1371 x 521
B39		3	324		1400	800	1352	752	1371 x 248	1371 x 521
B49		4	432		1400	1050	1352	1002	1371 x 498	1371 x 521
B59	9	5	540	5	1400	1300	1352	1252	1371 x 498	1371 x 771

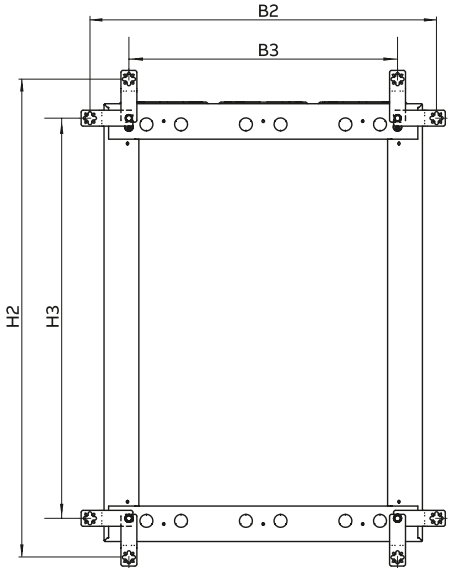
> Dimensions in mm | Double-wing doors on cabinets with three or more panel widths

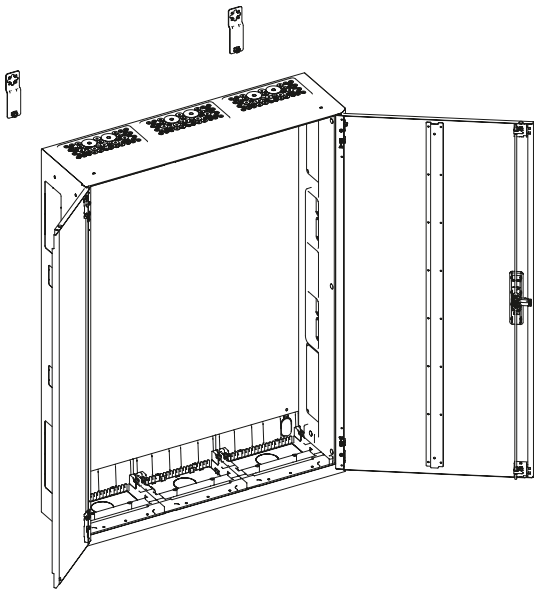
Subdistribution boards

ComfortLine B wall-mounting cabinets IP44

Dimensions and power loss







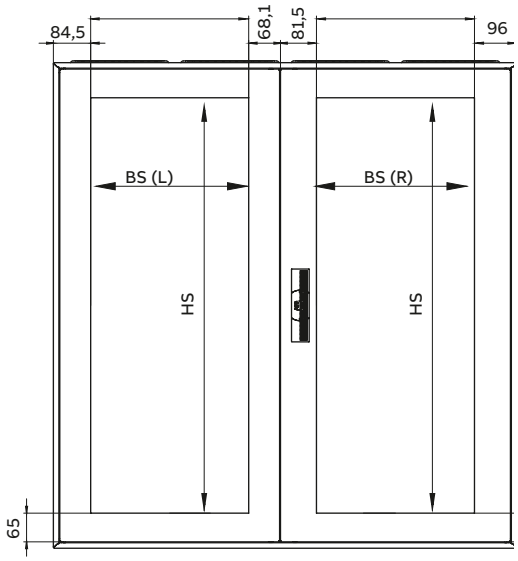
					External dimensions		Internal fastening		Power loss*
Type	**GU**	**PW**	**SU**	**OH**	**H2**	**B2**	**H3**	**B3**	**PV (W)**
B13		1	36		624 ± 12	371 ± 12	428	175	28.7
B23		2	72		624 ± 12	621 ± 12	428	425	47.2
B33	3	3	108	00	624 ± 12	871 ± 12	428	675	66.8
B14		1	48		774 ± 12	371 ± 12	578	175	35
B24		2	96		774 ± 12	621 ± 12	578	425	56
B34		3	144		774 ± 12	871 ± 12	578	675	59.5
B44		4	192		774 ± 12	1121 ± 12	578	925	80.4
B54	4	5	240	0	774 ± 12	1371 ± 12	578	1175	104.9
B15		1	60		924 ± 12	371 ± 12	728	175	41.4
B25		2	120		924 ± 12	621 ± 12	728	425	65
B35		3	180		924 ± 12	871 ± 12	728	675	69.4
B45		4	240		924 ± 12	1121 ± 12	728	925	96.1
B55	5	5	300	1	924 ± 12	1371 ± 12	728	1175	127.6
B16		1	72		1074 ± 12	371 ± 12	878	175	47.8
B26		2	144		1074 ± 12	621 ± 12	878	425	51.6
B36		3	216		1074 ± 12	871 ± 12	878	675	78.7
B46		4	288		1074 ± 12	1121 ± 12	878	925	111.9
B56	6	5	360	2	1074 ± 12	1371 ± 12	878	1175	150.1
B17		1	84		1224 ± 12	371 ± 12	1028	175	54.2
B27		2	168		1224 ± 12	621 ± 12	1028	425	60.4
B37		3	252		1224 ± 12	871 ± 12	1028	675	87.2
B47		4	336		1224 ± 12	1121 ± 12	1028	925	130.6
B57	7	5	420	3	1224 ± 12	1371 ± 12	1028	1175	170.3
B18		1	96		1374 ± 12	371 ± 12	1178	175	60.6
B28		2	192		1374 ± 12	621 ± 12	1178	425	68
B38		3	288		1374 ± 12	871 ± 12	1178	675	101
B48		4	384		1374 ± 12	1121 ± 12	1178	925	146.6
B58	8	5	480	4	1374 ± 12	1371 ± 12	1178	1175	189.7
B19		1	108		1524 ± 12	371 ± 12	1328	175	66.9
B29		2	216		1524 ± 12	621 ± 12	1328	425	77.4
B39		3	324		1524 ± 12	871 ± 12	1328	675	117.7
B49		4	432		1524 ± 12	1121 ± 12	1328	925	155.6
B59	9	5	540	5	1524 ± 12	1371 ± 12	1328	1175	189.7

> Dimensions in mm | * Power loss PV in Watt at overtemperature ΔT 20K

Subdistribution boards

ComfortLine B wall-mounting cabinets IP44

Dimensions transparent doors



Cabinet				Door without closure			Door with closure		
Type	GU	PW	BH	Type	H x W	Window BS(L) HS x BS	Type	H x W	Window BS(R) HS x BS
B13		1	00	-	-	-	CTT13S	471 x 271	341 x 108
B23		2	00	-	-	-	CTT23S	471 x 521	341 x 358
B33	3	3	00	CTT13	471 x 248	341 x 108	CTT23S	471 x 521	341 x 358
B14		1	0	-	-	-	CTT14S	621 x 271	491 x 108
B24		2	0	-	-	-	CTT24S	621 x 521	491 x 358
B34		3	0	CTT14	621 x 248	491 x 108	CTT24S	621 x 521	491 x 358
B44		4	0	CTT24	621 x 498	491 x 358	CTT24S	621 x 521	491 x 358
B54	4	5	0	CTT24	621 x 498	491 x 358	CTT34S	621 x 771	491 x 608
B15		1	1	-	-	-	CTT15S	771 x 271	641 x 108
B25		2	1	-	-	-	CTT25S	771 x 521	641 x 358
B35		3	1	CTT15	771 x 248	641 x 108	CTT25S	771 x 521	641 x 358
B45		4	1	CTT25	771 x 498	641 x 358	CTT25S	771 x 521	641 x 358
B55	5	5	1	CTT25	771 x 498	641 x 358	CTT35S	771 x 771	641 x 608
B16		1	2	-	-	-	CTT16S	921 x 271	791 x 108
B26		2	2	-	-	-	CTT26S	921 x 521	791 x 358
B36		3	2	CTT16	921 x 248	791 x 108	CTT26S	921 x 521	791 x 358
B46		4	2	CTT26	921 x 498	791 x 358	CTT26S	921 x 521	791 x 358
B56	6	5	2	CTT26	921 x 498	791 x 358	CTT36S	921 x 771	791 x 608
B17		1	3	-	-	-	CTT17S	1071 x 271	941 x 108
B27		2	3	-	-	-	CTT27S	1071 x 521	941 x 358
B37		3	3	CTT17	1071 x 248	941 x 108	CTT27S	1071 x 521	941 x 358
B47		4	3	CTT27	1071 x 498	941 x 358	CTT27S	1071 x 521	941 x 358
B57	7	5	3	CTT27	1071 x 498	941 x 358	CTT37S	1071 x 771	941 x 608
B18		1	4	-	-	-	CTT18S	1221 x 271	1091 x 108
B28		2	4	-	-	-	CTT28S	1221 x 521	1091 x 358
B38		3	4	CTT18	1221 x 248	1091 x 108	CTT28S	1221 x 521	1091 x 358
B48		4	4	CTT28	1221 x 498	1091 x 358	CTT28S	1221 x 521	1091 x 358
B58	8	5	4	CTT28	1221 x 498	1091 x 358	CTT38S	1221 x 771	1091 x 608
B19		1	5	-	-	-	CTT19S	1371 x 271	1241 x 108
B29		2	5	-	-	-	CTT29S	1371 x 521	1241 x 358
B39		3	5	CTT19	1371 x 248	1241 x 108	CTT29S	1371 x 521	1241 x 358
B49		4	5	CTT29	1371 x 498	1241 x 358	CTT29S	1371 x 521	1241 x 358
B59	9	5	5	CTT29	1371 x 498	1241 x 358	CTT39S	1371 x 771	1241 x 608

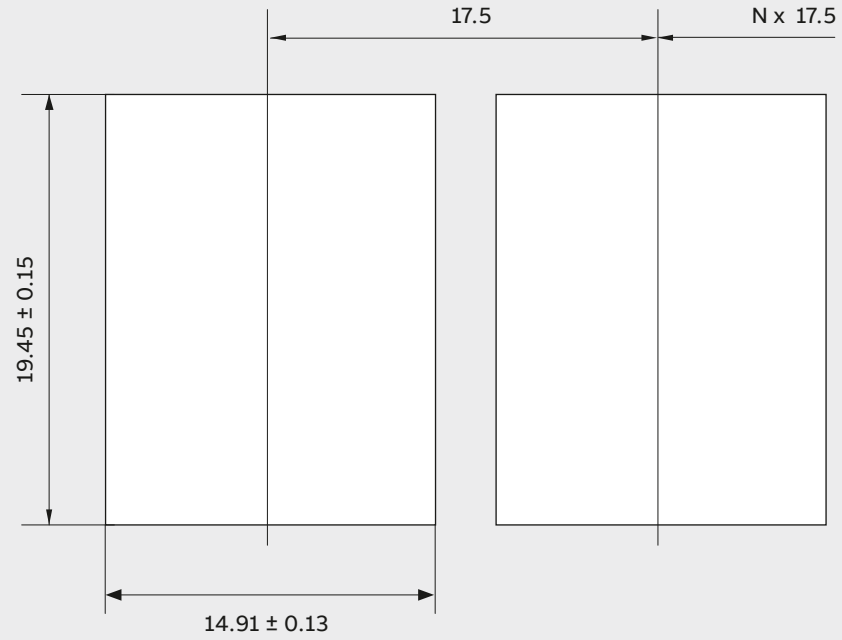
> Dimensions in mm | Double-wing doors on cabinets with three or more panel widths

Subdistribution boards

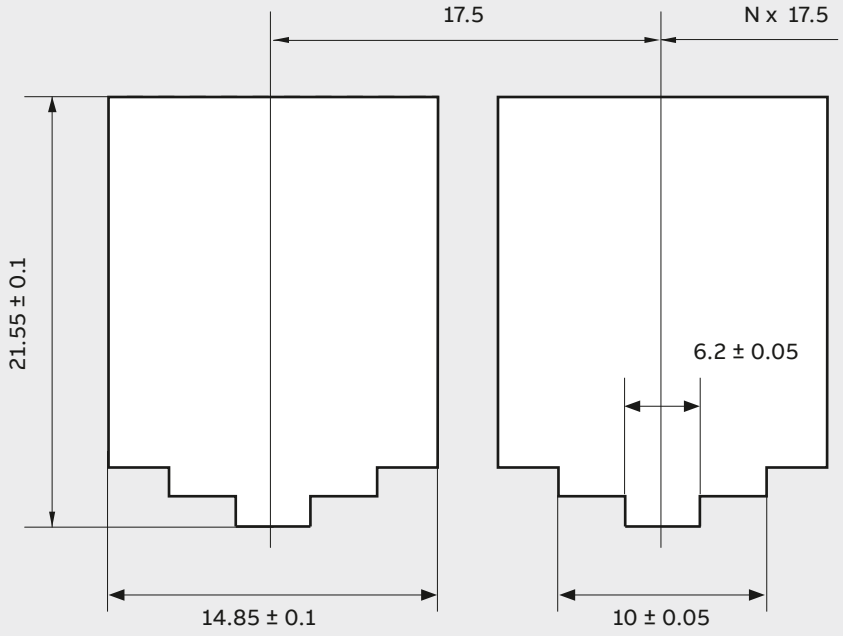
ComfortLine A/B wall-mounting cabinets IP44

Dimensions of the knockouts for the Keystone- and E-Dat-modules

Knockouts Keystone-modules



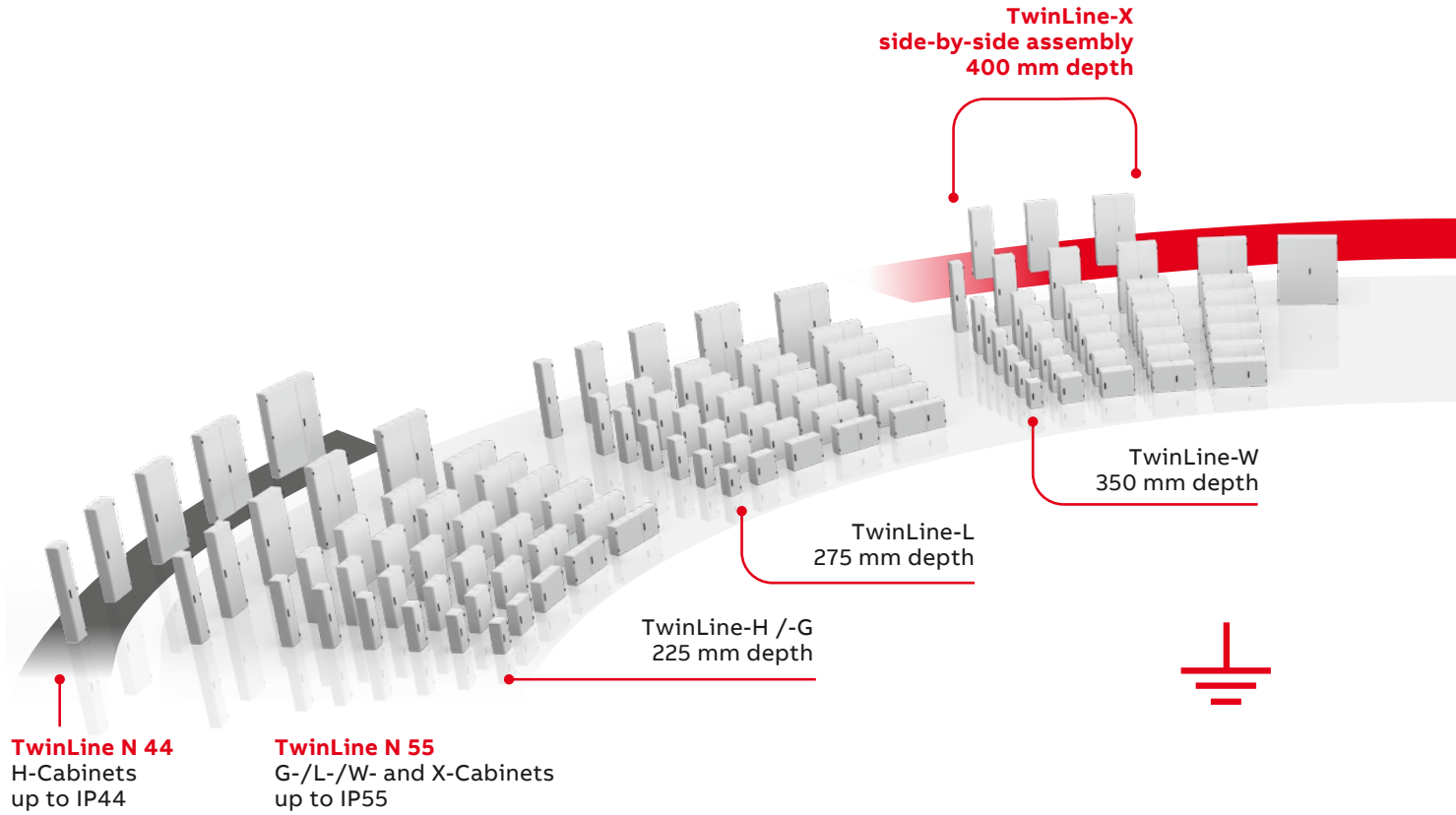
Knockouts E-Dat-modules



> Dimensions in mm

TwinLine N wall mounting and floor standing cabinets:

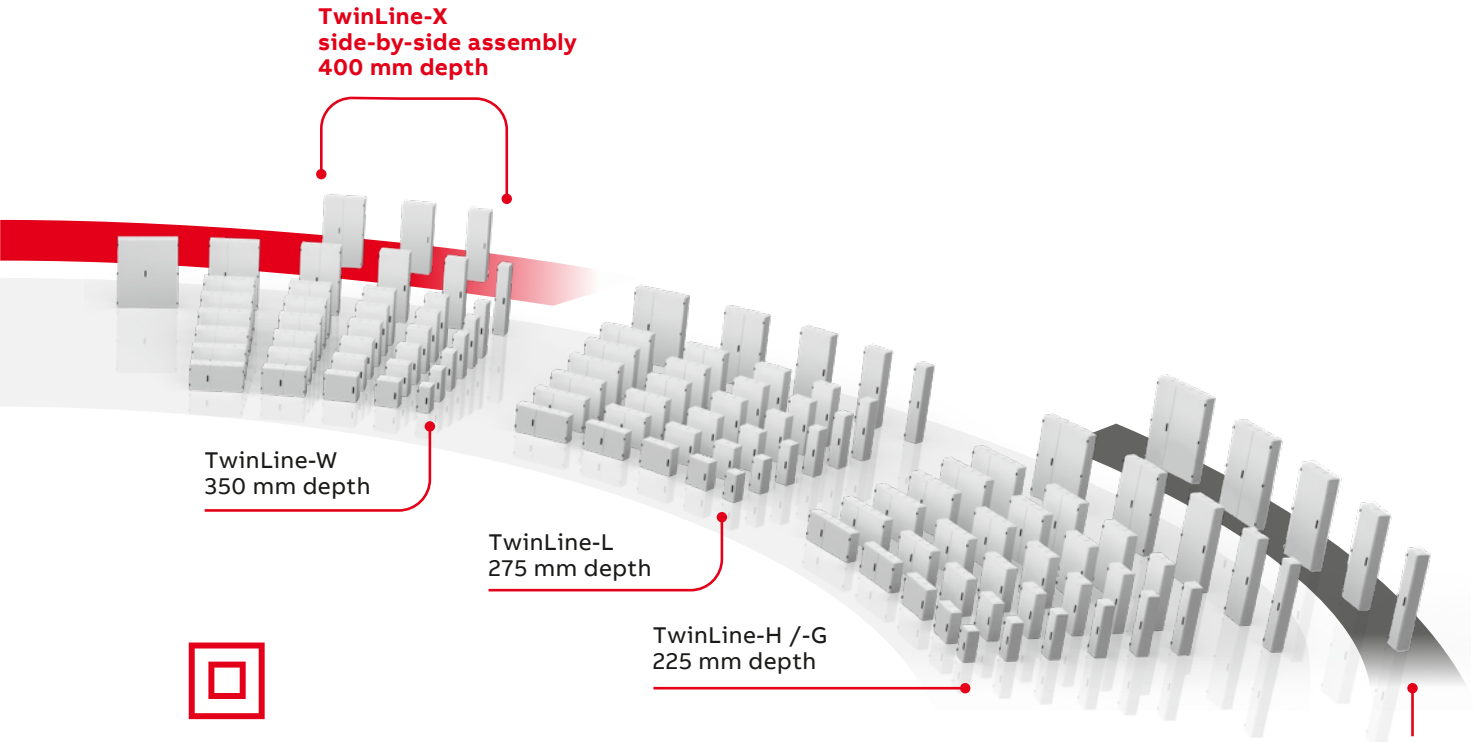
The complete cabinet system in all sizes



			TwinLine N 44					TwinLine N 55																		
Cabinet series			TwinLine-H					**TwinLine-G**					**TwinLine-L**					**TwinLine-W**						**TwinLine-X**				
Protection class			up to IP44					up to IP55					up to IP55					up to IP55						up to IP55				
Depth			**225**					**225**					**275**					**350**						**400**				
Width			300	550	800	1050	1300	300	550	800	1050	1300	300	550	800	1050	1300	300	550	800	1050	1300	1550	300	550	800	1050	1300
Height	RE 4	650	-	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-	-	-	-	-	-
	RE 5	800	-	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-	-	-	-	-	-
	RE 6	950	-	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-	-	-	-	-	-
	RE 7	1100	-	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-	-	-	-	-	-
	RE 8	1250	-	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-	-	-	-	-	-
	RE 9	1400	-	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-	-	-	-	-	-
	RE 12	1850	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-	●	●	●	-

> Dimension in mm

- One system
- Two protection classes
- Four cabinet depths
- Unlimited possibilities



			TwinLine N 44					TwinLine N 55																	
Cabinet series			TwinLine-H					**TwinLine-G**					**TwinLine-L**					**TwinLine-W**						**TwinLine-X**				
Protection class			up to IP44					up to IP55					up to IP55					bis IP55						up to IP55				
Depth			**225**					**225**					**275**					**350**						**400**				
Width			300	550	800	1050	1300	300	550	800	1050	1300	300	550	800	1050	1300	300	550	800	1050	1300	1550	300	550	800	1050	1300
Height	RE 4	650	-	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-	-	-	-	-	-
	RE 5	800	-	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-	-	-	-	-	-
	RE 6	950	-	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-	-	-	-	-	-
	RE 7	1100	-	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-	-	-	-	-	-
	RE 8	1250	-	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-	-	-	-	-	-
	RE 9	1400	-	-	-	-	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-	-	-	-	-	-
	RE 12	1850	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-	●	●	●	-

> Dimension in mm

TwinLine N 44 floor-standing cabinets



TwinLine N 44 floor-standing cabinets

Specifications and product features

Specifications for TwinLine H	
Standards/regulations	DIN EN 61439-1/-2/-3, DIN VDE 0660-600-1/-2/-3*
Protection class	I, earthed
	II, insulated
Degree of protection	with IP44 door
	Without IP30 door, when expanded as an installation distributor with meter and distributor fields, combination sets or CombiLine modules
Mechanical impact strength	IK08 for the cabinet housing with steel-sheet door
	IK07 in the area of flange knock-outs
Ambient conditions	Indoor installation
	Ambient temperature max. + 40 °C
	Ambient temperature min. - 5 °C
	Operating temperature max. + 55 °C
	Storage temperature max. + 55 °C
	Storage temperature min. - 5 °C

Product features for TwinLine H	
Housing and doors	Made of sheet steel, color RAL 7035, powder-coated
	A flange opening is cut out for each field width, knock-outs are on the bottom
	Door opening angle 180 degrees
	Double door cabinets with field width 4 and over
	Doors with rod lock
	Standard closure, double-bit 3 mm
Assembly options*	Prepared for expansion with meter and distributor fields, combination sets or CombiLine modules on EDF mounting frame
Forms of delivery	Housing with door
	External mounting lugs are included in the scope of delivery
	Support elements for each field width are included in the scope of delivery
	Touch protection included in the scope of delivery
	Middle support rail included in the scope of delivery
Accessories	Flanges must be ordered separately
	Base must be ordered separately

*The permissible heating for switchgear combinations (SK) up to 630 A rated current can be verified using the procedure according to 10.10.4.2; The required values of the power dissipation capacity for TwinLine N 44 standing cabinets refer to the tables on page ; above 630 A rated current, the procedure in accordance with 10.10.4.3 (DIN EN 61439-1 supplementary sheet 2, DIN VDE 0660-600-1 supplementary sheet 2) must be applied

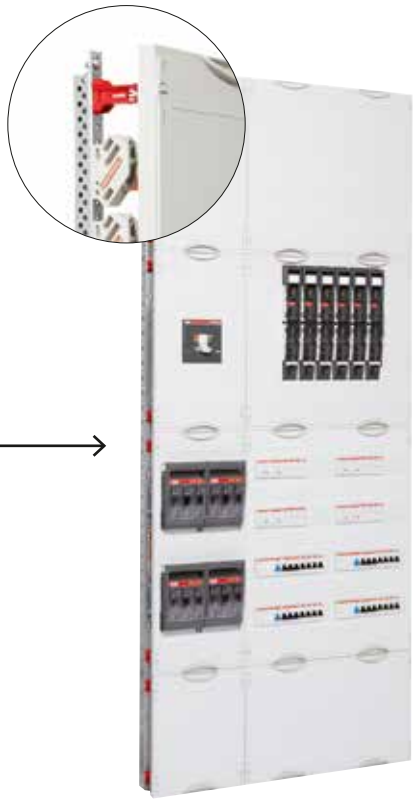
TwinLine N 44 floor-standing cabinets

Delivery condition and expansion variants



TH312G

- Support components for each field width are pre-assembled
- Middle support rail and touch protection are included in the scope of delivery



EDFmounting frame installation
Expansion to an installation distributor with meter and distributor fields, combination sets or CombiLine modules on EDF mounting frame possible

TwinLine N 44 floor-standing cabinets

TwinLine-H, cabinet depth 225 mm, ⏚ ⧈



TH312G

Included in the scope of delivery

- External mounting brackets
- Supports for expansion with EDF mounting frame
- Middle support rail
- Touch protection

Order accessories separately

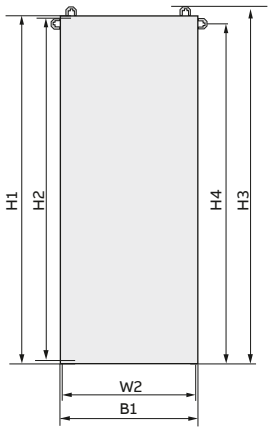
- Flanges
- Base

Height		Width		External dimensions	Floor-standing cabinets with door IP44	
RE	BH	FB	PLE	H x W in mm	Type	Order code
TwinLine-H, cabinet depth 225 mm ⏚						
12	8	1	144	1850 x 300	TH112G	2CPX010948R9999
		2	288	1850 x 550	TH212G	2CPX010950R9999
		3	432	1850 x 800	TH312G	2CPX010952R9999
		4	576	1850 x 1050	TH412G	2CPX010954R9999
		5	720	1850 x 1300	TH512G	2CPX010957R9999
TwinLine-H, cabinet depth 225 mm ⧈						
12	8	1	144	1850 x 300	TH112S	2CPX010949R9999
		2	288	1850 x 550	TH212S	2CPX010951R9999
		3	432	1850 x 800	TH312S	2CPX010953R9999
		4	576	1850 x 1050	TH412S	2CPX010955R9999
		5	720	1850 x 1300	TH512S	2CPX010958R9999

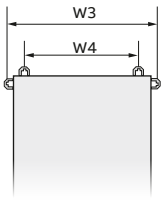
TwinLine N 44 floor-standing cabinets

Dimensions, weights,power dissipation

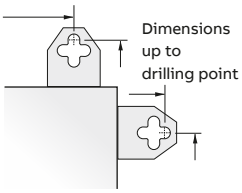
Front view



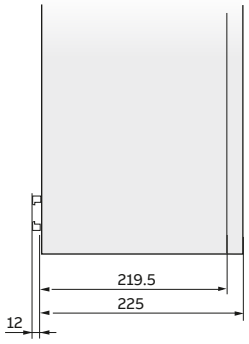
Front view



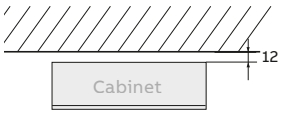
Detailed view



Side view



Top view



Height		Width		⏚ / ⊡ External dimensions in mm		⏚ / ⊡ Internal dimensions in mm		⏚ / ⊡ Wall mounting dimensions in mm			
RE	BH	FB	Type	H1	B1	H2	W2	H3	W3	H4	W4
TwinLine H standing cabinets											
12	8	1	TH112	1850	300	1802	252	1872	328	1796	192
		2	TH212	1850	550	1802	502	1872	578	1796	442
		3	TH312	1850	800	1802	752	1872	828	1796	692
		4	TH412	1850	1050	1802	1002	1872	1078	1796	942
		5	TH512	1850	1300	1802	1252	1872	1328	1796	1192

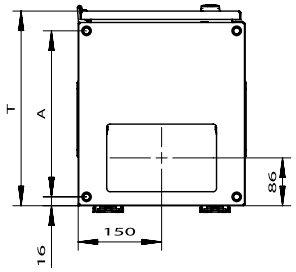
Height		Width		⏚ / ⊡ Power dissipation in watts* at overtemperature △t	⏚ Cabinet weight	⊡ Cabinet weight	⏚ / ⊡ Max. installation weight
RE	BH	FB	Type	20K	With door in kg	With door in kg	in kg
TwinLine H standing cabinets							
12	8	1	TH112	64.00	25.65	27.33	45
		2	TH212	113.00	39.44	41.77	90
		3	TH312	162.60	50.88	53.86	135
		4	TH412	202.10	64.70	69.72	180
		5	TH512	230.80	75.82	80.21	225

* General remarks on the determination of the power dissipation: Values in accordance with DIN EN 61439-1 section 10.10.4.2.2; ambient temperature 35 °C, internal temperature 55 ° C, it must be guaranteed that the permissible operating medium temperature is not exceeded; height of the installation location ≤ 2000 m above sea level; shape of inner divider = 1; side walls not covered

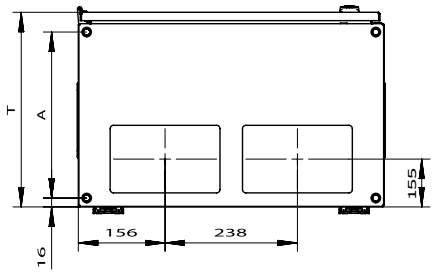
TwinLine N 44 floor-standing cabinets

Flange openings at the top and knock-outs at the bottom

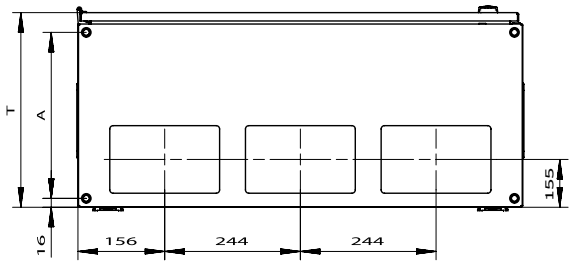
TH1...



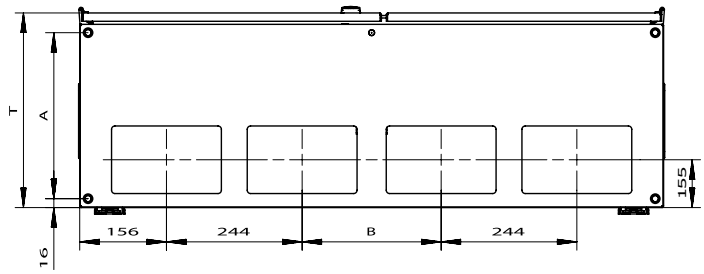
TH2...



TH3...



TH4...
TH5...

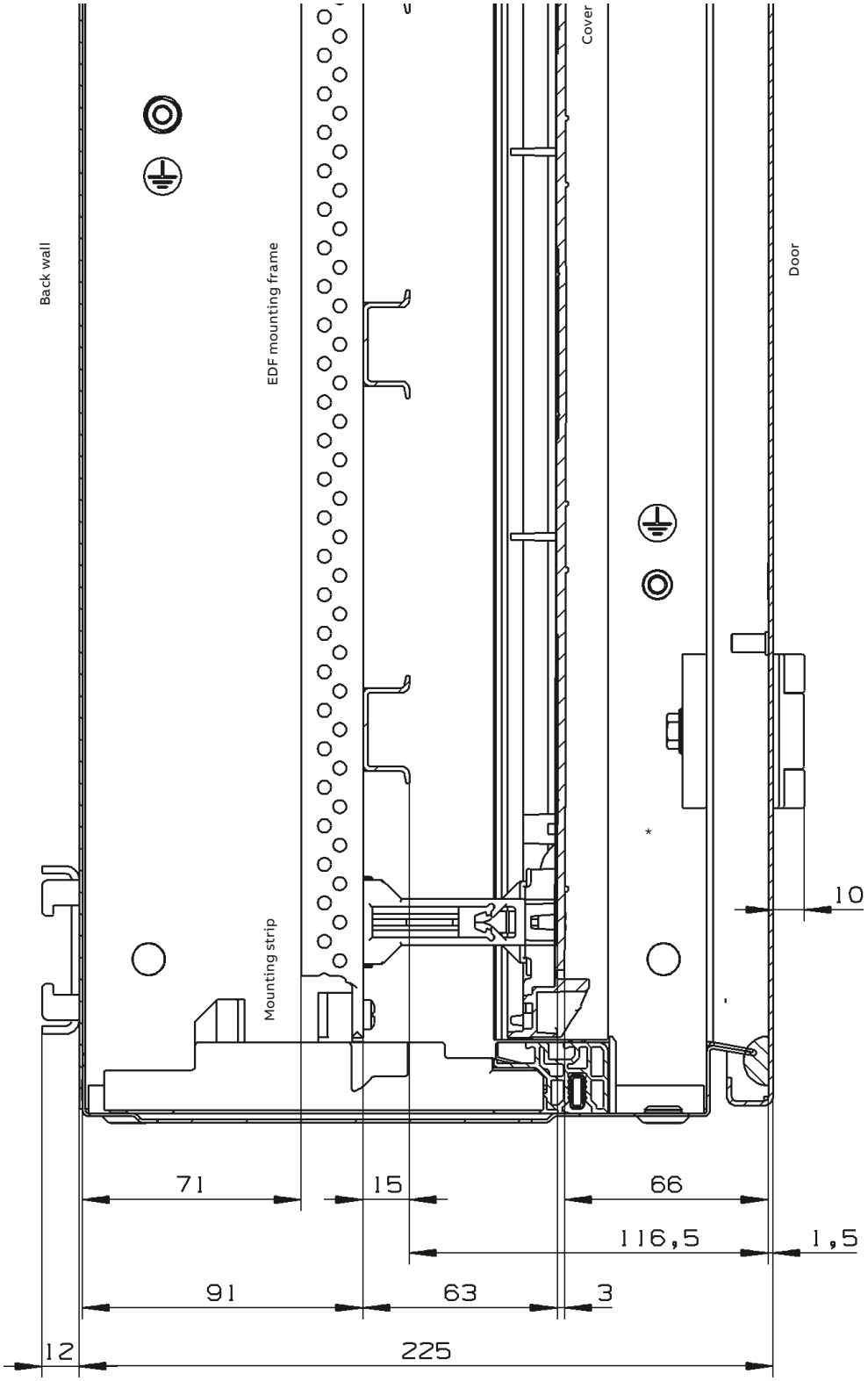


Cabinet series	Depth in mm	A in mm	B in mm/field width 4	B in mm/field width 5
TwinLine-H	225.00	173.50	1 x 250 (250)	2 x 250 (500)

> Dimensions in mm

TwinLine N 44 floor-standing cabinets

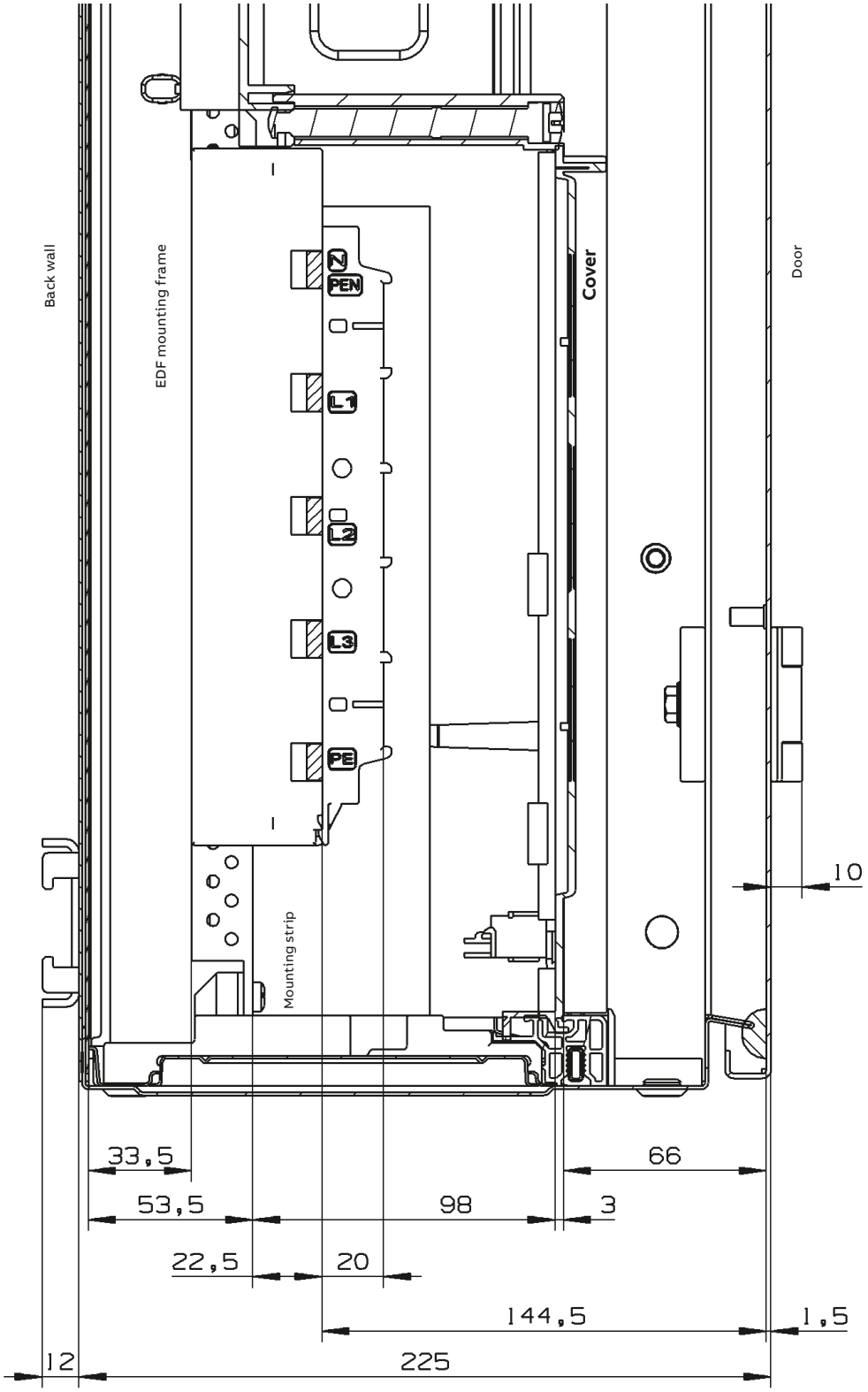
Installation of CombiLine N modules on EDF mounting frame



> Dimensions in mm

TwinLine N 44 floor-standing cabinets

Installation with meter field for TwinLine-H ⧈

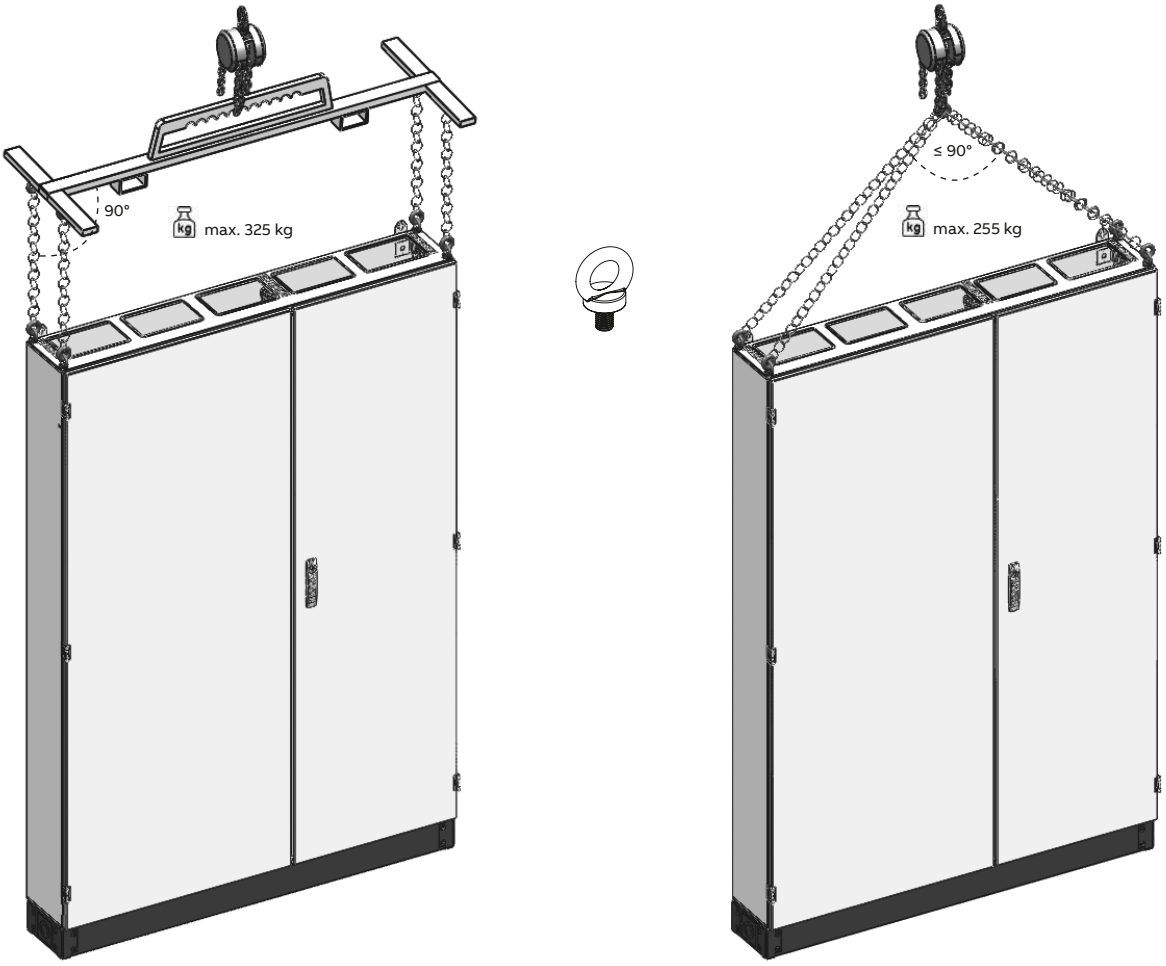


> Dimensions in mm

TwinLine N 44 floor-standing cabinets

Crane transport

The lifting of the TwinLine housing is possible in accordance with the information given. Here it is imperative that transport eye bolts from ABB STRIEBEL & JOHN with order code TZ615P4 are used. Crane transport must be provided exclusively for individual cabinets! Furthermore, the maximum installation weights of the cabinets must be observed.



Notes

TwinLine N 55 wall cabinets and floor-standing cabinets

Wall cabinets



TwinLine N 55 wall cabinets and floor-standing cabinets

Wall cabinets/specifications and product features

Specifications for TwinLine-G, -L and -W	
Standards/regulations	DIN EN 61439-1/-2/-3, DIN VDE 0660-600-1/-2/-3*[1]
Protection class	I, earthed
	II, insulated
Degree of protection	with IP55 door
	Without IP30 door, when expanded as an installation distributor with meter and distributor fields, combination sets or CombiLine modules
Mechanical impact strength	IK08 for the cabinet housing with steel-sheet door
	IK07 in the area of flange knock-outs and for transparent doors
Ambient conditions	Indoor installation
	Ambient temperature max. + 40 °C
	Ambient temperature min. - 5 °C
	Operating temperature max. + 55 °C
	Storage temperature max. + 55 °C
	Storage temperature min. - 5 °C

Product features for TwinLine-G, -L and -W	
Housing and doors	Made of sheet steel, color RAL 7035, powder-coated
	A flange opening is cut out for each field width, knock-outs are on the side and bottom
	Door opening angle 180 degrees
	Double door cabinets with field width 4 and over
	Doors with rod lock
	Standard closure, double-bit 3 mm
Assembly options*	Prepared for expansion with meter and distributor fields, combination sets or CombiLine modules on EDF mounting frame
	Prepared for expansion with CombiLine modules on the WRmounting frame and mounting plates, by removing the EDF adapter
Forms of delivery	Housing with door
	Housing without door
	External mounting lugs are included in the scope of delivery
	Mounting strips with left and right mounting frame brackets, as well as an additional mounting strip for field width 4 and above cabinets, are included in the scope of delivery
	Touch protection for the insulated cabinet is included in the scope of delivery
	Touch protection for the earthed cabinet must be ordered separately as an accessory
Accessories	For housings without doors, the door can be ordered separately , as needed
	Flanges must be ordered separately
	Touch protection for the earthed cabinet must be ordered separately

*[1] The permissible heating for switchgear combinations (SK) up to 630 A rated current can be verified using the procedure according to 10.10.4.2; for the required values of the power dissipation capacity, please refer to the tables on page above 630 A rated current, the procedure according to 10.10.4.3 (DIN EN 61439-1 supplementary sheet 2, DIN VDE 0660-600-1 supplementary sheet 2) must be applied

* For detailed description of the assembly options of floor-standing cabinets se next pages in this chapter

TwinLine N 55 wall cabinets and floor-standing cabinets

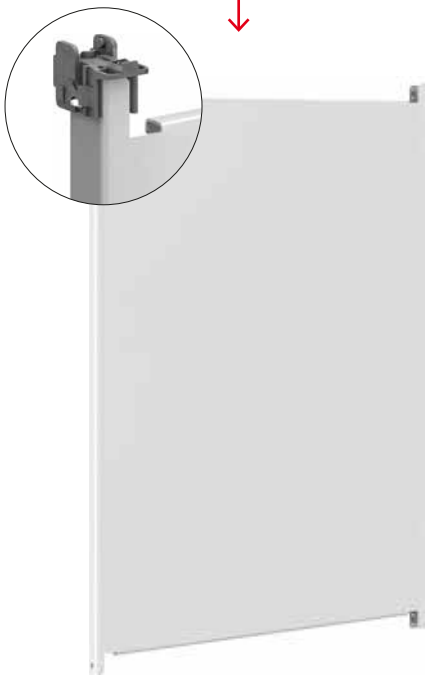
Wall cabinets/assembly options ⏚



TG306G

Additionally order touch protection

Additionally order touch protection



Mounting plate installation
Expansion for the control technology with mounting plate, by removing the EDF adapter



EDFmounting frame installation
Expansion as an installation distributor with meter and distributor fields, combination sets or CombiLine modules on EDFmounting frame



Installation of WRmounting frame
Expansion as an installation distributor with CombiLine modules on WR mounting frame, by removing the EDF Adapter

A combination of the individual expansion variants next to each other is possible.

TwinLine N 55 wall cabinets and floor-standing cabinets

Wall cabinets/assembly options



TG306S

Touch protection included in the scope of delivery

Touch protection included in the scope of delivery



EDFmounting frame installation
Expansion as an installation distributor with meter and distributor fields, combination sets or CombiLine modules on EDFmounting frame



Installation of WRmounting frame
Expansion as an installation distributor with CombiLine modules on WR mounting frame, by removing the EDF Adapter

A combination of the individual expansion variants next to each other is possible.

TwinLine N 55 wall cabinets and floor-standing cabinets

TwinLine-G wall cabinet, cabinet depth 225 mm ⏚



TG306G

Included in the scope of delivery

- External mounting brackets
- Mounting rails with left and right mounting frame brackets, as well as an additional mounting rail for cabinets with field width 4 and above
- Supports for expansion with meter and distributor fields, combination sets or CombiLine modules on EDF mounting frame
- Support for expansion with CombiLine modules on WRmounting frame and mounting plates, by removing the EDF Adapter

Order accessories separately

- Flanges
- Touch protection for expansion with meter and distributor fields, combination sets or CombiLine modules

Height		Width		External dimensions*2	Wall cabinets with door IP55		Wall cabinets without door IP30	
RE	BH	FB	PLE	H x W in mm	Type	Order code	Type	Order code
4	0	1	48	650 x 300	TG104G	2CPX010000R9999	TG104GB	2CPX010221R9999
		2	96	650 x 550	TG204G	2CPX010001R9999	TG204GB	2CPX010222R9999
		3	144	650 x 800	TG304G	2CPX010002R9999	TG304GB	2CPX010223R9999
		4	192	650 x 1050	TG404G	2CPX010003R9999	TG404GB	2CPX010224R9999
		5	240	650 x 1300	TG504G	2CPX010004R9999	TG504GB	2CPX010225R9999
5	1	1	60	800 x 300	TG105G	2CPX010005R9999	TG105GB	2CPX010226R9999
		2	120	800 x 550	TG205G	2CPX010006R9999	TG205GB	2CPX010227R9999
		3	180	800 x 800	TG305G	2CPX010007R9999	TG305GB	2CPX010228R9999
		4	240	800 x 1050	TG405G	2CPX010008R9999	TG405GB	2CPX010229R9999
		5	300	800 x 1300	TG505G	2CPX010009R9999	TG505GB	2CPX010230R9999
6	2	1	72	950 x 300	TG106G	2CPX010010R9999	TG106GB	2CPX010231R9999
		2	144	950 x 550	TG206G	2CPX010011R9999	TG206GB	2CPX010232R9999
		3	216	950 x 800	TG306G	2CPX010012R9999	TG306GB	2CPX010233R9999
		4	288	950 x 1050	TG406G	2CPX010013R9999	TG406GB	2CPX010234R9999
		5	360	950 x 1300	TG506G	2CPX010014R9999	TG506GB	2CPX010235R9999
7	3	1	84	1100 x 300	TG107G	2CPX010015R9999	TG107GB	2CPX010236R9999
		2	168	1100 x 550	TG207G	2CPX010016R9999	TG207GB	2CPX010237R9999
		3	252	1100 x 800	TG307G	2CPX010017R9999	TG307GB	2CPX010238R9999
		4	336	1100 x 1050	TG407G	2CPX010018R9999	TG407GB	2CPX010239R9999
		5	420	1100 x 1300	TG507G	2CPX010019R9999	TG507GB	2CPX010240R9999
8	4	1	96	1250 x 300	TG108G	2CPX010020R9999	TG108GB	2CPX010241R9999
		2	192	1250 x 550	TG208G	2CPX010021R9999	TG208GB	2CPX010242R9999
		3	288	1250 x 800	TG308G	2CPX010022R9999	TG308GB	2CPX010243R9999
		4	384	1250 x 1050	TG408G	2CPX010023R9999	TG408GB	2CPX010244R9999
		5	480	1250 x 1300	TG508G	2CPX010024R9999	TG508GB	2CPX010245R9999
9	5	1	108	1400 x 300	TG109G	2CPX010025R9999	TG109GB	2CPX010246R9999
		2	216	1400 x 550	TG209G	2CPX010026R9999	TG209GB	2CPX010247R9999
		3	324	1400 x 800	TG309G	2CPX010027R9999	TG309GB	2CPX010248R9999
		4	432	1400 x 1050	TG409G	2CPX010028R9999	TG409GB	2CPX010249R9999
		5	540	1400 x 1300	TG509G	2CPX010029R9999	TG509GB	2CPX010250R9999

*1 When expanding as an installation distributor with meter and distributor fields, combination sets or CombiLine modules
*2 External dimensions are without flange embossing.

TwinLine N 55 wall cabinets and floor-standing cabinets

TwinLine-G wall cabinet, cabinet depth 225 mm



TG306S

Included in the scope of delivery

- External mounting brackets
- Touch protection
- Mounting rails with left and right mounting frame brackets, as well as an additional mounting rail for cabinets with field width 4 and above
- Supports for expansion with meter and distributor fields, combination sets or CombiLine modules on EDFmounting frame
- Support for expansion with CombiLine modules on WR mounting frame, by removing the EDF Adapter

Order accessories separately

- Flanges

Height		Width		External dimensions*2	Wall cabinets with door IP55		Wall cabinets without door IP30*1	
RE	BH	FB	PLE	H x W in mm	Type	Order code	Type	Order code
4	0	1	48	650 x 300	TG104S	2CPX010035R9999	TG104SB	2CPX010256R9999
		2	96	650 x 550	TG204S	2CPX010036R9999	TG204SB	2CPX010257R9999
		3	144	650 x 800	TG304S	2CPX010037R9999	TG304SB	2CPX010258R9999
		4	192	650 x 1050	TG404S	2CPX010038R9999	TG404SB	2CPX010259R9999
		5	240	650 x 1300	TG504S	2CPX010039R9999	TG504SB	2CPX010260R9999
5	1	1	60	800 x 300	TG105S	2CPX010040R9999	TG105SB	2CPX010261R9999
		2	120	800 x 550	TG205S	2CPX010041R9999	TG205SB	2CPX010262R9999
		3	180	800 x 800	TG305S	2CPX010042R9999	TG305SB	2CPX010263R9999
		4	240	800 x 1050	TG405S	2CPX010043R9999	TG405SB	2CPX010264R9999
		5	300	800 x 1300	TG505S	2CPX010044R9999	TG505SB	2CPX010265R9999
6	2	1	72	950 x 300	TG106S	2CPX010045R9999	TG106SB	2CPX010266R9999
		2	144	950 x 550	TG206S	2CPX010046R9999	TG206SB	2CPX010267R9999
		3	216	950 x 800	TG306S	2CPX010047R9999	TG306SB	2CPX010268R9999
		4	288	950 x 1050	TG406S	2CPX010048R9999	TG406SB	2CPX010269R9999
		5	360	950 x 1300	TG506S	2CPX010049R9999	TG506SB	2CPX010270R9999
7	3	1	84	1100 x 300	TG107S	2CPX010050R9999	TG107SB	2CPX010271R9999
		2	168	1100 x 550	TG207S	2CPX010051R9999	TG207SB	2CPX010272R9999
		3	252	1100 x 800	TG307S	2CPX010052R9999	TG307SB	2CPX010273R9999
		4	336	1100 x 1050	TG407S	2CPX010053R9999	TG407SB	2CPX010274R9999
		5	420	1100 x 1300	TG507S	2CPX010054R9999	TG507SB	2CPX010275R9999
8	4	1	96	1250 x 300	TG108S	2CPX010055R9999	TG108SB	2CPX010276R9999
		2	192	1250 x 550	TG208S	2CPX010056R9999	TG208SB	2CPX010277R9999
		3	288	1250 x 800	TG308S	2CPX010057R9999	TG308SB	2CPX010278R9999
		4	384	1250 x 1050	TG408S	2CPX010058R9999	TG408SB	2CPX010279R9999
		5	480	1250 x 1300	TG508S	2CPX010059R9999	TG508SB	2CPX010280R9999
9	5	1	108	1400 x 300	TG109S	2CPX010060R9999	TG109SB	2CPX010281R9999
		2	216	1400 x 550	TG209S	2CPX010061R9999	TG209SB	2CPX010282R9999
		3	324	1400 x 800	TG309S	2CPX010062R9999	TG309SB	2CPX010283R9999
		4	432	1400 x 1050	TG409S	2CPX010063R9999	TG409SB	2CPX010284R9999
		5	540	1400 x 1300	TG509S	2CPX010064R9999	TG509SB	2CPX010285R9999

*1 When expanding as an installation distributor with meter and distributor fields, combination sets or CombiLine modules

*2 External dimensions are without flange embossing.

TwinLine N 55 wall cabinets and floor-standing cabinets

TwinLine-L wall cabinets, cabinet depth 275 mm ⏚



TL306G

Included in the scope of delivery

- External mounting brackets
- Mounting rails with left and right mounting frame brackets, as well as an additional mounting rail for cabinets with field width 4 and above
- Supports for expansion with meter and distributor fields, combination sets or CombiLine modules on EDF mounting frame
- Support for expansion with CombiLine modules on WR mounting frame and mounting plates, by removing the EDF Adapter

Order accessories separately

- Flanges
- Touch protection for expansion with meter and distributor fields, combination sets or CombiLine modules

Height		Width		External dimensions*2	Wall cabinets with door IP55		Wall cabinets without door IP30*1	
RE	BH	FB	PLE	H x W in mm	Type	Order code	Type	Order code
4	0	1	48	650 x 300	TL104G	2CPX010070R9999	TL104GB	2CPX010291R9999
		2	96	650 x 550	TL204G	2CPX010071R9999	TL204GB	2CPX010292R9999
		3	144	650 x 800	TL304G	2CPX010072R9999	TL304GB	2CPX010293R9999
		4	192	650 x 1050	TL404G	2CPX010073R9999	TL404GB	2CPX010294R9999
		5	240	650 x 1300	TL504G	2CPX010074R9999	TL504GB	2CPX010295R9999
5	1	1	60	800 x 300	TL105G	2CPX010075R9999	TL105GB	2CPX010296R9999
		2	120	800 x 550	TL205G	2CPX010076R9999	TL205GB	2CPX010297R9999
		3	180	800 x 800	TL305G	2CPX010077R9999	TL305GB	2CPX010298R9999
		4	240	800 x 1050	TL405G	2CPX010078R9999	TL405GB	2CPX010299R9999
		5	300	800 x 1300	TL505G	2CPX010079R9999	TL505GB	2CPX010300R9999
6	2	1	72	950 x 300	TL106G	2CPX010080R9999	TL106GB	2CPX010301R9999
		2	144	950 x 550	TL206G	2CPX010081R9999	TL206GB	2CPX010302R9999
		3	216	950 x 800	TL306G	2CPX010082R9999	TL306GB	2CPX010303R9999
		4	288	950 x 1050	TL406G	2CPX010083R9999	TL406GB	2CPX010304R9999
		5	360	950 x 1300	TL506G	2CPX010084R9999	TL506GB	2CPX010305R9999
7	3	1	84	1100 x 300	TL107G	2CPX010085R9999	TL107GB	2CPX010306R9999
		2	168	1100 x 550	TL207G	2CPX010086R9999	TL207GB	2CPX010307R9999
		3	252	1100 x 800	TL307G	2CPX010087R9999	TL307GB	2CPX010308R9999
		4	336	1100 x 1050	TL407G	2CPX010088R9999	TL407GB	2CPX010309R9999
		5	420	1100 x 1300	TL507G	2CPX010089R9999	TL507GB	2CPX010310R9999
8	4	1	96	1250 x 300	TL108G	2CPX010090R9999	TL108GB	2CPX010311R9999
		2	192	1250 x 550	TL208G	2CPX010091R9999	TL208GB	2CPX010312R9999
		3	288	1250 x 800	TL308G	2CPX010092R9999	TL308GB	2CPX010313R9999
		4	384	1250 x 1050	TL408G	2CPX010093R9999	TL408GB	2CPX010314R9999
		5	480	1250 x 1300	TL508G	2CPX010094R9999	TL508GB	2CPX010315R9999
9	5	1	108	1400 x 300	TL109G	2CPX010095R9999	TL109GB	2CPX010316R9999
		2	216	1400 x 550	TL209G	2CPX010096R9999	TL209GB	2CPX010317R9999
		3	324	1400 x 800	TL309G	2CPX010097R9999	TL309GB	2CPX010318R9999
		4	432	1400 x 1050	TL409G	2CPX010098R9999	TL409GB	2CPX010319R9999
		5	540	1400 x 1300	TL509G	2CPX010099R9999	TL509GB	2CPX010320R9999

*1 When expanding as an installation distributor with meter and distributor fields, combination sets or CombiLine modules

*2 External dimensions are without flange embossing.

TwinLine N 55 wall cabinets and floor-standing cabinets

TwinLine-L wall cabinets, cabinet depth 275 mm ⏚



TL306S

Included in the scope of delivery

- External mounting brackets
- Touch protection
- Mounting rails with left and right mounting frame brackets, as well as an additional mounting rail for cabinets with field width 4 and above
- Supports for expansion with meter and distributor fields, combination sets or CombiLine modules on EDFmounting frame
- Support for expansion with CombiLine modules on WRmounting frame, by removing the EDF Adapter

Order accessories separately

- Flanges

Height		Width		External dimensions*2	Wall cabinets with door IP55		Wall cabinets without door IP30*1	
RE	BH	FB	PLE	H x W in mm	Type	Order code	Type	Order code
4	0	1	48	650 x 300	TL104S	2CPX010105R9999	TL104SB	2CPX010326R9999
		2	96	650 x 550	TL204S	2CPX010106R9999	TL204SB	2CPX010327R9999
		3	144	650 x 800	TL304S	2CPX010107R9999	TL304SB	2CPX010328R9999
		4	192	650 x 1050	TL404S	2CPX010108R9999	TL404SB	2CPX010329R9999
		5	240	650 x 1300	TL504S	2CPX010109R9999	TL504SB	2CPX010330R9999
5	1	1	60	800 x 300	TL105S	2CPX010110R9999	TL105SB	2CPX010331R9999
		2	120	800 x 550	TL205S	2CPX010111R9999	TL205SB	2CPX010332R9999
		3	180	800 x 800	TL305S	2CPX010112R9999	TL305SB	2CPX010333R9999
		4	240	800 x 1050	TL405S	2CPX010113R9999	TL405SB	2CPX010334R9999
		5	300	800 x 1300	TL505S	2CPX010114R9999	TL505SB	2CPX010335R9999
6	2	1	72	950 x 300	TL106S	2CPX010115R9999	TL106SB	2CPX010336R9999
		2	144	950 x 550	TL206S	2CPX010116R9999	TL206SB	2CPX010337R9999
		3	216	950 x 800	TL306S	2CPX010117R9999	TL306SB	2CPX010338R9999
		4	288	950 x 1050	TL406S	2CPX010118R9999	TL406SB	2CPX010339R9999
		5	360	950 x 1300	TL506S	2CPX010119R9999	TL506SB	2CPX010340R9999
7	3	1	84	1100 x 300	TL107S	2CPX010120R9999	TL107SB	2CPX010341R9999
		2	168	1100 x 550	TL207S	2CPX010121R9999	TL207SB	2CPX010342R9999
		3	252	1100 x 800	TL307S	2CPX010122R9999	TL307SB	2CPX010343R9999
		4	336	1100 x 1050	TL407S	2CPX010123R9999	TL407SB	2CPX010344R9999
		5	420	1100 x 1300	TL507S	2CPX010124R9999	TL507SB	2CPX010345R9999
8	4	1	96	1250 x 300	TL108S	2CPX010125R9999	TL108SB	2CPX010346R9999
		2	192	1250 x 550	TL208S	2CPX010126R9999	TL208SB	2CPX010347R9999
		3	288	1250 x 800	TL308S	2CPX010127R9999	TL308SB	2CPX010348R9999
		4	384	1250 x 1050	TL408S	2CPX010128R9999	TL408SB	2CPX010349R9999
		5	480	1250 x 1300	TL508S	2CPX010129R9999	TL508SB	2CPX010350R9999
9	5	1	108	1400 x 300	TL109S	2CPX010130R9999	TL109SB	2CPX010351R9999
		2	216	1400 x 550	TL209S	2CPX010131R9999	TL209SB	2CPX010352R9999
		3	324	1400 x 800	TL309S	2CPX010132R9999	TL309SB	2CPX010353R9999
		4	432	1400 x 1050	TL409S	2CPX010133R9999	TL409SB	2CPX010354R9999
		5	540	1400 x 1300	TL509S	2CPX010134R9999	TL509SB	2CPX010355R9999

*1 When expanding as an installation distributor with meter and distributor fields, combination sets or CombiLine modules

*2 External dimensions are without flange embossing.

TwinLine N 55 wall cabinets and floor-standing cabinets

TwinLine-W wall cabinets, cabinet depth 350 mm ⏚



TW306G

Included in the scope of delivery

- External mounting brackets
- Mounting rails with left and right mounting frame brackets, as well as an additional mounting rail for cabinets with field width 4 and above
- Supports for expansion with meter and distributor fields, combination sets or CombiLine modules on EDF mounting frame
- Support for expansion with CombiLine modules on WR mounting frame and mounting plates, by removing the EDF Adapter

Order accessories separately

- Flanges
- Touch protection for expansion with meter and distributor fields, combination sets or CombiLine modules

Height		Width		External dimensions*2	Wall cabinets with door IP55		Wall cabinets without door IP30*1	
RE	BH	FB	PLE	H x W in mm	Type	Order code	Type	Order code
4	0	1	48	650 x 300	TW104G	2CPX010140R9999	TW104GB	2CPX010361R9999
		2	96	650 x 550	TW204G	2CPX010141R9999	TW204GB	2CPX010362R9999
		3	144	650 x 800	TW304G	2CPX010142R9999	TW304GB	2CPX010363R9999
		4	192	650 x 1050	TW404G	2CPX010143R9999	TW404GB	2CPX010364R9999
		5	240	650 x 1300	TW504G	2CPX010144R9999	TW504GB	2CPX010365R9999
5	1	1	60	800 x 300	TW105G	2CPX010202R9999	TW105GB	2CPX010366R9999
		2	120	800 x 550	TW205G	2CPX010203R9999	TW205GB	2CPX010367R9999
		3	180	800 x 800	TW305G	2CPX010204R9999	TW305GB	2CPX010368R9999
		4	240	800 x 1050	TW405G	2CPX010205R9999	TW405GB	2CPX010369R9999
		5	300	800 x 1300	TW505G	2CPX010206R9999	TW505GB	2CPX010370R9999
6	2	1	72	950 x 300	TW106G	2CPX010145R9999	TW106GB	2CPX010371R9999
		2	144	950 x 550	TW206G	2CPX010146R9999	TW206GB	2CPX010372R9999
		3	216	950 x 800	TW306G	2CPX010147R9999	TW306GB	2CPX010373R9999
		4	288	950 x 1050	TW406G	2CPX010148R9999	TW406GB	2CPX010374R9999
		5	360	950 x 1300	TW506G	2CPX010149R9999	TW506GB	2CPX010375R9999
7	3	1	84	1100 x 300	TW107G	2CPX010150R9999	TW107GB	2CPX010376R9999
		2	168	1100 x 550	TW207G	2CPX010151R9999	TW207GB	2CPX010377R9999
		3	252	1100 x 800	TW307G	2CPX010152R9999	TW307GB	2CPX010378R9999
		4	336	1100 x 1050	TW407G	2CPX010153R9999	TW407GB	2CPX010379R9999
		5	420	1100 x 1300	TW507G	2CPX010154R9999	TW507GB	2CPX010380R9999
8	4	1	96	1250 x 300	TW108G	2CPX010155R9999	TW108GB	2CPX010381R9999
		2	192	1250 x 550	TW208G	2CPX010156R9999	TW208GB	2CPX010382R9999
		3	288	1250 x 800	TW308G	2CPX010157R9999	TW308GB	2CPX010383R9999
		4	384	1250 x 1050	TW408G	2CPX010158R9999	TW408GB	2CPX010384R9999
		5	480	1250 x 1300	TW508G	2CPX010159R9999	TW508GB	2CPX010385R9999
9	5	1	108	1400 x 300	TW109G	2CPX010160R9999	TW109GB	2CPX010386R9999
		2	216	1400 x 550	TW209G	2CPX010161R9999	TW209GB	2CPX010387R9999
		3	324	1400 x 800	TW309G	2CPX010162R9999	TW309GB	2CPX010388R9999
		4	432	1400 x 1050	TW409G	2CPX010163R9999	TW409GB	2CPX010389R9999
		5	540	1400 x 1300	TW509G	2CPX010164R9999	TW509GB	2CPX010390R9999

*1 When expanding as an installation distributor with meter and distributor fields, combination sets or CombiLine modules

*2 External dimensions are without flange embossing.

TwinLine N 55 wall cabinets and floor-standing cabinets

TwinLine-W wall cabinets, cabinet depth 350 mm ⏚



TW306S

Included in the scope of delivery

- External mounting brackets
- Touch protection
- Mounting rails with left and right mounting frame brackets, as well as an additional mounting rail for cabinets with field width 4 and above
- Supports for expansion with meter and distributor fields, combination sets or CombiLine modules on EDF mounting frame
- Support for expansion with CombiLine modules on WR mounting frame, by removing the EDF Adapter

Order accessories separately

- Flanges

Height		Width		External dimensions*2	Wall cabinets with door IP55		Wall cabinets without door IP30*1	
RE	BH	FB	PLE	H x W in mm	Type	Order code	Type	Order code
4	0	1	48	650 x 300	TW104S	2CPX010171R9999	TW104SB	2CPX010397R9999
		2	96	650 x 550	TW204S	2CPX010172R9999	TW204SB	2CPX010398R9999
		3	144	650 x 800	TW304S	2CPX010173R9999	TW304SB	2CPX010399R9999
		4	192	650 x 1050	TW404S	2CPX010174R9999	TW404SB	2CPX010400R9999
		5	240	650 x 1300	TW504S	2CPX010175R9999	TW504SB	2CPX010401R9999
5	1	1	60	800 x 300	TW105S	2CPX010207R9999	TW105SB	2CPX010402R9999
		2	120	800 x 550	TW205S	2CPX010208R9999	TW205SB	2CPX010403R9999
		3	180	800 x 800	TW305S	2CPX010209R9999	TW305SB	2CPX010404R9999
		4	240	800 x 1050	TW405S	2CPX010210R9999	TW405SB	2CPX010405R9999
		5	300	800 x 1300	TW505S	2CPX010211R9999	TW505SB	2CPX010406R9999
6	2	1	72	950 x 300	TW106S	2CPX010176R9999	TW106SB	2CPX010407R9999
		2	144	950 x 550	TW206S	2CPX010177R9999	TW206SB	2CPX010408R9999
		3	216	950 x 800	TW306S	2CPX010178R9999	TW306SB	2CPX010409R9999
		4	288	950 x 1050	TW406S	2CPX010179R9999	TW406SB	2CPX010410R9999
		5	360	950 x 1300	TW506S	2CPX010180R9999	TW506SB	2CPX010411R9999
7	3	1	84	1100 x 300	TW107S	2CPX010181R9999	TW107SB	2CPX010412R9999
		2	168	1100 x 550	TW207S	2CPX010182R9999	TW207SB	2CPX010413R9999
		3	252	1100 x 800	TW307S	2CPX010183R9999	TW307SB	2CPX010414R9999
		4	336	1100 x 1050	TW407S	2CPX010184R9999	TW407SB	2CPX010415R9999
		5	420	1100 x 1300	TW507S	2CPX010185R9999	TW507SB	2CPX010416R9999
8	4	1	96	1250 x 300	TW108S	2CPX010186R9999	TW108SB	2CPX010417R9999
		2	192	1250 x 550	TW208S	2CPX010187R9999	TW208SB	2CPX010418R9999
		3	288	1250 x 800	TW308S	2CPX010188R9999	TW308SB	2CPX010419R9999
		4	384	1250 x 1050	TW408S	2CPX010189R9999	TW408SB	2CPX010420R9999
		5	480	1250 x 1300	TW508S	2CPX010190R9999	TW508SB	2CPX010421R9999
9	5	1	108	1400 x 300	TW109S	2CPX010191R9999	TW109SB	2CPX010422R9999
		2	216	1400 x 550	TW209S	2CPX010192R9999	TW209SB	2CPX010423R9999
		3	324	1400 x 800	TW309S	2CPX010193R9999	TW309SB	2CPX010424R9999
		4	432	1400 x 1050	TW409S	2CPX010194R9999	TW409SB	2CPX010425R9999
		5	540	1400 x 1300	TW509S	2CPX010195R9999	TW509SB	2CPX010426R9999

*1 When expanding as an installation distributor with meter and distributor fields, combination sets or CombiLine modules

*2 External dimensions are without flange embossing.

TwinLine N 55 wall cabinets and floor-standing cabinets

Floor-standing cabinets



TwinLine N 55 wall cabinets and floor-standing cabinets

Floor-standing cabinets/technical specifications and product features

Specifications for TwinLine-G, -L and -W	
Standards/regulations	DIN EN 61439-1/-2/-3, DIN VDE 0660-600-1/-2/-3*[1]
Protection class	I, earthed
	II, insulated
Degree of protection	with IP55 door
	Without IP30 door, when expanded as an installation distributor with meter and distributor fields, combination sets or CombiLine modules
Mechnical impact strength	IK08 for the cabinet housing with steel-sheet door
	IK07 in the area of flange knock-outs and for transparent doors
Ambient conditions	Indoor installation
	Ambient temperature max. + 40 °C
	Ambient temperature min. - 5 °C
	Operating temperature max. + 55 °C
	Storage temperature max. + 55 °C
	Storage temperature min. - 40 °C

Product features for TwinLine-G, -L and -W	
Housing and doors	Made of sheet steel, color RAL 7035, powder-coated
	A flange opening is cut out for each field width, knock-outs are on the side and bottom
	Door opening angle 180 degrees
	Double door cabinets with field width 4 and over
	Doors with rod lock
	Standard closure, double-bit 3 mm
Assembly options*	Prepared for expansion with CombiLine modules on WRmounting frame and mounting plates
	Prepared for expansion with meter and distributor fields, combination sets or CombiLine modules on EDF mounting frame, EDF adapter and middle support rails must be ordered separately as accessories
Forms of delivery	Housing with door
	Housing without door
	External mounting lugs are included in the scope of delivery
	Mounting strips with left and right mounting frame brackets, as well as an additional mounting strip for field width 4 and above cabinets, are included in the scope of delivery
	Touch protection for the insulated cabinet is included in the scope of delivery
	Touch protection for the earthed cabinet must be ordered separately as an accessory
Accessories	For housings without doors, the door can be ordered separately , as needed
	Flanges must be ordered separately
	Base must be ordered separately
	Touch protection for the earthed cabinet must be ordered separately
	EDF adapter must be ordered separately if required*
	Middle support rails must be ordered separately if required*

*[1] The permissible heating for switchgear combinations (SK) up to 630 A rated current can be verified using the procedure according to 10.10.4.2; for the required values of the power dissipation capacity, please refer to the tables starting on page ; above 630 A rated current, the procedure according to 10.10.4.3 (DIN EN 61439-1 supplementary sheet 2, DIN VDE 0660-600-1 supplementary sheet 2) must be applied

* For detailed description of the assembly options of floor-standing cabinets se next pages in this chapter.

TwinLine N 55 wall cabinets and floor-standing cabinets

Floor-standing cabinets/assembly options ⏚



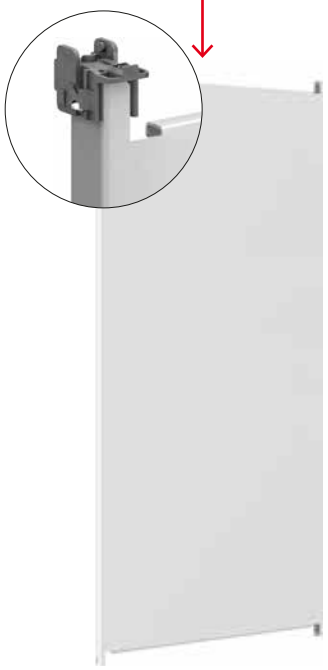
TW312G

Additionally order touch protection

Additionally order EDF adapter

Additionally order middle support rail

Additionally order touch protection



Mounting plate installation*
Expansion for control technology with mounting plate



EDF mounting frame installation
Expansion as an installation distributor with meter and distributor fields, combination sets or CombiLine modules on EDFmounting frame



Installation of WRmounting frame*
Expansion as an installation distributor with CombiLine modules on WR mounting frame

* The combination of mounting plate and WR mounting frame next to each other is possible.

TwinLine N 55 wall cabinets and floor-standing cabinets

Floor-standing cabinets/assembly options



TW312S

Touch protection included in the scope of delivery

Additionally order EDF adapter

Additionally order middle support rail



EDFmounting frame installation
Expansion as an installation distributor with meter and distributor fields, combination sets or CombiLine modules on EDF mounting frame

Touch protection included in the scope of delivery



Installation of WRmounting frame
Expansion as an installation distributor with CombiLine modules on WRmounting frame

TwinLine N 55 wall cabinets and floor-standing cabinets

Floor-standing cabinets/cabinet depth 225/275/350 mm ⏚



TG312G

Included in the scope of delivery

- External mounting brackets
- Mounting rails with left and right mounting frame brackets, as well as an additional mounting rail for cabinets with field width 4 and above
- Supports for expansion with CombiLine modules on WR mounting frame and mounting plates

Order accessories separately

- Flanges
- Base
- Touch protection for expansion with CombiLine modules
- EDF adapters, middle support rails and touch protection for expansion with meter and distributor fields, combination sets or CombiLine modules on EDF mounting frame

Height		Width		External dimensions*2	Standing cabinets with door IP55		Standing cabinets without door IP30*1	
RE	BH	FB	PLE	H x W in mm	Type	Order code	Type	Order code
TwinLine-G, cabinet depth 225 mm ⏚								
12	8	1	144	1850 x 300	TG112G	2CPX010030R9999	TG112GB	2CPX010251R9999
		2	288	1850 x 550	TG212G	2CPX010031R9999	TG212GB	2CPX010252R9999
		3	432	1850 x 800	TG312G	2CPX010032R9999	TG312GB	2CPX010253R9999
		4	576	1850 x 1050	TG412G	2CPX010033R9999	TG412GB	2CPX010254R9999
		5	720	1850 x 1300	TG512G	2CPX010034R9999	TG512GB	2CPX010255R9999
TwinLine-L, cabinet depth 275 mm ⏚								
12	8	1	144	1850 x 300	TL112G	2CPX010100R9999	TL112GB	2CPX010321R9999
		2	288	1850 x 550	TL212G	2CPX010101R9999	TL212GB	2CPX010322R9999
		3	432	1850 x 800	TL312G	2CPX010102R9999	TL312GB	2CPX010323R9999
		4	576	1850 x 1050	TL412G	2CPX010103R9999	TL412GB	2CPX010324R9999
		5	720	1850 x 1300	TL512G	2CPX010104R9999	TL512GB	2CPX010325R9999
TwinLine-W cabinet depth 350 mm ⏚								
12	8	1	144	1850 x 300	TW112G	2CPX010165R9999	TW112GB	2CPX010391R9999
		2	288	1850 x 550	TW212G	2CPX010166R9999	TW212GB	2CPX010392R9999
		3	432	1850 x 800	TW312G	2CPX010167R9999	TW312GB	2CPX010393R9999
		4	576	1850 x 1050	TW412G	2CPX010168R9999	TW412GB	2CPX010394R9999
		5	720	1850 x 1300	TW512G	2CPX010169R9999	TW512GB	2CPX010395R9999
		6	864	1850 x 1550	TW612G	2CPX010170R9999	TW612GB	2CPX010396R9999

*1 When expanding as an installation distributor with meter and distributor fields, combination sets or CombiLine modules

*2 External dimensions are without flange embossing.

TwinLine N 55 wall cabinets and floor-standing cabinets

Floor-standing cabinets/cabinet depth 225/275/350 mm ⧈



TG312S

Included in the scope of delivery

- External mounting brackets
- Touch protection
- Mounting rails with left and right mounting frame brackets, as well as an additional mounting rail for cabinets with field width 4 and above
- Supports for expansion with CombiLine modules on WRmounting frame

Order accessories separately

- Flanges
- Base
- EDF adapters and middle support rails for expansion with meter and distributor fields, combination sets or CombiLine modules on EDF mounting frame

Height		Width		External dimensions*2	Standing cabinets with door IP55		Standing cabinets without door IP30*1	
RE	BH	FB	PLE	H x W in mm	Type	Order code	Type	Order code
TwinLine-G, cabinet depth 225 mm ⧈								
12	8	1	144	1850 x 300	TG112S	2CPX010065R9999	TG112SB	2CPX010286R9999
		2	288	1850 x 550	TG212S	2CPX010066R9999	TG212SB	2CPX010287R9999
		3	432	1850 x 800	TG312S	2CPX010067R9999	TG312SB	2CPX010288R9999
		4	576	1850 x 1050	TG412S	2CPX010068R9999	TG412SB	2CPX010289R9999
		5	720	1850 x 1300	TG512S	2CPX010069R9999	TG512SB	2CPX010290R9999
TwinLine-L, cabinet depth 275 mm ⧈								
12	8	1	144	1850 x 300	TL112S	2CPX010135R9999	TL112SB	2CPX010356R9999
		2	288	1850 x 550	TL212S	2CPX010136R9999	TL212SB	2CPX010357R9999
		3	432	1850 x 800	TL312S	2CPX010137R9999	TL312SB	2CPX010358R9999
		4	576	1850 x 1050	TL412S	2CPX010138R9999	TL412SB	2CPX010359R9999
		5	720	1850 x 1300	TL512S	2CPX010139R9999	TL512SB	2CPX010360R9999
TwinLine-W cabinet depth 350 mm ⧈								
12	8	1	144	1850 x 300	TW112S	2CPX010196R9999	TW112SB	2CPX010427R9999
		2	288	1850 x 550	TW212S	2CPX010197R9999	TW212SB	2CPX010428R9999
		3	432	1850 x 800	TW312S	2CPX010198R9999	TW312SB	2CPX010429R9999
		4	576	1850 x 1050	TW412S	2CPX010199R9999	TW412SB	2CPX010430R9999
		5	720	1850 x 1300	TW512S	2CPX010200R9999	TW512SB	2CPX010431R9999
		6	864	1850 x 1550	TW612S	2CPX010201R9999	TW612SB	2CPX010432R9999

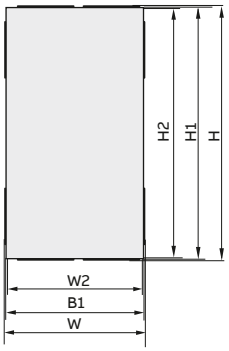
*1 When expanding as an installation distributor with meter and distributor fields, combination sets or CombiLine modules

*2 External dimensions are without flange embossing.

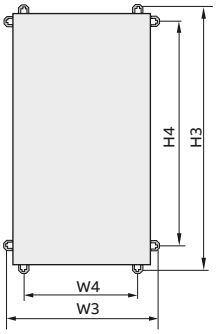
Wall and floor-standing cabinets TwinLine N

Dimensions Twin Line-G, cabinet depth 225 mm, ⏚▣

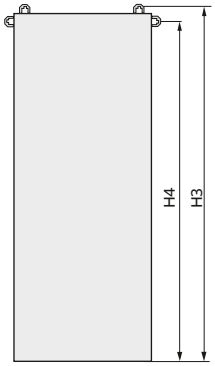
Front view
Wall cabinet and standing cabinet
External dimensions/
internal dimensions



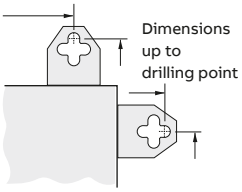
Front view
Wall cabinet
Dimensions wall mounting



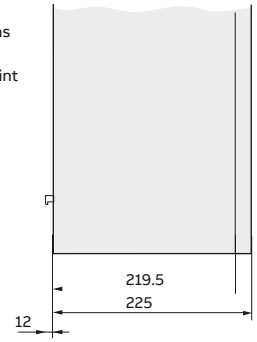
Front view
Standalone cabinet
Dimensions wall mounting



Front view
External mounting
Detail



Side view
With/without door



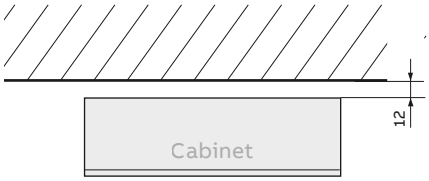
Height		Width		External dimensions		Internal dimensions		External dimensions with flange knock-out		Dimensions wall mounting			
RE	BH	FB	Type	H1	B1	H2	W2	H	W	H3	W3	H4	W4
Twin Line-G cabinets ⏚▣													
4	0	1	TG104	650	300	602	252	654	304	693.5	328	542	192
		2	TG204	650	550	602	502	654	554	693.5	578	542	442
		3	TG304	650	800	602	752	654	804	693.5	828	542	692
		4	TG404	650	1050	602	1002	654	1054	693.5	1078	542	942
		5	TG504	650	1300	602	1252	654	1304	693.5	1328	542	1192
5	1	1	TG105	800	300	752	252	804	304	843.5	328	692	192
		2	TG205	800	550	752	502	804	554	843.5	578	692	442
		3	TG305	800	800	752	752	804	804	843.5	828	692	692
		4	TG405	800	1050	752	1002	804	1054	843.5	1078	692	942
		5	TG505	800	1300	752	1252	804	1304	843.5	1328	692	1192
6	2	1	TG106	950	300	902	252	954	304	993.5	328	842	192
		2	TG206	950	550	902	502	954	554	993.5	578	842	442
		3	TG306	950	800	902	752	954	804	993.5	828	842	692
		4	TG406	950	1050	902	1002	954	1054	993.5	1078	842	942
		5	TG506	950	1300	902	1252	954	1304	993.5	1328	842	1192
7	3	1	TG107	1100	300	1052	252	1104	304	1143.5	328	992	192
		2	TG207	1100	550	1052	502	1104	554	1143.5	578	992	442
		3	TG307	1100	800	1052	752	1104	804	1143.5	828	992	692
		4	TG407	1100	1050	1052	1002	1104	1054	1143.5	1078	992	942
		5	TG507	1100	1300	1052	1252	1104	1304	1143.5	1328	992	1192
8	4	1	TG108	1250	300	1202	252	1254	304	1293.5	328	1142	192
		2	TG208	1250	550	1202	502	1254	554	1293.5	578	1142	442
		3	TG308	1250	800	1202	752	1254	804	1293.5	828	1142	692
		4	TG408	1250	1050	1202	1002	1254	1054	1293.5	1078	1142	942
		5	TG508	1250	1300	1202	1252	1254	1304	1293.5	1328	1142	1192
9	5	1	TG109	1400	300	1352	252	1404	304	1443.5	328	1292	192
		2	TG209	1400	550	1352	502	1404	554	1443.5	578	1292	442
		3	TG309	1400	800	1352	752	1404	804	1443.5	828	1292	692
		4	TG409	1400	1050	1352	1002	1404	1054	1443.5	1078	1292	942
		5	TG509	1400	1300	1352	1252	1404	1304	1443.5	1328	1292	1192
Twin Line-G standing cabinets ⏚▣													
12	8	1	TG112	1850	300	1802	252	1854	304	1872	328	1796	192
		2	TG212	1850	550	1802	502	1854	554	1872	578	1796	442
		3	TG312	1850	800	1802	752	1854	804	1872	828	1796	692
		4	TG412	1850	1050	1802	1002	1854	1054	1872	1078	1796	942
		5	TG512	1850	1300	1802	1252	1854	1304	1872	1328	1796	1192

> Dimensions in mm

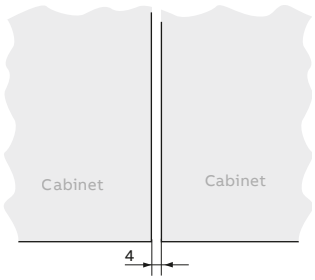
Wall and floor-standing cabinets TwinLine N

Weights power loss TwinLine-G, cabinet depth 225 mm, ⏚⧈

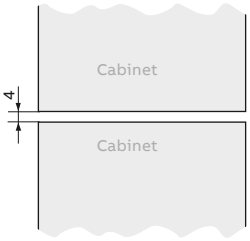
Type of installation
Cabinet on the wall



Type of installation
Cabinet combination
side by side



Type of installation
Cabinet combination
one on top of the other



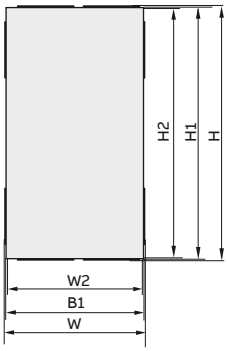
Height		Width		⏚/⧈ Power dissipation in watts* at overtemperature △t 20K	⏚ Cabinet weight in kg		⧈ Cabinet weight in kg		Max. installation weight
RE	BH	FB	Type		With door	Without door	With door	Without door	in kg
Twin Line-G cabinets ⏚⧈									
4	0	1	TG104	35.80	11.40	7.43	12.89	8.92	15.00
		2	TG204	57.00	16.17	9.95	17.80	11.59	30.00
		3	TG304	61.00	21.02	12.47	22.80	14.25	45.00
		4	TG404	82.30	28.03	15.54	29.95	17.46	60.00
		5	TG504	107.80	32.86	18.07	34.92	20.13	75.00
5	1	1	TG105	42.30	13.17	8.40	14.86	10.10	20.50
		2	TG205	66.10	18.72	11.22	20.60	13.11	41.00
		3	TG305	71.00	24.29	14.03	26.37	16.11	61.50
		4	TG405	99.00	32.45	17.40	34.71	19.67	82.50
		5	TG505	131.20	38.03	20.22	40.49	22.68	103.00
6	2	1	TG106	48.80	14.89	9.37	16.78	11.26	26.00
		2	TG206	52.60	21.23	12.43	23.36	14.61	52.50
		3	TG306	80.90	27.55	15.59	29.92	17.37	78.50
		4	TG406	115.10	36.84	19.25	39.46	21.86	105.00
		5	TG506	153.70	43.18	22.36	46.03	25.09	131.00
7	3	1	TG107	55.40	17.14	10.72	19.23	12.81	31.50
		2	TG207	61.40	24.36	14.25	26.74	16.64	63.50
		3	TG307	93.50	31.56	17.79	34.23	20.46	95.50
		4	TG407	133.70	42.23	21.87	45.19	24.83	127.50
		5	TG507	174.30	49.44	25.41	52.69	28.66	159.00
8	4	1	TG108	61.80	18.90	11.68	21.20	13.98	37.50
		2	TG208	69.30	26.87	15.51	29.50	18.15	75.00
		3	TG308	102.90	34.82	19.34	37.80	22.31	112.50
		4	TG408	150.30	46.64	23.72	50.01	27.10	150.00
		5	TG508	193.30	54.59	27.55	58.31	31.27	187.50
9	5	1	TG109	68.20	20.66	12.65	23.15	15.14	43.00
		2	TG209	79.10	29.38	16.77	32.23	19.65	86.00
		3	TG309	119.30	38.08	20.89	41.35	24.16	129.00
		4	TG409	157.50	51.04	25.57	54.77	29.31	172.50
		5	TG509	208.80	59.74	29.69	63.87	33.82	215.50
TwinLine-G standing cabinets ⏚⧈									
12	8	1	TG112	64.00	26.17	15.78	28.89	18.50	60.00
		2	TG212	113.00	40.22	23.81	43.73	27.31	120.00
		3	TG312	162.60	51.87	29.54	56.17	33.84	180.00
		4	TG412	202.10	69.40	36.27	74.59	41.46	240.00
		5	TG512	230.80	80.19	41.11	86.17	47.09	300.00

* General remarks on the determination of the power dissipation: Values in accordance with DIN EN 61439-1 section 10.10.4.2.2; ambient temperature 35 °C, internal temperature 55 ° C, it must be guaranteed that the permissible operating medium temperature is not exceeded; height of the installation location ≤ 2000 m above sea level; shape of inner divider = 1; side walls not covered

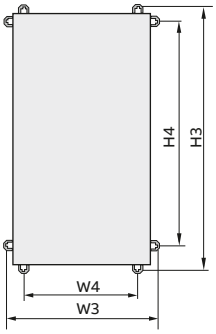
Wall and floor-standing cabinets TwinLine N

Dimensions TwinLine-L, cabinet depth 275 mm, ⏚▣

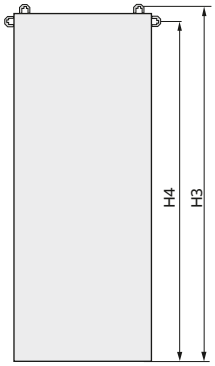
Front view
Wall cabinet and standing cabinet
External dimensions/
internal dimensions



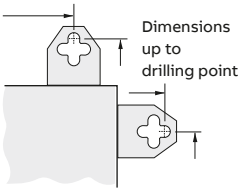
Front view
Wall cabinet
Dimensions wall mounting



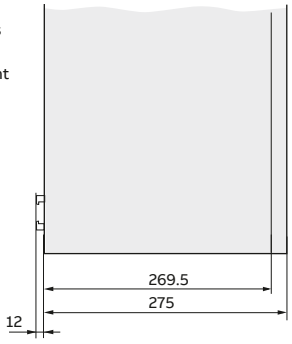
Front view
Standalone cabinet
Dimensions wall mounting



Front view
External mounting
Detail



Side view
With/without door



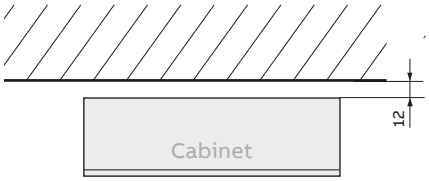
Height		Width		External dimensions		Internal dimensions		External dimensions with flange knock-out		Dimensions wall mounting			
RE	BH	FB	Type	H1	B1	H2	W2	H	W	H3	W3	H4	W4
TwinLine-L wall cabinets ⏚▣													
4	0	1	TL104	650	300	602	252	654	304	693.5	328	542	192
		2	TL204	650	550	602	502	654	554	693.5	578	542	442
		3	TL304	650	800	602	752	654	804	693.5	828	542	692
		4	TL404	650	1050	602	1002	654	1054	693.5	1078	542	942
		5	TL504	650	1300	602	1252	654	1304	693.5	1328	542	1192
5	1	1	TL105	800	300	752	252	804	304	843.5	328	692	192
		2	TL205	800	550	752	502	804	554	843.5	578	692	442
		3	TL305	800	800	752	752	804	804	843.5	828	692	692
		4	TL405	800	1050	752	1002	804	1054	843.5	1078	692	942
		5	TL505	800	1300	752	1252	804	1304	843.5	1328	692	1192
6	2	1	TL106	950	300	902	252	954	304	993.5	328	842	192
		2	TL206	950	550	902	502	954	554	993.5	578	842	442
		3	TL306	950	800	902	752	954	804	993.5	828	842	692
		4	TL406	950	1050	902	1002	954	1054	993.5	1078	842	942
		5	TL506	950	1300	902	1252	954	1304	993.5	1328	842	1192
7	3	1	TL107	1100	300	1052	252	1104	304	1143.5	328	992	192
		2	TL207	1100	550	1052	502	1104	554	1143.5	578	992	442
		3	TL307	1100	800	1052	752	1104	804	1143.5	828	992	692
		4	TL407	1100	1050	1052	1002	1104	1054	1143.5	1078	992	942
		5	TL507	1100	1300	1052	1252	1104	1304	1143.5	1328	992	1192
8	4	1	TL108	1250	300	1202	252	1254	304	1293.5	328	1142	192
		2	TL208	1250	550	1202	502	1254	554	1293.5	578	1142	442
		3	TL308	1250	800	1202	752	1254	804	1293.5	828	1142	692
		4	TL408	1250	1050	1202	1002	1254	1054	1293.5	1078	1142	942
		5	TL508	1250	1300	1202	1252	1254	1304	1293.5	1328	1142	1192
9	5	1	TL109	1400	300	1352	252	1404	304	1443.5	328	1292	192
		2	TL209	1400	550	1352	502	1404	554	1443.5	578	1292	442
		3	TL309	1400	800	1352	752	1404	804	1443.5	828	1292	692
		4	TL409	1400	1050	1352	1002	1404	1054	1443.5	1078	1292	942
		5	TL509	1400	1300	1352	1252	1404	1304	1443.5	1328	1292	1192
TwinLine-L standing cabinets ⏚▣													
12	8	1	TL112	1850	300	1802	252	1854	304	1872	328	1796	192
		2	TL212	1850	550	1802	502	1854	554	1872	578	1796	442
		3	TL312	1850	800	1802	752	1854	804	1872	828	1796	692
		4	TL412	1850	1050	1802	1002	1854	1054	1872	1078	1796	942
		5	TL512	1850	1300	1802	1252	1854	1304	1872	1328	1796	1192

> Dimensions in mm

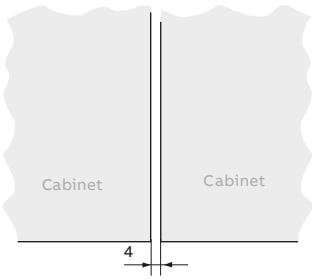
Wall and floor-standing cabinets TwinLine N

Weights and power dissipation TwinLine-L, cabinet depth 275 mm, ⏚▣

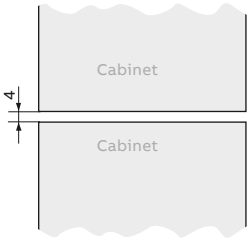
Type of installation
Cabinet on the wall



Type of installation
Cabinet combination
side by side



Type of installation
Cabinet combination
one on top of the other



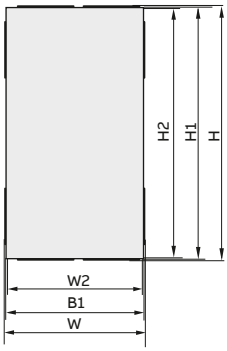
Height		Width		⏚/▣ Power dissipation in watts* at overtemperature △t 20K	⏚ Cabinet weight in kg		▣ Cabinet weight in kg		Max. installation weight
RE	BH	FB	Type		With door	Without door	With door	Without door	in kg
TwinLine-L wall cabinets ⏚▣									
4	0	1	TL104	38.80	12.25	8.28	13.80	9.83	15.00
		2	TL204	60.80	17.23	10.97	18.94	12.72	30.00
		3	TL304	67.10	22.30	13.75	24.16	15.61	45.00
		4	TL404	89.70	29.54	17.06	31.54	19.08	60.00
		5	TL504	116.80	34.59	19.79	36.76	21.97	75.00
5	1	1	TL105	45.80	14.13	9.37	15.89	11.13	20.50
		2	TL205	70.20	19.90	12.40	21.86	14.36	41.00
		3	TL305	78.00	25.68	15.43	27.86	17.60	61.50
		4	TL405	108.90	34.08	19.03	36.45	21.38	82.50
		5	TL505	145.10	39.87	22.06	42.46	24.64	103.00
6	2	1	TL106	52.80	15.97	10.45	17.94	12.35	26.00
		2	TL206	59.90	22.53	13.78	24.75	16.00	52.50
		3	TL306	89.80	29.06	17.10	31.54	19.58	78.50
		4	TL406	128.10	38.59	21.00	41.32	23.73	105.00
		5	TL506	168.00	45.14	24.32	48.09	27.28	131.00
7	3	1	TL107	59.80	18.34	11.89	20.51	14.09	31.50
		2	TL207	65.20	25.77	15.67	28.25	18.15	63.50
		3	TL307	102.80	33.19	19.41	35.97	22.20	95.50
		4	TL407	145.70	44.10	23.74	47.19	27.14	127.50
		5	TL507	189.20	51.51	27.48	54.91	30.88	159.00
8	4	1	TL108	66.70	20.22	13.00	22.61	15.39	37.50
		2	TL208	74.40	28.40	17.04	31.14	19.78	75.00
		3	TL308	117.80	36.57	21.09	39.66	24.18	112.50
		4	TL408	163.70	48.62	25.70	52.14	29.22	150.00
		5	TL508	207.70	56.79	29.75	60.65	33.61	187.50
9	5	1	TL109	52.20	22.39	14.09	24.69	16.68	43.00
		2	TL209	86.00	31.03	18.42	34.03	21.42	86.00
		3	TL309	126.00	39.95	22.76	43.35	26.16	129.00
		4	TL409	179.10	53.14	27.68	57.02	31.55	172.50
		5	TL509	222.10	62.05	32.01	66.34	36.29	215.50
TwinLine-L standing cabinets ⏚▣									
12	8	1	TL112	69.60	27.96	17.57	30.84	20.45	60.00
		2	TL212	120.90	42.23	25.81	45.91	29.49	120.00
		3	TL312	171.90	54.09	31.76	58.58	36.24	180.00
		4	TL412	207.00	71.86	38.72	77.25	44.12	240.00
		5	TL512	250.30	83.46	44.37	89.66	50.57	300.00

* General remarks on the determination of the power dissipation: Values in accordance with DIN EN 61439-1 section 10.10.4.2.2; ambient temperature 35 °C, internal temperature 55 °C, it must be guaranteed that the permissible operating medium temperature is not exceeded; height of the installation location ≤ 2000 m above sea level; shape of inner divider = 1; side walls not covered

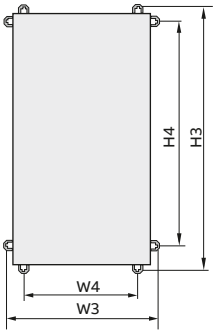
Wall and floor-standing cabinets TwinLine N

Dimensions TwinLine-W, cabinet depth 350 mm, ⏚▣

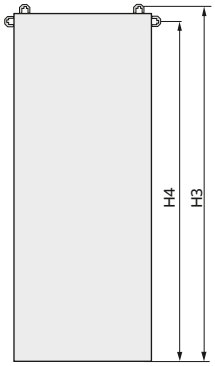
Front view
Wall cabinet and standing cabinet
External dimensions/
internal dimensions



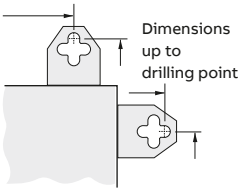
Front view
Wall cabinet
Dimensions wall mounting



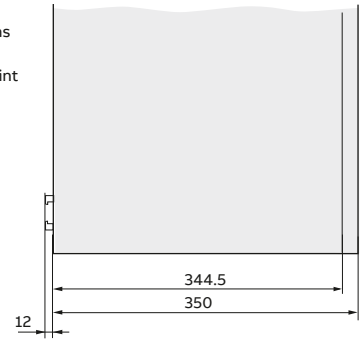
Front view
Standalone cabinet
Dimensions wall mounting



Front view
External mounting
Detail



Side view
With/without door



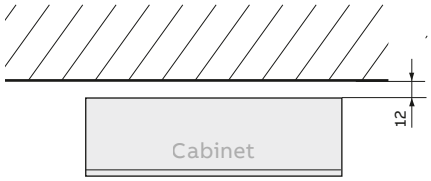
Height		Width		External dimensions		Internal dimensions		External dimensions with flange knock-out		Dimensions wall mounting			
RE	BH	FB	Type	H1	B1	H2	W2	H	W	H3	W3	H4	W4
TwinLine-W wall cabinets ⏚▣													
4	0	1	TW104	650	300	602	252	654	304	693.5	328	542	192
		2	TW204	650	550	602	502	654	554	693.5	578	542	442
		3	TW304	650	800	602	752	654	804	693.5	828	542	692
		4	TW404	650	1050	602	1002	654	1054	693.5	1078	542	942
		5	TW504	650	1300	602	1252	654	1304	693.5	1328	542	1192
5	1	1	TW105	800	300	752	252	804	304	843.5	328	692	192
		2	TW205	800	550	752	502	804	554	843.5	578	692	442
		3	TW305	800	800	752	752	804	804	843.5	828	692	692
		4	TW405	800	1050	752	1002	804	1054	843.5	1078	692	942
		5	TW505	800	1300	752	1252	804	1304	843.5	1328	692	1192
6	2	1	TW106	950	300	902	252	954	304	993.5	328	842	192
		2	TW206	950	550	902	502	954	554	993.5	578	842	442
		3	TW306	950	800	902	752	954	804	993.5	828	842	692
		4	TW406	950	1050	902	1002	954	1054	993.5	1078	842	942
		5	TW506	950	1300	902	1252	954	1304	993.5	1328	842	1192
7	3	1	TW107	1100	300	1052	252	1104	304	1143.5	328	992	192
		2	TW207	1100	550	1052	502	1104	554	1143.5	578	992	442
		3	TW307	1100	800	1052	752	1104	804	1143.5	828	992	692
		4	TW407	1100	1050	1052	1002	1104	1054	1143.5	1078	992	942
		5	TW507	1100	1300	1052	1252	1104	1304	1143.5	1328	992	1192
8	4	1	TW108	1250	300	1202	252	1254	304	1293.5	328	1142	192
		2	TW208	1250	550	1202	502	1254	554	1293.5	578	1142	442
		3	TW308	1250	800	1202	752	1254	804	1293.5	828	1142	692
		4	TW408	1250	1050	1202	1002	1254	1054	1293.5	1078	1142	942
		5	TW508	1250	1300	1202	1252	1254	1304	1293.5	1328	1142	1192
9	5	1	TW109	1400	300	1352	252	1404	304	1443.5	328	1292	192
		2	TW209	1400	550	1352	502	1404	554	1443.5	578	1292	442
		3	TW309	1400	800	1352	752	1404	804	1443.5	828	1292	692
		4	TW409	1400	1050	1352	1002	1404	1054	1443.5	1078	1292	942
		5	TW509	1400	1300	1352	1252	1404	1304	1443.5	1328	1292	1192
TwinLine-W standing cabinets ⏚▣													
12	8	1	TW112	1850	300	1802	252	1854	304	1872	328	1796	192
		2	TW212	1850	550	1802	502	1854	554	1872	578	1796	442
		3	TW312	1850	800	1802	752	1854	804	1872	828	1796	692
		4	TW412	1850	1050	1802	1002	1854	1054	1872	1078	1796	942
		5	TW512	1850	1300	1802	1252	1854	1304	1872	1328	1796	1192
		6	TW612	1850	1550	1802	1502	1854	1554	1872	1578	1796	1442

> Dimensions in mm

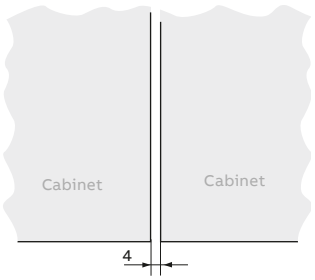
Wall and floor-standing cabinets TwinLine N

Weights and power dissipation TwinLine-W, cabinet depth 350 mm, ⏚▣

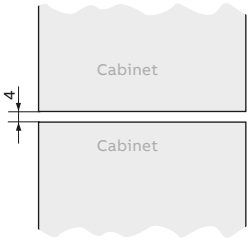
Type of installation
Cabinet on the wall



Type of installation
Cabinet combination
side by side



Type of installation
Cabinet combination
one on top of the other

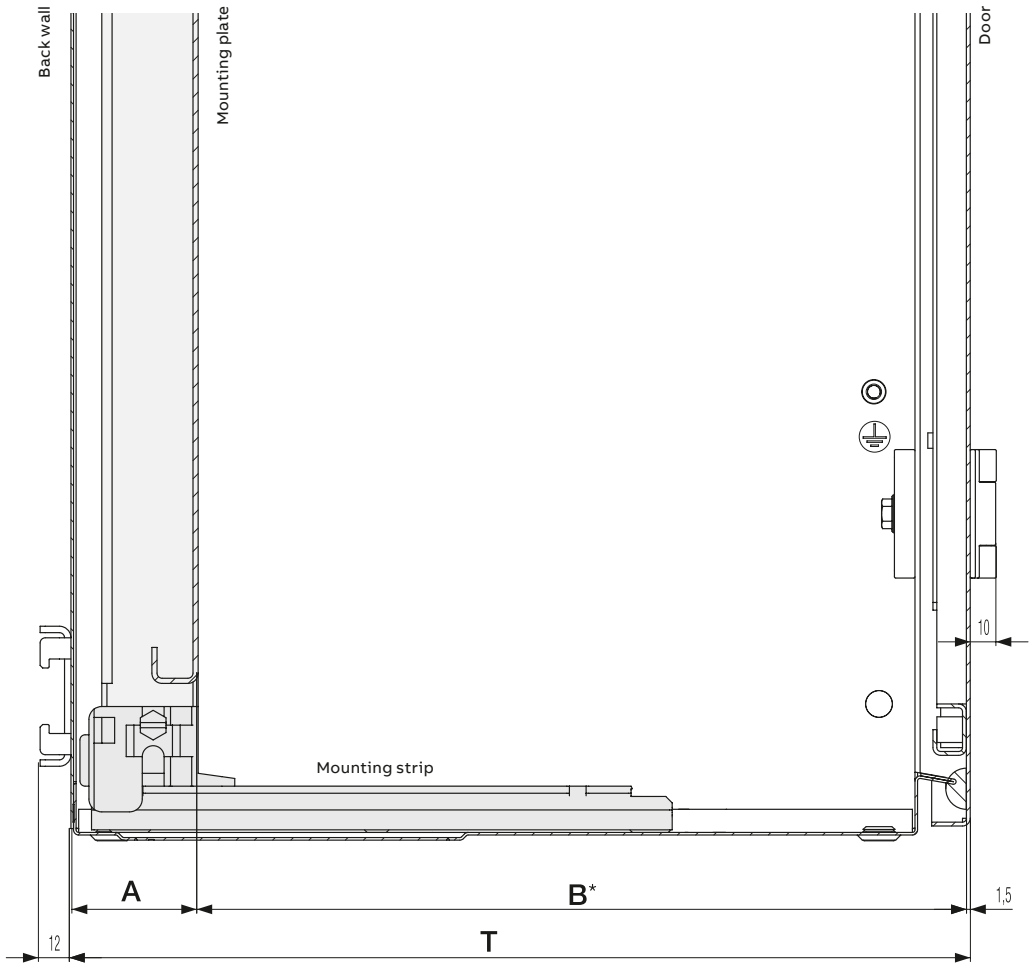


Height		Width		⏚/▣ Power dissipation in watts* at overtemperature △t 20K	⏚ Cabinet weight in kg		▣ Cabinet weight in kg		Max. installation weight
RE	BH	FB	Type		With door	Without door	With door	Without door	in kg
TwinLine-W wall cabinets ⏚▣									
4	0	1	TW104	43.00	13.50	9.47	15.13	11.16	15.00
		2	TW204	65.90	18.79	12.58	20.60	14.38	30.00
		3	TW304	75.90	24.17	15.62	26.16	17.61	45.00
		4	TW404	100.10	31.76	19.27	33.92	21.44	60.00
		5	TW504	129.30	37.12	22.32	39.46	24.66	75.00
5	1	1	TW105	50.50	15.56	10.80	17.41	12.65	20.50
		2	TW205	59.80	21.64	14.14	23.72	16.21	41.00
		3	TW305	87.70	27.74	17.48	30.04	19.78	61.50
		4	TW405	121.30	36.47	21.42	39.00	23.95	82.50
		5	TW505	158.90	42.58	24.77	45.33	27.52	103.00
6	2	1	TW106	58.20	17.58	12.06	19.65	14.13	26.00
		2	TW206	68.20	24.44	15.69	26.79	18.04	52.50
		3	TW306	102.80	31.29	19.33	33.91	21.95	78.50
		4	TW406	144.80	41.16	23.57	44.06	26.46	105.00
		5	TW506	185.80	48.02	27.20	51.19	30.07	131.00
7	3	1	TW107	65.80	20.12	13.70	22.41	15.99	31.50
		2	TW207	75.70	27.87	17.76	30.48	20.38	63.50
		3	TW307	116.50	35.59	21.82	38.53	24.76	95.50
		4	TW407	163.60	46.84	26.48	50.11	29.75	127.50
		5	TW507	209.30	54.58	30.55	58.16	34.13	159.00
8	4	1	TW108	52.00	22.18	14.96	24.81	17.48	37.50
		2	TW208	82.70	30.67	19.32	33.56	22.20	75.00
		3	TW308	132.60	39.15	23.67	42.42	26.93	112.50
		4	TW408	180.80	51.55	28.63	55.25	32.33	150.00
		5	TW508	227.50	60.03	32.98	64.10	37.06	187.50
9	5	1	TW109	58.60	24.23	16.22	26.96	18.95	43.00
		2	TW209	93.90	33.48	20.87	36.63	24.03	86.00
		3	TW309	146.40	42.71	25.52	46.29	29.10	129.00
		4	TW409	197.10	56.24	30.77	60.32	34.85	172.50
		5	TW509	238.20	65.47	35.42	69.97	39.93	215.50
TwinLine-W standing cabinets ⏚▣									
12	8	1	TW112	78.90	30.62	20.24	33.72	23.33	60.00
		2	TW212	131.70	45.10	28.69	49.02	32.60	120.00
		3	TW312	181.50	57.38	35.05	62.12	39.79	180.00
		4	TW412	226.00	75.29	42.15	80.95	47.82	240.00
		5	TW512	269.40	87.20	48.12	93.70	54.61	300.00
		6	TW612	354.50	99.02	53.98	106.34	61.30	360.00

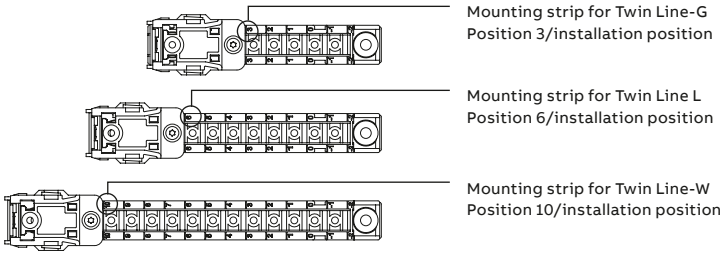
* General remarks on the determination of the power dissipation: Values in accordance with DIN EN 61439-1 section 10.10.4.2.2; ambient temperature 35 °C, internal temperature 55 °C, it must be guaranteed that the permissible operating medium temperature is not exceeded; height of the installation location ≤ 2000 m above sea level; shape of inner divider = 1; side walls not covered

TwinLine N 55 wall cabinets and floor-standing cabinets

Installation using mounting plate



Mounting strip
Top view

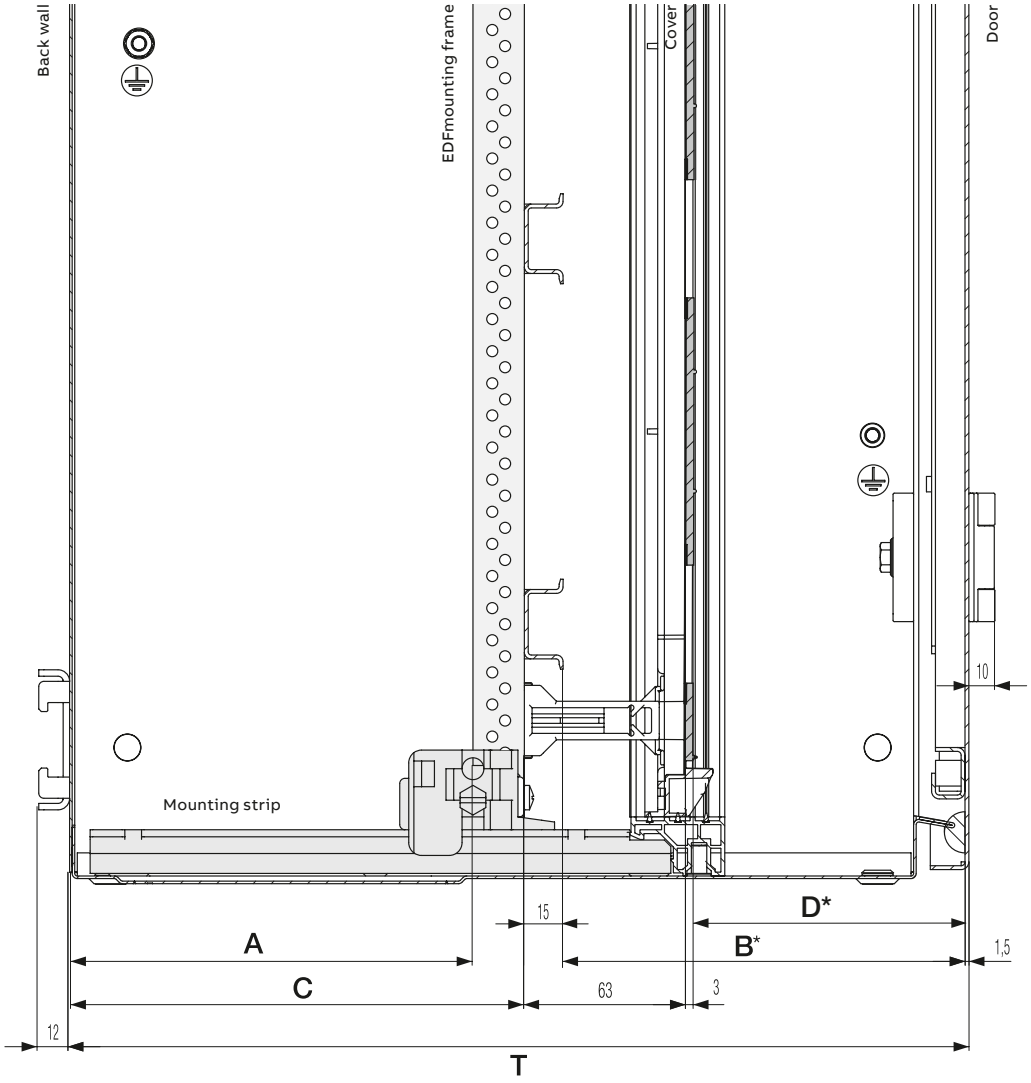


Dimension A at installation position														
Cabinet series	**Depth**	**10**	**9**	**8**	**7**	**6**	**5**	**4**	**3**	**2**	**1**	**0**	**-1**	**-2**
TwinLine G	225.00	-	-	-	-	-	-	-	52.50	65.00	77.50	90.00	102.50	115.00
TwinLine L	275.00	-	-	-	-	50.00	62.50	75.00	87.50	100.00	112.50	125.00	137.50	150.00
TwinLine W	350.00	48.50	61.00	73.50	86.00	98.50	111.00	123.50	136.00	148.50	161.00	173.50	186.00	198.50
Dimension B at installation position *														
TwinLine G	225.00	-	-	-	-	-	-	-	170.00	157.50	145.00	132.50	120.00	107.50
TwinLine L	275.00	-	-	-	-	222.50	210.00	197.50	185.00	172.50	160.00	147.50	135.00	122.50
TwinLine W	350.00	299.00	286.50	274.00	261.50	249.00	236.50	224.00	211.50	199.00	186.50	174.00	161.50	149.00

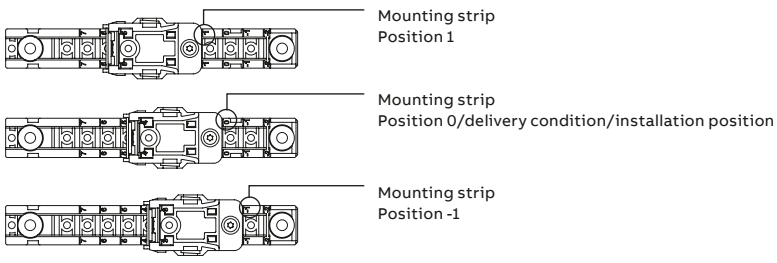
* Related to the area of the installation space (see page 139); outside the installation space, this dimension is reduced by 35 mm due to door installation components
> Dimensions in mm

TwinLine N 55 wall cabinets and floor-standing cabinets

CombiLine N modules on EDF mounting frame



Mounting strip
Top view

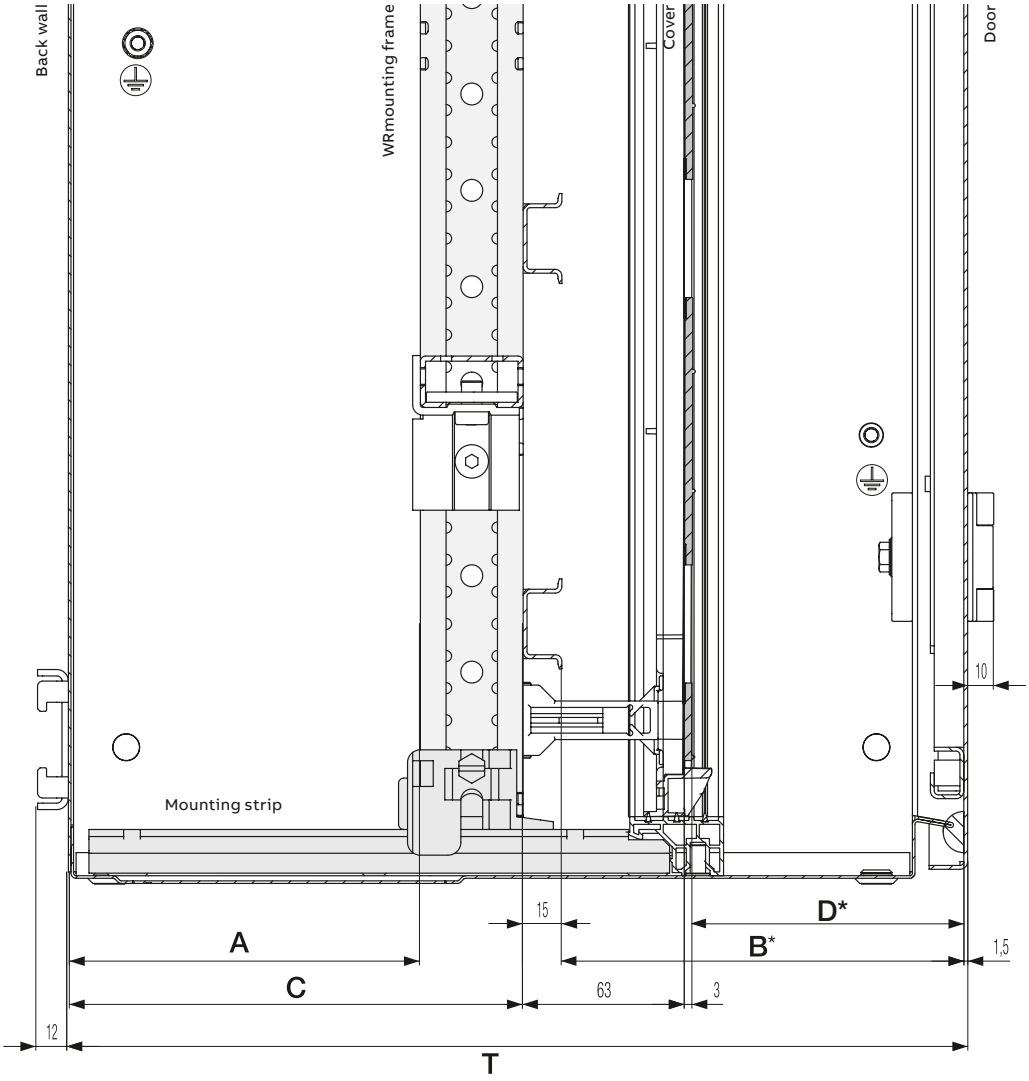


		Dimension A at installation position			Dimension B at installation position*			Dimension C at installation position			Dimension D at installation position*		
Cabinet series	**Depth**	**1**	**0**	**-1**	**1**	**0**	**-1**	**1**	**0**	**-1**	**1**	**0**	**-1**
TwinLine-G	225.00	60.00	72.50	85.00	127.50	115.00	102.50	80.00	92.50	105.00	76.50	64.00	51.50
TwinLine-L	275.00	95.00	107.50	120.00	142.50	130.00	117.50	115.00	127.50	140.00	91.50	79.00	66.50
TwinLine-W	350.00	143.50	156.00	168.50	169.00	156.50	144.00	163.50	176.00	188.50	117.50	105.00	92.50

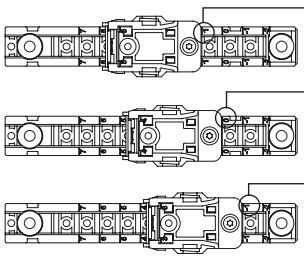
* Related to the area of the installation space (see page 140); outside the installation space, this dimension is reduced by 35 mm due to door installation components
> Dimensions in mm

TwinLine N 55 wall cabinets and floor-standing cabinets

CombiLine N modules on WR mounting frame



Mounting strip
Top view

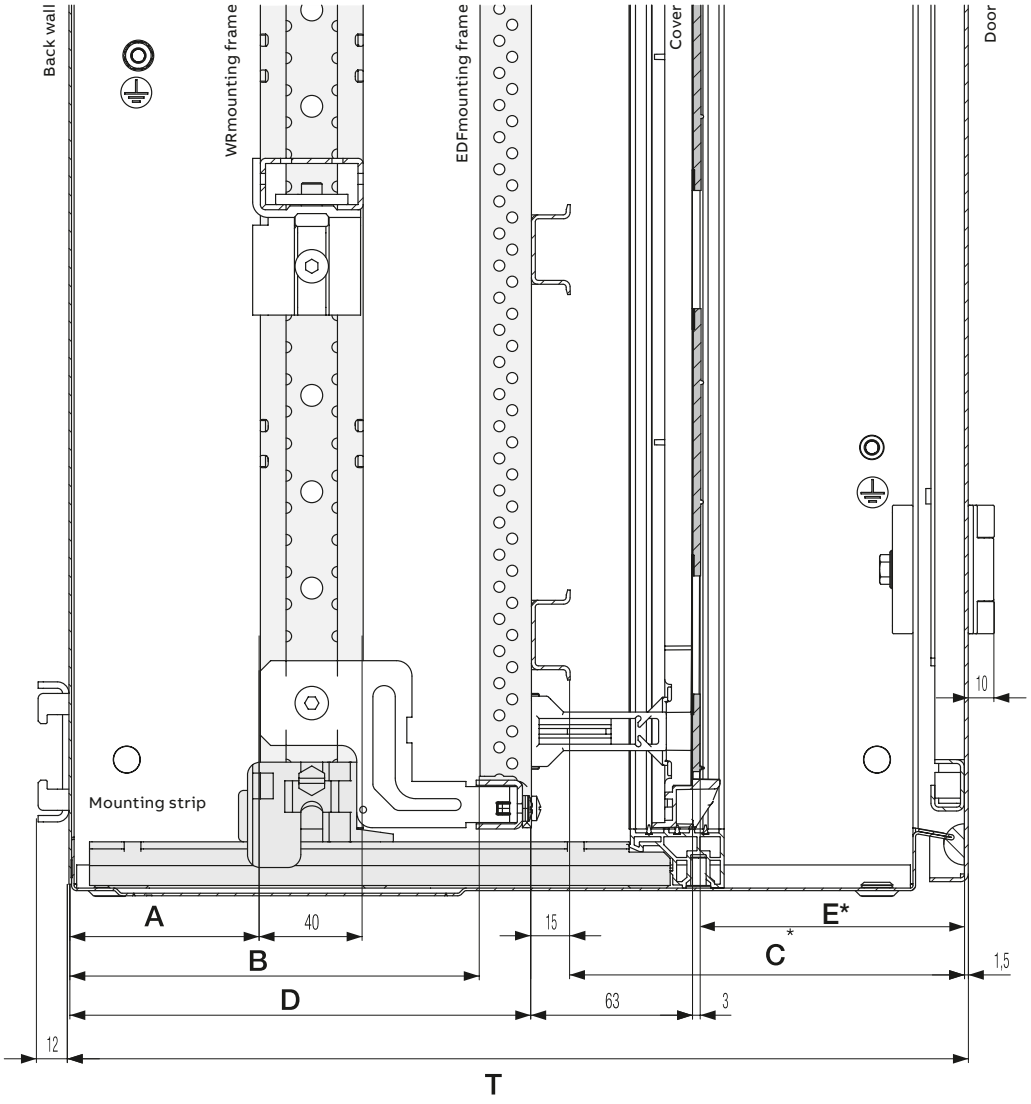


		Dimension A at installation position			Dimension B at installation position*			Dimension C at installation position			Dimension D at installation position*		
Cabinet series	**Depth**	**1**	**0**	**-1**	**1**	**0**	**-1**	**1**	**0**	**-1**	**1**	**0**	**-1**
TwinLine-G	225.00	40.00	52.50	65.00	127.50	115.00	102.50	80.00	92.50	105.00	76.50	64.00	51.50
TwinLine-L	275.00	75.00	87.50	100.00	142.50	130.00	117.50	115.00	127.50	140.00	91.50	79.00	66.50
TwinLine-W	350.00	123.50	136.00	148.50	169.00	156.50	144.00	163.50	176.00	188.50	117.50	105.00	92.50

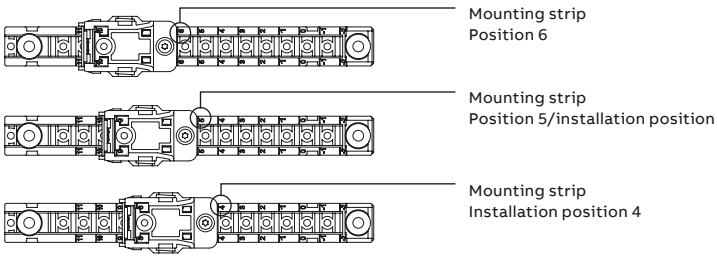
* Related to the area of the installation space (see page 141); outside the installation space, this dimension is reduced by 35 mm due to door installation components
> Dimensions in mm

TwinLine N 55 wall cabinets and floor-standing cabinets

Installation with EDF mounting frame on WR mounting frame



Mounting strip
Top view

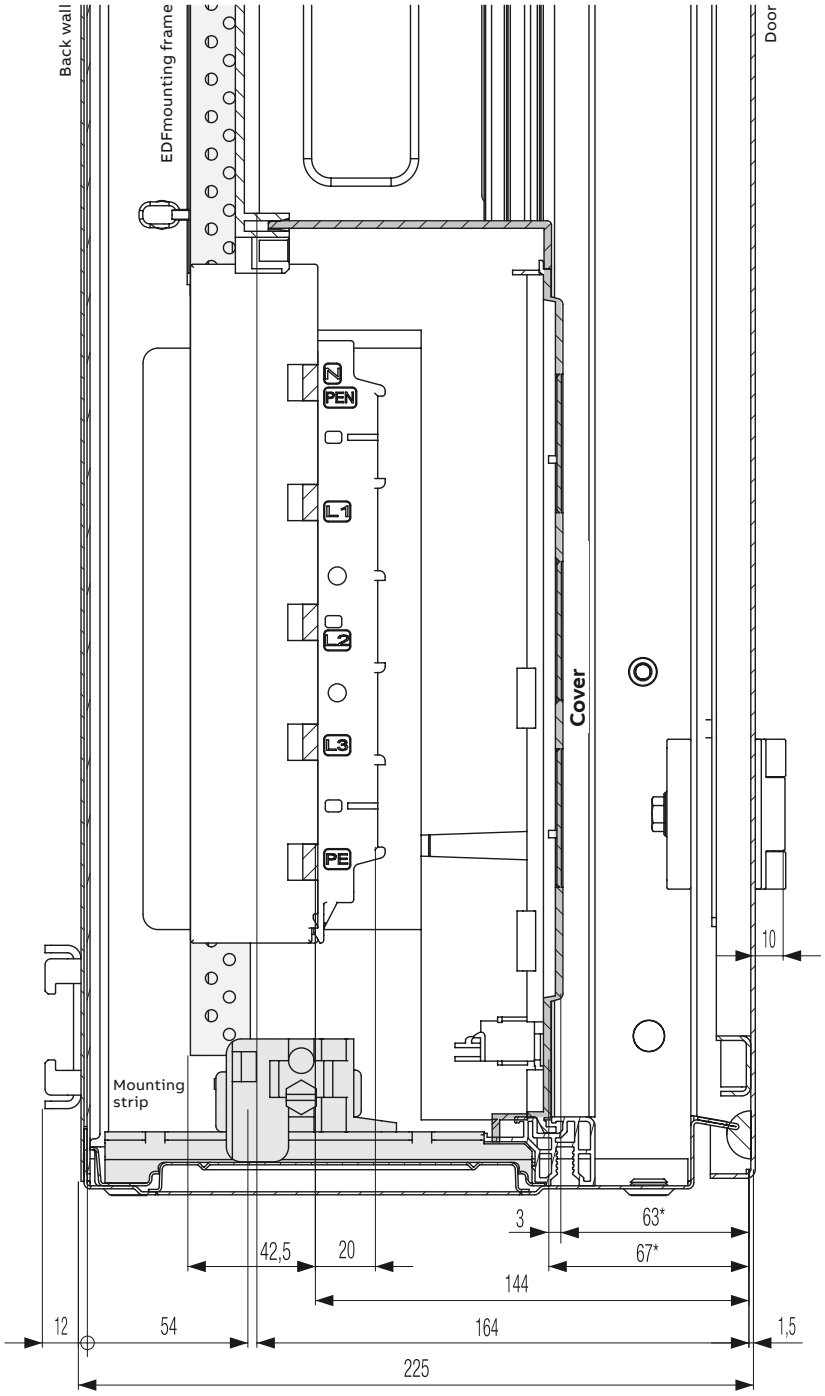


		Dimension A at installation position			Dimension B at installation position			Dimension C at installation position*			Dimension D at installation position			Dimension E at installation position*		
Cabinet series	**Depth**	**6**	**5**	**4**	**6**	**5**	**4**	**6**	**5**	**4**	**6**	**5**	**4**	**6**	**5**	**4**
TwinLine-L	275.00	12.50	25.00	37.50	98.00	110.50	123.00	139.50	127.00	114.50	117.50	130.00	142.50	88.50	76.00	63.50
TwinLine-W	350.00	61.00	73.50	86.00	146.50	159.00	171.50	165.50	153.00	140.50	166.50	179.00	191.50	114.50	102.00	89.50

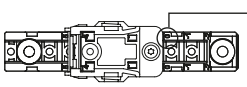
* Related to the area of the installation space (see page 142); outside the installation space, this dimension is reduced by 35 mm due to door installation components
> Dimensions in mm

TwinLine N 55 wall cabinets and floor-standing cabinets

Installation with meter field for TwinLine-G ⧈



Mounting strip
Top view



Mounting strip
Position 0/installation position

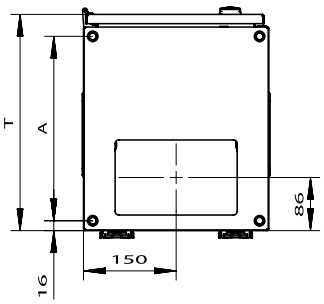
* Related to the area of the installation space (see page 143); outside the installation space, this dimension is reduced by 35 mm due to door installation components

> Dimensions in mm

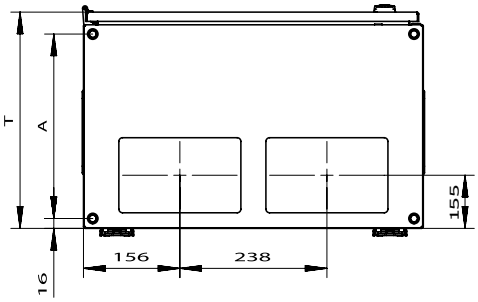
TwinLine N 55 wall cabinets and floor-standing cabinets

Top view of flange knock-out bottom and top

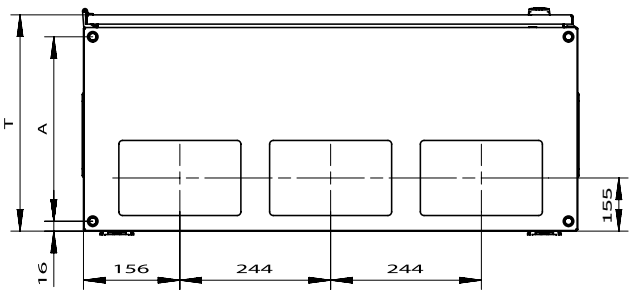
TG1...
TL1...
TW1...



TG2...
TL2...
TW2...



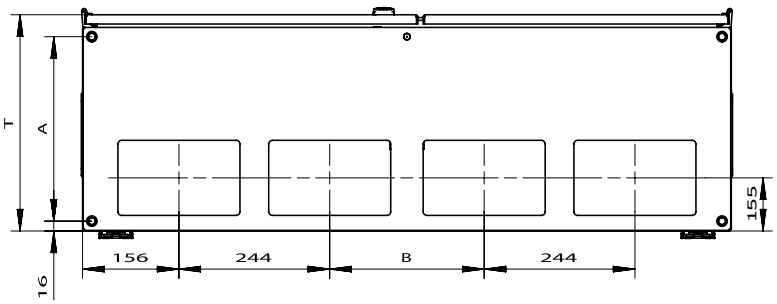
TG3...
TL3...
TW3...



TG4...
TL4...
TW4....

TG5...
TL5...
TW5....

TG6...
TL6...
TW6....

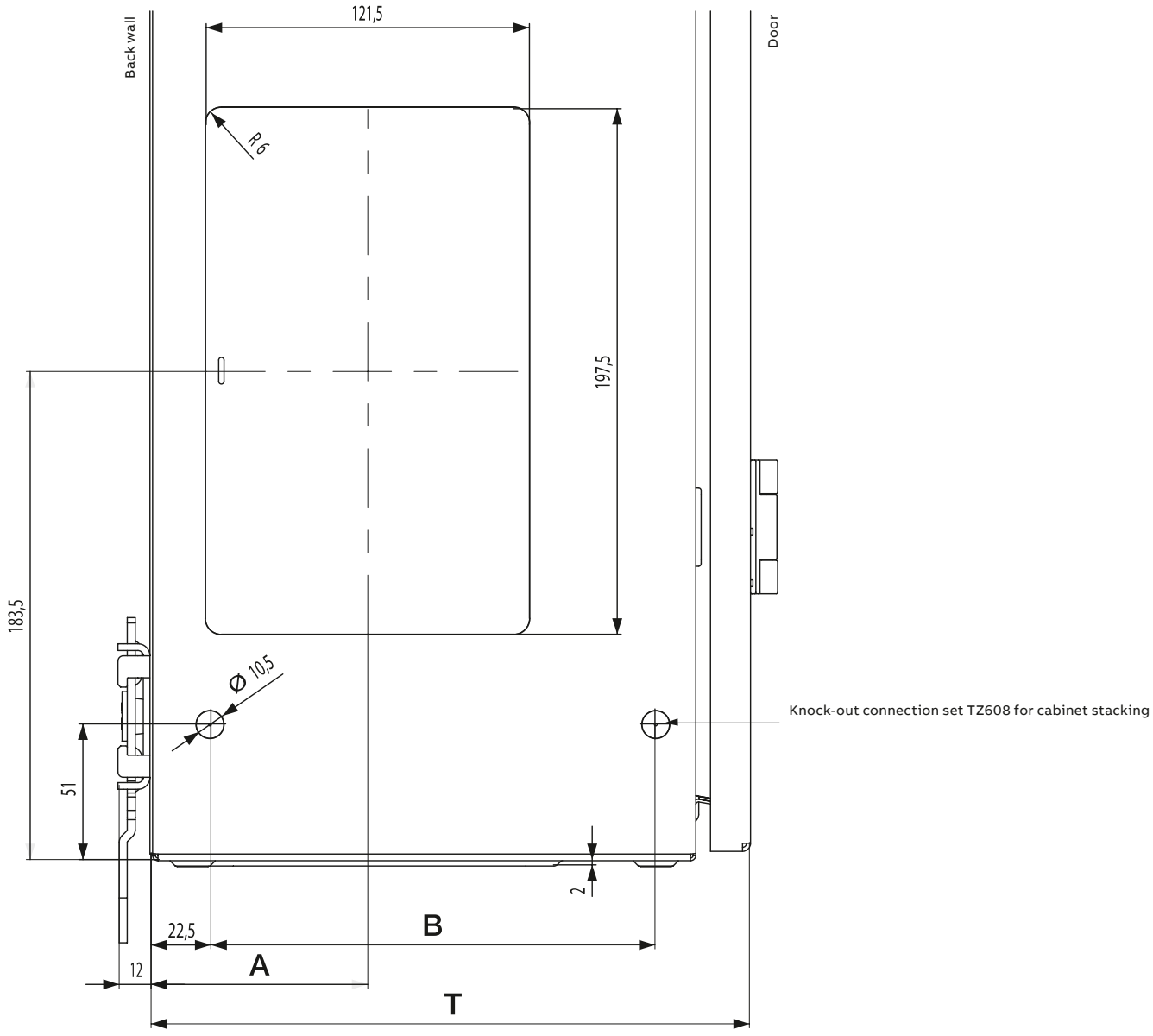


Cabinet series	Depth	A	B (field width 4)	B (field width 5)	B (field width 6)
TwinLine-G	225.00	173.50	1 x 250 (250)	2 x 250 (500)	3 x 250 (750)
TwinLine-L	275.00	223.50			
TwinLine-W	350.00	298.50			

> Dimensions in mm

TwinLine N 55 wall cabinets and floor-standing cabinets

Side view of flange knock-out bottom and top



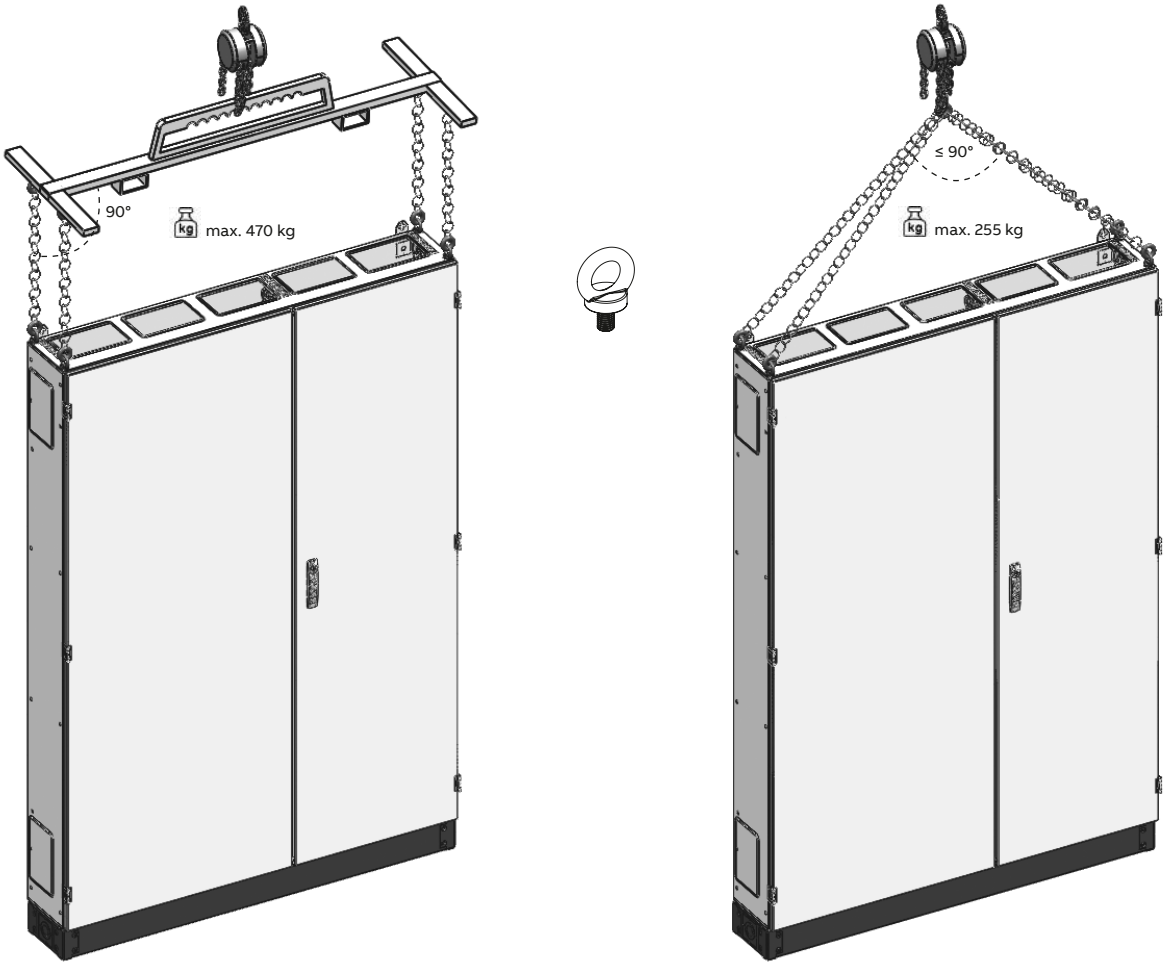
Cabinet series	Depth	A	B
TwinLine-G	225.00	80.50	167.00
TwinLine-L	275.00	106.50	217.00
TwinLine-W	350.00	154.50	292.00

> Dimensions in mm

TwinLine N 55 wall cabinets and floor-standing cabinets

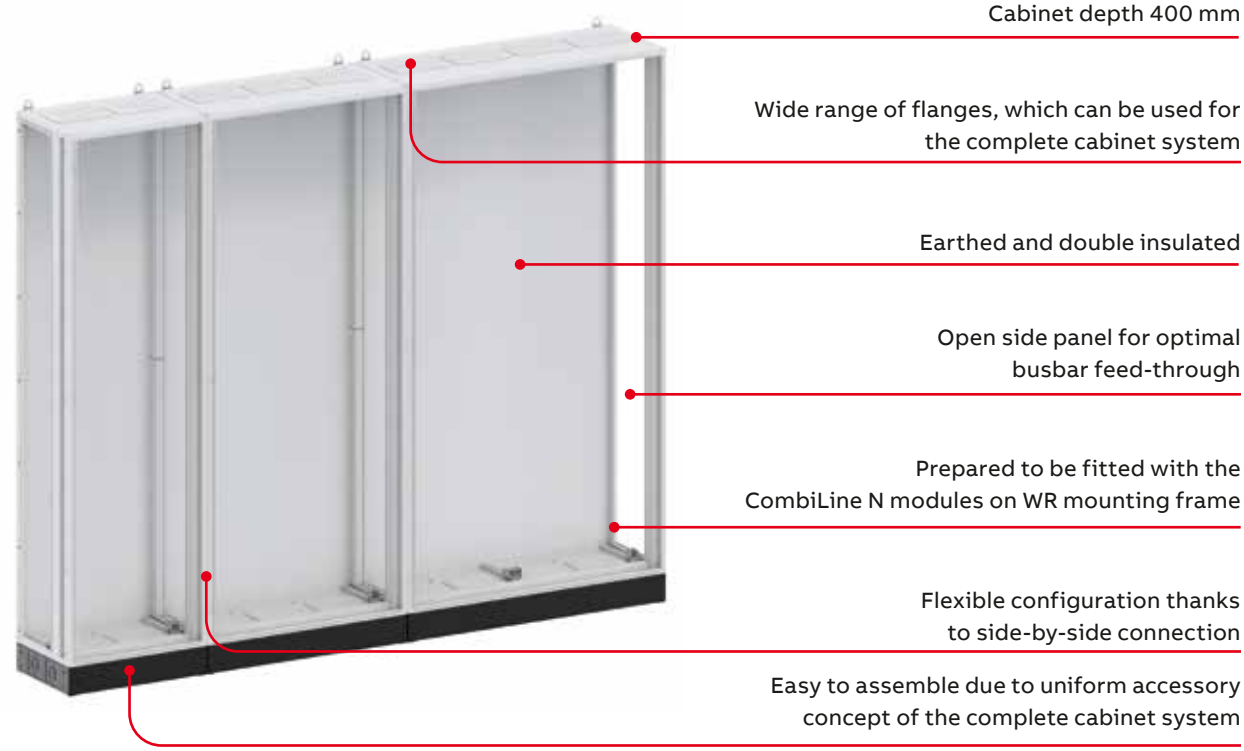
Crane transport

The TwinLine housing can be lifted in accordance with the information given. Here it is imperative that transport eye bolts from ABB STRIEBEL & JOHN with order code TZ615P4 are used. Crane transport must be provided exclusively for individual cabinets! Furthermore, the maximum installation weights of the cabinets must be observed.



TwinLine N 55 wall cabinets and floor-standing cabinets

Floor standing cabinets, TwinLine-X, side-by-side assembly



TwinLine N 55 wall cabinets and floor-standing cabinets

Floor standing cabinets/technical specifications and product features

TwinLine-X with door, IP55 , ⏚	
Standards/regulations	DIN EN 62208, DIN EN 61439-1/-2/-3, DIN VDE 0660-600-1/-2/-3*[1]
Mechanical impact strength	IK08 for the cabinet enclosure with sheet steel door
	IK07 in the area of flange knock-outs and for transparent doors
Environmental conditions	Indoor installations
	Ambient air temperature max. + 40 °C
	Ambient air temperature min. -5 °C
	Operating temperature max. + 55 °C
	Storage temperature max. + 55 °C
	Storage temperature min. - 5 °C
Enclosure and doors	Sheet steel, colour RAL 7035, powder-coated
	For each panel width, there is one flange opening at the top and one knockout at the bottom
	Door opening angle 180 degrees
	For cabinets with four panel widths double-wing doors
	Doors with espagnolette closure
	Standard closure double bit 3 mm
Internal configuration options*[2]	Prepared to be fitted with CombiLine modules to WR mounting frame and mounting plates
Delivery forms	Enclosure with door
	External mounting brackets included in the scope of delivery
	The mounting rails with mounting frame holders for right and left and also an additional mounting rail for cabinets with four panel widths are included in the scope of delivery
	A touch guard for the double insulated cabinet is included in the scope of delivery
	The touch guard for the earthed cabinet must be ordered separately as accessory
Accessories	Side panels must be ordered separately
	The connection set must be ordered separately
	Flanges must be ordered separately
	Plinths must be ordered separately
	The touch guard for the earthed cabinet must be ordered separately

*[1] The permissible heating for switchgear assemblies up to a rated current of 630 A can be verified with the procedure according to section 10.10.4.2; for the required values of the power loss capacity, please refer to the table on page 21; above a rated current of 630 A, the procedure in accordance with 10.10.4.3 (DIN EN 61439-1 supplement 2, DIN VDE 0660-600-1 supplement 2) must be applied

*[2] For a more detailed description of the installation options for floor-standing cabinets

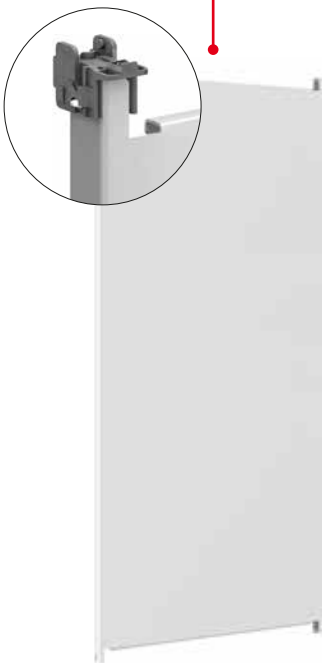
TwinLine N 55 wall cabinets and floor-standing cabinets

TwinLine-X / assembly options ⏚



TX312G

Touch guard
to be ordered separately



Fitting of the mounting plate*
Construction for control systems
with mounting plate



Assembly with WR mounting frame*
Internal configuration as
sub-distribution board
with CombiLine modules
on WR mounting frame

* The combination of the individual construction variants next to each other is possible

TwinLine N 55 wall cabinets and floor-standing cabinets

TwinLine-X / assembly options



TX312S

Touch guard
included in the scope of delivery



Assembly with WR mounting frame
Internal configuration as sub-distribution board with CombiLine modules on WR mounting frame

TwinLine N 55 wall cabinets and floor-standing cabinets

TwinLIne-X, floor standing cabinet, depth 400mm ⏚



TX312G

Delivery contains

- External mounting brackets
- Mounting rails with mounting frame holder right and left
- For cabinets with 4 panel widths there is an additional mounting fixture for the internal configuration with CombiLine modules on WR mounting frame and mounting plates

Accessories to be ordered separately

- Side panel
- Touch guard for an internal configuration with CombiLine modules
- Flanges
- Plinths
- Connection set

Height		Width		External dimensions		Floor-standing cabinets with door IP55	
GU	OH	PW	SU	H x W (mm)	Unit	Type	Order code
TwinLine-X, cabinet depth 400 mm ⏚							
12	8	2	288	1850 x 550	1	TX212G	2CPX010974R9999
		3	432	1850 x 800	1	TX312G	2CPX010975R9999
		4	576	1850 x 1050	1	TX412G	2CPX010976R9999

Article		External dimensions H x D (mm)	Pcs	Type	Order code
 TX012G	**Side panel** for TwinLine-X,	1850 x 400	2	TZX012G	2CPX010987R9999
 TZ662	**Connection set** for side-by-side assemblys		1	TZ662	2CPX010989R9999

TwinLine N 55 wall cabinets and floor-standing cabinets

TwinLIne-X, floor standing cabinet, depth 400mm ⧈



TX312S

Delivery contains

- External mounting brackets
- Mounting rails with mounting frame holder right and left
- For cabinets with 4 panel widths there is an additional mounting fixture for the internal configuration with CombiLine modules on WR mounting frame
- Touch guard

Accessories to be ordered separately

- Side panel
- Flanges
- Plinth
- Connection set

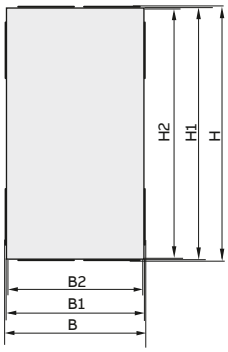
Height		Width		External dimensions		Floor-standing cabinets with door IP55	
GU	OH	PW	SU	H x W (mm)	Unit	Type	Order code
TwinLine-X, cabinet depth 400 mm ⧈							
12	8	2	288	1850 x 550	1	TX212S	2CPX010977R9999
		3	432	1850 x 800	1	TX312S	2CPX010978R9999
		4	576	1850 x 1050	1	TX412S	2CPX010979R9999

Article		External dimensions H x D (mm)	Pcs	Type	Order code
 TX012S	**Side panel** for TwinLine-X	1850 x 400	2	TZX012S	2CPX010988R9999
 TZ663	**Connection set** for side-by-side assemblys		1	TZ663	2CPX010994R9999

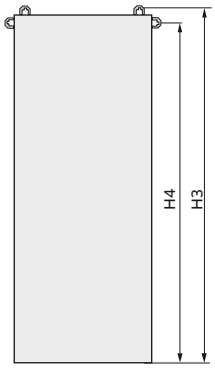
TwinLine N 55 wall cabinets and floor-standing cabinets

TwinLine-X enclosure and fastening dimensions, cabinet depth 400 mm

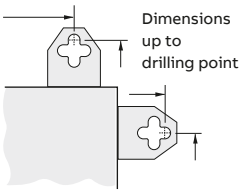
Top view
standing cabinet
External dimensions/
internal dimensions



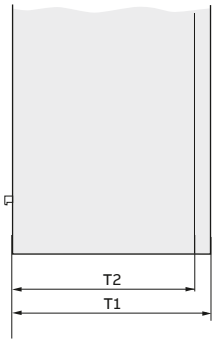
Front view
Standalone cabinet
Dimensions wall mounting



Front view
External mounting
Detail



Side view
With/without door



Height		Width		External dimensions		Internal dimensions		External dimensions*		Dimensions wall mounting		Depth	
GU	OH	PW	Type	H1	B1	H2	B2	H	B	H3	H4	T1	T2
TwinLine-X floor-standing cabinets ⏚ ⧈													
12	8	2	TX212	1850	550	1802	502	1854	564	1872	1796	400	394.5
		3	TX312	1850	800	1802	752	1854	814	1872	1796	400	394.5
		4	TX412	1850	1050	1802	1002	1854	1064	1872	1796	400	394.5

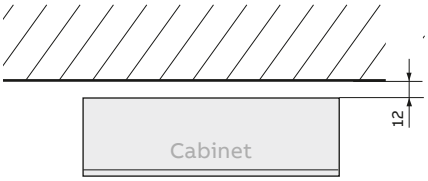
* incl. flange knockouts and side walls

> Dimensions in mm

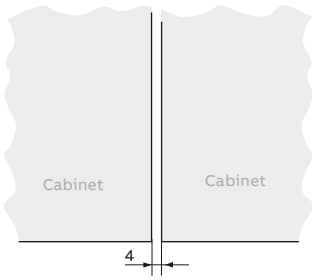
TwinLine N 55 wall cabinets and floor-standing cabinets

TwinLine-X weights and power dissipation, cabinet depth 400 mm

Type of installation
Cabinet on the wall



Type of installation
Cabinet combination
side by side



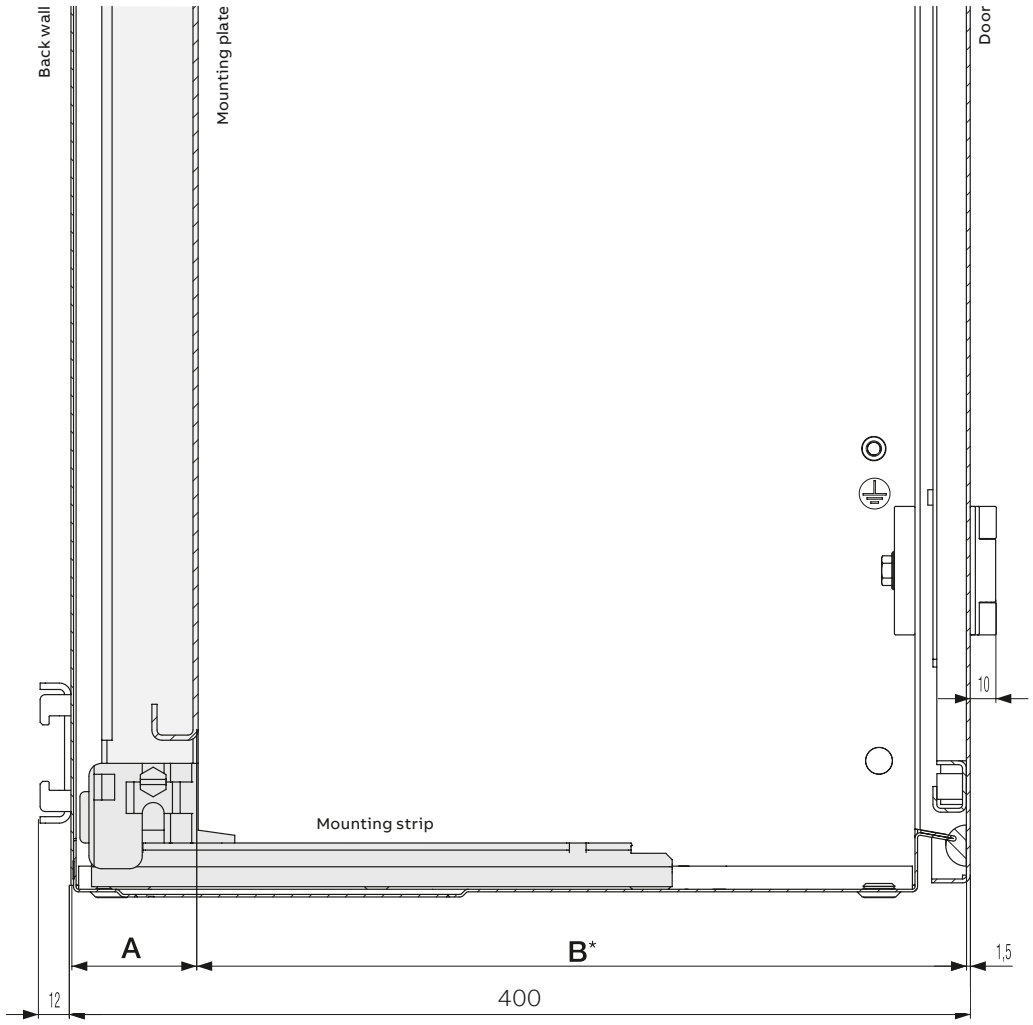
Height		Width		Power dissipation in watts* at overtemperature △t 20K	Cabinet weight in kg		max. installation weight
GU	OH	PW	Type		With door ⏚	With door ⧈	in kg
TwinLine-X floor-standing cabinets ⏚ ⧈							
12	8	2	TX212	144.3	46.8	49.5	120.0
		3	TX312	192.1	55.2	59.5	180.0
		4	TX412	241.0	71.7	77.4	240.0

* General notes on determining the power loss: Ambient temperature 35 °C, internal temperature 55 °C, it must be ensured that the permissible equipment temperature is not exceeded; altitude of the installation site ≤ 2000 m above sea level; internal form of separation = 1; side panels not covered.

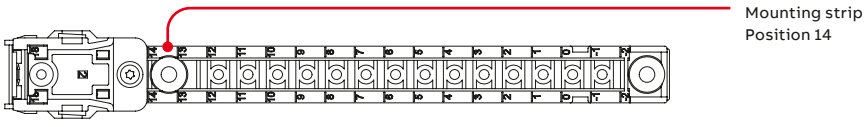
> Dimensions in mm

TwinLine N 55 wall cabinets and floor-standing cabinets

TwinLine-X dimensions for installation of a mounting plate



Mounting strip
Top view



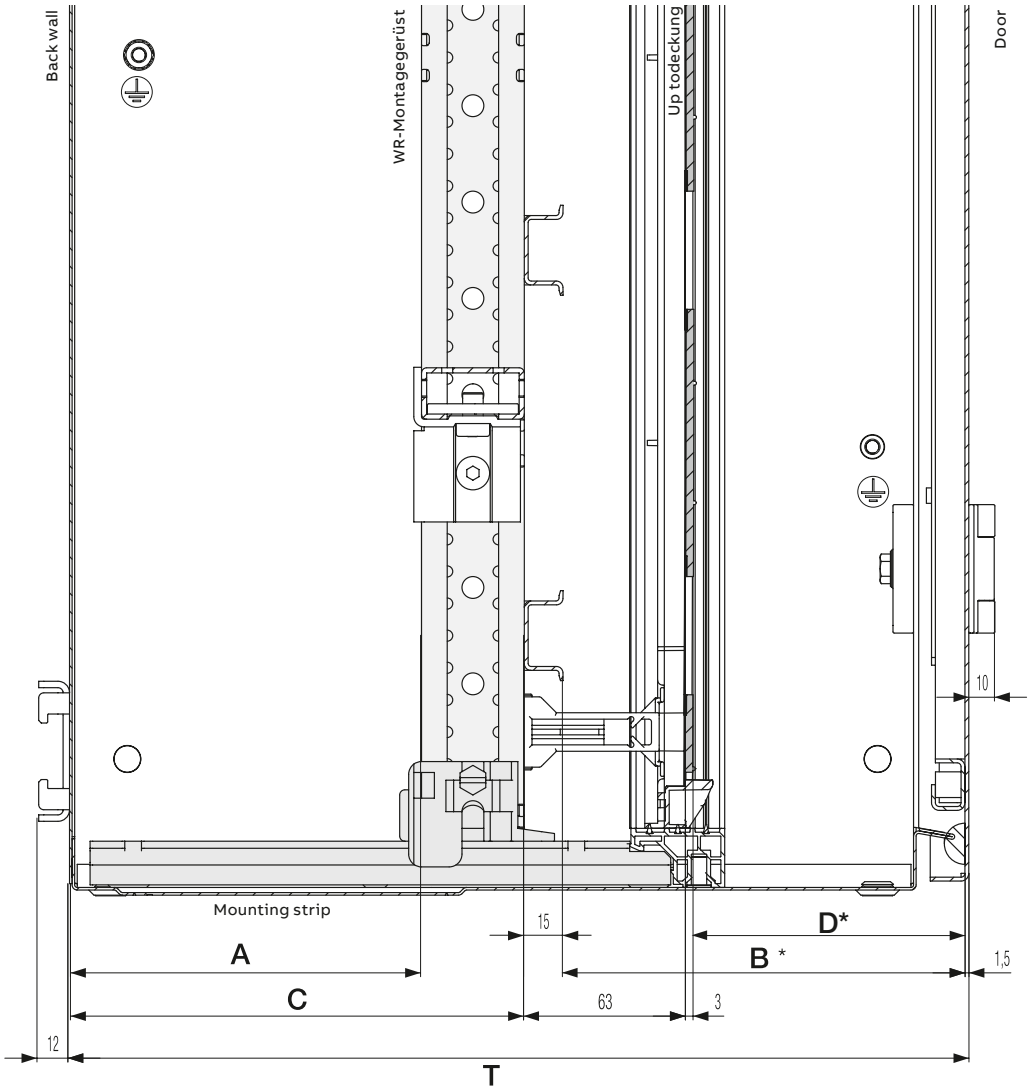
Cabinet series	Depth	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	-1	-2
Dimension A at installation position																		
TwinLine X	400	48.5	61	73.5	86	98.5	111	123.5	136	148.5	161	173.5	186	198.5	211	223.5	236	248.5
Dimension B at installation position*																		
TwinLine X	400	349	336.5	324	311.5	299	286.5	274	261.5	249	236.5	224	211.5	199	186.5	174	161.5	149

* Related to the area of the installation space (see page 139); outside the installation space, this dimension is reduced by 35 mm due to door installation components

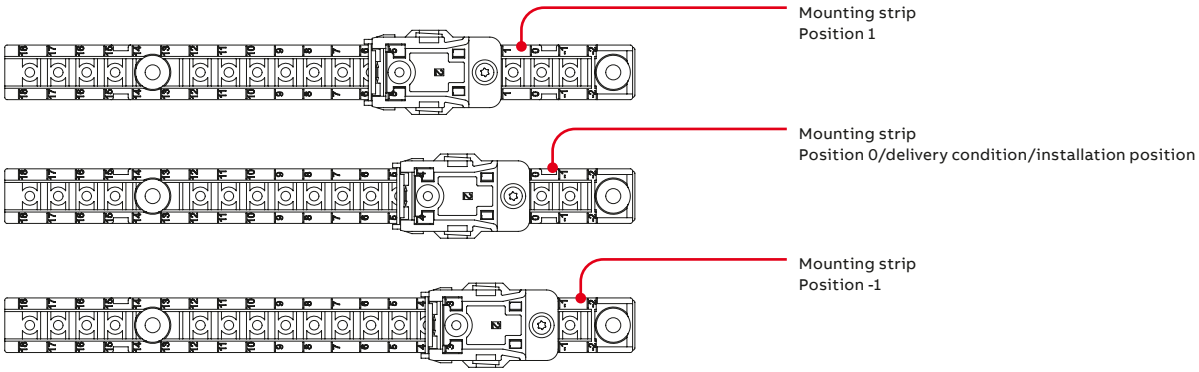
> Dimensions in mm

TwinLine N 55 wall cabinets and floor-standing cabinets

TwinLine-X dimensions for installation of CombiLine N module on WR mounting frame



Mounting strip
Top view



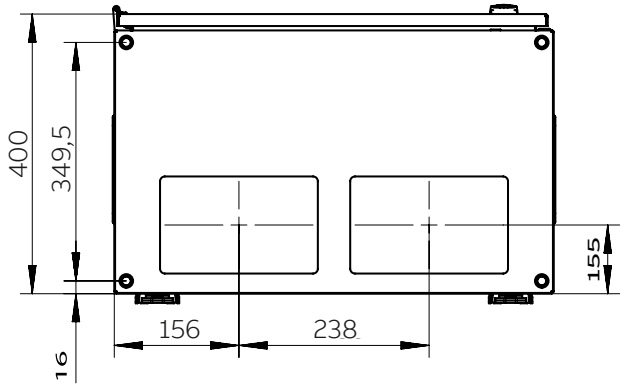
		Dimension A at installation position*			Dimension B at installation position**			Dimension C at installation position*			Dimension D at installation position**		
Cabinet series	**Depth**	**1**	**0**	**-1**	**1**	**0**	**-1**	**1**	**0**	**-1**	**1**	**0**	**-1**
TwinLine-X	400	173.5	186	198.5	169	156.5	144	213.5	226	238.5	117.5	105	92.5

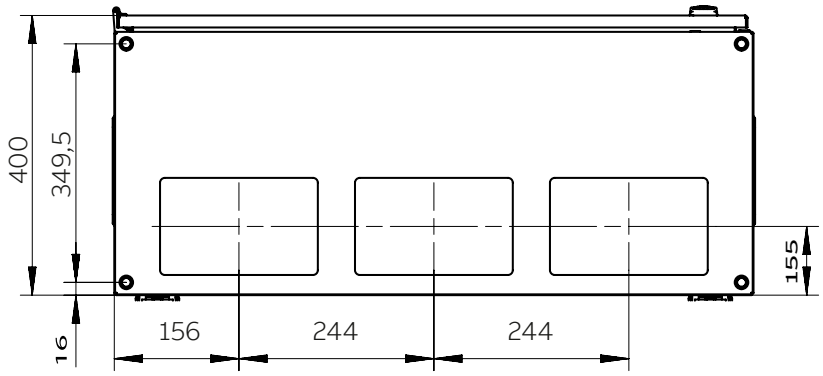
* Related to the area of the installation space; outside the installation space, this dimension is reduced by 35 mm due to door installation components

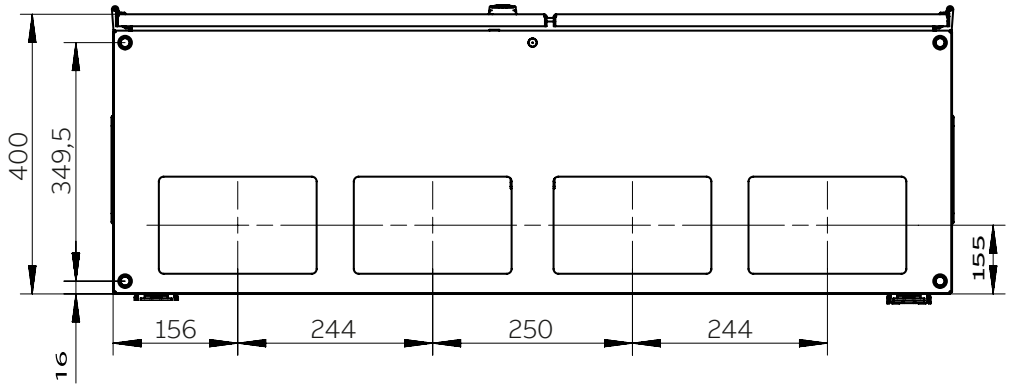
> Dimensions in mm

TwinLine N 55 wall cabinets and floor-standing cabinets

TwinLine-X dimensions of the top and bottom flange knockout



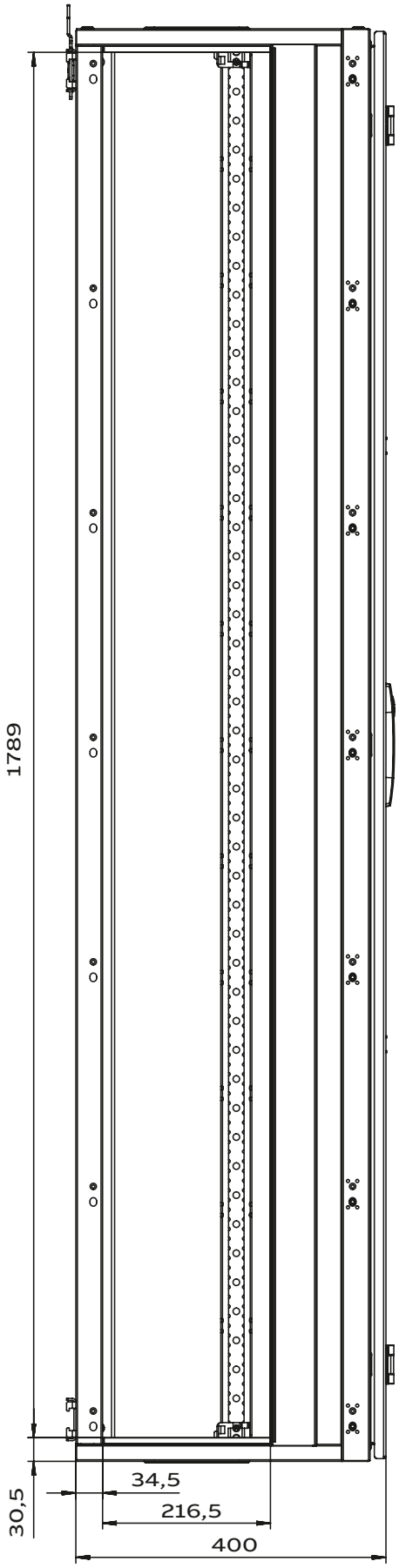




> Dimensions in mm

TwinLine N 55 wall cabinets and floor-standing cabinets

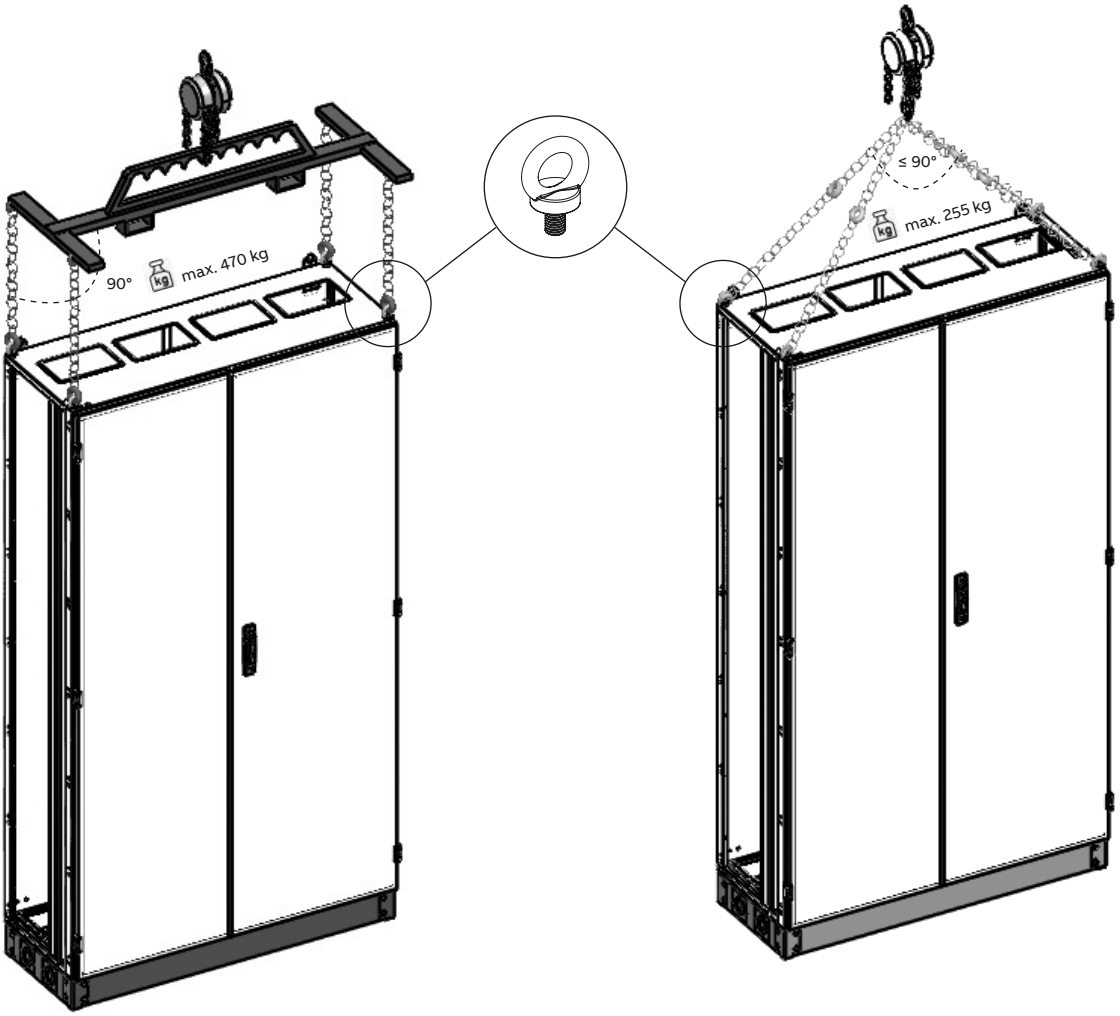
TwinLine-X left sectional view with dimensions



TwinLine N 55 wall cabinets and floor-standing cabinets

TwinLine-X transport by crane

The TwinLine housing can be lifted in accordance with the information given. Here it is imperative that transport eye bolts from ABB STRIEBEL & JOHN with order code TZ615P4 are used. Crane transport must be provided exclusively for individual cabinets! Furthermore, the maximum installation weights of the cabinets must be observed.



Notes

TwinLine N accessories

IP55 flanges



TZ101



TZ110



TZ111

TZ102



TZ103



TZ112



TZ104



TZ105



TZ107



TZ106



RZF10



RZF9

Article	Unit	Type	Order code
Membrane flange Material plastic			
With 52 cable sleeves 2 x 6 - 32,5 mm, 2 x 6 - 25 mm, 4 x 6 - 19 mm, 10 x 6 - 15 mm, 2 x 6 - 12 mm, 31 x 6 - 11 mm, 1 x 6 - 7 mm	1	TZ101	2CPX010450R9999
	10	TZ101P10	2CPX010451R9999
	100	TZ101P100	2CPX010826R9999
With 8 membrane entries For cables sections 8 x 13 – 34 mm	1	TZ110	2CPX010850R9999
	10	TZ110P10	2CPX010934R9999
With 12 membrane entries and 1 cable sleeve entry For cable diameter 1 x 14 to 54 mm, 3 x 13 to 34 mm, 3 x 13 to 26,5 mm, 4 x 5 to 21 mm, 1 x 6 to 15 mm	1	TZ111	2CPX010851R9999
	10	TZ111P10	2CPX010935R9999
Flanges for M-screw joints Material plastic			
1 x M63/M50, 2 x M32/M20, 5 x M25, 5 x M20	1	TZ102	2CPX010452R9999
	10	TZ102P10	2CPX010453R9999
4 x M20/M25, 18 x M20	1	TZ103	2CPX010454R9999
	10	TZ103P10	2CPX010455R9999
Flanges with cable sleeves Material plastic			
With 1 cable sleeve For cable diameter 1 x 14 to 68 mm	1	TZ112	2CPX010852R9999
With 2 cable sleeve For cable diameter 2 x 14 to 68 mm	1	TZ104	2CPX010456R9999
	10	TZ104P10	2CPX010932R9999
With 3 cable sleeve For cable diameter 3 x 14 to 54 mm	1	TZ105	2CPX010457R9999
	10	TZ105P10	2CPX010933R9999
Locking flanges			
Material plastic	1	TZ107	2CPX010460R9999
	10	TZ107P10	2CPX010461R9999
Material steel sheet For earthed cabinets	1	TZ106	2CPX010458R9999
	10	TZ106P10	2CPX010459R9999
Cable sleeves made of PVC for material thickness 2 - 3 mm			
For cable diameter 14 - 54 mm Hole diameter 68 mm	1	RZF9	2CPX046612R9999
For cable diameter 14 - 68 mm Hole diameter 75 mm	10	RZF10	2CPX046613R9999

TwinLine N accessories

Base for wall cabinets and standing cabinets



TZW305



TZW310



TZ627P2



TZ323



ZK143

Article	Depth mm	Width FB	Width mm	Unit	Type	Order code
Base, height 50 mm, color RAL 9005						
For TwinLine-G and H	225	1	300	1	TZG105	2CPX010571R9999
	225	2	550	1	TZG205	2CPX010573R9999
	225	3	800	1	TZG305	2CPX010575R9999
	225	4	1050	1	TZG405	2CPX010577R9999
	225	5	1300	1	TZG505	2CPX010579R9999
For TwinLine-L*	275	1	300	1	TZL105	2CPX010581R9999
	275	2	550	1	TZL205	2CPX010583R9999
	275	3	800	1	TZL305	2CPX010585R9999
	275	4	1050	1	TZL405	2CPX010587R9999
	275	5	1300	1	TZL505	2CPX010589R9999
For TwinLine-W*	350	1	300	1	TZW105	2CPX010661R9999
	350	2	550	1	TZW205	2CPX010663R9999
	350	3	800	1	TZW305	2CPX010665R9999
	350	4	1050	1	TZW405	2CPX010667R9999
	350	5	1300	1	TZW505	2CPX010669R9999
	350	6	1550	1	TZW605	2CPX010671R9999
Für TwinLine-X**	400	2	550	1	TZX205	2CPX010981R9999
	400	3	800	1	TZX305	2CPX010982R9999
	400	4	1050	1	TZX405	2CPX010983R9999
Base, height 100 mm, color RAL 9005						
For TwinLine-G and H Side knock-outs 1 x M32/M50 or 80 x 80 mm	225	1	300	1	TZG110	2CPX010572R9999
	225	2	550	1	TZG210	2CPX010574R9999
	225	3	800	1	TZG310	2CPX010576R9999
	225	4	1050	1	TZG410	2CPX010578R9999
	225	5	1300	1	TZG510	2CPX010580R9999
For TwinLine-L* Side knock-outs 1 x M32/M50 or 80 x 80 mm	275	1	300	1	TZL110	2CPX010582R9999
	275	2	550	1	TZL210	2CPX010584R9999
	275	3	800	1	TZL310	2CPX010586R9999
	275	4	1050	1	TZL410	2CPX010588R9999
	275	5	1300	1	TZL510	2CPX010590R9999
For TwinLine-W* Side knock-outs 2 x M32/M50 or 2 x 80 x 80 mm	350	1	300	1	TZW110	2CPX010662R9999
	350	2	550	1	TZW210	2CPX010664R9999
	350	3	800	1	TZW310	2CPX010666R9999
	350	4	1050	1	TZW410	2CPX010668R9999
	350	5	1300	1	TZW510	2CPX010670R9999
	350	6	1550	1	TZW610	2CPX010672R9999
For TwinLine-X** Side knock-outs 2 x M32/M50 or 2 x 80 x 80 mm	400	2	550	1	TZX210	2CPX010984R9999
	400	3	800	1	TZX310	2CPX010985R9999
	400	4	1050	1	TZX410	2CPX010986R9999
Base mounting lug To fasten the base to the cabinet from the outside For base height 50 mm and 100 mm				2	TZ627P2	2CPX010853R9999
Cable clamp rail For base, height 100 mm		1	250	1	TZ321	2CPX010473R9999
		2	500	1	TZ322	2CPX010474R9999
		3	750	1	TZ323	2CPX010475R9999
		4	1000	1	TZ324	2CPX010476R9999
		5	1250	1	TZ325	2CPX010477R9999
		6	1500	1	TZ326	2CPX010478R9999
Bolt clamp For cable clamp rail						
From 22 to 28 mm				1	ZK143	2CPX060005R9999
From 40 to 46 mm				1	ZK144	2CPX060006R9999
From 64 to 70 mm				1	ZK145	2CPX060007R9999

* For base for field widths of 4 or more, a base stiffener is included in the scope of delivery

** For base for TwinLine-X base stiffener is included in the scope of delivery

TwinLine N accessories

Lock replacement parts

Article		Unit	Type	Order code
 TZ507  TZ508	**Key plates for actuation pins**			
	For actuation pin 3 mm (standard)* and 5 mm (similar to RAL 9005)	1	TZ507	2CPX010491R9999
	For triangular and rectangular actuator pin, as well as for Daimler-Benz insert	1	TZ508	2CPX010492R9999
 ZH130  ZH132  ZH134  ZH137	**Actuating pins**			
	Double bit 3 mm*	1	ZH130	2CPX060490R9999
	Double bit 5 mm	1	ZH131	2CPX060491R9999
	Triangle 7 mm	1	ZH132	2CPX060492R9999
	Triangle 8 mm	1	ZH133	2CPX060493R9999
	Rectangular 6 mm	1	ZH134	2CPX060494R9999
	Rectangular 7 mm	1	ZH135	2CPX060495R9999
	Rectangular 8 mm	1	ZH136	2CPX060496R9999
	Daimler-Benz	1	ZH137	2CPX060497R9999
 TZ503  TZ504	**L-handle**			
	With key plate, with lock	1	TZ503	2CPX010487R9999
	With key plate, without lock	1	TZ504	2CPX010488R9999
 TZ505  TZ506	**T-handle**			
	With key plate, with lock	1	TZ505	2CPX010489R9999
	With key plate, without lock	1	TZ506	2CPX010490R9999
 TZ510	**Swivel handle** For profile half cylinder 40 mm (30/10) with sealing cap	1	TZ510	2CPX010494R9999
 ZH142	**Blindeinsatz** Instead of a profile half cylinder for swivel handle TZ510	1	ZH142	2CPX060502R9999

* Replacement part included in the scope of delivery

TwinLine N accessories

Lock replacement parts

Article		Unit	Type	Order code
 ZH91	**Universal key** Double bit 3 mm/5 mm Triangular 8 mm, square 6 mm/8 mm	1	ZH91	2CPX066091R9999
	Double bit 3 mm*	1	ZH160	2CPX060660R9999
	Double bit 5 mm	1	ZH161	2CPX060661R9999
	Triangle 7 mm	1	ZH157	2CPX060657R9999
 ZH160  ZH157	Triangle 8 mm	1	ZH158	2CPX060658R9999
	Rectangular 6 mm	1	ZH162	2CPX060662R9999
	Rectangular 7 mm	1	ZH163	2CPX060663R9999
	Rectangular 8 mm	1	ZH164	2CPX060664R9999
 ZH162  ZH165	Daimler-Benz	1	ZH165	2CPX060665R9999
 TZ212	**Rod lock**			
	4 RE = 600 mm with lock body*	1	TZ204	2CPX010462R9999
	5 RE = 750 mm with lock body*	1	TZ205	2CPX010463R9999
	6 RE = 900 mm with lock body*	1	TZ206	2CPX010464R9999
	7 RE = 1050 mm with lock body*	1	TZ207	2CPX010465R9999
	8 RE = 1200 mm with lock body*	1	TZ208	2CPX010466R9999
	9 RE = 1350 mm with lock body*	1	TZ209	2CPX010467R9999
	12 RE = 1800 mm with lock body*	1	TZ212	2CPX010468R9999
 TZ511	**Rod guide***	1	TZ511	2CPX010495R9999
 TZ501	**Bumper shoe*** For rod lock	1	TZ501	2CPX010485R9999
 TZ502	**Rubber seal *** For double door	1	TZ502	2CPX010486R9999

* Replacement part included in the scope of delivery

TwinLine N accessories

General accessories



TZ601



TZ604



TZ605



TZ606



TZ631P10



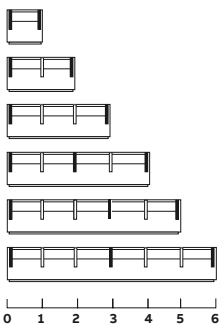
TZ632P10

Article	Unit	Unmounted		Installed in the cabinet*	
		Type	Order code	Type	Order code
Mounting strips[*1] For mounting frame holder					
For TwinLine-G	1	TZ601	2CPX010779R9999	TZ601A	2CPX010787R9999
	10	TZ601P10	2CPX010814R9999	-	-
	100	TZ601P100	2CPX010815R9999	-	-
For TwinLine-L	1	TZ602	2CPX010780R9999	TZ602A	2CPX010788R9999
	10	TZ602P10	2CPX010816R9999	-	-
	100	TZ602P100	2CPX010817R9999	-	-
For TwinLine-W	1	TZ603	2CPX010781R9999	TZ603A	2CPX010789R9999
	10	TZ603P10	2CPX010818R9999	-	-
	100	TZ603P100	2CPX010819R9999	-	-
For TwinLine X	1	TZ660	2CPX010991R9999	TZ660A	2CPX010993R9999
	10	TZ660P10	2CPX010992R9999	-	-
Mounting frame holder middle[*1], **incl. mounting bolts** For expansion with WR and EDF mounting frame or mounting plates side by side	1	TZ604	2CPX010782R9999	TZ604A	2CPX010790R9999
	10	TZ604P10	2CPX010820R9999	-	-
	100	TZ604P100	2CPX010821R9999	-	-
Mounting frame holder[*1] **left or right, incl. mounting bolts** For expansion with WR and EDF mounting frame or mounting plates or middle support rails	1	TZ605	2CPX010783R9999	TZ605A	2CPX010791R9999
	10	TZ605P10	2CPX010822R9999	-	-
	100	TZ605P100	2CPX010823R9999	-	-
EDF adapter[*1] For mounting frame holder For expansion with EDF mounting frame	1	TZ606	2CPX010784R9999	TZ606A	2CPX010792R9999
	10	TZ606P10	2CPX010824R9999	-	-
	100	TZ606P100	2CPX010825R9999	-	-
Mounting bolt[*2] For TZ604 mounting frame holder in the middle	10	TZ631P10	2CPX010930R9999	-	-
Mounting bolt[*2] For TZ605 mounting frame holder right or left	10	TZ632P10	2CPX010931R9999	-	-

* Only in conjunction with the factory-installed meter and distributor fields, combination kits or CombiLine modules

[*1] Additionally required depending on the expansion; see below for details

[*2] Included in the scope of delivery



Position of the mounting strips with mounting frame holder Top view

Factory-installed
Mounting strips with left and right mounting frame brackets, as well as an additional mounting strip for cabinets with field width 4 and above

Can be retrofitted
Depending on the expansion, additional mounting strips, mounting frame holder and EDF adapter are required

TwinLine N accessories

General accessories



TZ313



TZ433

Article	Unit	Unmounted		Installed in the cabinet*	
		Type	Order code	Type	Order code
Cable clamp rails For mounting in the cabinet For TwinLine-L and TwinLine-W					
Field width 1 = 250 mm	1	TZ311	2CPX010469R9999	TZ311A	2CPX010808R9999
Field width 2 = 500 mm	1	TZ312	2CPX010470R9999	TZ312A	2CPX010809R9999
Field width 3 = 750 mm	1	TZ313	2CPX010471R9999	TZ313A	2CPX010810R9999
Field width 4 = 1000 mm	1	TZ314	2CPX010472R9999	TZ314A	2CPX010811R9999
Field width 5 = 1250 mm	1	TZ315	2CPX010785R9999	TZ315A	2CPX010812R9999
Field width 6 = 1500 mm	1	TZ316	2CPX010786R9999	TZ316A	2CPX010813R9999
Middle support rails For mounting in the cabinet, mounting brackets are included in the scope of delivery 2 mounting strips are additionally needed (TZ601, TZ602 or TZ603, depending on the cabinet depth).					
Field width 1 = 250 mm	1	TZ431	2CPX010960R9999	TZ431A	2CPX010966R9999
Field width 2 = 500 mm	1	TZ432	2CPX010961R9999	TZ432A	2CPX010967R9999
Field width 3 = 750 mm	1	TZ433	2CPX010962R9999	TZ433A	2CPX010968R9999
Field width 4 = 1000 mm	1	TZ434	2CPX010963R9999	TZ434A	2CPX010969R9999
Field width 5 = 1250 mm	1	TZ435	2CPX010964R9999	TZ435A	2CPX010970R9999
Field width 6 = 1500 mm	1	TZ436	2CPX010965R9999	TZ436A	2CPX010971R9999

* Only in conjunction with the factory-installed meter and distributor fields, combination kits or CombiLine modules



ZW125P4



TZ615P4



TZ609



TZ608



TZ607



TZ630P10

Article	Unit	Type	Order code
External mounting lugs* To mount the cabinet on the wall	4	ZW125P4	2CPX062461R9999
Transport eye bolts	4	TZ615P4	2CPX010510R9999
IP55 protective frame for cabinet stacking			
Required for insulated cabinets	1	TZ609	2CPX010504R9999
Required for earthed cabinets	1	TZ626	2CPX010778R9999
IP55 Connection set for cabinet stacking For wall cabinets side by side or on top of each other order 1 x TZ608 For standing cabinets order 2 x TZ608	1	TZ608	2CPX010503R9999
Door hinge 180 degrees* Color RAL 9005	1	TZ607	2CPX010502R9999
Pin for door hinge 180 degrees*	10	TZ630P10	2CPX010929R9999

* Included in the scope of delivery

TwinLine N accessories

General accessories



ZL8



TZB004



TZ617P10



TZ628P10

TZ664P10

ZA6



ZA5



ZA123



TZ650

Article	Unit	Type	Order code
Door earthing set 10 mm²	1	ZL8	2CPX038001R9999
Door stiffening profile For cabinet height 4 and 5 RE	1	TZB004	2CPX010856R9999
Sealing plugs/connection plugs*1	10	TZ617P10	2CPX010512R9999
Blind plug* For hinge break	10	TZ628P10	2CPX010854R9999
Cover cap* For screws of the side panels or the cabinet connection TX	10	TZ664P10	2CPX010995R9999
DIN A4 plan pocket Self-adhesive with transparent sleeve and reinforced back	1	ZA6	2CPX038227R9999
	10	ZA6P10	2CPX062380R9999
Self-adhesive with transparent sleeve	10	ZA61P10	2CPX062375R9999
DIN A4 plan pocket Self-adhesive	1	ZA13	2CPX038233R9999
	10	ZA13P10	2CPX062381R9999
DIN A5 plan pocket Self-adhesive	1	ZA5	2CPX038228R9999
	10	ZA5P10	2CPX062382R9999
Plan pocket holder			
For ZA13 plan pocket to be screwed to the door reinforcing elements	1	ZA123	2CPX038471R9999
For ZA5 plan pocket to be screwed to the door reinforcing elements	1	ZA125	2CPX038472R9999
LED control cabinet light		TZ650	2CPX010972R9999

* Included in the scope of delivery

TwinLine N accessories

Accessories meter applications



TZ614



TZ610



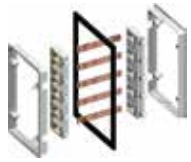
TZ616



TZ634



TZ618



TZ620

Article	Unit	Unmounted		Installed in the cabinet*	
		Type	Order code	Type	Order code
Cover strip[*1] For meter field installation to cover the mounting points of the middle support rail in the insulated standing cabinet					
For TwinLine-G	1	TZ612	2CPX010507R9999	TZ612A	2CPX010796R9999
For TwinLine-L	1	TZ613	2CPX010508R9999	TZ613A	2CPX010797R9999
For TwinLine-W	1	TZ614	2CPX010509R9999	TZ614A	2CPX010798R9999
Inner cladding[*1] For meter fields, depth = 225 - 350 mm Additional profile for meter fields with 150 mm connection compartment at the top, in the insulated cabinet	1	TZ610	2CPX010505R9999	TZ610A	2CPX010795R9999
Mounting set For installation of meter fields in standing cabinets per field width (250 mm) additionally order 1 x TZ616	1	TZ616	2CPX010511R9999	TZ616A	2CPX010799R9999
Mounting set For installation of meter fields (DF... und BF..., 1V30A2B, 1V50A2B) in floor standing cabinets, per panel width order 1 x TZ634	1	TZ634	2CPX011000R999	TZ634A	2CPX010999R9999
Touch protection for earthed cabinets					
For single-level meter fields	1	TZ618	2CPX010673R9999	TZ618A	2CPX010800R9999
For dual-level meter fields	1	TZ619	2CPX010674R9999	TZ619A	2CPX010801R9999
Cabinet-cabinet connector					
5-pole for Cu 12 x 5 mm	1	TZ620	2CPX010793R9999	-	-
5-pole for Cu 2 x 12 x 5 mm	1	TZ621	2CPX010794R9999	-	-

> For further information on feed-in housings, see chapter on meter cabinets

* Only in conjunction with the factory-installed meter and distributor fields, combination kits or CombiLine modules

TwinLine N accessories

Steel-sheet doors with door hinges 180 degrees



TZB306

Height		Width			
RE	BH	FB	Remark	Type	Order code
4	0	1		TZB104	2CPX010528R9999
		2		TZB204	2CPX010535R9999
		3		TZB304	2CPX010542R9999
		4*	Left door	TZB204L	2CPX010549R9999
			Right door	TZB204R	2CPX010550R9999
		5*	Left door	TZB304L	2CPX010563R9999
			Right door	TZB204R	2CPX010550R9999
5	1	1		TZB105	2CPX010529R9999
		2		TZB205	2CPX010536R9999
		3		TZB305	2CPX010543R9999
		4*	Left door	TZB205L	2CPX010551R9999
			Right door	TZB205R	2CPX010552R9999
		5*	Left door	TZB305L	2CPX010564R9999
			Right door	TZB205R	2CPX010552R9999
6	2	1		TZB106	2CPX010530R9999
		2		TZB206	2CPX010537R9999
		3		TZB306	2CPX010544R9999
		4*	Left door	TZB206L	2CPX010553R9999
			Right door	TZB206R	2CPX010554R9999
		5*	Left door	TZB306L	2CPX010565R9999
			Right door	TZB206R	2CPX010554R9999
7	3	1		TZB107	2CPX010531R9999
		2		TZB207	2CPX010538R9999
		3		TZB307	2CPX010545R9999
		4*	Left door	TZB207L	2CPX010555R9999
			Right door	TZB207R	2CPX010556R9999
		5*	Left door	TZB307L	2CPX010566R9999
			Right door	TZB207R	2CPX010556R9999
8	4	1		TZB108	2CPX010532R9999
		2		TZB208	2CPX010539R9999
		3		TZB308	2CPX010546R9999
		4*	Left door	TZB208L	2CPX010557R9999
			Right door	TZB208R	2CPX010558R9999
		5*	Left door	TZB308L	2CPX010567R9999
			Right door	TZB208R	2CPX010558R9999
9	5	1		TZB109	2CPX010533R9999
		2		TZB209	2CPX010540R9999
		3		TZB309	2CPX010547R9999
		4*	Left door	TZB209L	2CPX010559R9999
			Right door	TZB209R	2CPX010560R9999
		5*	Left door	TZB309L	2CPX010568R9999
			Right door	TZB209R	2CPX010560R9999
12	8	1		TZB112	2CPX010534R9999
		2		TZB212	2CPX010541R9999
		3		TZB312	2CPX010548R9999
		4*	Left door	TZB212L	2CPX010561R9999
			Right door	TZB212R	2CPX010562R9999
		5*	Left door	TZB312L	2CPX010569R9999
			Right door	TZB212R	2CPX010562R9999
		6*	Left door	TZB312L	2CPX010569R9999
			Right door	TZB312R	2CPX010570R9999

*Double doors field width 4 and over

TwinLine N accessories

Doors with viewing glass and door hinges 180 degrees



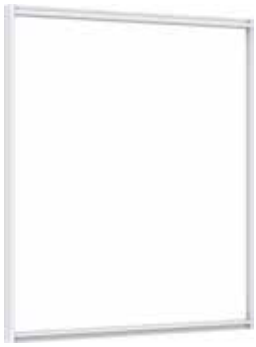
TZT206

Height		Width			
RE	BH	FB	Remark*[1]	Type	Order code
4	0	2		TZT204	2CPX010860R9999
		3		TZT304	2CPX010867R9999
		4*	Left door	TZT204L	2CPX010874R9999
			Right door	TZT204R	2CPX010875R9999
		5*	Left door	TZT304L	2CPX010888R9999
			Right door	TZT204R	2CPX010875R9999
5	1	2		TZT205	2CPX010861R9999
		3		TZT305	2CPX010868R9999
		4*	Left door	TZT205L	2CPX010876R9999
			Right door	TZT205R	2CPX010877R9999
		5*	Left door	TZT305L	2CPX010889R9999
			Right door	TZT205R	2CPX010877R9999
6	2	2		TZT206	2CPX010862R9999
		3		TZT306	2CPX010869R9999
		4*	Left door	TZT206L	2CPX010878R9999
			Right door	TZT206R	2CPX010879R9999
		5*	Left door	TZT306L	2CPX010890R9999
			Right door	TZT206R	2CPX010879R9999
7	3	2		TZT207	2CPX010863R9999
		3		TZT307	2CPX010870R9999
		4*	Left door	TZT207L	2CPX010880R9999
			Right door	TZT207R	2CPX010881R9999
		5*	Left door	TZT307L	2CPX010891R9999
			Right door	TZT207R	2CPX010881R9999
8	4	2		TZT208	2CPX010864R9999
		3		TZT308	2CPX010871R9999
		4*	Left door	TZT208L	2CPX010882R9999
			Right door	TZT208R	2CPX010883R9999
		5*	Left door	TZT308L	2CPX010892R9999
			Right door	TZT208R	2CPX010883R9999
9	5	2		TZT209	2CPX010865R9999
		3		TZT309	2CPX010872R9999
		4*	Left door	TZT209L	2CPX010884R9999
			Right door	TZT209R	2CPX010885R9999
		5*	Left door	TZT309L	2CPX010893R9999
			Right door	TZT209R	2CPX010885R9999
12	8	2		TZT212	2CPX010866R9999
		3		TZT312	2CPX010873R9999
		4*	Left door	TZT212L	2CPX010886R9999
			Right door	TZT212R	2CPX010887R9999
		5*	Left door	TZT312L	2CPX010894R9999
			Right door	TZT212R	2CPX010887R9999
		6*	Left door	TZT312L	2CPX010894R9999
			Right door	TZT312R	2CPX010895R9999

*Double doors field width 4 and over

TwinLine N accessories

Touch protection



TZP306

Height		Width	Touch protection not mounted		Touch protection Installed in the cabinet*	
RE	BH	FB	Type	Order code	Type	Order code
4	0	1	TZP104	2CPX010625R9999	TZP104A	2CPX010708R9999
		2	TZP204	2CPX010632R9999	TZP204A	2CPX010715R9999
		3	TZP304	2CPX010639R9999	TZP304A	2CPX010722R9999
		4	TZP404	2CPX010646R9999	TZP404A	2CPX010729R9999
		5	TZP504	2CPX010653R9999	TZP504A	2CPX010736R9999
5	1	1	TZP105	2CPX010626R9999	TZP105A	2CPX010709R9999
		2	TZP205	2CPX010633R9999	TZP205A	2CPX010716R9999
		3	TZP305	2CPX010640R9999	TZP305A	2CPX010723R9999
		4	TZP405	2CPX010647R9999	TZP405A	2CPX010730R9999
		5	TZP505	2CPX010654R9999	TZP505A	2CPX010737R9999
6	2	1	TZP106	2CPX010627R9999	TZP106A	2CPX010710R9999
		2	TZP206	2CPX010634R9999	TZP206A	2CPX010717R9999
		3	TZP306	2CPX010641R9999	TZP306A	2CPX010724R9999
		4	TZP406	2CPX010648R9999	TZP406A	2CPX010731R9999
		5	TZP506	2CPX010655R9999	TZP506A	2CPX010738R9999
7	3	1	TZP107	2CPX010628R9999	TZP107A	2CPX010711R9999
		2	TZP207	2CPX010635R9999	TZP207A	2CPX010718R9999
		3	TZP307	2CPX010642R9999	TZP307A	2CPX010725R9999
		4	TZP407	2CPX010649R9999	TZP407A	2CPX010732R9999
		5	TZP507	2CPX010656R9999	TZP507A	2CPX010739R9999
8	4	1	TZP108	2CPX010629R9999	TZP108A	2CPX010712R9999
		2	TZP208	2CPX010636R9999	TZP208A	2CPX010719R9999
		3	TZP308	2CPX010643R9999	TZP308A	2CPX010726R9999
		4	TZP408	2CPX010650R9999	TZP408A	2CPX010733R9999
		5	TZP508	2CPX010657R9999	TZP508A	2CPX010740R9999
9	5	1	TZP109	2CPX010630R9999	TZP109A	2CPX010713R9999
		2	TZP209	2CPX010637R9999	TZP209A	2CPX010720R9999
		3	TZP309	2CPX010644R9999	TZP309A	2CPX010727R9999
		4	TZP409	2CPX010651R9999	TZP409A	2CPX010734R9999
		5	TZP509	2CPX010658R9999	TZP509A	2CPX010741R9999
12	8	1	TZP112	2CPX010631R9999	TZP112A	2CPX010714R9999
		2	TZP212	2CPX010638R9999	TZP212A	2CPX010721R9999
		3	TZP312	2CPX010645R9999	TZP312A	2CPX010728R9999
		4	TZP412	2CPX010652R9999	TZP412A	2CPX010735R9999
		5	TZP512	2CPX010659R9999	TZP512A	2CPX010742R9999
		6	TZP612	2CPX010660R9999	TZP612A	2CPX010743R9999

* Only in conjunction with the factory-installed meter and distributor fields, combination kits or CombiLine modules
> The touch protection in the insulated cabinet is included in the scope of delivery

TwinLine N accessories

Mounting plates, sheet steel 2 mm, galvanized



TZM306

Height		Width	Mounting plate not mounted		Mounting plate mounted in the cabinet*[1]	
RE	**BH**	**FB**	**Type**	**Order code**	**Type**	**Order code**
4	0	1	TZM104	2CPX010591R9999	TZM104A	2CPX010744R9999
		2	TZM204	2CPX010598R9999	TZM204A	2CPX010750R9999
		3	TZM304	2CPX010605R9999	TZM304A	2CPX010756R9999
		4	TZM404	2CPX010612R9999	TZM404A	2CPX010762R9999
		5	TZM504	2CPX010619R9999	TZM504A	2CPX010768R9999
5	1	1	TZM105	2CPX010592R9999	TZM105A	2CPX010745R9999
		2	TZM205	2CPX010599R9999	TZM205A	2CPX010751R9999
		3	TZM305	2CPX010606R9999	TZM305A	2CPX010757R9999
		4	TZM405	2CPX010613R9999	TZM405A	2CPX010763R9999
		5	TZM505	2CPX010620R9999	TZM505A	2CPX010769R9999
6	2	1	TZM106	2CPX010593R9999	TZM106A	2CPX010746R9999
		2	TZM206	2CPX010600R9999	TZM206A	2CPX010752R9999
		3	TZM306	2CPX010607R9999	TZM306A	2CPX010758R9999
		4	TZM406	2CPX010614R9999	TZM406A	2CPX010764R9999
		5	TZM506	2CPX010621R9999	TZM506A	2CPX010770R9999
7	3	1	TZM107	2CPX010594R9999	TZM107A	2CPX010747R9999
		2	TZM207	2CPX010601R9999	TZM207A	2CPX010753R9999
		3	TZM307	2CPX010608R9999	TZM307A	2CPX010759R9999
		4	TZM407	2CPX010615R9999	TZM407A	2CPX010765R9999
		5	TZM507	2CPX010622R9999	TZM507A	2CPX010771R9999
8	4	1	TZM108	2CPX010595R9999	TZM108A	2CPX010748R9999
		2	TZM208	2CPX010602R9999	TZM208A	2CPX010754R9999
		3	TZM308	2CPX010609R9999	TZM308A	2CPX010760R9999
		4	TZM408	2CPX010616R9999	TZM408A	2CPX010766R9999
		5	TZM508	2CPX010623R9999	TZM508A	2CPX010772R9999
9	5	1	TZM109	2CPX010596R9999	TZM109A	2CPX010749R9999
		2	TZM209	2CPX010603R9999	TZM209A	2CPX010755R9999
		3	TZM309	2CPX010610R9999	TZM309A	2CPX010761R9999
		4	TZM409	2CPX010617R9999	TZM409A	2CPX010767R9999
		5	TZM509	2CPX010624R9999	TZM509A	2CPX010773R9999
12	8	1	TZM112	2CPX010940R9999	TZM112A	2CPX010944R9999
		2	TZM212	2CPX010941R9999	TZM212A	2CPX010945R9999
		3	TZM312	2CPX010942R9999	TZM312A	2CPX010946R9999
		4	TZM412	2CPX010943R9999	TZM412A	2CPX010947R9999
		5*	TZM212	2CPX010941R9999	TZM212A	2CPX010945R9999
			TZM312	2CPX010942R9999	TZM312A	2CPX010946R9999
		6*	TZM312	2CPX010942R9999	TZM312A	2CPX010946R9999
			TZM312	2CPX010942R9999	TZM312A	2CPX010946R9999

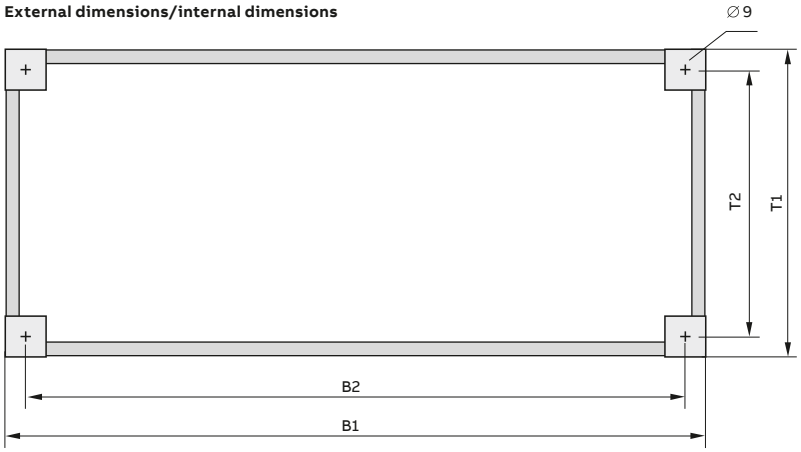
* In a cabinet with field width 5 and above, two separate mounting plates

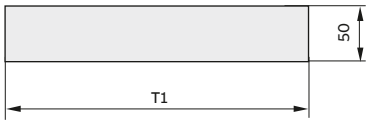
*[1] Mounting plate installed at the factory, only in conjunction with empty cabinet

TwinLine N accessories

Dimensions and weight – base, height 50 mm

External dimensions/internal dimensions





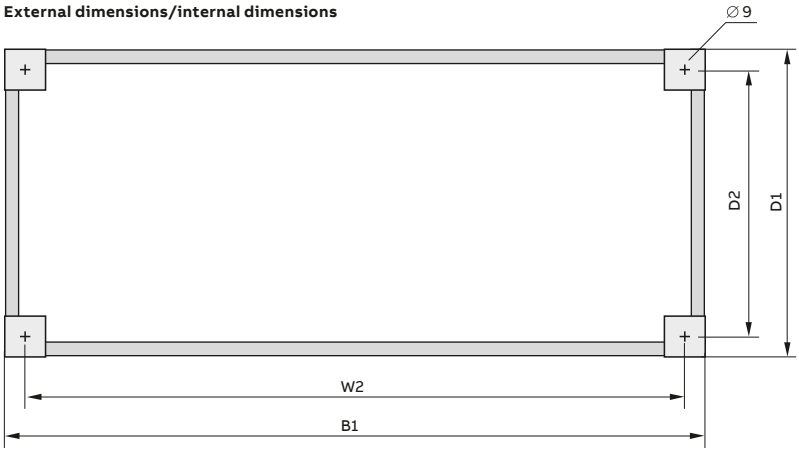
		Width		External dimensions Width x depth		Internal dimensions Width x depth		Weight
Height	Depth	FB	Type	B1	D1	W2	D2	in kg
TwinLine-G, base 50 mm								
50	225	1	TZG105	300	203.50	270	173.50	1.37
		2	TZG205	550	203.50	520	173.50	1.91
		3	TZG305	800	203.50	770	173.50	2.41
		4	TZG405	1050	203.50	1020	173.50	2.93
		5	TZG505	1300	203.50	1270	173.50	3.44
TwinLine-L, base 50 mm								
50	275	1	TZL105	300	253.50	270	223.50	1.49
		2	TZL205	550	253.50	520	223.50	2.03
		3	TZL305	800	253.50	770	223.50	2.54
		4	TZL405	1050	253.50	1020	223.50	3.34
		5	TZL505	1300	253.50	1270	223.50	5.78
TwinLine-W, base 50 mm								
50	350	1	TZW105	300	328.50	270	298.50	1.67
		2	TZW205	550	328.50	520	298.50	2.21
		3	TZW305	800	328.50	770	298.50	2.72
		4	TZW405	1050	328.50	1020	298.50	5.03
		5	TZW505	1300	328.50	1270	298.50	5.97
		6	TZW605	1550	328.50	1520	298.50	6.90
TwinLine-X, base 50 mm								
50	400	2	TZX205	550	378,5	520	348,5	2.3
		3	TZX305	800	378,5	770	348,5	2.8
		4	TZX405	1050	378,5	1020	348,5	5.1

> Dimensions in mm

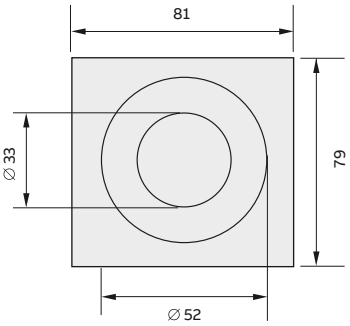
TwinLine N accessories

Dimensions and weight – base, height 100 mm

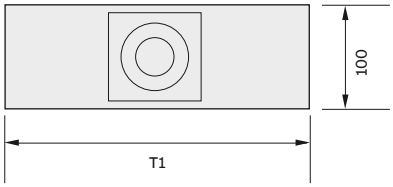
External dimensions/internal dimensions



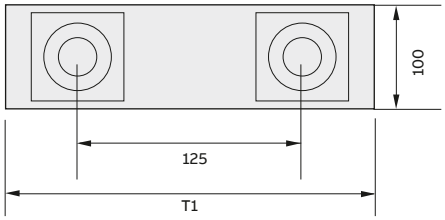
Detail view for side knock-outs



View of side knock-outs TwinLine-G and -L



View of side knock-outs TwinLine-W and -X



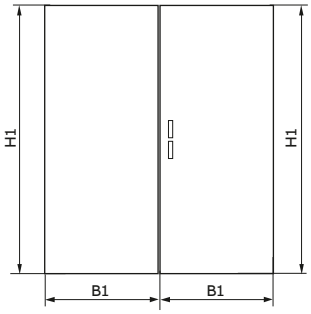
Height	Depth	Width FB	Type	External dimensions Width x depth B1	D1	Internal dimensions Width x depth W2	D2	Weight in kg
TwinLine-G, base 100 mm								
100	225	1	TZG110	300	203.50	270	173.50	2.22
		2	TZG210	550	203.50	520	173.50	3.06
		3	TZG310	800	203.50	770	173.50	3.87
		4	TZG410	1050	203.50	1020	173.50	4.67
		5	TZG510	1300	204.50	1270	173.50	5.47
TwinLine-L, base 100 mm								
100	275	1	TZL110	300	253.50	270	223.50	2.41
		2	TZL210	550	253.50	520	223.50	3.24
		3	TZL310	800	253.50	770	223.50	4.05
		4	TZL410	1050	253.50	1020	223.50	6.71
		5	TZL510	1300	254.50	1270	223.50	7.95
TwinLine-W, base 100 mm								
100	350	1	TZW110	300	328.50	270	298.50	2.68
		2	TZW210	550	328.50	520	298.50	3.52
		3	TZW310	800	328.50	770	298.50	4.32
		4	TZW410	1050	328.50	1020	298.50	6.98
		5	TZW510	1300	329.50	1270	298.50	8.22
		6	TZW610	1550	329.50	1520	298.50	9.45
TwinLine-X, base 100 mm								
100	400	2	TZX210	550	378.5	520	348.5	3.7
		3	TZX310	800	378.5	770	348.5	4.4
		4	TZX410	1050	378.5	1020	348.5	7.0

> Dimensions in mm

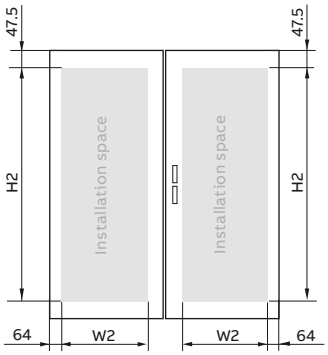
TwinLine N accessories

Dimensions and weights - doors, height 4 to 7 RE

External dimensions
Cabinets with field width 4 and over
Double doors



Usable installation space
Cabinets with field width 4 and over
Double doors



Height		Width			External dimensions Height x width		Installation space Height x width		Weight
RE	BH	FB	Type	Remark	H1	B1	H2	W2	in kg
TwinLine wall cabinets, doors									
4	0	1	TZB104		643	289	548	123	5.46
		2	TZB204		643	539	548	373	7.75
		3	TZB304		643	789	548	623	10.11
		4*1	TZB204L	Left door	643	526 *2	548	373	7.77
			TZB204R	Right door	643	539	548	373	7.78
		5*1	TZB304L	Left door	643	776 *2	548	623	10.11
			TZB204R	Right door	643	539	548	373	7.78
5	1	1	TZB105		793	289	698	123	6.27
		2	TZB205		793	539	698	373	9.05
		3	TZB305		793	789	698	623	11.85
		4*1	TZB205L	Left door	793	526 *2	698	373	9.10
			TZB205R	Right door	793	539	698	373	9.05
		5*1	TZB305L	Left door	793	776 *2	698	623	11.89
			TZB205R	Right door	793	539	698	373	9.05
6	2	1	TZB106		943	289	848	123	7.03
		2	TZB206		943	539	848	373	10.32
		3	TZB306		943	789	848	623	13.58
		4*1	TZB206L	Left door	943	526 *2	848	373	10.41
			TZB206R	Right door	943	539	848	373	10.32
		5*1	TZB306L	Left door	943	776 *2	848	623	13.68
			TZB206R	Right door	943	539	848	373	10.32
7	3	1	TZB107		1093	289	998	123	7.94
		2	TZB207		1093	539	998	373	11.69
		3	TZB307		1093	789	998	623	15.42
		4*1	TZB207L	Left door	1093	526 *2	998	373	11.85
			TZB207R	Right door	1093	539	998	373	11.69
		5*1	TZB307L	Left door	1093	776 *2	998	623	15.57
			TZB207R	Right door	1093	539	998	373	11.69

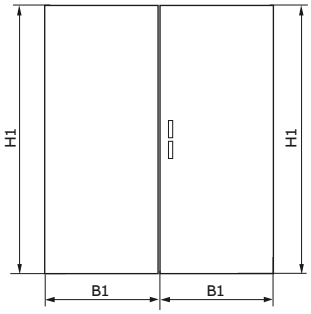
*1 Double doors field width 4 and over
*2 Dimensions including door center bar

> Dimensions in mm

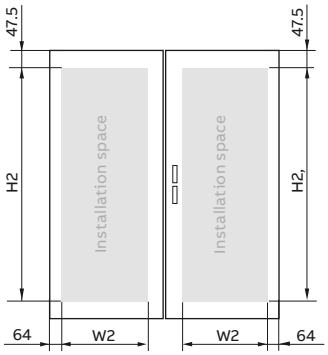
TwinLine N accessories

Dimensions and weights – doors, height 8 to 12 RE

External dimensions
Cabinets with field width 4 and over
Double doors



Usable installation space
Cabinets with field width 4 and over
Double doors



Height		Width			External dimensions Height x width		Installation space Height x width		Weight	Max. installation weight
RE	**BH**	**FB**	**Type**	**Remark**	**H1**	**B1**	**H2**	**W2**	**in kg**	**in kg**
TwinLine wall cabinets, doors										
8	4	1	TZB108		1243	289	1148	123	8.75	5.00
		2	TZB208		1243	539	1148	373	12.96	5.00
		3	TZB308		1243	789	1148	623	17.15	7.50
		4*	TZB208L	Left door	1243	526 *2	1148	373	13.17	5.00
			TZB208R	Right door	1243	539	1148	373	12.96	5.00
		5*	TZB308L	Left door	1243	776 *2	1148	623	17.36	7.50
			TZB208R	Right door	1243	539	1148	373	12.96	5.00
9	5	1	TZB109		1393	289	1298	123	9.55	5.00
		2	TZB209		1393	539	1298	373	14.23	5.00
		3	TZB309		1393	789	1298	623	18.88	7.50
		4*	TZB209L	Left door	1393	526 *2	1298	373	14.49	5.00
			TZB209R	Right door	1393	539	1298	373	14.23	5.00
		5*	TZB309L	Left door	1393	776 *2	1298	623	19.14	7.50
			TZB209R	Right door	1393	539	1298	373	14.23	5.00
TwinLine standing cabinets, doors										
12	8	1	TZB112		1843	289	1748	123	11.96	5.00
		2	TZB212		1843	539	1748	373	18.07	5.00
		3	TZB312		1843	789	1748	623	24.08	7.50
		4*	TZB212L	Left door	1843	526 *2	1748	373	18.45	5.00
			TZB212R	Right door	1843	539	1748	373	18.03	5.00
		5*	TZB312L	Left door	1843	776 *2	1748	623	24.49	7.50
			TZB212R	Right door	1843	539	1748	373	18.03	5.00
		6*	TZB312L	Left door	1843	776 *2	1748	623	24.49	7.50
			TZB312R	Right door	1843	789	1748	623	24.08	7.50

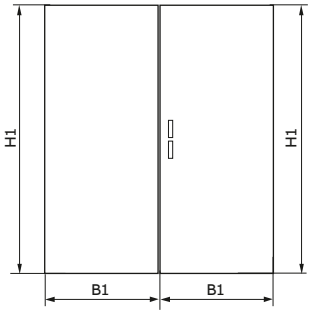
* Double doors field width 4 and over
*2 Dimensions including door center bar

> Dimensions in mm

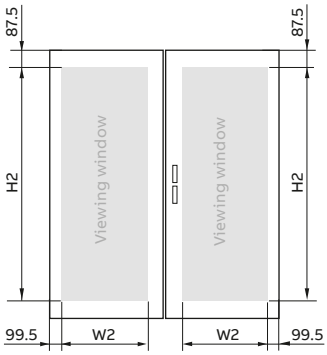
TwinLine N accessories

Dimensions and weights – doors with viewing window, height 4 to 7 RE

External dimensions
Cabinets with field width 4 and over
Double doors



Dimensions of field of view
Cabinets with field width 4 and over
Double doors



Height		Width			External dimensions Height x width		Field of view Height x width		Weight
RE	BH	FB	Type	Remark	H1	B1	H2	W2	in kg
TwinLine wall cabinets, doors									
4	0	2	TZT204		643	539	468	340	6.40
		3	TZT304		643	789	468	590	8.70
		4*1	TZT204L	Left door	643	526 *2	468	340	6.50
			TZT204R	Right door	643	539	468	340	6.50
		5*1	TZT304L	Left door	643	776 *2	468	590	8.40
			TZT204R	Right door	643	539	468	340	6.50
5	1	2	TZT205		793	539	618	340	7.60
		3	TZT305		793	789	618	590	10.20
		4*1	TZT205L	Left door	793	526 *2	618	340	7.40
			TZT205R	Right door	793	539	618	340	7.50
		5*1	TZT305L	Left door	793	776 *2	618	590	9.90
			TZT205R	Right door	793	539	618	340	7.50
6	2	2	TZT206		943	539	768	340	8.70
		3	TZT306		943	789	768	590	11.50
		4*1	TZT206L	Left door	943	526 *2	768	340	8.50
			TZT206R	Right door	943	539	768	340	8.60
		5*1	TZT306L	Left door	943	776 *2	768	590	11.40
			TZT206R	Right door	943	539	768	340	8.60
7	3	2	TZT207		1093	539	918	340	10.00
		3	TZT307		1093	789	918	590	13.00
		4*1	TZT207L	Left door	1093	526 *2	918	340	9.70
			TZT207R	Right door	1093	539	918	340	9.80
		5*1	TZT307L	Left door	1093	776 *2	918	590	13.00
			TZT207R	Right door	1093	539	918	340	9.80

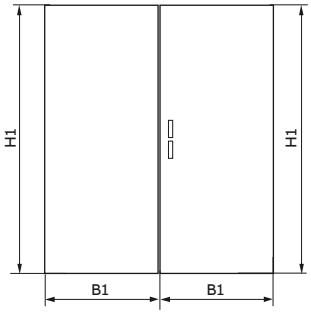
*1 Double doors field width 4 and over
*2 Dimensions including door center bar

> Dimensions in mm

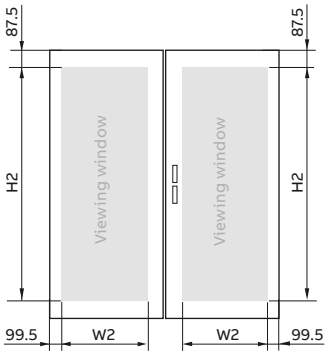
TwinLine N accessories

Dimensions and weights - doors with viewing window, height 8 to 12 RE

External dimensions
Cabinets with field width 4 and over
Double doors



Dimensions of field of view
Cabinets with field width 4 and over
Double doors



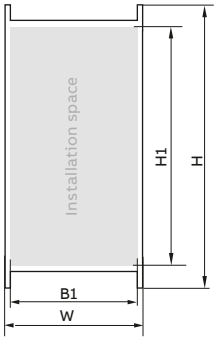
Height		Width			External dimensions Height x width		Field of view Height x width		Weight
RE	BH	FB	Type	Remark	H1	B1	H2	W2	in kg
TwinLine wall cabinets, doors									
8	4	2	TZT208		1243	539	1068	340	11.10
		3	TZT308		1243	789	1068	590	14.60
		4*	TZT208L	Left door	1243	526 *2	1068	340	10.90
			TZT208R	Right door	1243	539	1068	340	11.10
		5*	TZT308L	Left door	1243	776 *2	1068	590	14.60
			TZT208R	Right door	1243	539	1068	340	11.10
9	5	2	TZT209		1393	539	1218	340	12.20
		3	TZT309		1393	789	1218	590	16.10
		4*	TZT209L	Left door	1393	526 *2	1218	340	12.00
			TZT209R	Right door	1393	539	1218	340	11.50
		5*	TZT309L	Left door	1393	776 *2	1218	590	16.00
			TZT209R	Right door	1393	539	1218	340	11.50
TwinLine standing cabinets, doors									
12	8	2	TZT212		1843	539	1668	340	15.60
		3	TZT312		1843	789	1668	590	20.70
		4*	TZT212L	Left door	1843	526 *2	1668	340	15.60
			TZT212R	Right door	1843	539	1668	340	15.40
		5*	TZT312L	Left door	1843	776 *2	1668	590	20.70
			TZT212R	Right door	1843	539	1668	340	15.40
		6*	TZT312L	Left door	1843	776 *2	1668	590	20.70
			TZT312R	Right door	1843	789	1668	590	19.90

* Double doors field width 4 and over
*2 Dimensions including door center bar

TwinLine N accessories

Dimensions and weights – mounting plates

External dimensions/usable installation space
Mounting plate



Height		Width		External dimensions		Installation space		Weight
RE	BH	FB	Type	H	W	H1	B1	in kg
Mounting plates for TwinLine wall cabinets ⏚								
4	0	1	TZM104	600	246	522	160	3.51
		2	TZM204	600	496	522	410	5.79
		3	TZM304	600	746	522	660	8.07
		4	TZM404	600	996	522	910	10.35
		5	TZM504	600	1246	522	1160	12.62
5	1	1	TZM105	750	246	672	160	4.43
		2	TZM205	750	496	672	410	7.30
		3	TZM305	750	746	672	660	10.17
		4	TZM405	750	996	672	910	13.03
		5	TZM505	750	1246	672	1160	15.90
6	2	1	TZM106	900	246	822	160	5.35
		2	TZM206	900	496	822	410	8.80
		3	TZM306	900	746	822	660	12.26
		4	TZM406	900	996	822	910	15.72
		5	TZM506	900	1246	822	1160	19.20
7	3	1	TZM107	1050	246	972	160	6.26
		2	TZM207	1050	496	972	410	10.31
		3	TZM307	1050	746	972	660	14.36
		4	TZM407	1050	996	972	910	18.40
		5	TZM507	1050	1246	972	1160	22.45
8	4	1	TZM108	1200	246	1122	160	7.18
		2	TZM208	1200	496	1122	410	11.82
		3	TZM308	1200	746	1122	660	16.45
		4	TZM408	1200	996	1122	910	21.09
		5	TZM508	1200	1246	1122	1160	25.72
9	5	1	TZM109	1350	246	1272	160	8.10
		2	TZM209	1350	496	1272	410	13.33
		3	TZM309	1350	746	1272	660	18.55
		4	TZM409	1350	996	1272	910	23.77
		5	TZM509	1350	1246	1272	1160	29.00
Mounting plates for TwinLine standing cabinets ⏚								
12	8	1	TZM112	1800	246	1722	160	10.80
		2	TZM212	1800	496	1722	410	17.80
		3	TZM312	1800	746	1722	660	21.00
		4	TZM412	1800	996	1722	910	31.80

> Dimensions in mm

TwinLine N accessories

Meter applications



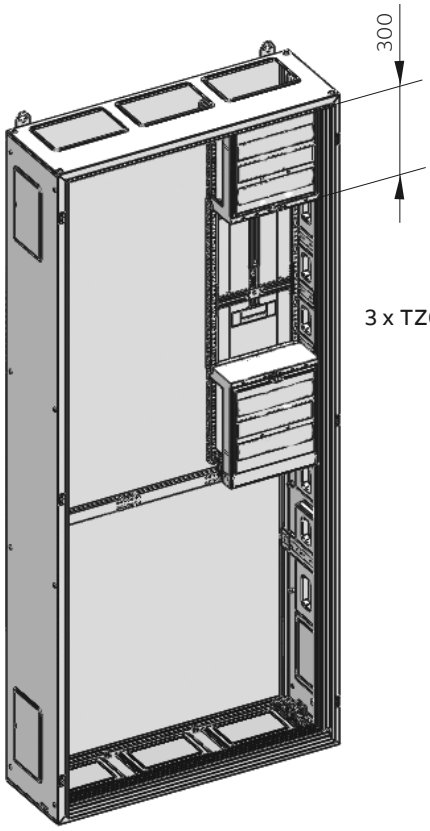
TZ610

Inner cladding TZ610
For meter fields, depth = 225 - 350 mm
Additional profile for meter fields with 150 mm connection compartment in the insulated cabinet

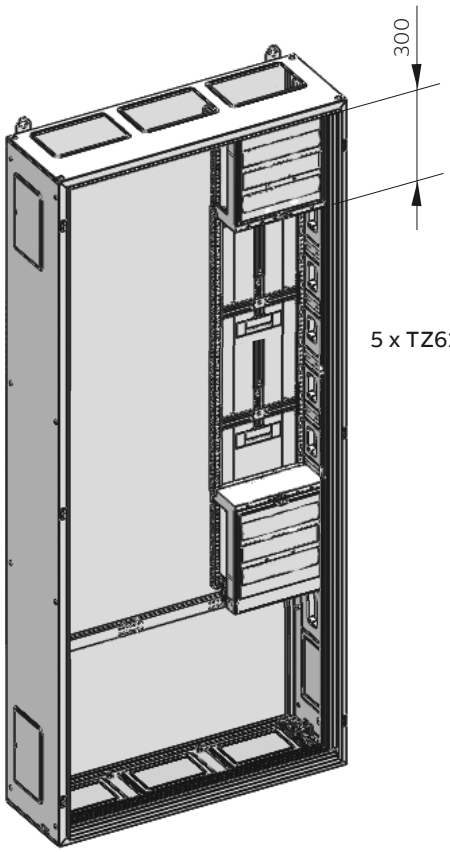


TZ614

Cover strip TZ612-614
Required for installation of meter fields in insulated cabinets for compliance with protection class IPXXB in the area of unnecessary fastening points for the middle support rail



3 x TZ612-614



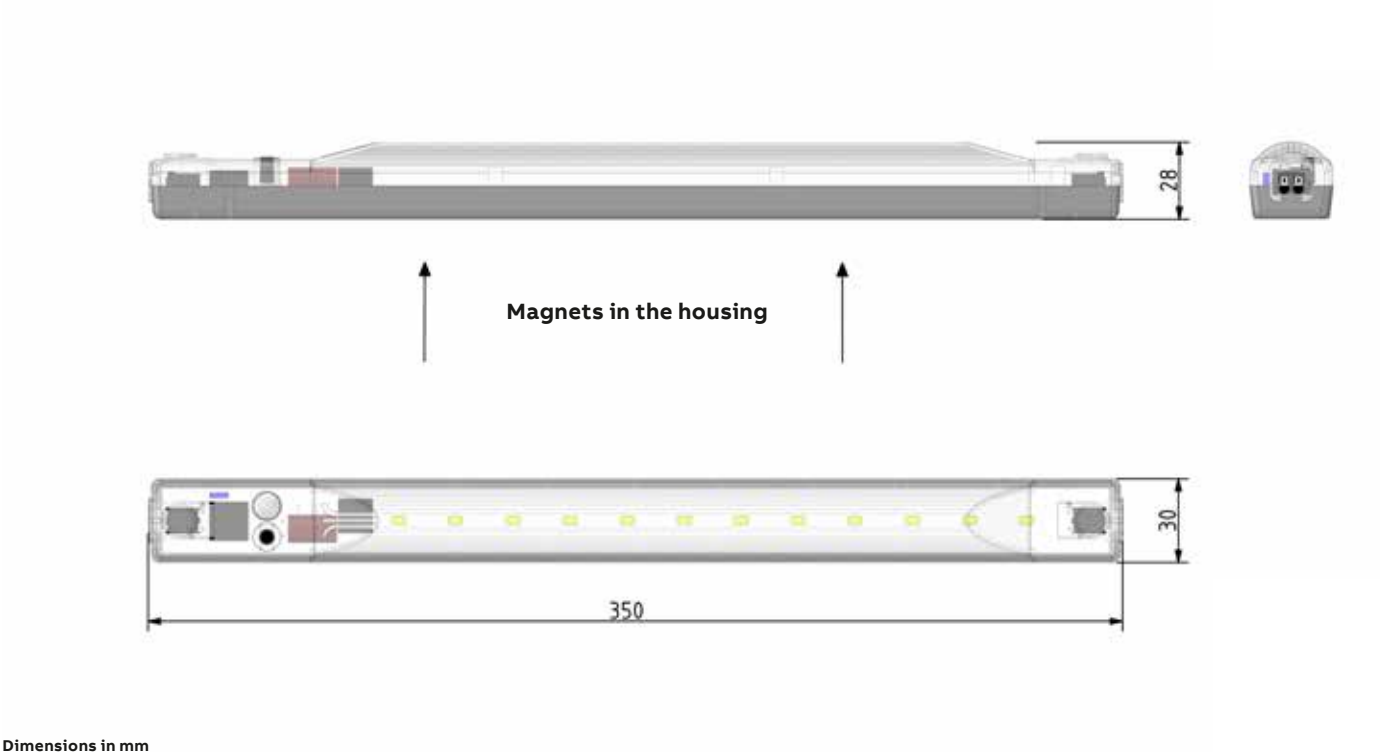
5 x TZ612-614

> Dimensions in mm

TwinLine N accessories

LED control cabinet lights TZ650

Technical specifications	
Operating voltage	24 V – 265 V AC / DC
Power consumption	6 W
Light output	700 lm
Lighting level	1200 lx, 0.5 m 450 lx, 1.0 m
Color temperature	5,000 K
Degree of protection	IP 20
Protection class	II
Lifetime (std. at 20 °C)	50,000 h
Terminal	Push-in connector
Housing material	Polycarbonate
Weight	140 g
Max. humidity [% rH]	90 %
Operating temperature [° C]	- 20 °C to + 60 °C
Ambient temperature (storage)	- 40 °C to + 85 °C
Approvals	CE



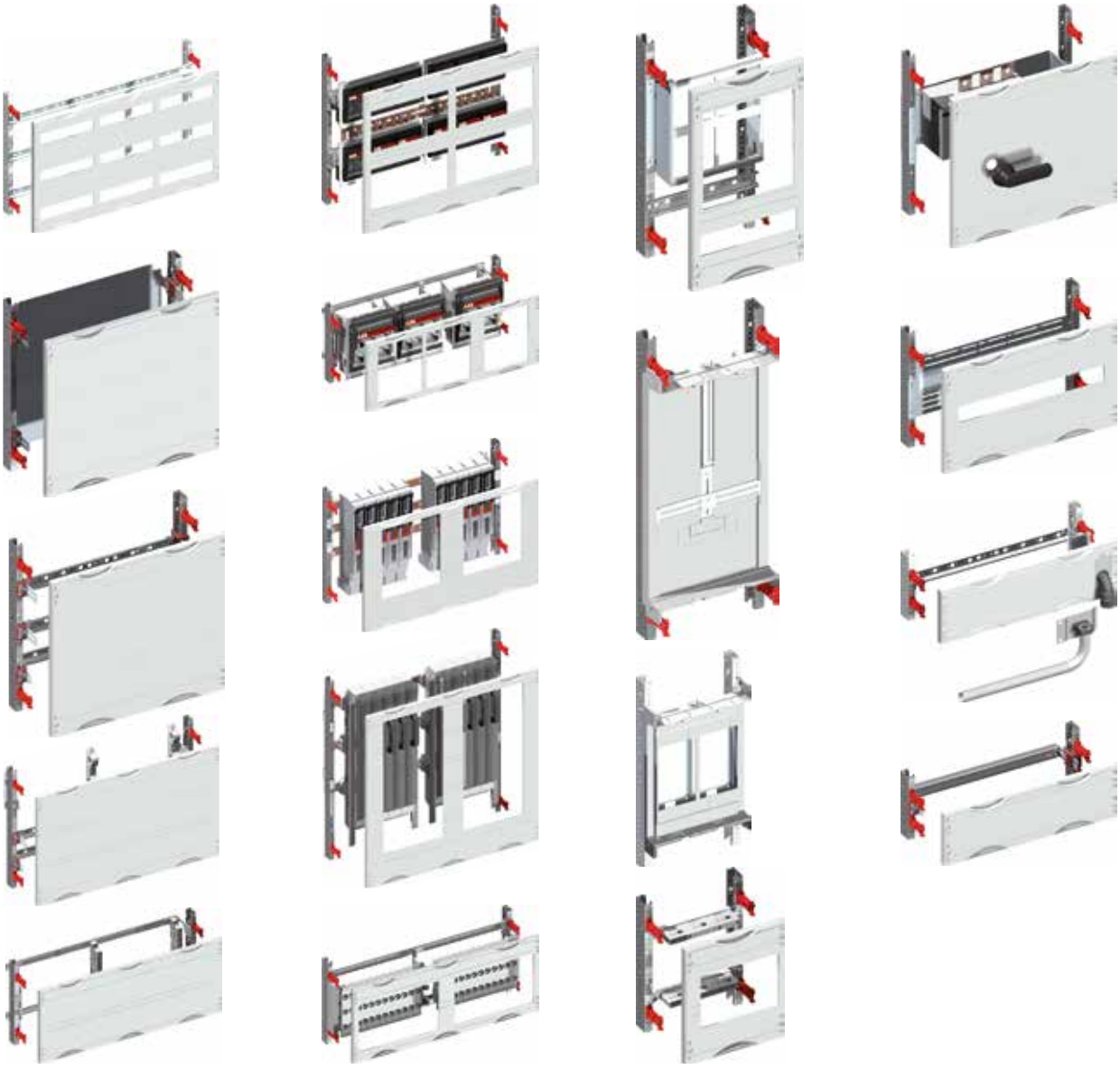
Dimensions in mm

Notes

Interior expansion system CombiLine N

The right module for every type of application





Interior expansion system CombiLine N

Expansion with EDF or WR mounting frame



Empty cabinets for expansion with EDF mounting frame

Small distributor
UL and AL ⧈

Wall-mounted cabinets
U and A ⧈, B⏚
TwinLine-G, TwinLine-L and TwinLine-W ⏚⧈

Standalone cabinets
TwinLine-H ⧈ ⏚
TwinLine-G, TwinLine-L and TwinLine-W ⏚⧈

Series switching cabinets
TriLine®, System pro *E* power ⏚

Fire protection housing
UF, AF and SF ⏚

Empty cabinets for expansion with WR mounting frame

Wall-mounted cabinets
TwinLine-G, TwinLine-L and TwinLine-W ⏚⧈

Standalone cabinets
TwinLine-G, TwinLine-L and TwinLine-W ⏚⧈

Series switching cabinets
TriLine®, System pro *E* power ⏚



EDF mounting frame up to 400 A

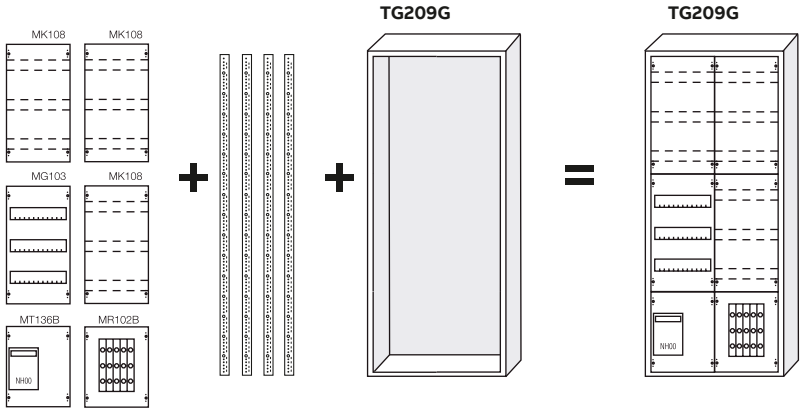


WR mounting frame up to 850 A

Interior expansion system CombiLine N

Possible applications with EDF mounting frame

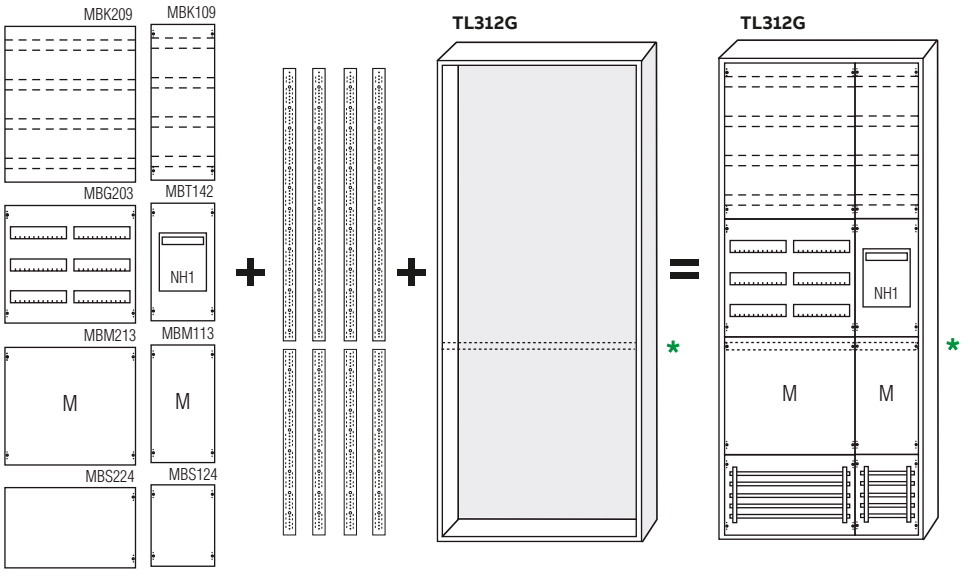
Small distributor of the UL series, AL/wall-mounted cabinets of the series U, A and TwinLine-G, -L and -W
Fire protection housing of the series UF, AF
Example: Expansion with modules (mounted) on EDF mounting frame in the TwinLine-G wall-mounted cabinet



Modules (mounted) + EDF mounting frame + empty cabinet = wall-mounted distributor

Delivery form
Modules are delivered ex works assembled on the EDF mounting frame (installed in the cabinet).

Standalone cabinets of the series TwinLine-H as well as TwinLine-G, -L and -W
Series switching cabinets of the series TriLine®, pro *E* power system/fire protection housing of the series SF
Example: Expansion with modules (unassembled as a kit) and EDF mounting frame in the TwinLine-L standalone cabinet



+ 5 pcs. ZX1001 copper rail
+ 5 pcs. ZX1002 copper rail

Modules (kit) + EDF mounting frame + empty cabinet = standalone distributor

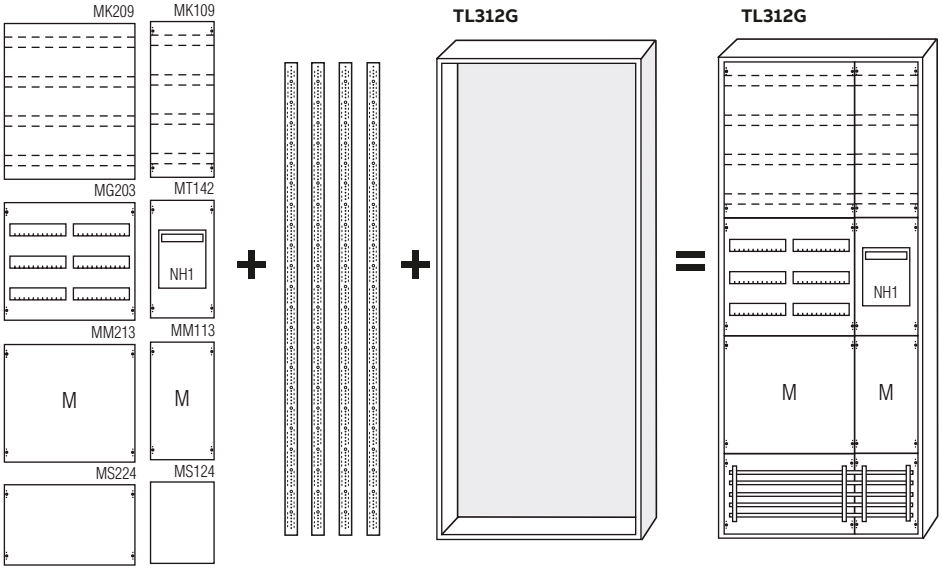
Delivery form
Kits, EDF profiles, copper rails and empty cabinet are each delivered packaged individually.

* The EDF mounting frame may not exceed a maximum height of 1350 mm (installation height 5) at once. For structural reasons in standalone cabinets (prepared for EDF mounting frame), that is why a central supporting rail is mounted ex works, which can be moved up and down in the grid 150 mm.

Interior expansion system CombiLine N

Possible applications with WR mounting frame

Standalone cabinets of the series TwinLine/series switching cabinets of the series TriLine®, System pro *E* power
Example: Expansion with modules (mounted) on WR mounting frame in the TwinLine- L standalone cabinet



+ 5 pcs. ZXM1003 copper rail

Modules (mounted) + WR mounting frame + empty cabinet = standalone distributor

Delivery form
Modules are delivered ex works assembled on the WR mounting frame and installed in the cabinet.

Interior expansion system CombiLine N

The three delivery forms

The interior expansion of modular cabinet series can be effortlessly mastered with the perfectly sophisticated quick-assembly system from ABB STRIEBEL & JOHN. Easy, quick and safe – these are the system's three product properties that speak for themselves. You choose which delivery form is right for you: Choose the complete delivery if you would like to have the modules installed in the empty cabinet ex works, the kit with instructions for assembly in order to set up the modules yourself on the mounting frame or the delivery with individual parts.

Complete delivery
The module system panel is completely assembled on the mounting frame with all modules and is delivered installed in the distributor cabinet. The mounting frame must be ordered separately.

Advantage: From the list of CombiLine N modules, you chose the modules that are tailored to your object, thereby getting the correct low-voltage distribution in the easiest way. The module control panel you have thus planned is delivered installed in the cabinet ex works. This way you do not have to spend time looking for system accessories, such as angle brackets, screws or retaining elements. All you need to do is choose the appropriate mounting frame. Our selection StriePlan can take care of this if desired.

Delivery as a kit
All of the individual parts required to assemble a module are delivered individually packaged as a kit with instructions for assembly. All you need to do is choose the appropriate mounting frame. The mounting frame must be ordered separately. Our software StriePlan will take care of choosing the mounting frame if desired.

Advantage: The kits allow you to be flexible when it comes to warehousing. You do not have to spend time looking for system accessories, such as angle brackets, screws or retaining elements. The enclosed instructions make assembly a breeze. Software support from StriePlan makes planning and calculation perfectly quick and clear.

Delivery in individual parts
The desired expansion parts are purchased individually in order to set up, expand or convert a module on your own.

Advantage: With a manageable number of individual parts, if necessary you can remain quick and flexible when it comes to setting up, expanding or converting distribution.



Complete delivery



Delivery as a kit



Delivery in individual parts

Interior expansion system CombiLine N

Technical specifications

Standards/provisions	
DIN EN 61439-1/-2/-3 (VDE 0660-600-1/-2/-3)*1	X
DIN 43880 (rail-mounted devices)	X
Protection class	IP2XC

Electrical characteristics			
Rated impulse withstand voltage (U_{imp})	6 kV		
Overvoltage category	III		
Degree of contamination	3		
Protection class	I/II		
Rated current of the switchgear combination (I_{nA})	bis 850 A		
	Rail-mounted devices DIN 43880	NH-fuse switch disconnector	Busbar systems
Rated impulse withstand voltage (I_{pk})	25 kA	to 52 kA	to 74 kA
Rated short-time withstand current (I_{cw})	12.5 kA	to 25 kA	to 35 kA
	-	Values by request	see the chapter Busbar systems
Rated frequency (f)	50 Hz		
Rated insulation voltage (U_i)	690 V AC		
Rated operating voltage (U_e)	400 V AC		

*1 The permissible heating for switchgear combinations (SK) up to 630 A rated current can be verified using the procedure according to 10.10.4.2. The required power dissipation capacities can be found in the tables of the respective cabinet series. Above 630 A rated current, the procedure according to 10.10.4.3 (DIN EN 61439-1 supplementary sheet 2, DIN VDE 0660-600-1 supplementary sheet 2) must be applied

Interior expansion system CombiLine N

Rail-mounted devices row spacing 125 mm/150 mm



MG303



MG433

- Expansion with DIN rails 35 x 15 mm
- DIN rails with field width 3 and over, with additional stabilization rail
- For installation devices according to DIN 43880
- The mounting frame must be ordered separately

Height		Width					From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
Row spacing 125 mm											
1	150	1	250	12	●	●	120	MBG101	2CPX041650R9999	MG101	2CPX041200R9999
		2	500	24	●	●	120	MBG201	2CPX041651R9999	MG201	2CPX041201R9999
		3	750	36	●	●	120	MBG301	2CPX041652R9999	MG301	2CPX041202R9999
2	300	1	250	24	●	●	120	MBG102	2CPX041653R9999	MG102	2CPX041203R9999
		2	500	48	●	●	120	MBG202	2CPX041655R9999	MG202	2CPX041205R9999
		3	750	72	●	●	120	MBG302	2CPX041657R9999	MG302	2CPX041207R9999
3	450	1	250	36	●	●	120	MBG103	2CPX041659R9999	MG103	2CPX041209R9999
		2	500	72	●	●	120	MBG203	2CPX041661R9999	MG203	2CPX041211R9999
		3	750	108	●	●	120	MBG303	2CPX041663R9999	MG303	2CPX041213R9999
4	600	1	250	48	●	●	120	MBG104	2CPX041665R9999	MG104	2CPX041215R9999
		2	500	96	●	●	120	MBG204	2CPX041667R9999	MG204	2CPX041217R9999
		3	750	144	●	●	120	MBG304	2CPX041669R9999	MG304	2CPX041219R9999
5	750	1	250	60	●	●	120	MBG105	2CPX041671R9999	MG105	2CPX041221R9999
		2	500	120	●	●	120	MBG205	2CPX041673R9999	MG205	2CPX041223R9999
		3	750	180	●	●	120	MBG305	2CPX041675R9999	MG305	2CPX041225R9999
Row spacing 150 mm											
1	150	1	250	12	●	●	120	MBG101	2CPX041650R9999	MG101	2CPX041200R9999
		2	500	24	●	●	120	MBG201	2CPX041651R9999	MG201	2CPX041201R9999
		3	750	36	●	●	120	MBG301	2CPX041652R9999	MG301	2CPX041202R9999
2	300	1	250	24	●	●	120	MBG412	2CPX041654R9999	MG412	2CPX041204R9999
		2	500	48	●	●	120	MBG422	2CPX041656R9999	MG422	2CPX041206R9999
		3	750	72	●	●	120	MBG432	2CPX041658R9999	MG432	2CPX041208R9999
3	450	1	250	36	●	●	120	MBG413	2CPX041660R9999	MG413	2CPX041210R9999
		2	500	72	●	●	120	MBG423	2CPX041662R9999	MG423	2CPX041212R9999
		3	750	108	●	●	120	MBG433	2CPX041664R9999	MG433	2CPX041214R9999
4	600	1	250	48	●	●	120	MBG414	2CPX041666R9999	MG414	2CPX041216R9999
		2	500	96	●	●	120	MBG424	2CPX041668R9999	MG424	2CPX041218R9999
		3	750	144	●	●	120	MBG434	2CPX041670R9999	MG434	2CPX041220R9999
5	750	1	250	60	●	●	120	MBG415	2CPX041672R9999	MG415	2CPX041222R9999
		2	500	120	●	●	120	MBG425	2CPX041674R9999	MG425	2CPX041224R9999
		3	750	180	●	●	120	MBG435	2CPX041676R9999	MG435	2CPX041226R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame

Interior expansion system CombiLine N

Touch protection



MB218

- Module as touch protection or to expand with system parts
- The mounting frame must be ordered separately

Height		Width					From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
1	150	1	250	12	●	●	120	MBB116	2CPX041722R9999	MB116	2CPX041257R9999
		2	500	24	●	●	120	MBB216	2CPX041723R9999	MB216	2CPX041258R9999
		3	750	36	●	●	120	MBB316	2CPX041724R9999	MB316	2CPX041259R9999
2	300	1	250	24	●	●	120	MBB117	2CPX041725R9999	MB117	2CPX041260R9999
		2	500	48	●	●	120	MBB217	2CPX041726R9999	MB217	2CPX041261R9999
		3	750	72	●	●	120	MBB317	2CPX041727R9999	MB317	2CPX041262R9999
3	450	1	250	36	●	●	120	MBB118	2CPX041728R9999	MB118	2CPX041263R9999
		2	500	72	●	●	120	MBB218	2CPX041729R9999	MB218	2CPX041264R9999
		3	750	108	●	●	120	MBB318	2CPX041730R9999	MB318	2CPX041265R9999
4	600	1	250	48	●	●	120	MBB119	2CPX041731R9999	MB119	2CPX041266R9999
		2	500	96	●	●	120	MBB219	2CPX041732R9999	MB219	2CPX041267R9999
		3	750	144	●	●	120	MBB319	2CPX041733R9999	MB319	2CPX041268R9999
5	750	1	250	60	●	●	120	MBB120	2CPX041734R9999	MB120	2CPX041269R9999
		2	500	120	●	●	120	MBB220	2CPX041735R9999	MB220	2CPX041270R9999
		3	750	180	●	●	120	MBB320	2CPX041736R9999	MB320	2CPX041271R9999



MB200

- Touch protection cover, including cover bracket
- Covers are not in the 150 mm grid
- 2 pieces must always be used per module control panel in order to get back to a grid unit
- The mounting frame must be ordered separately

Height		Width					From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
0.5	75	1	250	6	●	●	120	MBB100	2CPX041427R9999	MB100	2CPX041422R9999
		2	500	12	●	●	120	MBB200	2CPX041428R9999	MB200	2CPX041423R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame

Interior expansion system CombiLine N

Mounting plates



MM213

- Mounting plates made of sheet steel, 2 mm
- Mounting plates that are variably adjustable in depth via the deep angle piece ZW59P2
- Usable depth from 103 mm to 158 mm
- Usable width for equipment: 1-field width 188 mm, 2-field width 438 mm, 3-field width 688 mm
- The mounting frame must be ordered separately

Height		Width					From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
1	150	1	250	12	●	●	200	MBM111	2CPX041707R9999	MM111	2CPX041242R9999
		2	500	24	●	●	200	MBM211	2CPX041708R9999	MM211	2CPX041243R9999
		3	750	36	●	●	200	MBM311	2CPX041709R9999	MM311	2CPX041244R9999
2	300	1	250	24	●	●	200	MBM112	2CPX041710R9999	MM112	2CPX041245R9999
		2	500	48	●	●	200	MBM212	2CPX041711R9999	MM212	2CPX041246R9999
		3	750	72	●	●	200	MBM312	2CPX041712R9999	MM312	2CPX041247R9999
3	450	1	250	36	●	●	200	MBM113	2CPX041713R9999	MM113	2CPX041248R9999
		2	500	72	●	●	200	MBM213	2CPX041714R9999	MM213	2CPX041249R9999
		3	750	108	●	●	200	MBM313	2CPX041715R9999	MM313	2CPX041250R9999
4	600	1	250	48	●	●	200	MBM114	2CPX041716R9999	MM114	2CPX041251R9999
		2	500	96	●	●	200	MBM214	2CPX041717R9999	MM214	2CPX041252R9999
		3	750	144	●	●	200	MBM314	2CPX041718R9999	MM314	2CPX041253R9999
5	750	1	250	60	●	●	200	MBM115	2CPX041719R9999	MM115	2CPX041254R9999
		2	500	120	●	●	200	MBM215	2CPX041720R9999	MM215	2CPX041255R9999
		3	750	180	●	●	200	MBM315	2CPX041721R9999	MM315	2CPX041256R9999



MM113K

- Mounting plates made of sheet steel, 2 mm
- Mounting plate firmly attached
- Usable depth of 82 mm
- Usable width for equipment: 1-field width 200 mm
- The mounting frame must be ordered separately

Height		Width					From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
2	300	1	250	24	●	●	120	MBM112K	2CPX041640R9999	MM112K	2CPX041117R9999
3	450	1	250	36	●	●	120	MBM113K	2CPX041641R9999	MM113K	2CPX041118R9999
4	600	1	250	48	●	●	120	MBM114K	2CPX041642R9999	MM114K	2CPX041119R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame

Interior expansion system CombiLine N

Horizontal terminal blocks



MK208

- With horizontally-arranged DIN rails 35 x 15 mm
- DIN rails variably-adjustable in depth
- Usable depth for ZW39P2 from 68 mm to 115 mm
- Usable depth for ZW59P2 from 90 mm to 145 mm
- Usable width for terminal blocks: 1-field width 188 mm, 2-field width 438 mm, 3-field width 688 mm
- Tiered delivery state
- Row spacing 150 mm (can be moved when it is needed)
- For grounded and insulated setup ⏚
- The mounting frame must be ordered separately
- **Note:** The upper DIN rail is attached with at least a shorter deep angle piece (ZW39P2)
- **Modules setup:**
  1 row: 1 X ZW39P2
  2 rows: 1 X ZW39P2, 1 X ZW59P2
  3 rows: 2 X ZW39P2, 1 X ZW59P2
  4 rows: 2 X ZW39P2, 2 X ZW59P2
  5 rows: 2 X ZW39P2, 3 X ZW59P2

Height		Width					From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
1	150	1	250	12	●	●	200	MBK106	2CPX041677R9999	MK106	2CPX041227R9999
		2	500	24	●	●	200	MBK206	2CPX041679R9999	MK206	2CPX041228R9999
		3	750	36	●	●	200	MBK306	2CPX041681R9999	MK306	2CPX041229R9999
2	300	1	250	24	●	●	200	MBK107	2CPX041683R9999	MK107	2CPX041230R9999
		2	500	48	●	●	200	MBK207	2CPX041685R9999	MK207	2CPX041231R9999
		3	750	72	●	●	200	MBK307	2CPX041687R9999	MK307	2CPX041232R9999
3	450	1	250	36	●	●	200	MBK108	2CPX041689R9999	MK108	2CPX041233R9999
		2	500	72	●	●	200	MBK208	2CPX041691R9999	MK208	2CPX041234R9999
		3	750	108	●	●	200	MBK308	2CPX041693R9999	MK308	2CPX041235R9999
4	600	1	250	48	●	●	200	MBK109	2CPX041695R9999	MK109	2CPX041236R9999
		2	500	96	●	●	200	MBK209	2CPX041697R9999	MK209	2CPX041237R9999
		3	750	144	●	●	200	MBK309	2CPX041699R9999	MK309	2CPX041238R9999
5	750	1	250	60	●	●	200	MBK110	2CPX041701R9999	MK110	2CPX041239R9999
		2	500	120	●	●	200	MBK210	2CPX041703R9999	MK210	2CPX041240R9999
		3	750	180	●	●	200	MBK310	2CPX041705R9999	MK310	2CPX041241R9999

Interior expansion system CombiLine N

Horizontal / vertical terminal blocks



MK108K

- With horizontally-arranged DIN rails 35 x 7.5 mm
- DIN rails firmly attached via insulator piece ZK90P2
- Usable depth of 51 mm
- Usable width for terminal blocks: 1-field width 214 mm, 2-field width 464 mm
- Tiered delivery state
- Row spacing 150 mm (can be moved when it is needed)
- For insulated setup ⧈
- The mounting frame must be ordered separately

Height		Width					From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
1	150	1	250	12	●	●	120	MBK106K	2CPX041632R9999	MK106K	2CPX041112R9999
		2	500	24	●	●	120	MBK206K	2CPX041633R9999	MK206K	2CPX041113R9999
2	300	1	250	24	●	●	120	MBK107K	2CPX041634R9999	MK107K	2CPX041114R9999
		2	500	48	●	●	120	MBK207K	2CPX041635R9999	MK207K	2CPX041115R9999
3	450	1	250	36	●	●	120	MBK108K	2CPX041636R9999	MK108K	2CPX041116R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



MK213

- With vertically-arranged DIN rails 35 x 15 mm
- DIN rails that are variably adjustable in depth via the deep angle piece ZW39P2
- Usable depth from 66 mm to 113 mm
- Usable height for terminal blocks: 2 RE 244 mm, 3 RE 438 mm, 4 RE 591 mm
- For grounded and insulated setup ⏚
- The mounting frame must be ordered separately

Height		Width					From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
2	300	1	250	24	●	●	200	MBK112	2CPX041837R9999	MK112	2CPX041127R9999
		2	500	48	●	●	200	MBK212	2CPX041838R9999	MK212	2CPX041128R9999
		3	750	72	●	●	200	MBK312	2CPX041839R9999	MK312	2CPX041129R9999
3	450	1	250	36	●	●	200	MBK113	2CPX041840R9999	MK113	2CPX041130R9999
		2	500	72	●	●	200	MBK213	2CPX041841R9999	MK213	2CPX041131R9999
		3	750	108	●	●	200	MBK313	2CPX041842R9999	MK313	2CPX041132R9999
4	600	1	250	48	●	●	200	MBK114	2CPX041843R9999	MK114	2CPX041133R9999
		2	500	96	●	●	200	MBK214	2CPX041844R9999	MK214	2CPX041134R9999
		3	750	144	●	●	200	MBK314	2CPX041845R9999	MK314	2CPX041135R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame

Interior expansion system CombiLine N

Busbar system 40 mm, horizontal, M(B)S...24



MS324

- Busbar center distance 40 mm
- For maximum 5-pole busbars, see below
- With busbar bracket type ZB5
- With end cover type ZX172
- Additionally braced in the middle from 3-field width
- Rated current (I_n) max. 360 A
- **Important**: note the possibility to combine modules with the TwinLine cabinet row mountings
- The mounting frame must be ordered separately

Height		Width					From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
2	300	1	250	24	●	●	200*1	MBS124	2CPX041737R9999	MS124	2CPX041272R9999
		2	500	48	●	●	200*1	MBS224	2CPX041738R9999	MS224	2CPX041273R9999
		3	750	72	●	●	225*1	MBS324	2CPX041739R9999	MS324	2CPX041274R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



ZX2015

- Busbars for individual cabinet installation
- It is possible to combine different module widths within the cabinet with continuous busbars
- A maximum of 5 copper rails are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
12 x 5	250	1	181	1	ZX2001	2CPX042200R9999	ZXM2001	2CPX042300R9999
		2	431	1	ZX2002	2CPX042201R9999	ZXM2002	2CPX042301R9999
		3	681	1	ZX2003	2CPX042202R9999	ZXM2003	2CPX042302R9999
		4	931	1	ZX2004	2CPX042203R9999	ZXM2004	2CPX042303R9999
		5	1181	1	ZX2005	2CPX042204R9999	ZXM2005	2CPX042304R9999
		6	1431	1	ZX2006	2CPX042792R9999	ZXM2006	2CPX042814R9999
12 x 10	360	1	181	1	ZX2007	2CPX042205R9999	ZXM2007	2CPX042305R9999
		2	431	1	ZX2008	2CPX042206R9999	ZXM2008	2CPX042306R9999
		3	681	1	ZX2009	2CPX042207R9999	ZXM2009	2CPX042307R9999
		4	931	1	ZX2010	2CPX042208R9999	ZXM2010	2CPX042308R9999
		5	1181	1	ZX2011	2CPX042209R9999	ZXM2011	2CPX042309R9999
		6	1431	1	ZX2012	2CPX042793R9999	ZXM2012	2CPX042815R9999
20 x 5	320	1	181	1	ZX2013	2CPX042210R9999	ZXM2013	2CPX042310R9999
		2	431	1	ZX2014	2CPX042211R9999	ZXM2014	2CPX042311R9999
		3	681	1	ZX2015	2CPX042212R9999	ZXM2015	2CPX042312R9999
		4	931	1	ZX2016	2CPX042213R9999	ZXM2016	2CPX042313R9999
		5	1181	1	ZX2017	2CPX042214R9999	ZXM2017	2CPX042314R9999
		6	1431	1	ZX2018	2CPX042794R9999	ZXM2018	2CPX042816R9999

Interior expansion system CombiLine N

Busbar system 60 mm, horizontal, M(B)S...27



MS327

- Busbar center distance 60 mm
- For 3-pole busbars, see below
- With busbar bracket type ZX151
- Additionally braced in the middle from 3-field width
- Rated current (I_n) max. 630 A
- **Important**: note the possibility to combine modules with the TwinLine cabinet row mountings
- The mounting frame must be ordered separately

Height		Width					From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
2	300	1	250	24	●	●	215*1	MBS127	2CPX041740R9999	MS127	2CPX041275R9999
		2	500	48	●	●	215*1	MBS227	2CPX041741R9999	MS227	2CPX041276R9999
		3	750	72	●	●	225*1	MBS327	2CPX041742R9999	MS327	2CPX041277R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



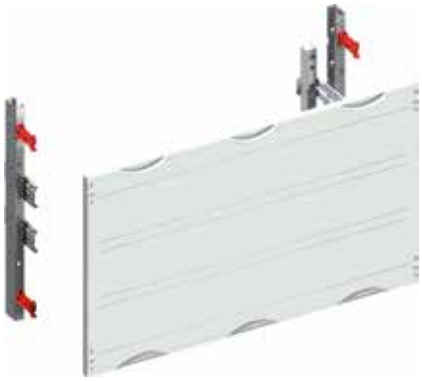
ZX2027

- Busbars for individual cabinet installation
- It is possible to combine different module widths within the cabinet with continuous busbars
- 3 copper rails are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
30 x 5	440	1	184	1	ZX2019	2CPX042215R9999	ZXM2019	2CPX042315R9999
		2	434	1	ZX2020	2CPX042216R9999	ZXM2020	2CPX042316R9999
		3	684	1	ZX2021	2CPX042217R9999	ZXM2021	2CPX042317R9999
		4	934	1	ZX2022	2CPX042218R9999	ZXM2022	2CPX042318R9999
		5	1184	1	ZX2023	2CPX042219R9999	ZXM2023	2CPX042319R9999
		6	1434	1	ZX2024	2CPX042795R9999	ZXM2024	2CPX042817R9999
30 x 10	630	1	184	1	ZX2025	2CPX042220R9999	ZXM2025	2CPX042320R9999
		2	434	1	ZX2026	2CPX042221R9999	ZXM2026	2CPX042321R9999
		3	684	1	ZX2027	2CPX042222R9999	ZXM2027	2CPX042322R9999
		4	934	1	ZX2028	2CPX042223R9999	ZXM2028	2CPX042323R9999
		5	1184	1	ZX2029	2CPX042224R9999	ZXM2029	2CPX042324R9999
		6	1434	1	ZX2030	2CPX042796R9999	ZXM2030	2CPX042818R9999

Interior expansion system CombiLine N

Busbar system 100 mm, horizontal, M(B)S...31



MS331

- Busbar center distance 100 mm
- For 3-pole busbars, see below
- With busbar bracket type ZX520
- Rated current (I_n) 850 A
- The mounting frame must be ordered separately
- Not suitable for fire protection housing

Height		Width					From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
3	450	1	250	36		●	275	MBS131	2CPX041743R9999	MS131	2CPX041278R9999
		2	500	72		●	275	MBS231	2CPX041744R9999	MS231	2CPX041279R9999
		3	750	108		●	275	MBS331	2CPX041745R9999	MS331	2CPX041280R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



ZX2033

- Busbars for individual cabinet installation
- It is possible to combine different module widths within the cabinet with continuous busbars
- 3 copper rails are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
40 x 10	850	1	184	1	ZX2031	2CPX042225R9999	ZXM2031	2CPX042325R9999
		2	434	1	ZX2032	2CPX042226R9999	ZXM2032	2CPX042326R9999
		3	684	1	ZX2033	2CPX042227R9999	ZXM2033	2CPX042327R9999
		4	934	1	ZX2034	2CPX042228R9999	ZXM2034	2CPX042328R9999
		5	1184	1	ZX2035	2CPX042229R9999	ZXM2035	2CPX042329R9999
		6	1434	1	ZX2036	2CPX042797R9999	ZXM2036	2CPX042819R9999

Interior expansion system CombiLine N

Busbar system, vertical, M(B)S...28, MBW250A



MS128

- With 4-pole busbars 30 x 5 mm, bores with M6 thread as well as connection with M8 press-in nuts for access
- With busbar bracket type ZX518
- Rated current (I_n) 440 A
- The mounting frame must be ordered separately
- Not suitable for fire protection housing

Height		Width					From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
Re	mm	FB	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
2	300	1	250	24	●	●	200	MBS128	2CPX041648R9999	MS128	2CPX041123R9999
3	450	2	500	72	●	●	200	MBS228	2CPX041649R9999	MS228	2CPX041124R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



MBW250A

- With 3-pole busbars 30 x 5 mm and removable transformer supports
- With busbar bracket ZX146
- With deep angle piece ZW59P2
- With bus-mounting fuse socket E27, width 42 mm, 3-pole
- With cover with transparent panel
- Rated current (I_n) 250 A
- The mounting frame must be ordered separately
- Not suitable for fire protection housing

Height		Width					From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
Re	mm	FB	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
3	450	1	250	36	●	●	215	MBW250A	2CPX042102R9999	-	-

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame

Interior expansion system CombiLine N

N/PE busbar system, horizontal, M(B)N...69



MN369

- For 2-pole busbars, see below
- With busbar bracket type ZX518
- Additionally braced in the middle from 3-field width
- Rated current (I_n) max. 320 A
- The mounting frame must be ordered separately

Height		Width					From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
1	150	1	250	12	●	●	200	MBN169	2CPX041424R9999	MN169	2CPX041419R9999
		2	500	24	●	●	200	MBN269	2CPX041425R9999	MN269	2CPX041420R9999
		3	750	36	●	●	200	MBN369	2CPX041426R9999	MN369	2CPX041421R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



ZX2066

- Busbars for individual cabinet installation
- It is possible to combine different module widths within the cabinet with continuous busbars
- 2 copper rails are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
12 x 5	250	1	204	1	ZX2046	2CPX042538R9999	ZXM2046	2CPX042458R9999
		2	454	1	ZX2047	2CPX042539R9999	ZXM2047	2CPX042459R9999
		3	704	1	ZX2048	2CPX042540R9999	ZXM2048	2CPX042460R9999
		4	954	1	ZX2049	2CPX042541R9999	ZXM2049	2CPX042461R9999
		5	1204	1	ZX2050	2CPX042542R9999	ZXM2050	2CPX042462R9999
		6	1454	1	ZX2051	2CPX042798R9999	ZXM2051	2CPX042820R9999
20 x 5	320	1	204	1	ZX2064	2CPX042553R9999	ZXM2064	2CPX042473R9999
		2	454	1	ZX2065	2CPX042554R9999	ZXM2065	2CPX042474R9999
		3	704	1	ZX2066	2CPX042555R9999	ZXM2066	2CPX042475R9999
		4	954	1	ZX2067	2CPX042556R9999	ZXM2067	2CPX042476R9999
		5	1204	1	ZX2068	2CPX042557R9999	ZXM2068	2CPX042477R9999
		6	1454	1	ZX2069	2CPX042799R9999	ZXM2069	2CPX042821R9999

Interior expansion system CombiLine N

N/PE busbar system and terminal blocks, M(B)N...74+75



MN374



MN375

- For 2-pole busbars, see below
- With busbar bracket type ZX518
- With end cover type ZX519
- Additionally braced in the middle from 3-field width
- DIN rail that is variably adjustable in depth via the deep angle piece ZW59P2
- Usable depth from 90 mm to 145 mm
- Usable width for terminal blocks: 1-field width 188 mm, 2-field width 438 mm, 3-field width 688 mm
- Rated current (I_n) max. 440 A
- **Important**: note the possibility to combine modules with the TwinLine cabinet row mountings
- The mounting frame must be ordered separately

With one additional DIN rail for terminal blocks

Height		Width					From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
2	300	1	250	24	●	●	200	MBN174	2CPX041746R9999	MN174	2CPX041281R9999
		2	500	48	●	●	200	MBN274	2CPX041748R9999	MN274	2CPX041282R9999
		3	750	72	●	●	200	MBN374	2CPX041750R9999	MN374	2CPX041283R9999
With two additional DIN rails for terminal blocks											
3	450	1	250	36	●	●	200	MBN175	2CPX041752R9999	MN175	2CPX041284R9999
		2	500	72	●	●	200	MBN275	2CPX041754R9999	MN275	2CPX041285R9999
		3	750	108	●	●	200	MBN375	2CPX041756R9999	MN375	2CPX041286R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



ZX1015

- Busbars for individual cabinet installation
- It is possible to combine different module widths within the cabinet with continuous busbars
- 2 copper rails are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
12 x 5	250	1	246	1	ZX1001	2CPX041870R9999	ZXM1001	2CPX041480R9999
		2	496	1	ZX1002	2CPX041871R9999	ZXM1002	2CPX041481R9999
		3	746	1	ZX1003	2CPX041872R9999	ZXM1003	2CPX041482R9999
		4	996	1	ZX1004	2CPX041873R9999	ZXM1004	2CPX041483R9999
		5	1246	1	ZX1005	2CPX041874R9999	ZXM1005	2CPX041484R9999
		6	1496	1	ZX1006	2CPX042800R9999	ZXM1006	2CPX042822R9999
20 x 5	320	1	246	1	ZX1013	2CPX041882R9999	ZXM1013	2CPX041492R9999
		2	496	1	ZX1014	2CPX041883R9999	ZXM1014	2CPX041493R9999
		3	746	1	ZX1015	2CPX041884R9999	ZXM1015	2CPX041494R9999
		4	996	1	ZX1016	2CPX041885R9999	ZXM1016	2CPX041495R9999
		5	1246	1	ZX1017	2CPX041886R9999	ZXM1017	2CPX041496R9999
		6	1496	1	ZX1018	2CPX042801R9999	ZXM1018	2CPX042823R9999
30 x 5	440	1	246	1	ZX1019	2CPX041888R9999	ZXM1019	2CPX041498R9999
		2	496	1	ZX1020	2CPX041889R9999	ZXM1020	2CPX041499R9999
		3	746	1	ZX1021	2CPX041890R9999	ZXM1021	2CPX041500R9999
		4	996	1	ZX1022	2CPX041891R9999	ZXM1022	2CPX041501R9999
		5	1246	1	ZX1023	2CPX041892R9999	ZXM1023	2CPX041502R9999
		6	1496	1	ZX1024	2CPX042802R9999	ZXM1024	2CPX042824R9999

Interior expansion system CombiLine N

N/PE busbar system and terminal blocks, M(B)N...62+63



MN362



MN363

- For 2-pole busbars, see below
- With busbar bracket type ZX149
- Additionally braced in the middle from 3-field width
- DIN rail that is variably adjustable in depth via the deep angle piece ZW59P2
- Usable depth from 90 mm to 145 mm
- Usable width for terminal blocks: 1-field width 188 mm, 2-field width 438 mm, 3-field width 688 mm
- Rated current (I_n) 630 A
- **Important**: note the possibility to combine modules with the TwinLine cabinet row mountings
- The mounting frame must be ordered separately
- Not suitable for fire protection housing

With one additional DIN rail for terminal blocks

Height		Width					From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
2	300	1	250	24		●	275	MBN162	2CPX041758R9999	MN162	2CPX041287R9999
		2	500	48		●	275	MBN262	2CPX041760R9999	MN262	2CPX041288R9999
		3	750	72		●	275	MBN362	2CPX041762R9999	MN362	2CPX041289R9999
With two additional DIN rails for terminal blocks											
3	450	1	250	36		●	275	MBN163	2CPX041764R9999	MN163	2CPX041290R9999
		2	500	72		●	275	MBN263	2CPX041766R9999	MN263	2CPX041291R9999
		3	750	108		●	275	MBN363	2CPX041768R9999	MN363	2CPX041292R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



ZX2084

- Busbars for individual cabinet installation
- It is possible to combine different module widths within the cabinet with continuous busbars
- 2 copper rails are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
30 x 10	630	1	201	1	ZX2082	2CPX042568R9999	ZXM2082	2CPX042488R9999
		2	451	1	ZX2083	2CPX042569R9999	ZXM2083	2CPX042489R9999
		3	701	1	ZX2084	2CPX042570R9999	ZXM2084	2CPX042490R9999
		4	951	1	ZX2085	2CPX042571R9999	ZXM2085	2CPX042491R9999
		5	1201	1	ZX2086	2CPX042572R9999	ZXM2086	2CPX042492R9999
		6	1451	1	ZX2087	2CPX042803R9999	ZXM2087	2CPX042825R9999

Interior expansion system CombiLine N

Busbar system 60 mm, horizontal, M(B)R...02(B)



MR302B



MR302

- Busbar center distance 60 mm
- For 3-pole busbars
- 32 mm spacing between copper rail and cover
- With busbar bracket type ZX146
- With end cover ZX172
- Additionally braced in the middle from 3-field width
- Rated current (I_n) max. 440 A
- Bus-mounting fuse socket, see below
- **Important**: note the possibility to combine modules with the TwinLine cabinet row mountings
- The mounting frame must be ordered separately
- Not suitable for fire protection housing

Populated module for equipment with vertically installed 3-pole bus-mounting fuse socket, I_n up to max. 250 A

Height		Width		Elements				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	D02	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
2	300	1	250	5*4	24	●	●	120	-	-	MR102B	2CPX041409R9999
		2	500	14*4	48	●	●	200	-	-	MR202B	2CPX041410R9999
		3	750	24*4	72	-	●	225	-	-	MR302B	2CPX041411R9999

Unpopulated module for equipment, for vertical installation of bus-mounting fuse sockets, D0 fuse switch disconnectors or NH00 fuse switch disconnector*3, I_n up to max. 440 A

Height		Width		Useful width				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
2	300	1	250	1 x 215*4	24	●	●	120*3	MBR102	2CPX041825R9999	MR102	2CPX041406R9999
		2	500	1 x 465*4	48	●	●	200*3	MBR202	2CPX041826R9999	MR202	2CPX041407R9999
		3	750	2 x 320*4	72	-	●	225*3	MBR302	2CPX041827R9999	MR302	2CPX041408R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame | *3 The cabinet depth depends on the depth dimensions of the equipment (comparison of cabinet views with dimensions of the equipment) | *4 The change useable width should be considered in the TwinLine busbar arrangement 166



ZE60



ZE61



ZE62



ZA4P10

Article	Unit	Type	Order code
Neozed bus-mounting fuse socket E18, width 26 mm For gauge ring inserts, 3-pole, with covers and nameplates, with E18 thread, safety fuse max. 63 A	1	ZE60	2CPX061045R9999
	10	ZE60P10	2CPX062400R9999
Diazed bus-mounting fuse socket E27, width 42 mm For gauge ring inserts, 3-pole, with covers and nameplates, with E27 thread, safety fuse max. 25 A	1	ZE61	2CPX061046R9999
Diazed bus-mounting fuse socket E33, width 56 mm For gauge ring inserts, 3-pole, with covers and nameplates, with E33 thread, safety fuse max. 63 A	1	ZE62	2CPX061047R9999
Shutters instead of bus-mounting fuse socket Color similar to RAL 7035, for compliance with the contact protection IPXXC Usable width from 16 mm to 34 mm	10	ZA4P10	2CPX062374R9999

Interior expansion system CombiLine N

Busbar system 60 mm horizontal, M(B)R...02



ZX1015

- Busbars for individual cabinet installation
- It is possible to combine different module widths within the cabinet with continuous busbars
- 3 copper rails are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
12 x 5	(100)* 250	1	246	1	ZX1001	2CPX041870R9999	ZXM1001	2CPX041480R9999
		2	496	1	ZX1002	2CPX041871R9999	ZXM1002	2CPX041481R9999
		3	746	1	ZX1003	2CPX041872R9999	ZXM1003	2CPX041482R9999
		4	996	1	ZX1004	2CPX041873R9999	ZXM1004	2CPX041483R9999
		5	1246	1	ZX1005	2CPX041874R9999	ZXM1005	2CPX041484R9999
		6	1496	1	ZX1006	2CPX042800R9999	ZXM1006	2CPX042822R9999
20 x 5	(250)* 320	1	246	1	ZX1013	2CPX041882R9999	ZXM1013	2CPX041492R9999
		2	496	1	ZX1014	2CPX041883R9999	ZXM1014	2CPX041493R9999
		3	746	1	ZX1015	2CPX041884R9999	ZXM1015	2CPX041494R9999
		4	996	1	ZX1016	2CPX041885R9999	ZXM1016	2CPX041495R9999
		5	1246	1	ZX1017	2CPX041886R9999	ZXM1017	2CPX041496R9999
		6	1496	1	ZX1018	2CPX042801R9999	ZXM1018	2CPX042823R9999
30 x 5	(250)* 440	1	246	1	ZX1019	2CPX041888R9999	ZXM1019	2CPX041498R9999
		2	496	1	ZX1020	2CPX041889R9999	ZXM1020	2CPX041499R9999
		3	746	1	ZX1021	2CPX041890R9999	ZXM1021	2CPX041500R9999
		4	996	1	ZX1022	2CPX041891R9999	ZXM1022	2CPX041501R9999
		5	1246	1	ZX1023	2CPX041892R9999	ZXM1023	2CPX041502R9999
		6	1496	1	ZX1024	2CPX042802R9999	ZXM1024	2CPX042824R9999

* For expansion with bus-mounting fuse socket

Interior expansion system CombiLine N

Busbar system 60 mm horizontal, M(B)R...03



MR303

- Unpopulated for equipment for the vertical installation of D0 and NH fuse switch disconnectors or bus-mounting fuse sockets
- For 3-pole busbars, see below
- Spacing between copper rail and cover: For the equipment Efen and K'Electric 68 mm*3, Jean Müller and Wöhner 60.5 mm*3
- Cover without cutout, including extension frame
- With busbar bracket type ZX146
- Additionally braced in the middle from 3-field width
- Rated current (I_n) max. 630 A
- The mounting frame must be ordered separately
- Not suitable for fire protection housing

Height		Width		Useful width				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
3	450	1	250	165	36	-	●	275*3	MBR103	2CPX041830R9999	MR103	2CPX041414R9999
		2	500	415	72	-	●	275*3	MBR203	2CPX041831R9999	MR203	2CPX041415R9999
		3	750	665	108	-	●	275*3	MBR303	2CPX041832R9999	MR303	2CPX041416R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame | *3 The cabinet depth depends on the depth dimensions of the equipment (comparison of cabinet views with dimensions of the equipment)



ZX2060

- Busbars for individual cabinet installation
- It is possible to combine different module widths within the cabinet with continuous busbars
- 3 copper rails are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
12 x 5	250	1	195	1	ZX2040	2CPX042533R9999	ZXM2040	2CPX042453R9999
		2	445	1	ZX2041	2CPX042534R9999	ZXM2041	2CPX042454R9999
		3	695	1	ZX2042	2CPX042535R9999	ZXM2042	2CPX042455R9999
		4	945	1	ZX2043	2CPX042536R9999	ZXM2043	2CPX042456R9999
		5	1195	1	ZX2044	2CPX042537R9999	ZXM2044	2CPX042457R9999
		6	1445	1	ZX2045	2CPX042804R9999	ZXM2045	2CPX042826R9999
12 x 10	360	1	195	1	ZX2052	2CPX042543R9999	ZXM2052	2CPX042463R9999
		2	445	1	ZX2053	2CPX042544R9999	ZXM2053	2CPX042464R9999
		3	695	1	ZX2054	2CPX042545R9999	ZXM2054	2CPX042465R9999
		4	945	1	ZX2055	2CPX042546R9999	ZXM2055	2CPX042466R9999
		5	1195	1	ZX2056	2CPX042547R9999	ZXM2056	2CPX042467R9999
		6	1445	1	ZX2057	2CPX042805R9999	ZXM2057	2CPX042827R9999
20 x 5	320	1	195	1	ZX2058	2CPX042548R9999	ZXM2058	2CPX042468R9999
		2	445	1	ZX2059	2CPX042549R9999	ZXM2059	2CPX042469R9999
		3	695	1	ZX2060	2CPX042550R9999	ZXM2060	2CPX042470R9999
		4	945	1	ZX2061	2CPX042551R9999	ZXM2061	2CPX042471R9999
		5	1195	1	ZX2062	2CPX042552R9999	ZXM2062	2CPX042472R9999
		6	1445	1	ZX2063	2CPX042806R9999	ZXM2063	2CPX042828R9999
30 x 5	440	1	195	1	ZX2070	2CPX042558R9999	ZXM2070	2CPX042478R9999
		2	445	1	ZX2071	2CPX042559R9999	ZXM2071	2CPX042479R9999
		3	695	1	ZX2072	2CPX042560R9999	ZXM2072	2CPX042480R9999
		4	945	1	ZX2073	2CPX042561R9999	ZXM2073	2CPX042481R9999
		5	1195	1	ZX2074	2CPX042562R9999	ZXM2074	2CPX042482R9999
		6	1445	1	ZX2075	2CPX042807R9999	ZXM2075	2CPX042829R9999
30 x 10	630	1	195	1	ZX2076	2CPX042563R9999	ZXM2076	2CPX042483R9999
		2	445	1	ZX2077	2CPX042564R9999	ZXM2077	2CPX042484R9999
		3	695	1	ZX2078	2CPX042565R9999	ZXM2078	2CPX042485R9999
		4	945	1	ZX2079	2CPX042566R9999	ZXM2079	2CPX042486R9999
		5	1195	1	ZX2080	2CPX042567R9999	ZXM2080	2CPX042487R9999
		6	1445	1	ZX2081	2CPX042808R9999	ZXM2081	2CPX042830R9999

Interior expansion system CombiLine N

Busbar system 60 mm vertical, M(B)R...H



MR102H

- Unpopulated for equipment for the horizontal installation of bus-mounting fuse sockets, see below
- For 3-pole busbars, see below
- 32 mm spacing between copper rail and cover
- With busbar bracket type ZX146
- Rated current (I_n) max. 250 A
- The mounting frame must be ordered separately
- Not suitable for fire protection housing

Height		Width		Cutout height in				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
2	300	1	250	1 x 134	24	●	●	120	MBR102H	2CPX041828R9999	MR102H	2CPX041412R9999
3	450	1	250	1 x 295	36	●	●	200	MBR103H	2CPX041829R9999	MR103H	2CPX041413R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



ZX2506

- Combinations of different module heights (see information in RE height) are possible within the cabinet with continuous busbars.
- 3 copper rails are required per module

Copper rail	I_n	Height			Kit not installed		Mounted and installed in the cabinet	
mm	A	RE	mm	Unit	Type	Order code	Type	Order code
12x5,	100	2	178	1	ZX2500	2CPX042877R9999	ZXM2500	2CPX042867R9999
		3	328	1	ZX2501	2CPX042878R9999	ZXM2501	2CPX042868R9999
		4 (2RE + 2RE)	478	1	ZX2502	2CPX042879R9999	ZXM2502	2CPX042869R9999
		5 (2RE + 3RE)	628	1	ZX2503	2CPX042880R9999	ZXM2503	2CPX042870R9999
		6 (3RE + 3RE)	778	1	ZX2504	2CPX042881R9999	ZXM2504	2CPX042871R9999
20x5	250	2	178	1	ZX2505	2CPX042882R9999	ZXM2505	2CPX042872R9999
		3	328	1	ZX2506	2CPX042883R9999	ZXM2506	2CPX042873R9999
		4 (2RE + 2RE)	478	1	ZX2507	2CPX042884R9999	ZXM2507	2CPX042874R9999
		5 (2RE + 3RE)	628	1	ZX2508	2CPX042885R9999	ZXM2508	2CPX042875R9999
		6 (3RE + 3RE)	778	1	ZX2509	2CPX042886R9999	ZXM2509	2CPX042876R9999



ZE60



ZE61



ZE62



ZA4P10

Article	Unit	Type	Order code
Neozed bus-mounting fuse socket E18, width 26 mm For gauge ring inserts, 3-pole, with covers and nameplates, with E18 thread, safety fuse max. 63 A	1	ZE60	2CPX061045R9999
	10	ZE60P10	2CPX062400R9999
Diazed bus-mounting fuse socket E27, width 42 mm For gauge ring inserts, 3-pole, with covers and nameplates, with E27 thread, safety fuse max. 25 A	1	ZE61	2CPX061046R9999
Diazed bus-mounting fuse socket E33, width 56 mm For gauge ring inserts, 3-pole, with covers and nameplates, with E33 thread, safety fuse max. 63 A	1	ZE62	2CPX061047R9999
Shutters instead of bus-mounting fuse socket Color similar to RAL 7035, for compliance with the contact protection IPXXC	10	ZA4P10	2CPX062374R9999

Interior expansion system CombiLine N

NH00-fuse switch disconnector, M(B)T...35+36+37(B)



MT337B

- Populated with NH00 fuse switch disconnector 160 A type ZH411, with separator shutters
- With 320 A busbar system, 3-pole, M8 connection screws
- Rated current (I_n) max. 320 A
- **Important**: note the cabinet depth in the lock area
- Spacing from the front edge of the equipment to the cover: 37 mm
- The mounting frame must be ordered separately
- Not suitable for fire protection housing, except for module MT135B

Height		Width		With disconnector				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	NH00	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
2	300	1	250	1	24	●	●	200	-	-	MT135B	2CPX042451R9999
		1	250	2	24	●	●	200	-	-	MT136B	2CPX041293R9999
		2	500	4	48	●	●	200	-	-	MT236B	2CPX041294R9999
		3	750	6	72	●	●	200	-	-	MT336B	2CPX041295R9999
4	600	1	250	4	48	●	●	200	-	-	MT137B	2CPX041296R9999
		2	500	8	96	●	●	200	-	-	MT237B	2CPX041297R9999
		3	750	12	144	-	●	200	-	-	MT337B	2CPX041298R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



MT337

- Unpopulated for NH00 fuse switch disconnectors 160 A, Makes: ABB (ZH411, ZH412), without separator shutters
- For 320 A busbar system, 3-pole
- Rated current (I_n) max. 320 A
- **Important**: note the cabinet depth in the lock area
- The mounting frame must be ordered separately
- Not suitable for fire protection housing, except for modules MBT135 and MT135

Height		Width		For disconnector				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	NH00	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
2	300	1	250	1	24	●	●	200	MBT135	2CPX042452R9999	MT135	2CPX042450R9999
		1	250	2	24	●	●	200	MBT136	2CPX041770R9999	MT136	2CPX041299R9999
		2	500	4	48	●	●	200	MBT236	2CPX041771R9999	MT236	2CPX041300R9999
		3	750	6	72	●	●	200	MBT336	2CPX041772R9999	MT336	2CPX041301R9999
4	600	1	250	4	48	●	●	200	MBT137	2CPX041773R9999	MT137	2CPX041302R9999
		2	500	8	96	●	●	200	MBT237	2CPX041774R9999	MT237	2CPX041303R9999
		3	750	12	144	-	●	200	MBT337	2CPX041775R9999	MT337	2CPX041304R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame

Interior expansion system CombiLine N

Accessories for NH00-fuse switch disconnector modules



ZH411



ZH412



ZH311



ZH312



ZH427



ZH430



ZX148

Article	Suitable for module	Unit	Type	Order code
NH00 fuse switch disconnector Rated current (I_n) max. 160 A, without separator shutters				
With M8 connection screws	M(B)T135 - M(B)T337	1	ZH411	2CPX062947R9999
With U-clamp terminals up to 50 mm²	M(B)T135 - M(B)T337	1	ZH412	2CPX062948R9999
NH00 busbar system Copper rails 20 x 5 mm, 3-pole Rated current (I_n) 320 A Single-story with M8 connection screws	M(B)T136	1	ZH214	2CPX060443R9999
	M(B)T236	1	ZH211	2CPX060440R9999
	M(B)T336	1	ZH311	2CPX060450R9999
NH00 busbar system Copper rails 20 x 5 mm, 3-pole Rated current (I_n) 320 A Double-story with M8 connection screws	M(B)T137	1	ZH216	2CPX060445R9999
	M(B)T237	1	ZH212	2CPX060441R9999
	M(B)T337	1	ZH312	2CPX060451R9999
Separator shutters For NH fuse switch disconnector, color similar to RAL 7035, for compliance with the contact protection IPXXC				
Single shutter	1 x M(B)T135 *	1	ZH425	2CPX062952R9999
Double shutter	1 x M(B)T136 * 2 x M(B)T236 * 2 x M(B)T137 * 4 x M(B)T237 *	1	ZH426	2CPX062953R9999
Triple shutter	2 x M(B)T336 * 4 x M(B)T337 *	1	ZH427	2CPX062954R9999
Separator shutters, closed Instead of NH fuse switch disconnector, color similar to RAL 7035, for compliance with the contact protection IPXXC				
Single shutter	M(B)T135 - M(B)T337	1	ZH428	2CPX062955R9999
Double shutter	M(B)T236 - M(B)T337	1	ZH429	2CPX062956R9999
Triple shutter	M(B)T336 - M(B)T337	1	ZH430	2CPX062957R9999
Insulation plate For non-allocated busbar ends with NH00 fuse switch disconnector	M(B)T135 - M(B)T337	1	ZX148	2CPX044018R9999

*Quantity per module when fully assembled

Interior expansion system CombiLine N

NH1-fuse switch disconnector, M(B)T...42+43(B)



MT343B

- Populated with NH1 fuse switch disconnector 250 A type ZH431, with separator shutters
- With 3-pole busbar system, M10 connection screws
- Rated current (I_n) max. 440 A, single-story
- Rated current (I_n) max. 630 A, double-story
- **Important**: note the cabinet depth in the lock area
- Spacing from the front edge of the equipment to the cover: 43 mm
- The mounting frame must be ordered separately
- Not suitable for fire protection housing

Height		Width		With disconnector				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	NH1	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
3	450	1	250	1	36	●	●	200	-	-	MT142B	2CPX041305R9999
		2	500	2	72	●	●	200	-	-	MT242B	2CPX041306R9999
		3	750	3	108	-	●	225	-	-	MT342B	2CPX041307R9999
5	750	1	250	2	60	●	●	200	-	-	MT143B	2CPX041308R9999
		2	500	4	120	-	●	225	-	-	MT243B	2CPX041309R9999
		3	750	6	180	-	●	225	-	-	MT343B	2CPX041310R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



MT343

- Unpopulated for NH1 fuse switch disconnectors 250 A, Makes: ABB (ZH431), without separator shutters
- For busbar system, 3-pole
- Rated current (I_n) max. 440 A, single-story
- Rated current (I_n) max. 630 A, double-story
  Important: note the cabinet depth in the lock area
- The mounting frame must be ordered separately
- Not suitable for fire protection housing

Height		Width		For disconnector				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	NH1	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
3	450	1	250	1	36	●	●	200	MBT142	2CPX041776R9999	MT142	2CPX041311R9999
		2	500	2	72	●	●	200	MBT242	2CPX041777R9999	MT242	2CPX041312R9999
		3	750	3	108	-	●	225	MBT342	2CPX041778R9999	MT342	2CPX041313R9999
5	750	1	250	2	60	●	●	200	MBT143	2CPX041779R9999	MT143	2CPX041314R9999
		2	500	4	120	-	●	225	MBT243	2CPX041780R9999	MT243	2CPX041315R9999
		3	750	6	180	-	●	225	MBT343	2CPX041781R9999	MT343	2CPX041316R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame

Interior expansion system CombiLine N

Accessories for NH1-fuse switch disconnector modules



ZH431



ZH317



ZH318

ZH438

ZH440



ZX128

Article	Intended use	Unit	Type	Order code
NH1 fuse switch disconnector Rated current (I_n) max. 250 A, without separator shutters, with M10 connection screws	M(B)T142 - M(B)T343	1	ZH431	2CPX062958R9999
NH1/NH2 busbar system Copper rails 30 x 5 mm, 3-pole Rated current (I_n) 440 A Single-story with M10 connection screws	M(B)T242	1	ZH217	2CPX060446R9999
	M(B)T342	1	ZH317	2CPX060456R9999
NH1/NH2 busbar system Copper rails 30 x 10 mm, 3-pole Rated current (I_n) 630 A Double-story with M10 connection screws	M(B)T243	1	ZH218	2CPX060447R9999
	M(B)T343	1	ZH318	2CPX060457R9999
Separator shutter Single shutter for NH fuse switch disconnector, color similar to RAL 7035, for compliance with the contact protection IPXXC	1 x M(B)T142 * 2 x M(B)T242 * 3 x M(B)T342 * 2 x M(B)T143 * 4 x M(B)T243 * 6 x M(B)T343 *	1	ZH438	2CPX062961R9999
Separator shutter, closed Single shutter instead of NH fuse switch disconnector, color similar to RAL 7035, for compliance with the contact protection IPXXC	M(B)T142 - M(B)T343	1	ZH440	2CPX062963R9999
Insulation plate For non-allocated busbar ends with NH1 fuse switch disconnector	M(B)T142 - M(B)T343	1	ZX128	2CPX039128R9999

*Quantity per module when fully assembled

Interior expansion system CombiLine N

NH2-fuse switch disconnector, M(B)T...44+45(B)



MT345B

- Populated with NH2 fuse switch disconnector 400 A type ZH441, with separator shutters
- With 3-pole busbar system, M10 connection screws
- Rated current (I_n) max. 440 A, single-story
- Rated current (I_n) max. 630 A, double-story
- **Important**: note the cabinet depth in the lock area
- Spacing from the front edge of the equipment to the cover: 43 mm
- The mounting frame must be ordered separately
- Not suitable for fire protection housing

Height		Width		With disconnector				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	NH2	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
3	450	1	250	1	36	●	●	215	-	-	MT144B	2CPX041317R9999
		2	500	2	72	●	●	215	-	-	MT244B	2CPX041318R9999
		3	750	3	108	-	●	225	-	-	MT344B	2CPX041319R9999
5	750	1	250	2	60	●	●	215	-	-	MT145B	2CPX041320R9999
		2	500	4	120	-	●	225	-	-	MT245B	2CPX041321R9999
		3	750	6	180	-	●	225	-	-	MT345B	2CPX041322R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



MT345

- Unpopulated for NH2 fuse switch disconnectors 400 A, Makes: ABB (ZH441), without separator shutters
- For busbar system, 3-pole
- Rated current (I_n) max. 440 A, single-story
- Rated current (I_n) max. 630 A, double-story
- **Important**: note the cabinet depth in the lock area
- The mounting frame must be ordered separately
- Not suitable for fire protection housing

Height		Width		For disconnector				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	NH2	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
3	450	1	250	1	36	●	●	215	MBT144	2CPX041782R9999	MT144	2CPX041323R9999
		2	500	2	72	●	●	215	MBT244	2CPX041783R9999	MT244	2CPX041324R9999
		3	750	3	108		●	225	MBT344	2CPX041784R9999	MT344	2CPX041325R9999
5	750	1	250	2	60	●	●	215	MBT145	2CPX041785R9999	MT145	2CPX041326R9999
		2	500	4	120	-	●	225	MBT245	2CPX041786R9999	MT245	2CPX041327R9999
		3	750	6	180	-	●	225	MBT345	2CPX041787R9999	MT345	2CPX041328R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame

Interior expansion system CombiLine N

Accessories for NH2-fuse switch disconnector modules



ZH441



ZH317



ZH318

ZH448



ZH442



ZX129

Article	Intended use	Unit	Type	Order code
NH2 fuse switch disconnector Rated current (I_n) max. 400 A, without separator shutters, with M12 connection screws	M(B)T144 - M(B) T345	1	ZH441	2CPX062964R9999
NH1/NH2 busbar system Copper rails 30 x 5 mm, 3-pole Rated current (I_n) 440 A Single-story with M10 connection screws	M(B)T244	1	ZH217	2CPX060446R9999
	M(B)T344	1	ZH317	2CPX060456R9999
NH1/NH2 busbar system Copper rails 30 x 10 mm, 3-pole Rated current (I_n) 630 A Double-story with M10 connection screws	M(B)T245	1	ZH218	2CPX060447R9999
	M(B)T345	1	ZH318	2CPX060457R9999
Separator shutters For NH fuse switch disconnector, color similar to RAL 7035, for compliance with the contact protection IPXXC				
Single shutter	1 x M(B)T144 * 2 x M(B)T145 *	1	ZH447	2CPX039842R9999
Single shutter	1 x M(B)T344 * 2 x M(B)T345 *	1	ZH448	2CPX062965R9999
Double shutter	1 x M(B)T244 * 1 x M(B)T344 * 2 x M(B)T245 * 2 x M(B)T345 *	1	ZH449	2CPX062966R9999
Separator shutter, closed Single shutter instead of NH fuse switch disconnector, color similar to RAL 7035, for compliance with the contact protection IPXXC	M(B)T144 - M(B) T345	1	ZH442	2CPX062939R9999
Insulation plate For non-allocated busbar ends with NH2 fuse switch disconnector	M(B)T144 - M(B) T345	1	ZX129	2CPX039129R9999

*Quantity per module when fully assembled

Interior expansion system CombiLine N

Busbar system 100 mm, NH00 switch disconnector, M(B)D...52(B)



MD352B

- Populated with InLine II NH00-100 fuse switch disconnection rails 160 A, Make: ABB
- Busbar center distance 100 mm
- For 3-pole, horizontally arranged busbars
- With busbar bracket type ZX520
- Rated current (I_n) max. 850 A
- **Important:**

1. The cabinet depth is to be noted in the lock area Spacing from the front edge of the equipment to the cover: 29 mm
2. The cable connection when using a middle rail or cross-profile rail in the direct connection is only possible to a limited extent with the use of a bridge clamp (plan for connection space, empty module)

- The mounting frame must be ordered separately
- The busbars must be ordered separately from the module
- Not suitable for fire protection housing
- Take additional connection room of at least 150 mm into consideration

Height		Width						From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	Equipment	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
3	450	1	250	3 x NH00	36	●	●	215	-	-	MD152B	2CPX042110R9999
		2	500	8 x NH00	72	●	●	215	-	-	MD252B	2CPX042111R9999
		3	750	12 x NH00	108	-	●	225	-	-	MD352B	2CPX042112R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



MBD352

- Unpopulated for InLine II NH00-100 fuse switch disconnection rails 160 A, Make: ABB
- Busbar center distance 100 mm
- For 3-pole, horizontally arranged busbars
- With busbar bracket type ZX520 mounted on 3-stage assembly bracket ZW480
- Cover without cutout
- Rated current (I_n) max. 850 A
- Equipment, see catalog ABB STOTZ-KONTAKT InLine II
- **Important:** See remarks above

Height		Width		Useful width				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
3	450	1	250	150	36	●	●	215	MBD152	2CPX042116R9999	MD152	2CPX042113R9999
		2	500	300	72	●	●	215	MBD252	2CPX042117R9999	MD252	2CPX042114R9999
		3	750	500	108	-	●	225	MBD352	2CPX042118R9999	MD352	2CPX042115R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame

Interior expansion system CombiLine N

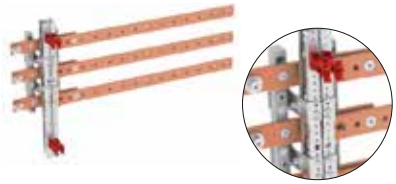
Busbar system 100 mm, NH00 switch disconnector, M(B)D...52(B)



ZXM1215

- Busbars for individual cabinet installation
- With the EDF and WR mounting frame, defined combinations (see info FB width) are possible within the cabinet. The different busbars can be connected via a connection set
- The NH00 fuse switch disconnection rails are mounted directly on the copper rails prepared with press-in nuts
- Set positions are specified for feeding in on copper rails
- 3 copper rails are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
30 x 10	630	1	184	1	ZX1210	2CPX042121R9999	ZXM1210	2CPX042230R9999
		2	434	1	ZX1211	2CPX042122R9999	ZXM1211	2CPX042231R9999
		3	684	1	ZX1212	2CPX042123R9999	ZXM1212	2CPX042232R9999
40 x 10	850	1	184	1	ZX1213	2CPX042124R9999	ZXM1213	2CPX042233R9999
		2	434	1	ZX1214	2CPX042125R9999	ZXM1214	2CPX042234R9999
		3	684	1	ZX1215	2CPX042126R9999	ZXM1215	2CPX042235R9999



ZXM1217

- Busbar connection set (panel-panel connector)
- **Important:** Note the depth from the cabinet for the connection set
- 3 copper connection sets are required per connection
- The connection set is not possible for a cabinet depth of 215 mm

Copper rail	I_n	Width		Kit not installed		Mounted and installed in the cabinet	
mm	A	mm	Unit	Type	Order code	Type	Order code
30 x 10	630	230	1	ZX1216	2CPX042119R9999	ZXM1216	2CPX042236R9999
40 x 10	850	230	1	ZX1217	2CPX042120R9999	ZXM1217	2CPX042237R9999



ZE591M



ZX964

Article	Width in mm	Suitable for ...	Unit	Type	Order code
ZLBM00-100	50	MD...(H)B, M(B)D...	1	ZE591M	2CPX042959R9999
Blanking panels for sealing off reserve spaces 100 mm busbar center distance 50 mm width for sealing NH00 strips			1	ZX964	2CPX042238R9999

Interior expansion system CombiLine N / CombiLine-X

Busbar system 185 mm, NH switch disconnectors, M(B)D...21-300(B)



MD300B

- Populated with InLine II fuse switch disconnection rails **ZLBM**, Make: ABB
- NH00 in-line fused load break switches up to 160 A/ NH1 to 250 A
- Busbar center distance 185 mm
- For 3-pole, horizontally arranged busbars
- With busbar bracket type ZX522
- Rated current (I_n) max. 850 A
- **Important:** Plan for connection space or empty module and note the cabinet depth in the lock area*
- Spacing from the front edge of the equipment to the cover: NH00 – 60 mm/NH1-3 – 65 mm
- The busbars must be ordered separately from the module
- Not possible in combination with CombiLine-X

Height		Width						From cabinet depth	Kit not installed		Mounted and installed in the cabinet*3	
RE	mm	FB	mm	Equipment	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
5	750	1	250	4 x NH00	60	-	●	275*	-	-	MD100B	2CPX042240R9999
		2	500	8 x NH00	120	-	●	275*	-	-	MD200B	2CPX042241R9999
		3	750	12 x NH00	180	-	●	275*	-	-	MD300B	2CPX042242R9999
5	750	2	500	4 x NH1	120	-	●	275*	-	-	MD21B	2CPX042243R9999
		3	750	6 x NH1	180	-	●	275*	-	-	MD31B	2CPX042244R9999

* For double doors, a minimum cabinet depth of 325 mm is required | *1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame

*3 The module frame must be ordered separately | Not suitable for fire protection housing



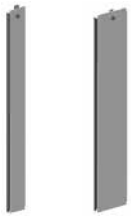
MD300HB

- Populated with InLine II fuse switch disconnection rails **ZHBM**, Make: ABB NH00 in-line fused load break switches up to 160 A/NH1 up to 250 A
- Busbar center distance 185 mm
- For 3-pole, horizontally arranged busbars
- With busbar bracket type ZX522
- Rated current (I_n) max. 850 A
- **Important:** Plan for connection space or empty module and note the cabinet depth in the lock area*
- The busbars must be ordered separately from the module

Height		Width		Useful width				From cabinet depth	Kit not installed		Mounted and installed in the cabinet*3	
RE	mm	FB	mm	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
5	750	1	250	4 x NH00	60	-	●	350*	-	-	MD100HB	2CPX042245R9999
		2	500	8 x NH00	120	-	●	350*	-	-	MD200HB	2CPX042246R9999
		3	750	12 x NH00	180	-	●	350*	-	-	MD300HB	2CPX042247R9999
5	750	2	500	4 x NH1	120	-	●	350*	-	-	MD21HB	2CPX042248R9999
		3	750	6 x NH1	180	-	●	350*	-	-	MD31HB	2CPX042249R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame

*3 The module frame must be ordered separately | Not suitable for fire protection housing



ZX960 **ZX961**

Article	Unit	Type	Order code
Blanking panels for sealing off reserve spaces 185 mm busbar center distance			
50 mm width for sealing NH00 strips	1	ZX960	2CPX043180R9999
100 mm width for sealing NH1-3 strips	1	ZX961	2CPX043181R9999

Interior expansion system CombiLine N / CombiLine-X

Busbar system 185 mm, NH switch disconnectors, M(B)D...21-300(B)



MBD300

- Unpopulated for NH00 to NH3 fuse switch disconnection rails 160 A– 630 A, Make: ABB, **ZLBM** with 275 mm depth, ABB **ZHBM** with 350 mm depth
- Busbar center distance 185 mm
- For 3-pole, horizontally arranged busbars
- With busbar bracket type ZX522 mounted on 2-stage assembly bracket ZW481
- Cover without cutout
- Rated current (I_n) max. 850 A
- Equipment, see catalog ABB STOTZ-KONTAKT InLine II
- **Important:** See remark on next page for build-in components

Height		Width		Useful width				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
5	750	1	250	199.5	60	-	●	275/350*	MBD100	2CPX042255R9999	MD100	2CPX042258R9999
		2	500	399.5	120	-	●	275/350*	MBD200	2CPX042256R9999	MD200	2CPX042259R9999
		3	750	649	180	-	●	275/350*	MBD300	2CPX042257R9999	MD300	2CPX042260R9999

* For double doors, a minimum cabinet depth of 325 mm is required | *1 Expansion on EDF mounting frame | * 2 Expansion on WR mounting frame



ZX1228

- Busbars for individual cabinet installation
- It is possible to combine different module widths within the cabinet with continuous busbars
- With press-in nuts for connecting NH fuse switch disconnection rails
- The module sequence is defined by the press-in nuts from 3-field ready and greater (see info FB width)
- 3 copper rails are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
30 x 10	630	1	215	1	ZX1220	2CPX042267R9999	ZXM1220	2CPX042285R9999
		2	465	1	ZX1221	2CPX042268R9999	ZXM1221	2CPX042286R9999
		3	715	1	ZX1222	2CPX042269R9999	ZXM1222	2CPX042287R9999
		4 (2FB+2FB)	965	1	ZX1223	2CPX042270R9999	ZXM1223	2CPX042288R9999
		5 (3FB+2FB)	1215	1	ZX1224	2CPX042271R9999	ZXM1224	2CPX042289R9999
		6 (3FB+3FB)	1465	1	ZX1225	2CPX042272R9999	ZXM1225	2CPX042290R9999
40 x 10	850	1	215	1	ZX1226	2CPX042273R9999	ZXM1226	2CPX042291R9999
		2	465	1	ZX1227	2CPX042274R9999	ZXM1227	2CPX042292R9999
		3	715	1	ZX1228	2CPX042275R9999	ZXM1228	2CPX042293R9999
		4 (2FB+2FB)	965	1	ZX1229	2CPX042276R9999	ZXM1229	2CPX042294R9999
		5 (3FB+2FB)	1215	1	ZX1230	2CPX042277R9999	ZXM1230	2CPX042295R9999
		6 (3FB+3FB)	1465	1	ZX1231	2CPX042278R9999	ZXM1231	2CPX042296R9999
50 x 10	1000	1	215	1	ZX1232	2CPX042279R9999	ZXM1232	2CPX042297R9999
		2	465	1	ZX1233	2CPX042280R9999	ZXM1233	2CPX042298R9999
		3	715	1	ZX1234	2CPX042281R9999	ZXM1234	2CPX042299R9999
		4 (2FB+2FB)	965	1	ZX1235	2CPX042282R9999	ZXM1235	2CPX042300R9999
		5 (3FB+2FB)	1215	1	ZX1236	2CPX042283R9999	ZXM1236	2CPX042301R9999
		6 (3FB+3FB)	1465	1	ZX1237	2CPX042284R9999	ZXM1237	2CPX042332R9999

* For double doors, a minimum cabinet depth of 325 mm is required | *1 Expansion on EDF mounting frame | * 2 Expansion on WR mounting frame

Interior expansion system CombiLine N / CombiLine-X

Busbar system 185 mm, NH switch disconnectors + EFM, M(B)D...21-300(B)



MD300EB

- Populated with InLine II fuse switch disconnection rails ZHBM,
  Make: ABB ZHBM + Electronic Fuse Monitoring (EFM)
  NH00 fuse switch disconnectors up to 160 A
  NH1 fuse-switch disconnectors up to 250 A
- Busbar center distance 185 mm
- For 3-pole, horizontally arranged busbars
- With busbar bracket type ZX522
- Rated current (I_n) max. 850 A
- **Important:** Plan for connection space or empty module and note the cabinet depth in the lock area*
- Spacing from the front edge of the equipment to the cover: NH00 – 60 mm/NH1-3 – 65 mm
- The mounting frame must be ordered separately
- The busbars must be ordered separately from the module
- Not suitable for fire protection housing

Height		Width		Useful width				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
6	900	1	250	4 x NH00	60	-	●	350	-	-	MD100EB	2CPX042250R9999
		2	500	8 x NH00	120	-	●	350	-	-	MD200EB	2CPX042251R9999
		3	750	12 x NH00	180	-	●	350	-	-	MD300EB	2CPX042252R9999
6	900	2	250	4 x NH1	120	-	●	350	-	-	MD21EB	2CPX042253R9999
		3	750	6 x NH1	180	-	●	350	-	-	MD31EB	2CPX042254R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



ZE551M



ZE561M



ZE553M



ZE563M

Article	Width in mm	Suitable for ...	Unit	Type	Order code
ZLBM00	50	MD...(H)B, M(B)D...	1	ZE551M	2CPX042955R9999
ZLBM1	100	MD...(H)B, M(B)D...	1	ZE561M	2CPX042956R9999
ZLBM2	100	MD...(H)B, M(B)D...	1	ZE571M	2CPX042957R9999
ZLBM3	100	MD...(H)B, M(B)D...	1	ZE581M	2CPX042958R9999
ZHBM00	50	MD...(H)B, M(B)D...	1	ZE552M	2CPX042960R9999
ZHBM1	100	MD...(H)B, M(B)D...	1	ZE562M	2CPX042961R9999
ZHBM2	100	MD...(H)B, M(B)D...	1	ZE572M	2CPX042962R9999
ZHBM3	100	MD...(H)B, M(B)D...	1	ZE582M	2CPX042963R9999
ZHBM+EFM00	50	MD...(H)EB, M(B)D...E	1	ZE553M	2CPX042964R9999
ZHBM+EFM1	100	MD...(H)EB, M(B)D...E	1	ZE563M	2CPX042965R9999
ZHBM+EFM2	100	MD...(H)EB, M(B)D...E	1	ZE573M	2CPX042966R9999
ZHBM+EFM3	100	MD...(H)EB, M(B)D...E	1	ZE583M	2CPX042967R9999



ZX962



ZX963

Article	Unit	Type	Order code
Blanking panels for sealing off reserve spaces with height (EFM) 185 mm busbar center distance			
50 mm width for sealing NH00 strips	1	ZX962	2CPX042193R9999
100 mm width for sealing NH1-3 strips	1	ZX963	2CPX042194R9999

Interior expansion system CombiLine N / CombiLine-X

Busbar system 185 mm, NH switch disconnectors + EFM / ITS, M(B)D...21-300(B)



MBD300E

- Unpopulated for NH00 to NH3 fuse switch disconnection rails + EFM 160 A– 630 A, Make: ABB
- Busbar center distance 185 mm
- For 3-pole, horizontally arranged busbars
- With busbar bracket type ZX522 mounted on 3-stage assembly bracket ZW480
- Cover without cutout
- Rated current (I_n) max. 850 A
- Equipment, see catalog ABB STOTZ-KONTAKT InLine II
- **Important:** See remark on previous page for build-in components

Height		Width		Useful width				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
6	900	1	250	199.5	60	-	●	350	MBD100E	2CPX042261R9999	MD100E	2CPX042264R9999
		2	500	399.5	120	-	●	350	MBD200E	2CPX042262R9999	MD200E	2CPX042265R9999
		3	750	649	180	-	●	350	MBD300E	2CPX042263R9999	MD300E	2CPX042266R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



ZX1228

- Busbars for individual cabinet installation
- It is possible to combine different module widths within the cabinet with continuous busbars
- With press-in nuts for connecting NH fuse switch disconnection rails
- The module sequence is defined by the press-in nuts from 3-field ready and greater (see info FB width)
- 3 copper rails are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
30 x 10	630	1	215	1	ZX1220	2CPX042267R9999	ZXM1220	2CPX042285R9999
		2	465	1	ZX1221	2CPX042268R9999	ZXM1221	2CPX042286R9999
		3	715	1	ZX1222	2CPX042269R9999	ZXM1222	2CPX042287R9999
		4 (2FB+2FB)	965	1	ZX1223	2CPX042270R9999	ZXM1223	2CPX042288R9999
		5 (3FB+2FB)	1215	1	ZX1224	2CPX042271R9999	ZXM1224	2CPX042289R9999
		6 (3FB+3FB)	1465	1	ZX1225	2CPX042272R9999	ZXM1225	2CPX042290R9999
40 x 10	850	1	215	1	ZX1226	2CPX042273R9999	ZXM1226	2CPX042291R9999
		2	465	1	ZX1227	2CPX042274R9999	ZXM1227	2CPX042292R9999
		3	715	1	ZX1228	2CPX042275R9999	ZXM1228	2CPX042293R9999
		4 (2FB+2FB)	965	1	ZX1229	2CPX042276R9999	ZXM1229	2CPX042294R9999
		5 (3FB+2FB)	1215	1	ZX1230	2CPX042277R9999	ZXM1230	2CPX042295R9999
		6 (3FB+3FB)	1465	1	ZX1231	2CPX042278R9999	ZXM1231	2CPX042296R9999
50 x 10	1000	1	215	1	ZX1232	2CPX042279R9999	ZXM1232	2CPX042297R9999
		2	465	1	ZX1233	2CPX042280R9999	ZXM1233	2CPX042298R9999
		3	715	1	ZX1234	2CPX042281R9999	ZXM1234	2CPX042299R9999
		4 (2FB+2FB)	965	1	ZX1235	2CPX042282R9999	ZXM1235	2CPX042300R9999
		5 (3FB+2FB)	1215	1	ZX1236	2CPX042283R9999	ZXM1236	2CPX042301R9999
		6 (3FB+3FB)	1465	1	ZX1237	2CPX042284R9999	ZXM1237	2CPX042332R9999

* For double doors, a minimum cabinet depth of 325 mm is required | *1 Expansion on EDF mounting frame | * 2 Expansion on WR mounting frame

Interior expansion system CombiLine N

Busbar system 185 mm for NH load break switch, M(B)L...5



ML35

- Unpopulated for load break switch NH00 to NH3 fuses 160 A to 630 A
- For make ABB SlimLine XR and Jean Müller Sasil
- Busbar center distance 185 mm
- For 3-pole horizontally arranged busbars, see below
- With busbar bracket type ZX523
- Cover without cutout
- Rated current (I_n) max. 850 A
- **Important:** Plan for connection space or empty module and note the cabinet depth in the lock area
- Spacing from the front edge of the equipment to the cover: 138 mm
- The mounting frame must be ordered separately
- Not suitable for fire protection housing

Height		Width		Useful width				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
5	750	2	500	400	120	-	●	625	MBL25	2CPX041801R9999	ML25	2CPX041368R9999
		3	750	600	180	-	●	625	MBL35	2CPX041802R9999	ML35	2CPX041369R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



ZX1033

- Busbars for individual cabinet installation
- It is possible to combine different module widths within the cabinet with continuous busbars
- With clamping pins for affixing the busbars
- 3 copper rails are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
40 x 10	850	2	496	1	ZX1032	2CPX041901R9999	ZXM1032	2CPX041511R9999
		3	746	1	ZX1033	2CPX041902R9999	ZXM1033	2CPX041512R9999
		4	996	1	ZX1034	2CPX041903R9999	ZXM1034	2CPX041513R9999
		5	1246	1	ZX1035	2CPX041904R9999	ZXM1035	2CPX041514R9999

Interior expansion system CombiLine N

Busbar system 40 mm for S700 and S750, M(B)H



MH250

- Unpopulated for main circuit breakers
- For make ABB S700, 1 to 4-pole (width per pole 35 mm)
- Busbar center distance 40 mm
- For 4-pole horizontally arranged busbars, see below
- With busbar bracket type ZB5
- Additionally braced in the middle from 3-field width
- Covers with cutout
- Rated current (I_n) max. 250 A
- The remaining cutout is closed with cover strips
- The mounting frame must be ordered separately
- The modules MBH350 and MH350 are not suitable for fire protection housing

Height		Width		Useful width				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
2	300	1	250	105	24	●	●	200	MBH150	2CPX041792R9999	MH150	2CPX041337R9999
		2	500	210/105	48	●	●	200	MBH250	2CPX041793R9999	MH250	2CPX041338R9999
		3	750	315/210	72	●	●	200	MBH350	2CPX041794R9999	MH350	2CPX041339R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



MH251

- Unpopulated for main circuit breakers
- For make ABB S750, 1 to 3-pole (width per pole 27 mm)
- For modules with 1-field width, the feed-in occurs directly via the SH-switch with a maximum connection cross-section of 35 mm²/max. 100 A
- Busbar center distance 40 mm
- For 4-pole horizontally arranged busbars, see below
- With busbar bracket type ZB5
- Additionally braced in the middle from 3-field width
- Covers with cutout
- Rated current (I_n) max. 250 A
- The remaining cutout is closed with cover strips
- The mounting frame must be ordered separately
- The modules MBH351 and MH351 are not suitable for fire protection housing

2	300	1	250	161	24	●	●	200	MBH151	2CPX042031R9999	MH151	2CPX042026R9999
		2	500	161/161	48	●	●	200	MBH251	2CPX042032R9999	MH251	2CPX042027R9999
		3	750	322/242	72	●	●	200	MBH351	2CPX042033R9999	MH351	2CPX042028R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



ZX2041

- Busbar within the module
- A maximum of 5 copper rails are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
12 x 5	250	1	195	1	ZX2040	2CPX042533R9999	ZXM2040	2CPX042453R9999
		2	445	1	ZX2041	2CPX042534R9999	ZXM2041	2CPX042454R9999
		3	695	1	ZX2042	2CPX042535R9999	ZXM2042	2CPX042455R9999

Interior expansion system CombiLine N

Power switch Tmax populated, MA...ALXB, MA...ALSB



MA250ALXB

- Populated with power switches, Make: ABB, Tmax XT1, XT3 and T5, 3-pole
- Fixed installation with rocker arm drive
- With thermomagnetic tripping device
- Covers with cutout
- Mounting on mounting cross beam
- **Note:** When directly using a center support rail or cross-profile rail, the cable connection can be realized with terminals (FC-CUAL). This and other accessories are to be ordered via ABB STOTZ-KONTAKT
- The mounting frame must be ordered separately
- Not suitable for fire protection housing, except for module MA100ALXB

Height		Width		I_n	Equipment				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	A	Type	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
2	300	1	250	100	XT1B160R100	24	●	●	120	-	-	MA100ALXB	2CPX041471R9999
				160	XT1N160R160	24	●	●	200	-	-	MA160ALXB	2CPX041472R9999
				200	XT3N250R200	24	●	●	200	-	-	MA200ALXB	2CPX041473R9999
				250	XT3N250R250	24	●	●	200	-	-	MA250ALXB	2CPX041474R9999
3	450	2	500	400	T5N400R400	72	●	●	215	-	-	MA400ALSB	2CPX041384R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



MA630ALSB

- Populated with power switches, Make: ABB, Tmax T5 and T6, 3-pole
- Fixed installation with rocker arm drive
- With electronic tripping device PR221 DS-LS/I
- Covers with cutout
- Mounting on mounting cross beam
- **Note:** When directly using a center support rail or cross-profile rail, the cable connection can be realized with terminals (FC-CUAL). This and other accessories are to be ordered via ABB STOTZ-KONTAKT
- The mounting frame must be ordered separately
- Not suitable for fire protection housing

3	450	2	500	630	T5N630R630	72	-	●	275	-	-	MA630ALSB	2CPX041385R9999
4	600	2	500	800	T6N800R800	96	-	●	325	-	-	MA800ALSB	2CPX041386R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame

Interior expansion system CombiLine N

Power switch Tmax unpopulated, M(B)A...T



MA290T

- Unpopulated for make ABB, fix-mounted installation Tmax XT1, 3-/4-pole, (76.2 mm/101.2 mm) or Tmax XT3, 3/4-pole, (105 mm/140 mm)
- Covers with cutout, remaining cutout must be closed with cover strips
- Rated current (I_n) max. 250 A
- With mounting cross beam, including slide nuts M4
- The mounting frame must be ordered separately
- Not suitable for fire protection housing, except for modules MBA190T and MA190T

Height		Width		Equipment	Cutout width	Useful width				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	Type	mm	mm	PLE	EDF *1	WR*2	mm	Type	Order code	Type	Order code
2	300	1	250	XT1/XT3	216	199	24	●	●	120*3	MBA190T	2CPX041643R9999	MA190T	2CPX041120R9999
		2	500	XT1/XT3	421	449	48	●	●	215	MBA290T	2CPX041644R9999	MA290T	2CPX041417R9999
		3	750	XT1/XT3	687	699	72	-	●	275	MBA390T	2CPX041645R9999	MA390T	2CPX041418R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame | *3 In the small distributor only 1 x Tmax XT1 with rocker arm and max. I_n up to 100 A

Interior expansion system CombiLine N

Power switch Tmax unpopulated, M(B)A...T



MA191T

- Unpopulated for make ABB, fix-mounted installation, Tmax XT2, 3-/4-pole, 90 mm/120 mm
  Tmax XT4, 3/4-pole, 105 mm/140 mm
- Covers with cutout
- With mounting cross beam, including slide nuts M4
- The mounting frame must be ordered separately
- Not suitable for fire protection housing, except for modules MBA191T and MA191T

Height		Width		I_n	Equipment					From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	A	Type	Polarity	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
2	300	1	250	160	XT2	3-poles	24	●	●	200	MBA191T	2CPX042841R9999	MA191T	2CPX042837R9999
2	300	1	250	160	XT2	4-poles	24	●	●	200	MBA194T	2CPX042906R9999	MA194T	2CPX043430R9999
3	450	1	250	250	XT4	3-poles	36	●	●	200	MBA193T	2CPX042844R9999	MA193T	2CPX042840R9999
3	450	1	250	250	XT4	4-poles	36	●	●	200	MBA196T	2CPX042908R9999	MA196T	2CPX043419R9999



MA291T

- Unpopulated for make ABB, fix-mounted installation, Tmax XT2, 3-/4-pole, 90 mm/120 mm
- Covers without cutout
- With mounting cross beam, including slide nuts M4
- The mounting frame must be ordered separately
- Not suitable for fire protection housing

Height		Width		I_n	Equipment		Useful width				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	A	Type	Polarity	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
2	300	2	500	250	XT2	3/4-pole	449	48	●	●	215	MBA291T	2CPX042842R9999	MA291T	2CPX042838R9999
2	300	3	750	250	XT2	3/4-pole	669	72	-	●	260	MBA391T	2CPX042843R9999	MA391T	2CPX042839R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame

Interior expansion system CombiLine N

Power switch Tmax unpopulated, M(B)A...T



MBA195T

- Unpopulated for make ABB, fix-mounted installation,
  Tmax XT2, 4-pole + 4-pole + RC Sel, 120 mm
  Tmax XT4, 4-pole + 4-pole + RC Sel, 140 mm
- Covers with cutout
- With mounting cross beam, including slide nuts M4
- The mounting frame must be ordered separately
- Not suitable for fire protection housing

Height		Width		I_n	Equipment					From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	A	Type	Polarity	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
3	450	1	250	160	XT2	4-pole RC Sel	36	●	●	200	MBA195T	2CPX042907R9999	-	-
3	450	1	250	250	XT4	4-pole RC Sel	36	●	●	200	MBA197T	2CPX042909R9999	-	-



MA298XT

- Unpopulated for make ABB, fix-mounted installation
  Tmax XT5, 3-/4-pole, 140 mm/186 mm
  Tmax XT6, 3/4-pole, 210 mm/280 mm
- Covers with cutout
- With mounting cross beam, including slide nuts M4
- The mounting frame must be ordered separately
- Not suitable for fire protection housing

Height		Width		I_n	Equipment					From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	A	Type	Polarity	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
3	450	1	250	400	XT5	3-polig	36	●	●	225	MBA192XT	2CPX043415R9999	MA192XT	2CPX043412R9999
		2	500	630	XT5	3-/4-polig	72	-	●	225	MBA292XT	2CPX043416R9999	MA292XT	2CPX043413R9999
4	600	2	500	800	XT6	3-/4-polig	96	-	●	225	MBA298XT	2CPX043418R9999	MA298XT	2CPX043414R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



MA292T

- Unpopulated for make ABB, fix-mounted installation,
  Tmax T4, 3-/4-pole, 105 mm/140 mm
  Tmax T5, 3/4-pole, 139.5 mm/186 mm
- Covers with cutout
- Mounting cross beam, including mounting holes with thread
- The mounting frame must be ordered separately
- Not suitable for fire protection housing

3	450	1	250	320	T4	3-/4-pole	36	●	●	215	MBA192T	2CPX041646R9999	MA192T	2CPX041121R9999
		1	250	400	T5	3-poles	36	●	●	215	MBA192T	2CPX041646R9999	MA192T	2CPX041121R9999
		2	500	630	T5	3-/4-pole	72	●	●	215	MBA292T	2CPX041647R9999	MA292T	2CPX041122R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame

Interior expansion system CombiLine N

Load break switch OT populated, MA...ALAB



MA160ALAB

- Populated with load break switches, make ABB type OT160G, 3-pole
- Covers with cutout
- Assembly on DIN rails 35 x 15 mm
- The mounting frame must be ordered separately

Height		Width		I_n	Equipment				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	A	Type	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
2	300	1	250	160	OT160G	24	●	●	200	-	-	MA160ALAB	2CPX041370R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



MA630ALAB

- Equipped with load break switches, make ABB OT, type OT... E03P
- Covers with cutout
- Mounting on mounting cross beam
- The mounting frame must be ordered separately
- Not suitable for fire protection housing, except for modules MA200ALAB and MA250ALAB

2	300	1	250	200	OT200E03P	24	●	●	200	-	-	MA200ALAB	2CPX041371R9999
				250	OT250E03P	24	●	●	200	-	-	MA250ALAB	2CPX041372R9999
3	450	2	500	400	OT400E03P	72	●	●	215	-	-	MA400ALAB	2CPX041373R9999
				630	OT630E03P	72	-	●	275	-	-	MA630ALAB	2CPX041374R9999
4	600	2	500	800	OT800E03P	72	-	●	325	-	-	MA800ALAB	2CPX041375R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame

Interior expansion system CombiLine N

Load break switch OT/OS/S750DR unpopulated, M(B)A...AL...



MA160ALA

- Unpopulated for load break switch, make ABB OT160M3 or main automatic fuse, make ABB S750DR
- 3-pole or 4-pole
- Covers without cutout
- Assembly on DIN rails 35 x 15 mm
- The mounting frame must be ordered separately

Height		Width		I_n	Useful width				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	A	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
2	300	1	250	160	216	24	●	●	200	MBA160ALA	2CPX041803R9999	MA160ALA	2CPX041376R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



MA250ALA

- Unpopulated for load break switch, make ABB OT200E...P – OT630E...P
- 3-pole or 4-pole
- Covers without cutout
- Mounting on mounting cross beam
- The mounting frame must be ordered separately
- Not suitable for fire protection housing, except for modules MBA250ALA and MA250ALA

2	300	1	250	250	-	24	●	●	200	MBA250ALA	2CPX041804R9999	MA250ALA	2CPX041377R9999
3	450	2	500	630	-	72	-	●	275	MBA630ALA	2CPX041805R9999	MA630ALA	2CPX041378R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



MBA250ALO

- Unpopulated for load break switch, make ABB OS
- Type OS160GD03PN3P for cabinet depth of 215 mm and above
- Type OS250GD03PN3P for cabinet depth of 225 mm and above
- Covers with cutout for rotary drive
- The mounting frame must be ordered separately
- Not suitable for fire protection housing

3	450	1	250	250	-	36	●	●	215/225	MBA250ALO	2CPX042101R9999	-	-

*1 Ausbau auf EDF-Montagegerüst | *2 Ausbau auf WR-Montagegerüst

Interior expansion system CombiLine N

Universal switch modules, M(B)A...A/line connection M(B)V...



MA630A



MA800A

- Unpopulated, universally usable for different equipment
- Cover without cutout
- With deep cross beams for variable adjustment
- Attachment of equipment via cage nuts
- The mounting frame must be ordered separately
- Not suitable for fire protection housing, except for modules MBA250A and MA250A

Height		Width		I_n	Useful width	Useful depth				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	A	mm	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
2	300	1	250	250	170	122	24	●	●	200	MBA250A	2CPX041807R9999	MA250A	2CPX041387R9999
3	450	2	500	630	420	122	72	●	●	215	MBA630A	2CPX041808R9999	MA630A	2CPX041388R9999
4	600	2	500	800	420	147	96	-	●	275	MBA800A	2CPX041806R9999	MA800A	2CPX041389R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



MA125ALT

- Unpopulated for make ABB, ATS Compact OTM40-125
- Covers with cutout, remaining cutout must be closed with cover strips
- Mounted on DIN-rail 35 x 15 mm
- The mounting frame must be ordered separately
- Not suitable for fire protection housing

Height		Width		I_n	Equipment					From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	A	Type	Polarity	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
1	150	2	500	40–125	XT2	3-/4-	24	●	●	215	MBA125ALT	2CPX043423R9999	MA125ALT	2CPX042837R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



MA400ALT

- Unpopulated for make ABB, ATS TruOne OX30-250, OX260-400, OX30-400
- Covers with cutout
- Mounted on mounting plate
- The mounting frame must be ordered separately
- Not suitable for fire protection housing

Height		Width		I_n	Equipment				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	A	Type	Polarity	PLE	WR*2	mm	Type	Order code	Type	Order code
		2	500	250	OXB200-250	2-/4-	72	●	275	MBA250ALT	2CPX043427R9999	MA250ALT	2CPX043425R9999
1	150	2	500	400	OXB315-400	2-/3-	72	●	275	MBA400ALT	2CPX043424R9999	MA400ALT	2CPX043422R9999
		3	750	400	OXB315-400	3-/4-	108	●	275	MBA401ALT	2CPX043428R9999	MA401ALT	2CPX043426R9999

*2 Expansion on WR mounting frame

Interior expansion system CombiLine N

Measuring devices/switch cabinet lighting, M(B)U...



MU257

- Unpopulated for 4 measuring devices with installation size 96 x 96 mm
- Arrangement of horizontal measuring devices
- Covers with cutout
- Mounting on mounting cross beam
- The mounting frame must be ordered separately

Height		Width		Measurement devices				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	Unit	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
1	150	2	500	4	24	●	●	225	MBU257	2CPX041809R9999	MU257	2CPX041390R9999
		3	750	4	36	●	●	225	MBU357	2CPX041810R9999	MU357	2CPX041391R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



MU158



MU156

- Unpopulated for 1 or 4 measuring devices with installation size 96 x 96 mm
- At a height of 450 mm with additional DIN rail for rail-mounted devices 12 PLE
- Covers with cutout
- Mounting on mounting cross beam
- The mounting frame must be ordered separately
- M4M only possible in combination with M(B)U156

1	150	1	250	1	12	●	●	225	MBU156	2CPX042043R9999	MU156	2CPX042042R9999
2	300	1	250	4	24	●	●	225	MBU157	2CPX041811R9999	MU157	2CPX041392R9999
3	450	1	250	4	36	●	●	225	MBU158	2CPX041812R9999	MU158	2CPX041393R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



MV281

- For the line link from the module to the switch cabinet door
- Covers with cutout for line connection
- With DIN rail and connection hose
- With accessories for securing the hose to the module and the switch cabinet door
- Note the door stop
- The mounting frame must be ordered separately
- Not suitable for fire protection housing
- Cannot be used in the H/HS cabinet

Height		Width		Hose diameter				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	∅	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
1	150	1	250	M20	12	●	●	225	MBV180	2CPX041815R9999	MV180	2CPX041396R9999
		1	250	M32	12	●	●	225	MBV181	2CPX041816R9999	MV181	2CPX041397R9999
		1	250	M40	12	●	●	225	MBV182	2CPX041817R9999	MV182	2CPX041398R9999
		2	500	M32	24	●	●	225	MBV281	2CPX041818R9999	MV281	2CPX041399R9999
		2	500	M40	24	●	●	225	MBV282	2CPX041819R9999	MV282	2CPX041400R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame

Interior expansion system CombiLine N

Cable clamp rails, M(B)F...83+84



MF283

- With cable clamp rail for relieving the strain on cables and lines
- Including a cable clamp rail for bolt clamps, see below
- Covers without cutout
- For cabinet depths up to 275 mm
- Cable clamp rail that is variably adjustable in depth via the deep angle piece ZW59P2
- Usable depth from 87 mm to 142 mm
- The mounting frame must be ordered separately

Height		Width					From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
1	150	1	250	12	●	●	200	MBF183	2CPX041822R9999	MF183	2CPX041403R9999
		2	500	24	●	●	200	MBF283	2CPX041823R9999	MF283	2CPX041404R9999
		3	750	36	●	●	200	MBF383	2CPX041824R9999	MF383	2CPX041405R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



MF284

- With cable clamp rail for relieving the strain on cables and lines
- Including a cable clamp rail for bolt clamps, see below
- Covers without cutout
- For cabinet depths up to 425 mm
- Cable clamp rail that is variably adjustable in depth via the deep angle piece ZW79P2
- Usable depth from 122 mm to 177 mm
- The mounting frame must be ordered separately

1	150	1	250	12	●	●	325	MBF184	2CPX041846R9999	MF184	2CPX041466R9999
		2	500	24	●	●	325	MBF284	2CPX041847R9999	MF284	2CPX041467R9999
		3	750	36	●	●	325	MBF384	2CPX041848R9999	MF384	2CPX041468R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



ZK143



ZK1431P100

Article	Unit	Type	Order code
Boltclamp For cable clamp rails			
from 22-28 mm	1	ZK143	2CPX060005R9999
from 40-46 mm	1	ZK144	2CPX060006R9999
from 64-70 mm	1	ZK145	2CPX060007R9999
Saddle clamps for bolt clamps			
For ZK143	100	ZK1431P100	2CPX060251R9999
For ZK144	100	ZK1441P100	2CPX060252R9999
For ZK145	50	ZK1451P50	2CPX060253R9999

Notes

Interior expansion system CombiLine N

Meter with three-point attachment and eHZ meter



MZ160



MZ161

- For meter with three-point attachment on counter carrying plate
- Only suitable for intermediate measurement
- With head part above and below
- Partitions may be necessary, single-story ZX70, double-story ZX72, see below
- The mounting frame must be ordered separately
- Not suitable for fire protection housing
- Observe planning information below

Height		Width		Meter				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	Unit	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
3	450	1	250	1	36	-	●	225	MBZ160	2CPX041820R9999	MZ160	2CPX041401R9999
5	750	1	250	2	60	-	●	225	MBZ161	2CPX041821R9999	MZ161	2CPX041402R9999

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame



MZ162



MZ163

- For eHZ meter
- Only suitable for intermediate measurement
- For receiving eHZ cartridge (BKE-I), see below
- With head part above and below
- ZX69 partitions may be necessary, see below
- The mounting frame must be ordered separately
- Not suitable for fire protection housing
- Observe planning information below

2	300	1	250	1	24	-	●	225	MBZ162	2CPX042034R9999	MZ162	2CPX042029R9999
2	300	1	250	2	24	-	●	225	MBZ163	2CPX042035R9999	MZ163	2CPX042030R9999

*1 Expansion on EDF mounting frame *2 Expansion on WR mounting frame

Planning information: Note the switch cabinet depth, distance between meter support plate and door at:
TwinLine-G, 225 mm depth = 126.5 - 139 mm, TwinLine-L, 275 mm depth = 141.5 - 154 mm, TwinLine-W, 350 mm depth = 168 - 180.5 mm
TriLine®, 325 mm depth = 148 mm, TriLine®, 425 mm depth = 198 mm
Important: Plan at least one module each with a width of 250 mm above and below the meter support plate

Interior expansion system CombiLine N

Meter with three-point attachment and eHZ meter

- For meter with three-point attachment on counter carrying plate
- Only suitable for intermediate measurement
- With head part above and below
- Partitions may be necessary, single-story ZX70, double-story ZX72, see below
- The mounting frame must be ordered separately
- Not suitable for fire protection housing
- Observe planning information below

MBZ170 / MBZ171 / MBZ172

Height		Width		Meter				From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	Unit	PLE	EDF*1	WR*2	mm	Type	Order code	Type	Order code
2	300	1	250	1	24	-	●	225	MBZ170	2CPX	MBZ170	2CPX
3	450	1	250	1	36	-	●	225	MBZ171	...	MBZ171	...
5	750	1	250	2	60	-	●	225	MBZ172	...	MBZ172	...

*1 Expansion on EDF mounting frame | *2 Expansion on WR mounting frame

- For eHZ meter
- Only suitable for intermediate measurement
- For receiving eHZ cartridge (BKE-I), see below
- With head part above and below
- ZX69 partitions may be necessary, see below
- The mounting frame must be ordered separately
- Not suitable for fire protection housing
- Observe planning information below

MBZ173 / MBZ174

3	450	1	250	1	36	-	●	225	MBZ173	...	MBZ173	...
3	450	1	250	2	36	-	●	225	MBZ174	...	MBZ174	...

*1 Expansion on EDF mounting frame *2 Expansion on WR mounting frame

ZX780 / ZX781 / ZX782

ZX70

VS659



Article	Height RE	BH	mm	Unit	Type	Order code
Vertical partitions, plastic For side touch protection in TwinLine-X, not fault arc-proof, to be ordered seperatly, only needed if meter panel is mounted on the side of TwinLine-X	2	000	300	1	ZX780	2CPX
	3	0	450	1	ZX781	...
	5	1	750	1	ZX782	...
Vertical partitions, plastic Not fault arc-proof, separation from adjacent module, distribution panel, meter panel, partition is inserted in adjacent module in the cover bracket, color similar to RAL 7035	3	00	450	1	ZX69	2CPX039069R9999
	4	0	600	1	ZX70	2CPX039070R9999
	6	2	900	1	ZX72	2CPX039072R9999
eHZ cartridge (BKE-I) with long inlet and outlet lines For electronic household meter (eHZ) With inlet lines 10 mm² L1, L2, L3 and N, length 1000 mm without ferrules With outlet lines 10 mm² L1, L2 and L3, length 1000 mm without ferrules				1	VS659	2CPX039932R9999

Interior expansion system CombiLine N

SMISSLINE TP 125 A horizontal or vertical build-up



MC203HS



MC303HS

- SMISSLINE TP modules for hortzontal device arrangement
- Extension with DIN ralls 35 x 15 mm
- Distance between DIN ralls 150 mm
- From 3 panels on the DIN ralls are equipped with an additional stabilization rall
- **Important**: The SMISSLINE TP socket system cannot be connected through from one module to the next
- The mounting frame must be ordered separately

Height		Width					From cabinet depth		Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	PLE	EDF*1	WR*2	mm	Unit	Type	Order code	Type	Order code
2	300	2	500	2x22	●	●	215	1	MBC202HS	2CPX042155R9999	MC202HS	2CPX042132R9999
	300	3	750	2x36	●	●	215	1	MBC302HS	2CPX042156R9999	MC302HS	2CPX042133R9999
3	450	2	500	3x22	●	●	215	1	MBC203HS	2CPX042157R9999	MC203HS	2CPX042134R9999
	450	3	750	3x36	●	●	215	1	MBC303HS	2CPX042158R9999	MC303HS	2CPX042135R9999
4	600	2	500	4x22	●	●	215	1	MBC204HS	2CPX042159R9999	MC204HS	2CPX042136R9999
	600	3	750	4x36	●	●	215	1	MBC304HS	2CPX042160R9999	MC304HS	2CPX042137R9999
5	750	2	500	5x22	●	●	215	1	MBC205HS	2CPX042161R9999	MC205HS	2CPX042138R9999
	750	3	750	5x36	●	●	215	1	MBC305HS	2CPX042162R9999	MC305HS	2CPX042139R9999



MC203VS



MC305VS

- SMISSLINE TP modules for vertical device arrangement
- Extension with DIN ralls 35 x 15 mm
- The DIN rall in the back are designed for standard N (N disconnection terminals) and PE terminals
- A cable laylng grid is included for cable fixing
- The DIN ralls and cable laying grids are flush with the module
- **Important**: Vertical cannot be mounted directly adjacent to horizontal cross members or centre support ralls
- The mounting frame must be ordered separately

Height		Width					From cabinet depth		Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	PLE	EDF*1	WR*2	mm	Unit	Type	Order code	Type	Order code
3	450	1	250	1x22	●	●	275	1	MBC103VS	2CPX042163R9999	MC103VS	2CPX042140R9999
	450	2	500	2x22	●	●	275	1	MBC203VS	2CPX042164R9999	MC203VS	2CPX042141R9999
4	600	1	250	1x30	●	●	275	1	MBC104VS	2CPX042165R9999	MC104VS	2CPX042142R9999
	600	2	500	2x30	●	●	275	1	MBC204VS	2CPX042166R9999	MC204VS	2CPX042143R9999
	600	3	750	3x30	●	●	275	1	MBC304VS	2CPX042169R9999	MC304VS	2CPX042913R9999
5	750	1	250	1x38	●	●	275	1	MBC105VS	2CPX042167R9999	MC105VS	2CPX042144R9999
	750	2	500	2x38	●	●	275	1	MBC205VS	2CPX042168R9999	MC205VS	2CPX042145R9999
	750	3	750	3x38	●	●	275	1	MBC305VS	2CPX042911R9999	MC305VS	2CPX042910R9999

Interior expansion system CombiLine N

SMISSLINE TP 250 A horizontal or vertical build-up



MC203HP



MC303HP

- SMISSLINE TP modules for hortzontal device arrangement
- Extension with DIN ralls 35 x 15 mm
- Distance between DIN ralls 150 mm
- From 3 panels on the DIN ralls are equipped with an additional stabilization rall
- **Important**: The SMISSLINE TP busbar system cannot be connected through from one module to the next
- The mounting frame must be ordered separately

Height		Width					From cabinet depth		Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	PLE	EDF*1	WR*2	mm	Unit	Type	Order code	Type	Order code
2	300	2	500	2x22	●	●	215	1	MBC202HP	2CPX043360R9999	MC202HP	2CPX043340R9999
	300	3	750	2x36	●	●	215	1	MBC302HP	2CPX043361R9999	MC302HP	2CPX043341R9999
3	450	2	500	3x22	●	●	215	1	MBC203HP	2CPX043362R9999	MC203HP	2CPX043342R9999
	450	3	750	3x36	●	●	215	1	MBC303HP	2CPX043363R9999	MC303HP	2CPX043343R9999
4	600	2	500	4x22	●	●	215	1	MBC204HP	2CPX043364R9999	MC204HP	2CPX043344R9999
	600	3	750	4x36	●	●	215	1	MBC304HP	2CPX043365R9999	MC304HP	2CPX043345R9999
5	750	2	500	5x22	●	●	215	1	MBC205HP	2CPX043366R9999	MC205HP	2CPX043346R9999
	750	3	750	5x36	●	●	215	1	MBC305HP	2CPX043367R9999	MC305HP	2CPX043347R9999



MC203VP



MC305VP

- SMISSLINE TP modules for vertical device arrangement
- Extension with DIN ralls 35 x 15 mm
- The DIN rall in the back are designed for standard N (N disconnection terminals) and PE terminals
- A cable laylng grid is included for cable fixing
- The DIN ralls and cable laying grids are flush with the module
- **Important**: Vertical modules cannot be mounted directly adjacent to horizontal cross members or centre support ralls
- The mounting frame must be ordered separately

Height		Width					From cabinet depth		Kit not installed		Mounted and installed in the cabinet	
RE	mm	FB	mm	PLE	EDF*1	WR*2	mm	Unit	Type	Order code	Type	Order code
3	450	2	250	2x22	●	●	275	1	MBC203VP	2CPX043369R9999	MC203VP	2CPX043349R9999
4	600	2	250	2x30	●	●	275	1	MBC204VP	2CPX043371R9999	MC204VP	2CPX043351R9999
	600	3	500	3x30	●	●	275	1	MBC304VP	2CPX043376R9999	MC304VP	2CPX043374R9999
5	750	2	250	2x38	●	●	275	1	MBC205VP	2CPX043373R9999	MC205VP	2CPX043353R9999
	750	3	750	3x38	●	●	275	1	MBC305VP	2CPX043377R9999	MC305VP	2CPX043375R9999

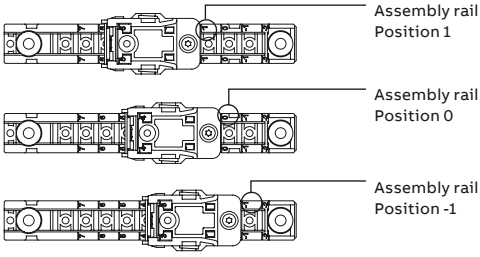
Interior expansion system CombiLine N

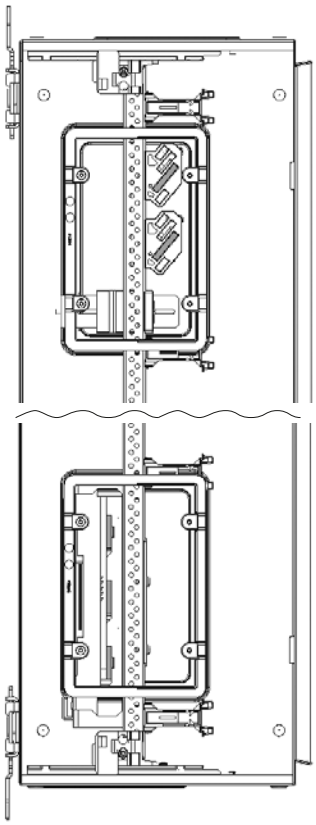
Module combinations for busbars TwinLine row mountings

The busbar systems for cabinet row mounting of the TwinLine cabinet system can be interconnected for various installation positions, the possible CombiLine N modules. There are modules that are interconnected in front of or behind the mounting frame due to the location of the busbar bracket.

If, for example, an N/PE busbar module is needed in the **top** of the cabinet and a busbar module is needed at the **bottom**, the possibility of combining the different modules must be taken into account. The different adjustment possibilities of the installation positions (1/0/-1) can be taken from the opposite side.

Assembly rail
Top view

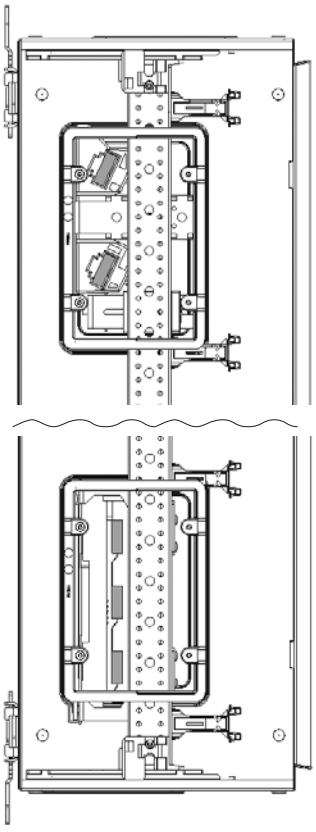




CombiLine N module
M(B)N...74 above

CombiLine N module
M(B)S...27 below

Example structure on EDF mounting frame
On mounting position 1 above and below
in the TwinLine-L cabinet, depth 275 mm



CombiLine N module
M(B)N...62 above

CombiLine N module
M(B)S...27 below

Example structure on WR mounting frame
On mounting position -1 above and below
in the TwinLine-L cabinet, depth 275 mm

Interior expansion system CombiLine N

Module combinations for busbars TwinLine row mountings

Possible combinations on EDF mounting frame

	Module type, above	M(B)S...24			M(B)S...27			M(B)N...74 M(B)N...75			M(B)N...62 M(B)N...63			M(B)R...02		
Module type, below	**Suitable for TwinLine**	**G**	**L**	**W**	**G**	**L**	**W**	**G**	**L**	**W**	**G**	**L**	**W**	**G**	**L**	**W**
M(B)S...24	**G**	1/0/-1			1/0/-1			1/0						1		
	L		1/0/-1			1/0/-1			1						1	
	W			1/0/-1			1/0/-1			1						1
M(B)S...27	**G**	1/0/-1			0 /-1			1/0						1		
	L		1/0/-1			1/0/-1			1 *						1	
	W			1/0/-1			1/0/-1			1						1
M(B)N...74 M(B)N...75	**G**	1/0			1/0			1/0						1		
	L		1			1			1						1	
	W			1			1			1						1
M(B)N...62 M(B)N...63	**G**															
	L															
	W															
M(B)R...02	**G**	1			1			1						1		
	L		1			1			1						1	
	W			1			1			1						1

> Cabinet depths TwinLine-G = 225 mm / TwinLine-L = 275 mm / TwinLine-W = 350 mm
* Mounting position of the example setup of the opposite side

Possible combinations on WR mounting frame

	Module type, above	M(B)S...24			M(B)S...27			M(B)N...74 M(B)N...75			M(B)N...62 M(B)N...63			M(B)R...02		
Module type, below	**Suitable for TwinLine**	**G**	**L**	**W**	**G**	**L**	**W**	**G**	**L**	**W**	**G**	**L**	**W**	**G**	**L**	**W**
M(B)S...24	**G**	-			-			-						-		
	L		-1			-1			-			-1			-	
	W			-1			-1			-			-1			-
M(B)S...27	**G**	-			-1			-						-		
	L		-1			-1			-			-1 *			-	
	W			-1			-1			-			-1			-
M(B)N...74 M(B)N...75	**G**	-			-			1/0						1		
	L		-			-			1			-			1	
	W			-			-			1			-			1
M(B)N...62 M(B)N...63	**G**															
	L		-1			-1			-			-1			-	
	W			-1			-1			-			-1			-
M(B)R...02	**G**	-			-			1						1		
	L		-			-			1			-			1	
	W			-			-			1			-			1

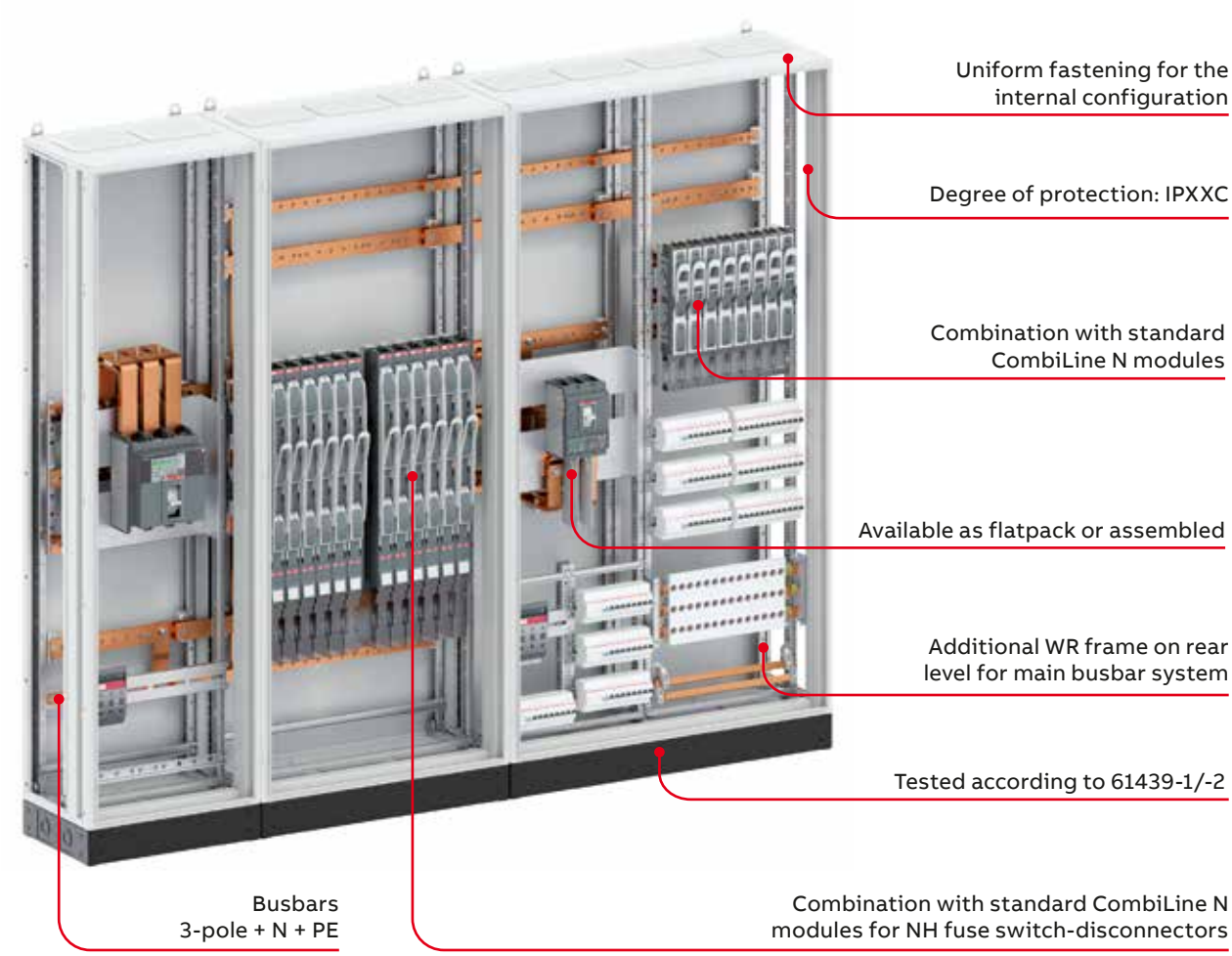
> Cabinet depths TwinLine-G = 225 mm / TwinLine-L = 275 mm / TwinLine-W = 350 mm

Legend for the tables
0 = Installation position 0 is possible
1 = Installation position 1 is possible
-1 = Installation position -1 is possible
1/0 = Installation positions 1 or 0 are possible
0/-1 = Installation positions 0 or -1 are possible
1/0/-1 = Installation positions1 and 0 and -1 are possible

Distribution panel system CombiLine-X

The extension for the TwinLine-X cabinet system

The extension of the CombiLine N modules up to 1000 A in combination with the TwinLine-X floor-standing enclosures offers new possibilities, especially for panel builders. The new solution optimally meets the practical requirements for a flexible internal configuration with a high degree of protection, quick in assembly, and an ease of installation. The CombiLine-X system is tested according to DIN EN 61439-1/2 and offers a high safety standard.



- Degree of protection: IPXXC
- Busbars: 3-pole + N + PE
- Main incomer: XT5/XT6/XT7 up to 1250 A; 3/4 pole
- Switch disconnector: OT up to 1.000 A, TruOne up to 800 A
- Rated current (I_n): up to 1.000 A
- Single WR-frame / double WR-Frame for MBB
- Connection between breaker/switches and MBB: 800 A + 1.000A 3P, 3+N
- DIN EN 61439-1/-2

Distribution panel system CombiLine-X

The suitable extension for the TwinLine-X cabinet system



Circuit breaker XT5/XT6/XT7



Switch disconnector OT



Automatic transfer switch TruOne



Connection busbar coopper







Main busbar system







N/PE busbar







Copper connection in / between cabinets







Distribution panel system CombiLine-X

Extension with WR mounting frame



TwinLine-X floor-standing cabinets
(earthed/double insulated)



Extension with CombiLine-X modules
on double WR mounting frame



Extension with standard CombiLine N
modules on WR mounting frame

Distribution panel system CombiLine-X

Technical specifications

Complete delivery
The module system panel is completely assembled on the mounting frame with all modules and is delivered installed in the distributor cabinet. The mounting frame must be ordered separately.

Advantage: From the list of CombiLine N modules, you chose the modules that are tailored to your object, thereby getting the correct low-voltage distribution in the easiest way.
The module control panel you have thus planned is delivered installed in the cabinet ex works. This way you do not have to spend time looking for system accessories, such as angle brackets, screws or retaining elements. All you need to do is choose the appropriate mounting frame. Our selection StriePlan can take care of this if desired.

Delivery as a kit
All of the individual parts required to assemble a module are delivered individually packaged as a kit with instructions for assembly. All you need to do is choose the appropriate mounting frame. The mounting frame must be ordered separately. Our software StriePlan will take care of choosing the mounting frame if desired.

Advantage: The kits allow you to be flexible when it comes to warehousing. You do not have to spend time looking for system accessories, such as angle brackets, screws or retaining elements. The enclosed instructions make assembly a breeze. Software support from StriePlan makes planning and calculation perfectly quick and clear.

Delivery in individual parts
The desired expansion parts are purchased individually in order to set up, expand or convert a module on your own.

Advantage: With a manageable number of individual parts, if necessary you can remain quick and flexible when it comes to setting up, expanding or converting distribution.

Distribution panel system CombiLine N CX, IP2XC			
DIN EN 61439-1/-2/-3 (VDE 0660-600-1/-2/-3)*	X		
DIN 43880 (rail mounting devices)	X		
Rated impulse withstand voltage (U_{imp})	6 kV		
Overvoltage category	III		
Degree of pollution	3		
Protection class	I/II		
Internal form of separation	Form 1		
Rated current of the switchgear assembly (I_{nA})	up to 1000 A		
	Rail mounting devices acc. to DIN 43880	NH fuses- Switch disconnectors	Busbars systems
Rated peak withstand current (I_{pk})	25 kA	up to 52 kA	up to 74 kA
Rated short-time withstand current (I_{cw})	12.5 kA	up to 25 kA	up to 35 kA
Rated frequency (f)	50 Hz		
Rated insulation voltage (U_i)	690 V AC		
Rated operational voltage (U_e)	400 V AC		

* The permissible heating for switchgear assemblies up to a rated current of 630 A can be verified with the procedure according to section 10.10.4.2; for the required power loss capacities, please refer to the tables of the respective cabinet series; above a rated current of 630 A, the procedure according to 10.10.4.3 (DIN EN 61439-1 Supplement 2, DIN VDE 0660-600-1 Supplement 2) shall be applied.

Distribution panel system CombiLine-X

Tmax circuit breaker unequipped (MX…LX)



MX212LX

- Incoming / outgoing module
- Unequipped for ABB circuit breaker, fixed assembly with connections on front side **Tmax (XT5, XT6, XT7) 3-/4-poles**
- With all cross profiles required and busbar holder ZX522

- The mounting frames must be ordered separately.

Important:

- To be ordered seperately: For XT5 ES terminals / for XT6 800 A EF terminals
- Dim. 150 mm - plan empty modules on the connection side
- One current transformer can be installed per phase

Height		Width		I_n	Equipment			From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
GU	mm	PW	mm	A	Type	SU	WR*2	mm	Type	Order code	Type	Order code
4	600	2	500	630	Switch module 630A XT5	96	2 x	400	MBX208LX	2CPX044092R9999	MX208LX	2CPX044101R9999
4	600	2	500	630	Switch module 630A XT5 RC, bottom	96	2 x	400	MBX208LXB	2CPX044093R9999	MX208LXB	2CPX044102R9999
4	600	2	500	1000	Switch module 1000A XT6	96	2 x	400	MBX210LX	2CPX044095R9999	MX210LX	2CPX044104R9999
4	600	2	500	1250	Switch module 1250A XT7	96	2 x	400	MBX212LX	2CPX044113R9999	MX212LX	2CPX044114R9999

> Modules to be positioned centrally in the height of the cabinet

Distribution panel system CombiLine-X

Automatic transfer switch OT unequipped (MX…LA)



MX208LAM

- Incoming / outgoing module
- Unequipped for ABB circuit breaker, fixed assembly with connections on front side
  OT switch 3-/4-poles
- With all cross profiles required and busbar holder ZX522
  The mounting frames must be ordered separately.

Height		Width		I_n	Equipment			From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
GU	mm	PW	mm	A	Type	SU	WR*2	mm	Type	Order code	Type	Order code
4	600	2	500	800	OT630-800 module, lever on the left	96	2 x	400	MBX208LAL	2CPX044096R9999	MX208LAL	2CPX044105R9999
4	600	2	500	800	OT630-800 module, lever in the centre	96	2 x	400	MBX208LAM	2CPX044097R9999	MX208LAM	2CPX044106R9999
4	600	3	750	1000	OT1000-1250 module, lever on the left	144	2 x	400	MBX310LAL	2CPX044098R9999	MX310LAL	2CPX044107R9999
4	600	3	750	1000	OT1000-1250 module, lever in the centre	144	2 x	400	MBX310LAM	2CPX044099R9999	MX310LAM	2CPX044108R9999

> Modules to be positioned centrally in the height of the cabinet

Distribution panel system CombiLine-X

Automatic transfer switch (ATS) TruONE unequipped (MX…LU)



MX308LU

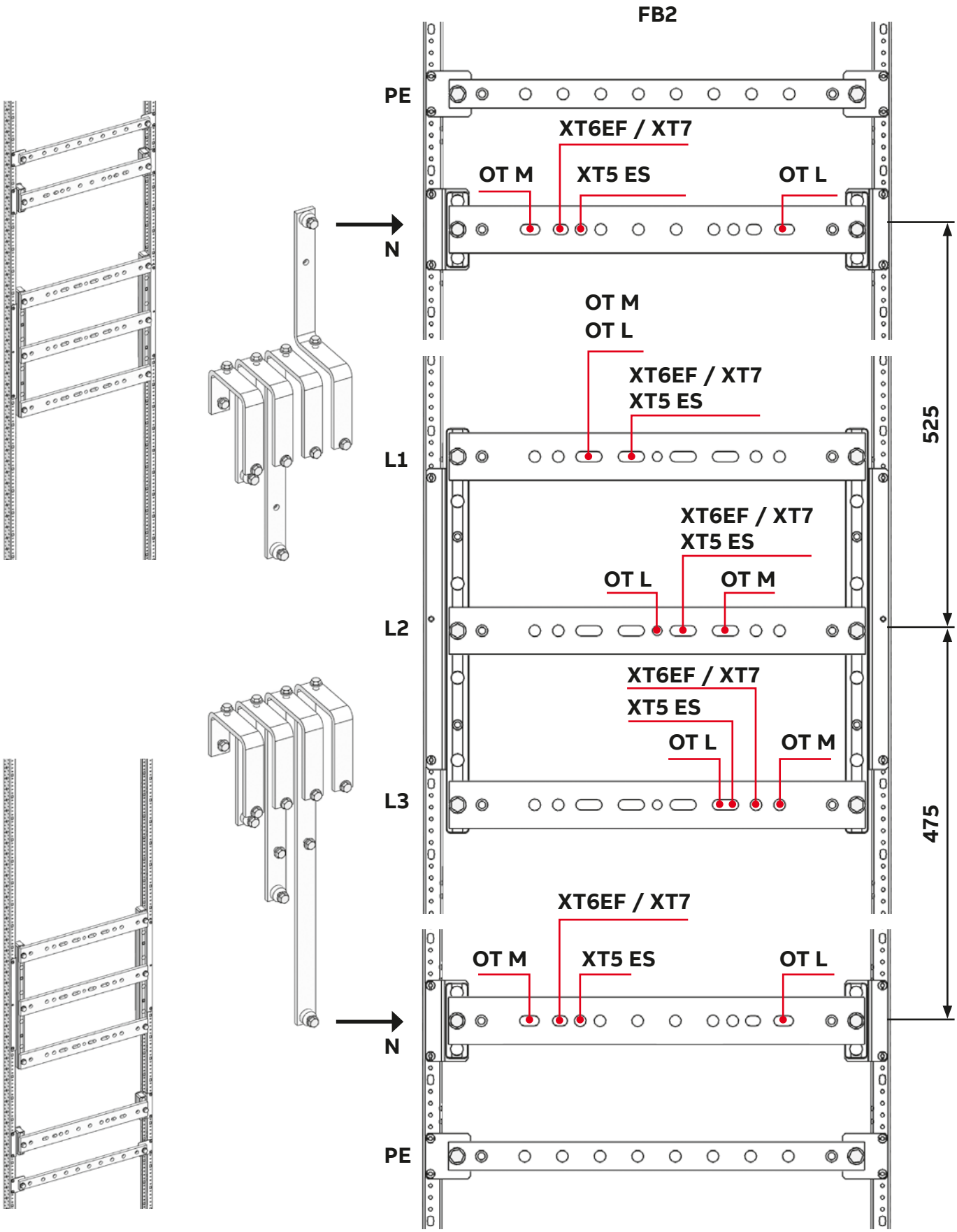
- Incoming terminal block
- Unequipped for ABB automatic transfer switch, fixed assembly with connections on front side
  ATS switch (TruOne)
  TruOne up 3-/4-poles
- With all cross profiles required and busbar holder ZX522
- The mounting frames must be ordered separately.

Height		Width		I_n	Equipment			From cabinet depth	Kit not installed		Mounted and installed in the cabinet	
GU	mm	PW	mm	A	Type	SU	WR*2	mm	Type	Order code	Type	Order code
4	600	3	750	800	ATS500-800 Module	144	2 x	400	MBX308LU	2CPX044100R9999	MX308LU	2CPX044109R9999

> Modules to be positioned centrally in the height of the cabinet

Distribution panel system CombiLine-X

N/PE horizontal busbar system 290 mm distance



Distribution panel system CombiLine-X

N/PE horizontal busbar system, (M(B)X.7.N)



MX271N

- For 2-pole busbars
- With busbar holder, type ZX563
- Starting from width 3 with fastening in centre
- Rated current (I_n) max. 1000 A
- The mounting frames must be ordered separately.
- Earthed version

Height		Width					From cabinet depth		Kit not installed		Mounted and installed in the cabinet	
GU	mm	OW	mm	SU	EDF*1	WR*2	mm	Unit	Type	Order code	Type	Artikelnummer
3	450	1	250	36		2 x	400	1	MBX171N	2CPX044115R9999	MX171N	2CPX044122R9999
		2	500	72		2 x	400	1	MBX271N	2CPX044116R9999	MX271N	2CPX044123R9999
		3	750	108		2 x	400	1	MBX371N	2CPX044117R9999	MX371N	2CPX044124R9999
4	600	1	250	48		2 x	400	1	MBX172N	2CPX044118R9999	MX172N	2CPX044125R9999
		2	500	96		2 x	400	1	MBX272N	2CPX044119R9999	MX272N	2CPX044126R9999
		3	750	144		2 x	400	1	MBX372N	2CPX044120R9999	MX372N	2CPX044127R9999



MX281N

- For 2-pole busbars
- With busbar holder, type ZX563
- Starting from width 3 with fastening in centre
- Rated current (I_n) max. 1000 A
- The mounting frames must be ordered separately.
- Double insulated version

Height		Width					From cabinet depth		Kit not installed		Mounted and installed in the cabinet	
GU	mm	PW	mm	SU	EDF*1	WR*2	mm	Unit	Type	Order code	Type	Artikelnummer
3	450	1	250	36		2 x	400	1	MBX181N	2CPX044128R9999	MX181N	2CPX044134R9999
		2	500	72		2 x	400	1	MBX281N	2CPX044129R9999	MX281N	2CPX044135R9999
		3	750	108		2 x	400	1	MBX381N	2CPX044130R9999	MX381N	2CPX044136R9999
4	600	1	250	48		2 x	400	1	MBX182N	2CPX044131R9999	MX182N	2CPX044137R9999
		2	500	96		2 x	400	1	MBX282N	2CPX044132R9999	MX282N	2CPX044138R9999
		3	750	144		2 x	400	1	MBX382N	2CPX044133R9999	MX382N	2CPX044139R9999

Distribution panel system CombiLine-X

Connection busbar system, Tmax circuit breaker



ZX2612

- Connection busbar system made of copper
- Connection of incoming/outgoing circuit-breaker to main busbar system
- ABB breaker **Tmax XT5**, fixed assembly with connections on front side (with ES connection, to be ordered separately)
- Distance between centres of connections 58 mm
- One current transformer can be installed per phase
- Including all fastening screws for connecting the circuit-breaker and supporting set

Important:

- holder set not included in scope of delivery and to be ordered separately
- ES terminals to be ordered separately

Cu busbars	I_n			Kit not installed		Mounted and installed in the cabinet	
mm	A	Description	Unit	Type	Order code	Type	Order code
40 x 10	630	3 poles	1	ZX2610	2CPX044242R9999	ZXM2610	2CPX044315R9999
40 x 10	630	3-pole + N on top	1	ZX2611	2CPX044243R9999	ZXM2611	2CPX044316R9999
40 x 10	630	3-pole + N on bottom	1	ZX2612	2CPX044244R9999	ZXM2612	2CPX044317R9999

> N on top = N across from breaker conection side; N on bottom = N on same side as breaker conncetion side



ZX2615

- Connection busbar system made of copper
- Connection of incoming/outgoing circuit-breaker to main busbar system
- ABB breaker **Tmax XT6 (800 A)**, fixed assembly with connections on front side (with EF connection, to be ordered separately)
- Distance between centres of connections 70.0 mm
- One current transformer can be installed per phase
- Including all fastening screws for connecting the circuit-breaker and supporting set

Important:

- holder set not included in scope of delivery and to be ordered separately
- EF terminals to be ordered separately

Cu busbars	I_n			Kit not installed		Mounted and installed in the cabinet	
mm	A	Description	Unit	Type	Order code	Type	Order code
40 x 10	800	3 poles	1	ZX2613	2CPX044245R9999	ZXM2613	2CPX044318R9999
40 x 10	800	3-pole + N on top	1	ZX2614	2CPX044246R9999	ZXM2614	2CPX044319R9999
40 x 10	800	3-pole + N on bottom	1	ZX2615	2CPX044247R9999	ZXM2615	2CPX044320R9999

> N on top = N across from breaker conection side; N on bottom = N on same side as breaker conncetion side

Distribution panel system CombiLine-X

Connection busbar system, Tmax circuit breaker



ZX2618

- Connection busbar system made of copper
- Connection of incoming/outgoing circuit-breaker to main busbar system
- ABB breaker **Tmax XT6 (1000 A)**, fixed assembly with connections on front side
- Distance between centres of connections 70.0 mm
- One current transformer can be installed per phase
- Including all fastening screws for connecting the circuit-breaker and supporting set

Important:

- holder set not included in scope of delivery and to be ordered separately

Cu busbars	I_n			Kit not installed			Mounted and installed in the cabinet	
mm	A	Description	Unit	Type	Order code	EUR	Type	Order code
50 x 10	1000	3 poles	1	ZX2616	2CPX044248R9999	515.00	ZXM2616	2CPX044321R9999
50 x 10	1000	3-pole + N on top	1	ZX2617	2CPX044249R9999	672.00	ZXM2617	2CPX044322R9999
50 x 10	1000	3-pole + N on bottom	1	ZX2618	2CPX044250R9999	743.00	ZXM2618	2CPX044323R9999

> N on top = N across from breaker conection side; N on bottom = N on same side as breaker conncetion side



ZX2633

- Connection busbar system made of copper
- Connection of incoming/outgoing circuit-breaker to main busbar system
- ABB breaker **Tmax XT7 (1250 A)**, fixed assembly with connections on front side
- Distance between centres of connections 70.0 mm
- One current transformer can be installed per phase
- Including all fastening screws for connecting the circuit-breaker and supporting set

Important:

- holder set not included in scope of delivery and to be ordered separately

Cu busbars	I_n			Kit not installed			Mounted and installed in the cabinet	
mm	A	Description	Unit	Type	Order code	EUR	Type	Order code
2 x 50 x 10	1000	3 poles	1	ZX2631	2CPX044428R9999	644.00	ZXM2631	2CPX044431R9999
2 x 50 x 10	1000	3-pole + N on top	1	ZX2632	2CPX044429R9999	806.00	ZXM2632	2CPX044432R9999
2 x 50 x 10	1000	3-pole + N on bottom	1	ZX2633	2CPX044430R9999	896.00	ZXM2633	2CPX044433R9999

> N on top = N across from breaker conection side; N on bottom = N on same side as breaker conncetion side

Distribution panel system CombiLine-X

Connection busbar system, OT/ATS switches



ZX2621

- Connection busbar system made of copper
- Connection of incoming/outgoing circuit-breaker to main busbar system
- ABB breaker **OT800 (800 A)**, fixed assembly with connections on front side
- Distance between centres of connections 65.0 mm
- One current transformer can be installed per phase
- Including all fastening screws for connecting the circuit-breaker and supporting set

Important:

- holder set not included in scope of delivery and to be ordered separately

Cu busbars	I_n			Kit not installed		Mounted and installed in the cabinet	
mm	A	Description	Unit	Type	Order code	Type	Order code
40 x 10	800	3 poles	1	ZX2619	2CPX044251R9999	ZXM2619	2CPX044324R9999
40 x 10	800	3-pole + N on top	1	ZX2620	2CPX044252R9999	ZXM2620	2CPX044325R9999
40 x 10	800	3-pole + N on bottom	1	ZX2621	2CPX044253R9999	ZXM2621	2CPX044326R9999

> N on top = N across from breaker conection side; N on bottom = N on same side as breaker conncetion side



ZX2624

- Connection busbar system made of copper
- Connection of incoming/outgoing circuit-breaker to main busbar system
- ABB breaker **OT1000-1250 (800 A)**, fixed assembly with connections on front side
- Distance between centres of connections 70.0 mm
- One current transformer can be installed per phase
- Including all fastening screws for connecting the circuit-breaker and supporting set

Important:

- holder set not included in scope of delivery and to be ordered separately

Cu busbars	I_n			Kit not installed		Mounted and installed in the cabinet	
mm	A	Description	Unit	Type	Order code	Type	Order code
40 x 10	800	3 poles	1	ZX2622	2CPX044254R9999	ZXM2622	2CPX044327R9999
40 x 10	800	3-pole + N on top	1	ZX2623	2CPX044255R9999	ZXM2623	2CPX044328R9999
40 x 10	800	3-pole + N on bottom	1	ZX2624	2CPX044256R9999	ZXM2624	2CPX044329R9999

> N on top = N across from breaker conection side; N on bottom = N on same side as breaker conncetion side

Distribution panel system CombiLine-X

Connection busbar system, OT/ATS switches



- Connection busbar system made of copper
- Connection of incoming/outgoing circuit-breaker to main busbar system
- ABB breaker **OT1000-1250 (1000 A)**, fixed assembly with connections on front side
- Distance between centres of connections 65.0 mm
- One current transformer can be installed per phase
- Including all fastening screws for connecting the circuit-breaker and supporting set

Important:

- holder set not included in scope of delivery and to be ordered separately

ZX2627

Cu busbars	I_n			Kit not installed		Mounted and installed in the cabinet	
mm	A	Description	Unit	Type	Order code	Type	Order code
50 x 10	1000	3 poles	1	ZX2625	2CPX044257R9999	ZXM2625	2CPX044330R9999
50 x 10	1000	3-pole + N on top	1	ZX2626	2CPX044258R9999	ZXM2626	2CPX044331R9999
50 x 10	1000	3-pole + N on bottom	1	ZX2627	2CPX044259R9999	ZXM2627	2CPX044332R9999

> N on top = N across from breaker conection side; N on bottom = N on same side as breaker conncetion side



- Connection busbar system made of copper
- Connection of incoming/outgoing circuit-breaker to main busbar system
- ABB breaker **ATS800 (800 A)**, fixed assembly with connections on front side
- Distance between centres of connections 65.0 mm
- One current transformer can be installed per phase
- Including all fastening screws for connecting the circuit-breaker and supporting set

Important:

- holder set not included in scope of delivery and to be ordered separately

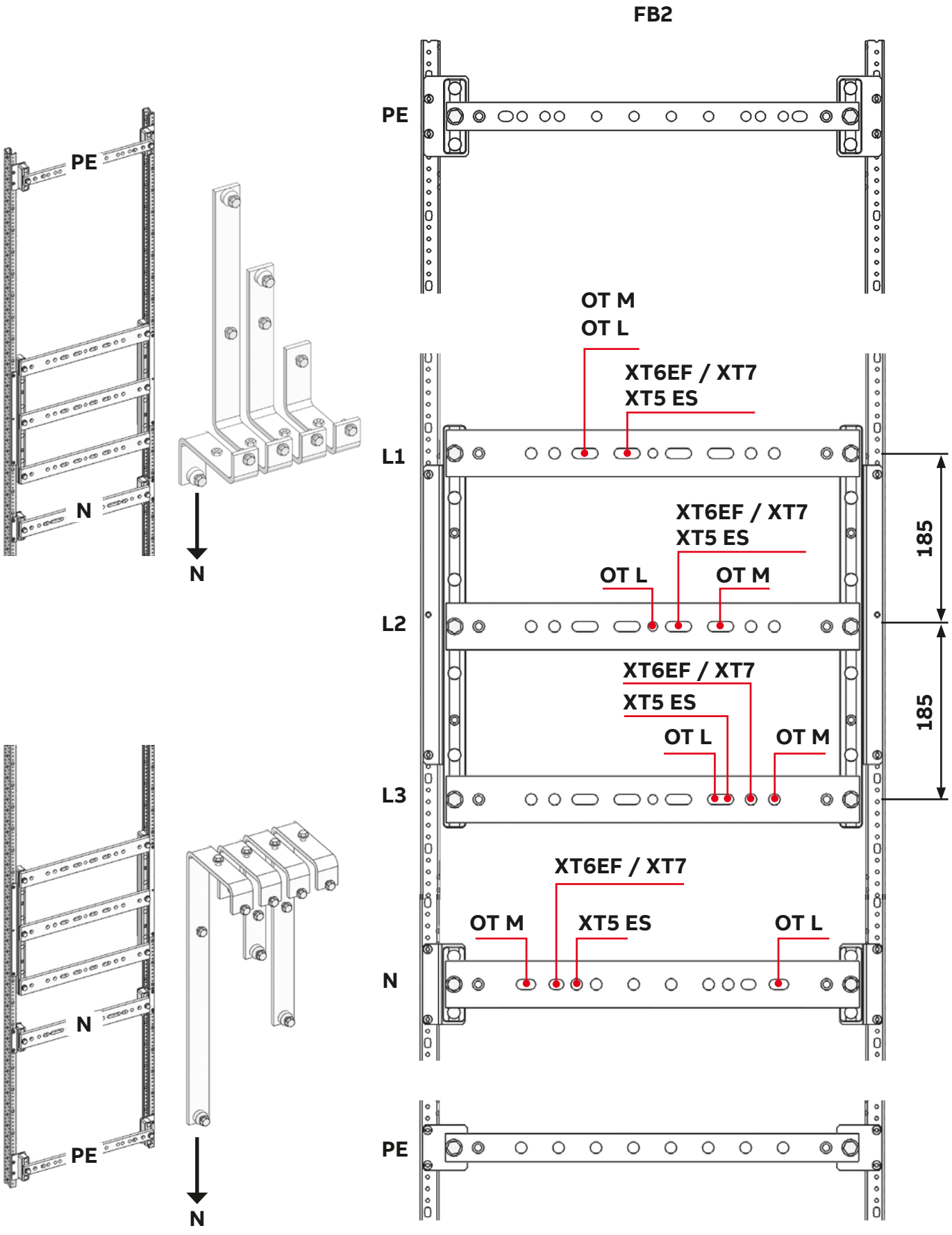
ZX2630

Cu busbars	I_n			Kit not installed		Mounted and installed in the cabinet	
mm	A	Description	Unit	Type	Order code	Type	Order code
40 x 10	800	3 poles	1	ZX2628	2CPX044260R9999	ZXM2628	2CPX044333R9999
40 x 10	800	3-pole + N on top	1	ZX2629	2CPX044261R9999	ZXM2629	2CPX044334R9999
40 x 10	800	3-pole + N on bottom	1	ZX2630	2CPX044262R9999	ZXM2630	2CPX044335R9999

> N on top = N across from breaker conection side; N on bottom = N on same side as breaker conncetion side

Distribution panel system CombiLine-X

N/PE horizontal busbar system 185mm distance



Distribution panel system CombiLine-X

N/PE horizontal busbar system, M(B)X.7.N / M(B)X.7.P / M(B)X.8.P



MX270N

- For N-busbars
- With busbar holder, type ZX563
- Starting from width 3 with fastening in centre
- Rated current (I_n) max. 1000 A
- The mounting frames must be ordered separately
- Earthed and double insulated version

Height		Width					From cabinet depth		Kit not installed		Mounted and installed in the cabinet	
GU	mm	OW	mm	SU	EDF*1	WR*2	mm	Unit	Type	Order code	Type	Order code
1	150	1	250	12		2 x	400	1	MBX170N	2CPX044161R9999	MX170N	2CPX044140R9999
		2	500	24		2 x	400	1	MBX270N	2CPX044162R9999	MX270N	2CPX044141R9999
		3	750	36		2 x	400	1	MBX370N	2CPX044163R9999	MX370N	2CPX044142R9999

* N module always mounted below incomer/outgoing module (4-pole-system)



MX270P

- For PE-busbars
- Starting from width 3 with fastening in centre
- Rated current (I_n) max. 1000 A
- The mounting frames must be ordered separately.
- Earthed version

Height		Width					From cabinet depth		Kit not installed		Mounted and installed in the cabinet	
GU	mm	PW	mm	SU	EDF*1	WR*2	mm	Unit	Type	Order code	Type	Order code
1	150	1	250	12		2 x	400	1	MBX170P	2CPX044164R9999	MX170P	2CPX044143R9999
		2	500	24		2 x	400	1	MBX270P	2CPX044165R9999	MX270P	2CPX044144R9999
		3	750	26		2 x	400	1	MBX370P	2CPX044166R9999	MX370P	2CPX044145R9999

* PE module can be mounted on top/bottom side of the enclosure



MX280P

- For PE-busbars
- With busbar holder, type ZX563
- Starting from width 3 with fastening in centre
- Rated current (I_n) max. 1000 A
- The mounting frames must be ordered separately
- Double insulated version

Height		Width					From cabinet depth		Kit not installed		Mounted and installed in the cabinet	
GU	mm	OW	mm	SU	EDF*1	WR*2	mm	Unit	Type	Order code	Type	Order code
1	150	1	250	12		2 x	400	1	MBX180P	2CPX044167R9999	MX180P	2CPX044146R9999
		2	500	24		2 x	400	1	MBX280P	2CPX044168R9999	MX280P	2CPX044147R9999
		3	750	36		2 x	400	1	MBX380P	2CPX044169R9999	MX380P	2CPX044148R9999

* PE module can be mounted on top/bottom side of the enclosure

Distribution panel system CombiLine-X

Connection busbar system, Tmax circuit breaker



ZX2912

- Connection busbar system made of copper
- Connection of incoming/outgoing circuit-breaker to main busbar system
- ABB breaker **Tmax XT5**, fixed assembly with connections on front side (with ES connection, to be ordered separately)
- Distance between centres of connections 58 mm
- One current transformer can be installed per phase
- Including all fastening screws for connecting the circuit-breaker and supporting set

Important:

- Holder set not included in scope of delivery and to be ordered separately
- ES terminals to be ordered separately

Cu busbars	I_n			Kit not installed		Mounted and installed in the cabinet	
mm	A	Description	Unit	Type	Order code	Type	Order code
40 x 10	630	3-pole + N / cable connection on top	1	ZX2911	2CPX044445R9999	ZXM2911	2CPX044461R9999
40 x 10	630	3-pole + N / cable connection on bottom	1	ZX2912	2CPX044446R9999	ZXM2912	2CPX044462R9999



ZX2915

- Connection busbar system made of copper
- Connection of incoming/outgoing circuit-breaker to main busbar system
- ABB breaker **Tmax XT6 (800 A)**, fixed assembly with connections on front side (with EF connection, to be ordered separately)
- Distance between centres of connections 70.0 mm
- One current transformer can be installed per phase
- Including all fastening screws for connecting the circuit-breaker and supporting set

Important:

- Holder set not included in scope of delivery and to be ordered separately
- EF terminals to be ordered separately

Cu busbars	I_n			Kit not installed		Mounted and installed in the cabinet	
mm	A	Description	Unit	Type	Order code	Type	Order code
40 x 10	800	3-pole + N / cable connection on top	1	ZX2914	2CPX044447R9999	ZXM2914	2CPX044463R9999
40 x 10	800	3-pole + N / cable connection on bottom	1	ZX2915	2CPX044448R9999	ZXM2915	2CPX044464R9999

Distribution panel system CombiLine-X

Connection busbar system, Tmax circuit breaker



ZX2918

- Connection busbar system made of copper
- Connection of incoming/outgoing circuit-breaker to main busbar system
- ABB breaker **Tmax XT6 (1000 A)**, fixed assembly with connections on front side
- Distance between centres of connections 70.0 mm
- One current transformer can be installed per phase
- Including all fastening screws for connecting the circuit-breaker and supporting set

Important:

- Holder set not included in scope of delivery and to be ordered separately

Cu busbars	I_n			Kit not installed			Mounted and installed in the cabinet	
mm	A	Description	Unit	Type	Order code	EUR	Type	Order code
50 x 10	1000	3-pole + N / cable connection on top	1	ZX2917	2CPX044449R9999	672.00	ZXM2917	2CPX044465R9999
50 x 10	1000	3-pole + N / cable connection on bottom	1	ZX2918	2CPX044450R9999	743.00	ZXM2918	2CPX044466R9999



ZX2933

- Connection busbar system made of copper
- Connection of incoming/outgoing circuit-breaker to main busbar system
- ABB breaker **Tmax XT7 (1250 A)**, fixed assembly with connections on front side
- Distance between centres of connections 70.0 mm
- One current transformer can be installed per phase
- Including all fastening screws for connecting the circuit-breaker and supporting set

Important:

- Holder set not included in scope of delivery and to be ordered separately

Cu busbars	I_n			Kit not installed			Mounted and installed in the cabinet	
mm	A	Description	Unit	Type	Order code	EUR	Type	Order code
2 x 50 x 10	1000	3-pole + N / cable connection on top	1	ZX2932	2CPX044421R9999	806.00	ZXM2932	2CPX044467R9999
2 x 50 x 10	1000	3-pole + N / cable connection on bottom	1	ZX2933	2CPX044452R9999	896.00	ZXM2933	2CPX044468R9999

Distribution panel system CombiLine-X

Connection busbar system, OT/ATS switches



ZX2921

- Connection busbar system made of copper
- Connection of incoming/outgoing circuit-breaker to main busbar system
- ABB breaker **OT800 (800 A)**, fixed assembly with connections on front side
- Distance between centres of connections 65.0 mm
- One current transformer can be installed per phase
- Including all fastening screws for connecting the circuit-breaker and supporting set

Important:

- Holder set not included in scope of delivery and to be ordered separately

Cu busbars	I_n			Kit not installed		Mounted and installed in the cabinet	
mm	A	Description	Unit	Type	Order code	Type	Order code
40 x 10	800	3-pole + N / cable connection on top	1	ZX2920	2CPX044453R9999	ZXM2920	2CPX044469R9999
40 x 10	800	3-pole + N / cable connection on bottom	1	ZX2921	2CPX044454R9999	ZXM2921	2CPX044470R9999



ZX2924

- Connection busbar system made of copper
- Connection of incoming/outgoing circuit-breaker to main busbar system
- ABB breaker **OT1000-1250 (800 A)**, fixed assembly with connections on front side
- Distance between centres of connections 70.0 mm
- One current transformer can be installed per phase
- Including all fastening screws for connecting the circuit-breaker and supporting set

Important:

- Holder set not included in scope of delivery and to be ordered separately

Cu busbars	I_n			Kit not installed		Mounted and installed in the cabinet	
mm	A	Description	Unit	Type	Order code	Type	Order code
40 x 10	800	3-pole + N / cable connection on top	1	ZX2923	2CPX044455R9999	ZXM2923	2CPX044471R9999
40 x 10	800	3-pole + N / cable connection on bottom	1	ZX2924	2CPX044456R9999	ZXM2924	2CPX044472R9999

Distribution panel system CombiLine-X

Connection busbar system, OT/ATS switches



ZX2927

- Connection busbar system made of copper
- Connection of incoming/outgoing circuit-breaker to main busbar system
- ABB breaker **OT1000-1250 (1000 A)**, fixed assembly with connections on front side
- Distance between centres of connections 65.0 mm
- One current transformer can be installed per phase
- Including all fastening screws for connecting the circuit-breaker and supporting set

Important:

- Holder set not included in scope of delivery and to be ordered separately

Cu busbars	I_n			Kit not installed		Mounted and installed in the cabinet	
mm	A	Description	Unit	Type	Order code	Type	Order code
50 x 10	1000	3-pole + N / cable connection on top	1	ZX2926	2CPX044457R9999	ZXM2926	2CPX044473R9999
50 x 10	1000	3-pole + N / cable connection on bottom	1	ZX2927	2CPX044458R9999	ZXM2927	2CPX044474R9999



ZX2930

- Connection busbar system made of copper
- Connection of incoming/outgoing circuit-breaker to main busbar system
- ABB breaker **ATS800 (800 A)**, fixed assembly with connections on front side
- Distance between centres of connections 65.0 mm
- One current transformer can be installed per phase
- Including all fastening screws for connecting the circuit-breaker and supporting set

Important:

- Holder set not included in scope of delivery and to be ordered separately

Cu busbars	I_n			Kit not installed		Mounted and installed in the cabinet	
mm	A	Description	Unit	Type	Order code	Type	Order code
40 x 10	800	3-pole + N / cable connection on top	1	ZX2929	2CPX044459R9999	ZXM2929	2CPX044475R9999
40 x 10	800	3-pole + N / cable connection on bottom	1	ZX2930	2CPX044460R9999	ZXM2930	2CPX044476R9999

Distribution panel system CombiLine-X

holder set connecting busbar system



ZX2652

- Connecting busbar system holder set made of GFRP
- Connection of incoming/outgoing module to the main busbar system
- ABB **Tmax XT5** switch, fixed assembly with connections on front side
- Distance between centres of connections 46.5 mm

Cu busbars	I_n				Kit not installed		Mounted and installed in the cabinet	
mm	A	Description	CBB holder L	Unit	Type	Order code	Type	Order code
40 x 10	630	3-pole	148 mm	2	ZX2650	2CPX044410R9999	ZXM2650	2CPX044390R9999
40 x 10	630	3-pole + N on top	202 mm	2	ZX2651	2CPX044411R9999	ZXM2651	2CPX044391R9999
40 x 10	630	3-pole + N on bottom	202 mm	2	ZX2652	2CPX044412R9999	ZXM2652	2CPX044392R9999

> N on top = N across from breaker conection side; N on bottom = N on same side as breaker conncetion side



ZX2658

- Connecting busbar system holder set made of GFRP
- Connection of incoming/outgoing module to the main busbar system
- ABB **Tmax XT6/XT7** switch, fixed assembly with connections on front side
- Distance between centres of connections 70.0 mm

Cu busbars	I_n				Kit not installed		Mounted and installed in the cabinet	
mm	A	Description	CBB holder L	Unit	Type	Order code	Type	Order code
40 x 10/50 x 10	800/1000	3-pole	190 mm	2	ZX2656	2CPX044413R9999	ZXM2656	2CPX044393R9999
40 x 10/50 x 10	800/1000	3-pole + N on top	260 mm	2	ZX2657	2CPX044414R9999	ZXM2657	2CPX044394R9999
40 x 10/50 x 10	800/1000	3-pole + N on bottom	260 mm	2	ZX2658	2CPX044415R9999	ZXM2658	2CPX044395R9999

> N on top = N across from breaker conection side; N on bottom = N on same side as breaker conncetion side



ZX2661

- Connecting busbar system holder set made of GFRP
- Connection of incoming/outgoing module for main busbar system
- ABB **OT800 (800 A) lever on the left/ATS500-800**, fixed assembly with connections on front side
- Distance between centres of connections 65.0 mm

Cu busbars	I_n				Kit not installed		Mounted and installed in the cabinet	
mm	A	Description	CBB holder L	Unit	Type	Order code	Type	Order code
40 x 10	800	3 poles	170 mm	2	ZX2659	2CPX044416R9999	ZXM2659	2CPX044396R9999
40 x 10	800	3-pole + N on top	235 mm	2	ZX2660	2CPX044417R9999	ZXM2660	2CPX044397R9999
40 x 10	800	3-pole + N on bottom	235 mm	2	ZX2661	2CPX044418R9999	ZXM2661	2CPX044398R9999

> N on top = N across from breaker conection side; N on bottom = N on same side as breaker conncetion side

Distribution panel system CombiLine-X

holder set connecting busbar system



ZX2664

- Connecting busbar system holder set made of GFRP
- Connection of incoming/outgoing module to the main busbar system
- ABB **OT800 (800 A) lever in the centre**, fixed assembly with connections on front side
- Distance between centres of connections 65.0 mm

Cu busbars	I_n				Kit not installed		Mounted and installed in the cabinet	
mm	A	Description	CBB holder L	Unit	Type	Order code	Type	Order code
40 x 10	800	3-pole	35 mm	2	ZX2662	2CPX044419R9999	ZXM2662	2CPX044399R9999
40 x 10	800	3-pole + N on top	300 mm	2	ZX2663	2CPX044420R9999	ZXM2663	2CPX044400R9999
40 x 10	800	3-pole + N on bottom	300 mm	2	ZX2664	2CPX044421R9999	ZXM2664	2CPX044401R9999

> N on top = N across from breaker conection side; N on bottom = N on same side as breaker conncetion side



ZX2667

- Connecting busbar system holder set made of GFRP
- Connection of incoming/outgoing module to the main busbar system
- ABB switch **OT1000-1250 (1000 A) lever on the left**, fixed assembly with connections on front side
  Distance between centres of connections 80.0 mm

Cu busbars	I_n				Kit not installed		Mounted and installed in the cabinet	
mm	A	Description	CBB holder L	Unit	Type	Order code	Type	Order code
50 x 10	1000	3-pole	210 mm	2	ZX2665	2CPX044422R9999	ZXM2665	2CPX044402R9999
50 x 10	1000	3-pole + N on top	290 mm	2	ZX2666	2CPX044423R9999	ZXM2666	2CPX044403R9999
50 x 10	1000	3-pole + N on bottom	290 mm	2	ZX2667	2CPX044424R9999	ZXM2667	2CPX044404R9999

> N on top = N across from breaker conection side; N on bottom = N on same side as breaker conncetion side



ZX2670

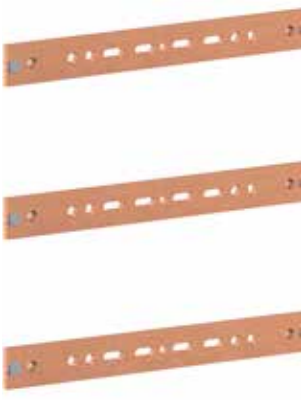
- Connecting busbar system holder set made of GFRP
- Connection of incoming/outgoing module to the main busbar system
- ABB switch **OT1000-1250 (1000 A) lever in the centre** , fixed assembly with connections on front side
- Distance between centres of connections 80.0 mm

Cu busbars	I_n				Kit not installed		Mounted and installed in the cabinet	
mm	A	Description	CBB holder L	Unit	Type	Order code	Type	Order code
50 x 10	1000	3-pole	290 mm	2	ZX2668	2CPX044425R9999	ZXM2668	2CPX044405R9999
50 x 10	1000	3-pole + N on top	374 mm	2	ZX2669	2CPX044426R9999	ZXM2669	2CPX044406R9999
50 x 10	1000	3-pole + N on bottom	300 mm	2	ZX2670	2CPX044427R9999	ZXM2670	2CPX044407R9999

> N on top = N across from breaker conection side; N on bottom = N on same side as breaker conncetion side

Distribution panel system CombiLine-X

Main busbar system (MBB) and holder set



ZX2692

- Universal busbars made of copper
- For incoming/outgoing modules
- Prepared to be fitted with **XT5/XT6/XT7/OT630-800-1000-1250/ATS500-800**
- Including fastening elements
- For the position of the different switch variants see mounting instructions
- Prepared for side-by-side cabinet connection on both sides

	I_n	Cu busbars			Flatpack not assembled		Assembled Fitted in the cabinet	
PW	A	mm	Description	Unit	Type	Order code	Type	Order code
2	630	30 x 10	HSS 630 A	3	ZX2690	2CPX044263R9999	ZXM2690	2CPX044336R9999
	850	40 x 10	XT5/XT6/XT7/OT630-800	3	ZX2691	2CPX044264R9999	ZXM2691	2CPX044337R9999
	1000	50 x 10	XT5/XT6/XT7/OT630-800	3	ZX2692	2CPX044265R9999	ZXM2692	2CPX044338R9999
3	630	30 x 10	HSS 630 A	3	ZX2693	2CPX044266R9999	ZXM2693	2CPX044339R9999
	850	40 x 10	OT1000-1250/ATS500-800	3	ZX2694	2CPX044267R9999	ZXM2694	2CPX044340R9999
	1000	50 x 10	OT1000-1250/ATS500-800	3	ZX2695	2CPX044268R9999	ZXM2695	2CPX044341R9999

Article	Description	Unit	Flatpack not assembled		Assembled Fitted in the cabinet	
			Type	Order code	Type	Order code
 ZX2700	MBB holder set 185 mm For PW 2 and 3, consisting of brackets (ZX522) and busbar holders, incl. fastening material*	1	ZX2700	2CPX044408R9999	ZXM2700	2CPX044388R9999

* included in the modules' scope of delivery

Distribution panel system CombiLine-X

N/PE busbars and holder set



ZX2722

- N/PE Universal busbars made of copper
- For incoming/outgoing modules
- Including fastening elements
- For the position of the different switch variants see mounting instructions
- Prepared for side-by-side cabinet connection on both sides
- The current carrying capacity is 100 % of the outer conductors of the MBB.

	I_n	Cu busbars			Kit not installed		Mounted and installed in the cabinet	
PW	A	mm	Description	Unit	Type	Order code	Type	Order code
1	630	30 x 10	N/PE 630 A	1	ZX2717	2CPX042333R9999	ZXM2717	2CPX042441R9999
	850	40 x 10	N/PE 850 A	1	ZX2718	2CPX042334R9999	ZXM2718	2CPX042442R9999
	1000	50 x 10	N/PE 1000 A	1	ZX2719	2CPX042335R9999	ZXM2719	2CPX042443R9999
2	630	30 x 10	N/PE 630 A	1	ZX2720	2CPX044269R9999	ZXM2720	2CPX044342R9999
	850	40 x 10	N/PE -XT5/XT6/XT7/OT630-800	1	ZX2721	2CPX044270R9999	ZXM2721	2CPX044343R9999
	1000	50 x 10	N/PE -XT5/XT6/XT7/OT630-800	1	ZX2722	2CPX044271R9999	ZXM2722	2CPX044344R9999
3	630	30 x 10	N/PE 630 A	1	ZX2723	2CPX044272R9999	ZXM2723	2CPX044345R9999
	850	40 x 10	N/PE - OT1000-1250/ATS500-800	1	ZX2724	2CPX044273R9999	ZXM2724	2CPX044346R9999
	1000	50 x 10	N/PE - OT1000-1250/ATS500-800	1	ZX2725	2CPX044274R9999	ZXM2725	2CPX044347R9999



ZX2742

- PE Universal busbars made of copper
- Including fastening elements
- Prepared for side-by-side cabinet connection on both sides
- The current carrying capacity is 50 % of the outer conductors of the MBB.

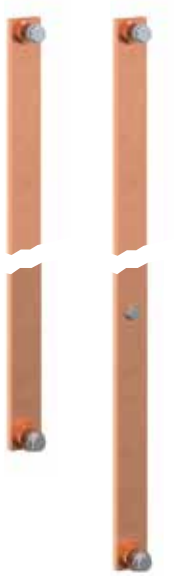
	I_n	Cu busbars			Kit not installed		Mounted and installed in the cabinet	
PW	A	mm	Description	Unit	Type	Order code	Type	Order code
1	630	30 x 5	Cu busbar PE (50 %)	1	ZX2737	2CPX042336R9999	ZXM2737	2CPX042444R9999
	850	20 x 10	Cu busbar PE (50 %)	1	ZX2738	2CPX042337R9999	ZXM2738	2CPX042445R9999
	1000	30 x 10	Cu busbar PE (50 %)	1	ZX2739	2CPX042338R9999	ZXM2739	2CPX042446R9999
2	630	30 x 5	Cu busbar PE (50 %)	1	ZX2740	2CPX044275R9999	ZXM2740	2CPX044348R9999
	850	20 x 10	Cu busbar PE (50 %)	1	ZX2741	2CPX044276R9999	ZXM2741	2CPX044349R9999
	1000	30 x 10	Cu busbar PE (50 %)	1	ZX2742	2CPX044277R9999	ZXM2742	2CPX044350R9999
3	630	30 x 5	Cu busbar PE (50 %)	1	ZX2743	2CPX044278R9999	ZXM2743	2CPX044351R9999
	850	20 x 10	Cu busbar PE (50 %)	1	ZX2744	2CPX044279R9999	ZXM2744	2CPX044352R9999
	1000	30 x 10	Cu busbar PE (50 %)	1	ZX2745	2CPX044280R9999	ZXM2745	2CPX044353R9999

Article		Description	Unit	Kit not installed		Mounted and installed in the cabinet	
				Type	Order code	Type	Order code
		**Horizontal holder set** For N-connection consisting of mounting brackets and busbar holders (ZX563), incl. fastening material* up to 50 x 10 (1000 A)					
		earthed	1	ZX2760	2CPX044409R9999	ZXM2760	2CPX044389R9999
ZXM2760	ZXM2761	double insulated	1	ZX2761	2CPX043457R9999	ZXM2761	2CPX043459R9999

* included in the modules' scope of delivery

Distribution panel system CombiLine-X

N and PE busbars, vertical and central earthing point (CEP), ⏚



ZX2856 ZX2852

- N universal busbars made of copper
- For the link from bottom to top compartment
- Including fastening elements
- The current carrying capacity is 100 % (N) and 50 % (PE) of the outer conductors of the MBB.
- The holder set ZX(M)2860P2 must be ordered separately.
- Earthed version

I_n	Cu busbars			Kit not installed		Mounted and installed in the cabinet	
A	mm	Description	Unit	Type	Order code	Type	Order code
630	30 x 10	Cu busbar N, vertical	1	ZX2855	2CPX043445R9999	ZXM2855	2CPX044439R9999
800	40 x 10	Cu-busbar N, vertical	1	ZX2856	2CPX043446R9999	ZXM2856	2CPX044440R9999
1000	50 x 10	Cu-busbar N, vertical	1	ZX2857	2CPX043447R9999	ZXM2857	2CPX044441R9999
630	30 x 5	Cu busbar PE, vertical	1	ZX2850	2CPX043440R9999	ZXM2850	2CPX044434R9999
800	20 x 10	Cu busbar PE, vertical	1	ZX2851	2CPX043441R9999	ZXM2851	2CPX044435R9999
1000	30 x 10	Cu busbar PE, vertical	1	ZX2852	2CPX043442R9999	ZXM2852	2CPX044436R9999
800	40 x 10	Cu busbar PE, vertical	1	ZX2853	2CPX043443R9999	ZXM2853	2CPX044437R9999
1000	50 x 10	Cu busbar PE, vertical	1	ZX2854	2CPX043444R9999	ZXM2854	2CPX044438R9999



ZX2866

- Central earthing point made of copper
- For the link from bottom to top compartment
- PEN /N bar and the PE bar
- The current carrying capacity is 50 % of the outer conductors of the MBB.
- Earthed version

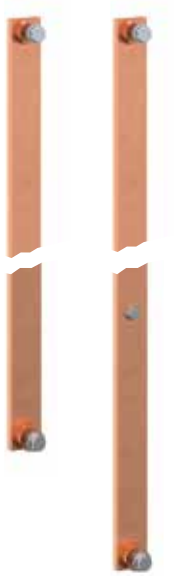
I_n	Cu busbars			Kit not installed		Mounted and installed in the cabinet	
A	mm	Description	Unit	Type	Order code	Type	Order code
630	30 x 10	Cu busbar ZEP	1	ZX2865	2CPX043448R9999	ZXM2865	2CPX044442R9999
800	40 x 10	Cu busbar ZEP	1	ZX2866	2CPX043449R9999	ZXM2866	2CPX044443R9999
1000	50 x 10	Cu busbar ZEP	1	ZX2867	2CPX043450R9999	ZXM2867	2CPX044444R9999

Article	Description	Unit	Kit not installed		Mounted and installed in the cabinet	
			Type	Order code	Type	Order code
	holder set for vertical N /PE bar, consisting of mounting brackets and busbar holders (ZX563) incl. fastening material up to 50 x 10 (1000 A)	2	ZX2860P2	2CPX062800R9999	ZXM2860P2	2CPX039277R9999

ZX2860P2

Distribution panel system CombiLine-X

N and PE busbars, vertical and central earthing point (CEP), ⧈



ZX2856 ZX2882

- N universal busbars made of copper
- For the link from bottom to top compartment
- Including fastening elements
- The current carrying capacity is 100 % (N) and 50 % (PE) of the outer conductors of the MBB.
- The holder set ZX(M)2860P2 must be ordered separately.
- Double insulated version

I_n	Cu busbars			Kit not installed		Mounted and installed in the cabinet	
A	mm	Description	Unit	Type	Order code	Type	Order code
630	30 x 10	Cu busbar N, vertical	1	ZX2855	2CPX043445R9999	ZXM2855	2CPX044439R9999
800	40 x 10	Cu-busbar N, vertical	1	ZX2856	2CPX043446R9999	ZXM2856	2CPX044440R9999
1000	50 x 10	Cu-busbar N, vertical	1	ZX2857	2CPX043447R9999	ZXM2857	2CPX044441R9999
630	30 x 5	Cu busbar PE, vertical	1	ZX2880	2CPX043461R9999	ZXM2880	2CPX043466R9999
800	20 x 10	Cu busbar PE, vertical	1	ZX2881	2CPX043462R9999	ZXM2881	2CPX043467R9999
1000	30 x 10	Cu busbar PE, vertical	1	ZX2882	2CPX043463R9999	ZXM2882	2CPX043468R9999
800	40 x 10	Cu busbar PE, vertical	1	ZX2883	2CPX043464R9999	ZXM2883	2CPX043469R9999
1000	50 x 10	Cu busbar PE, vertical	1	ZX2884	2CPX043465R9999	ZXM2884	2CPX043470R9999



ZX2876

- Central earthing point made of copper
- For the link from bottom to top compartment
- PEN /N bar and the PE bar
- The current carrying capacity is 50 % of the outer conductors of the MBB.
- Double insulated version

I_n	Cu busbars			Kit not installed		Mounted and installed in the cabinet	
A	mm	Description	Unit	Type	Order code	Type	Order code
630	30 x 10	Cu busbar ZEP	1	ZX2875	2CPX043451R9999	ZXM2875	2CPX043454R9999
800	40 x 10	Cu busbar ZEP	1	ZX2876	2CPX043452R9999	ZXM2876	2CPX043455R9999
1000	50 x 10	Cu busbar ZEP	1	ZX2877	2CPX043453R9999	ZXM2877	2CPX043456R9999

Article	Description	Unit	Kit not installed		Mounted and installed in the cabinet	
			Type	Order code	Type	Order code
 ZX2861P2	holder set for vertical N /PE bar, consisting of mounting brackets and busbar holders (ZX563) incl. fastening material up to 50 x 10 (1000 A)	2	ZX2861P2	2CPX043458R9999	ZXM2861P2	2CPX043460R9999

Distribution panel system CombiLine-X

Module to module copper connection



ZX2781



ZX2784



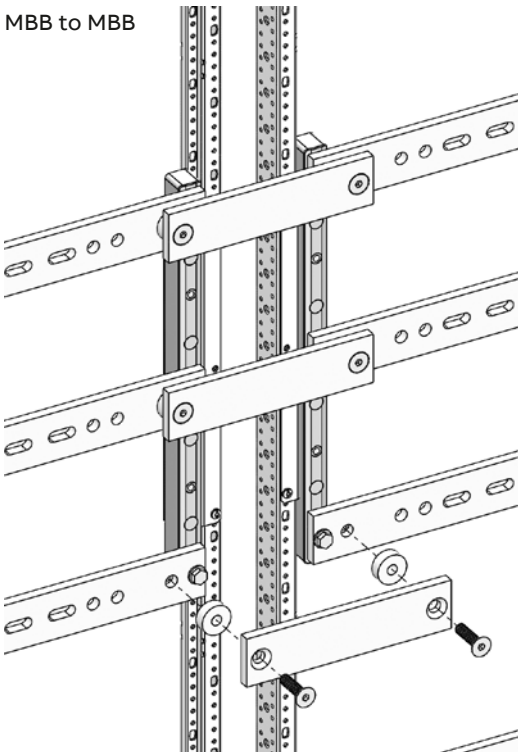
ZX2787

- Module to module connector made of copper
- To connect Cu busbars
- The current carrying capacity of L1, L2, L3, N is 100 % and the current carrying capacity of PE is 50 % of the outer conductors of the MBB.

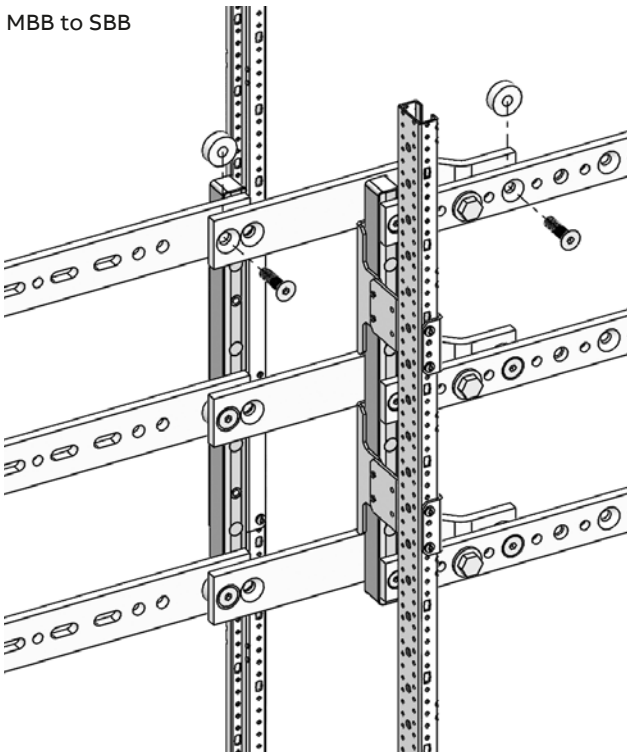
	I_n	Cu busbars			Kit not installed		Mounted and installed in the cabinet	
Connection	A	mm		Unit	Type	Order code	Type	Order code
MBB to MBB	630	30 x 10	FF-Cu connector HH 30 x 10	1	ZX2780	2CPX044281R9999	ZXM2780	2CPX044354R9999
	850	40 x 10	FF-Cu connector HH 40 x 10	1	ZX2781	2CPX044282R9999	ZXM2781	2CPX044355R9999
	1000	50 x 10	FF-Cu connector HH 50 x 10	1	ZX2782	2CPX044283R9999	ZXM2782	2CPX044356R9999
MBB to SBB	630	30 x 10	FF-Cu connector HV 30 x 10	1	ZX2783	2CPX044284R9999	ZXM2783	2CPX044357R9999
	850	40 x 10	FF-Cu connector HV 40 x 10	1	ZX2784	2CPX044285R9999	ZXM2784	2CPX044358R9999
	1000	50 x 10	FF-Cu connector HV 50 x 10	1	ZX2785	2CPX044286R9999	ZXM2785	2CPX044359R9999
SBB to SBB	630	30 x 10	FF-Cu connector VV 30 x 10	1	ZX2786	2CPX044287R9999	ZXM2786	2CPX044360R9999
	850	40 x 10	FF-Cu connector VV 40 x 10	1	ZX2787	2CPX044288R9999	ZXM2787	2CPX044361R9999
	1000	50 x 10	FF-Cu connector VV 50 x 10	1	ZX2788	2CPX044289R9999	ZXM2788	2CPX044362R9999
N/PE	630	30 x 10	FF-Cu connector N/PE 30 x 10	1	ZX2789	2CPX044290R9999	ZXM2789	2CPX044363R9999
N/PE	850	40 x 10	FF-Cu connector N/PE 40 x 10	1	ZX2790	2CPX044291R9999	ZXM2790	2CPX044364R9999
N/PE	1000	50 x 10	FF-Cu connector N/PE 50 x 10	1	ZX2791	2CPX044292R9999	ZXM2791	2CPX044365R9999
PE	630	30 x 5	FF-Cu connector PE 30 x 5	1	ZX2792	2CPX044293R9999	ZXM2792	2CPX044366R9999
PE	850	20 x 10	FF-Cu connector PE 20 x 10	1	ZX2793	2CPX044294R9999	ZXM2793	2CPX044367R9999
PE	1000	30 x 10	FF-Cu connector PE 30 x 10	1	ZX2794	2CPX044295R9999	ZXM2794	2CPX044368R9999

MBB = main busbar / SBB = sub busbar only for MD modules in combination with ZHBM (+EFM/ITS)

MBB to MBB



MBB to SBB



Distribution panel system CombiLine-X

Cabinet to cabinet copper connection



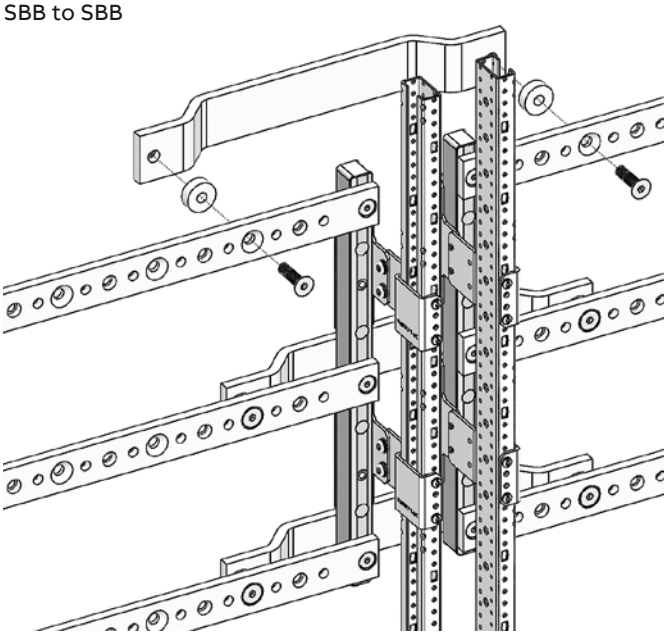
ZX2810 ZX2813 ZX2816

- Cabinet to cabinet connector made of copper
- To connect Cu busbars
- The current carrying capacity of L1, L2, L3, N is 100 % and the current carrying capacity of PE is 50 % of the outer conductors of the MBB.

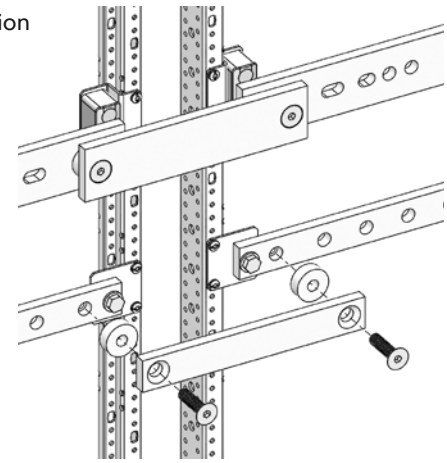
	I_n	Cu busbars			Kit not installed		Mounted and installed in the cabinet	
Connection	A	mm		Unit	Type	Order code	Type	Order code
MBB to MBB	630	30 x 10	SS-Cu connector HH 30 x 10	1	ZX2810	2CPX044296R9999	ZXM2810	2CPX044369R9999
	850	40 x 10	SS-Cu connector HH 40 x 10	1	ZX2811	2CPX044297R9999	ZXM2811	2CPX044370R9999
	1000	50 x 10	SS-Cu connector HH 50 x 10	1	ZX2812	2CPX044298R9999	ZXM2812	2CPX044371R9999
MBB to SBB	630	30 x 10	SS-Cu connector HV 30 x 10	1	ZX2813	2CPX044299R9999	ZXM2813	2CPX044372R9999
	850	40 x 10	SS-Cu connector HV 40 x 10	1	ZX2814	2CPX044300R9999	ZXM2814	2CPX044373R9999
	1000	50 x 10	SS-Cu connector HV 50 x 10	1	ZX2815	2CPX044301R9999	ZXM2815	2CPX044374R9999
SBB to SBB	630	30 x 10	SS-Cu connector VV 30 x 10	1	ZX2816	2CPX044302R9999	ZXM2816	2CPX044375R9999
	850	40 x 10	SS-Cu connector VV 40 x 10	1	ZX2817	2CPX044303R9999	ZXM2817	2CPX044376R9999
	1000	50 x 10	SS-Cu connector VV 50 x 10	1	ZX2818	2CPX044304R9999	ZXM2818	2CPX044377R9999
N/PE	630	30 x 10	SS-Cu connector N/PE 30 x 10	1	ZX2819	2CPX044305R9999	ZXM2819	2CPX044378R9999
N/PE	850	40 x 10	SS-Cu connector N/PE 40 x 10	1	ZX2820	2CPX044306R9999	ZXM2820	2CPX044379R9999
N/PE	1000	50 x 10	SS-Cu connector N/PE 50 x 10	1	ZX2821	2CPX044307R9999	ZXM2821	2CPX044380R9999
PE	630	30 x 5	SS-Cu connector PE 30 x 5	1	ZX2822	2CPX044308R9999	ZXM2822	2CPX044381R9999
PE	850	20 x 10	SS-Cu connector PE 20 x 10	1	ZX2823	2CPX044309R9999	ZXM2823	2CPX044382R9999
PE	1000	30 x 10	SS-Cu connector PE 30 x 10	1	ZX2824	2CPX044310R9999	ZXM2824	2CPX044383R9999

MBB = main busbar / SBB = sub busbar only for MD modules in combination with ZHBM (+EFM/ITS)

SBB to SBB

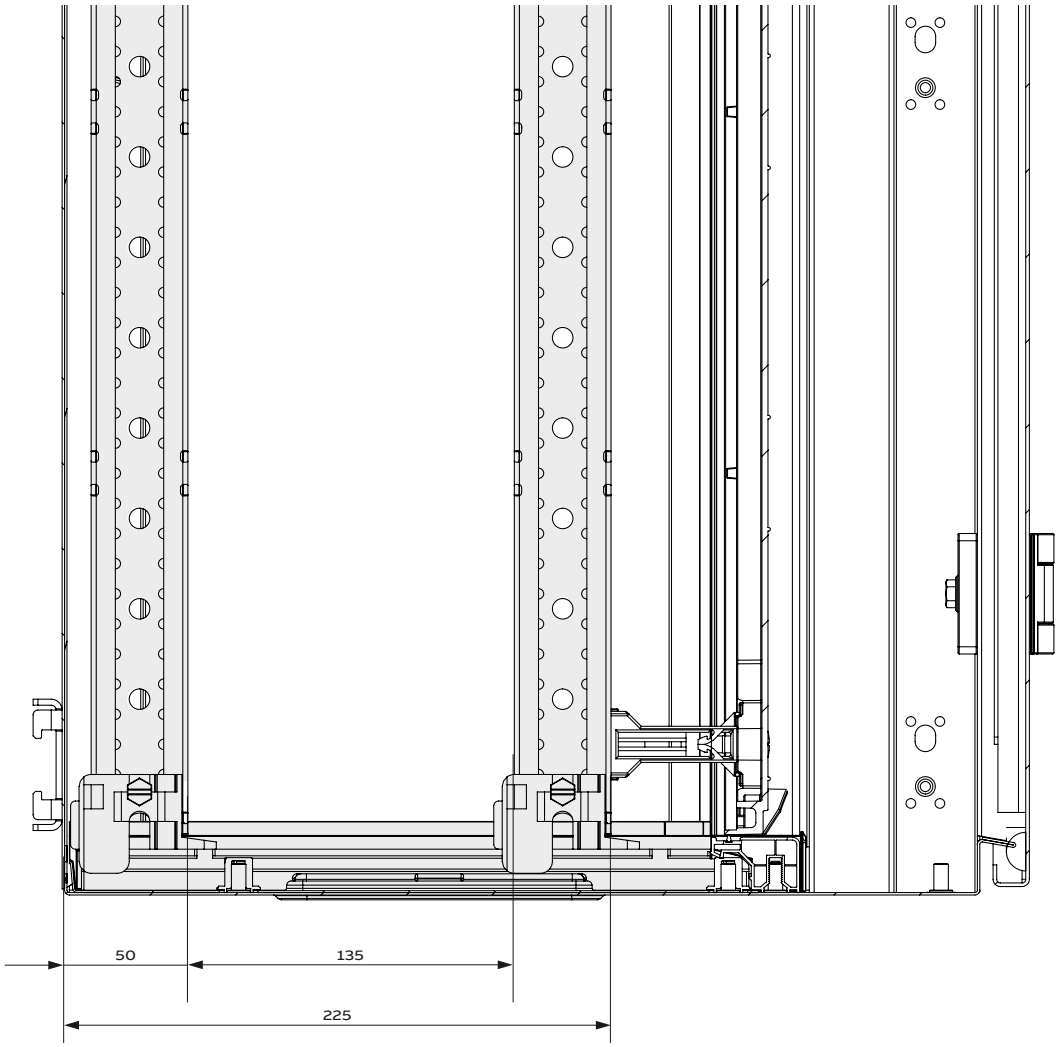


N/PE connection

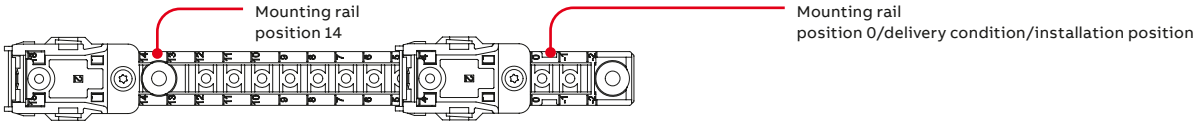


Distribution panel system CombiLine N

Dimensions for installation of CombiLine-X module on WR mounting frame



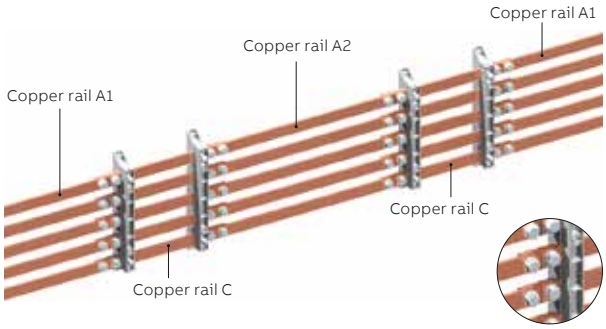
Mounting rail
Plan view



Notes

TwinLine busbars

Row mounting for modules M(B)S…24

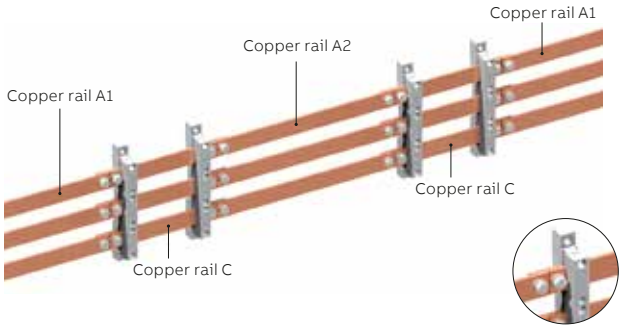


- It is possible to combine different module widths within the cabinet with continuous busbars
- Busbars for cabinet row mounting (copper rail A1/A2) are delivered on the connection side with copper transport pieces and attachment material
- A connector (copper rail C) is required for each busbar connection
- **Important**: note the possibility to combine modules with the TwinLine cabinet row mountings
- A max. of 5 copper rails A1/A2 and C are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
Copper rail A1, busbars for TwinLine cabinet row mounting right or left								
20 x 5	320	1	138 + 43	1	ZX2224	2CPX042630R9999	ZXM2224	2CPX042672R9999
		2	388 + 43	1	ZX2225	2CPX042631R9999	ZXM2225	2CPX042673R9999
		3	638 + 43	1	ZX2226	2CPX042632R9999	ZXM2226	2CPX042674R9999
		4	888 + 43	1	ZX2227	2CPX042633R9999	ZXM2227	2CPX042675R9999
		5	1138 + 43	1	ZX2228	2CPX042634R9999	ZXM2228	2CPX042676R9999
		6	1388 + 43	1	ZX2229	2CPX042635R9999	ZXM2229	2CPX042677R9999
Copper rail A2, busbars for TwinLine cabinet row mounting right and left								
20 x 5	320	1	43 + 95 + 43	1	ZX2324	2CPX042714R9999	ZXM2324	2CPX042750R9999
		2	43 + 345 + 43	1	ZX2325	2CPX042715R9999	ZXM2325	2CPX042751R9999
		3	43 + 595 + 43	1	ZX2326	2CPX042716R9999	ZXM2326	2CPX042752R9999
		4	43 + 845 + 43	1	ZX2327	2CPX042717R9999	ZXM2327	2CPX042753R9999
		5	43 + 1095 + 43	1	ZX2328	2CPX042718R9999	ZXM2328	2CPX042754R9999
		6	43 + 1345 + 43	1	ZX2329	2CPX042719R9999	ZXM2329	2CPX042755R9999
Copper rail C, connector for TwinLine cabinet row mounting right or left								
20 x 5	320	-	208	1	ZX2405	2CPX042787R9999	-	-

TwinLine busbars

Row mounting for modules M(B)S…27

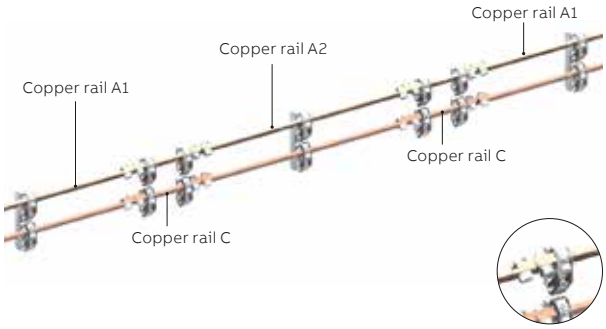


- It is possible to combine different module widths within the cabinet with continuous busbars
- Busbars for cabinet row mounting (copper rail A1/A2) are delivered on the connection side with copper transport pieces and attachment material
- A connector (copper rail C) is required for each busbar connection
- **Important**: note the possibility to combine modules with the TwinLine cabinet row mountings
- 3 copper rails A1/A2 and C are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
Copper rail A1, busbars for TwinLine cabinet row mounting right or left								
30 x 5	440	1	138 + 43	1	ZX2236	2CPX042642R9999	ZXM2236	2CPX042684R9999
		2	388 + 43	1	ZX2237	2CPX042643R9999	ZXM2237	2CPX042685R9999
		3	638 + 43	1	ZX2238	2CPX042644R9999	ZXM2238	2CPX042686R9999
		4	888 + 43	1	ZX2239	2CPX042645R9999	ZXM2239	2CPX042687R9999
		5	1138 + 43	1	ZX2240	2CPX042646R9999	ZXM2240	2CPX042688R9999
		6	1388 + 43	1	ZX2241	2CPX042647R9999	ZXM2241	2CPX042689R9999
30 x 10	630	1	138 + 43	1	ZX2248	2CPX042654R9999	ZXM2248	2CPX042696R9999
		2	388 + 43	1	ZX2249	2CPX042655R9999	ZXM2249	2CPX042697R9999
		3	638 + 43	1	ZX2250	2CPX042656R9999	ZXM2250	2CPX042698R9999
		4	888 + 43	1	ZX2251	2CPX042657R9999	ZXM2251	2CPX042699R9999
		5	1138 + 43	1	ZX2252	2CPX042658R9999	ZXM2252	2CPX042700R9999
		6	1388 + 43	1	ZX2253	2CPX042659R9999	ZXM2253	2CPX042701R9999
Copper rail A2, busbars for TwinLine cabinet row mounting right and left								
30 x 5	440	1	43 + 95 + 43	1	ZX2336	2CPX042726R9999	ZXM2336	2CPX042762R9999
		2	43 + 345 + 43	1	ZX2337	2CPX042727R9999	ZXM2337	2CPX042763R9999
		3	43 + 595 + 43	1	ZX2338	2CPX042728R9999	ZXM2338	2CPX042764R9999
		4	43 + 845 + 43	1	ZX2339	2CPX042729R9999	ZXM2339	2CPX042765R9999
		5	43 + 1095 + 43	1	ZX2340	2CPX042730R9999	ZXM2340	2CPX042766R9999
		6	43 + 1345 + 43	1	ZX2341	2CPX042731R9999	ZXM2341	2CPX042767R9999
30 x 10	630	1	43 + 95 + 43	1	ZX2348	2CPX042738R9999	ZXM2348	2CPX042774R9999
		2	43 + 345 + 43	1	ZX2349	2CPX042739R9999	ZXM2349	2CPX042775R9999
		3	43 + 595 + 43	1	ZX2350	2CPX042740R9999	ZXM2350	2CPX042776R9999
		4	43 + 845 + 43	1	ZX2351	2CPX042741R9999	ZXM2351	2CPX042777R9999
		5	43 + 1095 + 43	1	ZX2352	2CPX042742R9999	ZXM2352	2CPX042778R9999
		6	43 + 1345 + 43	1	ZX2353	2CPX042743R9999	ZXM2353	2CPX042779R9999
Copper rail C, connector for TwinLine cabinet row mounting right or left								
30 x 5	440		208	1	ZX2407	2CPX042789R9999	-	-
30 x 10	630		208	1	ZX2408	2CPX042790R9999	-	-

TwinLine busbars

Row mounting for modules M(B) N..74+75

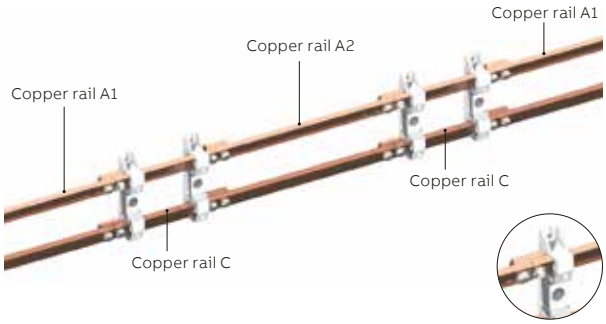


- It is possible to combine different module widths within the cabinet with continuous busbars
- Busbars for cabinet row mounting (copper rail A1/A2) are delivered on the connection side with copper transport pieces and attachment material
- A connector (copper rail C) is required for each busbar connection
- **Important**: note the possibility to combine modules with the TwinLine cabinet row mountings
- 2 copper rails A1/A2 and C are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
Copper rail A1, busbars for TwinLine cabinet row mounting right or left								
20 x 5	320	1	200 + 43	1	ZX2230	2CPX042636R9999	ZXM2230	2CPX042678R9999
		2	450 + 43	1	ZX2231	2CPX042637R9999	ZXM2231	2CPX042679R9999
		3	700 + 43	1	ZX2232	2CPX042638R9999	ZXM2232	2CPX042680R9999
		4	950 + 43	1	ZX2233	2CPX042639R9999	ZXM2233	2CPX042681R9999
		5	1200 + 43	1	ZX2234	2CPX042640R9999	ZXM2234	2CPX042682R9999
		6	1450 + 43	1	ZX2235	2CPX042641R9999	ZXM2235	2CPX042683R9999
30 x 5	440	1	200 + 43	1	ZX2242	2CPX042648R9999	ZXM2242	2CPX042690R9999
		2	450 + 43	1	ZX2243	2CPX042649R9999	ZXM2243	2CPX042691R9999
		3	700 + 43	1	ZX2244	2CPX042650R9999	ZXM2244	2CPX042692R9999
		4	950 + 43	1	ZX2245	2CPX042651R9999	ZXM2245	2CPX042693R9999
		5	1200 + 43	1	ZX2246	2CPX042652R9999	ZXM2246	2CPX042694R9999
		6	1450 + 43	1	ZX2247	2CPX042653R9999	ZXM2247	2CPX042695R9999
Copper rail A2, busbars for TwinLine cabinet row mounting right and left								
20 x 5	320	1	43 + 154 + 43	1	ZX2330	2CPX042720R9999	ZXM2330	2CPX042756R9999
		2	43 + 404 + 43	1	ZX2331	2CPX042721R9999	ZXM2331	2CPX042757R9999
		3	43 + 654 + 43	1	ZX2332	2CPX042722R9999	ZXM2332	2CPX042758R9999
		4	43 + 904 + 43	1	ZX2333	2CPX042723R9999	ZXM2333	2CPX042759R9999
		5	43 + 1154 + 43	1	ZX2334	2CPX042724R9999	ZXM2334	2CPX042760R9999
		6	43 + 1404 + 43	1	ZX2335	2CPX042725R9999	ZXM2335	2CPX042761R9999
30 x 5	440	1	43 + 154 + 43	1	ZX2342	2CPX042732R9999	ZXM2342	2CPX042768R9999
		2	43 + 404 + 43	1	ZX2343	2CPX042733R9999	ZXM2343	2CPX042769R9999
		3	43 + 654 + 43	1	ZX2344	2CPX042734R9999	ZXM2344	2CPX042770R9999
		4	43 + 904 + 43	1	ZX2345	2CPX042735R9999	ZXM2345	2CPX042771R9999
		5	43 + 1154 + 43	1	ZX2346	2CPX042736R9999	ZXM2346	2CPX042772R9999
		6	43 + 1404 + 43	1	ZX2347	2CPX042737R9999	ZXM2347	2CPX042773R9999
Copper rail C, connector for TwinLine cabinet row mounting right or left								
20 x 5	320	-	149	1	ZX2404	2CPX042786R9999	-	-
30 x 5	440	-	149	1	ZX2406	2CPX042788R9999	-	-

TwinLine busbars

Row mounting for modules M(B) N..62+63

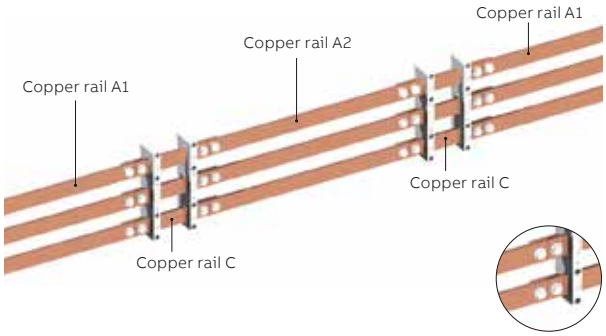


- It is possible to combine different module widths within the cabinet with continuous busbars
- Busbars for cabinet row mounting (copper rail A1/A2) are delivered on the connection side with copper transport pieces and attachment material
- A connector (copper rail C) is required for each busbar connection
- **Important**: note the possibility to combine modules with the TwinLine cabinet row mountings
- 2 copper rails A1/A2 and C are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
Copper rail A1, busbars for TwinLine cabinet row mounting right or left								
30 x 10	630	1	149 + 43	1	ZX2254	2CPX042660R9999	ZXM2254	2CPX042702R9999
		2	399 + 43	1	ZX2255	2CPX042661R9999	ZXM2255	2CPX042703R9999
		3	649 + 43	1	ZX2256	2CPX042662R9999	ZXM2256	2CPX042704R9999
		4	899 + 43	1	ZX2257	2CPX042663R9999	ZXM2257	2CPX042705R9999
		5	1149 + 43	1	ZX2258	2CPX042664R9999	ZXM2258	2CPX042706R9999
		6	1399 + 43	1	ZX2259	2CPX042665R9999	ZXM2259	2CPX042707R9999
Copper rail A2, busbars for TwinLine cabinet row mounting right and left								
30 x 10	630	1	43 + 95 + 43	1	ZX2348	2CPX042738R9999	ZXM2348	2CPX042774R9999
		2	43 + 345 + 43	1	ZX2349	2CPX042739R9999	ZXM2349	2CPX042775R9999
		3	43 + 595 + 43	1	ZX2350	2CPX042740R9999	ZXM2350	2CPX042776R9999
		4	43 + 845 + 43	1	ZX2351	2CPX042741R9999	ZXM2351	2CPX042777R9999
		5	43 + 1095 + 43	1	ZX2352	2CPX042742R9999	ZXM2352	2CPX042778R9999
		6	43 + 1345 + 43	1	ZX2353	2CPX042743R9999	ZXM2353	2CPX042779R9999
Copper rail C, connector for TwinLine cabinet row mounting right or left								
30 x 10	630		208	1	ZX2408	2CPX042790R9999	-	-

TwinLine busbars

Row mounting for modules M(B)R...02(B)



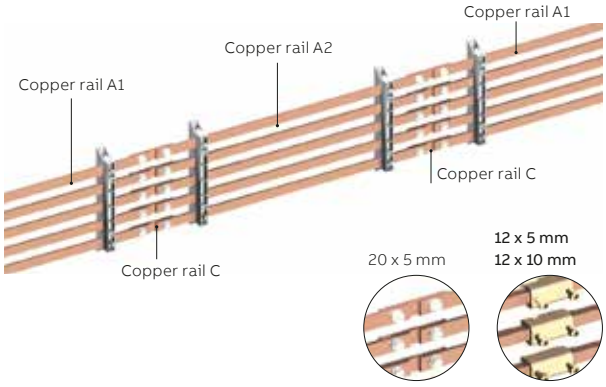
- It is possible to combine different module widths within the cabinet with continuous busbars
- Busbars for cabinet row mounting (copper rail A1/A2) are delivered on the connection side with copper transport pieces and attachment material
- A connector (copper rail C) is required for each busbar connection
- **Important:** For populated modules MR...02B, the external bus-mounting fuse socket may be omitted, for:
  MR102B for connection left, 1 unit,
  MR202B for connection left, 1 unit,
  MR302B for connection left or right, 2 units each;
  these must be replaced by empty space covers ZA4P10 in the cover
- **Important**: note the possibility to combine modules with the TwinLine cabinet row mountings
- 3 copper rails A1/A2 and C are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
Copper rail A1, busbars for TwinLine cabinet row mounting right or left								
20 x 5	320	1	200 + 43	1	ZX2230	2CPX042636R9999	ZXM2230	2CPX042678R9999
		2	450 + 43	1	ZX2231	2CPX042637R9999	ZXM2231	2CPX042679R9999
		3	700 + 43	1	ZX2232	2CPX042638R9999	ZXM2232	2CPX042680R9999
		4	950 + 43	1	ZX2233	2CPX042639R9999	ZXM2233	2CPX042681R9999
		5	1200 + 43	1	ZX2234	2CPX042640R9999	ZXM2234	2CPX042682R9999
		6	1450 + 43	1	ZX2235	2CPX042641R9999	ZXM2235	2CPX042683R9999
30 x 5	440	1	200 + 43	1	ZX2242	2CPX042648R9999	ZXM2242	2CPX042690R9999
		2	450 + 43	1	ZX2243	2CPX042649R9999	ZXM2243	2CPX042691R9999
		3	700 + 43	1	ZX2244	2CPX042650R9999	ZXM2244	2CPX042692R9999
		4	950 + 43	1	ZX2245	2CPX042651R9999	ZXM2245	2CPX042693R9999
		5	1200 + 43	1	ZX2246	2CPX042652R9999	ZXM2246	2CPX042694R9999
		6	1450 + 43	1	ZX2247	2CPX042653R9999	ZXM2247	2CPX042695R9999
Copper rail A2, busbars for TwinLine cabinet row mounting right and left								
20 x 5	320	1	43 + 154 + 43	1	ZX2330	2CPX042720R9999	ZXM2330	2CPX042756R9999
		2	43 + 404 + 43	1	ZX2331	2CPX042721R9999	ZXM2331	2CPX042757R9999
		3	43 + 654 + 43	1	ZX2332	2CPX042722R9999	ZXM2332	2CPX042758R9999
		4	43 + 904 + 43	1	ZX2333	2CPX042723R9999	ZXM2333	2CPX042759R9999
		5	43 + 1154 + 43	1	ZX2334	2CPX042724R9999	ZXM2334	2CPX042760R9999
		6	43 + 1404 + 43	1	ZX2335	2CPX042725R9999	ZXM2335	2CPX042761R9999
30 x 5	440	1	43 + 154 + 43	1	ZX2342	2CPX042732R9999	ZXM2342	2CPX042768R9999
		2	43 + 404 + 43	1	ZX2343	2CPX042733R9999	ZXM2343	2CPX042769R9999
		3	43 + 654 + 43	1	ZX2344	2CPX042734R9999	ZXM2344	2CPX042770R9999
		4	43 + 904 + 43	1	ZX2345	2CPX042735R9999	ZXM2345	2CPX042771R9999
		5	43 + 1154 + 43	1	ZX2346	2CPX042736R9999	ZXM2346	2CPX042772R9999
		6	43 + 1404 + 43	1	ZX2347	2CPX042737R9999	ZXM2347	2CPX042773R9999
Copper rail C, connector for TwinLine cabinet row mounting right or left								
20 x 5	320	-	149	1	ZX2404	2CPX042786R9999	-	-
30 x 5	440	-	149	1	ZX2406	2CPX042788R9999	-	-

Notes

Busbars TriLine system and pro *E* power system

Row mounting for modules M(B)S…24

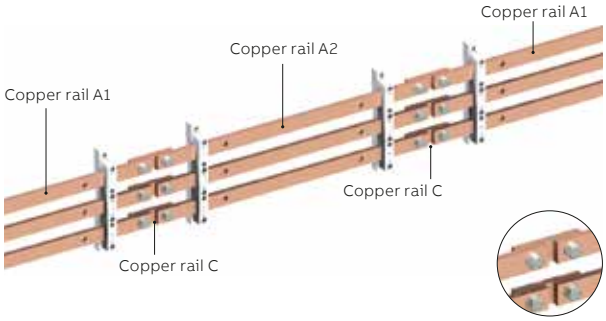


- It is possible to combine different module widths within the cabinet with continuous busbars
- A connector is required for cabinet row mounting for each busbar connection
- The busbar connection is realized outside the module
- Busbar connector for copper 12 x 5 mm and 12 x 10 mm, including connection terminals
- Busbar connector for copper 20 x 5 mm, including press-in nuts and fastening screws
- A max. of 5 copper rails A1/A2 and C are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
Copper rail A1, busbars for cabinet row mounting right or left								
12 x 5	250	1	293	1	ZX1040	2CPX041906R9999	ZXM1040	2CPX041516R9999
		2	543	1	ZX1041	2CPX041907R9999	ZXM1041	2CPX041517R9999
		3	793	1	ZX1042	2CPX041908R9999	ZXM1042	2CPX041518R9999
		4	1043	1	ZX1043	2CPX041909R9999	ZXM1043	2CPX041519R9999
		5	1293	1	ZX1044	2CPX041910R9999	ZXM1044	2CPX041520R9999
12 x 10	360	1	293	1	ZX1046	2CPX041912R9999	ZXM1046	2CPX041522R9999
		2	543	1	ZX1047	2CPX041913R9999	ZXM1047	2CPX041523R9999
		3	793	1	ZX1048	2CPX041914R9999	ZXM1048	2CPX041524R9999
		4	1043	1	ZX1049	2CPX041915R9999	ZXM1049	2CPX041525R9999
		5	1293	1	ZX1050	2CPX041916R9999	ZXM1050	2CPX041526R9999
20 x 5	320	1	293	1	ZX1052	2CPX041918R9999	ZXM1052	2CPX041528R9999
		2	543	1	ZX1053	2CPX041919R9999	ZXM1053	2CPX041529R9999
		3	793	1	ZX1054	2CPX041920R9999	ZXM1054	2CPX041530R9999
		4	1043	1	ZX1055	2CPX041921R9999	ZXM1055	2CPX041531R9999
		5	1293	1	ZX1056	2CPX041922R9999	ZXM1056	2CPX041532R9999
Copper rail A2, busbars for cabinet row mounting right and left								
12 x 5	250	1	345	1	ZX1080	2CPX041942R9999	ZXM1080	2CPX041552R9999
		2	595	1	ZX1081	2CPX041943R9999	ZXM1081	2CPX041553R9999
		3	845	1	ZX1082	2CPX041944R9999	ZXM1082	2CPX041554R9999
		4	1095	1	ZX1083	2CPX041945R9999	ZXM1083	2CPX041555R9999
		5	1345	1	ZX1084	2CPX041946R9999	ZXM1084	2CPX041556R9999
12 x 10	360	1	340	1	ZX1086	2CPX041948R9999	ZXM1086	2CPX041558R9999
		2	590	1	ZX1087	2CPX041949R9999	ZXM1087	2CPX041559R9999
		3	840	1	ZX1088	2CPX041950R9999	ZXM1088	2CPX041560R9999
		4	1090	1	ZX1089	2CPX041951R9999	ZXM1089	2CPX041561R9999
		5	1340	1	ZX1090	2CPX041952R9999	ZXM1090	2CPX041562R9999
20 x 5	320	1	340	1	ZX1092	2CPX041954R9999	ZXM1092	2CPX041564R9999
		2	590	1	ZX1093	2CPX041955R9999	ZXM1093	2CPX041565R9999
		3	840	1	ZX1094	2CPX041956R9999	ZXM1094	2CPX041566R9999
		4	1090	1	ZX1095	2CPX041957R9999	ZXM1095	2CPX041567R9999
		5	1340	1	ZX1096	2CPX041958R9999	ZXM1096	2CPX041568R9999
Copper rail C, connector for TwinLine cabinet row mounting right or left								
12 x 5	250		44	1	ZX1180	2CPX042020R9999	-	-
12 x 10	360		44	1	ZX1181	2CPX042021R9999	-	-
20 x 5	320		94	1	ZX1182	2CPX042022R9999	-	-
Copper rail C, connector for the pro E power system cabinet row mounting right or left								
12 x 5	250		44	1	ZX1180	2CPX042020R9999	-	-
12 x 10	360		44	1	ZX1181	2CPX042021R9999	-	-
20 x 5	320		74	1	ZX1192	2CPX042105R9999	-	-

Busbars TriLine system and pro *E* power system

Row mounting for modules M(B)S...27

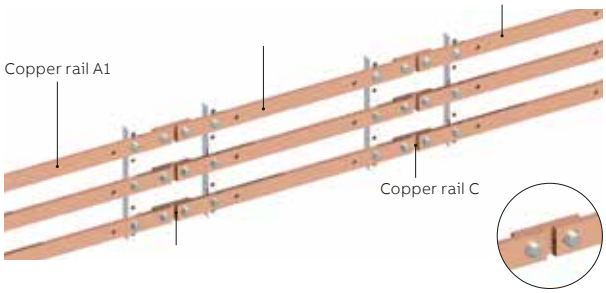


- It is possible to combine different module widths within the cabinet with continuous busbars
- A connector is required for cabinet row mounting for each busbar connection
- The busbar connection is realized outside the module
- Busbar connector, including press-in nuts and attachment material
- 3 copper rails A1/A2 and C are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
Copper rail A1, busbars for cabinet row mounting right or left								
30 x 5	440	1	293	1	ZX1058	2CPX041924R9999	ZXM1058	2CPX041534R9999
		2	543	1	ZX1059	2CPX041925R9999	ZXM1059	2CPX041535R9999
		3	793	1	ZX1060	2CPX041926R9999	ZXM1060	2CPX041536R9999
		4	1043	1	ZX1061	2CPX041927R9999	ZXM1061	2CPX041537R9999
		5	1293	1	ZX1062	2CPX041928R9999	ZXM1062	2CPX041538R9999
30 x 10	630	1	293	1	ZX1064	2CPX041930R9999	ZXM1064	2CPX041540R9999
		2	543	1	ZX1065	2CPX041931R9999	ZXM1065	2CPX041541R9999
		3	793	1	ZX1066	2CPX041932R9999	ZXM1066	2CPX041542R9999
		4	1043	1	ZX1067	2CPX041933R9999	ZXM1067	2CPX041543R9999
		5	1293	1	ZX1068	2CPX041934R9999	ZXM1068	2CPX041544R9999
Copper rail A2, busbars for cabinet row mounting right and left								
30 x 5	440	1	340	1	ZX1098	2CPX041960R9999	ZXM1098	2CPX041570R9999
		2	590	1	ZX1099	2CPX041961R9999	ZXM1099	2CPX041571R9999
		3	840	1	ZX1100	2CPX041962R9999	ZXM1100	2CPX041572R9999
		4	1090	1	ZX1101	2CPX041963R9999	ZXM1101	2CPX041573R9999
		5	1340	1	ZX1102	2CPX041964R9999	ZXM1102	2CPX041574R9999
30 x 10	630	1	340	1	ZX1104	2CPX041966R9999	ZXM1104	2CPX041576R9999
		2	590	1	ZX1105	2CPX041967R9999	ZXM1105	2CPX041577R9999
		3	840	1	ZX1106	2CPX041968R9999	ZXM1106	2CPX041578R9999
		4	1090	1	ZX1107	2CPX041969R9999	ZXM1107	2CPX041579R9999
		5	1340	1	ZX1108	2CPX041970R9999	ZXM1108	2CPX041580R9999
Copper rail C, connector for TwinLine cabinet row mounting right or left								
30 x 5	250		94	1	ZX1183	2CPX042023R9999	-	-
30 x 10	360		94	1	ZX1184	2CPX042024R9999	-	-
Copper rail C, connector for the pro E power system cabinet row mounting right or left								
30 x 5	250		74	1	ZX1193	2CPX042106R9999	-	-
30 x 10	360		74	1	ZX1194	2CPX042107R9999	-	-

Busbars TriLine system and pro *E* power system

Row mounting for modules M(B)S...31

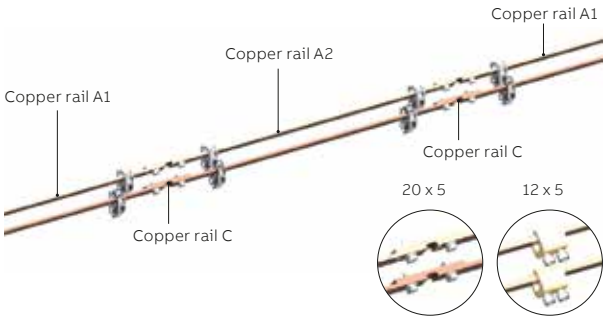


- It is possible to combine different module widths within the cabinet with continuous busbars
- A connector is required for cabinet row mounting for each busbar connection
- The busbar connection is realized outside the module
- Busbar connector, including press-in nuts and attachment material
- 3 copper rails A1/A2 and C are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
Copper rail A1, busbars for cabinet row mounting right or left								
40 x 10	850	1	293	1	ZX1070	2CPX041936R9999	ZXM1070	2CPX041546R9999
		2	543	1	ZX1071	2CPX041937R9999	ZXM1071	2CPX041547R9999
		3	762	1	ZX1072	2CPX041938R9999	ZXM1072	2CPX041548R9999
		4 (2FB+2FB)	1043	1	ZX1073	2CPX041939R9999	ZXM1073	2CPX041549R9999
		5 (3FB+2FB)	1293	1	ZX1074	2CPX041940R9999	ZXM1074	2CPX041550R9999
Copper rail A2, busbars for cabinet row mounting right and left								
40 x 10	850	1	340	1	ZX1110	2CPX041972R9999	ZXM1110	2CPX041582R9999
		2	590	1	ZX1111	2CPX041973R9999	ZXM1111	2CPX041583R9999
		3	840	1	ZX1112	2CPX041974R9999	ZXM1112	2CPX041584R9999
		4 (2FB+2FB)	1090	1	ZX1113	2CPX041975R9999	ZXM1113	2CPX041585R9999
		5 (3FB+2FB)	1340	1	ZX1114	2CPX041976R9999	ZXM1114	2CPX041586R9999
Copper rail C, connector for TwinLine cabinet row mounting right or left								
40 x 10	850		94	1	ZX1185	2CPX042025R9999	-	-
Copper rail C, connector for the pro *E* power system cabinet row mounting right or left								
40 x 10	850		74	1	ZX1195	2CPX042108R9999	-	-

Busbars TriLine system and pro *E* power system

Row mounting for modules M(B)N...69

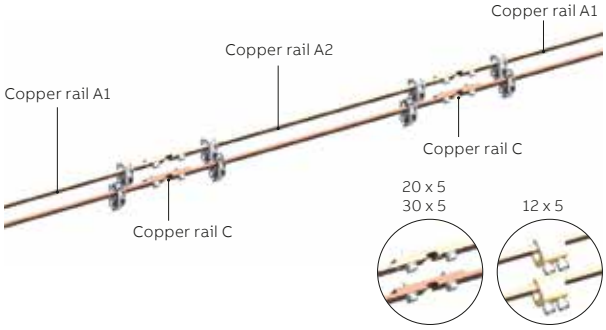


- It is possible to combine different module widths within the cabinet with continuous busbars
- A connector is required for cabinet row mounting for each busbar connection
- The busbar connection is realized outside the module
- Busbar connector, including press-in nuts and attachment material
- 2 copper rails A1/A2 and C are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
Copper rail A1, busbars for cabinet row mounting right or left								
12 x 5	250	1	272	1	ZX2094	2CPX042578R9999	ZXM2094	2CPX042498R9999
		2	522	1	ZX2095	2CPX042579R9999	ZXM2095	2CPX042499R9999
		3	772	1	ZX2096	2CPX042580R9999	ZXM2096	2CPX042500R9999
		4	1022	1	ZX2097	2CPX042581R9999	ZXM2097	2CPX042501R9999
		5	1272	1	ZX2098	2CPX042582R9999	ZXM2098	2CPX042502R9999
20 x 5	320	1	272	1	ZX2112	2CPX042593R9999	ZXM2112	2CPX042513R9999
		2	522	1	ZX2113	2CPX042594R9999	ZXM2113	2CPX042514R9999
		3	772	1	ZX2114	2CPX042595R9999	ZXM2114	2CPX042515R9999
		4	1022	1	ZX2115	2CPX042596R9999	ZXM2115	2CPX042516R9999
		5	1272	1	ZX2116	2CPX042597R9999	ZXM2116	2CPX042517R9999
Copper rail A2, busbars for cabinet row mounting right and left								
12 x 5	250	1	345	1	ZX1080	2CPX041942R9999	ZXM1080	2CPX041552R9999
		2	595	1	ZX1081	2CPX041943R9999	ZXM1081	2CPX041553R9999
		3	845	1	ZX1082	2CPX041944R9999	ZXM1082	2CPX041554R9999
		4	1095	1	ZX1083	2CPX041945R9999	ZXM1083	2CPX041555R9999
		5	1345	1	ZX1084	2CPX041946R9999	ZXM1084	2CPX041556R9999
20 x 5	320	1	340	1	ZX1092	2CPX041954R9999	ZXM1092	2CPX041564R9999
		2	590	1	ZX1093	2CPX041955R9999	ZXM1093	2CPX041565R9999
		3	840	1	ZX1094	2CPX041956R9999	ZXM1094	2CPX041566R9999
		4	1090	1	ZX1095	2CPX041957R9999	ZXM1095	2CPX041567R9999
		5	1340	1	ZX1096	2CPX041958R9999	ZXM1096	2CPX041568R9999
Copper rail C, connector for TwinLine cabinet row mounting right or left								
12 x 5	250		94	1	ZX1180	2CPX042020R9999	-	-
20 x 5	320		94	1	ZX1182	2CPX042022R9999	-	-
Copper rail C, connector for the pro *E* power system cabinet row mounting right or left								
12 x 5	250		74	1	ZX1180	2CPX042020R9999	-	-
20 x 5	320		74	1	ZX1192	2CPX042105R9999	-	-

Busbars TriLine system and pro *E* power system

Row mounting for modules M(B)N...74+75

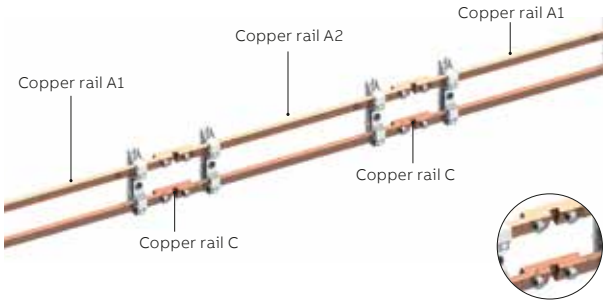


- It is possible to combine different module widths within the cabinet with continuous busbars
- A connector is required for cabinet row mounting for each busbar connection
- The busbar connection is realized outside the module
- Busbar connector, including press-in nuts and attachment material
- 2 copper rails A1/A2 and C are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
Copper rail A1, busbars for cabinet row mounting right or left								
12 x 5	250	1	293	1	ZX1040	2CPX041906R9999	ZXM1040	2CPX041516R9999
		2	543	1	ZX1041	2CPX041907R9999	ZXM1041	2CPX041517R9999
		3	793	1	ZX1042	2CPX041908R9999	ZXM1042	2CPX041518R9999
		4	1043	1	ZX1043	2CPX041909R9999	ZXM1043	2CPX041519R9999
		5	1293	1	ZX1044	2CPX041910R9999	ZXM1044	2CPX041520R9999
20 x 5	320	1	293	1	ZX1052	2CPX041918R9999	ZXM1052	2CPX041528R9999
		2	543	1	ZX1053	2CPX041919R9999	ZXM1053	2CPX041529R9999
		3	793	1	ZX1054	2CPX041920R9999	ZXM1054	2CPX041530R9999
		4	1043	1	ZX1055	2CPX041921R9999	ZXM1055	2CPX041531R9999
		5	1293	1	ZX1056	2CPX041922R9999	ZXM1056	2CPX041532R9999
30 x 5	440	1	293	1	ZX1058	2CPX041924R9999	ZXM1058	2CPX041534R9999
		2	543	1	ZX1059	2CPX041925R9999	ZXM1059	2CPX041535R9999
		3	793	1	ZX1060	2CPX041926R9999	ZXM1060	2CPX041536R9999
		4	1043	1	ZX1061	2CPX041927R9999	ZXM1061	2CPX041537R9999
		5	1293	1	ZX1062	2CPX041928R9999	ZXM1062	2CPX041538R9999
Copper rail A2, busbars for cabinet row mounting right and left								
12 x 5	250	1	345	1	ZX1080	2CPX041942R9999	ZXM1080	2CPX041552R9999
		2	595	1	ZX1081	2CPX041943R9999	ZXM1081	2CPX041553R9999
		3	845	1	ZX1082	2CPX041944R9999	ZXM1082	2CPX041554R9999
		4	1090	1	ZX1083	2CPX041945R9999	ZXM1083	2CPX041555R9999
		5	1340	1	ZX1084	2CPX041946R9999	ZXM1084	2CPX041556R9999
20 x 5	320	1	340	1	ZX1092	2CPX041954R9999	ZXM1092	2CPX041564R9999
		2	590	1	ZX1093	2CPX041955R9999	ZXM1093	2CPX041565R9999
		3	840	1	ZX1094	2CPX041956R9999	ZXM1094	2CPX041566R9999
		4	1090	1	ZX1095	2CPX041957R9999	ZXM1095	2CPX041567R9999
		5	1340	1	ZX1096	2CPX041958R9999	ZXM1096	2CPX041568R9999
30 x 5	440	1	350	1	ZX1098	2CPX041960R9999	ZXM1098	2CPX041570R9999
		2	600	1	ZX1099	2CPX041961R9999	ZXM1099	2CPX041571R9999
		3	850	1	ZX1100	2CPX041962R9999	ZXM1100	2CPX041572R9999
		4	1100	1	ZX1101	2CPX041963R9999	ZXM1101	2CPX041573R9999
		5	1350	1	ZX1102	2CPX041964R9999	ZXM1102	2CPX041574R9999
Copper rail C, connector for TwinLine cabinet row mounting right or left								
12 x 5	250		44	1	ZX1180	2CPX042020R9999	-	-
20 x 5	320		94	1	ZX1182	2CPX042022R9999	-	-
30 x 5	440		94	1	ZX1183	2CPX042023R9999	-	-
Copper rail C, connector for the pro E power system cabinet row mounting right or left								
12 x 5	250		44	1	ZX1180	2CPX042020R9999	-	-
20 x 5	320		74	1	ZX1192	2CPX042105R9999	-	-
30 x 5	440		74	1	ZX1193	2CPX042106R9999	-	-

Busbars TriLine system and pro *E* power system

Row mounting for modules M(B)N...62+63

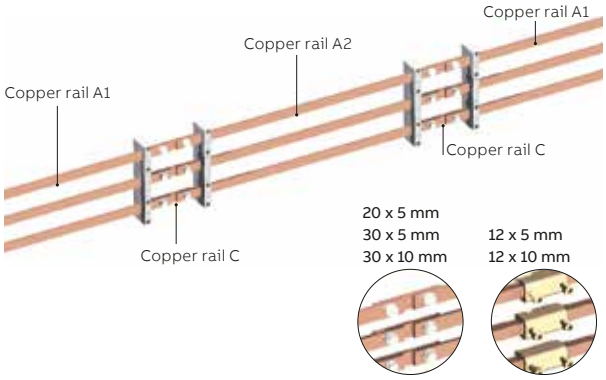


- It is possible to combine different module widths within the cabinet with continuous busbars
- A connector is required for cabinet row mounting for each busbar connection
- The busbar connection is realized outside the module
- Busbar connector, including press-in nuts and attachment material
- 2 copper rails A1/A2 and C are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
Copper rail A1, busbars for cabinet row mounting right or left								
30 x 10	630	1	270	1	ZX2130	2CPX042608R9999	ZXM2130	2CPX042528R9999
		2	520	1	ZX2131	2CPX042609R9999	ZXM2131	2CPX042529R9999
		3	770	1	ZX2132	2CPX042610R9999	ZXM2132	2CPX042530R9999
		4	1020	1	ZX2133	2CPX042611R9999	ZXM2133	2CPX042531R9999
		5	1270	1	ZX2134	2CPX042612R9999	ZXM2134	2CPX042532R9999
Copper rail A2, busbars for cabinet row mounting right and left								
30 x 10	630	1	340	1	ZX1104	2CPX041966R9999	ZXM1104	2CPX041576R9999
		2	590	1	ZX1105	2CPX041967R9999	ZXM1105	2CPX041577R9999
		3	840	1	ZX1106	2CPX041968R9999	ZXM1106	2CPX041578R9999
		4	1090	1	ZX1107	2CPX041969R9999	ZXM1107	2CPX041579R9999
		5	1340	1	ZX1108	2CPX041970R9999	ZXM1108	2CPX041580R9999
Copper rail C, connector for TwinLine cabinet row mounting right or left								
30 x 10	360		94	1	ZX1184	2CPX042024R9999	-	-
Copper rail C, connector for the pro E power system cabinet row mounting right or left								
30 x 10	360		74	1	ZX1194	2CPX042107R9999	-	-

Busbars TriLine system and pro *E* power system

Row mounting for modules M(B)R...03

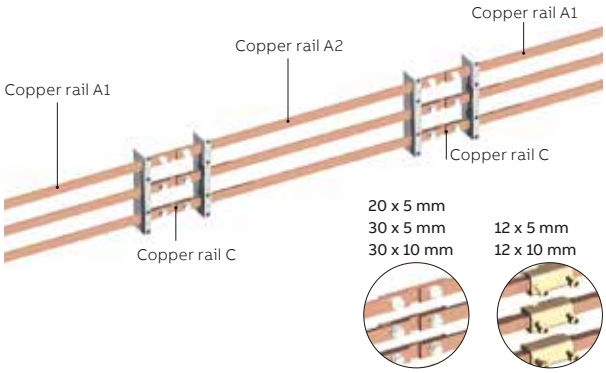


- It is possible to combine different module widths within the cabinet with continuous busbars
- A connector is required for cabinet row mounting for each busbar connection
- The busbar connection is realized outside the module
- Busbar connector for copper 12 x 5 mm and 12 x 10 mm, including connection terminals
- Busbar connector for copper 20 x 5 mm, including press-in nuts and fastening screws
- 3 copper rails A1/A2 and C are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
Copper rail A1, busbars for TriLine cabinet row mounting right or left								
12 x 5	250	1	267	1	ZX2088	2CPX042573R9999	ZXM2088	2CPX042493R9999
		2	517	1	ZX2089	2CPX042574R9999	ZXM2089	2CPX042494R9999
		3	767	1	ZX2090	2CPX042575R9999	ZXM2090	2CPX042495R9999
		4	1017	1	ZX2091	2CPX042576R9999	ZXM2091	2CPX042496R9999
		5	1267	1	ZX2092	2CPX042577R9999	ZXM2092	2CPX042497R9999
12 x 10	360	1	267	1	ZX2100	2CPX042583R9999	ZXM2100	2CPX042503R9999
		2	517	1	ZX2101	2CPX042584R9999	ZXM2101	2CPX042504R9999
		3	767	1	ZX2102	2CPX042585R9999	ZXM2102	2CPX042505R9999
		4	1017	1	ZX2103	2CPX042586R9999	ZXM2103	2CPX042506R9999
		5	1267	1	ZX2104	2CPX042587R9999	ZXM2104	2CPX042507R9999
20 x 5	320	1	267	1	ZX2106	2CPX042588R9999	ZXM2106	2CPX042508R9999
		2	517	1	ZX2107	2CPX042589R9999	ZXM2107	2CPX042509R9999
		3	767	1	ZX2108	2CPX042590R9999	ZXM2108	2CPX042510R9999
		4	1017	1	ZX2109	2CPX042591R9999	ZXM2109	2CPX042511R9999
		5	1267	1	ZX2110	2CPX042592R9999	ZXM2110	2CPX042512R9999
30 x 5	440	1	267	1	ZX2118	2CPX042598R9999	ZXM2118	2CPX042518R9999
		2	517	1	ZX2119	2CPX042599R9999	ZXM2119	2CPX042519R9999
		3	767	1	ZX2120	2CPX042600R9999	ZXM2120	2CPX042520R9999
		4	1017	1	ZX2121	2CPX042601R9999	ZXM2121	2CPX042521R9999
		5	1267	1	ZX2122	2CPX042602R9999	ZXM2122	2CPX042522R9999
30 x 10	630	1	267	1	ZX2124	2CPX042603R9999	ZXM2124	2CPX042523R9999
		2	517	1	ZX2125	2CPX042604R9999	ZXM2125	2CPX042524R9999
		3	767	1	ZX2126	2CPX042605R9999	ZXM2126	2CPX042525R9999
		4	1017	1	ZX2127	2CPX042606R9999	ZXM2127	2CPX042526R9999
		5	1267	1	ZX2128	2CPX042607R9999	ZXM2128	2CPX042527R9999

Busbars TriLine system and pro *E* power system

Row mounting for modules M(B)R...03



- It is possible to combine different module widths within the cabinet with continuous busbars
- A connector is required for cabinet row mounting for each busbar connection
- The busbar connection is realized outside the module
- Busbar connector for copper 12 x 5 mm and 12 x 10 mm, including connection terminals
- Busbar connector for copper 20 x 5 mm, including press-in nuts and fastening screws
- 3 copper rails A1/A2 and C are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
Copper rail A2, busbars for cabinet row mounting right and left								
12 x 5	250	1	345	1	ZX1080	2CPX041942R9999	ZXM1080	2CPX041552R9999
		2	595	1	ZX1081	2CPX041943R9999	ZXM1081	2CPX041553R9999
		3	845	1	ZX1082	2CPX041944R9999	ZXM1082	2CPX041554R9999
		4	1095	1	ZX1083	2CPX041945R9999	ZXM1083	2CPX041555R9999
		5	1345	1	ZX1084	2CPX041946R9999	ZXM1084	2CPX041556R9999
12 x 10	360	1	340	1	ZX1086	2CPX041948R9999	ZXM1086	2CPX041558R9999
		2	590	1	ZX1087	2CPX041949R9999	ZXM1087	2CPX041559R9999
		3	840	1	ZX1088	2CPX041950R9999	ZXM1088	2CPX041560R9999
		4	1090	1	ZX1089	2CPX041951R9999	ZXM1089	2CPX041561R9999
		5	1340	1	ZX1090	2CPX041952R9999	ZXM1090	2CPX041562R9999
20 x 5	320	1	340	1	ZX1092	2CPX041954R9999	ZXM1092	2CPX041564R9999
		2	590	1	ZX1093	2CPX041955R9999	ZXM1093	2CPX041565R9999
		3	840	1	ZX1094	2CPX041956R9999	ZXM1094	2CPX041566R9999
		4	1090	1	ZX1095	2CPX041957R9999	ZXM1095	2CPX041567R9999
		5	1340	1	ZX1096	2CPX041958R9999	ZXM1096	2CPX041568R9999
30 x 5	440	1	340	1	ZX1098	2CPX041960R9999	ZXM1098	2CPX041570R9999
		2	590	1	ZX1099	2CPX041961R9999	ZXM1099	2CPX041571R9999
		3	840	1	ZX1100	2CPX041962R9999	ZXM1100	2CPX041572R9999
		4	1090	1	ZX1101	2CPX041963R9999	ZXM1101	2CPX041573R9999
		5	1340	1	ZX1102	2CPX041964R9999	ZXM1102	2CPX041574R9999
30 x 10	630	1	340	1	ZX1104	2CPX041966R9999	ZXM1104	2CPX041576R9999
		2	590	1	ZX1105	2CPX041967R9999	ZXM1105	2CPX041577R9999
		3	840	1	ZX1106	2CPX041968R9999	ZXM1106	2CPX041578R9999
		4	1090	1	ZX1107	2CPX041969R9999	ZXM1107	2CPX041579R9999
		5	1340	1	ZX1108	2CPX041970R9999	ZXM1108	2CPX041580R9999
Copper rail C, connector for TwinLine cabinet row mounting right or left								
12 x 5	250		44	1	ZX1180	2CPX042020R9999	-	-
12 x 10	360		44	1	ZX1181	2CPX042021R9999	-	-
20 x 5	320		94	1	ZX1182	2CPX042022R9999	-	-
30 x 5	440		94	1	ZX1183	2CPX042023R9999	-	-
30 x 10	630		94	1	ZX1184	2CPX042024R9999	-	-
Copper rail C, connector for the pro *E* power system cabinet row mounting right or left								
12 x 5	250		44	1	ZX1180	2CPX042020R9999	-	-
12 x 10	360		44	1	ZX1181	2CPX042021R9999	-	-
20 x 5	320		74	1	ZX1192	2CPX042105R9999	-	-
30 x 5	440		74	1	ZX1193	2CPX042106R9999	-	-
30 x 10	630		74	1	ZX1194	2CPX042107R9999	-	-

Busbars TriLine system and pro *E* power system

Row mounting of modules 100 mm, NH00 switch disconnectors, M(B)D...52(B)



ZXM1215

- Busbars for individual cabinet installation
- With the EDF and WR mounting frame, defined combinations (see info FB width) are possible within the cabinet. The different busbars can be connected via a connection set
- The NH00 fuse switch disconnection rails are mounted directly on the copper rails prepared with press-in nuts
- Set positions are specified for feeding in on copper rails
- 3 copper rails are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
30 x 10	630	1	184	1	ZX1210	2CPX042121R9999	ZXM1210	2CPX042230R9999
		2	434	1	ZX1211	2CPX042122R9999	ZXM1211	2CPX042231R9999
		3	684	1	ZX1212	2CPX042123R9999	ZXM1212	2CPX042232R9999
40 x 10	850	1	184	1	ZX1213	2CPX042124R9999	ZXM1213	2CPX042233R9999
		2	434	1	ZX1214	2CPX042125R9999	ZXM1214	2CPX042234R9999
		3	684	1	ZX1215	2CPX042126R9999	ZXM1215	2CPX042235R9999





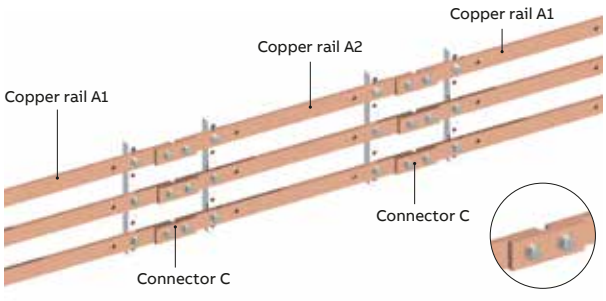
ZX1217

- Busbars connection set (cabinet-cabinet)
- **Important:** Note the cabinet depth when using a connection set
- A ZX22... P3 set with 3 connectors is required per connection

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
Copper rail C, connector for the cabinet row mounting right or left for the TriLine system								
30 x 10	630		230	3	ZX2216P3	on request	-	-
40 x 10	850		230	3	ZX2217P3	on request	-	-
Copper rail C, connector for the cabinet row mounting right or left for the pro *E* power system								
30 x 10	630		230	3	ZX2218P3	on request	-	-
40 x 10	850		230	3	ZX2219P3	on request	-	-

Busbars TriLine system and pro *E* power system

Row mounting of modules 185 mm, switch disconnectors, M(B)D..21-300(B)

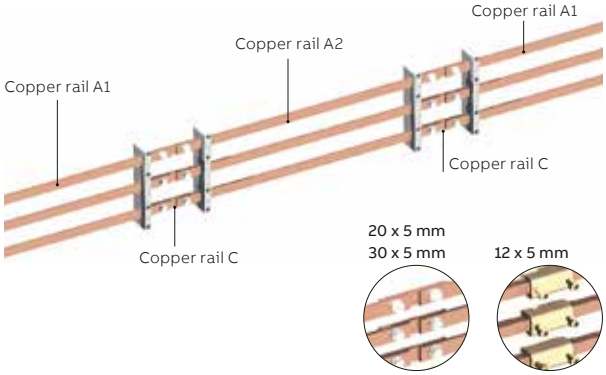


- Combinations of different module widths are possible within a cabinet with continuous busbars.
- The busbars A1 and A2 are provided with press-in nuts to assemble the NH-in-line fused load break switches.
- The busbar connection is realized outside the module
- 3 copper rails A1 or A2 and 3 or 6 copper connectors C are required per module
- The busbars A1 are required for cabinet row mounting right or left (right extension)
- The busbars A2 are required for cabinet row mounting right and left (both sides extension)
- A busbar connector C is required for each busbar connection
- The busbar connector is delivered with the press-in nuts and attachment material

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
Copper rail A1, busbars for the cabinet row mounting right or left (right extension) for the TriLine and pro *E* power systems								
30 x 10	630	1	274	1	ZX2520	2CPX042968R9999	ZXM2520	2CPX043316R9999
		2	524	1	ZX2521	2CPX042969R9999	ZXM2521	2CPX043317R9999
		3	774	1	ZX2522	2CPX042970R9999	ZXM2522	2CPX043318R9999
		4 (2FB+2FB)	1024	1	ZX2523	2CPX042971R9999	ZXM2523	2CPX043319R9999
		5 (3FB+2FB)	1274	1	ZX2524	2CPX042972R9999	ZXM2524	2CPX043320R9999
4 x 10	850	1	274	1	ZX2525	2CPX042973R9999	ZXM2525	2CPX043321R9999
		2	524	1	ZX2526	2CPX042974R9999	ZXM2526	2CPX043322R9999
		3	774	1	ZX2527	2CPX042975R9999	ZXM2527	2CPX043323R9999
		4 (2FB+2FB)	1024	1	ZX2528	2CPX042976R9999	ZXM2528	2CPX043324R9999
		5 (3FB+2FB)	1274	1	ZX2529	2CPX042977R9999	ZXM2529	2CPX043325R9999
Copper rail A2, busbars for the cabinet row mounting right and left (both sides extension) for the TriLine and pro *E* power systems								
30 x 10	630	1	333	1	ZX2530	2CPX042978R9999	ZXM2530	2CPX043326R9999
		2	583	1	ZX2531	2CPX042979R9999	ZXM2531	2CPX043327R9999
		3	833	1	ZX2532	2CPX042980R9999	ZXM2532	2CPX043328R9999
		4 (2FB+2FB)	1083	1	ZX2533	2CPX042981R9999	ZXM2533	2CPX043329R9999
		5 (3FB+2FB)	1333	1	ZX2534	2CPX042982R9999	ZXM2534	2CPX043330R9999
40 x 10	850	1	333	1	ZX2535	2CPX042983R9999	ZXM2535	2CPX043331R9999
		2	583	1	ZX2536	2CPX042984R9999	ZXM2536	2CPX043332R9999
		3	833	1	ZX2537	2CPX042985R9999	ZXM2537	2CPX043333R9999
		4 (2FB+2FB)	1083	1	ZX2538	2CPX042986R9999	ZXM2538	2CPX043334R9999
		5 (3FB+2FB)	1333	1	ZX2539	2CPX042987R9999	ZXM2539	2CPX043335R9999
Copper rail C, connector for the cabinet row mounting right and/or left for the TriLine pro *E* power systems								
30 x 10	630		100	1	ZX2540	2CPX042988R9999	ZXM2540	2CPX043336R9999
40 x 10	850		100	1	ZX2541	2CPX042989R9999	ZXM2541	2CPX043337R9999

Busbars TriLine system and pro *E* power system

Row mounting for modules M(B)R...02(B)

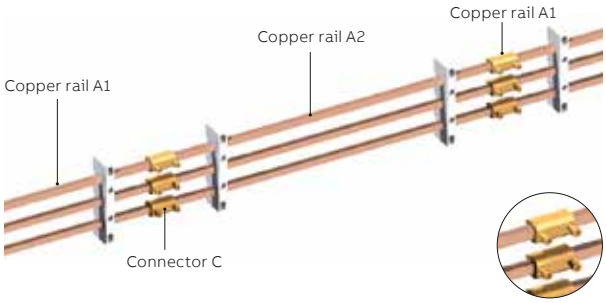


- It is possible to combine different module widths within the cabinet with continuous busbars
- A connector is required for cabinet row mounting for each busbar connection
- The busbar connection is realized outside the module
- Busbar connector for copper 12 x 5 mm and 12 x 10 mm, including connection terminals
- Busbar connector for copper 20 x 5 mm, including press-in nuts and fastening screws
- 3 copper rails A1/A2 and C are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
Copper rail A1, busbars for cabinet row mounting right or left								
12 x 5	250	1	293	1	ZX1040	2CPX041906R9999	ZXM1040	2CPX041516R9999
		2	543	1	ZX1041	2CPX041907R9999	ZXM1041	2CPX041517R9999
		3	793	1	ZX1042	2CPX041908R9999	ZXM1042	2CPX041518R9999
		4	1043	1	ZX1043	2CPX041909R9999	ZXM1043	2CPX041519R9999
		5	1293	1	ZX1044	2CPX041910R9999	ZXM1044	2CPX041520R9999
20 x 5	320	1	293	1	ZX1052	2CPX041918R9999	ZXM1052	2CPX041528R9999
		2	543	1	ZX1053	2CPX041919R9999	ZXM1053	2CPX041529R9999
		3	793	1	ZX1054	2CPX041920R9999	ZXM1054	2CPX041530R9999
		4	1043	1	ZX1055	2CPX041921R9999	ZXM1055	2CPX041531R9999
		5	1293	1	ZX1056	2CPX041922R9999	ZXM1056	2CPX041532R9999
30 x 5	440	1	293	1	ZX1058	2CPX041924R9999	ZXM1058	2CPX041534R9999
		2	543	1	ZX1059	2CPX041925R9999	ZXM1059	2CPX041535R9999
		3	793	1	ZX1060	2CPX041926R9999	ZXM1060	2CPX041536R9999
		4	1043	1	ZX1061	2CPX041927R9999	ZXM1061	2CPX041537R9999
		5	1293	1	ZX1062	2CPX041928R9999	ZXM1062	2CPX041538R9999
Copper rail A2, busbars for cabinet row mounting right and left								
12 x 5	250	1	345	1	ZX1080	2CPX041942R9999	ZXM1080	2CPX041552R9999
		2	595	1	ZX1081	2CPX041943R9999	ZXM1081	2CPX041553R9999
		3	845	1	ZX1082	2CPX041944R9999	ZXM1082	2CPX041554R9999
		4	1095	1	ZX1083	2CPX041945R9999	ZXM1083	2CPX041555R9999
		5	1345	1	ZX1084	2CPX041946R9999	ZXM1084	2CPX041556R9999
20 x 5	320	1	340	1	ZX1092	2CPX041954R9999	ZXM1092	2CPX041564R9999
		2	590	1	ZX1093	2CPX041955R9999	ZXM1093	2CPX041565R9999
		3	840	1	ZX1094	2CPX041956R9999	ZXM1094	2CPX041566R9999
		4	1090	1	ZX1095	2CPX041957R9999	ZXM1095	2CPX041567R9999
		5	1340	1	ZX1096	2CPX041958R9999	ZXM1096	2CPX041568R9999
30 x 5	440	1	340	1	ZX1098	2CPX041960R9999	ZXM1098	2CPX041570R9999
		2	590	1	ZX1099	2CPX041961R9999	ZXM1099	2CPX041571R9999
		3	840	1	ZX1100	2CPX041962R9999	ZXM1100	2CPX041572R9999
		4	1090	1	ZX1101	2CPX041963R9999	ZXM1101	2CPX041573R9999
		5	1340	1	ZX1102	2CPX041964R9999	ZXM1102	2CPX041574R9999
Copper rail C, connector for TwinLine cabinet row mounting right or left								
12 x 5	250		44	1	ZX1180	2CPX042020R9999	-	-
20 x 5	320		94	1	ZX1182	2CPX042022R9999	-	-
30 x 5	440		94	1	ZX1183	2CPX042023R9999	-	-
Copper rail C, connector for the pro *E* power system cabinet row mounting right or left								
12 x 5	250		44	1	ZX1180	2CPX042020R9999	-	-
20 x 5	320		74	1	ZX1192	2CPX042105R9999	-	-
30 x 5	440		74	1	ZX1193	2CPX042106R9999	-	-

Busbars TriLine system and pro *E* power system

Row mounting for modules M(B)T...50+51(B)

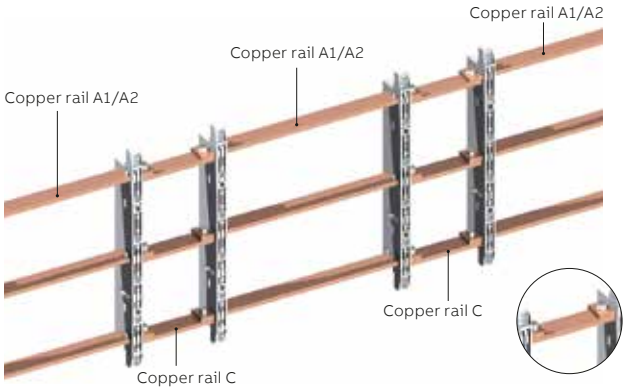


- It is possible to combine different module widths within the cabinet with continuous busbars
- A connector is required for cabinet row mounting for each busbar connection
- The busbar connection is realized outside the module
- Busbar connector, including connection terminals
- 3 copper rails A1/A2 and C are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
Copper rail A1, busbars for cabinet row mounting right or left								
12 x 5	250	2	543	1	ZX1041	2CPX041907R9999	ZXM1041	2CPX041517R9999
		3	793	1	ZX1042	2CPX041908R9999	ZXM1042	2CPX041518R9999
		4	1043	1	ZX1043	2CPX041909R9999	ZXM1043	2CPX041519R9999
		5	1293	1	ZX1044	2CPX041910R9999	ZXM1044	2CPX041520R9999
12 x 10	360	2	543	1	ZX1047	2CPX041913R9999	ZXM1047	2CPX041523R9999
		3	793	1	ZX1048	2CPX041914R9999	ZXM1048	2CPX041524R9999
		4	1043	1	ZX1049	2CPX041915R9999	ZXM1049	2CPX041525R9999
		5	1293	1	ZX1050	2CPX041916R9999	ZXM1050	2CPX041526R9999
Copper rail A2, busbars for cabinet row mounting right and left								
12 x 5	250	2	595	1	ZX1081	2CPX041943R9999	ZXM1081	2CPX041553R9999
		3	845	1	ZX1082	2CPX041944R9999	ZXM1082	2CPX041554R9999
		4	1095	1	ZX1083	2CPX041945R9999	ZXM1083	2CPX041555R9999
		5	1345	1	ZX1084	2CPX041946R9999	ZXM1084	2CPX041556R9999
12 x 10	360	2	590	1	ZX1087	2CPX041949R9999	ZXM1087	2CPX041559R9999
		3	840	1	ZX1088	2CPX041950R9999	ZXM1088	2CPX041560R9999
		4	1090	1	ZX1089	2CPX041951R9999	ZXM1089	2CPX041561R9999
		5	1340	1	ZX1090	2CPX041952R9999	ZXM1090	2CPX041562R9999
Copper rail C, connector for TwinLine cabinet row mounting right or left								
12 x 5	250		44	1	ZX1180	2CPX042020R9999	-	-
12 x 10	360		44	1	ZX1181	2CPX042021R9999	-	-
Copper rail C, connector for the pro *E* power system cabinet row mounting right or left								
12 x 5	250		44	1	ZX1180	2CPX042020R9999	-	-
12 x 10	360		44	1	ZX1181	2CPX042021R9999	-	-

Busbars TriLine system and pro *E* power system

Row mounting for modules M(B)L...5



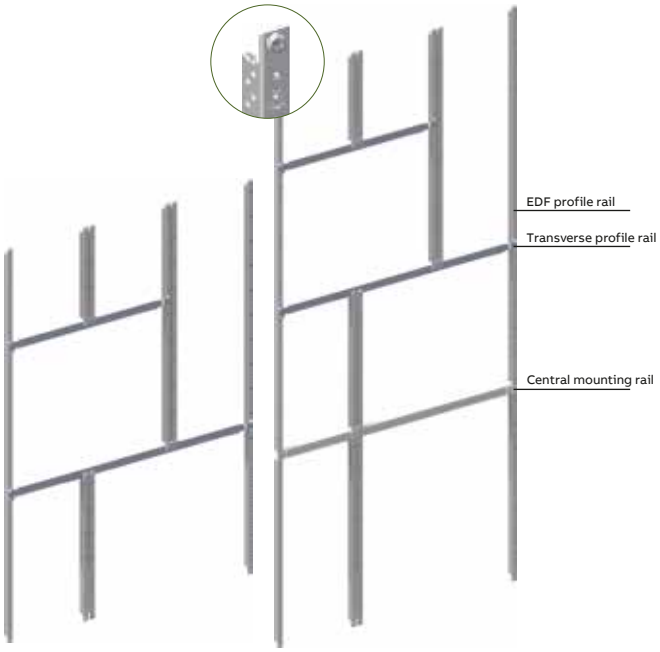
- It is possible to combine different module widths within the cabinet with continuous busbars
- A connector is required for cabinet row mounting for each busbar connection
- The busbar connection is realized outside the module
- Busbar connector, including press-in nuts and attachment material
- 3 copper rails A1/A2 and C are required per module

Copper rail	I_n	Width			Kit not installed		Mounted and installed in the cabinet	
mm	A	FB	mm	Unit	Type	Order code	Type	Order code
Copper rail A1/A2, busbars for TriLine cabinet row mounting right or left								
40 x 10	850	2	496	1	ZX1032	2CPX041901R9999	ZXM1032	2CPX041511R9999
		3	746	1	ZX1033	2CPX041902R9999	ZXM1033	2CPX041512R9999
		4	996	1	ZX1034	2CPX041903R9999	ZXM1034	2CPX041513R9999
		5	1246	1	ZX1035	2CPX041904R9999	ZXM1035	2CPX041514R9999
Copper rail A1/A2, busbars for cabinet row mounting right and left								
40 x 10	850	2	496	1	ZX1032	2CPX041901R9999	ZXM1032	2CPX041511R9999
		3	746	1	ZX1033	2CPX041902R9999	ZXM1033	2CPX041512R9999
		4	996	1	ZX1034	2CPX041903R9999	ZXM1034	2CPX041513R9999
		5	1246	1	ZX1035	2CPX041904R9999	ZXM1035	2CPX041514R9999
Copper rail C, connector for TwinLine cabinet row mounting right or left								
40 x 10	850		165	1	ZX1186	2CPX042887R9999	-	-
Copper rail C, connector for the pro *E* power system cabinet row mounting right or left								
40 x 10	850		165	1	ZX1196	2CPX042109R9999	-	-

Notes

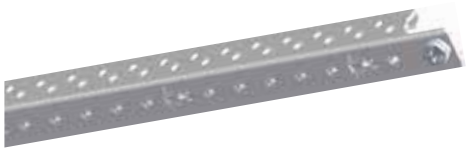
Interior expansion system CombiLine N

EDF mounting frame parts



Wall cabinet Standalone cabinet

Setup possibilities with EDF mounting frame parts in the variable setup with transverse profile rails
The vertical EDF profile rails are prepared for receiving modules. The use of a transverse profile rail is necessary to connect different field widths.
The TwinLine wall cabinets are prepared for the setup with the EDF mounting frame parts. In the TwinLine standalone cabinet, it is necessary to use a central mounting rail and EDF adapters (see TwinLine chapter).
For the installation of CombiLine modules in ComfortLine A wall cabinets, additional fastening parts CZ11 have to be ordered.



EDM9

- Vertical EDF profile rail
- Including fastening screws
- To set up the modules up to 400 A

	Height			Kit not installed		Mounted and installed in the cabinet	
Description	**RE**	**mm**	**Unit**	**Type**	**Order code**	**Type**	**Order code**
Vertical EDF profile rail	1	150	1	ED7	2CPX041865R9999	EDM7	2CPX041455R9999
			20	ED7P20	2CPX041866R9999	-	-
	2	300	1	ED8	2CPX039208R9999	EDM8	2CPX041456R9999
			20	ED8P20	2CPX062311R9999	-	-
	3	450	1	ED9	2CPX039209R9999	EDM9	2CPX041457R9999
			20	ED9P20	2CPX062312R9999	-	-
	4	600	1	ED10	2CPX039210R9999	EDM10	2CPX041458R9999
			20	ED10P20	2CPX062313R9999	-	-
	5	750	1	ED11	2CPX039211R9999	EDM11	2CPX041459R9999
			20	ED11P20	2CPX062314R9999	-	-
	6	900	1	ED12	2CPX039212R9999	EDM12	2CPX041460R9999
			20	ED12P20	2CPX062315R9999	-	-
	7	1050	1	ED13	2CPX039213R9999	EDM13	2CPX041461R9999
			20	ED13P20	2CPX062316R9999	-	-
	8	1200	1	ED14	2CPX039214R9999	EDM14	2CPX041462R9999
			20	ED14P20	2CPX062317R9999	-	-
	9	1350	1	ED15	2CPX039215R9999	EDM15	2CPX041463R9999
			20	ED15P20	2CPX062318R9999	-	-
Vertical EDF profile rail For holding touch protection covers during free removal	12	1800	1	ED18	2CPX039216R9999	-	-
			20	ED18P20	2CPX062325R9999	-	-
	14	2100	1	ED20	2CPX039218R9999	-	-

Interior expansion system CombiLine N

EDF mounting frame parts



ED112

- Horizontal transverse profile rails for field distribution upwards **and** downwards
- Including fastening screws

	Width			Kit not installed		Mounted and installed in the cabinet	
Description	**FB**	**mm**	**Unit**	**Type**	**Order code**	**Type**	**Order code**
Transverse profile rail	2	500	1	ED112	2CPX068572R9999	EDM112	2CPX041464R9999
			10	ED112P10	2CPX062736R9999	-	-
	3	750	1	ED113	2CPX068573R9999	EDM113	2CPX041465R9999
			10	ED113P10	2CPX062737R9999	-	-



ED122

- Horizontal transverse profile rails for field distribution upwards **or** downwards
- Including fastening screws

	Width			Kit not installed		Mounted and installed in the cabinet	
Description	**FB**	**mm**	**Unit**	**Type**	**Order code**	**Type**	**Order code**
Transverse profile rail	2	500	1	ED122	2CPX042847R9999	EDM122	2CPX042845R9999
			10	ED122P10	2CPX062738R9999	-	-
	3	750	1	ED123	2CPX042848R9999	EDM123	2CPX042846R9999
			10	ED123P10	2CPX062739R9999	-	-



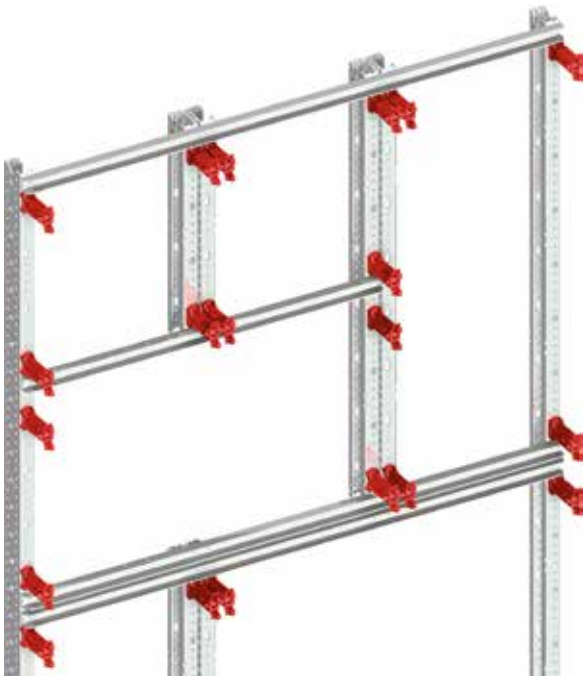
ED403

- EDF profile rails for stabilizing the DIN rails with each other
- Included in the scope of delivery by default with 3-field width modules

	Height			Kit not installed		Mounted and installed in the cabinet	
Description	**RE**	**mm**	**Unit**	**Type**	**Order code**	**Type**	**Order code**
For rail-mounted device modules with a rail spacing 125 mm	2	152	1	ED402	2CPX042615R9999	-	-
	3	276	1	ED403	2CPX042616R9999	-	-
	4	401	1	ED404	2CPX042617R9999	-	-
	5	527	1	ED405	2CPX042618R9999	-	-
For rail-mounted device modules with a rail spacing 150 mm	2	177	1	ED412	2CPX042619R9999	-	-
	3	327	1	ED413	2CPX042620R9999	-	-
	4	477	1	ED414	2CPX042621R9999	-	-
	5	627	1	ED415	2CPX042622R9999	-	-

Interior expansion system CombiLine N

WR mounting frame parts



Setup possibilities with WR mounting frame parts in the variable setup with transverse profile rails.
The vertical WR profile rails are prepared for receiving modules. The use of a transverse profile rail is necessary to connect different field widths. The WR mounting frame is used in the TwinLine standalone cabinet. The EDF adapters of the mounting frame holder are removed for assembly in the TwinLine wall cabinet.



- WR mounting frame, complete
- WR profile rail, vertical with transverse profile rail
- To set up the modules up to 850 A

WRM281

	Width			Kit not installed		Mounted and installed in the cabinet	
Description	**FB**	**mm**	**Unit**	**Type**	**Order code**	**Type**	**Order code**
WR mounting frame For all standalone and series switching cabinets from a depth of 225 mm Height 12 RE, 1800 mm	1	250	1	WR181	2CPX042858R9999	WRM181	2CPX042849R9999
	2	500	1	WR281	2CPX042859R9999	WRM281	2CPX042850R9999
	3	750	1	WR381	2CPX042860R9999	WRM381	2CPX042851R9999
	4	1000	1	WR481	2CPX042861R9999	WRM481	2CPX042852R9999
WR mounting frame For series switching cabinets from a depth of 325 mm Height 14 RE, 2100 mm	1	250	1	WR1101	2CPX042862R9999	WRM1101	2CPX042853R9999
	2	500	1	WR2101	2CPX042863R9999	WRM2101	2CPX042854R9999
	3	750	1	WR3101	2CPX042864R9999	WRM3101	2CPX042855R9999
	4	1000	1	WR4101	2CPX042865R9999	WRM4101	2CPX042856R9999

Interior expansion system CombiLine N

WR mounting frame parts



ZW213

- Vertical WR profile rail
- For the height compensation when using transverse profile rails

	Height			Kit not installed		Mounted and installed in the cabinet	
Description	**RE**	**mm**	**Unit**	**Type**	**Order code**	**Type**	**Order code**
Vertical WR profile rail	1	150	1	ZW367	2CPX041850R9999	ZWM367	2CPX041432R9999
	2	300	1	ZW368	2CPX041851R9999	ZWM368	2CPX041433R9999
	3	450	1	ZW369	2CPX041852R9999	ZWM369	2CPX041434R9999
	4	600	1	ZW370	2CPX041853R9999	ZWM370	2CPX041435R9999
	5	750	1	ZW371	2CPX041854R9999	ZWM371	2CPX041436R9999
	6	900	1	ZW372	2CPX041855R9999	ZWM372	2CPX041437R9999
	7	1050	1	ZW373	2CPX041856R9999	ZWM373	2CPX041438R9999
	8	1200	1	ZW374	2CPX041857R9999	ZWM374	2CPX041439R9999
	9	1350	1	ZW375	2CPX041858R9999	ZWM375	2CPX041440R9999
	10	1500	1	ZW376	2CPX041859R9999	ZWM376	2CPX041441R9999
	11	1650	1	ZW377	2CPX041860R9999	ZWM377	2CPX041442R9999
	12	1800	1	ZW213	2CPX060141R9999	ZWM213	2CPX041430R9999
			10	ZW213P10	2CPX062641R9999	-	-
			300	ZW213P300	2CPX062714R9999	-	-
	13	1950	1	ZW378	2CPX041861R9999	ZWM378	2CPX041443R9999
	14	2100	1	ZW214	2CPX060142R9999	ZWM214	2CPX041431R9999
			10	ZW214P10	2CPX062642R9999	-	-



ZW165

- Horizontal transverse profile rails for field distribution
- Including fastening screws
- Two transverse profile rails are required for field distribution upwards and downwards

	Width			Kit not installed		Mounted and installed in the cabinet	
Description	**FB**	**mm**	**Unit**	**Type**	**Order code**	**Type**	**Order code**
Horizontal transverse profile rail	1	250	1	ZW164	2CPX042866R9999	ZWM164	2CPX042857R9999
			10	ZW164P10	2CPX062710R9999	-	-
	2	500	1	ZW165	2CPX041862R9999	ZWM165	2CPX041444R9999
			10	ZW165P10	2CPX062711R9999	-	-
	3	750	1	ZW166	2CPX041863R9999	ZWM166	2CPX041445R9999
			10	ZW166P10	2CPX062712R9999	-	-
	4	1000	1	ZW167	2CPX041864R9999	ZWM167	2CPX041446R9999
			10	ZW167P10	2CPX062713R9999	-	-
	5	1250	1	ZW168	2CPX042950R9999	-	-
	6	1500	1	ZW163	2CPX042951R9999	-	-



ZW209

- As transverse profile rails in the WR mounting frame

Horizontal WR profile rail	1	186	1	ZW209	2CPX039207R9999	-	-
	2	436	1	ZW210	2CPX060138R9999	-	-
	3	686	1	ZW211	2CPX060139R9999	-	-
	4	936	1	ZW212	2CPX060140R9999	-	-

Interior expansion system CombiLine N

Mounting frames / installation sets





WNF3

EDF installation set Required when installing distrabution board panels, combination sets, meter panels or modules on the EDF mounting frame on the WR mounting frame.			
Article	**Unit**	**Type**	**Order code**
1 panel wide	1	WNF1	2CPX045961R9999
2 panel wide	1	WNF2	2CPX045962R9999
3 panel wide	1	WNF3	2CPX045963R9999
4 panel wide	1	WNF4	2CPX045964R9999
5 panel wide = WNF2 + WNF3		-	-





RNF3

EDF installation set Required when fitting universal cross members and profiles Required when installing distrabution board panels, combination sets, meter panels or modules on the EDF mounting frame.			
1 panel wide	1	RNF1	2CPX045956R9999
2 panel wide	1	RNF2	2CPX045957R9999
3 panel wide	1	RNF3	2CPX045958R9999
4 panel wide	1	RNF4	2CPX045958R9999
5 panel wide	1	RNF5	2CPX045960R9999



ZW61LR

System parts for EDF installation set ENF			
Brachet set for support rails - 1 x left and 1 x right	1	ZW61LR	2CPX062455R9999



ZW50

Support rail, top or bottom			
1 panel wide	1	ZW50	2CPX039459R9999
2 panel wide	1	ZW46	2CPX039446R9999
3 panel wide	1	ZW47	2CPX039447R9999
4 panel wide	1	ZW48	2CPX039448R9999



ZW41

Support rail, centre			
1 panel wide	1	ZW41	2CPX039441R9999
2 panel wide	1	ZW42	2CPX039442R9999
3 panel wide	1	ZW43	2CPX039443R9999
4 panel wide	1	ZW44	2CPX039444R9999

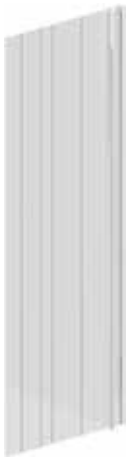


RZ21

System parts for EDF installation set ENF			
Support rail, top or bottom			
1 panel wide	1	RZ21	2CPX045966R9999
2 panel wide	1	RZ22	2CPX045967R9999
3 panel wide	1	RZ23	2CPX045968R9999
4 panel wide	1	RZ24	2CPX045969R9999
5 panel wide	1	RZ25	2CPX045970R9999

Interior expansion system CombiLine N

Plastic partitions



ZX69

Article	Height RE	Height BH	Unit	Type	Order code
Vertical partitions, plastic Not fault arc-proof, separation from adjacent module, distribution panel, meter panel, partition is inserted in adjacent module in the cover bracket, color similar to RAL 7035	3	00	1	ZX69	2CPX039069R9999
	4	0	1	ZX70	2CPX039070R9999
	5	1	1	ZX71	2CPX039071R9999
	6	2	1	ZX72	2CPX039072R9999
	7	3	1	ZX73	2CPX039073R9999
	8	4	1	ZX74	2CPX039074R9999
	9	5	1	ZX75	2CPX039075R9999



ZX86

Article	Width FB	Width mm	Unit	Type	Order code
Horizontal partitions, plastic Not fault arc-proof, separation from adjacent module, distribution panel, meter panel, partition is inserted in adjacent module in the cover bracket, color similar to RAL 7035	1	250	1	ZX86	2CPX039086R9999
	2	500	1	ZX87	2CPX039087R9999

Interior expansion system CombiLine N

Sheet steel partitions



ZX820

Article	Height RE	Height BH	Unit	Type	Order code
For TwinLine-G cabinets					
Vertical partitions, sheet steel Not fault arc-proof, separation from the adjacent module, distribution panel, meter panel, partition is riveted to WR profile / EDF profile; the partition is provided for the attachment position 0*	3	00	1	ZX810	2CPX010675R9999
	4	0	1	ZX811	2CPX010676R9999
	5	1	1	ZX812	2CPX010677R9999
	6	2	1	ZX813	2CPX010678R9999
	7	3	1	ZX814	2CPX010679R9999
	8	4	1	ZX815	2CPX010680R9999
	9	5	1	ZX816	2CPX010681R9999
	12	8	1	ZX817	2CPX010682R9999
For TwinLine-L cabinets					
Vertical partitions, sheet steel Not fault arc-proof, separation from the adjacent module, distribution panel, meter panel, partition is riveted to WR profile / EDF profile; the partition is provided for the attachment position 0*	3	00	1	ZX820	2CPX010683R9999
	4	0	1	ZX821	2CPX010684R9999
	5	1	1	ZX822	2CPX010685R9999
	6	2	1	ZX823	2CPX010686R9999
	7	3	1	ZX824	2CPX010687R9999
	8	4	1	ZX825	2CPX010688R9999
	9	5	1	ZX826	2CPX010689R9999
	12	8	1	ZX827	2CPX010690R9999
For TwinLine-W cabinets					
Vertical partitions, sheet steel Not fault arc-proof, separation from the adjacent module, distribution panel, meter panel, partition is riveted to WR profile / EDF profile; the partition is provided for the attachment position 0*	3	00	1	ZX830	2CPX010691R9999
	4	0	1	ZX831	2CPX010692R9999
	5	1	1	ZX832	2CPX010693R9999
	6	2	1	ZX833	2CPX010694R9999
	7	3	1	ZX834	2CPX010695R9999
	8	4	1	ZX835	2CPX010696R9999
	9	5	1	ZX836	2CPX010697R9999
	12	8	1	ZX837	2CPX010698R9999
For TwinLine-X cabinets					
Vertical partitions, sheet steel Not fault arc-proof, separation from the adjacent module, distribution panel, meter panel, partition is riveted to WR profile / EDF profile; the partition is provided for the attachment position 0*	3	00	1	ZX860	2CPX011001R9999
	4	0	1	ZX861	2CPX011002R9999
	5	1	1	ZX862	2CPX011003R9999
	6	2	1	ZX863	2CPX011004R9999
	7	3	1	ZX864	2CPX011005R9999
	8	4	1	ZX865	2CPX011006R9999
	9	5	1	ZX866	2CPX011007R9999
	12	8	1	ZX867	2CPX011008R9999



ZX840

For TwinLine-G-, TwinLine-L,- and TwinLine-W cabinets					
Horizontal partitions, sheet steel Not fault arc-proof, separation from the adjacent module, distribution panel, meter panel, partition is screwed to WR profile / EDF profile via additional mounting rail; the partition is provided for the attachment position 0*	1	250	1	ZX840	2CPX010699R9999
	2	500	1	ZX841	2CPX010700R9999
	3	750	1	ZX842	2CPX010701R9999
For TwinLine-X cabinets					
Horizontal partitions, sheet steel Not fault arc-proof, separation from the adjacent module, distribution panel, meter panel, partition is screwed to WR profile / EDF profile via additional mounting rail; the partition is provided for the attachment position 0*	1	250	1	ZX843	2CPX011009R9999
	2	500	1	ZX844	2CPX011010R9999
	3	750	1	ZX845	2CPX011011R9999

Interior expansion system CombiLine N

Partitions made of sheet steel for EDF mounting frame



ZX469

Article	Height RE	Height BH	Unit	Type	Order code
For U-, A- and B cabinets					
Vertical partitions, sheet steel Not fault arc-proof, separation from adjacent module Distribution panel, meter panel Partition wall is riveted to EDF mounting frame	3	00	1	ZX469	2CPX039541R9999
	4	0	1	ZX470	2CPX039542R9999
	5	1	1	ZX471	2CPX039543R9999
	6	2	1	ZX472	2CPX039544R9999
	7	3	1	ZX473	2CPX039545R9999
	8	4	1	ZX474	2CPX039546R9999
	9	5	1	ZX475	2CPX039547R9999
For TwinLine H cabinets					
Vertical partitions, sheet steel Not fault arc-proof, separation from adjacent module Distribution panel to distribution panel Partition wall is riveted to EDF mounting frame	3	00	1	ZX479	2CPX039549R9999
	4	0	1	ZX480	2CPX039550R9999
	5	1	1	ZX481	2CPX039551R9999
	6	2	1	ZX482	2CPX039552R9999
	7	3	1	ZX483	2CPX039553R9999
	8	4	1	ZX484	2CPX039554R9999
	9	5	1	ZX485	2CPX039555R9999



ZX502

Article	Width FB	Width mm	Unit	Type	Order code
For U-, A- and B cabinets					
Horizontal partitions, sheet steel Not fault arc-proof, pushed between the cover brackets when used with EDF mounting frame	1	250	1	ZX502	2CPX039567R9999
	2	500	1	ZX503	2CPX039568R9999
For TwinLine H cabinets					
Horizontal partitions, sheet steel Not fault arc-proof, pushed between the cover brackets when used with EDF mounting frame	1	250	1	ZX497	2CPX039563R9999
	2	500	1	ZX498	2CPX039564R9999

Interior expansion system CombiLine N

Partitions made of sheet steel for WR mounting frame

RZ151

Article	Height RE	Height BH	Depth mm	Unit	Type	Order code
For TriLine® cabinets						
Vertical partitions, sheet steel Not fault arc-proof, WR mounting frame to WR mounting frame Partition wall is riveted to WR mounting frame	12	8	425	1	RZ151	2CPX046561R9999
	14	10	425	1	RZ155	2CPX046565R9999
	12	8	625	1	RZ152	2CPX046562R9999
	14	10	625	1	RZ156	2CPX046566R9999



RZ161

Article	Width FB	Width mm	Depth mm	Unit	Type	Order code
For TriLine® cabinets						
Horizontal partitions, sheet steel Not fault arc-proof, with additional mounting profile for assembly on the WR mounting frame	1	250	425	1	RZ161	2CPX046571R9999
	2	500	425	1	RZ162	2CPX046572R9999
	3	750	425	1	RZ163	2CPX046573R9999
	1	250	625	1	RZ164	2CPX046574R9999
	2	500	625	1	RZ165	2CPX046575R9999
	3	750	625	1	RZ166	2CPX046576R9999

Interior expansion system CombiLine N

General accessories



ZX66P4



ED44P10



ED45P10



ED59P10



ED57P10



ED42P10



ED43P10



ED47



ZA1P5

Article	Unit	Type	Order code
Device carrier connector For connecting EDF and WR mounting frames	4	ZX66P4	2CPX062562R9999
	50	ZX66P50	2CPX068614R9999
Wire holder For wire guidance, installation depth 28.5 mm, to be inserted into the DIN rail from the rear	10	ED44P10	2CPX062335R9999
	50	ED44P50	2CPX062308R9999
	1000	ED44P1000	2CPX062703R9999
Wire holder For the wire guidance or receiving a plastic tube of ∅ 38 mm, installation depth 55 mm, to be inserted in the DIN rail from the rear	10	ED45P10	2CPX062336R9999
	50	ED45P50	2CPX062310R9999
	1000	ED45P1000	2CPX062704R9999
DIN rails adapter For ED44 and ED45, to be snapped onto the DIN rail from the front	10	ED59P10	2CPX062339R9999
Adapter To assemble the wire holders ED44 and ED45 on the perforated mounting plate	10	ED57P10	2CPX061179R9999
Console for the ED44 and ED45 wire holders To be inserted in the DIN rail from the rear	10	ED42P10	2CPX062333R9999
Console for the ED44 and ED45 wire holders To be snapped onto the DIN rail from the front	10	ED43P10	2CPX062334R9999
Cover As a view shutter for wire guidance in the wire holder ED44 and ED45, 1 m long	1	ED47	2CPX039309R9999
Blanking plates For 12 space units, breakable Color RAL 7035	5	ZA1P5	2CPX062384R9999
	50	ZA1P50	2CPX062378R9999
Running meter Color RAL 7035	1	ZA2	2CPX038231R9999
	20	ZA2P20	2CPX062379R9999

Interior expansion system CombiLine N

General accessories



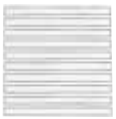
ZA8

Article	Unit	Type	Order code
Marking stripes			
20 mm, self-adhesive, 1-field width	1	ZA8	2CPX060200R9999
	5	ZA8P5	2CPX062598R9999
	40	ZA8P40	2CPX062731R9999
20 mm, self-adhesive, 2-field width	1	ZA9	2CPX060201R9999
	5	ZA9P5	2CPX062599R9999
	50	ZA9P50	2CPX062732R9999
20 mm, self-adhesive, 3-field width	1	ZA7	2CPX060004R9999
	5	ZA7P5	2CPX062597R9999
20 mm, self-adhesive, per running meter	1	ZA10	2CPX038241R9999
	10	ZA10P10	2CPX062706R9999
20 mm, self-adhesive, with additional transparent film, per running meter	1	ZA11	2CPX038230R9999
	10	ZA11P10	2CPX062707R9999
16 mm, self-adhesive, per running meter	1	ZA12	2CPX038242R9999
	10	ZA12P10	2CPX062708R9999



ZA71

Labeling system for busbars L1, L2, L3, N, PE, 1 sheet = 120 different stickers	1	ZA71	2CPX038458R9999



ZA27

Labeling system Self-adhesive, for manual or automatic labeling, comprising: 1 sheet with 10 strips	1	ZA27	2CPX038495R9999



ZA73

Labeling system For distribution panel, up to 6 RE	1	ZA73	2CPX038497R9999



ZA74

Labeling system For distribution panel, up to 9 RE	1	ZA74	2CPX038498R9999



ZA78

Labeling system For 8 x 12 PLE	1	ZA78	2CPX031569R9999



ZA79

Legend for 72 devices PLE	1	ZA79	2CPX031570R9999

Interior expansion system CombiLine N

Connecting terminals for copper rails



ZK79



ZK81



ZK150



ZK178



ZK87



ZK157



ZK154



ZK156



ZK83



ZK152



ZK891P4



ZK86



ZK302



ZK75

Article	Copper rails Dimensions in mm	Connection cross-section in mm²	Unit	Type	Order code
Connecting terminals for latching onto copper rails With retaining spring	5	1.5 - 16	1	ZK79	2CPX064879R9999
			4	ZK79P4	2CPX062421R9999
			5	ZK79P5	2CPX062631R9999
			50	ZK79P50	2CPX062429R9999
	5	4 - 35	1	ZK81	2CPX064881R9999
			4	ZK81P4	2CPX062422R9999
			5	ZK81P5	2CPX062632R9999
			50	ZK81P50	2CPX062431R9999
	5	2.5 - 50	1	ZK150	2CPX064860R9999
			4	ZK150P4	2CPX062427R9999
			5	ZK150P5	2CPX062633R9999
			50	ZK150P50	2CPX062432R9999
	5	16 - 70	1	ZK178	2CPX064978R9999
			50	ZK178P50	2CPX062622R9999
	5	16 - 120	1	ZK157	2CPX064867R9999
			50	ZK157P50	2CPX062437R9999
	10	1.5 - 16	1	ZK87	2CPX064887R9999
			4	ZK87P4	2CPX062424R9999
			50	ZK87P50	2CPX062430R9999
	10	16 - 70	1	ZK156	2CPX064866R9999
			50	ZK156P50	2CPX062438R9999
	10	16 - 120	1	ZK154	2CPX064864R9999
			50	ZK154P50	2CPX062435R9999
Connecting terminals with insertion part for assembly from the front	12 x 5	16 - 95	1	ZK83	2CPX064883R9999
	12 x 10	16 - 70	4	ZK83P4	2CPX062423R9999
			5	ZK83P5	2CPX062655R9999
			50	ZK83P50	2CPX062433R9999
	30 x 5 30 x 10	50 - 120 50 - 120	1	ZK152	2CPX064862R9999
			20	ZK152P20	2CPX062444R9999
Frame terminals for sliding onto copper rails	12 x 5 12 x 10	16 - 150 16 - 150	4	ZK891P4	2CPX062626R9999
	12 x 5 12 x 10	35 - 185 35 - 120	1	ZK86	2CPX064886R9999
			20	ZK86P20	2CPX062434R9999
Attachment clamp For fastening on copper rail	5/10	10 - 95	1	ZK302	2CPX062645R9999
			20	ZK302P20	2CPX062648R9999
	5/10	16 - 150	1	ZK303	2CPX062646R9999
			20	ZK303P20	2CPX062649R9999
	5/10	35 - 240	1	ZK304	2CPX062647R9999
			20	ZK304P20	2CPX062650R9999
Busbar connection terminal for connecting with insulating cap		25	1	ZK75	2CPX038220R9999

Interior expansion system parts

DIN rails and DIN rail accessories



ED1



ED51



ED74



ZX21



ZX371



ZK90P2



ZX372P2



ZK103P2

Article	Use for...	Unit	Type	Order code
DIN rail 35 x 15 mm **Wide rail 1: for assembly on the mounting frame** For EDF and WR mounting frame, with hole pattern for wire holders ED44/ED45				
1-field width, length 244 mm	M(B)K...12/M(B)G1... M(B)G41.../ M(B)A160ALA	1	ED1	2CPX039381R9999
		30	ED1P30	2CPX062319R9999
2-field width, length 494 mm	M(B)U270 M(B)G2.../M(B)G42...	1	ED2	2CPX039382R9999
		30	ED2P30	2CPX062320R9999
3-field width, length 744 mm	M(B)U370 M(B)G3.../M(B)G43...	1	ED3	2CPX039383R9999
		30	ED3P30	2CPX062321R9999
4-field width, length 994 mm	_	1	ED4	2CPX039384R9999
		30	ED4P30	2CPX062735R9999
By meter Length 2000 mm	_	1	ED6	2CPX039386R9999
		10	ED6P10	2CPX062705R9999
DIN rail 35 x 15 mm **Wide rail 2: for assembly between the mounting frame**				
1-field width, length 188 mm	M(B)V1.../ M(B)K1... M(B)N1...	1	ED51	2CPX039251R9999
		30	ED51P30	2CPX062322R9999
2-field width, length 438 mm	M(B)V2.../ M(B)K2... M(B)K...13/M(B)C2...HS M(B)N2...	1	ED52	2CPX039252R9999
		30	ED52P30	2CPX062323R9999
3-field width, length 688 mm	M(B)K3... M(B)C3..HS/M(B)N3...	1	ED53	2CPX039253R9999
		30	ED53P30	2CPX062324R9999
4-field width, length 938 mm	-	1	ED54	2CPX039254R9999
DIN rail 35 x 15 mm For terminal block modules, vertical, length 591 mm, module height 600 mm/4RE	M(B)K...14	1	ED74	2CPX042185R9999
DIN rail 35 x 7.5 mm For assembly on the mounting frame				
1-field width, length 244 mm	M(B)K1...K	1	ZX21	2CPX039021R9999
		30	ZX21P30	2CPX062554R9999
2-field width, length 494 mm	M(B)K2...K	1	ZX22	2CPX039022R9999
		30	ZX22P30	2CPX062555R9999
DIN rail 35 x 7.5 mm For assembly between the mounting frame				
1-field width, length 188 mm	M(B)K1...K	1	ZX371	2CPX068076R9999
2-field width, length 438 mm	-	1	ZX389	2CPX068190R9999
Insulator piece For DIN rails 35 x 7.5 and 35 x 15 mm including attachment material	M(B)K...K	2	ZK90P2	2CPX062426R9999
		100	ZK90P100	2CPX068613R9999
Mounting bracket For ZK90P2	M(B)K1...K	2	ZX372P2	2CPX062544R9999
Isolator Piece For DIN rails 35x7,5 and 35x15 mm	M(B)K...K	2 100	ZK103P2 ZK103P100	2CPX068626R9999 2CPX068627R9999

Interior expansion system parts

Wide rails for EDF or WR mounting frame



ZW223



ZW228



ZW233



ZW248

Article	Unit	Type	Order code
Aluminum profile rail profile no. 1 25 x 14 mm, mounting hole ∅ 6.2 mm			
Wide rail 1: for assembly on the mounting frame			
1-field width, length 244 mm	1	ZW11	2CPX039411R9999
2-field width, length 494 mm	1	ZW12	2CPX039412R9999
3-field width, length 744 mm	1	ZW13	2CPX039413R9999
4-field width, length 994 mm	1	ZW14	2CPX039414R9999
Wide rail 2: for assembly between the mounting frame			
1-field width, length 186 mm	1	ZW223	2CPX060323R9999
2-field width, length 436 mm	1	ZW224	2CPX060324R9999
3-field width, length 686 mm	1	ZW225	2CPX060325R9999
Aluminum profile rail profile no. 2 25 x 20 mm, mounting hole ∅ 6.2 mm			
Wide rail 1: for assembly on the mounting frame			
3-field width, length 744 mm	1	ZW216	2CPX060144R9999
4-field width, length 994 mm	1	ZW217	2CPX060145R9999
Wide rail 2: for assembly between the mounting frame			
1-field width, length 186 mm	1	ZW228	2CPX060328R9999
2-field width, length 436 mm	1	ZW229	2CPX060329R9999
3-field width, length 686 mm	1	ZW230	2CPX060330R9999
4-field width, length 936 mm	1	ZW231	2CPX060331R9999
Aluminum profile rail profile no. 3 32 x 25 mm, mounting hole ∅ 8.2 mm			
Wide rail 1: for assembly on the mounting frame			
1-field width, length 244 mm	1	ZW16	2CPX039416R9999
2-field width, length 494 mm	1	ZW17	2CPX039417R9999
3-field width, length 744 mm	1	ZW18	2CPX039418R9999
4-field width, length 994 mm	1	ZW19	2CPX039419R9999
Wide rail 2: for assembly between the mounting frame			
1-field width, length 186 mm	1	ZW233	2CPX060333R9999
2-field width, length 436 mm	1	ZW234	2CPX060334R9999
3-field width, length 686 mm	1	ZW235	2CPX060335R9999
4-field width, length 936 mm	1	ZW236	2CPX060336R9999
Cable clamp rail profile no. 10 35 x 19 mm, galvanized sheet steel, mounting hole ∅ 6.2 mm			
Wide rail 1: for assembly on the mounting frame			
1-field width, length 244 mm	1	ZW219	2CPX060198R9999
2-field width, length 494 mm	1	ZW220	2CPX060146R9999
3-field width, length 744 mm	1	ZW221	2CPX060147R9999
4-field width, length 994 mm	1	ZW222	2CPX060148R9999
Wide rail 2: for assembly between the mounting frame			
1-field width, length 186 mm	1	ZW248	2CPX060199R9999
2-field width, length 436 mm	1	ZW249	2CPX060349R9999
3-field width, length 686 mm	1	ZW250	2CPX060350R9999
4-field width, length 936 mm	1	ZW251	2CPX060351R9999

> Bolt clamps and saddle clamps for profile no. 10 page 229
> Slide nuts and flat nuts 229

Wide rails representation for EDF or WR mounting frame



Wide rail 1
For assembly on the mounting frame



Wide rail 2
For assembly between the mounting frame

Interior expansion system parts

Profile rails and mounting bracket

	Article	Use for...	Unit	Type	Order code
 ZW395	**Transverse rail 3-field width*** Busbar carrier Fixed position	M(B)T350(B) M(B)T351(B) M(B)H350(B) M(B)H351(B) M(B)R302(B)	1	ZW395	2CPX041136R9999
 ZW396	**Transverse rail 3-field width*** Busbar carrier position can be moved if necessary	M(B)R303 M(B)S324 M(B)S327	1	ZW396	2CPX041137R9999
 ZX343  ZX334	**Assembly bracket** For busbar modules S700 and S750 For EDF or WR mounting frame	M(B)H...50	1	ZX343	2CPX064152R9999
	For modules for line connection For lowering DIN rails For EDF or WR mounting frame	M(B)V...80 M(B)V...81	1	ZX334	2CPX064166R9999
 ZW480  ZW481	**Deep angle piece** For busbar module equipment 100 mm With 3-stage adjustability For EDF or WR mounting frame	M(B)D...52(B)	4	ZW480	2CPX042239R9999
	For busbar module equipment 185 mm With 2-stage adjustability For WR mounting frame	M(B)D...21-300(B)	4	ZW481	2CPX042195R9999
 ZW482	**Bracket with NH + EFM cover** For busbar module equipment 185 mm For WR mounting frame	M(B)D...21-300(B)	2	ZW482	2CPX042196R9999
 ZX321LR  ZW389LR	45° inclined for busbar module For EDF or WR mounting frame	M(B)S...28	1	ZX321LR	2CPX064160R9999
	For busbar module 40/60 mm When using ZB5/ZX151 For WR mounting frame	M(B)S...24 M(B)S...27	1	ZW389LR	2CPX062635R9999
 ZX342	For busbar carrier ZX520 For WR mounting frame	-	1	ZX342	2CPX062661R9999
 ZW64	For attaching transverse profiles on the WR frame including attachment material	WR...8	1	ZW64	2CPX039464R9999
		WR...10	40	ZW64P40	2CPX062475R9999
 ZW485P2	**MBB holder set** for busbar holders ZX522	M(B)X...	2	ZW485P2	2CPX063200R9999
 ZW490P2	**N holder** for N/PE busbar holder ZX563	M(B)X...N	2	ZW490P2	2CPX062798R9999
 ZW491P2	**PE holder**	M(B)X...N	2	ZW491P2	2CPX062799R9999

Interior expansion system parts

T Deep angle piece for EDF or WR mounting frame



ZW39P2



ZW59P2



ZW79P2



ZW259P2



ED33P2



ZW60P2



ZW142P2

Article	Use for...	Unit	Type	Order code
Deep angle piece*, adjustment range 42 mm Distance between deep angle piece and cover of 83 - 125 mm*[2] For EDF or WR profile For variable assembly ⏚	M(B)K106 to M(B)K310 M(B)K112 to M(B)K314	2	ZW39P2	2CPX062681R9999
		100	ZW39P100	2CPX062715R9999
Deep angle piece*, adjustment range 71 mm Distance between deep angle piece and cover of 106 - 153 mm*[2] For EDF or WR profile For variable assembly ⏚	M(B)K107 to M(B)K310 M(B)M111 to M(B)M315 M(B)F183 to M(B)F383	2	ZW59P2	2CPX062660R9999
		100	ZW59P100	2CPX062716R9999
Deep angle piece*, adjustment range 107 mm Distance between deep angle piece and cover of 142 - 190 mm*[2] For EDF or WR profile For variable assembly ⏚	M(B)F184 to M(B)F384	2	ZW79P2	2CPX062688R9999
		100	ZW79P100	2CPX062717R9999
Deep angle piece*, adjustment range 64 mm Distance between deep angle piece and cover of 99 - 147 mm*[2] for interconnecting copper rails For EDF or WR profile For variable assembly ⏚	M(B)T250 to M(B)T351	2	ZW259P2	2CPX062679R9999
Deep angle piece, adjustment range 62 mm Distance between deep angle piece and cover of 77 - 139 mm*[2] For EDF profile For variable assembly ⏚	Distributor panels with mounting plate	2	ED33P2	2CPX062305R9999
		100	ED33P100	2CPX062307R9999
Deep angle piece, adjustment range 60 mm Distance between deep angle piece and cover of 119 - 179 mm*[2] For WR profile For assembly in the 15 mm grid ⏚	Free expansion	2	ZW60P2	2CPX062454R9999
		100	ZW60P100	2CPX062476R9999
Deep angle piece, adjustment range 88 mm Distance between deep angle piece and cover of 128 - 216 mm*[2] For WR profile For variable assembly ⏚	M(B)L100 to M(B)L300 M(B)S131 to M(B)S331	2	ZW142P2	2CPX062463R9999
		40	ZW142P40	2CPX062477R9999

*[2] When using cover bracket ED138 with a height of 52.5 mm

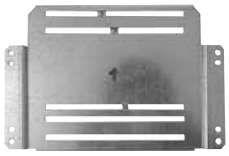
Interior expansion system parts

Mounting cross-beams busbar modules / universal application

	Article	Use for...	Unit	Type	Order code
	Mounting cross-bars for busbar modules				
ZW253	For busbar modules Equipment 40 mm	M(B)T350/M(B)T351	1	ZW253	2CPX062680R9999
 **ZW252**	For busbar module 40/60 mm For busbar carrier ZX151 for additional support	M(B)S327 M(B)S324/M(B)H350	1	ZW252	2CPX062664R9999
 **ZW255**	For busbar module equipment 60 mm For busbar carrier ZX146 for additional support	M(B)R302(B)	1	ZW255	2CPX064151R9999
 **ZW256**	For busbar module equipment 60 mm For busbar carrier ZX146 for additional support	M(B)R303(B)	1	ZW256	2CPX062678R9999
 **ZW399**	For busbar module equipment 60 mm For busbar carrier ZX146 For EDF or WR mounting frame	M(B)R...H	1	ZW399	2CPX062972R9999
 **ZW384**	For busbar module 40/60 mm For busbar carrier ZX151 For EDF mounting frame	M(B)S...24 M(B)S...27	1	ZW384	2CPX062748R9999
 **ZW403LR**	For busbar module equipment 60 mm For busbar carrier ZX146, deep-installed For WR mounting frame	M(B)R...03	1	ZW403LR	2CPX062974R9999
	Mounting cross-bars for busbar carrier ZX518				
 **ZX322**	45° inclined for busbar module 1-field width	M(B)S128	1	ZX322	2CPX064159R9999
ZX333	45° inclined for busbar module 2-field width	M(B)S228	1	ZX333	2CPX064163R9999
 **ZW386**	For N/PE busbar module Indented for busbar carrier	M(B)N...69	1	ZW386	2CPX062749R9999
 **ZW390P2**	For N/PE busbar module For additional support	M(B)N274, M(B)N275 M(B)N374, M(B)N375	2	ZW390P2	2CPX062486R9999
	Mounting cross-beam for terminal blocks module				
 **ZW322**	195 mm	M(B)K112-114	1	ZW322	2CPX068541R9999
	435 mm	M(B)K212-214	1	ZW323	2CPX068542R9999
	685 mm	M(B)K312-314	1	ZW324	2CPX068543R9999

Interior expansion system parts

Mounting cross-bars for power switch and load break switch



ED160



ED171



ED166



ED167



ED162



ED163

ED168



ED155



ED173

Article	Use for...	Unit	Type	Order code
Mounting cross-beams for power switches Make: ABB, series: Tmax XT Including M4 sliding nuts				
1-field width, Tmax XT1, XT3 useful width of 199 mm	MA100ALXB - MA250ALXB M(B)A190T	1	ED160	2CPX068773R9999
2-field width, Tmax XT1, XT3 useful width of 449 mm	M(B)A290T	1	ED260	2CPX062977R9999
3-field width, Tmax XT1, XT3 useful width of 699 mm	M(B)A390T	1	ED360	2CPX062978R9999
1-field width, Tmax XT2 useful width of 199 mm	M(B)A191T	1	ED170	2CPX068388R9999
2-field width, Tmax XT2 useful width of 449 mm	M(B)A291T	1	ED270	2CPX068390R9999
3-field width, Tmax XT2 useful width of 699 mm	M(B)A391T	1	ED370	2CPX068391R9999
1-field width, Tmax XT4 useful width of 199 mm	M(B)A193T	1	ED171	2CPX068389R9999
1-field width Tmax T4, 3-pole Tmax T5 (400), 3-pole	M(B)A192T	1	ED166	2CPX064155R9999
2-field width Tmax T4, 4-pole, Tmax T5, 3- and 4-pole	M(B)A292T	1	ED167	2CPX064156R9999
Mounting cross-beam for load break switch 1-field width For OT200E03P and OT250E03P	MA200ALAB - MA250ALAB MA250ALA	1	ED162	2CPX068807R9999
2-field width For OT400E03P and OT630E03P	MA400ALAB - MA630ALAB MA630ALA	1	ED163	2CPX068808R9999
1-field width For OS160GD03PN3P and OS250GD03PN3P	MBA250ALO MBW250A	1	ED168	2CPX039312R9999
Universal mounting cross-beams with fastening screws and cage nuts M4, M5, M6, M8 (2 cross-beams are required per switch) Useful width/depth				
For switch 250 A, 1-field width Cage nut each 2 x M4, M5, M6 170 mm / 135 mm	M(B)A250A	1	ED155	2CPX067963R9999
For switch 630 A, 2-field width Cage nut each 2 x M5, M6 420 mm / 153 mm	M(B)A630A MA400ALSB - MA630ALSB	1	ED158	2CPX067969R9999
For switch 800 A, 2-field width Cage nut each 2 x M5, M6, M8 420 mm/161 mm	M(B)A800A	1	ED173	2CPX067998R9999

Interior expansion system parts

Mounting cross-bars for power switch and fuse switch disconnector

Article		Use for...	Unit	Type	Order code
 ED450	**2-field width** For XT5	MX208LX	1	ED450	2CPX063194R9999
 ED451	**2-field width** For XT6	MX210LX	1	ED451	2CPX063195R9999
 ED452	**2-field width** For XT7	MX211LX	1	ED452	2CPX063196R9999
 ED453	**2-field width** For OT630-800	MX208LA	1	ED453	2CPX063197R9999
 ED454	**3-field width** For OT1000-1250	MX310LA	1	ED454	2CPX063198R9999
 ED455	**3-field width** For ATS500-800	MX308A	1	ED455	2CPX063199R9999

Interior expansion system parts

Mounting cross-beam for disconnector mounting



ZX31



ZX34



ZW162



ZH235



ZH238



ZW159



ZW160



ZH418



ZX35



ZX297P10

Article	Use for...	Unit	Type	Order code
Mounting cross-beam for disconnector mounting With fastening screws and cage nuts for:				
1/2 disconnector NH00 1-field width	M(B)T135(B) M(B)T136(B) M(B)T137(B)	1	ZX31	2CPX039031R9999
		10	ZX31P10	2CPX062480R9999
4 disconnector NH00 2-field width	M(B)T236(B) M(B)T237(B)	1	ZX34	2CPX039034R9999
		10	ZX34P10	2CPX062481R9999
6 disconnector NH00 3-field width	M(B)T336(B) M(B)T337(B)	1	ZW162	2CPX039458R9999
1 disconnector NH1 1-field width	M(B)T142(B) M(B)T143(B)	1	ZH235	2CPX039841R9999
1 disconnector NH2 1-field width	M(B)T144(B) M(B)T145(B)	1	ZH238	2CPX039837R9999
2 disconnectors NH1 or NH2 2-field width	M(B)T242(B) M(B)T243(B) M(B)T244(B) M(B)T245(B)	1	ZW159	2CPX039455R9999
3 disconnectors NH1 or NH2 3-field width	M(B)T345(B) M(B)T343(B) M(B)T344(B) M(B)T345(B)	1	ZW160	2CPX039456R9999
Mounting cross-beam for disconnector mounting For NH00 disconnector for setup on a DIN rail	-	1	ZH418	2CPX062968R9999
Mounting cross-beam for installation without holes Without fastening screws and cage nuts				
Field width 1	1MK..A	1	ZX35	2CPX060638R9999
Field width 2	2MK..A	1	ZX39	2CPX060213R9999
Cage nuts For disconnector cross-beams and telecom technology				
M4	ED160 - ED360 ED170 - ED370 ED171/ZX35	10	ZX299P10	2CPX060639R9999
M6	ZX31/ZX34/ZW162	10	ZX297P10	2CPX062541R9999
M8	ZH235/ZH238 ZW159/ZW160	10	ZX298P10	2CPX062542R9999

Interior expansion system parts

Assembly plates for depressed and fitted assembly



ZW365



ZX605

Article	Use for...	Unit	Type	Order code
Mounting plates for assembly between the mounting frame For depressed assembly with deep angle piece Deep angle pieces are to be ordered separately H x W				
1-field width				
1 RE, 116 x 188 mm	M(B)M111	1	ZW365	2CPX068073R9999
2 RE, 266 x 188 mm	M(B)M112	1	ZW338	2CPX067938R9999
3 RE, 416 x 188 mm	M(B)M113	1	ZW341	2CPX067941R9999
4 RE, 566 x 188 mm	M(B)M114	1	ZW344	2CPX067944R9999
5 RE, 716 x 188 mm	M(B)M115	1	ZW362	2CPX068070R9999
2-field width				
1 RE, 116 x 438 mm	M(B)M211	1	ZW336	2CPX067936R9999
2 RE, 266 x 438 mm	M(B)M212	1	ZW339	2CPX067939R9999
3 RE ,416 x 438 mm	M(B)M213	1	ZW342	2CPX067942R9999
4 RE, 566 x 438 mm	M(B)M214	1	ZW345	2CPX067945R9999
5 RE, 716 x 438 mm	M(B)M215	1	ZW363	2CPX068071R9999
3-field width				
1 RE, 116 x 688 mm	M(B)M311	1	ZW337	2CPX067937R9999
2 RE, 266 x 688 mm	M(B)M312	1	ZW340	2CPX067940R9999
3 RE, 416 x 688 mm	M(B)M313	1	ZW343	2CPX067943R9999
4 RE, 566 x 688 mm	M(B)M314	1	ZW346	2CPX067946R9999
5 RE, 716 x 688 mm	M(B)M315	1	ZW364	2CPX068072R9999
Mounting plates **For assembly on the mounting frame** For fitted assembly in the small distributor without deep angle piece				
1-field width 2 RE, 266 x 200 mm	M(B)M112K	1	ZX605	2CPX067776R9999
1-field width 3 RE, 416 x 200 mm	M(B)M113K	1	ZX606	2CPX067777R9999
1-field width 4 RE, 566 x 200 mm	M(B)M114K	1	ZX607	2CPX064154R9999

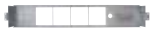
Interior expansion system parts

Mounting frame/meter support plates/switch cabinet lighting


ZX382


ZX381


ZX379


ZX380


ZX390


ZX24


ZX304


ZX305


ZX574


ZX378P20

Article	Use for...	Unit	Type	Order code
Mounting frame for measuring devices 96 x 96 mm				
1-field width	M(B)U156	1	ZX382	2CPX068186R9999
	M(B)U157 M(B)U158	1	ZX381	2CPX068086R9999
2-field width	M(B)U257	1	ZX379	2CPX068084R9999
3-field width	M(B)U357	1	ZX380	2CPX068085R9999
Mounting frame for NH load break switches Make ABB SlimLine				
2-field width	M(B)L25	1	ZX390	2CPX068560R9999
3-field width	M(B)L35	1	ZX391	2CPX068561R9999
Line protective hose				
Installation kit M 20	M(B)V180	1	ZX24	2CPX068538R9999
Installation kit M 32	M(B)V181, M(B)V281	1	ZX25	2CPX068539R9999
Installation kit M 40	M(B)V182, M(B)V282	1	ZX26	2CPX068540R9999
Meter support plates for WR profile				
1-field width, height 450 mm, For a meter, without head part	M(B)Z160	1	ZX304	2CPX060294R9999
1-field width, height 750 mm, For two meters, without head part	M(B)Z161	1	ZX305	2CPX060295R9999
Head part for meter support plates Including mounting material 1-field width	M(B)Z160 M(B)Z161	1	ZX574	2CPX068781R9999
Spacer piece for meter support plates	M(B)Z160 M(B)Z161	20	ZX378P20	2CPX062547R9999

Interior expansion system parts

Yard goods busbars



ZX400



ZX406



ZX403



ZX365



ZX409



ZX362



ZX412



ZX415

Article	Unit	Type	Order code
Rated current (I_n) 250 A Copper rail 12 x 5 mm			
1 m	1	ZX400	2CPX061400R9999
2 m	1	ZX401	2CPX061401R9999
3 m	1	ZX402	2CPX061402R9999
4 m	1	ZX350	2CPX061350R9999
Rated current (I_n) 320 A Copper rail 20 x 5 mm			
1 m	1	ZX406	2CPX061406R9999
2 m	1	ZX407	2CPX061407R9999
3 m	1	ZX408	2CPX061408R9999
4 m	1	ZX351	2CPX061351R9999
Rated current (I_n) 360 A Copper rail 12 x 10 mm			
1 m	1	ZX403	2CPX061403R9999
2 m	1	ZX404	2CPX061404R9999
3 m	1	ZX405	2CPX061405R9999
4 m	1	ZX354	2CPX061354R9999
Rated current (I_n) 390 A Copper rails 25 x 5 mm			
1 m	1	ZX365	2CPX061365R9999
2 m	1	ZX366	2CPX061366R9999
3 m	1	ZX367	2CPX061367R9999
4 m	1	ZX352	2CPX061352R9999
Rated current (I_n) 440 A Copper rails 30 x 5 mm			
1 m	1	ZX409	2CPX061409R9999
2 m	1	ZX410	2CPX061410R9999
3 m	1	ZX411	2CPX061411R9999
4 m	1	ZX353	2CPX061353R9999
Rated current (I_n) 500 A Copper rails 20 x 10 mm			
1 m	1	ZX362	2CPX061362R9999
2 m	1	ZX363	2CPX061363R9999
3 m	1	ZX364	2CPX061364R9999
4 m	1	ZX355	2CPX061355R9999
Rated current (I_n) 630 A Copper rails 30 x 10 mm			
1 m	1	ZX412	2CPX061412R9999
2 m	1	ZX413	2CPX061413R9999
3 m	1	ZX414	2CPX061414R9999
4 m	1	ZX356	2CPX061356R9999
Rated current (I_n) 850 A Copper rails 40 x 10 mm			
1 m	1	ZX415	2CPX061415R9999
2 m	1	ZX416	2CPX061416R9999
3 m	1	ZX417	2CPX061417R9999
4 m	1	ZX357	2CPX061357R9999

Interior expansion system parts

Busbar brackets and accessories



ZB5



ZX147



ZX146



ZX172



ZX157



ZX151



ZX158



ZX520



ZX523

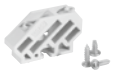


ZX563

Article	Use for...	Unit	Type	Order code
Busbar bracket 5-pole Busbar center distance 40 mm For copper rails 12 x 5 mm, 12 x 10 mm and 20 x 5 mm	M(B)H...50 M(B)S...24	1	ZB5	2CPX038459R9999
		10	ZB5P10	2CPX062556R9999
Busbar bracket 1-pole Busbar center distance 60 mm For copper rails 12 x 5 mm to 30 x 10 mm For adding in a row on ZX146	-	1	ZX147	2CPX044011R9999
		10	ZX147P10	2CPX062719R9999
Busbar bracket 3-pole Busbar center distance 60 mm For copper rails 12 x 5 mm to 30 x 10 mm	M(B)R...02(B) M(B)R...H M(B)R...03	1	ZX146	2CPX044010R9999
		10	ZX146P10	2CPX062718R9999
End cover For busbar carrier ZX146/ZB5	M(B)H...50 M(B)R...02(B) M(B)S...24	1	ZX172	2CPX060232R9999
		10	ZX172P10	2CPX062724R9999
N/PE busbar carrier For copper rails 12 x 5 mm to 30 x 5 mm And 12 x 10 mm to 20 x 10 mm For adding in a row on ZX151	-	1	ZX157	2CPX044009R9999
		10	ZX157P10	2CPX062722R9999
Busbar bracket 3-pole Busbar center distance 60 mm For copper rails 12 x 5 mm to 30 x 10 mm	M(B)S...27	1	ZX151	2CPX044006R9999
		10	ZX151P10	2CPX062721R9999
End cover For busbar carrier ZX151	2CPX068735R9999	1	ZX158	2CPX060208R9999
		10	ZX158P10	2CPX062723R9999
Busbar bracket 3-pole				
Busbar center distance 60 mm/100 mm For copper rails 30 x 10 mm to 60 x 10 mm	M(B)L...52(B) M(B)S...31	1	ZX520	2CPX067861R9999
		10	ZX520P10	2CPX062552R9999
Busbar center distance 100 mm/ 185 mm For copper rails 30 x 10 mm to 100 x 10 mm	M(B)L...00(B) ML...B	1	ZX522	2CPX067909R9999
		10	ZX522P10	2CPX062553R9999
Busbar bracket 3-/4-pole Busbar center distance 185 mm For copper rails 40 x 10 mm	M(B)L25 M(B)L35	1	ZX523	2CPX068553R9999
N/PE busbar carrier For copper rails30 x 10 mm up to 50 x 10 mm	-	1	ZX563	2CPX068735R9999
		10	ZX563P10	2CPX068736R9999

Interior expansion system parts

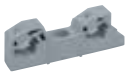
Busbar brackets and accessories



ZX518



ZX519



ZX149



ZB19



ZX50

Article	Use for...	Unit	Type	Order code
N/PE busbar carrier For copper rails 12 x 5 mm, 20 x 5 mm and 30 x 5 mm	M(B)N...69 M(B)N...74 M(B)N...75 M(B)S...28	1	ZX518	2CPX067805R9999
		10	ZX518P10	2CPX062551R9999
End cover For busbar carrier ZX518	M(B)N...74 M(B)N...75	1	ZX519	2CPX062687R9999
		10	ZX519P10	2CPX062686R9999
N/PE busbar carrier For copper rails 12 x 5 mm to 30 x 10 mm	M(B)N...62 M(B)N...63	1	ZX149	2CPX044019R9999
		10	ZX149P10	2CPX062720R9999
Cover profile for latching For copper rails 12 x 5 mm and 12 x 10 mm Length 1 m	-	1	ZB19	2CPX038187R9999
	-	10	ZB19P10	2CPX062709R9999
Support insulators with wrench flat Diameter x length				
30 x 30 mm, thread on both sides: M6 Wrench size: 30 mm	-	1	ZX50	2CPX039050R9999
		20	ZX50P20	2CPX062725R9999
30 x 30 mm, thread on both sides: M8 Wrench size: 30 mm	-	1	ZX51	2CPX039051R9999
		20	ZX51P20	2CPX062726R9999
40 x 40 mm, thread on both sides: M10 Wrench size: 40 mm	-	1	ZX52	2CPX039052R9999
		20	ZX52P20	2CPX062560R9999
50 x 60 mm, thread on both sides: M12 Wrench size: 50 mm	-	1	ZX53	2CPX039053R9999
		20	ZX53P20	2CPX062559R9999
40 x 50 mm, thread on one side: M12 Threaded bolts on one side: M12 x 65 mm	-	1	ZX54	2CPX039054R9999
		20	ZX54P20	2CPX062727R9999

Interior expansion system parts

Attachment material



ZW62



ZX256P10



ZX230P10



ZB70



ZW99

Article	Unit	Type	Order code
Inlay nuts for WR profile M 8	1	ZW62	2CPX039462R9999
	50	ZW62P50	2CPX062479R9999
Inlay nut for profile rails, profile no. 1 and 2 L x W x D in mm			
20 x 11 x 4, M5	10	ZX256P10	2CPX062515R9999
20 x 14 x 4, M5	10	ZX248P10	2CPX062509R9999
20 x 14 x 4, M6	10	ZX249P10	2CPX062510R9999
20 x 14 x 4, M8	10	ZX250P10	2CPX062511R9999
Slide nut for profile rails, profile no. 1 and 2 L x W x D in mm			
20 x 20 x 4, M3	10	ZX226P10	2CPX062494R9999
20 x 20 x 4, M4	10	ZX227P10	2CPX062495R9999
20 x 20 x 4, M5	10	ZX228P10	2CPX062496R9999
20 x 20 x 4, M6	10	ZX229P10	2CPX062497R9999
20 x 20 x 4, M8	10	ZX230P10	2CPX062498R9999
Slide nut for profile rails, for profile no. 3 L x W x D in mm			
25 x 25 x 8, M5	10	ZX235P10	2CPX062639R9999
25 x 25 x 6, M6	10	ZX231P10	2CPX062499R9999
25 x 25 x 8, M8	10	ZX232P10	2CPX062500R9999
25 x 25 x 8, M10	10	ZX233P10	2CPX062501R9999
25 x 25 x 8, M12	10	ZX234P10	2CPX062502R9999
Plastic spacer pieces For high or low installation of fastening parts			
Yard goods, length 1 m	1	ZB70	2CPX038570R9999
Vibration damper For vibration-free installation of mounting plates and devices			
M6 external thread and M 6 internal thread	1	ZW98	2CPX060124R9999
M10 internal thread	1	ZW99	2CPX060125R9999

Interior expansion system parts

Attachment material


ZB21P4


ZB36P20


ZB37P20


ZB22P20


ZB32P4


ZB27P20


ZX273P4


ZX910P10


ZX260P10


ZX263P10


ZX258P10


ZX270P10


ZX283P10

Article	Unit	Type	Order code
Lens screw with cross-slot Pozidriv PZ2, M5 x 8 mm	4	ZB21P4	2CPX062663R9999
	20	ZB21P20	2CPX068585R9999
Lens screw with cross-slot and slot Pozidriv PZ2, M5 x 12 mm	20	ZB36P20	2CPX062390R9999
Lens screw with hexalobular socket and slit M5 x 12 mm/Torx T25	20	ZB37P20	2CPX060202R9999
Cylinder head screw with slit M5 x 20 mm	20	ZB22P20	2CPX068586R9999
Lens-tapping screw with hexalobular socket and slit Torx T25			
M4.8 x 9.5 mm	4	ZB32P4	2CPX064149R9999
	20	ZB32P20	2CPX062651R9999
	500	ZB32P500	2CPX062652R9999
M4.8 x 11.5 mm	20	ZB27P20	2CPX062588R9999
	500	ZB27P500	2CPX062689R9999
M4.8 x 32 mm	4	ZX273P4	2CPX064153R9999
Flat head screws with hexalobular socket			
M6 x 20 mm/Torx T30	10	ZX910P10	2CPX060203R9999
M6 x 30 mm/Torx T30	10	ZX912P10	2CPX060204R9999
M6 x 45 mm/Torx T30	10	ZX915P10	2CPX060205R9999
Cylinder head screw with hexalobular socket			
M5 x 10 mm	10	ZX260P10	2CPX062517R9999
M6 x 20 mm	10	ZX261P10	2CPX062518R9999
M6 x 30 mm	20	ZX257P20	2CPX068588R9999
M6 x 45 mm	20	ZX259P20	2CPX068589R9999
Cylinder head screw with hexalobular socket			
M8 x 16 mm	10	ZX263P10	2CPX062520R9999
M8 x 20 mm	10	ZX264P10	2CPX062521R9999
M8 x 30 mm	10	ZX265P10	2CPX062522R9999
Cylinder head screw with hexalobular socket and captive spring washer M6 x 12 mm	10	ZX258P10	2CPX062516R9999
Cylinder head screw with hexalobular socket, thread-forming For hole diameter 5.5 mm M6 x 20	10	ZX270P10	2CPX062527R9999
Washer 6 mm	10	ZX283P10	2CPX060281R9999

Interior expansion system parts

Covers for rail-mounted devices, row spacing 125 mm



AS11



AS12



AS13



AS14



AS15



AS21



AS22



AS23

Article	Unit	Type	Order code
Cover 1-field width, with 90° press-and-turn lock			
Height x width			
150 x 250 mm without slit	1	AG11	2CPX062801R9999
150 x 250 mm with slit	1	AS11	2CPX062802R9999
300 x 250 mm without slit	1	AG12	2CPX062803R9999
300 x 250 mm with slit	1	AS12	2CPX062804R9999
450 x 250 mm without slit	1	AG13	2CPX062805R9999
450 x 250 mm with slit	1	AS13	2CPX062806R9999
600 x 250 mm without slit	1	AG14	2CPX062807R9999
600 x 250 mm with slit	1	AS14	2CPX062808R9999
750 x 250 mm without slit	1	AG15	2CPX062809R9999
750 x 250 mm with slit	1	AS15	2CPX062810R9999
Cover 2-field width, with 90° press-and-turn lock			
Height x width			
150 x 500 mm without slit	1	AG21	2CPX062811R9999
150 x 500 mm with slit	1	AS21	2CPX062812R9999
300 x 500 mm without slit	1	AG22	2CPX062813R9999
300 x 500 mm with slit	1	AS22	2CPX062814R9999
450 x 500 mm without slit	1	AG23	2CPX062815R9999
450 x 500 mm with slit	1	AS23	2CPX062816R9999

Interior expansion system parts

Covers for rail-mounted devices, row spacing 125 mm



AS24



AS25



AS31



AS32



AS33



AS34



AS35

Article	Unit	Type	Order code
Cover 2-field width, with 90° press-and-turn lock			
Height x width			
600 x 500 mm without slit	1	AG24	2CPX062817R9999
600 x 500 mm with slit	1	AS24	2CPX062818R9999
750 x 500 mm without slit	1	AG25	2CPX062819R9999
750 x 500 mm with slit	1	AS25	2CPX062820R9999
Cover 3-field width, with 90° press-and-turn lock			
Height x width			
150 x 750 mm without slit	1	AG31	2CPX062821R9999
150 x 750 mm with slit	1	AS31	2CPX062822R9999
300 x 750 mm without slit	1	AG32	2CPX062823R9999
300 x 750 mm with slit	1	AS32	2CPX062824R9999
450 x 750 mm without slit	1	AG33	2CPX062825R9999
450 x 750 mm with slit	1	AS33	2CPX062826R9999
600 x 750 mm without slit	1	AG34	2CPX062827R9999
600 x 750 mm with slit	1	AS34	2CPX062828R9999
750 x 750 mm without slit	1	AG35	2CPX062829R9999
750 x 750 mm with slit	1	AS35	2CPX062830R9999

Interior expansion system parts

Covers for rail-mounted devices, row spacing 150 mm



AH1



AS11



AS212



AS213



AS214



AS215

AH2



AS21



AS222



AS223

Article	Unit	Type	Order code
Cover 1-field width, with 90° press-and-turn lock			
Height x width			
75 x 250 mm without slit	1	AH1	2CPX070387R9999
150 x 250 mm without slit	1	AG11	2CPX062801R9999
150 x 250 mm with slit	1	AS11	2CPX062802R9999
300 x 250 mm without slit	1	AG212	2CPX062831R9999
300 x 250 mm with slit	1	AS212	2CPX062832R9999
450 x 250 mm without slit	1	AG213	2CPX062833R9999
450 x 250 mm with slit	1	AS213	2CPX062834R9999
600 x 250 mm without slit	1	AG214	2CPX062835R9999
600 x 250 mm with slit	1	AS214	2CPX062836R9999
750 x 250 mm without slit	1	AG215	2CPX062837R9999
750 x 250 mm with slit	1	AS215	2CPX062838R9999
Cover 2-field width, with 90° press-and-turn lock			
Height x width			
75 x 500 mm without slit	1	AH2	2CPX070388R9999
150 x 500 mm without slit	1	AG21	2CPX062811R9999
150 x 500 mm with slit	1	AS21	2CPX062812R9999
300 x 500 mm without slit	1	AG222	2CPX062839R9999
300 x 500 mm with slit	1	AS222	2CPX062840R9999
450 x 500 mm without slit	1	AG223	2CPX062841R9999
450 x 500 mm with slit	1	AS223	2CPX062842R9999

Interior expansion system parts

Covers for rail-mounted devices, row spacing 150 mm



AS224



AS225



AS31



AS232



AS233



AS234



AS235

Article	Unit	Type	Order code
Cover 2-field width, with 90° press-and-turn lock			
Height x width			
600 x 500 mm without slit	1	AG224	2CPX062843R9999
600 x 500 mm with slit	1	AS224	2CPX062844R9999
750 x 500 mm without slit	1	AG225	2CPX062845R9999
750 x 500 mm with slit	1	AS225	2CPX062846R9999
Cover 3-field width, with 90° press-and-turn lock			
Height x width			
150 x 750 mm without slit	1	AG31	2CPX062821R9999
150 x 750 mm with slit	1	AS31	2CPX062822R9999
300 x 750 mm without slit	1	AG232	2CPX062847R9999
300 x 750 mm with slit	1	AS232	2CPX062848R9999
450 x 750 mm without slit	1	AG233	2CPX062849R9999
450 x 750 mm with slit	1	AS233	2CPX062850R9999
600 x 750 mm without slit	1	AG234	2CPX062851R9999
600 x 750 mm with slit	1	AS234	2CPX062852R9999
750 x 750 mm without slit	1	AG235	2CPX062853R9999
750 x 750 mm with slit	1	AS235	2CPX062854R9999

Interior expansion system parts

Covers, 1-field width with cutout


AG71


AG65


AG73


AG72


AG173


AG161


AG174


AG200

Article	Use for...	Unit	Type	Order code
Cover , 1-field width, with 90° press-and-turn lock				
Height x width				
300 x 250 mm, with cutout For 1 x NH-fuse switch disconnector NH00	M(B)T135(B)	1	AG71	2CPX062873R9999
300 x 250 mm, with cutout For 2 x NH-fuse switch disconnector NH00	M(B)T136(B)	1	AG65	2CPX062870R9999
600 x 250 mm, with cutout For 4 x NH-fuse switch disconnector NH00	M(B)T137(B)	1	AG73	2CPX062875R9999
450 x 250 mm, with cutout For 1 x NH-fuse switch disconnector NH1	M(B)T142(B)	1	AG72	2CPX062874R9999
750 x 250 mm, with cutout For 2 x NH-fuse switch disconnector NH1	M(B)T143(B)	1	AG173	2CPX062899R9999
450 x 250 mm, with cutout For 1 x NH-fuse switch disconnector NH2	M(B)T144(B)	1	AG161	2CPX062887R9999
750 x 250 mm, with cutout For 2 x NH-fuse switch disconnector NH2	M(B)T145(B)	1	AG174	2CPX062900R9999
300 x 250 mm, with cutout				
For OT-circuit OT160M3	MA160ALAB	1	AG200	2CPX062931R9999
For OT-circuit OT200E03P, OT250E03P	MA200ALAB MA250ALAB	1	AG201	2CPX062932R9999

Interior expansion system parts

Covers, 1-field width with cutout


AG205


AG208


AG206


AG207


AG1304


AG127


AG175


AG160


AG121


AG131

Article	Use for...	Unit	Type	Order code
Cover , 1-field width, with 90° press-and-turn lock				
Height x width				
300 x 250 mm, with cutout For Tmax circuit XT1, XT3	M(B)A190T	1	AG205	2CPX062936R9999
300 x 250 mm, with cutout				
For Tmax circuit XT1	MA100ALXB MA160ALXB	1	AG208	2CPX062993R9999
For Tmax circuit XT3	MA200ALXB MA250ALXB	1	AG209	2CPX062994R9999
300 x 250 mm, with cutout For Tmax circuit XT2	M(B)A191T	1	AG206	2CPX062855R9999
450 x 250 mm, with cutout For Tmax circuit XT4	M(B)A193T	1	AG207	2CPX062856R9999
450 x 250 mm, with cutout For Tmax circuitT4, 3-pole For Tmax circuit T5 (400), 3-pole	M(B)A192T	1	AG1304	2CPX064157R9999
300 x 250 mm, with cutout				
For S700	M(B)H150	1	AG127	2CPX062986R9999
For S750	M(B)H151	1	AG128	2CPX062989R9999
150 x 250 mm, with cutout For protective hose	M(B)V180 M(B)V181 M(B)V182	1	AG175	2CPX062901R9999
300 x 250 mm, with cutout For bus-mounting fuse socket 5 x 3 x D02	M(B)R102(B)	1	AG160	2CPX062886R9999
300 x 250 mm, with cutout For bus-mounting fuse socket Space for horizontal installation devices 134 mm	M(B)R102H	1	AG121	2CPX062969R9999
450 x 250 mm, with cutout For bus-mounting fuse socket Space for horizontal installation devices 295 mm	M(B)R103H	1	AG131	2CPX062970R9999

Interior expansion system parts

Covers, 1-field width with cutout/with viewing window



AG132



AG164



AG165



AG240



AG243



AG246



AG12S

Article	Use for...	Unit	Type	Order code
Cover , 1-field width, with 90° press-and-turn lock				
Height x width				
150 x 250 mm, with cutout For measuring devices, 96 x 96 mm	M(B)U156	1	AG132	2CPX062992R9999
300 x 250 mm, with cutout For measuring devices, 96 x 96 mm	M(B)U157	1	AG164	2CPX062890R9999
450 x 250 mm, with cutout For measuring devices, 96 x 96 mm	M(B)U158	1	AG165	2CPX062891R9999
450 x 250 mm, with cutout For 3 x NH-fuse switch disconnector NH00 100 mm busbar center distance	MD152B	1	AG240	2CPX042127R9999
750 x 250 mm, with cutout For 4 x NH-fuse switch disconnector NH00 185 mm busbar center distance	MD100B	1	AG243	2CPX042187R9999
900 x 250 mm, with cutout For 4 x NH-fuse switch disconnector NH00 + EFM 185 mm busbar center distance	MBD100E	1	AG246	2CPX042190R9999
Covers with viewing window 1-field width, with 90° press-and-turn lock				
300 x 250 mm, with viewing window	-	1	AG12S	2CPX062228R9999
450 x 250 mm, with viewing window	-	1	AG13S	2CPX062230R9999
600 x 250 mm, with viewing window	-	1	AG14S	2CPX062232R9999

Interior expansion system parts

Covers, 2-field width with cutout


AG75


AG79


AG82


AG83


AG92


AG66


AG259


AG1404


AG227

Article	Use for...	Unit	Type	Order code
Covers, 2-field width, with 90° press-and-turn lock				
Height x width				
300 x 500 mm, with cutout For 4 x NH-fuse switch disconnector NH00	M(B)T236(B)	1	AG75	2CPX062876R9999
600 x 500 mm, with cutout For 8 x NH-fuse switch disconnector NH00	M(B)T237(B)	1	AG79	2CPX062877R9999
450 x 500 mm, with cutout For 2 x NH-fuse switch disconnector NH1	M(B)T242(B)	1	AG82	2CPX062878R9999
750 x 500 mm, with cutout For 4 x NH-fuse switch disconnector NH1	M(B)T243(B)	1	AG83	2CPX062879R9999
450 x 500 mm, with cutout For 2 x NH-fuse switch disconnector NH2	M(B)T244(B)	1	AG92	2CPX062884R9999
750 x 500 mm, with cutout For 4 x NH-fuse switch disconnector NH2	M(B)T245(B)	1	AG66	2CPX062871R9999
300 x 500 mm, with cutout For Tmax circuit XT1, XT3	M(B)A290T	1	AG259	2CPX062979R9999
450 x 500 mm, with cutout				
For Tmax circuit T4/T5, 3 and 4-pole	M(B)A292T	1	AG1404	2CPX064158R9999
For Tmax circuit T5	MA400ALSB MA630ALSB	1	AG198	2CPX062929R9999
300 x 500 mm, with cutout				
For S700	M(B)H250	1	AG227	2CPX062987R9999
For S750	M(B)H251	1	AG228	2CPX062990R9999

Interior expansion system parts

Covers, 2-field width with cutout



AG176



AG172



AG162



AG241



AG244



AG247



AG179



AG22S

Article	Use for...	Unit	Type	Order code
Covers, 2-field width, with 90° press-and-turn lock Height x width				
150 x 500 mm, with cutout For protective hose	M(B)V281 M(B)V282	1	AG176	2CPX062902R9999
300 x 500 mm, with cutout For bus-mounting fuse socket 14 x 3 x D02	M(B)R202(B)	1	AG172	2CPX062898R9999
150 x 500 mm, with cutout For measuring devices, 96 x 96 mm	M(B)U257	1	AG162	2CPX062888R9999
450 x 500 mm, with cutout For 6 x NH-fuse switch disconnector NH00 100 busbar center distance	MD252B	1	AG241	2CPX042128R9999
750 x 500 mm, with cutout For 8 x NH-fuse switch disconnector NH00	MD200B	1	AG244	2CPX042188R9999
For load break switches with fuse, ABB SlimLine XR Cutout 300 mm width 185 busbar center distance	-	1	AG177	2CPX062903R9999
900 x 500 mm, with cutout For 8 x NH-fuse switch disconnection rails NH00 + EFM 185 mm busbar center distance	MBD200E	1	AG247	2CPX042191R9999
750 x 500 mm, with cutout For 4 x NH-fuse switch disconnection rail NH1-3	MD21B MD22B	1	AG244	2CPX042188R9999
750 x 500 mm, with cutout For load break switches with fuse, ABB SlimLine XR Cutout 400 mm width	-	1	AG179	2CPX062905R9999
Covers with viewing window, 2-field width, with 90° press-and-turn lock				
300 x 500 mm, with viewing window	-	1	AG22S	2CPX062229R9999
450 x 500 mm, with viewing window	-	1	AG23S	2CPX062231R9999
600 x 500 mm, with viewing window	-	1	AG24S	2CPX062233R9999

Interior expansion system parts

Covers, 2-field width with cutout

Article		Use for...	Unit	Type	Order code
	Covers, 2-field width, with 90° press-and-turn lock Height x Width				
 AG208X	**600 x 500, with cutout** For XT5	MX208LX	1	AG208X	2CPX062995R9999
 AG208XB	**600 x 500, with cutout** For XT5 RC bottom	MX208LXB	1	AG208XB	2CPX062996R9999
 AG210X	**600 x 500, with cutout** For XT6	MX210LX	1	AG210X	2CPX062998R9999
 AG212X	**600 x 500, with cutout** For XT7	MX212LX	1	AG212X	2CPX062999R9999
 AG208XAL	**600 x 500, with cutout** For OT630-800, lever left	MX208LAL	1	AG208XAL	2CPX063189R9999
 AG208XAM	**600 x 500, with cutout** For OT630-800, lever middle	MX208LAM	1	AG208XAM	2CPX063190R9999

Interior expansion system parts

Covers, 3-field width with cutout



AG84



AG85



AG90



AG91



AG93



AG67



AG359



AG327

Article	Use for...	Unit	Type	Order code
Covers with cutout 3-field width, with 90° press-and-turn lock Height x width				
300 x 750 mm, with cutout For 6 x NH-fuse switch disconnectors Gr. 00	M(B)T336(B)	1	AG84	2CPX062880R9999
600 x 750 mm, with cutout For 12 x NH-fuse switch disconnectors Gr. 00	M(B)T337(B)	1	AG85	2CPX062881R9999
450 x 750 mm, with cutout For 3 x NH-fuse switch disconnectors Gr. 1	M(B)T342B	1	AG90	2CPX062882R9999
750 x 750 mm, with cutout For 6 x NH-fuse switch disconnectors Gr. 1	M(B)T343(B)	1	AG91	2CPX062883R9999
450 x 750 mm, with cutout For 3 x NH-fuse switch disconnectors Gr. 2	M(B)T344(B)	1	AG93	2CPX062885R9999
750 x 750 mm, with cutout For 6 x NH-fuse switch disconnectors Gr. 2	M(B)T345(B)	1	AG67	2CPX062872R9999
300 x 750 mm, with cutout For Tmax circuit XT1, XT3	M(B)A390T	1	AG359	2CPX062980R9999
300 x 750 mm, with cutout				
For S700	M(B)H350	1	AG327	2CPX062988R9999
For S750	M(B)H351	1	AG328	2CPX062991R9999

Interior expansion system parts

Covers, 3-field width with cutout



AG321



AG163



AG242



AG245



AG180



AG248



AG310XAL



AG310XAM



AG308XU

Article	Use for...	Unit	Type	Order code
Covers with cutout, 3-field width, with 90° press-and-turn lock Height x width				
300 x 750 mm, with cutout For bus-mounting fuse socket 24 x 3 x D02	M(B)R302(B)	1	AG321	2CPX062971R9999
150 x 750 mm, with cutout For measuring devices, 96 x 96 mm	M(B)U357	1	AG163	2CPX062889R9999
450 x 750 mm, with cutout For 12 x NH-fuse switch disconnection rails, 100 mm busbar center distance	MD352B	1	AG242	2CPX042129R9999
750 x 750 mm, with cutout For 12 x NH-fuse switch disconnection rails, 185 mm busbar center distance	MD300B	1	AG245	2CPX042189R9999
750 x 750 mm, with cutout For load break switches with fuse, ABB SlimLine XR Cutout 2 x 250 mm width 185 mm busbar center distance	-	1	AG178	2CPX062904R9999
750 x 750 mm, with cutout For load break switches with fuse, ABB SlimLine XR Cutout 600 mm width	-	1	AG180	2CPX062906R9999
900 x 750 mm, with cutout For 12 x NH-fuse switch disconnection rails NH00 + EFM 185 mm busbar center distance	MBD300E	1	AG248	2CPX042192R9999
600 x 750, with cutout For OT1000-1250, lever left	MX310LAL	1	AG310XAL	2CPX063191R9999
600 x 750, with cutout For OT1000-1250, lever middle	MX310LAM	1	AG310XAM	2CPX063192R9999
600 x 750, with cutout For ATS500-800	MX308LU	1	AG308XU	2CPX063193R9999

Interior expansion system parts

Cover parts



ED137P4



ED138P4



ED139P4



ED135P4



ED110



ED58P10



ED50P12



ED136P4



ED41P4



ZB35P5

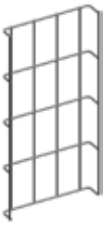
Article	Use for...	Unit	Type	Order code
Cover bracket 45 mm tall For fastening (inserting, turning) on EDF profile rails as well as latching a bulkhead; For DIN rails 35 x 7.5 mm, only use this cover bracket	M(B)R...03	4	ED137P4	2CPX062600R9999
		40	ED137P40	2CPX062601R9999
Cover bracket 52.5 mm tall For fastening (inserting, turning) on EDF and WR profile rails, as well as for latching a partition wall, for DIN rails, 35 x 15 mm, only use this cover bracket	All modules	4	ED138P4	2CPX062630R9999
		12	ED138P12	2CPX062602R9999
		40	ED138P40	2CPX062603R9999
		1600	ED138P1600	2CPX062702R9999
Cover bracket 88 mm tall For fastening (inserting, turning) on EDF and WR profile rails, as well as for latching a partition wall; to be used when installing devices at greater depths or with busbar systems		4	ED139P4	2CPX062604R9999
		40	ED139P40	2CPX062734R9999
Spacer piece To extend the cover holder by 25 mm	M(B)R...03	4	ED135P4	2CPX062610R9999
		40	ED135P40	2CPX062733R9999
Cover bracket 1 set left / right		1	ED110	2CPX039320R9999
DIN rails adapter For cover brackets ED138 and ED139 to be snapped onto the DIN rail from the front		10	ED58P10	2CPX062338R9999
90 degree press-and-turn lock	All covers	12	ED50P12	2CPX062337R9999
Screw insert Fr metric thread, M5, for mounting macrolon, sheet metal or aluminum plates on the EDF cover brackets		4	ED136P4	2CPX062611R9999
90 degree press-and-turn lock For mounting macrolon, sheet metal or aluminum plates on the cover brackets		4	ED41P4	2CPX062332R9999
Sealing nipple for subsequent installation in standard field covers (6 mm hole must be drilled)		5	ZB35P5	2CPX062392R9999

Interior expansion system parts

SMISSLINE TP system parts accessories



ZW430



ZW436



ZW470



ZW257



ZW359



ZW590



ZW592



ED73



ED52



ZX399

Article	To be used for...	Unit	Type	Order code
Cable laying grids width 100 mm Length				
450 mm	M(B)C103VS	1	ZW430	2CPX042170R9999
600 mm	M(B)C104VS	1	ZW431	2CPX042171R9999
750 mm	M(B)C105VS	1	ZW432	2CPX042172R9999
900 mm	-	1	ZW433	2CPX042173R9999
1050 mm	-	1	ZW434	2CPX042174R9999
2000 mm	-	1	ZW435	2CPX042175R9999
Cable laying grids width 200 mm Length				
450 mm	M(B)C203VS	1	ZW436	2CPX042176R9999
600 mm	M(B)C204VS	1	ZW437	2CPX042177R9999
750 mm	M(B)C205VS	1	ZW438	2CPX042178R9999
900 mm	-	1	ZW439	2CPX042179R9999
1050 mm	-	1	ZW440	2CPX042180R9999
2000 mm	-	1	ZW441	2CPX042181R9999
3000 mm	-	1	ZW460	2CPX073256R9999
Cable laying grids width 300 mm Length				
3000 mm	-	1	ZW470	2CPX073257R9999
Mounting brackets for cable laying grids For min. cabinet depths of 275 mm	For SMISSLINE TP 125 A			
1 panel wide	M(B)C1...VS	1	ZW257	2CPX042182R9999
2 panel wide	M(B)C2...VS	1	ZW258	2CPX042183R9999
3 panel wide	M(B)C3...VS	1	ZW359	2CPX042912R9999
Mounting brackets for cable laying grids For min. cabinet depths of 275 mm	For SMISSLINE TP 250 A			
1 panel wide	M(B)C1...VS	1	ZW590	2CPX042922R9999
2 panel wide	M(B)C2...VS	1	ZW591	2CPX042923R9999
3 panel wide	M(B)C3...VS	1	ZW592	2CPX042924R9999
DIN rails vertical For a module height of				
450 mm	M(B)C...03VS	1	ED73	2CPX042184R9999
600 mm	M(B)C...04VS	1	ED74	2CPX042185R9999
750 mm	M(B)C...05VS	1	ED75	2CPX042186R9999
DIN rails horizontal mounting				
2 panel wide	M(B)C2...HS	1	ED52	2CPX039252R9999
3 panel wide	M(B)C3...HS	1	ED53	2CPX039253R9999
Fixing brackets for horizontal DIN rails				
1 set left / right	M(B)C...HS	1	ZX399	2CPX062669R9999

Interior expansion system parts

SMISSLINE TP cover parts accessories



AS22H

Article	To be used for...	Unit	Type	Order code
Plastic cover horizontal with device slot, 2 panel wide				
300 x 500 mm	M(B)C202HS	1	AS22H	2CPX062764R9999
450 x 500 mm	M(B)C203HS	1	AS23H	2CPX062765R9999
600 x 500 mm	M(B)C204HS	1	AS24H	2CPX062766R9999
750 x 500 mm	M(B)C205HS	1	AS25H	2CPX062767R9999



AS32H

Article	To be used for...	Unit	Type	Order code
Plastic cover horizontal with device slot, 3 panel wide				
300 x 750 mm	M(B)C302HS	1	AS32H	2CPX062768R9999
450 x 750 mm	M(B)C303HS	1	AS33H	2CPX062769R9999
600 x 750 mm	M(B)C304HS	1	AS34H	2CPX062770R9999
750 x 750 mm	M(B)C305HS	1	AS35H	2CPX062771R9999

Plastic cover vertical



AS13V

Plastic cover vertical with device slot, 1 panel wide				
450 x 500 mm	M(B)C103VS	1	AS13V	2CPX062772R9999
600 x 500 mm	M(B)C104VS	1	AS14V	2CPX062773R9999
750 x 500 mm	M(B)C105VS	1	AS15V	2CPX062774R9999



AS23V

Plastic cover vertical with device slot, 2 panel wide				
450 x 500 mm	M(B)C203VS	1	AS23V	2CPX062775R9999
600 x 500 mm	M(B)C204VS	1	AS24V	2CPX062776R9999
750 x 500 mm	M(B)C205VS	1	AS25V	2CPX062777R9999



AS35V

Plastic cover vertical with device slot, 3 panel wide				
750 x 750 mm	M(B)C305VS	1	AS35V	2CPX062796R9999

Interior expansion system parts

Extension frame/safety terminal cover



ED212

Article	Use for...	Unit	Type	Order code
Extension frame for covers For fields with cover brackets 52.5 mm (ED138, etc.), plastic frame to pre-set the cover by 25 or 35 mm External dimensions in mm				
1-field width				
300 x 250	AG12	1	ED212	2CPX062782R9999
450 x 250	AG13	1	ED213	2CPX062783R9999
600 x 250	AG14	1	ED214	2CPX062784R9999
750 x 250	AG15	1	ED215	2CPX062785R9999
2-field width				
300 x 500	AG22	1	ED222	2CPX062787R9999
450 x 500	AG23	1	ED223	2CPX062788R9999
600 x 500	AG24	1	ED224	2CPX062789R9999
750 x 500	AG25	1	ED225	2CPX062790R9999
3-field width				
300 x 750	AG32	1	ED232	2CPX062792R9999
450 x 750	AG33	1	ED233	2CPX062793R9999
600 x 750	AG34	1	ED234	2CPX062794R9999
750 x 750	AG35	1	ED235	2CPX062795R9999

The following is also required per frame:
for 25 mm, increase 1 x ED135P4
for 35 mm, increase 1 x ED139P4

Interior expansion system parts

Busbar systems for NH-fuse switch disconnector

Size NH..	Rated current I_n	Copper rail in mm	Terminal	Load break switch St.	Use for...	Unit	Type	Order code
Busbar systems with access line, line cross-section 35 mm², Line length 500 mm								
NH00	320 A	20 x 5	M8	4	-	1	ZH55	2CPX038559R9999
Busbar systems without access line								
NH00	320 A	20 x 5	M8	2	MT136B	1	ZH214	2CPX060443R9999
NH00	320 A	20 x 5	M8	4	MT236B	1	ZH211	2CPX060440R9999
NH00	320 A	20 x 5	M8	6	MT336B	1	ZH311	2CPX060450R9999
NH00	320 A	20 x 5	M8	4	MT137B	1	ZH216	2CPX060445R9999
NH00	320 A	20 x 5	M8	8	MT237B	1	ZH212	2CPX060441R9999
NH00	320 A	20 x 5	M8	12	MT337B	1	ZH312	2CPX060451R9999
NH1/NH2	440 A	30 x 5	M10	2	MT242B MT244B	1	ZH217	2CPX060446R9999
NH1/NH2	630 A	30 x 10	M10	4	MT243B MT245B	1	ZH218	2CPX060447R9999
NH1/NH2	440 A	30 x 5	M10	3	MT342B MT344B	1	ZH317	2CPX060456R9999
NH1/NH2	630 A	30 x 10	M10	6	MT343B MT345B	1	ZH318	2CPX060457R9999

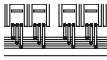
ZH55



ZH214



ZH211



ZH311

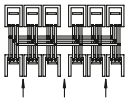


ZH216



ZH212

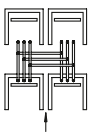
ZH312



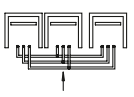
ZH217



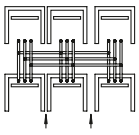
ZH218



ZH317



ZH318



> **Important note:** If arranged in a single row, use 3 straight or 3 angled cable lugs to connect to the supply line. If arranged in two rows, 3 angled cable lugs to connect to the supply line.

Interior expansion system parts

Separator shutters and insulating plates for NH fuse switch disconnectors

ZH425

ZH426

ZH427



ZH428

ZH439



ZH440

ZH447

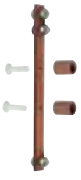
ZH449



ZH442



ZX148



ZH53

Article	Use for...	Unit	Type	Order code
NH00 fuse switch disconnector				
Single shutter	MT135B	1	ZH425	2CPX062952R9999
Double shutter	MT136B MT137B MT236B MT237B	1	ZH426	2CPX062953R9999
Triple shutter	MT336B MT337B	1	ZH427	2CPX062954R9999
Single shutter closed	-	1	ZH428	2CPX062955R9999
Double shutter closed	-	1	ZH429	2CPX062956R9999
Triple shutter closed	-	1	ZH430	2CPX062957R9999
NH1 fuse switch disconnector				
Single shutter	MT...42B MT...43B MT...51B	1	ZH438	2CPX062961R9999
Double shutter	-	1	ZH439	2CPX062962R9999
Single shutter closed	-	1	ZH440	2CPX062963R9999
NH2 fuse switch disconnector				
Single shutter For 1-field width modules	MT144B MT145B	1	ZH447	2CPX039842R9999
Single shutter For 3-field width modules	MT344B MT345B	1	ZH448	2CPX062965R9999
Double shutter	MT244B MT245B MT344B MT345B	1	ZH449	2CPX062966R9999
Single shutter closed	-	1	ZH442	2CPX062939R9999
Insulating plates for non-allocated busbar ends for...				
Fuse switch disconnectors including attachment material				
NH00	-	1	ZX148	2CPX044018R9999
NH1	-	1	ZX128	2CPX039128R9999
NH2	-	1	ZX129	2CPX039129R9999
N/PE rails for attaching behind the disconnector cross-beams for				
NH00 fuse switch disconnector Copper 20 x 4 mm, including attachment material	-	1	ZH53	2CPX038557R9999

Interior expansion system parts

NH fuse switch disconnector



ZH411



ZH412



ZH431



ZH441



ZH414



ZH415

Article	Use for...	Unit	Type	Order code
NH fuse switch disconnector For mounting with EDF and WR mounting frame on disconnector cross-beam				
NH00 fuse switch disconnector Rated current (I_n) max. 160 A, with screw connection M8, without shutter	MT135B MT...36B MT...37B	1	ZH411	2CPX062947R9999
NH00 fuse switch disconnector Rated current (I_n) max. 160 A, with U-clamp terminals up to 50 mm² without shutter	-	1	ZH412	2CPX062948R9999
NH1 fuse switch disconnector Rated current (I_n) max. 250 A, with screw connection M10, without shutter	MT...42B MT...43B	1	ZH431	2CPX062958R9999
NH2 fuse switch disconnector Rated current (I_n) max. 400 A, with screw connection M12, without shutter	MT...44B MT...45B	1	ZH441	2CPX062964R9999
NH fuse switch-disconnector for mounting with EDF mounting frame on busbar systems, copper 12 x 5 mm or copper 12 x 10 mm, busbar distance 40 mm				
NH00 fuse switch disconnector Rated current (I_n) max. 160 A, with U-clamp terminals up to 50 mm² without shutter	ED...TA	1	ZH414	2CPX062950R9999
NH00 fuse switch disconnector Rated current (I_n) max. 160 A, with triple terminals up to 10 mm² without shutter	-	1	ZH415	2CPX062951R9999

Interior expansion system parts

NH fuse switch disconnector



ZE60



ZE61



ZE62



ZA4P10

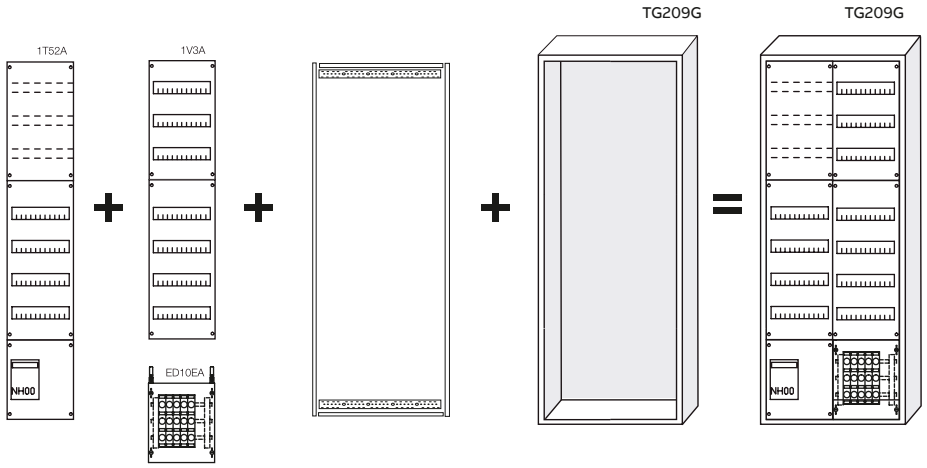
Article	Use for...	Unit	Type	Order code
Neozed bus-mounting fuse socket E18, width 26 mm For gauge ring inserts, 3-pole, with covers and nameplates, with E18 thread, safety fuse max. 63 A		1	ZE60	2CPX061045R9999
		10	ZE60P10	2CPX062400R9999
Diazed bus-mounting fuse socket E27, width 42 mm For gauge ring inserts, 3-pole, with covers and nameplates, with E27 thread, safety fuse max. 25 A		1	ZE61	2CPX061046R9999
Diazed bus-mounting fuse socket E33, width 56 mm For gauge ring inserts, 3-pole, with covers and nameplates, with E33 thread, safety fuse max. 63 A		1	ZE62	2CPX061047R9999
Shutters instead of bus-mounting fuse socket Color similar to RAL 7035, For complying with the contact protection IPXXC		10	ZA4P10	2CPX062374R9999

Interior expansion system with distribution panels/combination sets

Possible applications for wall-mounted and standalone cabinets

Wall-mounted cabinets of the series U, A, B and TwinLine-G, TwinLine-L and TwinLine-W

Example: Expansion with distribution panels/combination sets in the TwinLine-G wall-mounted cabinet

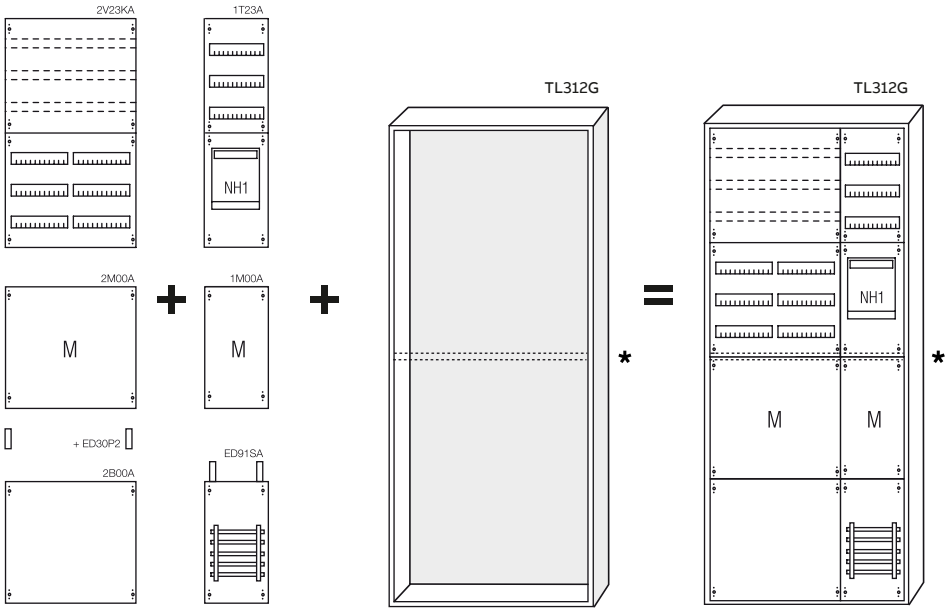


Distribution panel
+ distribution panel and combination kit
+ EDF installation kit
+ empty cabinet
= wall-mounted distributor

Delivery form
EDF installation kit, distribution panels, combination sets (mounted ex works on EDF profile) and empty cabinet are delivered individually packaged.

Standalone cabinets of the series TwinLine H and TwinLine-G, TwinLine-L and TwinLine-W
Series switching cabinets of the series TriLine®, Pro *E* Power system/fire protection housing of the series SF

Example: Expansion with distribution panels/combination sets in the TwinLine- L standalone cabinet



Distribution panels
+ combination sets
+ panel connector
+ empty cabinet
= standalone distributor

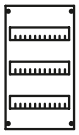
Delivery form
Distribution panels, combination sets (mounted ex works on EDF profile)
Panel connector and empty cabinet are each delivered individually packaged.

* The EDF mounting frame may not exceed a maximum height of 1350 mm (installation height 5) at once. For structural reasons in standalone cabinets (prepared for EDF mounting frame), that is why a central supporting rail is mounted ex works, which can be moved up and down in the grid 150 mm.

+ panel connector ED30P2

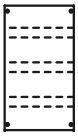
Internal expansion system with distribution panels

Population of the distribution panels



Distribution panels with DIN rails for rail-mounted devices
Equipment: DIN rail 35 x 15 mm for device installation and with hole pattern for the wiring system, row spacing 125 mm, with plastic covers, cutouts for rail-mounted devices DIN 43880 for 12 PLE (216 mm) per field width

> Wire holder and locking strips see page 260



Distribution panels with DIN rails for terminal blocks
Equipment: DIN rail 35 x 15 mm for terminal blocks with hole pattern for the wiring system, row spacing 125 mm, with plastic covers; for a protection-insulated design, use insulators ZK90; To mount the DIN rails to the rear, use ED33 deep angle piece and DIN rails for installation between the mounting frame

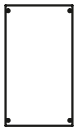
> Insulators page 260
> Deep angle piece page 260



Distribution panels with mounting plates
Equipment: Steel sheet metal mounting plate, Sendzimir galvanized surface, material thickness 2 mm; the mounting plate is mounted on deep angle piece ED33 and can be variably adjusted in depth; maximum installation depth between mounting plate and cover 143 mm, with plastic covers (cover closed)



Distribution panels with mounting cross-beams for device installation without holes
Equipment: For every 150 mm, a mounting cross-beam ZX35 is mounted on ED33 deep angle piece and can be variably adjusted in depth; the maximum installation depth between the cross-beam and cover is 143 mm, with plastic covers (cover closed)



Distribution panels as touch protection (or to expand with assembly parts)
Equipment: Empty panel without installation parts, with plastic covers (covers closed)

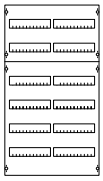


Distribution panels with busbars
Equipment: 5-Pole busbar system copper 12 x 5 mm, busbar spacing 40 mm, with plastic covers (covers closed)

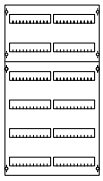
> Busbar connection terminals page 260

Internal expansion system - Distribution panels

Rail-mounted devices



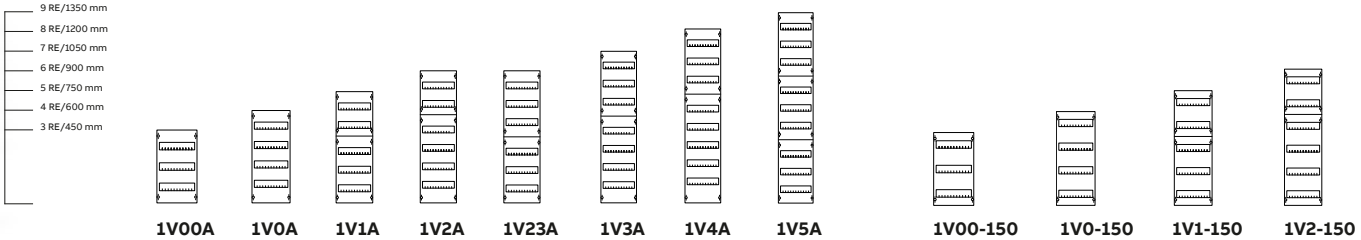
2V2A



2V2-150

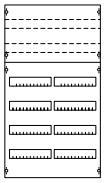
- Expansion with DIN rails 35 x 15 mm
- Distribution panels or field combinations must have the same grid units as the cabinets, in which they are installed
- For standalone and row switching cabinets, two fields or field combinations must be installed one above the other
- Without N/PE quick plug-in terminals
- The EDF profile rails are included in the scope of delivery

Height		Width			Distribution of the covers in mm			From a cabinet depth in mm		
RE	mm	FB	mm	PLE	top	middle	bottom		Type	Order code
Row spacing 125 mm										
3	450	1	250	36	450	-	-	120	1V00A	2CPX037580R9999
		2	500	72	450	-	-	120	2V00A	2CPX037581R9999
4	600	1	250	48	600	-	-	120	1V0A	2CPX037591R9999
		2	500	96	600	-	-	120	2V0A	2CPX037592R9999
5	750	1	250	60	300	-	450	120	1V1A	2CPX037610R9999
		2	500	120	300	-	450	120	2V1A	2CPX037611R9999
6	900	1	250	72	300	-	600	120	1V2A	2CPX037622R9999
		2	500	144	300	-	600	120	2V2A	2CPX037623R9999
6	900	1	250	72	450	-	450	120	1V23A	2CPX037634R9999
		2	500	144	450	-	450	120	2V23A	2CPX037635R9999
7	1050	1	250	84	450	-	600	120	1V3A	2CPX037639R9999
		2	500	168	450	-	600	120	2V3A	2CPX037640R9999
8	1200	1	250	96	450	-	750	120	1V4A	2CPX037651R9999
		2	500	192	450	-	750	120	2V4A	2CPX037652R9999
9	1350	1	250	108	450	450	450	120	1V5A	2CPX037665R9999
		2	500	216	450	450	450	120	2V5A	2CPX037666R9999
Row spacing 150 mm										
3	450	1	250	36	450	-	-	120	1V00-150	2CPX077800R9999
		2	500	72	450	-	-	120	2V00-150	2CPX077801R9999
4	600	1	250	48	600	-	-	120	1V0-150	2CPX077802R9999
		2	500	96	600	-	-	120	2V0-150	2CPX077803R9999
5	750	1	250	60	300	-	450	120	1V1-150	2CPX077804R9999
		2	500	120	300	-	450	120	2V1-150	2CPX077805R9999
6	900	1	250	72	300	-	600	120	1V2-150	2CPX077808R9999
		2	500	144	300	-	600	120	2V2-150	2CPX077809R9999

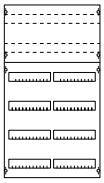


Internal expansion system - Distribution panels

Rail-mounted devices and terminal blocks



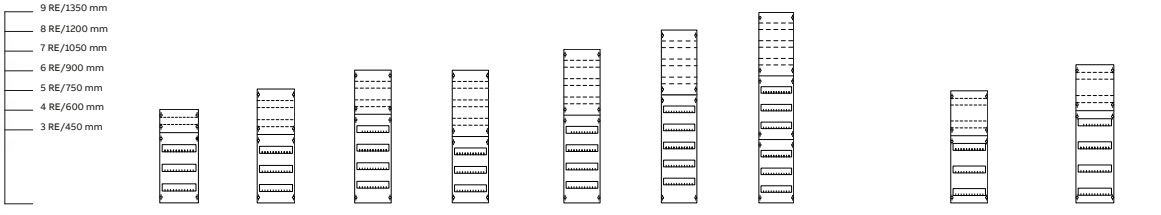
2V2KA



2V2K-150

- DIN rails for terminal blocks directly mounted on the mounting frame
- DIN rails for terminal blocks and rail-mounted devices 35 x 15 mm
- Distribution panels or field combinations must have the same grid units as the cabinets, in which they are installed
- For standalone and row switching cabinets, two fields or field combinations must be installed one above the other
- Without N/PE quick plug-in terminals
- The EDF profile rails are included in the scope of delivery

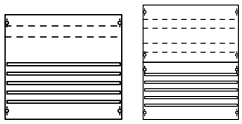
Height		Width			Distribution of the covers in mm			From a cabinet		
RE	mm	FB	mm	PLE	top	middle	bottom	depth in mm	Type	Order code
Row spacing 125 mm										
4	600	1	250	48	150	-	450	120	1V0KA	2CPX037593R9999
		2	500	96	150	-	450	120	2V0KA	2CPX037594R9999
5	750	1	250	60	300	-	450	120	1V1KA	2CPX037612R9999
		2	500	120	300	-	450	120	2V1KA	2CPX037613R9999
6	900	1	250	72	300	-	600	120	1V2KA	2CPX037624R9999
		2	500	144	300	-	600	120	2V2KA	2CPX037625R9999
6	900	1	250	72	450	-	450	120	1V23KA	2CPX037637R9999
		2	500	144	450	-	450	120	2V23KA	2CPX037638R9999
7	1050	1	250	84	450	-	600	120	1V3KA	2CPX037641R9999
		2	500	168	450	-	600	120	2V3KA	2CPX037642R9999
8	1200	1	250	96	450	-	750	120	1V4KA	2CPX037653R9999
		2	500	192	450	-	750	120	2V4KA	2CPX037654R9999
9	1350	1	250	108	450	450	450	120	1V5KA	2CPX037667R9999
		2	500	216	450	450	450	120	2V5KA	2CPX037668R9999
Row spacing 150 mm										
5	750	1	250	60	300	-	450	120	1V1K-150	2CPX077806R9999
		2	500	120	300	-	450	120	2V1K-150	2CPX077807R9999
6	900	1	250	72	300	-	600	120	1V2K-150	2CPX077810R9999
		2	500	144	300	-	600	120	2V2K-150	2CPX077811R9999



1V0KA 1V1KA 1V2KA 1V23KA 1V3KA 1V4KA 1V5KA 1V1K-150 1V2K-150

Internal expansion system - Distribution panels

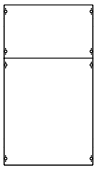
Busbars 40 mm, terminal blocks and contact protection



2V002A 2V02A

- Busbar center distance 40 mm
- With 5-pole busbars 12 x 5 mm
- With busbar bracket type ZX2BP2
- Rated current (I_n) max. 360 A (max. 12 x 10 mm)
- Distribution panels or field combinations must have the same grid units as the cabinets, in which they are installed
- For standalone and row switching cabinets, two fields or field combinations must be installed one above the other
- The EDF profile rails are included in the scope of delivery

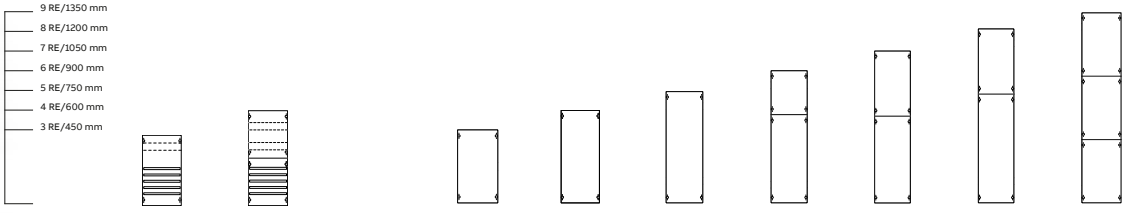
Height		Width			Distribution of the covers in mm			From a cabinet depth in mm	Type	Order code
RE	mm	FB	mm	PLE	top	middle	bottom			
3	450	1	250	36	450	-	-	120	1V002A	2CPX037590R9999
		2	500	72	450	-	-	120	2V002A	2CPX037609R9999
4	600	1	250	48	300	-	300	120	1V02A	2CPX037606R9999
		2	500	96	300	-	300	120	2V02A	2CPX037607R9999



2B2A

- Distribution panels or field combinations must have the same grid units as the cabinets, in which they are installed
- For standalone and row switching cabinets, two fields or field combinations must be installed one above the other
- The EDF profile rails are included in the scope of delivery

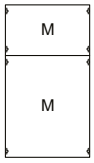
3	450	1	250	36	450	-	-	120	1B00A	2CPX037585R9999
		2	500	72	450	-	-	120	2B00A	2CPX037586R9999
4	600	1	250	48	600	-	-	120	1B0A	2CPX037601R9999
		2	500	96	600	-	-	120	2B0A	2CPX037602R9999
5	750	1	250	60	750	-	-	120	1B1A	2CPX037620R9999
		2	500	120	750	-	-	120	2B1A	2CPX037621R9999
6	900	1	250	72	300	-	600	120	1B2A	2CPX037632R9999
		2	500	144	300	-	600	120	2B2A	2CPX037633R9999
7	1050	1	250	84	450	-	600	120	1B3A	2CPX037649R9999
		2	500	168	450	-	600	120	2B3A	2CPX037650R9999
8	1200	1	250	96	450	-	750	120	1B4A	2CPX037661R9999
		2	500	192	450	-	750	120	2B4A	2CPX037662R9999
9	1350	1	250	108	450	450	450	120	1B5A	2CPX037675R9999
		2	500	216	450	450	450	120	2B5A	2CPX037676R9999



1V002A 1V02A 1B00A 1B0A 1B1A 1B2A 1B3A 1B4A 1B5A

Internal expansion system - Distribution panels

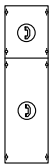
Mounting plates and mounting cross-beams



2M2A

- Mounting plates that are variably adjustable in depth via the deep angle piece ED33
- Distribution panels or field combinations must have the same grid units as the cabinets, in which they are installed
- For standalone and row switching cabinets, two fields or field combinations must be installed one above the other
- The EDF profile rails are included in the scope of delivery

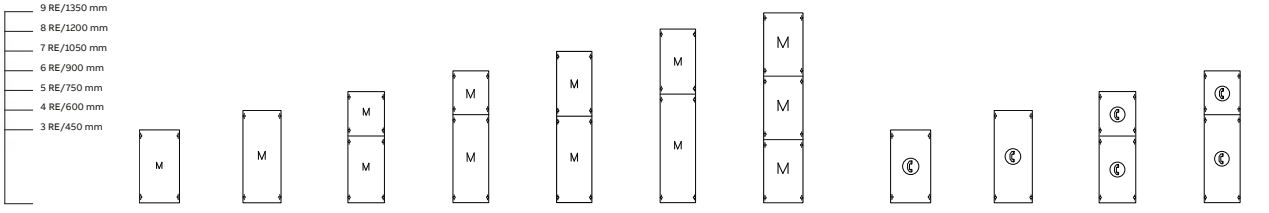
Height		Width			Distribution of the covers in mm			From a cabinet		
RE	mm	FB	mm	PLE	top	middle	bottom	depth in mm	Type	Order code
3	450	1	250	36	450	-	-	120	1M00A	2CPX037582R9999
		2	500	72	450	-	-	120	2M00A	2CPX037583R9999
4	600	1	250	48	600	-	-	120	1M0A	2CPX037595R9999
		2	500	96	600	-	-	120	2M0A	2CPX037596R9999
5	750	1	250	60	300	-	450	120	1M1A	2CPX037614R9999
		2	500	120	300	-	450	120	2M1A	2CPX037615R9999
6	900	1	250	72	300	-	600	120	1M2A	2CPX037626R9999
		2	500	144	300	-	600	120	2M2A	2CPX037627R9999
7	1050	1	250	84	450	-	600	120	1M3A	2CPX037643R9999
		2	500	168	450	-	600	120	2M3A	2CPX037644R9999
8	1200	1	250	96	450	-	750	120	1M4A	2CPX037655R9999
		2	500	192	450	-	750	120	2M4A	2CPX037656R9999
9	1350	1	250	108	450	450	450	120	1M5A	2CPX037669R9999
		2	500	216	450	450	450	120	2M5A	2CPX037670R9999



1MK2A

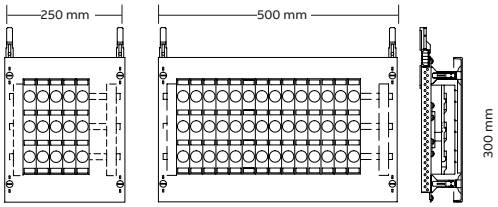
- Mounting cross-beams that are variably adjustable in depth via the deep angle piece ED33
- For contact-free mounting with M4 cage nuts
- Distribution panels or field combinations must have the same grid units as the cabinets, in which they are installed
- For standalone and row switching cabinets, two fields or field combinations must be installed one above the other
- The EDF profile rails are included in the scope of delivery

3	450	1	250	36	450	-	-	120	1MK00A	2CPX037179R9999
4	600	1	250	48	600	-	-	120	1MK0A	2CPX037180R9999
5	750	1	250	60	300	-	450	120	1MK1A	2CPX037181R9999
6	900	1	250	72	300	-	600	120	1MK2A	2CPX037182R9999

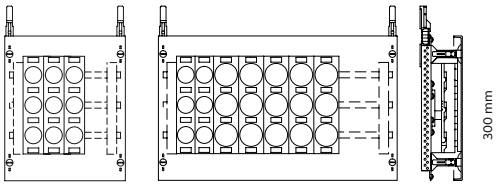


Internal expansion system - Combination sets

Busbars 40 mm/60 mm for operating equipment



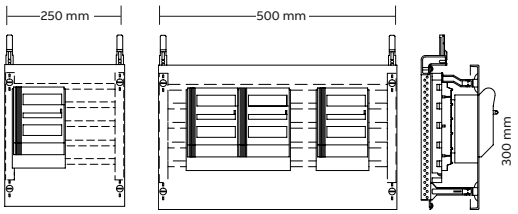
ED10EA **ED20EA**



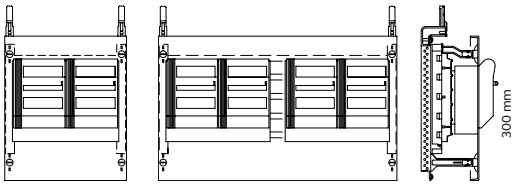
ED11EA **ED21EA**

- With 3-pole bus-mounting fuse sockets
- Busbar center distance 60 mm
- With 3-pole busbars 12 x 5 mm
- With busbar bracket type ZX151
- Rated current (I_n) max. 100 A
- Combination sets are plugged into the distribution panel at the top or bottom and mounted on the other side of the cabinet

Height		Width			Equipment				
RE	**mm**	**FB**	**mm**	**PLE**	**Version**	**Number**	**From cabinet depth**	**Type**	**Order code**
2	300	1	250	24	D02 (ZE60)	5	200	ED10EA	2CPX037800R9999
		2	500	48	D02 (ZE60)	14	200	ED20EA	2CPX037804R9999
2	300	1	250	24	Diazed E27 (ZE61)	3	200	ED11EA	2CPX037801R9999
		2	500	48	Diazed E27 (ZE61)/ Diazed E33N (ZE62)	2/5	200	ED21EA	2CPX037805R9999



ED12TA **ED21TA**



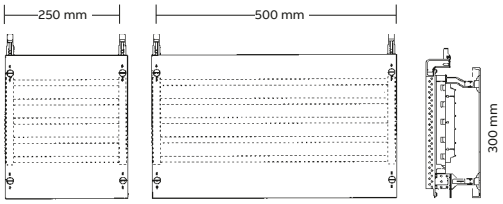
ED13TA **ED22TA**

- With NH fuse switch disconnector 3-pole
- Busbar center distance 40 mm
- With 3-pole busbars 12 x 5 mm
- With busbar bracket type ZX2BP2
- Rated current (I_n) max. 250 A
- Combination sets are plugged into the distribution panel at the top or bottom and mounted on the other side of the cabinet

2	300	1	250	24	NH00 (ZH414)	1	200	ED12TA	2CPX037802R9999
		2	500	48	NH00 (ZH414)	3	200	ED21TA	2CPX037806R9999
2	300	1	250	24	NH00 (ZH414)	2	200	ED13TA	2CPX037803R9999
		2	500	48	NH00 (ZH414)	4	200	ED22TA	2CPX037807R9999

Internal expansion system - Combination sets

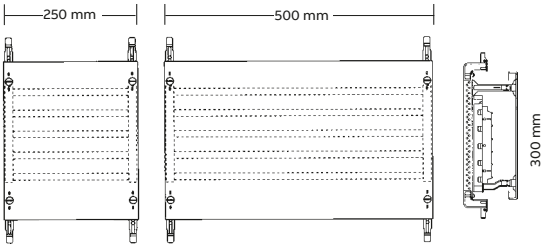
Busbars



ED61SA **ED62SA**

- Busbar center distance 40 mm
- With 5-pole busbars 12 x 5 mm
- With busbar bracket type ZX2BP2
- Rated current (I_n) max. 250 A
- Combination sets are plugged into the distribution panel at the top or bottom and mounted on the other side of the cabinet

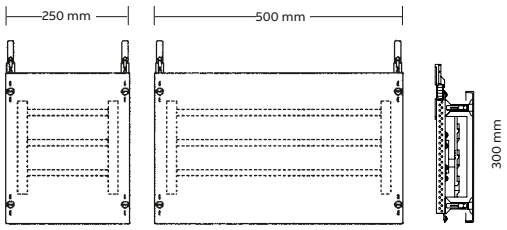
Height		Width					
RE	mm	FB	mm	PLE	From cabinet depth	Type	Order code
2	300	1	250	24	200	ED61SA	2CPX037810R9999
		2	500	48	200	ED62SA	2CPX037811R9999



ED71SA **ED72SA**

- Busbar center distance 40 mm
- With 5-pole busbars 12 x 5 mm
- With busbar bracket type ZX2BP2
- Rated current (I_n) max. 250 A
- Combination sets are plugged into distribution panels at the top and bottom and thus are provided as an interim installation

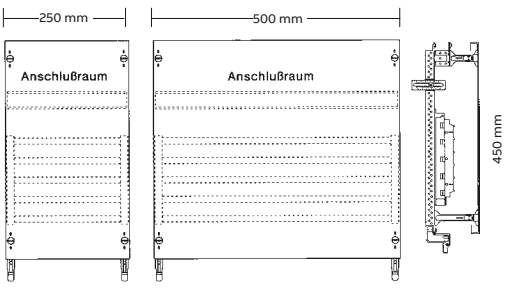
2	300	1	250	24	200	ED71SA	2CPX037812R9999
		2	500	48	200	ED72SA	2CPX037813R9999



ED55A **ED56A**

- Busbar center distance 60 mm
- With 3-pole busbars 12 x 5 mm
- With busbar bracket type ZX151
- Rated current (I_n) max. 250 A
  (for expansion with bus-mounting fuse socket max. 100 A)
- Combination sets are plugged into the distribution panel at the top or bottom and mounted on the other side of the cabinet

2	300	1	250	24	200	ED55A	2CPX037808R9999
		2	500	48	200	ED56A	2CPX037809R9999



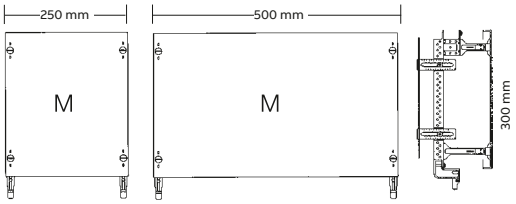
ED91SA **ED92SA**

- Busbar center distance 40 mm
- With 5-pole busbars 12 x 5 mm
- With busbar bracket type ZX2BP2
- Rated current (I_n) max. 250 A
- In addition, mounted with a DIN rail on a deep angle piece ED33P2
- Combination sets are plugged into the distribution panel at the top or bottom and mounted on the other side of the cabinet

3	450	1	250	36	200	ED91SA	2CPX037816R9999
		2	500	72	200	ED92SA	2CPX037817R9999

Internal expansion system - Combination sets

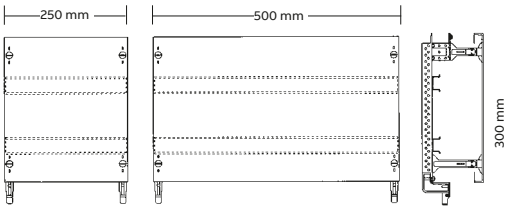
Mounting plates, terminal blocks and Tmax circuit



ED61MA **ED62MA**

- Mounting plates that are variably adjustable in depth via the deep angle piece ED33
- Combination sets are plugged into the distribution panel at the top or bottom and mounted on the other side of the cabinet
- The maximum installation depth between mounting plate and cover is 178 mm

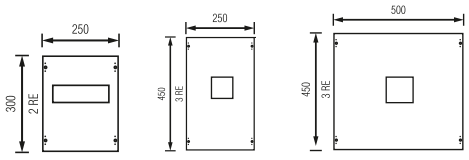
Height		Width					
RE	**mm**	**FB**	**mm**	**PLE**	**From cabinet depth**	**Type**	**Order code**
2	300	1	250	24	200	ED61MA	2CPX037820R9999
		2	500	48	200	ED62MA	2CPX037821R9999



ED61KA **ED62KA**

- With horizontally-arranged DIN rails 35 x 15 mm
- DIN rails can be set up to be protection-insulated with the insulator piece ZK90P2 if necessary
- Row spacing 150 mm (can be moved when it is needed)
- Combination sets are plugged into the distribution panels at the top and bottom and attached on the other side of the cabinet

2	300	1	250	24	200	ED61KA	2CPX037822R9999
		2	500	48	200	ED62KA	2CPX037823R9999
3	450	1	250	36	200	ED91KA	2CPX037824R9999
		2	500	72	200	ED92KA	2CPX037825R9999



ED250T3 **ED320T4** **ED630T5**

- For power switches ABB T-max
- ED250T3, Tmax XT1, 2 x 3-pole, 1 x 4-pole
  Tmax XT3, 1 x 3-pole, 1 x 4-pole, in the small distributor only 1 x Tmax XT1 with rocker arm max. I_n to 100 A
- ED320T4, Tmax, T4, 3-pole
- ED630T5, Tmax, T4, 4-pole and Tmax, T5, 3- and 4-pole
  Combination sets can only be used in combination with distribution panels

2	300	1	250	24	200	ED250T3	2CPX037826R9999
3	450	1	250	36	200	ED320T4	2CPX037827R9999
		2	500	72	200	ED630T5	2CPX037828R9999

Interior expansion system - Distribution panels/combination sets

General accessories



ED30P2



ED31P2



ED32P2



ZK300

Article	Unit	Type	Order code
Panel connector for EDF profile For any combination of distribution panels or EDF profile rails up to a maximum of 9 grid units	2	ED30P2	2CPX062302R9999
Lowering connector for EDF profile For equalizing deep-lying mounting levels of busbars and mounting plate panels up to 9 grid units	2	ED31P2	2CPX062303R9999
Lowering bracket for EDF profile For equalizing the front to rear mounting level	2	ED32P2	2CPX062304R9999
N/PE busbar system for distribution panels Copper 12 x 5 mm, max. connection 95 mm², rated current (I_n) 250 A			
1-field width	1	ZK300	2CPX038551R9999
2-field width	1	ZK301	2CPX038552R9999



ZK113B



ZK113G



ZK10P10



ZK14



ZK15

Article	Number of terminals 1.5 - 4 mm²	Number of terminals 2.5 - 25 mm²	External dimensions H x W x D in mm	Unit	Type	Order code
N Quick plug-in terminals For Quick plug-in carrier	5	0	23 x 32 x 21	1	ZK50B	2CPX062750R9999
	5	1	32 x 32 x 31	1	ZK51B	2CPX062751R9999
	8	2	32 x 49 x 31	1	ZK82B	2CPX062752R9999
	11	3	32 x 65 x 31	1	ZK113B	2CPX062753R9999
	14	4	32 x 82 x 31	1	ZK144B	2CPX062754R9999
	17	5	32 x 98 x 31	1	ZK175B	2CPX062755R9999
	20	6	32 x 115 x 31	1	ZK206B	2CPX062756R9999
PE Quick plug-in terminals For Quick plug-in carrier	5	1	32 x 32 x 31	1	ZK51G	2CPX062757R9999
	8	2	32 x 49 x 31	1	ZK82G	2CPX062758R9999
	11	3	32 x 65 x 31	1	ZK113G	2CPX062759R9999
	14	4	32 x 82 x 31	1	ZK144G	2CPX062760R9999
	17	5	32 x 98 x 31	1	ZK175G	2CPX062761R9999
	20	6	32 x 115 x 31	1	ZK206G	2CPX062762R9999
Connecting bridges For Quick plug-in terminals				10	ZK10P10	2CPX062763R9999
Quick plug-in carrier For distribution panels Usable width for Quick plug-in terminals 214 mm 13 units				1	ZK14	2CPX064983R9999
Adapter for ZK50B By snapping the ZK50B N Quick plug-in terminal into the ZK15 adapter, the ZK50BT is ready for lateral mounting in the UK5 ..., A3 ... or for snapping onto the DIN rail				1	ZK15	2CPX064984R9999

Notes

Distribution panel system CombiLine X
General information

Busbars for low voltage switchgear and controlgear assemblies

In this chapter you will find useful information on planning a low-voltage distribution. After you have collected the necessary data in the first step, the following information will help you to carry out the project planning in such a way that you can provide a design verification.

The following parameters are critical in order to define the dimensions of a busbar system:

- Necessary current carrying capacity I_{nA} / I_{nC}
- Rated peak withstand current (I_{pk})
- Rated short-time withstand current (I_{cw})
- Rated voltage (U_e)
- Rated impulse withstand voltage (U_{imp})

The specifications for these design values can be found on the next pages.

The short-circuit strength of the busbar system is determined by the

- arrangement of the conductors to each other
- Inherent stability of the conductors

The inherent stability of the conductor (the busbar) depends on the conductor geometry (flat rail/profile rail).

The inherent stability and the arrangement of the busbars to each other determine the spacing of the busbar supports. The busbar holder shall be capable of withstanding the forces that occur. Exceeding of the conductors' inherent withstand rating and incorrect support distances will lead to unacceptable conductor deformations. The busbar support must absorb the forces that occur. If the inherent strength of the conductors is exceeded and the support distances are incorrectly selected, this will result in impermissible deformations of the conductors.

The calculation of the occurring forces, the inherent stability and the maximum distances between the busbar supports can be carried out according to DIN VDE 0103 (IEC 60865-1).

Distribution panel system CombiLine N
General information

Project planning of distribution board and design verification
When designing the system, it is necessary to clarify the level of the short-circuit current occurring at the installation location for the verification.

In the following cases a short circuit withstand rating verification is not required as per DIN EN 61439:
- If the rated short-time withstand current or rated conditional short-circuit current at the installation site is less than 10 kA
- If a cut off current of current-limiting devices is not exceeding 17 kA at the terminals of the incoming circuit of the assembly

If this is not the case, verification must be provided by means of an examination.

If higher short-circuit values than the above-mentioned values are to be expected at the installation site, you can alternatively use the tables derived from numerous tests for verification. You will find them on the next pages to prove the strength of the busbar system you have realized with our components.

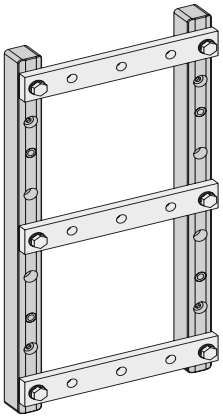
Notes on the design of busbar connections
For the connection of busbars, DIN 43 673 (busbars - bores and screw connections) should be observed.

It contains information on how connections
- should be made in geometry
- with which fastening elements
- and with which torques.

Of course, on the selection pages of this chapter we offer you the appropriate materials to make secure connections.

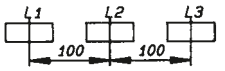
Distribution panel system CombiLine N

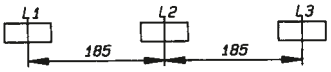
Technical specifications of the busbar holder ZX522



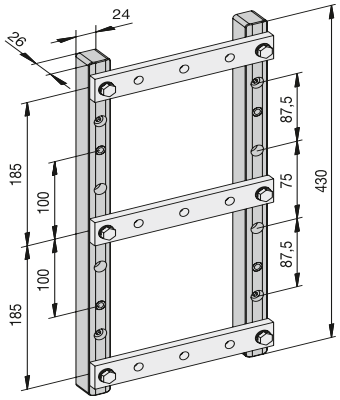
ZX522

Technical specifications		
Busbar holder ZX522		
3-Pole busbar system		
Busbar centre spacing	100 mm	185 mm
Cu busbars	up to 60 x 10 mm	up to 100 x 10 mm
Rated current (I_n)	max. 1450 A	max. 1700 A
Rated short-time withstand current (I_{cw}) see table		
Rated peak withstand current (I_{pk}) see table		
Rated voltage U_e = 400 V		
Rated impulse withstand voltage U_{imp} = 6 kV		
To be used with busbars E-Cu, unprocessed and blank.		





Dimensions	Rated current	Cross section	Weight
Cu busbars H x W (mm)	in A	in mm²	(kg)
30 x 10	630	299.0	2.7
40 x 10	850	399.0	3.6
50 x 10	1000	499.0	4.4



> Dimensions (mm)

Distribution panel system CombiLine N

Technical specifications of the busbar holder ZX563

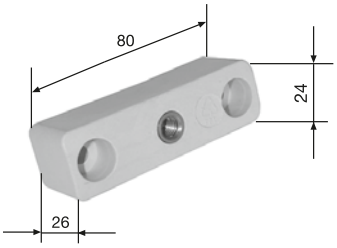


ZX563

Technical specifications
N/PE busbar holder ZX563
Distance of the fixing holes 60 mm
Cu busbars 30 x 5 up to 60 x 10 mm
Rated current (I_n) max. 1250 A
Rated short-time withstand current (I_{cw}) see table
Rated peak withstand current (I_{pk}) see table
Rated voltage U_e = 400 V
Rated impulse withstand voltage U_{imp} = 8 kV
To be used with busbars E-Cu, unprocessed and blank.



Dimensions	Rated current	Cross section	Weight
Cu busbars H x W (mm)	in A	in mm²	(kg)
30 x 10	630	299.0	2.7
40 x 10	850	399.0	3.6
50 x 10	1000	499.0	4.4



Short circuit withstand rating			
Cu busbars H x W (mm)	Busbar holder spacing max. (mm)	I_{cw}/kA	I_{pk}/kA
30 x 10	730	26.3	59.2
40 x 10	730	45.0	100.0
60 x 10	730	30.0	63.0

> Dimensions (mm)

Subdistribution boards

Fire protection housing – Housing for preventive fire protection

Preventive fire protection is not just the job of the construction managers. Electrical designers and installers or switchgear manufacturers are responsible during planning and execution for making sure that their systems will not the cause of a fire. In electrical switchgear, the following elements:

- Loose terminals
- Short circuits
- Fault arcs
- Overloads
- Insulation errors
- Lightning strikes

can cause a fire. Therefore, the system operator also needs to make the appropriate contribution by checking the electrical systems at fixed intervals, maintaining them and upgrading them as needed.

In the case of technical installations in industry or in building complexes with large concentrations of people, such as in airports, train stations, nursing homes, hospitals or hotels, it is vital that the functionality of safety-relevant electrical systems is maintained even during a fire.

ABB STRIEBEL & JOHN offers you an innovative housing system for preventive fire protection made of non-flammable material with optimal technical and economic expansion options.

A wide range of wall and standing housings are available in various cabinet sizes.

Subdistribution boards

Fire protection housing – General technical data

Technical parameters

Mounting type	UP wall mounting/AP wall mounting/AP standing mounting
Housing	Highly compressed, multi-layer fire protection panels (DIN 4102-1/DIN EN 13501-1) of building material class ‘A2’ non-flammable, smoke-tight
Surface	Coating light gray - similar to RAL 7035, edges in contrasting colors
Door	Door hinge right or left as standard, left also possible after conversion, opening angle approx. 180 degrees
Lock	Locking with sash lock through swivel handle with double bit half cylinder
Interior expansion	Prepared for installing distributor fields and CombiLine module system fields
Cable entries	Top and bottom
Standard ventilation	Ventilation in case of fire self-closing
Additional equipment	IP54, various decorative surfaces, reinforced back wall for free installation

Standards/regulations*

DIN EN 61439-2 (VDE 0660-600-2) (modules EDFmounting frame)	X
Protection class	IP41/IP44/IP54
Installation site/environment	Interior space
Ambient temperature, 24-hour average	+ 35°
Ambient temperature maximum value	+ 40 °
Ambient temperature minimum value	- 5°

Electrical characteristics

Rated impulse withstand voltage U_{imp}	III/6 kV
Pollution degree	3
Protection class	II
Rated surge current resistance I_{pk}	max. 17 kA
Rated short-time current I_{cw} 1.0 sec	max. 10 kA
Rated frequency	50-60 Hz
Rated insulating voltage U_i	690 V
Rated operating voltage AC U_e	400 V

Subdistribution boards

Fire protection housing – Standard features



Material/design
- Building material with surface – A2-s1, d0
- Fire resistance F30/F90
- Protection class depending on application, IP41, IP44 or IP54
- Smoke-tight
- Cold smoke-proof
- Wall thickness reduced to 72 mm



Locking using the swivel handle
The doors have swivel levers in stainless steel look, which are located centrally and can be locked with double bit half cylinders



Changeable door hinge
The door hinge is easy to change - to convert, unscrew the hinge from the door joint and screw it into the opposite joint. The door is fastened using the pre-drilled fixing holes in the door and the cabinet body. The door hinge is on the right as standard.

Stainless steel hinges
High-quality stainless steel hinges with a push-out axle pin allow for easy removal of the door. If necessary, significant weight reduction can thus be achieved for transport.



Mounting tabs
The flush-mounted wall housings are screwed from the outside with two mounting tabs attached to the head part, each with a dowel on the wall behind it. Therefore, the equipped housing can be easily and quickly mounted.



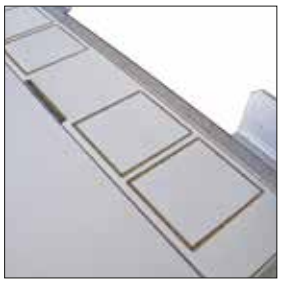
Integrated ventilation system
Consisting of fan and smoke detector, ready for connection (230 V AC), this reduces the area that can be fitted by one grid unit (RE).

Subdistribution boards

Fire protection housing – Standard features



Cable sheath
Cable sheaths for bundle or individual cable entry are located at the top and bottom of the housing.



Cable sheath (delivery condition)
The cable sheaths are standard in all wall and standing housings. This ensures quick and easy cable entry for every application.

Silicone seal
To increase the protection class to IP54, a full-perimeter silicone seal is needed for the cable entry points (see page 18/338).



- Empty housing, prepared for installing distributor fields and CombiLine module system fields each minus one raster unit per housing
- Doors are easy to remove - axle pin can be pushed out (reduced transport weight)
- Door opening angle 180 degrees
- Locking with rod lock, 2-point locking
- Color light gray - similar to RAL7035, with colored edges
- High chemical resistance (surface characteristics based on DIN EN 438-2)
- High mechanical strength and stability, Brinell hardness 50 N/mm^2
- High material density 1,450 kg/m^3
- Integrated ventilation system (area that can be fitted is reduced by one grid unit)

Subdistribution boards

Fire protection housing – Overview



Flush-mounted wall housing UF, IP41 ⧈
Housing depth 205 mm
Housing for flush mount

Material + Decor A2 Class | Fire Resistance 30 Min. | Fire Resistance 90 Min.



Surface-mount wall housing AF, IP44 ⧈
Housing depth 349 mm (internal depth 240 mm)
Housing for surface wall mounting

Material + Decor A2 Class | Fire Resistance 30 Min. | Fire Resistance 90 Min.



Standing housing SF, IP44 ⧈
Housing depth 349 mm (internal depth 240 mm)
Housing for standing installation

Material + Decor A2 Class | Fire Resistance 30 Min. | Fire Resistance 90 Min.

Subdistribution boards

Fire protection housing – Overview



Sheath housing MF, IP41

Housing for mounting using available distributors

Material + Decor A2 Class | Fire Resistance 30 Min.



Terminal boxes without terminal block KF, IP41 ⊡

Housing for wall or ceiling mounting

Mounting material for ceiling mounting available on request

Material + Decor A2 Class | Fire Resistance 30 Min. | Fire Resistance 90 Min.



Facing doors VF, IP54

Doors which are installed in front of existing flush-mounted distributors

Material + Decor A2 Class | Fire Resistance 30 Min. | Fire Resistance 90 Min.

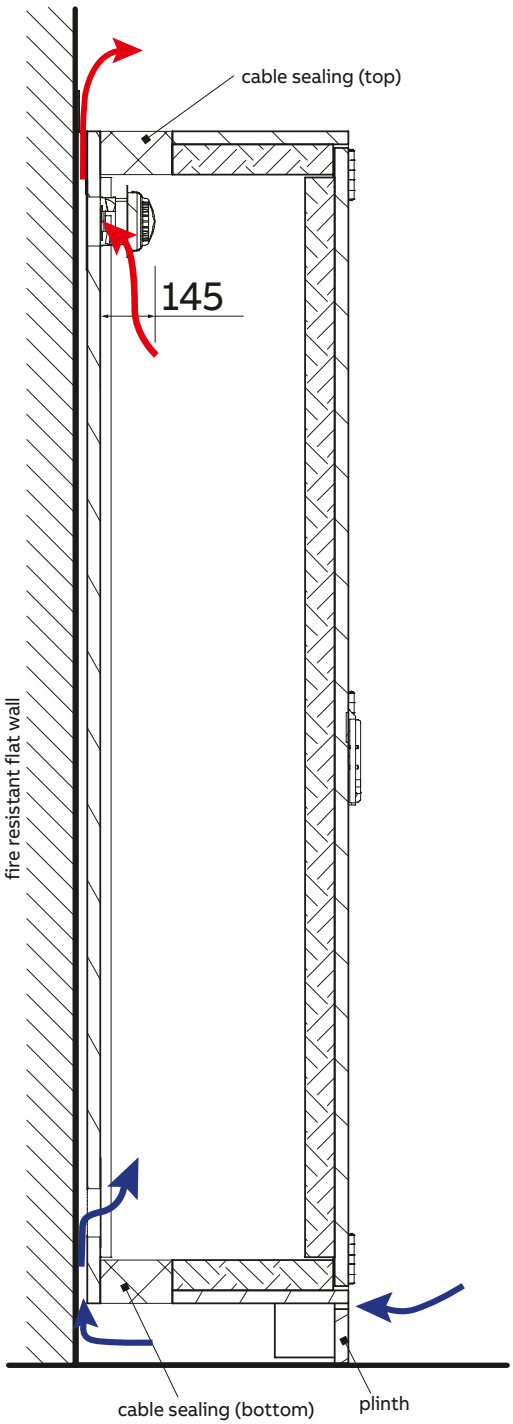
Subdistribution boards

Fire protection housing – Additional equipment

Wall housing/standing housing when mounting or installing as freestanding unit

If installing as a free-standing unit, or in case of an extremely uneven wall, a BRW18 - BRW38 fire protection plate (42 mm thick) must be additionally screwed onto the back wall of the housing.

> The fire protection plate must be ordered separately, see page The fire protection plate must be ordered separately, see page 18/328

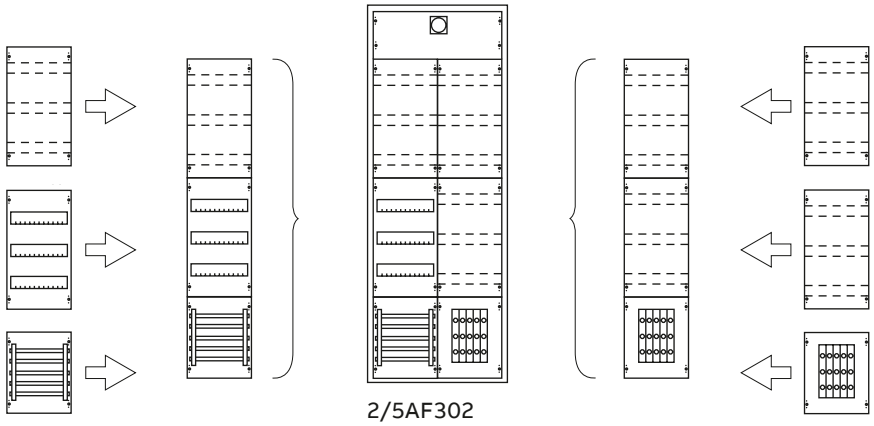


Schematic representation of ventilation in a standing housing

Subdistribution boards

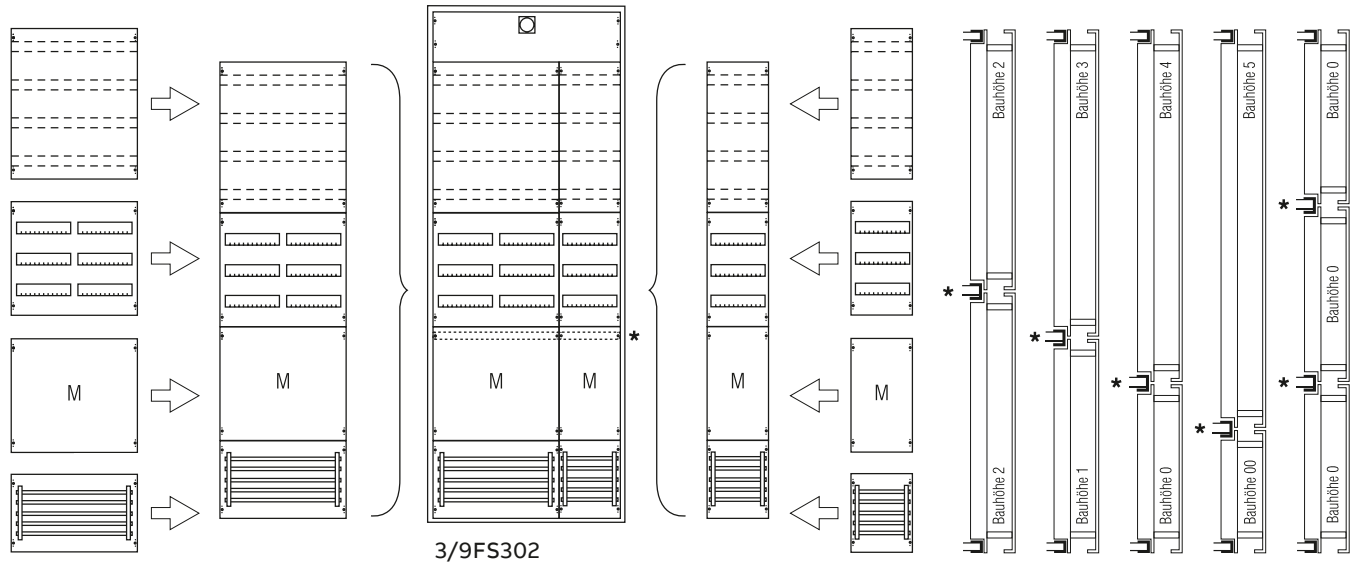
Fire protection housing – Configuration example/mounting instructions

Configuration example: Surface-mount wall housing AF



2/5AF302

Configuration example: Standing housing SF



3/9FS302

*Middle support rail adjustable up and down

Important notes

For flush-mounted, surface-mounted and standing housings, the mounting frames needed to hold the CombiLine modules or distributor panels are prefitted (for CombiLine modules and distributor fields/combination sets see chapter 8)
There is a fan in the upper part of the housing which occupies the space of one grid unit (1 RE). This space has a closed cover and is not available for the installation of CombiLine modules or distributor fields/combination sets.
When planning modular system fields for standing housings, the middle support rail, which extends over the entire width of the housing, must be taken into account (see configuration example Standing housing SF).

Subdistribution boards

Fire protection housing – Flush-mounted wall housing



Flush-mounted wall housing UF, IP41 ⧈
Housing depth 205 mm
Housing for flush mount



Main features

- Material with A2 surface coating - non-combustible, tested in accordance with DIN 4102-1
- Fire resistance F30/F90, tested in accordance with DIN 4102-2
- Protection type in accordance with IP41 ⧈ protection class II
- Smoke-tight, cold smoke-tight

Structure

- Flush mount (solid wall F30/F90)
- Prepared for installation of distributor fields
- Prepared for expansion with CombiLine modules on EDFmounting frame
- Changeable door hinge
- Door can be de-attached, thereby reducing weight
- Locking with sash lock using swivel handle with double bit half cylinder
- Cable entry at the bottom and top
- Door internal
- Opening angle 180 degrees

Surface

- Color light gray - similar to RAL 7035, with colored edges
- High chemical resistance
- High mechanical strength and stability

Additional equipment/options

- A variety of decorative surfaces

Subdistribution boards

Fire protection housing – Flush-mounted wall housing, IP41 ⧈, depth 205 mm

Overall height	Locking unit	Field width	Door hinge	Space units	External dimensions in mm			Weight in kg
Overall height	RE	FB		PLE	H × W × D	Type	Item number	
Flush-mounted wall housing, IP41 ⧈, depth 205 mm								
0	4	1	right	48	682 × 332 × 205	1/0UF2020	2CPX040008R9999	41
0	4	1	left	48	682 × 332 × 205	1/0UF2120	2CPX040009R9999	41
0	4	2	right	96	682 × 582 × 205	2/0UF2020	2CPX040020R9999	58
0	4	2	left	96	682 × 582 × 205	2/0UF2120	2CPX040021R9999	58
2	6	1	left	72	982 × 332 × 205	1/2UF2120	2CPX040029R9999	55
2	6	2	right	144	982 × 582 × 205	2/2UF2020	2CPX040040R9999	80
2	6	2	left	144	982 × 582 × 205	2/2UF2120	2CPX040041R9999	80

Material + Decor A2 Class | Fire Resistance 30 Min.

Flush-mounted wall housing, IP41 ⧈, depth 205 mm								
0	4	1	right	48	682 × 332 × 205	1/0UF2021	2CPX040052R9999	49
0	4	1	left	48	682 × 332 × 205	1/0UF2121	2CPX040053R9999	49
0	4	2	right	96	682 × 582 × 205	2/0UF2021	2CPX040064R9999	70
0	4	2	left	96	682 × 582 × 205	2/0UF2121	2CPX040065R9999	70
2	6	1	right	72	982 × 332 × 205	1/2UF2021	2CPX040076R9999	67
2	6	1	left	72	982 × 332 × 205	1/2UF2121	2CPX040077R9999	67
2	6	2	right	144	982 × 582 × 205	2/2UF2021	2CPX040088R9999	99
2	6	2	left	144	982 × 582 × 205	2/2UF2121	2CPX040089R9999	99

Material + Decor A2 Class | Fire Resistance 90 Min.

> For dimensions and weights, see pageFor dimensions and weights
> For CombiLine modules and distributor panels see chapter on interior expansion systems

Subdistribution boards

Fire protection housing – Surface-mount wall housing



Surface-mount wall housing AF, IP44 ⧈
Housing depth 349 mm
Housing for surface wall mounting

Material + Decor A2 Class | Fire Resistance 30 Min. | Fire Resistance 90 Min.

Main features

- Material with A2 surface coating - non-combustible, tested in accordance with DIN 4102-1/ EN 135 01-1
- Fire resistance F30/F90, tested in accordance with DIN 4102-2
- Protection type in accordance with IP44 ⧈ protection class II
- Smoke-tight, cold smoke-tight
- Ventilation system in the rear wall

Structure

- Wall mounting (solid wall F30/F90)
- Prepared for installation of distributor fields
- Prepared for expansion with CombiLine modules on EDFmounting frame
- Changeable door hinge on site, standard right
- Door can be de-attached, thereby reducing weight
- Locking with rod lock using swivel handle with double bit half cylinder
- Cable entry at the bottom and top
- Mounting tabs placed externally
- Door internal
- Opening angle 180 degrees

Surface

- Color light gray - similar to RAL 7035, with colored edges
- High chemical resistance
- High mechanical strength and stability

Subdistribution boards

Fire protection housing – Surface-mount housing, IP44 ⧈, depth 349 mm

Overall height	Locking unit	Field width	Space units	External dimensions in mm			Weight in kg
Overall height	RE	FB	PLE	H × W × D	Type	Item number	
Surface-mount housing, IP44 ⧈, depth 349 mm							
00	3	1	36	598 × 398 × 349	1/00AF302	2CPX043265R9999	51
00	3	2	72	598 × 648 × 349	2/00AF302	2CPX043266R9999	71
0	4	1	48	748 × 398 × 349	1/0AF302	2CPX043267R9999	62
0	4	2	96	748 × 648 × 349	2/0AF302	2CPX043268R9999	85
1	5	1	60	898 × 398 × 349	1/1AF302	2CPX043269R9999	73
1	5	2	120	898 × 648 × 349	2/1AF302	2CPX043270R9999	99
2	6	1	72	1048 × 398 × 349	1/2AF302	2CPX043271R9999	83
2	6	2	144	1048 × 648 × 349	2/2AF302	2CPX043272R9999	114
3	7	1	84	1198 × 398 × 349	1/3AF302	2CPX043274R9999	94
3	7	2	168	1198 × 648 × 349	2/3AF302	2CPX043275R9999	128
3	7	3	252	1198 × 898 × 349	3/3AF302	2CPX043276R9999	163
4	8	2	192	1348 × 648 × 349	2/4AF302	2CPX043278R9999	143
5	9	2	216	1498 × 648 × 349	2/5AF302	2CPX043281R9999	157

Material + Decor A2 Class

Fire Resistance 30 Min.

Surface-mount housing, IP44 ⧈, depth 349 mm							
0	3	1	36	598 × 398 × 349	1/00AF303	2CPX043380R9999	53
0	4	1	48	748 × 398 × 349	1/0AF303	2CPX043381R9999	64
0	4	2	96	748 × 648 × 349	2/0AF303	2CPX043382R9999	87
1	5	1	60	898 × 398 × 349	1/1AF303	2CPX043383R9999	75
1	5	2	120	898 × 648 × 349	2/1AF303	2CPX043384R9999	101
2	6	1	72	1048 × 398 × 349	1/2AF303	2CPX043385R9999	85
2	6	2	144	1048 × 648 × 349	2/2AF303	2CPX043386R9999	114
2	6	3	216	1048 × 898 × 349	3/2AF303	2CPX043387R9999	119
3	7	1	84	1198 × 398 × 349	1/3AF303	2CPX043388R9999	96
3	7	2	168	1198 × 648 × 349	2/3AF303	2CPX043389R9999	130
3	7	3	252	1198 × 898 × 349	3/3AF303	2CPX043390R9999	165

Material + Decor A2 Class

Fire Resistance 90 Min.

Important note

A cooling shutter is included for F90 fire resistance.
(For wall mounting housing a further cooling shutter could be necessary)

> For CombiLine modules and distributor panels see chapter on interior expansion systems

Subdistribution boards

Fire protection housing – Standing housing



Standing housing SF, IP44 ⧈
Housing depth 349 mm
Housing for standing installation

Material + Decor A2 Class | Fire Resistance 30 Min. | Fire Resistance 90 Min.

Main features

- Material with A2 surface coating - non-combustible, tested in accordance with DIN 4102-1/ EN 135 01-1
- Fire resistance F30/F90, tested in accordance with DIN 4102-2
- Protection type in accordance with IP44 ⧈ protection class II
- Smoke-tight, cold smoke-tight
- Ventilation system in the rear wall

Structure

- Freestanding installation
- Prepared for installation of distributor fields
- Prepared for expansion with CombiLine modules on EDFmounting frame
- Changeable door hinge, option of right or left
- Door can be de-attached, thereby reducing weight
- Locking with rod lock using swivel handle with double bit half cylinder
- Cable sheath for bundle entry or single entry
- Cable entry point, top and bottom
- Door internal
- Opening angle 180 degrees
- Base with removable front for pallet truck
- Ventilation system through the back wall of the housing

Surface

- Color light gray - similar to RAL 7035, with colored edges
- High chemical resistance
- High mechanical strength and stability

Important note

If installing as a free-standing unit, or in case of an extremely uneven wall, a fire protection plate (42 mm thick) must be additionally screwed onto the back wall of the housing
(see page 18/338)

Subdistribution boards

Fire protection housing – Standing housing, IP44 ⧈, depth 349 mm

Overall height	Locking unit	Field width	Door hinge	Space units	External dimensions in mm			Weight in kg
Overall height	RE	FB	(Standard)	PLE	H × W × D	Type	Item number	
Standing housing IP44 ⧈, depth 349 mm								
8	12	1	right	144	2048 × 398 × 349	1/8SF302	2CPX043290R9999	152
8	12	2	right	288	2048 × 648 × 349	2/8SF302	2CPX043292R9999	206
8	12	3	right	432	2048 × 898 × 349	3/8SF302	2CPX043294R9999	259
9	13	1	right	156	2198 × 398 × 349	1/9SF302	2CPX043304R9999	163
9	13	2	right	312	2198 × 648 × 349	2/9SF302	2CPX043306R9999	220
9	13	3	right	468	2198 × 898 × 349	3/9SF302	2CPX043308R9999	278

Material + Decor A2 Class | Fire Resistance 30 Min.

Standing housing IP44 ⧈, depth 349 mm								
8	12	1	right	144	2048 × 398 × 349	1/8SF303	2CPX043391R9999	154
8	12	2	right	288	2048 × 648 × 349	2/8SF303	2CPX043392R9999	208
8	12	3	right	432	2048 × 898 × 349	3/8SF303	2CPX043393R9999	261
9	13	1	right	156	2198 × 398 × 349	1/9SF303	2CPX043394R9999	165
9	13	2	right	312	2198 × 648 × 349	2/9SF303	2CPX043395R9999	222
9	13	3	right	468	2198 × 898 × 349	3/9SF303	2CPX043396R9999	280

Important note
A cooling shutter is included for F90 fire resistance.

Material + Decor A2 Class | Fire Resistance 90 Min.

> For standing housing dimensions and weights, see page For standing housing dimensions and weights
> For CombiLine modules and distributor panels see chapter on interior expansion systems

Subdistribution boards

Fire protection housing – Sheath housing





Sheath housing MF, IP41
Housing depth 312 mm
Housing for mounting using available distributors



Features

- Material with surface coating A2 – non combustible, tested according to DIN 4102 Part 1
- Fire resistance F30, tested according to DIN 4102 Part 2
- Reduce fire load for 30 minutes
- Standard surface CPL
- Impervious to smoke

Design

- Empty housing withour rear panel
- Changeable door hinge, optionally right or left
- Door can be removed
- Door opening angle: 180 degree
- Espagnolette closure locking using swivel handle with double-bit semi-cylinders
- Fire protection seal, self-foaming in case of fire
- Cable entry, top and bottom
- Cable cooling duct top an bottom, 100 mm heigth (EUL31) or 300mm height (EUL91)

Surface

- Light grey coating – similar to RAL 7035, edges of contrasting colour
- High chemical resistance
- High mechanical resistance and stability

Subdistribution boards

Fire protection housing – Sheath housing, IP41, depth 312 mm

Internal dimensions in mm	External dimensions in mm			
				Weight in kg
H × W × D	H × W × D	Type	Item number	
Sheath housing, IP41, depth 396 mm				
754 × 504 × 240	898 × 648 × 312	1/0MF302	2CPX043996R9999	95
904 × 504 × 240	1048 × 648 × 312	1/1MF302	2CPX043997R9999	105
904 × 754 × 240	1048 × 989 × 312	2/1MF302	2CPX043998R9999	132
1204 × 504 x240	1348 × 648 × 312	1/3MF302	2CPX043999R9999	126





Subdistribution boards

Fire protection housing – Accessories

Artikel		External dimensions in mm H × W × D	Type	Order code	Price	Weight in kg
BRW29	**Fire protection board** Back walls are delivered in OH9. For OH8 and for 30min enclosures, the back wall need to be adapted.					
	For 1/8SF and 19SF		BRW19	2CPX043434R9999		67
	For 2/8SF and 2/9SF		BRW29	2CPX043435R9999		110
	For 3/8SF and 3/9SF		BRW39	2CPX043436R9999		152
 BKF21	**Cable cooling covers** Included within the delivery, an additional can be required if necessary.					
	1 panel width	300 x 398 x 200	BKF11	2CPX043431R9999		20
	2 panel width	300 x 648 x 200	BKF21	2CPX043432R9999		30
	3 panel width	300 x 898 x 200	BKF31	2CPX043433R9999		39
	Accessories supporting IP 54					
	Silicone for sealing the cable entries for protection class IP54		ZB900	2CPX042432R9999		

Subdistribution boards

Fire protection housing – Terminal boxes without terminal block



Terminal boxes without terminal block KF, IP41 ⧈
Housing for wall or ceiling mounting
Mounting material for ceiling mounting available on request

Material + Decor A2 Class | Fire Resistance 30 Min. | Fire Resistance 90 Min.

Main features

- Material with A2 surface coating - non-combustible, tested in accordance with DIN 4102-1
- Fire resistance F30/F90, tested in accordance with DIN 4102-2
- Protection class in accordance with IP41 ⧈
- Smoke-tight

Structure

- Mounting via 4 holes in the frame corners using the enclosed mounting material
- Mounting to wall or ceiling possible
- Cover screwed with two self-locking nuts
- Cover provided with a handle groove
- Cable entry points from 2 sides
- In case of fire, the cable sheath automatically foams up
- Easy mounting of the fixtures using pre-drilled holes
- Easy insertion and clamping of the cables thanks to a detachable frame plate system (layer structure)

Surface

- Color light gray - similar to RAL 7035, with colored edges
- High chemical resistance
- High mechanical strength and stability

Subdistribution boards

Fire protection housing – Terminal boxes without terminal block, IP41 ⧈

Internal dimensions in mm	External dimensions in mm	Cable entry point				Weight in kg
H × W × D	H × W × D	W × H	Number	Type	Item number	
Terminal boxes without terminal block, IP41 ⧈						
200 × 200 × 84	350 × 350 × 128	50 × 170	2	KF35140	2CPX041092R9999	17
300 × 300 × 84	450 × 450 × 128	50 × 270	2	KF45140	2CPX041093R9999	25
400 × 400 × 84	550 × 550 × 128	50 × 370	2	KF55140	2CPX041094R9999	34

Material + Decor A2 Class | Fire Resistance 30 Min.

Internal dimensions in mm	External dimensions in mm	Cable entry point				Weight in kg
H × W × D	H × W × D	W × H	Number	Type	Item number	
Terminal boxes without terminal block, IP41 ⧈						
200 × 200 × 84	350 × 440 × 148	50 × 170	2	KF3590	2CPX043437R9999	17
300 × 300 × 84	450 × 540 × 148	50 × 270	2	KF4590	2CPX043438R9999	25
400 × 400 × 84	550 × 640 × 148	50 × 370	2	KF5590	2CPX043439R9999	34

Material + Decor A2 Class | Fire Resistance 90 Min.

Subdistribution boards

Fire protection housing – Facing doors

Facing doors VF IP54

- Fire-resistant and smoke-tight seals
- Panel material with surface coating - non-flammable
- Fire resistance 30 and 90 minutes
- Mounting on different wall constructions

Material + Decor A2 Class | Fire Resistance 30 Min. | Fire Resistance 90 Min.

Fire protectionfacing doors are intended for the separation of existing flush-mounted wall distributions from escape and rescue paths.



Subdistribution boards

Fire protection housing – Facing doors

In the standard version, the distributor may protrude 20 mm out of the wall at the most. Old doors should be de-attached and removed.
The facing door must be at least 115 mm above the existing distributor, i.e. this covering dimension plus the door thickness, due to the opening angle, must be maintained around the existing distributor.

If the current distributor protrudes more than 20 mm from the wall, an additional extension frame can be ordered for the facing door.



Tested material with surface coating DIN 4102 Part 1; material class A2



Integrated frame with mounting points



Removable stainless steel hinges



Fire and smoke protection seal all around



2-point locking using rod lock



Swivel handle in stainless steel look with double bit half-cylinder

Subdistribution boards

Fire protection housing – Facing doors



Facing doors VF, IP54
Door depth for 30 minutes 51 mm
Door depth for 90 minutes 71 mm
Door mounted in front of existing flush-mounted distributors



Function

- Material with A2 surface coating - non-combustible, tested in accordance with DIN 4102-1
- Fire resistance F30/F90, tested in accordance with DIN 4102-2
- Smoke-tight
- Protection class in accordance with IP54

Structure

- 1-wing door
- Door opening angle approx. 180 degrees with F30 version, approx. 150 degrees with F90 version
- Door hinge on right
- Surrounding wall compensating frame (W x D: 115 x 28 mm) with mounting holes
- Doors opening onto the frame
- Locking with swivel handle in metal look with DIN half cylinder
- 2-point locking with rod lock
- Stainless steel hinges with push-out axle pin for de-attaching the door wings
- Mounting material: Frame dowels, screws included in scope of delivery

Surface

- Color light gray - similar to RAL7035, with colored edges
- High chemical resistance
- High mechanical strength and stability, Brinell hardness 50 N/mm^2
- High material density 1,450 kg/m^3
- Surface characteristics based on DIN EN 438-2

Additional equipment/options

- Additional compensating frame for larger covers
- A variety of decorative surfaces
- Door hinge on left

Subdistribution boards

Fire protection housing – Facing doors, IP54, door depth 51 mm and 71 mm

Overall height	Field width	Door hinge	Internal dimensions in mm	External dimensions in mm			Weight in kg
Overall height	FB		H × W × D	H × W × D	Type	Item number	
Facing doors, IP54, door depth 51 mm							
0	1	right	665 × 345 × 0	895 × 575 × 51	1/0VF10	2CPX041048R9999	30
0	2	right	665 × 565 × 0	895 × 795 × 51	2/0VF10	2CPX041049R9999	37
1	2	right	815 × 565 × 0	1045 × 795 × 51	2/1VF10	2CPX041050R9999	42
1	3	right	815 × 815 × 0	1045 × 1045 × 51	3/1VF10	2CPX041051R9999	53
2	2	right	965 × 565 × 0	1195 × 795 × 51	2/2VF10	2CPX041052R9999	47
2	3	right	965 × 815 × 0	1195 × 1045 × 51	3/2VF10	2CPX041053R9999	60
2	4	Double door	965 × 1065 × 0	1195 × 1295 × 51	4/2VF20	2CPX041057R9999	72
3	2	right	1115 × 565 × 0	1345 × 795 × 51	2/3VF10	2CPX043397R9999	58
3	3	right	1115 × 815 × 0	1345 × 1045 × 51	3/3VF10	2CPX043398R9999	71
3	4	Double door	1115 × 1065 × 0	1345 × 1295 × 51	4/3VF20	2CPX041058R9999	80
4	2	right	1265 × 565 × 0	1495 × 795 × 51	2/4VF10	2CPX041054R9999	58
4	3	right	1265 × 815 × 0	1495 × 1045 × 51	3/4VF10	2CPX041055R9999	73
4	4	Double door	1265 × 1065 × 0	1495 × 1295 × 51	4/4VF20	2CPX041059R9999	88
5	2	right	1415 × 565 × 0	1645 × 795 × 51	2/5VF10	2CPX043399R9999	70
5	3	right	1415 × 815 × 0	1645 × 1045 × 51	3/5VF10	2CPX043400R9999	86
5	4	Double door	1415 × 1065 × 0	1645 × 1295 × 51	4/5VF20	2CPX043401R9999	107
8	2	right	1865 × 565 × 0	2095 × 795 × 51	2/8VF10	2CPX041056R9999	79
8	4	Double door	1865 × 1065 × 0	2095 × 1295 × 51	4/8VF20	2CPX041060R9999	119



Facing doors, IP54, door depth 71 mm							
0	1	right	665 × 345 × 22	895 × 575 × 71	1/0VF11	2CPX041061R9999	42
0	2	right	665 × 565 × 22	895 × 795 × 71	2/0VF11	2CPX041062R9999	58
1	2	right	815 × 565 × 22	1045 × 795 × 71	2/1VF11	2CPX041063R9999	67
1	3	right	815 × 815 × 22	1045 × 1045 × 71	3/1VF11	2CPX041064R9999	86
2	2	right	965 × 565 × 22	1195 × 795 × 71	2/2VF11	2CPX041065R9999	76
2	3	right	965 × 815 × 22	1195 × 1045 × 71	3/2VF11	2CPX041066R9999	97
2	4	Double door	965 × 1065 × 22	1195 × 1295 × 71	4/2VF21	2CPX041070R9999	118
3	1	right	1115 × 345 × 22	1345 × 575 × 71	1/3VF11	2CPX043402R9999	70
3	2	right	1115 × 565 × 22	1345 × 795 × 71	2/3VF11	2CPX043403R9999	90
3	3	right	1115 × 815 × 22	1345 × 1045 × 71	3/3VF11	2CPX043404R9999	113
3	4	Double door	1115 × 1065 × 22	1345 × 1295 × 71	4/3VF21	2CPX041071R9999	132
4	2	right	1265 × 565 × 22	1495 × 795 × 71	2/4VF11	2CPX041067R9999	94
4	3	right	1265 × 815 × 22	1495 × 1045 × 71	3/4VF11	2CPX041068R9999	120
4	4	Double door	1265 × 1065 × 22	1495 × 1295 × 71	4/4VF21	2CPX041072R9999	146
8	2	right	1865 × 565 × 22	2095 × 795 × 71	2/8VF11	2CPX041069R9999	129
8	4	Double door	1865 × 1065 × 22	2095 × 1295 × 71	4/8VF21	2CPX041073R9999	201



Important notes

Minimum internal dimension of facing doors = niche dimension of the flush-mounted wall box without flush-mounted frame

Facing door swings over the frame on the hinge side => leave at least 40 mm

Subdistribution boards

Fire protection housing – Extension frame for facing doors



2/2EF11



4/2EF21

Overall height	Field width	Internal dimensions in mm	External dimensions in mm			Weight in kg
Overall height	FB	H × W × D	H × W × D	Type	Item number	
Extension frame for 1-wing doors						
0	1	665 × 345 × 22	895 × 575 × 22	1/0EF11	2CPX041074R9999	10
0	2	665 × 565 × 22	895 × 795 × 22	2/0EF11	2CPX041075R9999	12
1	2	815 × 565 × 22	1045 × 795 × 22	2/1EF11	2CPX041076R9999	13
1	3	815 × 815 × 22	1045 × 1045 × 22	3/1EF11	2CPX041077R9999	15
2	2	965 × 565 × 22	1195 × 795 × 22	2/2EF11	2CPX041078R9999	14
2	3	965 × 815 × 22	1195 × 1045 × 22	3/2EF11	2CPX041079R9999	16
4	2	1265 × 565 × 22	1495 × 795 × 22	2/4EF11	2CPX041080R9999	17
4	3	1265 × 815 × 22	1495 × 1045 × 22	3/4EF11	2CPX041081R9999	19
8	2	1865 × 565 × 22	2095 × 795 × 22	2/8EVF1	2CPX041082R9999	22
Extension frame for 2-wing doors						
2	4	965 × 1065 × 22	1195 × 1295 × 22	4/2EF21	2CPX041083R9999	18
3	4	1115 × 1065 × 22	1345 × 1295 × 22	4/3EF21	2CPX041084R9999	20
4	4	1265 × 1065 × 22	1495 × 1295 × 22	4/4EF21	2CPX041085R9999	21
8	4	1865 × 1065 × 22	2095 × 1295 × 22	4/8EF21	2CPX041086R9999	26

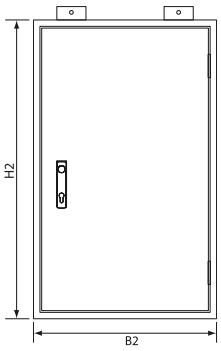




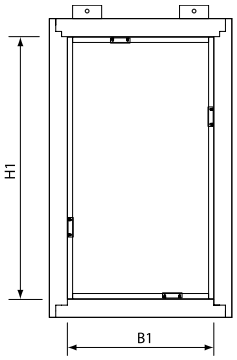
Subdistribution boards

Flush-mounted wall housing – Dimensions, weights, power loss

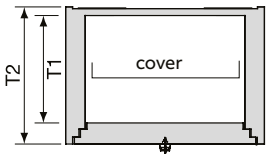
Front view



Internal view



Top view



Type	Internal dimensions in mm H1 × W1 × D1	External dimensions in mm H2 × W2 × D2	Weight in kg	Permissible power dissipation (W) at 25 °C ambient temperature W
1/0UF2020	600 × 250 × 138	682 × 332 × 205	41	11
1/0UF2120	600 × 250 × 138	682 × 332 × 205	41	11
2/0UF2020	600 × 500 × 138	682 × 582 × 205	58	22
2/0UF2120	600 × 500 × 138	682 × 582 × 205	58	22
1/2UF2020	900 × 250 × 138	982 × 332 × 205	55	16
1/2UF2120	900 × 250 × 138	982 × 332 × 205	55	16
2/2UF2020	900 × 500 × 138	982 × 582 × 205	80	32
2/2UF2120	900 × 500 × 138	982 × 582 × 205	80	32

Material + Decor A2 Class | Fire Resistance 30 Min.

1/0UF2021	600 × 250 × 118	682 × 332 × 205	49	9
1/0UF2121	600 × 250 × 118	682 × 332 × 205	49	9
2/0UF2021	600 × 500 × 118	682 × 582 × 205	70	19
2/0UF2121	600 × 500 × 118	682 × 582 × 205	70	19
1/2UF2021	900 × 250 × 118	982 × 332 × 205	67	14
1/2UF2121	900 × 250 × 118	982 × 332 × 205	67	14
2/2UF2021	900 × 500 × 118	982 × 582 × 205	99	28
2/2UF2121	900 × 500 × 118	982 × 582 × 205	99	28

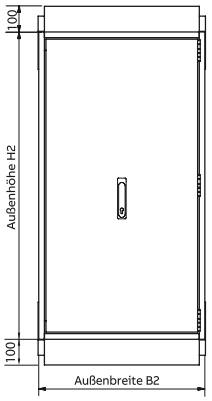
Material + Decor A2 Class | Fire Resistance 90 Min.

> Dimensions in mm

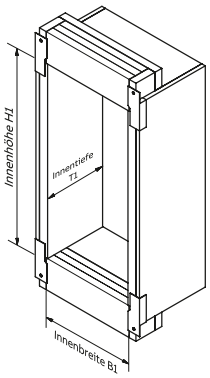
Subdistribution boards

Sheath housing/cooling shutters – Dimensions, weights, power loss

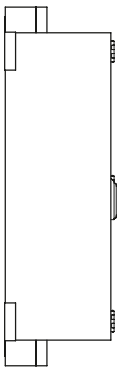
Front view



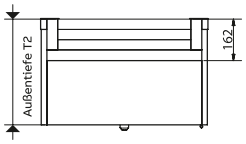
Internal view



Side view



Top view



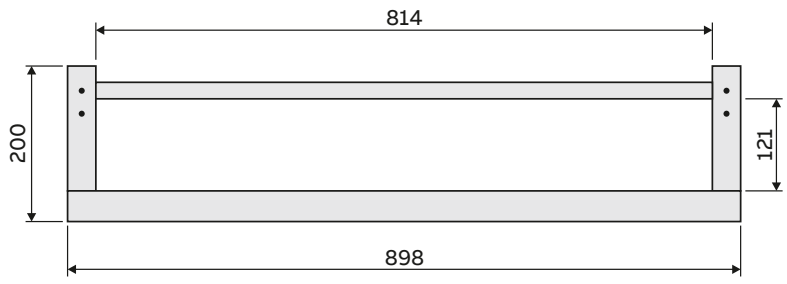
Type	Internal dimensions in mm H1 × W1 × D1	External dimensions in mm H2 × W2 × D2	Weight in kg	Permissible power dissipation (W) at 25 °C ambient temperature W
1/0MF302	754 x 504 x 240	898 x 648 x 312	95	27
1/1MF302	904 x 504 x 240	1048 x 648 x 312	105	31
2/1MF302	904 x 754 x 240	1048 x 989 x 312	132	41
1/3MF302	1204 x 504 x 240	1348 x 648 x 312	126	39

Material + Decor A2 Class

Fire Resistance 30 Min.

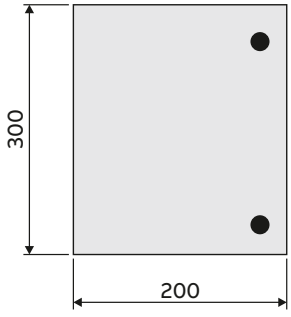
Cable sleeves
Top view

314 (BKF11)
548 (BKF21)
814 (BKF31)



398 (BKF11)
648 (BKF21)
898 (BKF31)

Side view

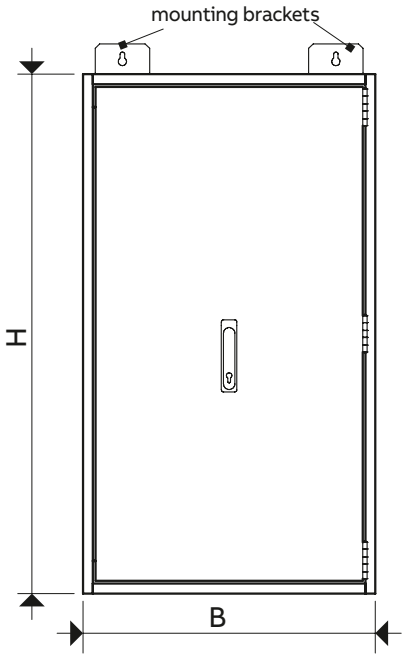


> Dimensions in mm

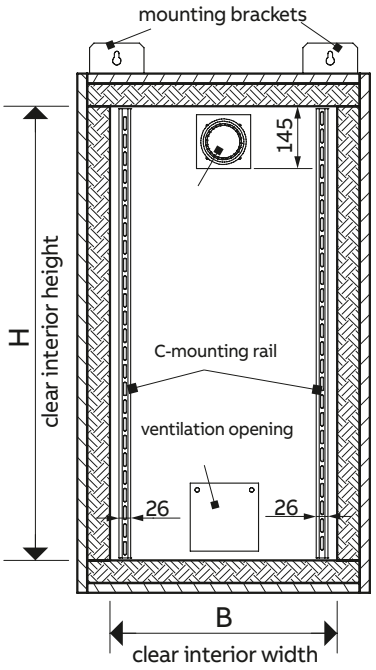
Subdistribution boards

Surface-mount wall housing – Dimensions, weights, power loss

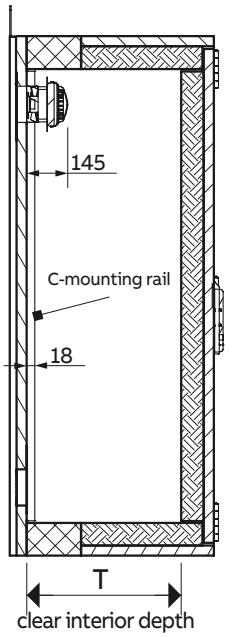
Front view



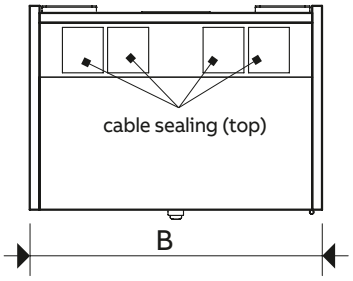
Internal view

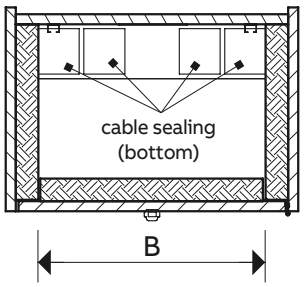


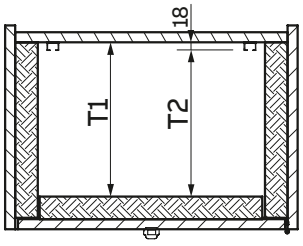
Side view



Top view







External depth of housing	349 mm
Internal depth of housing T1	240 mm
Usable internal depth T2	222 mm

> Dimensions in mm

Subdistribution boards

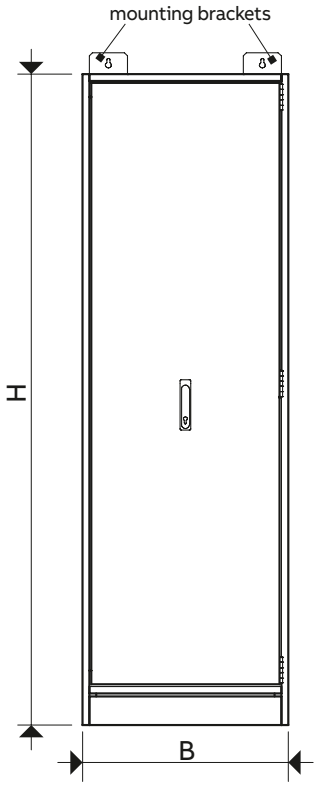
Surface-mount wall housing – Dimensions, weights, power loss

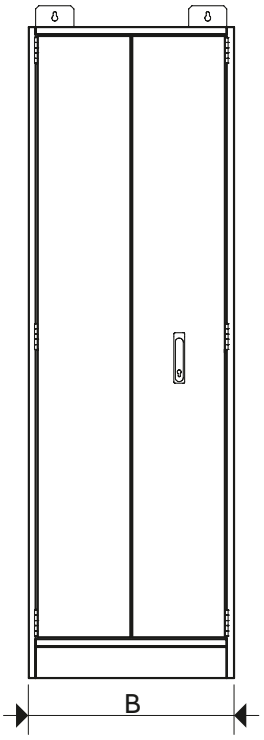
	External dimensions in mm	Internal dimensions in mm	Weight in kg	Power dissipation
Article	**H1 × W1 × D1**	**H2 × W2 × D2**		**Pv max. (W)**
1/00AF3 …	598 × 398 × 349	454 × 254 × 240	51	171
2/00AF3 …	598 × 648 × 349	454 × 504 × 240	71	185
1/0AF3 …	748 × 398 × 349	604 × 254 × 240	62	177
2/0AF3 …	748 × 648 × 349	604 × 504 × 240	85	195
1/1AF3 …	898 × 398 × 349	754 × 254 × 240	73	182
2/1AF3 …	898 × 648 × 349	754 × 504 × 240	99	205
1/2AF3 …	1048 × 398 × 349	904 × 254 × 240	83	188
2/2AF3 …	1048 × 648 × 349	904 × 504 × 240	114	214
1/3AF3 …	1198 × 398 × 349	1054 × 254 × 240	94	194
2/3AF3 …	1198 × 648 × 349	1054 × 504 × 240	128	224
3/3AF3 …	1198 × 898 × 349	1054 × 754 × 240	163	253
2/4AF3 …	1348 × 648 × 349	1204 × 504 × 240	143	233
2/5AF3 …	1498 × 648 × 349	1354 × 504 × 240	157	243

Subdistribution boards

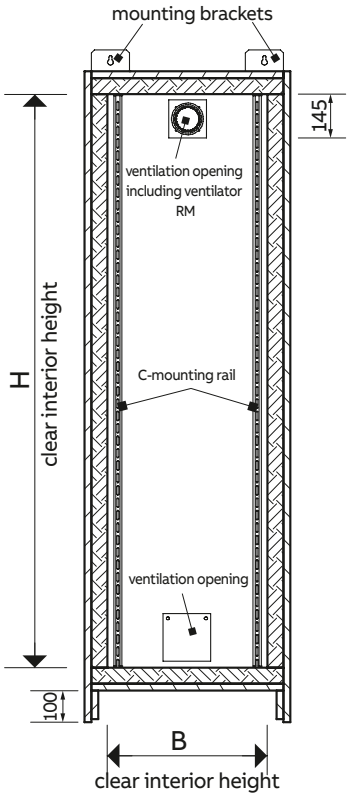
Standing housing – Dimensions, weights, power loss

Front view

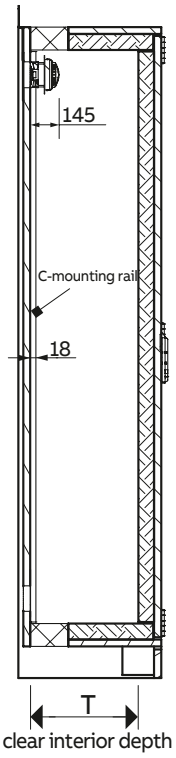




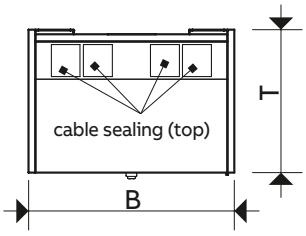
Internal view

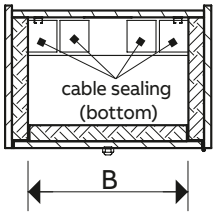


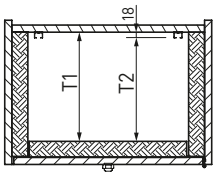
Side view



Top view







External depth of housing	349 mm
Internal depth of housing T1	240 mm
Usable internal depth T2	222 mm

> Dimensions in mm

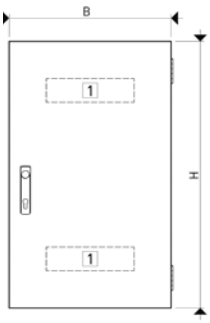
Subdistribution boards

Standing housing – Dimensions, weights, power loss

	External dimensions in mm	Internal dimensions in mm	Weight in kg	Power dissipation
Type	H1 × W1 × D1	H2 × W2 × D2		Pv max. (W)
1/8SF3 …	2048 × 398 × 349	1804 × 254 × 240	152	224
2/8SF3 …	2048 × 648 × 349	1804 × 504 × 240	206	272
3/8SF3 …	2048 × 898 × 349	1804 × 754 × 240	259	319
1/9SF3 …	2198 × 398 × 349	1954 × 254 × 240	163	229
2/9SF3 …	2198 × 648 × 349	1954 × 504 × 240	220	281
3/9SF3 …	2198 × 898 × 349	1954 × 754 × 240	278	333

Subdistribution boards

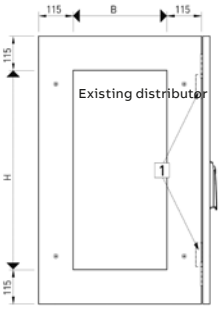
Facing doors – Dimensions



Front view



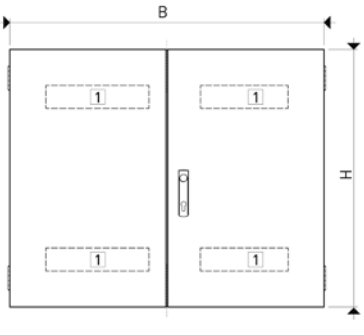
Side view



Mounting frame



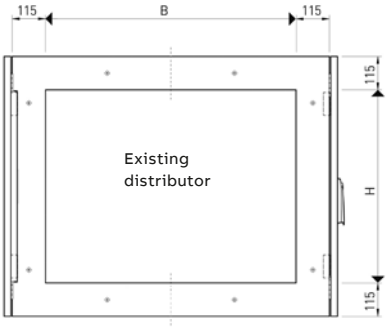
Top view



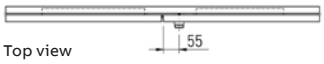
Front view



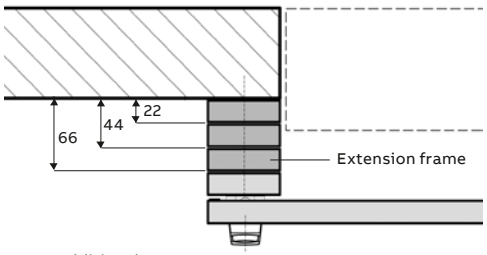
Side view



Mounting frame

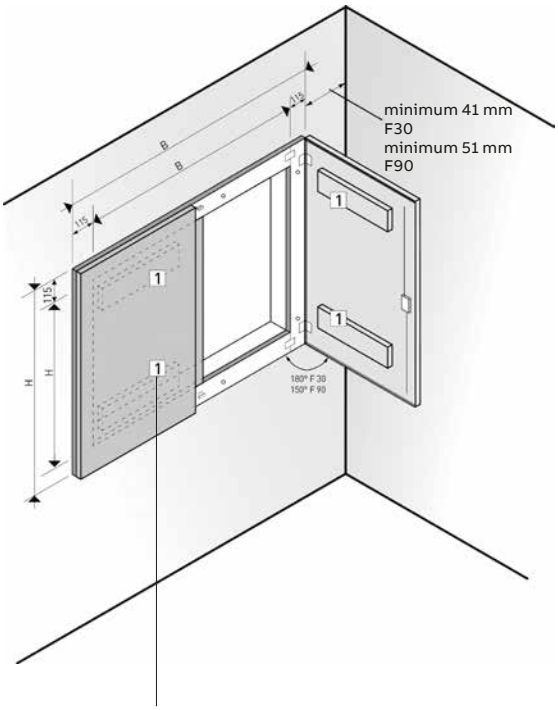


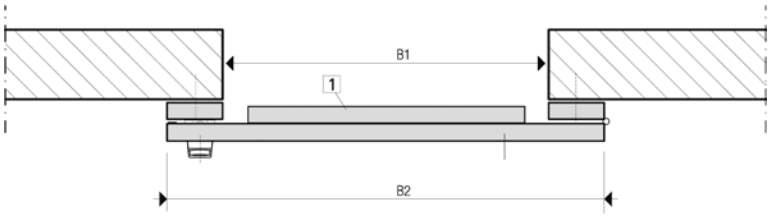
Top view



max. 3 additional extension frames (66 mm)

with 1-wing or 2-wing door





Facing door with mounting frame
Door swivels over the frame on the hinge side.
Leave at least 41/51 mm distance from the wall.

1 Bar above and below on the inside of the door, only for 30-minute design.

> Dimensions in mm

Subdistribution boards

Facing doors – Dimensions

	Internal dimensions in mm			External dimensions in mm		
Type	H1	B1	D1	H2	W2	D2
1/0VF10	665	345	0	895	575	51
2/0VF10	665	565	0	895	795	51
2/1VF10	815	565	0	1045	795	51
3/1VF10	815	815	0	1045	1045	51
2/2VF10	965	565	0	1195	795	51
3/2VF10	965	815	0	1195	1045	51
2/3VF10	1115	565	0	1345	795	51
3/3VF10	1115	815	0	1345	1045	51
2/4VF10	1265	565	0	1495	795	51
3/4VF10	1265	815	0	1495	1045	51
2/5VF10	1415	565	0	1645	795	51
3/5VF10	1415	815	0	1645	1045	51
2/8VF10	1865	565	0	2095	795	51
1/0VF11	665	345	22	895	545	71
2/0VF11	665	565	22	895	795	71
2/1VF11	815	565	22	1045	795	71
3/1VF11	815	815	22	1045	1045	71
2/2VF11	965	565	22	1195	795	71
3/2VF11	965	815	22	1195	1045	71
1/3VF11	1115	345	22	1345	575	71
2/3VF11	1115	565	22	1345	795	71
3/3VF11	1115	815	22	1345	1045	71
2/4VF11	1265	565	22	1495	795	71
3/4VF11	1265	815	22	1495	1045	71
2/8VF11	1865	565	22	2095	795	71
4/2VF20	965	1065	0	1195	1295	51
4/3VF20	1115	1065	0	1345	1295	51
4/4VF20	1265	1065	0	1495	1295	51
4/5VF20	1415	1065	0	1645	1295	51
4/8VF20	1865	1065	0	2095	1295	51
4/2VF21	965	1065	22	1195	1295	71
4/3VF21	1115	1065	22	1345	1295	71
4/4VF21	1265	1065	22	1495	1295	71
4/8VF21	1865	1065	22	2095	1295	71

Subdistribution boards

System pro E® energy
The complete cabinet system ...

The System pro E® energy range includes two types of cabinets and one internal configuration system.



System pro E® energy L
Tailored and proven wall mounted and floor standing sub distribution boards up to 800 A.

Delivered in flat kits, System pro E® energy L provides a protection degree up to IP43 (IP30 without the door).



System pro E® energy M
Monoblock cabinet with attachable side panels, available in both configurations: wall mounted and floor standing.

System pro E® energy M sub distribution boards provide a protection degree up to IP55 (IP30 without the door).



System pro E® energy Combi
The common internal configuration system facilitates the installation of a wide range of ABB Low Voltage devices based on its modular system, delivered in flat packs.

Subdistribution boards
System pro E® energy
Product benefits

Easy, Simple and Flexible

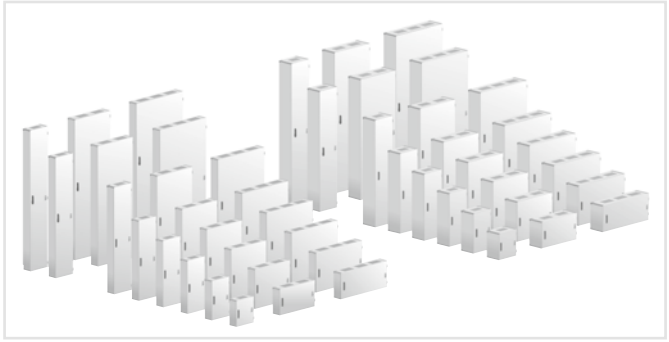
- Cabinets of 400, 600 and 800 mm width. The 800 mm wide cabinets can incorporate an integrated cable compartment.
- Heights available from 600 up to 2000 mm, always with a common depth of 250 mm, horizontal coupling of 2 or more cabinets possible
- Modular concept: all functional units in steps of 50mm in height
- The busbars can be assembled vertically or horizontally
- Only one type of tool is required for the assembly of the cabinets

Innovative cable entry and ease of installation
Several options provide the right solution for any kind of wiring application. System pro E® energy offers the options of cabinets with the top and bottom in different executions: plain with pre-knockouts for flanges, big opening.

The wide range of flange types provides the right solution for every application. The flanges can be attached without the need of tools. System pro E® energy offers unrestricted access during operation, expansion, maintenance and functional monitoring.

Plinth
The common plinth for System pro E® energy L and M has a height of 100 mm, and up to 3 of them can be stacked without any additional accessories.

The plinth consists of corner parts and lateral, front and back covers. Removing the front and back panels simplifies the panel's transportation and provides the required accessibility for the wiring in the final installation. The same applies to coupled cabinets, the removal of the internal lateral covers enables the cross-wiring between cabinets.



01



02



04



03



05

01 Complete range

02 Innovative cable entry

03 Easy assembly of plinth

04 Top and bottom cable entries

05 Easy assemble by one tool

Subdistribution boards
System pro E® energy
Product benefits

Quick to assemble

- Assembly can be done by a single person
- Tool-free snap-on system thanks to click-in supports for DIN-rails, mounting plates, busbar holders, etc.
- Pre-assembled handles with ¼ turn screws for cover plates
- System pro E® energy Combi provides a time-saving installation due to the hook-in technology. This quick assembly limits the numbers of screws.
- Guiding ledges in back panel for top and side panel fixation
- Generous wiring space, enough for vertical cable ducts of 80 mm width on each side
- Markings in the fixation profiles to quickly position the functional units and cover plates
- Frame allowing the removal of all cover plates at the same time
- Innovative flange technology with tool-free installation

Door ready to mount

- Common doors for System pro E® energy L and M
- Choose between plain and transparent doors for all cabinet widths
- PUR gasket to guarantee perfect closing and the protection degree
- 3 point locking system already mounted
- Easy and quick mounting without tools
- 130º opening angle
- Handle with several inserts available to adapt to the needs of each customer's individual requirements



01



04



02



05



03

01 Tool-free snap-on system thanks to click-in support / spring

02 Adjustable bracket

03 Removable cover

04 Pre-assembled cover locks with 1/4 turn lock.

05 Steel door and glass door ready for mounting

Subdistribution boards
System pro E® energy
Product benefits

Safe for users, reliable and sturdy

The combination of the System pro E® energy cabinets and ABB's low voltage devices are certified according to the standard IEC 61439-2 / -3 and IEC62208

Protection degree against dust and liquids:
- System pro E® energy L: up to IP43
- System pro E® energy M: up to IP55

Strong mechanical construction
- Back panel galvanized sheet steel 1.5mm thick
- Internal corner parts to fasten the external panels, the frame of the cover plates and to execute the horizontal coupling of the cabinets
- Vertical profiles to fasten the mounting plates and isolator mounted at the back panel providing additional rigidity
- External panels sheet steel, powder coated
- Optional horizontal reinforcement for coupled cabinets
- Internal segregation up to Form 2b
- Tempered glass for the transparent door



—
01



—
02

—
01 Easy assembly from side-by-side

—
02 Internal corner part

Subdistribution boards

System pro E® energy L

System overview





Back and side panels



Top and Bottom



Plinth



Integrated cable compartment



Functional units



Busbars



Door



Cable flanges

Subdistribution boards

System pro E® energy L

System overview

Cabinets: Back panel + Side panels
- Back panel, sendzimir zinc plated steel 1.5 mm
- Side panels, epoxy-polyester coated sheet steel 1.2 mm
- 4 internal corner parts
- Profiles to fix the functional units (mounting plates, DIN rail, busbar isolators...)
- Frame to fix the cover plates
- Required hardware

Extensions: Back panel + coupling profiles
- Back panel, sendzimir zinc plated steel 1.5 mm
- 4 internal corner parts
- Profiles to fix the functional units (mounting plate, DIN rail, busbar isolators...)
- Frame to fix the cover plates
- Coupling profiles and accessories
- Required hardware

Top & Bottom
2 different options:
- With a wide opening to maximize the entry surface
- Plain with knock-outs for cable flanges

The kit includes 1 unit of the selected top and bottom, with all the required fixation hardware.
It's required to order 2 top & bottom per cabinet.

Plinth
- 100 mm height
- Stackable up to 3: 300 mm, without accessories
- Front, back and side covers removable
- Easy to fix
- Hardware to fix to the cabinet included

Integrated cable compartment
Possible to add an integrated cable compartment in the 800mm wide cabinets
- Profiles and cover plates to build the integrated cable compartment

Interior fitting: Modular distribution panel system
- Pre-assembled quick mounting system to fix the isolators for the busbars, DIN-rails, mounting plates, covers, etc.
  See chapter for System pro E® energy Combi (page 317)

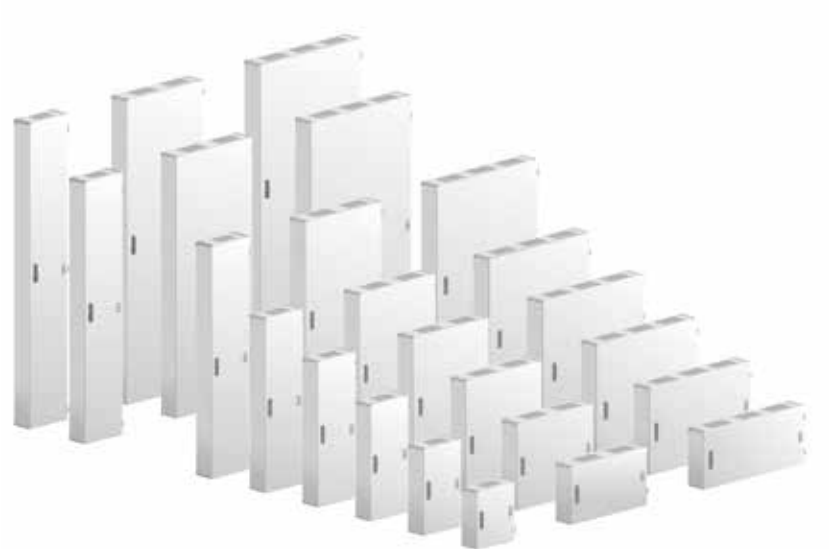
Plain or transparent doors
- 3 point locking system already mounted
- PUR gasket to guarantee perfect closing and the protection degree
- 130° opening angle
- Swing handle for 1 400 mm and higher doors
- Wide range of accessories

Plastic or metal flanges
- Wide choice of cable flanges
- Metal flanges for wide cable opening

Subdistribution boards

System pro E® energy L

System overview



System pro E® energy L

Cabinet type		Cabinet: backpanel + side panels			Extension: Back panel + horizontal coupling		
Depth		250 mm			250 mm		
Width		400	600	800	400	600	800
Height	600	–	■	■	■	■	■
	800	–	■	■	■	■	■
	1 000	–	■	■	■	■	■
	1 200	–	■	■	■	■	■
	1 400	–	■	■	■	■	■
	1 600	–	■	■	■	■	■
	1 800	–	■	■	■	■	■
	2 000	–	■	■	■	■	■

> Dimensions in mm

Subdistribution boards

System pro E® energy L

Technical specifications and product features

Technical specifications	
Standards / requirements	IEC 61439 -1/-2/-3* and IEC62208
Protection Class	Class I, earthed
Pollution degree	2
Segregation	Form 1 and Form 2
Degree of protection	IP43
	Without door IP30
Mechanical impact Strength	IK 07- knock outs
	IK 08 - without door, transparent door
	IK 09 - plain door & side panels
Conditions of installation	Indoor installation
	Ambient air temperature max. +40 °C
	Ambient air temperature min. -5 °C
	Operating temperature max. +55 °C
	Storage temperature max. +55 °C
	Storage temperature min. -40 °C
Rated current (I_n)	800 A
Rated operationa voltage (U_e)	415 V
Rated insulation voltage (U_i)	1 000 V
Rated short-circuit current (I_{cw})	32 kA/1s
Rated current of busbar systems	800 A in IP43

Product features		
	Housing and door	Color RAL 7035
	Rear panel & mounting profiles	Sendzimir zinc plated steel 1.5 mm
	Side, top and bottom panel	Epoxy-polyester coated sheet steel 1.2 mm
	Plain door	Epoxy-polyester coated sheet steel 1.5 mm
	Transparent door	Epoxy-polyester coated sheet steel 1.5 mm and safety glass 3 mm thick
	Cover plates	Epoxy-polyester coated sheet steel 1 mm
	Door opening angle: 130°	
	Doors with espagnolette closure, 3 points locking system	
	Doors for wall-mounted cabinets: with latch plate and 3 mm double bit pin	
	Doors for floor-standing cabinets: with swing handle and 3 mm double bit pin	
Assembly options	Prepared to be fitted with System Pro E® energy Combi modules and mounting plates	
Forms of delivery	Flat kits	

Subdistribution boards

System pro E® energy L

Selection table for wall and floor version System IP43, flatpack







Width = 400 mm

Height	No. Mod. DIN H= 150 mm	No. Mod. DIN H= 200 mm	Dimension Internal H×W×D (mm)	Dimension External H×W×D (mm)	Order Code Basic	Order Code Extention
600	4 row (48 Mod)	3 row (36 Mod)	600×329×193	649×384×250	Q843B406	Q843E406
800	5 row (60 Mod)	4 row (48 Mod)	800×329×193	849×384×250	Q843B408	Q843E408
1000	6 row (72 Mod)	5 row (60 Mod)	100×329×193	1049×384×250	Q843B410	Q843E410
1200	8 row (96 Mod)	6 row (72 Mod)	1200×329×193	1249×384×250	Q843B412	Q843E412
1400	9 row (108 Mod)	7 row (84 Mod)	1400×329×193	1449×384×250	Q843B414	Q843E414
1600	10 row (120 Mod)	8 row (96 Mod)	1600×329×193	1649×384×250	Q843B416	Q843E416
1800	12 row (144 Mod)	9 row (108 Mod)	1800×329×193	1849×384×250	Q843B418	Q843E418
2000	13 row (156 Mod)	10 row (120 Mod)	2000×329×193	2049×384×250	Q843B420	Q843E420

Width = 600 mm

Height	No. Mod. DIN H= 150 mm	No. Mod. DIN H= 200 mm	Dimension Internal H×W×D (mm)	Dimension External H×W×D (mm)	Order Code Basic	Order Code Extention
600	4 row (96 Mod)	3 row (72 Mod)	600×545×193	649×600×250	Q843B606	Q843E606
800	5 row (120 Mod)	4 row (96 Mod)	800×545×193	849×600×250	Q843B608	Q843E608
1000	6 row (144 Mod)	5 row (120 Mod)	1000×545×193	1049×600×250	Q843B610	Q843E610
1200	8 row (192 Mod)	6 row (144 Mod)	1200×545×193	1249×600×250	Q843B612	Q843E612
1400	9 row (216 Mod)	7 row (168 Mod)	1400×545×193	1449×600×250	Q843B614	Q843E614
1600	10 row (240 Mod)	8 row (192 Mod)	1600×545×193	1649×600×250	Q843B616	Q843E616
1800	12 row (288 Mod)	9 row (216 Mod)	1800×545×193	1849×600×250	Q843B618	Q843E618
2000	13 row (312 Mod)	10 row (240 Mod)	2000×545×193	2049×600×250	Q843B620	Q843E620

Width = 800 mm

Height	No. Mod. DIN H= 150 mm	No. Mod. DIN H= 200 mm	Dimension Internal H×W×D (mm)	Dimension External H×W×D (mm)	Order Code Basic	Order Code Extention
600	4 row (144 Mod)	3 row (108 Mod)	600×761×193	649×816×250	Q843B806	Q843E806
800	5 row (180 Mod)	4 row (144 Mod)	800×761×193	849×816×250	Q843B808	Q843E808
1000	6 row (216 Mod)	5 row (180 Mod)	1000×761×193	1049×816×250	Q843B810	Q843E810
1200	8 row (288 Mod)	6 row (216 Mod)	1200×761×193	1249×816×250	Q843B812	Q843E812
1400	9 row (324 Mod)	7 row (252 Mod)	1400×761×193	1449×816×250	Q843B814	Q843E814
1600	10 row (360 Mod)	8 row (288 Mod)	1600×761×193	1649×816×250	Q843B816	Q843E816
1800	12 row (432 Mod)	9 row (324 Mod)	1800×761×193	1849×816×250	Q843B818	Q843E818
2000	13 row (468 Mod)	10 row (360 Mod)	2000×761×193	2049×8160×250	Q843B820	Q843E820

Subdistribution boards

System pro E® energy L

Selection table for wall and floor version System IP43, flatpack








Top/Bottom Flanges	Type of flanges	Top/Bottom with big openings	Type of covers for Big openings	Plinth	Metal door	Glass door	Internal cable compartment
Q843T411	Page 18/336 Flanges	Q843T421	Page 18/337 Flanges	Q855P401	Q855D406	Q855G406	
					Q855D408	Q855G408	
					Q855D410	Q855G410	
					Q855D412	Q855G412	
					Q855D414	Q855G414	
					Q855D416	Q855G416	
					Q855D418	Q855G418	
					Q855D420	Q855G420	

Top/Bottom Flanges	Type of flanges	Top/Bottom with big openings	Type of covers for Big openings	Plinth	Metal door	Glass door	Internal cable compartment
Q843T611	Page 18/336 Flanges	Q843T621	Page 18/337 Flanges	Q855P601	Q855D606	Q855G606	
					Q855D608	Q855G608	
					Q855D610	Q855G610	
					Q855D612	Q855G612	
					Q855D614	Q855G614	
					Q855D616	Q855G616	
					Q855D618	Q855G618	
					Q855D620	Q855G620	

Top/Bottom Flanges	Type of flanges	Top/Bottom with big openings	Type of covers for Big openings	Plinth	Metal door	Glass door	Internal cable compartment
Q843T811	Page 18/336 Flanges	Q843T821	Page 18/337 Flanges	Q855P801	Q855D806	Q855G806	Q830I206
					Q855D808	Q855G808	Q830I208
					Q855D810	Q855G810	Q830I210
					Q855D812	Q855G812	Q830I212
					Q855D814	Q855G814	Q830I214
					Q855D816	Q855G816	Q830I216
					Q855D818	Q855G818	Q830I218
					Q855D820	Q855G820	Q830I220

Subdistribution boards

System pro E® energy L

Order codes



Cabinets: Back panel + Side panels

- Back panel
- Side panels
- 4 corner parts

profiles to fix the functional units (mounting plates, DIN rail, busbar isolators...

Cabinets: Back panel + side panels						
Width in mm	400		600		800	
Height in mm	Type code	Order code	Type code	Order code	Type code	Order code
600	Q843B406	1SZE430800B0010	Q843B606	1SZE430800B0090	Q843B806	1SZE430800B0170
800	Q843B408	1SZE430800B0020	Q843B608	1SZE430800B0100	Q843B808	1SZE430800B0180
1000	Q843B410	1SZE430800B0030	Q843B610	1SZE430800B0110	Q843B810	1SZE430800B0190
1200	Q843B412	1SZE430800B0040	Q843B612	1SZE430800B0120	Q843B812	1SZE430800B0200
1400	Q843B414	1SZE430800B0050	Q843B614	1SZE430800B0130	Q843B814	1SZE430800B0210
1600	Q843B416	1SZE430800B0060	Q843B616	1SZE430800B0140	Q843B816	1SZE430800B0220
1800	Q843B418	1SZE430800B0070	Q843B618	1SZE430800B0150	Q843B818	1SZE430800B0230
2000	Q843B420	1SZE430800B0080	Q843B620	1SZE430800B0160	Q843B820	1SZE430800B0240



Extensions: Back panel + coupling profiles

- Back panel
- 4 internal corner parts
- Profiles to fix the functional units (mounting plates, DIN rail, busbar isolators...)
- Coupling profiles and accessories

Extensions: Back panel + coupling						
Width in mm	400		600		800	
Height in mm	Type code	Order code	Type code	Order code	Type code	Order code
600	Q843E406	1SZE430801B0010	Q843E606	1SZE430801B0090	Q843E806	1SZE430801B0170
800	Q843E408	1SZE430801B0020	Q843E608	1SZE430801B0100	Q843E808	1SZE430801B0180
1000	Q843E410	1SZE430801B0030	Q843E610	1SZE430801B0110	Q843E810	1SZE430801B0190
1200	Q843E412	1SZE430801B0040	Q843E612	1SZE430801B0120	Q843E812	1SZE430801B0200
1400	Q843E414	1SZE430801B0050	Q843E614	1SZE430801B0130	Q843E814	1SZE430801B0210
1600	Q843E416	1SZE430801B0060	Q843E616	1SZE430801B0140	Q843E816	1SZE430801B0220
1800	Q843E418	1SZE430801B0070	Q843E618	1SZE430801B0150	Q843E818	1SZE430801B0230
2000	Q843E420	1SZE430801B0080	Q843E620	1SZE430801B0160	Q843E820	1SZE430801B0240



Top & Bottom

2 different options:

- Plain with knock-outs for cable flanges
- With a wide opening to maximize the entry surface

The kit includes 1 unit of the selected top and bottom, with all the required fixation hardware

It's required to order 2 top & bottom per cabinet

Top & Bottom									
Cabinet width, in mm	400			600			800		
	Type code	Order code	Units	Type code	Order code	Units	Type code	Order code	Units
Plain with pre-knock outs	Q843T411	1SZE430802B0010	1	Q843T611	1SZE430802B0011	1	Q843T811	1SZE430802B0012	1
BIG Entry space	Q843T421	1SZE430802B0013	1	Q843T621	1SZE430802B0014	1	Q843T821	1SZE430802B0015	1

Subdistribution boards

System pro E® energy L

Order codes



Integrated cable compartment

Possible to add an integrated cable compartment in the 800mm wide cabinets

- Profiles and cover plates to build the integrated cable compartment

Integrated cable compartment		
Width in mm	**800**	
Height in mm	**Type code**	**Order code**
600	Q830I206	1SZE990930B0010
800	Q830I208	1SZE990930B0020
1000	Q830I210	1SZE990930B0030
1200	Q830I212	1SZE990930B0040
1400	Q830I214	1SZE990930B0050
1600	Q830I216	1SZE990930B0060
1800	Q830I218	1SZE990930B0070
2000	Q830I220	1SZE990930B0080



Plinth

- 100 mm height
- Stackable up to 3: 300 mm, without accessories
- Front, back and side covers removable
- Harder to fix to the cabinet included

Plinth						
Cabinet width in mm	**400**		**600**		**800**	
	Type code	**Order code**	**Type code**	**Order code**	**Type code**	**Order code**
Plinth 100 mm height	Q855P401	1SZE990940B0010	Q855P601	1SZE990940B0020	Q855P801	1SZE990940B0030

Subdistribution boards

System pro E® energy L

Order codes



Plain or transparent doors

- 3 point locking system already mounted
- PUR gasket to guarantee perfect closing and the protection degree
- 130° opening angle
- PUR gasket
- Swing handle for 1 400 mm and higher doors
- Wide range of accessories
- 2 time hinged up to 1200 mm, 3 times from 1400 mm

Doors plain

Width in mm		400		600		800
Cabinet height, in mm	Type code	Order code	Type code	Order code	Type code	Order code
600	Q855D406	1SZE990910B0010	Q855D606	1SZE990910B0090	Q855D806	1SZE990910B0170
800	Q855D408	1SZE990910B0020	Q855D608	1SZE990910B0100	Q855D808	1SZE990910B0180
1000	Q855D410	1SZE990910B0030	Q855D610	1SZE990910B0110	Q855D810	1SZE990910B0190
1200	Q855D412	1SZE990910B0040	Q855D612	1SZE990910B0120	Q855D812	1SZE990910B0200
1400	Q855D414	1SZE990910B0050	Q855D614	1SZE990910B0130	Q855D814	1SZE990910B0210
1600	Q855D416	1SZE990910B0060	Q855D616	1SZE990910B0140	Q855D816	1SZE990910B0220
1800	Q855D418	1SZE990910B0070	Q855D618	1SZE990910B0150	Q855D818	1SZE990910B0230
2000	Q855D420	1SZE990910B0080	Q855D620	1SZE990910B0160	Q855D820	1SZE990910B0240



Doors transparent

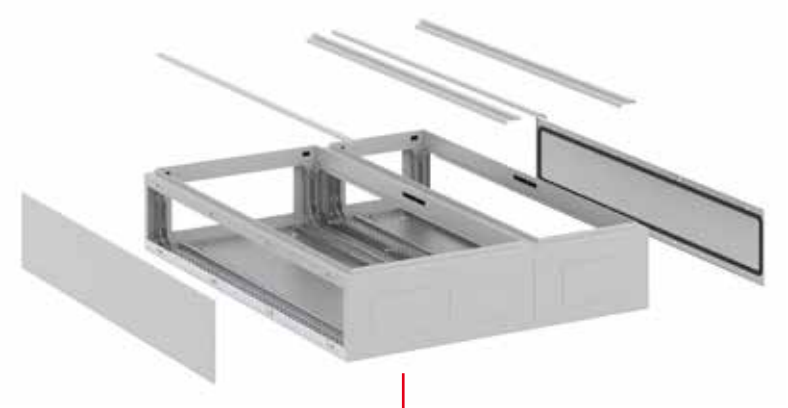
Width in mm		400		600		800
Cabinet height, in mm	Type code	Order code	Type code	Order code	Type code	Order code
600	Q855G406	1SZE990920B0010	Q855G606	1SZE990920B0090	Q855G806	1SZE990920B0170
800	Q855G408	1SZE990920B0020	Q855G608	1SZE990920B0100	Q855G808	1SZE990920B0180
1000	Q855G410	1SZE990920B0030	Q855G610	1SZE990920B0110	Q855G810	1SZE990920B0190
1200	Q855G412	1SZE990920B0040	Q855G612	1SZE990920B0120	Q855G812	1SZE990920B0200
1400	Q855G414	1SZE990920B0050	Q855G614	1SZE990920B0130	Q855G814	1SZE990920B0210
1600	Q855G416	1SZE990920B0060	Q855G616	1SZE990920B0140	Q855G816	1SZE990920B0220
1800	Q855G418	1SZE990920B0070	Q855G618	1SZE990920B0150	Q855G818	1SZE990920B0230
2000	Q855G420	1SZE990920B0080	Q855G620	1SZE990920B0160	Q855G820	1SZE990920B0240

Notes

Subdistribution boards

System pro E® energy M

System overview





Monobloc cabinet + Side walls + Plinth + Integrated cable compartment + Functional units



Busbars + Door + Cable flanges

Subdistribution boards

System pro E® energy M

System overview

Cabinets: Monoblock
- open sides
- Top: openings for flanges (400 mm) or wide opening (600 & 800 mm)
- Bottom: plain with pre-knock outs for flanges
- Included the frame for the cover plates
- Cabinet can be rotated 180°

Side panels
- Delivered in 2 units.
- Only required 1 kit per panel (combination of several cabinets coupled horizontaly)

Integrated cable compartment
Possible to add an integrated cable compartment in the 800mm wide cabinets
- Profiles and coverplates to build the integrated cable compartment.

Interior fitting: functional units and busbars
Kits to fix the isolators for the busbars, the DIN rails, mounting plates...and the covers
See the chapter for System pro E® energy Combi

Plinth
- 100 mm height
- Stackable up to 3: 300 mm, without accessories
- Front, back and side covers removable
- Easy to fix
- Hardware to fix to the cabinet included

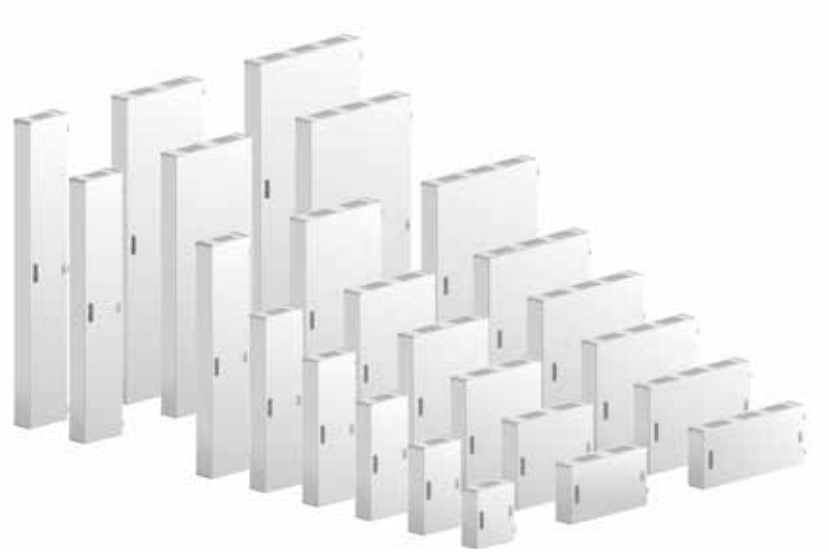
Door
Plain or transparent
- Same doors for IP43 and IP55 cabinets
- 3 points locking system already mounted and PUR gasket
- Mount without tools
- 130° opening angle
- Swing handle for 1 400 mm and higher doors
- Wide range of inserts as accessories

Flanges
Plastic or metal. Same for IP43 and IP55
- Several cable flanges.
- Metal flanges for wide cable opening

Subdistribution boards

System pro E® energy M

System overview



System pro E® energy M

Cabinet type		Cabinet: Monobloc enclosure with open sides		
Depth		250 mm		
Width		400	600	800
Height	600	■	■	–
	800	■	■	–
	1 000	■	■	■
	1 200	■	■	■
	1 400	■	■	■
	1 600	■	■	■
	1 800	■	■	■
	2 000	■	■	■

> Dimensions in mm

Subdistribution boards

System pro E® energy M

Technical specifications and product features

Technical specifications	
Standards / requirements	IEC 61439 -1/-2/-3* and IEC62208
Protection Class	Class I, earthed
Pollution degree	2
Segregation	Form 1 and Form 2
Degree of protection	IP55
	Without door IP30
Mechanical impact Strength	IK 07 - knock outs
	IK 08 - without door, transparent door
	IK 09 - plain door, side panels
Conditions of installation	Indoor installation
	Ambient air temperature max. +40 °C
	Ambient air temperature min. -5 °C
	Operating temperature max. +55 °C
	Storage temperature max. +55 °C
	Storage temperature min. -40 °C
Rated current (I_n)	800 A
Rated operationa voltage (U_e)	415 V
Rated insulation voltage (U_i)	1 000 V
Rated short-circuit current (I_{cw})	32 kA/1s
Rated current of busbar systems	800 A in IP43

Product features		
	Housing and door	Color RAL 7035
	Cabinet	Epoxy-polyester coated sheet steel 1.5 mm
	Plain door	Epoxy-polyester coated sheet steel 1.5 mm
	Side panels and top & bottom	Epoxy-polyester coated sheet steel 1.25 mm
	Transparent door	Epoxy-polyester coated sheet steel 1.5 mm and safety glass 3 mm thick
	Cover plates	Epoxy-polyester coated sheet steel 1 mm
	Door opening angle: 130°	
	Doors with espagnolette closure, 3 points locking system	
	Doors for wall-mounting cabinets: with latch plate and 3 mm double bit pin	
	Doors for floor-standing cabinets: with swing handle and 3 mm double bit pin	
Assembly options	Prepared to be fitted with System Pro E® energy Combi modules and mounting plates	
Forms of delivery	Monobloc enclosure with open sides	

Subdistribution boards

System pro E® energy M

Selection table for wall and floor version System IP55, Monoblock






Width = 390 mm

Height	No. Mod. DIN	No. Mod. DIN	Dimension Internal	Dimension External (without plinth)	Order Code	Order Code
	H= 150 mm	H= 200 mm	H×W×D (mm)	H×W×D (mm)	Basic	Side walls
600	4 row (48 Mod)	3 row (36 Mod)	600×329×193	649×396×250	Q855B406	Q855S006
800	5 row (60 Mod)	4 row (48 Mod)	800×329×193	849×396×250	Q855B408	Q855S008
1000	6 row (72 Mod)	5 row (60 Mod)	100×329×193	1049×396×250	Q855B410	Q855S010
1200	8 row (96 Mod)	6 row (72 Mod)	1200×329×193	1249×396×250	Q855B412	Q855S012
1400	9 row (108 Mod)	7 row (84 Mod)	1400×329×193	1449×396×250	Q855B414	Q855S014
1600	10 row (120 Mod)	8 row (96 Mod)	1600×329×193	1649×396×250	Q855B416	Q855S016
1800	12 row (144 Mod)	9 row (108 Mod)	1800×329×193	1849×396×250	Q855B418	Q855S018
2000	13 row (156 Mod)	10 row (120 Mod)	2000×329×193	2049×396×250	Q855B420	Q855S020

Width = 600 mm

Height	No. Mod. DIN	No. Mod. DIN	Dimension Internal	Dimension External (without plinth)	Order Code	Order Code
	H= 150 mm	H= 200 mm	H×W×D (mm)	H×W×D (mm)	Basic	Side walls
600	4 row (96 Mod)	3 row (72 Mod)	600×545×193	649×612×250	Q855B606	Q855S006
800	5 row (120 Mod)	4 row (96 Mod)	800×545×193	849×612×250	Q855B608	Q855S008
1000	6 row (144 Mod)	5 row (120 Mod)	1000×545×193	1049×612×250	Q855B610	Q855S010
1200	8 row (192 Mod)	6 row (144 Mod)	1200×545×193	1249×612×250	Q855B612	Q855S012
1400	9 row (216 Mod)	7 row (168 Mod)	1400×545×193	1449×612×250	Q855B614	Q855S014
1600	10 row (240 Mod)	8 row (192 Mod)	1600×545×193	1649×612×250	Q855B616	Q855S016
1800	12 row (288 Mod)	9 row (216 Mod)	1800×545×193	1849×612×250	Q855B618	Q855S018
2000	13 row (312 Mod)	10 row (240 Mod)	2000×545×193	2049×612×250	Q855B620	Q855S020

Width = 800 mm

Height	No. Mod. DIN	No. Mod. DIN	Dimension Internal	Dimension External (without plinth)	Order Code	Order Code
	H= 150 mm	H= 200 mm	H×W×D (mm)	H×W×D (mm)	Basic	Side walls
600	4 row (144 Mod)	3 row (108 Mod)	600×761×193	649×828×250	Q855B806	Q855S006
800	5 row (180 Mod)	4 row (144 Mod)	800×761×193	849×828×250	Q855B808	Q855S008
1000	6 row (216 Mod)	5 row (180 Mod)	1000×761×193	1049×828×250	Q855B810	Q855S010
1200	8 row (288 Mod)	6 row (216 Mod)	1200×761×193	1249×828×250	Q855B812	Q855S012
1400	9 row (324 Mod)	7 row (252 Mod)	1400×761×193	1449×828×250	Q855B814	Q855S014
1600	10 row (360 Mod)	8 row (288 Mod)	1600×761×193	1649×828×250	Q855B816	Q855S016
1800	12 row (432 Mod)	9 row (324 Mod)	1800×761×193	1849×828×250	Q855B818	Q855S018
2000	13 row (468 Mod)	10 row (360 Mod)	2000×761×193	2049×828×250	Q855D820	Q855S020

Subdistribution boards

System pro E® energy M

Selection table for wall and floor version System IP55, Monoblock








Coupling	Type of flanges	Type of flanges	Plinth	Metal door	Glass door	Internal cable compartment
Q855E00W — Q855E00F	Page 18/336 Flanges	Page 18/337 Flanges	Q855P401	Q855D406	Q855G406	
				Q855D408	Q855G408	
				Q855D410	Q855G410	
				Q855D412	Q855G412	
				Q855D414	Q855G414	
				Q855D416	Q855G416	
				Q855D418	Q855G418	
				Q855D420	Q855G420	

Coupling	Type of flanges	Type of flanges	Plinth	Metal door	Glass door	Internal cable compartment
Q855E00W — Q855E00F	Page 18/336 Flanges	Page 18/337 Flanges	Q855P601	Q855D606	Q855G606	
				Q855D608	Q855G608	
				Q855D610	Q855G610	
				Q855D612	Q855G612	
				Q855D614	Q855G614	
				Q855D616	Q855G616	
				Q855D618	Q855G618	
				Q855D620	Q855G620	

Coupling	Type of flanges	Type of flanges	Plinth	Metal door	Glass door	Internal cable compartment
Q855E00W — Q855E00F	Page 18/336 Flanges	Page 18/337 Flanges	Q855P801	Q855D806	Q855G806	Q830I206
				Q855D808	Q855G808	Q830I208
				Q855D810	Q855G810	Q830I210
				Q855D812	Q855G812	Q830I212
				Q855D814	Q855G814	Q830I214
				Q855D816	Q855G816	Q830I216
				Q855D818	Q855G818	Q830I218
				Q855D820	Q855G820	Q830I220

Subdistribution boards

System pro E® energy M

Order codes



Cabinets: Monobloc enclosures with open sides

- Top: Open / Bottom: closed, pre-knock outs
- Included profiles to fix the functional units (mounting plate, DIN rail, busbar isolators...)
- Included profile to fix the cover plates
- The cabinet can be rotated 180°

Cabinets: Monobloc enclosures with open sides

Width in mm		400		600		800
Height in mm	Type code	Order code	Type code	Order code	Type code	Order code
600	Q855B406	1SZE550800B0010	Q855B606	1SZE550800B0090	Q855B806	1SZE550800B0170
800	Q855B408	1SZE550800B0020	Q855B608	1SZE550800B0100	Q855B808	1SZE550800B0180
1000	Q855B410	1SZE550800B0030	Q855B610	1SZE550800B0110	Q855B810	1SZE550800B0190
1200	Q855B412	1SZE550800B0040	Q855B612	1SZE550800B0120	Q855B812	1SZE550800B0200
1400	Q855B414	1SZE550800B0050	Q855B614	1SZE550800B0130	Q855B814	1SZE550800B0210
1600	Q855B416	1SZE550800B0060	Q855B616	1SZE550800B0140	Q855B816	1SZE550800B0220
1800	Q855B418	1SZE550800B0070	Q855B618	1SZE550800B0150	Q855B818	1SZE550800B0230
2000	Q855B420	1SZE550800B0080	Q855B620	1SZE550800B0160	Q855B820	1SZE550800B0240

Side walls System pro E® energy M

- Set of 2 side walls
- Ready to be mounted
- Screws included

Side walls System pro E® energy M

Height in mm	Type code	Order code
600	Q855S006	1SZE550801B0010
800	Q855S008	1SZE550801B0020
1000	Q855S010	1SZE550801B0030
1200	Q855S012	1SZE550801B0040
1400	Q855S014	1SZE550801B0050
1600	Q855S016	1SZE550801B0060
1800	Q855S018	1SZE550801B0070
2000	Q855S020	1SZE550801B0080



Connection set for Side-by-Side connection IP55

- Brackets
- Gasket

Connection set for Side-by-Side connection IP55

Height in mm	Type code	Order code
600 - 1200 mm	Q855E00W	1SZE550800B0310
1400 - 2000 mm	Q855E00F	1SZE550800B0320

Subdistribution boards

System pro E® energy M

Order codes



Integrated cable compartment

Possible to add an integrated cable compartment in the 800mm wide cabinets

- Profiles and cover plates to build the integrated cable compartment

Integrated cable compartment		
Width in mm		**800**
Height in mm	**Type code**	**Order code**
600	Q830I206	1SZE990930B0010
800	Q830I208	1SZE990930B0020
1000	Q830I210	1SZE990930B0030
1200	Q830I212	1SZE990930B0040
1400	Q830I214	1SZE990930B0050
1600	Q830I216	1SZE990930B0060
1800	Q830I218	1SZE990930B0070
2000	Q830I220	1SZE990930B0080



Plinth

- 100 mm height
- Stackable up to 3: 300 mm, without accessories
- Front, back and side covers removable
- Hardware to fix to the cabinet included

Plinth						
Cabinet width in mm		**400**		**600**		**800**
	Type code	**Order code**	**Type code**	**Order code**	**Type code**	**Order code**
Plinth 100 mm height	Q855P401	1SZE990940B0010	Q855P601	1SZE990940B0020	Q855P801	1SZE990940B0030

Subdistribution boards

System pro E® energy M

Order codes



Door

- Plain and transparent
- Same doors for IP43 and IP55 cabinets
- 3 points locking system for all the range
- Mount without tools
- 130° opening angle
- PUR gasket
- Swing handle for 1 400 mm and higher doors
- Wide range of insert as accessories

Doors plain

Width in mm		400		600		800
Cabinet height, in mm	Type code	Order code	Type code	Order code	Type code	Order code
600	Q855D406	1SZE990910B0010	Q855D606	1SZE990910B0090	Q855D806	1SZE990910B0170
800	Q855D408	1SZE990910B0020	Q855D608	1SZE990910B0100	Q855D808	1SZE990910B0180
1000	Q855D410	1SZE990910B0030	Q855D610	1SZE990910B0110	Q855D810	1SZE990910B0190
1200	Q855D412	1SZE990910B0040	Q855D612	1SZE990910B0120	Q855D812	1SZE990910B0200
1400	Q855D414	1SZE990910B0050	Q855D614	1SZE990910B0130	Q855D814	1SZE990910B0210
1600	Q855D416	1SZE990910B0060	Q855D616	1SZE990910B0140	Q855D816	1SZE990910B0220
1800	Q855D418	1SZE990910B0070	Q855D618	1SZE990910B0150	Q855D818	1SZE990910B0230
2000	Q855D420	1SZE990910B0080	Q855D620	1SZE990910B0160	Q855D820	1SZE990910B0240



Doors transparent

Width in mm		400		600		800
Cabinet height, in mm	Type code	Order code	Type code	Order code	Type code	Order code
600	Q855G406	1SZE990920B0010	Q855G606	1SZE990920B0090	Q855G806	1SZE990920B0170
800	Q855G408	1SZE990920B0020	Q855G608	1SZE990920B0100	Q855G808	1SZE990920B0180
1000	Q855G410	1SZE990920B0030	Q855G610	1SZE990920B0110	Q855G810	1SZE990920B0190
1200	Q855G412	1SZE990920B0040	Q855G612	1SZE990920B0120	Q855G812	1SZE990920B0200
1400	Q855G414	1SZE990920B0050	Q855G614	1SZE990920B0130	Q855G814	1SZE990920B0210
1600	Q855G416	1SZE990920B0060	Q855G616	1SZE990920B0140	Q855G816	1SZE990920B0220
1800	Q855G418	1SZE990920B0070	Q855G618	1SZE990920B0150	Q855G818	1SZE990920B0230
2000	Q855G420	1SZE990920B0080	Q855G620	1SZE990920B0160	Q855G820	1SZE990920B0240

Notes

Subdistribution boards

System pro E® energy L/M

Flanges



TZ101



TZ110



TZ111

TZ102



TZ103



TZ112



TZ104



TZ105



TZ107



TZ106

Article	Unit	Type	Order code
Membrane flange Material plastic			
With 52 cable sleeves 2 x 6 - 32,5 mm, 2 x 6 - 25 mm, 4 x 6 - 19 mm, 10 x 6 - 15 mm, 2 x 6 - 12 mm, 31 x 6 - 11 mm, 1 x 6 - 7 mm	1	TZ101	2CPX010450R9999
	10	TZ101P10	2CPX010451R9999
	100	TZ101P100	2CPX010826R9999
With 8 membrane entries For cables sections 8 x 13 – 34 mm	1	TZ110	2CPX010850R9999
	10	TZ110P10	2CPX010934R9999
With 12 membrane entries and 1 cable sleeve entry For cable diameter 1 x 14 to 54 mm, 3 x 13 to 34 mm, 3 x 13 to 26,5 mm, 4 x 5 to 21 mm, 1 x 6 to 15 mm	1	TZ111	2CPX010851R9999
	10	TZ111P10	2CPX010935R9999
Flanges for M-screw joints Material plastic			
1 x M63/M50, 2 x M32/M20, 5 x M25, 5 x M20	1	TZ102	2CPX010452R9999
	10	TZ102P10	2CPX010453R9999
4 x M20/M25, 18 x M20	1	TZ103	2CPX010454R9999
	10	TZ103P10	2CPX010455R9999
Flanges with cable sleeves Material plastic			
With 1 cable sleeve For cable diameter 1 x 14 to 68 mm	1	TZ112	2CPX010852R9999
With 2 cable sleeve For cable diameter 2 x 14 to 68 mm	1	TZ104	2CPX010456R9999
	10	TZ104P10	2CPX010932R9999
With 3 cable sleeve For cable diameter 3 x 14 to 54 mm	1	TZ105	2CPX010457R9999
	10	TZ105P10	2CPX010933R9999
Locking flanges			
Material plastic	1	TZ107	2CPX010460R9999
	10	TZ107P10	2CPX010461R9999
Material steel sheet For earthed cabinets	1	TZ106	2CPX010458R9999
	10	TZ106P10	2CPX010459R9999

Subdistribution boards

System pro E® energy L/M

Flanges

Flange for wide cable entry fitting flanges (type TZ), closed with pre-punch-out

	Article	Order details		Price	Pcs.
		Type code	Order code		
	Flange for wide cable entry				
	Cabinet width:				
	400 mm	Q855F421	1SZE990900B0011		1
	600 mm	Q855F621	1SZE990900B0021		1
	800 mm	Q855F821	1SZE990900B0031		1



Q855F421

Plain flange for wide cable entry

	Article	Order details		Price	Pcs.
		Type code	Order code		
	Flange for wide cable entry				
	Cabinet width:				
	400 mm	Q855F422	1SZE990900B0012		1
	600 mm	Q855F622	1SZE990900B0022		1
	800 mm	Q855F822	1SZE990900B0032		1



Q855F422

Plain flange for wide cable entry with M20 pre-punch-outs

	Article	Order details		Price	Pcs.
		Type code	Order code		
	Flange for wide cable entry				
	Cabinet width:				
	400 mm	Q855F423	1SZE990900B0013		1
	600 mm	Q855F623	1SZE990900B0023		1
	800 mm	Q855F823	1SZE990900B0033		1



Q855F423

Plain flange for wide cable entry with M40 pre-punch-outs

	Article	Order details		Price	Pcs.
		Type code	Order code		
	Flange for wide cable entry				
	Cabinet width:				
	400 mm	Q855F424	1SZE990900B0014		1
	600 mm	Q855F624	1SZE990900B0024		1
	800 mm	Q855F824	1SZE990900B0034		1



Q855F424

Subdistribution boards

System pro E® energy L/M

Accessories

	Article	Order details		Price	Pcs.
		Type code	Order code		
	Swivel handle and operating pins				
 ESAC1001	Swivel handle with double bit 3 mm*	ESAC1001	2CPX010900R9999		1
 ESAC1002	Double bit 3 mm*	ESAC1002	2CPX010901R9999		1
	Double bit 5 mm	ESAC1003	2CPX010902R9999		1
	Triangular 7 mm	ESAC1004	2CPX010903R9999		1
	Triangular 8 mm	ESAC1005	2CPX010904R9999		1
	Square 6 mm	ESAC1006	2CPX010905R9999		1
	Square 7 mm	ESAC1007	2CPX010906R9999		1
	Square 8 mm	ESAC1008	2CPX010907R9999		1
	EK333 and key	ESAC1009	2CPX010908R9999		1
	FIST type insert (FIAT)	ESAC1010	2CPX010909R9999		1
	FIAT key	ESAC1013	2CPX010912R9999		1
	Ronis 455 and key	ESAC1011	2CPX010910R9999		1
	Ronis 405 and key	ESAC1012	2CPX010911R9999		1
 ESAC1003					
 ESAC1004					
 ESAC1005					
 ESAC1006					
 ESAC1007					
 ESAC1008					
 ESAC1009					
 ESAC1010					
 ESAC1011					
 ESAC1013					
	Latch plates and operating pins				
 TZ517	For operating pin 3 mm (standard)* and 5 mm	TZ517	2CPX010926R9999		1
 TZ518	For triangular and square operating pin	TZ518	2CPX010927R9999		1
	Double bit 3 mm*	ZH130	2CPX060490R9999		1
	Double bit 5 mm	ZH131	2CPX060491R9999		1
	Triangular 7 mm	ZH132	2CPX060492R9999		1
	Triangular 8 mm	ZH133	2CPX060493R9999		1
	Square 6 mm	ZH134	2CPX060494R9999		1
	Square 7 mm	ZH135	2CPX060495R9999		1
	Square 8 mm	ZH136	2CPX060496R9999		1
	Daimler-Benz	ZH137	2CPX060497R9999		1
 ZH130					
 ZH132					
 ZH134					
 ZH137					

* Accessory included in the scope of delivery

Subdistribution boards

System pro E® energy L/M

Lock replacement parts

	Article	Order details		Price	Pcs.
		Type code	Order code		
 ZH91	**Universal key** Double bit 3 mm/5 mm Triangular 8 mm, square 6 mm/8 mm	ZH91	2CPX066091R9999		1
	Double bit 3 mm*	ZH160	2CPX060660R9999		1
	Double bit 5 mm	ZH161	2CPX060661R9999		1
	Triangular 7 mm	ZH157	2CPX060657R9999		1
	Triangular 8 mm	ZH158	2CPX060658R9999		1
	Square 6 mm	ZH162	2CPX060662R9999		1
	Square 7 mm	ZH163	2CPX060663R9999		1
	Square 8 mm	ZH164	2CPX060664R9999		1
	Daimler-Benz	ZH165	2CPX060665R9999		1
 ZH160 ZH157					
 ZH162 ZH165					
 ESAC2004	**Espagnolette closure***				
	Closure for door height 400 mm	ESAC2004	2CPX010913R9999		1
	Espagnolette closure height 600 mm	ESAC2006	2CPX010914R9999		1
	Espagnolette closure height 800 mm	ESAC2008	2CPX010915R9999		1
	Espagnolette closure height 1000 mm	ESAC2010	2CPX010916R9999		1
	Espagnolette closure height 1200 mm	ESAC2012	2CPX010917R9999		1
	Espagnolette closure height 1400 mm	ESAC2014	2CPX010918R9999		1
	Espagnolette closure height 1600 mm	ESAC2016	2CPX010919R9999		1
	Espagnolette closure height 1800 mm	ESAC2018	2CPX010920R9999		1
	Espagnolette closure height 2000 mm	ESAC2020	2CPX010921R9999		1
 ESAC2008					
 TZ511	**Espagnolette guide***	TZ511	2CPX010495R9999		1
 TZ501	**Shoe*** For espagnolette closure	TZ501	2CPX010485R9999		1

*Accessory included in the scope of delivery

Subdistribution boards

System pro E® energy L/M

General accessories

	Article	Order details		Price	Pcs.
		Type code	Order code		
 Q800R00P2	**Mounting brackets package 2**	Q800R00P2	1SZE990940B0130		2
 ESAC3003P4	**Transport lugs 4 pcs**	ESAC3003P4	2CPX078412R9999		4
	**Door earthing set** 6 mm² with 2x M6	QAW007000	1SZE990940B0120		1
	**Cover earthing set** Connection between interior fitting and structure 6 mm² with 2x M5	QAW007001	1SZE990940B0130		1
ZA6	**Document holder DIN A4** Self-adhesive with transparent sleeve and reinforced back	ZA6	2CPX038227R9999		1
		ZA6P10	2CPX062380R9999		10
	Self-adhesive with transparent sleeve	ZA61P10	2CPX062375R9999		10
 ZA5	**Document holder DIN A4** Self-adhesive	ZA13	2CPX038233R9999		1
		ZA13P10	2CPX062381R9999		10
	Document holder DIN A5 Self-adhesive	ZA5	2CPX038228R9999		1
		ZA5P10	2CPX062382R9999		10
 ZA123	**Document holder support plate**				
	For document holder ZA13, to screw on to the door strengthening profiles	ZA123	2CPX038471R9999		1
	For document holder ZA5, to screw on to the door strengthening profiles	ZA125	2CPX038472R9999		1

Subdistribution boards

System pro E® energy L/M

General accessories

	Article	Order details		Price	Pcs.
		Type code	Order code		
 TZ650	**Cabinet Light (LED with movement detector); 230 V–24 V**	TZ650	2CPX010972R9999		1
 TZ617P10	**Closingplug**	TZ617P10	2CPX010512R9999		10
ZL8	**Reinforcement coupled enclosures**				
	Cabinet width:				
	Reinf. c. enc. 600+400	Q800R6400	1SZE990940B0040		1
	Reinf. c. enc. 600+600/400+800	Q800R6600	1SZE990940B0050		1
	Reinf. c. enc. 600+400+600	Q800R6460	1SZE990940B0060		1
	Reinf. c. enc. 600+600+600/800+400+600	Q800R6660	1SZE990940B0070		1
	Reinf. c. enc. 800+600	Q800R8600	1SZE990940B0090		1
	Reinf. c. enc. 800+800	Q800R8800	1SZE990940B0100		1
	Reinf. c. enc. 800+400+800/600+600+800	Q800R8480	1SZE990940B0110		1
	**Horizontal support for faxation of cables**				
	Support horizontal fixation cables W400	QR4VBWS00	1SZE980120B0600		1
	Support horizontal fixation cables W600	QR6VBWS00	1SZE980120B0610		1
	Support horizontal fixation cables W800	QR8VBWS00	1SZE980120B0620		1

Subdistribution boards

System pro E® energy Combi - System overview

System pro E® energy L



System pro E® energy M



System pro E® energy Combi



Tmax breakers



OT breakers



DIN rail components



Standard covers



Covers for measuring instruments



Mounting plates

Internal form of separation



Busbar systems



Accessories

(The Right Module for every type of application)

Subdistribution boards

System pro E® energy Combi - Product benefits





One internal configuration system for all cabinets

All internal configuration and the busbar system for both systems (IP43 and IP55). The internal configuration up to 800 A.

Easy assembly / Spring mounting

- Assembly can be done by a single person
- Pre-assembled captive screws
- 1/4 turn screws for cover plates
- Click-in supports for functional units and busbar holders
- No tools needed
- Frame to remove all cover plates at once

Depth adjustable DIN-rail

DIN-rail can be adjusted in five depths:
- RCD, SPD, MCD S200
- MCB S750/S800
- XT1, XT3, ATS125
- terminal
- ATS-compact

Flexible in assembly, ease to combine

With its new mounting concept System pro E® combi provides more flexibility and access for installation and wiring. Placed horizontally on two trestles, makes the assembly and wiring very comfortable.







Subdistribution boards

System pro E® energy Combi

Product benefits



Easy cover handeling

Time-saving fixation and adjustment as well as the simple closure system with 1/4 turn quick-lock provides easy handling of the covers and standard earth connection. When using devices in the covers a safe earth connection is guaranteed through 6 mm² cable with ring shoes on both sides. The 90° opening angle of the hinge set ensures optimal accessibility.



Cabeling / wiring solution

The support for different dimensions of wiring ducts have the same level for horizontal and vertical usage. An additional profile for stabilization of wiring duct and for mounting wire holders is available.



KITS available for all XT-breakers

Modules for moulded case circuit breaker Tmax (XT1 - XT6), 3 and 4 pole versions, in horizontal and vertical position.



KITS for ATS, TruOne

Modules for automatic transfer switch (ATS), in vertical position up to 800 A.

Optimal accessibility and ease of installation

The removable frame as standard gives the possibility to remove all covers in one handling and provides quick access.



Form of internal seperation (up to 2b)

For the busbar sytem behind the device area is a horizontal transparent partition available. To separate the busbar system in external cable container it is possible to use a vertical separation.

Subdistribution boards

System pro E® energy Combi

Modules for moulded case circuit breaker Tmax, horizontal



QB3H62000



QB4H82000

Module for:

- Tmax breaker horizontal 3-/4-pole
- Unequipped set for ABB Tmax as an incoming or outgoing breaker

Content:

- Mounting plate of sheet steel with cut-outs (for fixed version with level operation with front Terminals)
- Support to fix to the rear panel profiles
- Cover plate with cut-outs (3-/4- Pole) breaker
- Cover plate with 1/4 turn quick-lock

	Type of device					Order details			
Width mm	Type code	I_n max A	Numbers of breakers	Numbers of poles	Height mm	Type code	Order code	Price	Pcs.
600	Tmax XT1	160	1	3/4	200	QB1H62000	1SZE980040B0330		1
	Tmax XT2	160	1	3/4	200	QB2H62000	1SZE980040B0340		1
	Tmax XT3	250	1	3/4	200	QB3H62000	1SZE980040B0350		1
	Tmax XT4	250	1	3/4	200	QB4H62000	1SZE980040B0360		1
	Tmax XT5	630	1	3/4	300	QB5H63000	1SZE980040B0370		1
	Tmax XT6	800	1	3/4	400	QB6H64000	1SZE980040B0380		1
	Tmax T5	630	1	3/4	300	QB5H630TM	1SZE980040B0390		1
	Tmax T6	800	1	3/4	400	QB6H640TM	1SZE980040B0400		1
800	Tmax XT1	160	1	3/4	200	QB1H82000	1SZE980040B0410		1
	Tmax XT2	160	1	3/4	200	QB2H82000	1SZE980040B0420		1
	Tmax XT3	250	1	3/4	200	QB3H82000	1SZE980040B0430		1
	Tmax XT4	250	1	3/4	200	QB4H82000	1SZE980040B0440		1
	Tmax XT5	630	1	3/4	300	QB5H83000	1SZE980040B0450		1
	Tmax XT6	800	1	3/4	400	QB6H84000	1SZE980040B0460		1
	Tmax T5	630	1	3/4	300	QB5H830TM	1SZE980040B0470		1
	Tmax T6	800	1	3/4	400	QB6H840TM	1SZE980040B0480		1

For 3 pole breakers please order accessory flange code AD3305 XT1 3P flange mounted on plate 1STQ009216A0000, AD3306 XT2 3P flange mounted on plate 1STQ009217A0000, AD3307 XT3 3P flange mounted on plate 1STQ009218A0000, AD3305 XT4 3P flange mounted on plate 1STQ009219A0000.



QB3H620RC



QB4H820RC

Module for:

- Tmax breaker horizontal 4-pole + RC
- Unequipped set for ABB Tmax as an incoming or outgoing breaker

Content:

- Mounting plate made of sheet steel with cut-outs (for fixed version with level operation with front Terminals)
- Support to fix to the rear panel profiles
- Cover plates with cut-outs (for 4 pole breaker + RC) and 1/4 turn quick-lock

	Type of device					Order details			
Width mm	Type code	I_n max A	Numbers of breakers	Numbers of poles	Height mm	Type code	Order code	Price	Pcs.
600	Tmax XT1	160	1	3/4	200	QB1H620RC	1SZE980040B0690		1
	Tmax XT2	160	1	3/4	200	QB2H620RC	1SZE980040B0700		1
	Tmax XT3	250	1	3/4	200	QB3H620RC	1SZE980040B0710		1
	Tmax XT4	250	1	3/4	200	QB4H620RC	1SZE980040B0720		1
	Tmax XT5	630	1	3/4	300	QB5H630RC	1SZE980040B0730		1
	Tmax XT6	800	1	3/4	400	QB6H640RC	1SZE980040B0740		1
	Tmax T5	630	1	3/4	300	QB5H630TR	1SZE980040B0750		1
800	Tmax XT1	160	1	3/4	200	QB1H820RC	1SZE980040B0770		1
	Tmax XT2	160	1	3/4	200	QB2H820RC	1SZE980040B0780		1
	Tmax XT3	250	1	3/4	200	QB3H820RC	1SZE980040B0790		1
	Tmax XT4	250	1	3/4	200	QB4H820RC	1SZE980040B0800		1
	Tmax XT5	630	1	3/4	300	QB5H830RC	1SZE980040B0810		1
	Tmax XT6	800	1	3/4	400	QB6H840RC	1SZE980040B0820		1
	Tmax T5	630	1	3/4	300	QB5H830TR	1SZE980040B0830		1

Subdistribution boards

System pro E® energy Combi

Modules for moulded case circuit breaker Tmax, vertical



QB3V43000



QB5V84500

Module for:

- Tmax breaker vertical 3-/4-pole
- Unequipped set for ABB Tmax as an incomer or outgoing breaker

Content:

- Mounting plate of sheet steel with cut-outs (for fixed version with level operation with front Terminals)
- Support to fix to the rear panel profiles
- Cover plates with cut-outs and 1/4 turn quick-lock

	Type of device					Order details			
Width mm	Type code	I_n max A	Numbers of breakers	Numbers of poles	Height mm	Type code	Order code	Price	Pcs.
400	Tmax XT1	160	1	3/4	300	QB1V43000	1SZE980040B0010		1
	Tmax XT2	160	1	3/4	300	QB2V43000	1SZE980040B0020		1
	Tmax XT3	250	1	3/4	300	QB3V43000	1SZE980040B0030		1
	Tmax XT4	250	1	3/4	300	QB4V43000	1SZE980040B0040		1
	Tmax XT5	630	1	3/4	450	QB5V44500	1SZE980040B0050		1
	Tmax T5	630	1	3/4	450	QB5V445TM	1SZE980040B0070		1
600	Tmax XT1	160	1	3/4	300	QB1V63000	1SZE980040B0090		1
	Tmax XT2	160	1	3/4	300	QB2V63000	1SZE980040B0100		1
	Tmax XT3	250	1	3/4	300	QB3V63000	1SZE980040B0110		1
	Tmax XT4	250	1	3/4	300	QB4V63000	1SZE980040B0120		1
	Tmax XT5	630	1	3/4	450	QB5V64500	1SZE980040B0130		1
	Tmax XT6	800	1	3/4	450	QB6V64500	1SZE980040B0140		1
	Tmax T5	630	1	3/4	450	QB5V645TM	1SZE980040B0150		1
	Tmax T6	800	1	3/4	450	QB6V645TM	1SZE980040B0160		1
800	Tmax XT1	160	1	3/4	300	QB1V83000	1SZE980040B0170		1
	Tmax XT2	160	1	3/4	300	QB2V83000	1SZE980040B0180		1
	Tmax XT3	250	1	3/4	300	QB3V83000	1SZE980040B0190		1
	Tmax XT4	250	1	3/4	300	QB4V83000	1SZE980040B0200		1
	Tmax XT5	630	1	3/4	450	QB5V84500	1SZE980040B0210		1
	Tmax XT6	800	1	3/4	450	QB6V84500	1SZE980040B0220		1
	Tmax T5	630	1	3/4	450	QB5V845TM	1SZE980040B0230		1
	Tmax T6	800	1	3/4	450	QB6V845TM	1SZE980040B0240		1

For 3 pole breakers please order accessory flange code AD3305 XT1 3P flange mounted on plate 1STQ009216A0000, AD3306 XT2 3P flange mounted on plate 1STQ009217A0000, AD3307 XT3 3P flange mounted on plate 1STQ009218A0000, AD3305 XT4 3P flange mounted on plate 1STQ009219A0000.

Subdistribution boards

System pro E® energy Combi

Modules for moulded case circuit breaker Tmax + RC sel. vertical



QB4V435RC



QB5V845RC

Module for:

- Tmax breaker vertical 4-pole + RC sel.
- Unequipped set for ABB Tmax as an incomer or outgoing breaker

Content:

- Mounting plate of sheet steel with cut-outs (for fixed version with level operation with front Terminals)
- Support to fix to the rear panel profiles
- Cover plates with cut-outs (for 4 pole breaker + RC) and 1/4 turn quick-lock

Type of device						Order details			
Width mm	Type code	I_n max A	Numbers of breakers	Numbers of poles	Height mm	Type code	Order code	Price	Pcs.
400	Tmax XT1	160	1	4	300	QB1V430RC	1SZE980040B0490		1
	Tmax XT2	160	1	4	350	QB2V435RC	1SZE980040B0500		1
	Tmax XT3	250	1	4	350	QB3V435RC	1SZE980040B0510		1
	Tmax XT4	250	1	4	350	QB4V435RC	1SZE980040B0520		1
	Tmax XT5	630	1	4	450	QB5V445RC	1SZE980040B0530		1
	Tmax T5	630	1	4	450	QB5V445TR	1SZE980040B0540		1
600	Tmax XT1	160	1	4	300	QB1V630RC	1SZE980040B0550		1
	Tmax XT2	160	1	4	350	QB2V635RC	1SZE980040B0560		1
	Tmax XT3	250	1	4	350	QB3V635RC	1SZE980040B0570		1
	Tmax XT4	250	1	4	350	QB4V635RC	1SZE980040B0580		1
	Tmax XT5	630	1	4	450	QB5V645RC	1SZE980040B0590		1
	Tmax T5	630	1	4	450	QB5V645TR	1SZE980040B0610		1
800	Tmax XT1	160	1	4	300	QB1V830RC	1SZE980040B0620		1
	Tmax XT2	160	1	4	350	QB2V835RC	1SZE980040B0630		1
	Tmax XT3	250	1	4	350	QB3V835RC	1SZE980040B0640		1
	Tmax XT4	250	1	4	350	QB4V835RC	1SZE980040B0650		1
	Tmax XT5	630	1	4	450	QB5V845RC	1SZE980040B0660		1
	Tmax T5	630	1	4	450	QB5V845TR	1SZE980040B0680		1

Subdistribution boards

System pro E® energy Combi

Modules for multiple moulded case circuit breaker Tmax, vertical



QB3V63003



QB3V83004

Module for:

- Multiple Tmax breaker vertical 3-/4-pole (side-by-side)
- Unequipped set for ABB Tmax as an incomer or outgoing breaker

Content:

- Mounting plate of sheet steel with cut-outs (for fixed version with level operation and front Terminals)
- Support to fix to the rear panel profiles
- Cover plate with cut-outs and 1/4 turn quick-lock

	Type of device					Order details			
Width mm	Type code	I_n max A	Numbers of breakers	Numbers of poles	Height mm	Type code	Order code	Price	Pcs.
600	Tmax XT1	160	3	3/4	300	QB1V63003	1SZE980040B0250		1
	Tmax XT2	160	3	3/4	300	QB2V63003	1SZE980040B0260		1
	Tmax XT3	250	3	3/4	300	QB3V63003	1SZE980040B0270		1
	Tmax XT4	250	3	3/4	300	QB4V63003	1SZE980040B0280		1
800	Tmax XT1	160	4	3/4	300	QB1V83004	1SZE980040B0290		1
	Tmax XT2	160	4	3/4	300	QB2V83004	1SZE980040B0300		1
	Tmax XT3	250	4	3/4	300	QB3V83004	1SZE980040B0310		1
	Tmax XT4	250	4	3/4	300	QB4V83004	1SZE980040B0320		1

For 3 pole breakers please order accessory flange code AD3305 XT1 3P flange mounted on plate 1STQ009216A0000, AD3306 XT2 3P flange mounted on plate 1STQ009217A0000, AD3307 XT3 3P flange mounted on plate 1STQ009218A0000, AD3305 XT4 3P flange mounted on plate 1STQ009219A0000.



QDS1B6300

Breaker module for:

- Unequipped module for XT2 4 pole + RC sel.
- DIN rail adjustable
- Cover slotted
- Breaker positioned symmetrical behind the cover

Content:

- DIN rail is fixed on a mounting bracket
- DIN rail is double DIN, made of aluminium
- On the back-side it is possible to use Unifix L
- 1/4 turn quick-lock

Additional information						Order details			
Width mm	Height mm	I_n max A	Space units (SU)	DIN-rail distance	Numbers of rows	Type code	Order code	Price	Pcs.
600	300	250	24	300	1	QDS1B6300	1SZE980020B0170		1
800	300	250	36	300	1	QDS1B8300	1SZE980020B0180		1

Subdistribution boards

System pro E® energy Combi

Modules for switch disconnector OT, horizontal



QS4H63500



QS4H83500

Module for:

- Switch disconnector 3-/4-pole (horizontal)
- Unequipped set for ABB switch disconnector (OT…E03/04) as an incomer or outgoing switch

Content:

- Mounting plate of sheet steel with cut-outs and fixing points
- Support to fix to the rear panel profiles
- Cover plate with cut-outs for rotary handle in top of the center (Handle on one side of the switch)
- 1/4 turn quick-lock

Important:

- No possibility to use busbar system behind modules of OT630 and OT800

Width mm	Type of device				Height mm	Order details		Price	Pcs.
	Type code	I_n max A	Numbers of breakers	Numbers of poles		Type code	Order code		
400	OT200, OT250	400	1	3/4	350	QS4H43500	1SZE980050B0180		1
600	OT200, OT250 OT315, OT400	400	1	3/4	350	QS4H63500	1SZE980050B0010		1
	OT630, OT800	800	1	3/4	500	QS8H65000	1SZE980050B0020		1
800	OT200, OT250 OT315, OT400	400	1	3/4	350	QS4H83500	1SZE980050B0030		1
	OT630, OT800	800	1	3/4	500	QS8H85000	1SZE980050B0040		1

Subdistribution boards

System pro E® energy Combi

Modules for switch disconnector OT, vertical



QS4V435HL



QS4V635HL



QS4V835HL

Module for:
- Switch disconnector 3-/4-pole (vertical) handle left
- Unequipped set for ABB switch disconnector (OT…E03/04) as an incomer or outgoing switch

Content:
- Mounting plate of sheet steel with cut-outs and fixing points
- Support to fix to the rear panel profiles
- Cover plate with cut-outs for rotary handle left (Handle on one side of the switch)
- 1/4 turn quick-lock

Important:
- No possibility to use busbar system behind modules of OT630 and OT800

Width mm	Height mm	For device I_n max A	Type code	Numbers of breakers	Numbers of poles	Order details Type code	Order code	Price	Pcs.
400	350	400	OT200, OT250 OT315, OT400	1	3/4	QS4V435HL	1SZE980050B0050		1
600	350	400	OT200, OT250 OT315, OT400	1	3/4	QS4V635HL	1SZE980050B0060		1
	500	800	OT630, OT800	1	3/4	QS8V635HL	1SZE980050B0070		
800	350	400	OT200, OT250 OT315, OT400	1	3/4	QS4V835HL	1SZE980050B0080		1
	500	800	OT630, OT800	1	3/4	QS8V835HL	1SZE980050B0090		1



QS4V435HM



QS4V635HM



QS8V835HM

Module for:
- Switch disconnector 3-/4-pole (vertical) handle middle/center
- Unequipped set for ABB switch disconnector (OT…E21/E22) as an incommer or outgoing switch

Content:
- Mounting plate of sheet steel with cut-outs and fixing points
- Support to fix to the rear panel profiles
- Cover plate with cut-outs for rotary handle center
- 1/4 turn quick-lock

Important:
- No possibility to use busbar system behind modules of OT630 and OT800

Width mm	Height mm	For device I_n max A	Type code	Numbers of breakers	Numbers of poles	Order details Type code	Order code	Price	Pcs.
400	350	400	OT200, OT250 OT315, OT400	1	3/4	QS4V435HM	1SZE980050B0100		1
600	350	400	OT200, OT250 OT315, OT400	1	3/4	QS4V635HM	1SZE980050B0110		1
		800	OT630, OT800	1	3/4	QS8V635HM	1SZE980050B0120		
800	350	400	OT200, OT250 OT315, OT400	1	3/4	QS4V835HM	1SZE980050B0130		1
		800	OT630, OT800	1	3/4	QS8V835HM	1SZE980050B0140		1

Subdistribution boards

System pro E® energy Combi

Modules for automatic transfer switch (ATS), vertical



QL4V66000



QL8V80600

Module for:

- Automatic transfer switch 3-/4-pole (vertical)
- Unequipped set for ABB ATS (TruONE)

Content:

- Mounting plate made of sheet steel with cut-outs and fixing points
- Support to fix to the rear panel profiles
- Cover plate with cut-outs for programming port module
- 1/4 turn quick-lock

Important:

- No possibility to use busbar system behind modules

		For device				Order details			
Width mm	Height mm	I_n max A	Type code	Numbers of breakers	Numbers of poles	Type code	Order code	Price	Pcs.
600	600	400	OXB200, OXB250 OXB315, OXB400	1	3/4	QL4V66000	1SZE980050B0150		1
800	600	400	OXB200, OXB250 OXB315, OXB400	1	3/4	QL4V86000	1SZE980050B0160		1
		800	OXB500, OXB630, OXB800	1	3/4	QL8V86000	1SZE980050B0170		1

Subdistribution boards

System pro E® energy Combi

Module with slotted covers + DIN-rail



QDS161500

Slotted covers for:
- DIN-rail components
- Rail distance 150 mm

Content:
- Slotted closed
- Unequipped module (Double DIN rail included)
- DIN rail fixed height
- 1/4 turn quick-lock

Additional information						Order details			
Width mm	Height mm	I_n max A	Space units (SU)	DIN-rail distance	Numbers of rows	Type code	Order code	Price	Pcs.
400	150	160	12	150	1	QDS141500	1SZE980020B0010		1
	200	160	12	150	1	QDS142000	1SZE980020B0020		1
	300	160	12	150	1	QDS143000	1SZE980020B0030		1
	300	160	12	150	2	QDS243000	1SZE980020B0040		1
600	150	160	24	150	1	QDS161500	1SZE980020B0050		1
	200	160	24	150	1	QDS162000	1SZE980020B0060		1
	300	160	24	150	1	QDS163000	1SZE980020B0070		1
	300	160	24	150	2	QDS263000	1SZE980020B0080		1
800	150	160	36	150	1	QDS181500	1SZE980020B0090		1
	200	160	36	150	1	QDS182000	1SZE980020B0100		1
	300	160	36	150	1	QDS183000	1SZE980020B0110		1
	300	160	36	150	2	QDS283000	1SZE980020B0120		1



QUS163000

DIN rail module for Unifix H:
- Unequipped module for Unifix H
- Fixed on a mounting bracket
- Rail distance 300 mm
- Unifix H not included

Content:
- Slotted cover
- 1/4 turn quick-lock

Additional information						Order details			
Width mm	Height mm	I_n max A	Space units (SU)	DIN-rail distance	Numbers of rows	Type code	Order code	Price	Pcs.
600	300	250	24	300	1	QUS163000	1SZE980020B0140		1
800	300	250	36	300	1	QUS183000	1SZE980020B0150		1



QDS16300A

DIN rail module for ATS Compact
- Unequiped module for ATS Compact (S750/S800/XT1/S200, SPD, OVR,..)
- Mounted on adjustable bracket
- Rail distance 300 mm
- Combination with Unifix L possible due to double DIN (Unifix not included)

Additional information				Order details			
Width mm	Height mm	Space units (SU)	DIN-rail distance	Type code	Order code	Price	Pcs.
600	300	24	300	QDS16300A	1SZE980020B0400		1
800	300	36	300	QDS18300A	1SZE980020B0410		1

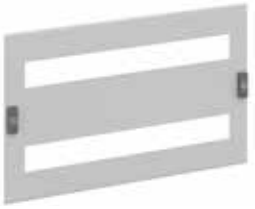
Subdistribution boards

System pro E® energy Combi

Slotted covers



QCS141501



QCS263001

Slotted covers for:
- DIN-rail components
- Distance between slots 150 mm

Content:
- Slotted cover
- Unequipped cover (no DIN-rail included)
- 1/4 turn quick-lock

Important:
- DIN-rail needs to be ordered separately (see below)

Additional information						Order details			
Width mm	Height mm	I_n max A	Space units (SU)	DIN-rail distance	Numbers of rows	Type code	Order code	Price	Pcs.
400	150	160	12	150	1	QCS141501	1SZE980020B0190		1
	200	160	12	150	1	QCS142001	1SZE980010B0460		
	300	160	12	150	1	QCS143001	1SZE980020B0200		1
	300	160	12	150	2	QCS243001	1SZE980020B0210		1
600	150	160	24	150	1	QCS161501	1SZE980020B0240		1
	200	160	24	150	1	QCS162001	1SZE980010B0470		
	300	160	24	150	1	QCS163001	1SZE980020B0250		1
	300	160	24	150	2	QCS263001	1SZE980020B0260		1
800	150	160	36	150	1	QCS181501	1SZE980020B0290		1
	200	160	36	150	1	QCS182001	1SZE980010B0480		
	300	160	36	150	1	QCS183001	1SZE980020B0300		1
	300	160	36	150	2	QCS283001	1SZE980020B0310		1
Packaging									
400	150	160	12	150	1	QCS1415P1	1SZE980020B0340		10
	300	160	12	150	2	QCS2430P1	1SZE980020B0350		10
600	150	160	24	150	1	QCS1615P1	1SZE980020B0360		10
	300	160	24	150	2	QCS2630P1	1SZE980020B0370		10
800	150	160	36	150	1	QCS1815P1	1SZE980020B0380		10
	300	160	36	150	2	QCS2830P1	1SZE980020B0390		10



QT0283000

Covers for Terminals:
- Blind covers with DIN-rails
- DIN-rail (double DIN)

Content:
- Cover
- DIN rail (double DIN) mounted on the backplate

Additional information						Order details			
Width mm	Height mm	I_n max A	Space units (SU)	DIN-rail distance	Number of DIN-rails	Type code	Order code	Price	Pcs.
400	150			150	1	QT0141500	1SZE980030B0010		1
	200			200	1	QT0142000	1SZE980030B0020		1
	300			300	1	QT0143000	1SZE980030B0030		1
	300			150	2	QT0243000	1SZE980030B0040		1
600	150			150	1	QT0161500	1SZE980030B0050		1
	200			200	1	QT0162000	1SZE980030B0060		1
	300			300	1	QT0163000	1SZE980030B0070		1
	300			150	2	QT0263000	1SZE980030B0080		1
800	150			150	1	QT0181500	1SZE980030B0090		1
	200			200	1	QT0182000	1SZE980030B0100		1
	300			300	1	QT0183000	1SZE980030B0110		1
	300			150	2	QT0283000	1SZE980030B0120		1

Subdistribution boards

System pro E® energy Combi

DIN-rails



QAD012000

DIN-rail for Slotted covers:
- DIN rail (Double DIN)
- Mounted on fixed bracket

Content:
- Double DIN
- Bracket with support to fix to the rear Panel profile
- Unequipped DIN-rail for Pro-M products (S200, MCB, RCD, SPD, OVR,.. UNIFIX-L)
- DIN rail made of aluminium

Additional information				Order details			
Width mm	Quantity	I_n max A	Space units (SU)	Type code	Order code	Price	Pcs.
400	1		12	QAD001000	1SZE980150B0070		1
	10		12	QAD0010P1	1SZE980150B0100		10
600	1		24	QAD002000	1SZE980150B0080		1
	10		24	QAD0020P1	1SZE980150B0110		10
800	1		36	QAD003000	1SZE980150B0090		1
	10		36	QAD0030P1	1SZE980150B0120		10

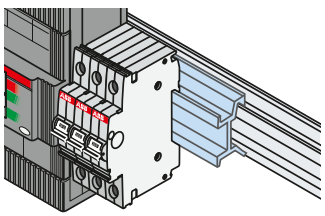


QADF011000

DIN-rail for Slotted covers or closed covers:
- DIN rail (Double DIN)
- Mounted on Adjustable bracket

Content:
- Double DIN (Unifix-L can be mounted)
- Bracket adjustable in 3 depths
- Bracket with support to fix to the rear Panel profile
- Unequipped DIN-rail for, System pro M S200, OT switch up to OT160 (front level) T-max (XT1, XT3) ATS125 (3-4 Pole) version (back level)
- Second and third level of bracket can be used for Terminals behind blind cover
- DIN rail made of aluminium

Additional information				Order details			
Width mm	Quantity	I_n max A	Space units (SU)	Type code	Order code	Price	Pcs.
400	1		12	QAD011000	1SZE980150B0130		1
	10		12	QAD0110P1	1SZE980150B0160		10
600	1		24	QAD012000	1SZE980150B0140		1
	10		24	QAD0120P1	1SZE980150B0170		10
800	1		36	QAD013000	1SZE980150B0150		1
	10		36	QAD0130P1	1SZE980150B0180		10



Article	Width in mm	Order details		Pcs.
		Type	Order code	
Depth adapters Enables the depth of miniature circuit-breakers to be adapted to that of moulded-case circuit-breakers mounted on the same DIN rail. Depth adapters for Tmax XT1-XT3	600	AP6000	1STQ008202A0000	1

Subdistribution boards

System pro E® energy Combi

DIN-rails



QAD031000

DIN-rail :
- DIN rail (Double DIN)
- Mounted on the back plate

Content:
- Double DIN
- Screws incl. for mounting on the back plate
- DIN rail made of aluminium

Additional information			Order details			
Width mm	I_n max A	Space units (SU)	Type code	Order code	Price	Pcs.
400		12	QAD031000	1SZE980150B0220		1
		12	QAD0310P1	1SZE980150B0250		10
600		24	QAD032000	1SZE980150B0230		1
		24	QAD0320P1	1SZE980150B0260		10
800		36	QAD033000	1SZE980150B0240		1
		36	QAD0330P1	1SZE980150B0270		10



QAW0010P2

Description	Order details			
	Type code	Order code	Price	Pcs.
Support universal, for horizontal installation For a DIN-rail or cable fastening rail or earth busbar max. 20x5 mm, for fix mounting material is metal	QAW0010P2	1SZE980150B0010		2
	QAW0010P5	1SZE980150B0015		50

Article	Use for...	Unit	Type	Order code
 ED47	**Cover** As a view shutter for wire guidance in the wire holder ED44 and ED45, 1 m long	1	ED47	2CPX039309R9999
 ZA1P5	**Blanking plates** For 12 space units, breakable Color RAL 7035	5	ZA1P5	2CPX062384R9999
		50	ZA1P50	2CPX062378R9999
	Running meter Color RAL 7035	1	ZA2	2CPX038231R9999
		20	ZA2P20	2CPX062379R9999

Subdistribution boards

System pro E® energy Combi

Closed covers

Content:
- Cover closed
- 1/4 turn quick-lock

Important:
- Height 500 mm and bigger have double 1/4 turn quick-lock



QCC043001



QCC064001



QCC086001

Width mm	Height mm	Order details Type code	Order code	Price	Pcs.
400	50	QCC040501	1SZE980010B0010		1
	100	QCC041001	1SZE980010B0020		1
	150	QCC041501	1SZE980010B0030		1
	200	QCC042001	1SZE980010B0040		1
	250	QCC042501	1SZE980010B0050		1
	300	QCC043001	1SZE980010B0060		1
	350	QCC043501	1SZE980010B0065		1
	400	QCC044001	1SZE980010B0070		1
	500	QCC045001	1SZE980010B0080		1
	600	QCC046001	1SZE980010B0090		1
	800	QCC048001	1SZE980010B0100		1
	900	QCC049001	1SZE980010B0110		1
600	50	QCC060501	1SZE980010B0120		1
	100	QCC061001	1SZE980010B0130		1
	150	QCC061501	1SZE980010B0140		1
	200	QCC062001	1SZE980010B0150		1
	250	QCC062501	1SZE980010B0160		1
	300	QCC063001	1SZE980010B0170		1
	350	QCC063501	1SZE980010B0175		1
	400	QCC064001	1SZE980010B0180		1
	500	QCC065001	1SZE980010B0190		1
	600	QCC066001	1SZE980010B0200		1
	800	QCC068001	1SZE980010B0210		1
	900	QCC069001	1SZE980010B0220		1
800	50	QCC080501	1SZE980010B0230		1
	100	QCC081001	1SZE980010B0240		1
	150	QCC081501	1SZE980010B0250		1
	200	QCC082001	1SZE980010B0260		1
	250	QCC082501	1SZE980010B0270		1
	300	QCC083001	1SZE980010B0280		1
	350	QCC083501	1SZE980010B0285		1
	400	QCC084001	1SZE980010B0290		1
	500	QCC085001	1SZE980010B0300		1
	600	QCC086001	1SZE980010B0310		1
	800	QCC088001	1SZE980010B0320		1
	900	QCC089001	1SZE980010B0330		1
Multi packaging					
400	150	QCC0415P1	1SZE980010B0400		10
	200	QCC0420P1	1SZE980010B0410		10
600	150	QCC0615P1	1SZE980010B0420		10
	200	QCC0620P1	1SZE980010B0430		10
800	150	QCC0815P1	1SZE980010B0440		10
	200	QCC0820P1	1SZE980010B0450		10

Subdistribution boards

System pro E® energy Combi

Mounting plates



QM0403000



QM0609000

Mounting plates for:

- For fixing directly on the profile
- Distance between mounting plate and cover is 170 mm

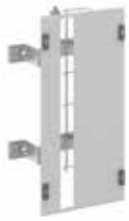
Content:

- Mounting plate
- Support to fix to the rear panel profiles
- Cover plate not included

		Usable messurements				Order details			
Width mm	Height mm	Width mm	Height mm	Distance to covers mm	Distance to door mm	Type code	Order code	Price	Pcs.
400	300	146	269	172	56	QM0403000	1SZE980070B0010		1
600	150	362	139	172	56	QM0601500	1SZE980070B0020		1
	200	362	189	172	56	QM0602000	1SZE980070B0030		1
	250	362	239	172	56	QM0602500	1SZE980070B0040		1
	300	362	289	172	56	QM0603000	1SZE980070B0050		1
	400	362	389	172	56	QM0604000	1SZE980070B0060		1
	500	362	489	172	56	QM0605000	1SZE980070B0070		1
	600	362	589	172	56	QM0606000	1SZE980070B0080		1
	800	362	789	172	56	QM0608000	1SZE980070B0090		1
	900	362	889	172	56	QM0609000	1SZE980070B0100		1
	1000	362	989	172	56	QM0610000	1SZE980070B0110		1
800	150	578	139	172	56	QM0801500	1SZE980070B0130		1
	200	362	189	172	56	QM0802000	1SZE980070B0140		1
	250	362	239	172	56	QM0802500	1SZE980070B0150		1
	300	362	289	172	56	QM0803000	1SZE980070B0160		1
	400	362	389	172	56	QM0804000	1SZE980070B0170		1
	500	362	489	172	56	QM0805000	1SZE980070B0180		1
	600	362	589	172	56	QM0806000	1SZE980070B0190		1
	800	362	789	172	56	QM0808000	1SZE980070B0200		1
	900	362	889	172	56	QM0809000	1SZE980070B0210		1
	1000	362	989	172	56	QM0810000	1SZE980070B0220		1

Subdistribution boards

System pro E® energy Combi
Covers for SMISSLINE



QXEV46001



QXEV66001

Module for:
- SMISSLINE TP 125 A (Vertical)
- Unequipped set with SMISSLINE

Content:
- Ready for mounting of SMISSLINE TP 125 A
- Extention with DIN rails 35×15 mm
- A cable laying grid is included for cable fixing
- Support to fix to the rear panel profile

Width mm	Height mm	Order details Type code	Order code	Price	Pcs.
400	450	QXEV44501	1SZE980100B0010		1
	600	QXEV46001	1SZE980100B0030		1
	750	QXEV47501	1SZE980100B0040		1
600	450	QXEV64501	1SZE980100B0060		1
	600	QXEV66001	1SZE980100B0080		1
	750	QXEV67501	1SZE980100B0090		1
800	450	QXEV84501	1SZE980100B0210		1
	600	QXEV86001	1SZE980100B0230		1
	750	QXEV87501	1SZE980100B0240		1



QXEV66002



QXEV66002

Module for:
- SMISSLINE TP 250 A (Vertical)
- Unequipped set with SMISSLINE

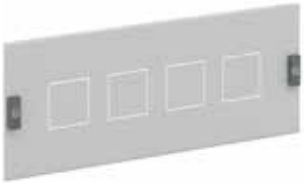
Content:
- Ready for mounting of SMISSLINE TP 250 A
- Extention with DIN rails 35×15 mm
- A cable laying grid is included for cable fixing
- Support to fix to the rear panel profile

Width mm	Height mm	Order details Type code	Order code	Price	Pcs.
400	450	QXEV44502	1SZE980100B0110		1
	600	QXEV46002	1SZE980100B0130		1
	750	QXEV47502	1SZE980100B0140		1
600	450	QXEV64502	1SZE980100B0160		1
	600	QXEV66002	1SZE980100B0180		1
	750	QXEV67502	1SZE980100B0190		1
800	450	QXEV84502	1SZE980100B0260		1
	600	QXEV86002	1SZE980100B0280		1
	750	QXEV87502	1SZE980100B0290		1

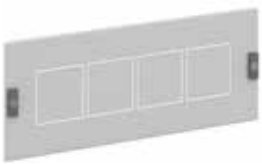
Subdistribution boards

System pro E® energy Combi

Special covers



QCM761500



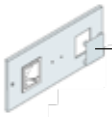
QCM961500

Covers for:
- Metering
- 72×72 mm or 96×96 mm*

Content:
- Cover plate closed with 2 pre-punch-out (400 mm width)
- Cover plate closed with 4 pre-punch-outs (600 mm width)
- Cover plate closed with 6 pre-punch-outs (800 mm width)
- Unequipped module (Metering not included)
- 1/4 turn quick-lock closing

Additional information					Order details			
Width mm	Height mm	Space units (SU)	DIN-rail distance	Numbers of places	Type code	Order code	Price	Pcs.
400	150	72×72	150	2	QCM741500	1SZE980090B0010		1
600	150	72×72	150	4	QCM761500	1SZE980090B0030		1
800	150	72×72	150	6	QCM781500	1SZE980090B0050		1
400	150	96×96	150	2	QCM941500	1SZE980090B0020		1
600	150	96×96	150	4	QCM961500	1SZE980090B0040		1
800	150	96×96	150	6	QCM981500	1SZE980090B0060		1

* M2M/M4M 96x96 not possible to mount next to each other / keep on spot in between

		Order details			
		Type code	Order code	Price	Pcs.
 EV1135 EV1136	Plastic closing cover for instuments 72 x 72 mm	EV1135			
	Plastic closing cover for instruments 96 x 96 mm	EV1136			



QCP061000

Covers for:
- Push-buttons / Pilot devices
- Diameter 22.3 mm / 0.88"

Content:
- Cover plate closed with 5 pre-punch-outs (400 mm width)
- Cover plate closed with 10 pre-punch-outs (600 mm width)
- Cover plate closed with 15 pre-punch-outs (800 mm width)
- Unequipped module (Buttons/Pilote devices not included)
- 1/4 turn quick-lock closing

Additional information				Order details			
Width mm	Height mm	Diameter mm	Numbers of buttons	Type code	Order code	Price	Pcs.
400	100	22.3	5	QCP041000	1SZE980090B0110		1
600	100	22.3	10	QCP061000	1SZE980090B0111		1
800	100	22.3	15	QCP081000	1SZE980090B0112		1

Subdistribution boards

System pro E® energy Combi

Special covers

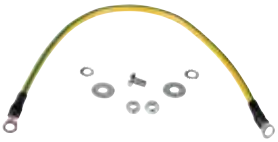


QXW061000

Cover for:

- The cable connection between module and switchgear cabinet door
- Cover with cut-out for the cable connection
- With DIN rail and connection sleeve
- With accessories to attach the sleeve to the module and to switchgear door
- Consider the door hinge position
- 1/4 turn quick-lock closing

Additional information		Order details			
Width mm	Height mm	Type code	Order code	Price	Pcs.
400	150	QXW041000	1SZE980110B0010		1
600	150	QXW061000	1SZE980110B0020		1
800	150	QXW081000	1SZE980110B0030		1



QAW007001

- Earthing set
- Connection between cover and structure, when using devices in the cover / door
- Cable diameter 6 mm^2 2x M5

	Order details			
	Type code	Order code	Price	Pcs.
	QAW007001	2SZE990940B0130		1



CAHCP10

- Hinge set for covers
- Opening angle 90 degrees
- 2 pcs. required per cover

	Order details			
	Type code	Order code	Price	Pcs.
	CAHCP10	2CPX078485R9999		10

Notes

Subdistribution boards

System pro E® energy Combi

Special covers France (dedicated only for France)



QJ4H620RC

Modules for solution:
- Tarif Jaune

Content:
- Mounting plate, double-insulated
- Cover plate
- Unequipped module (metering not insulated)
- 1/4 turn quick-lock closing

Tarif Jaune Vertical

	Device details				Order details			
Width mm	Type breaker	Current I_n	Pole	Height mm	Type code	Order code	Price	Pcs.
400	XT2+RC	160 A	4	350	QJ2V435RC	1SZE980090B0210		1
	XT4+RC	250 A	4	350	QJ4V435RC	1SZE980090B0220		1
	XT5+RC	400 A	4	450	QJ5V445RC	1SZE980090B0230		1
600	XT2+RC	160 A	4	350	QJ2V635RC	1SZE980090B0280		1
	XT4+RC	250 A	4	350	QJ4V635RC	1SZE980090B0290		1
	XT5+RC	400 A	4	400	QJ5V635RC	1SZE980090B0300		1

Tarif Jaune Horizontal

	Device details				Order details			
Width mm	Type breaker	Current I_n	Pole	Height mm	Type code	Order code	Price	Pcs.
600	OT200, OT250 OT315, OT400	400 A	4	350	QJ4H635HL	1SZE980090B0240		1
	XT2+RC	160 A		200	QJ2H620RC	1SZE980090B0250		1
	XT4+RC	250 A	4	200	QJ4H620RC	1SZE980090B0260		1
	XT5+RC	400 A	4	300	QJ5H630RC	1SZE980090B0270		1

Connection set for solution Tarif Jaune:
- Copper busbar connection set OT/XT

Content:
- 4 copper bars
- Unequipped

Connection set, busbar Tarif Jaune

Current		Order details			
I_n	Pole	Type code	Order code	Price	Pcs.
160 A	4	QJCU16000	1SZE980090B0510		1
250 A	4	QJCU25000	1SZE980090B0520		1
400 A	4	QJCU40000	1SZE980090B0530		1

Table for rated peak withstand current I_{pk}/rated short-time withstand current I_{cw} (1 sec.)

Cross-section	I_n in A	No. of busbars per phase	Max. distance between connection points (mm)	Max. distance between connection points (mm)	Max. distance between connection points (mm)
12×5	160	1	250	-	-
20×5	250	1	-	250	-
20×10	400	1	-	-	250

Subdistribution boards

System pro E® energy Combi

Special covers France (dedicated only for France)



QB3V46000

Moduls for solution:

- Tarif Blue

Content:

- Mounting plate, double-insulated
- Cover plate
- Unequipped module (metering not included)
- 1/4 turn quick-lock closing



QB1V63000



QB3V66000

Width	Height		Order details			
mm	mm	Pole	Type code	Order code	Price	Pcs.
400	600	3	QTB3V46000	1SZE980090B0310		1
400	300	1	QTB1V63000	1SZE980090B0330		1
	600	3	QTB3V66000	1SZE980090B0320		1

Subdistribution boards

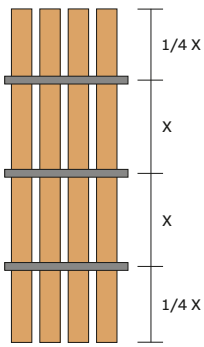
System pro E® energy Combi

Busbar system vertical

Vertical busbar	Article	Width mm	Order details Type code	Order code	Price	Pcs.
 QR6V6FF01	Busbar support Linear for flat busbar Behind the devices area Rated (I_n) max. 630 A Rated peak withstand current (I_{pk}) up to 67 kA Rated short-time withstand current (I_{cw}) 1.0 sec up to 32 kA To find the right numbers of support to achieve the short-circuit, see the table below. Code = 1 support with bracket	600	QR6V6FF01	1SZE980120B0030		1
		800	QR6V8FF01	1SZE980120B0040		1
 QR6V4FS01	Busbar support scaled for flat busbar External Cable container 400 mm width Rated (I_n) max. 630 A Rated peak withstand current (I_{pk}) up to 48 kA Rated short-time withstand current (I_{cw}) 1.0 sec up to 32 kA To find the right numbers of support to achieve the short-circuit, see the table below. Code = 1 support with bracket	400	QR6V4FS01	1SZE980120B0070		1
 QR8V6SF01	Busbar support Linear for shaped busbar Behind the devices area Rated (I_n) max. 800 A Rated peak withstand current (I_{pk}) up to 48 kA Rated short-time withstand current (I_{cw}) 1.0 sec up to 23 kA To find the right numbers of support to achieve the short-circuit, see the table below. Code = 1 support with bracket	600	QR8V6SF01	1SZE980120B0010		1
		800	QR8V8SF01	1SZE980120B0020		1
 QR8V4SS01	Busbar support scaled for shaped busbar Internal and external cable containe 200/400 mm width Rated (I_n) max. 800 A Rated peak withstand current (I_{pk}) up to 63 kA Rated short-time withstand current (I_{cw}) 1.0 sec up to 30 kA To find the right numbers of support to achieve the short-circuit, see the table below. Code = 1 support with bracket	200/400	QR8V4SS01	1SZE980120B0060		1

Table for rated peak withstand current I_{pk} / rated short-time withstand current I_{cw} (1 sec.)

Busbar Type	cross-section	I_n in A	Busbar support	No. of busbars per phase	Max. X (mm)	Max. X (mm)	Max. X (mm)	Max. X (mm)	Max. X (mm)
Busbar support linear for flat busbar					6,8kA	9kA	17kA	23 kA	32kA
	20×5	250	QR6V6FF01 QR6V8FF01	1	-	-	250	-	-
	20×10	400		1	-	-	-	250	-
	30×10	630		1	-	-	-	-	250
Busbar support scaled for flat busbar									
	20×5	250	QR6V4FS01	1	250	<	100	-	-
	20×10	400		1	-	250	<	100	-
	30×10	630		1	-	250	<	100	-
Busbar support linear for shaped busbar									
BA0400		400	QR8V6SF01 QR8V8SF01	1	-	-	-	400	-
BA0800		800		1	-	-	-	-	400
Busbar support scaled for shaped busbars									
BA0400		400	QR8V4SS01	1	-	-	-	400	-
BA0800		800		1	-	-	-	-	350



The distance between the first busbar holder and the end of the busbar must not exceed 1/4 of "X"

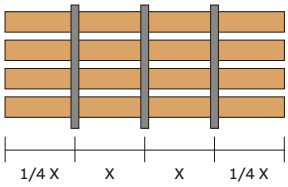
Subdistribution boards

System pro E® energy Combi

Busbar system horizontal

Horizontal busbar	Article	Width mm	Order details Type code	Order code	Price	Pcs.
 QR6V4FS01	Busbar support scaled for flat busbar Module height 300 mm (cover needs to be ordered seperately) Rated (I_n) max. 630 A Rated peak withstand current (I_{pk}) up up to 48 kA Rated short-time withstand current (I_{cw}) 1.0 sec up to 32 kA To find the right numbers of support to achieve the short-circuit. Code = 1 support with bracket	600	QR6H6FS01	1SZE980120B0120		1
		800	QR6H8FS01	1SZE980120B0130		1
 QR8V4SS01	Busbar support scaled for shaped busbar Module height 300 mm (cover needs to be ordered seperately) Rated (I_n) max. 800 A Rated peak withstand current (I_{pk}) up to 63 kA Rated short-time withstand current (I_{cw}) 1.0 sec up to 30 kA To find the right numbers of support to achieve the short-circuit. Code = 1 support with bracket	600	QR8H6SS01	1SZE980120B0090		1
		800	QR8H8SS01	1SZE980120B0100		1

Table for rated peak withstand current I_{pk} / rated short-time withstand current I_{cw} (1 sec.)



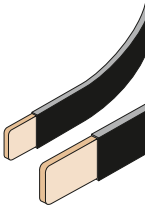
The distance between the first busbar holder and the end of the busbar must not exceed 1/4 of "X"

Busbar Type	cross-section	I_n in A	Busbar support	No. of busbars per phase	Max. X = 250 (mm)
Busbar support scaled for flat busbars					
	20×5	250	QR6H6FS01 QR6H8FS01	1	6.8 kA
	20×10	400		1	9 kA
	30×10	630		1	9 kA
Busbar support linear for shaped busbar					
BA0400		400	QR8H6SS01 QR8H8SS01	1	23 kA
BA0800		800		1	32 kA

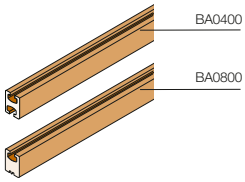
Subdistribution boards

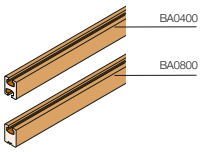
System pro E® energy Combi

Busbar system

	Article	Length mm	I_n A	Order details Type code	Order code	Price	Pcs.
 BF1602	**Flexible Busbars** Flexible busbars insulated with self-extinguishing material						
	No. 2 flexible busbars, section 20 x 3	2000	250	BF1602			2
	No. 2 flexible busbars, section 20 x 5	2000	400	BF2502			2
	No. 2 flexible busbars, section 24 x 6	2000	500	BF4002			2
	No. 2 flexible busbars, section 32 x 5	2000	630	BF4012			2

Cross section		Type code	I_n A	No. busbar/ phase	Dimensions Cu busbar mm	Section dimensions mm²	Length mm	Weight kg
Flexible busbars up to 630 A								
		BF1602	250	1	20 x 3	60	2000	1.42
		BF2502	400	1	20 x 5	100	2000	2.15
		BF4002	500	1	24 x 6	144	2000	3
		BF4012	630	1	32 x 5	160	2000	3.36

	Article	Length mm	I_n A	Order details Type code	Order code	Price	Pcs.
	**Distribution busbars with shaped section**						
	Busbar In = 400 A	1730	400	BA0400			1
	Busbar In = 800 A	1730	800	BA0800			1

Cross section		Type code	I_n A	No. busbar/ phase	Dimensions Cu busbar mm	Section dimensions mm²	Length mm	Weight kg
Busbars with shaped section for applications up to 800 A								
		BA0400	400	1	20 x 20	200	1730	4
		BA0800	800	1	20 x 20	280	1730	4.4

Subdistribution boards

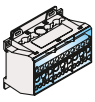
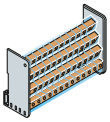
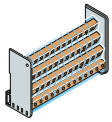
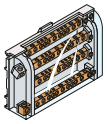
System pro E® energy Combi

Busbar system

	Article	Length mm	I_n A	Order details Type code	Order code	Price	Pcs.
	**Flat busbar** Copper busbars drilled and threaded for rapid connection of the conducters Can be used with both busbar holders (Linear/staircase(scaled)						
	flat busbar 20×5, H2000 threated M.6	2000	250	QR02F2005	1SZE980120B0460		1
	flat busbar 20×10, H2000 threated M.6	2000	400	QR02F2010	1SZE980120B0470		1
	flat busbar 30×5, H2000 threated M.6	2000	400	QR02F3005	1SZE980120B0480		1
	flat busbar 30×10, H2000 threated M.8	2000	630	QR02F3010	1SZE980120B0490		1
	flat busbar 40x10, H2000 threated M.8	2000	800	QR02F4010	1SZE980120B0500		1
   QR0CM6P20  QR0C16P20  QR0C35P20	**Flat busbar** Copper busbars drilled and threaded for rapid connection of the conducters Can be used with both busbar holders (Linear/staircase (scaled)						
	Horizontal PE busbar 20×10, W400	400		QR4HP2010	1SZE980120B0260		
	Horizontal PE busbar 30×10, W400	400		QR4HP3010	1SZE980120B0270		
	Horizontal PE busbar 40×10, W400	400		QR4HP4010	1SZE980120B0280		
	Horizontal PE busbar 20×10, W600	600		QR6HP2010	1SZE980120B0290		
	Horizontal PE busbar 30×10, W600	600		QR6HP3010	1SZE980120B0300		
	Horizontal PE busbar 40×10, W600	600		QR6HP4010	1SZE980120B0310		
	Horizontal PE busbar 20×10, W800	800		QR8HP2010	1SZE980120B0320		
	Horizontal PE busbar 30×10, W800	800		QR8HP3010	1SZE980120B0330		
	Horizontal PE busbar 40×10, W800	800		QR8HP4010	1SZE980120B0340		
	Hor.earthbar W400 CU12×4+conn.	400		QR4PC3010	1SZE980120B0540		
	Hor.earthbar W600 CU12×4+conn.	600		QR6PC3011	1SZE980120B0550		
	Hor.earthbar W800 CU12×4+conn.	800		QR8PC3012	1SZE980120B0560		
	Fixation clips M6 (set of 20 pcs)			QR0CM6P20	1SZE980120B0570		
	Connectors 16mm² (set of 20 pcs)			QR0C16P20	1SZE980120B0580		
	Connectors 35mm² (set of 20 pcs)			QR0C35P20	1SZE980120B0590		

Modular dividers

Three-poles

Code		AD1004		AD1028	AD1029	AD1027
I_n	(A)	125		125	125	160
I_{cw}	(kA)	10		4.2	4.2	6.2
I_{pk}	(kA)	24		25	25	20
Version	poli	4.2		4	4	4
Installation		DIN35/plate		DIN35/plate	DIN35/plate	DIN35
Power supply ⌀ cable (mm²)	min.	6		6	6	10
	max.	35		25 with cable terminal	25 with cable terminal	50
N°outgoing feeder ⌀ cable (mm²)		1/6	5/phase	-	-	-
		1.5/6	4/neutral	-	-	-
		1.5/10	2/phase	7	9	-
			6/neutral			
		1.5/16		-	2	-
		2.5/16		-	-	8
		6/25		2	2	3
Dimensions H×W×D	(mm)	74.5×98×45		93×89×48	96×126×48	90×160.5×50
N° DIN modules		5.5		5	7	9
Rated service voltage U_e	(V)	1000 Vca 1500 Vcc		440	440	440
Degree of protection	IP	20		20	20	20

Subdistribution boards

System pro E® energy Combi
Internal form of segregation form 2b



QRFV46001

Vertical busbar segregation
- Set to separate the busbar behind the covers
- Touch protection in front of the busbar system
- Mounting position vertical
- Scaled Busbar Holder
- Material is transparent plastic
- Internal and external cable container (400 mm width)

Vertical segregation (400 mm width)

Width mm	Height mm	Order details Type code	Order code	Price	Pcs.
400	600	QRFV46001	1SZE980190B0010		
	800	QRFV48001	1SZE980190B0020		
closing		QRFV4C001	1SZE980190B0030		

QRFV66001

Vertical busbar segregation
- Set to separate the busbar behind device area
- Touch protection in front of the busbar system
- Mounting position vertical
- Flat Busbar holder
- Material is transparent plastic

Vertical segregation (600/800 mm width)

Width mm	Height mm	Order details Type code	Order code	Price	Pcs.
600/800	600	QRFV66001	1SZE980190B0040		
	800	QRFV68001	1SZE980190B0050		
closing		QRFV6C001	1SZE980190B0060		



QRFW63001

Horizontal busbar segregation
- Set to separate the busbar behind device area
- Touch protection behind the busbar system
- Mounting position horizontal
- Material is transparent plastic

Horizontal busbar segregation

Width mm	Height mm	Order details Type code	Order code	Price	Pcs.
600	300	QRFW63001	1SZE980190B0070		
800	300	QRFW83001	1SZE980190B0080		

QRFV01XSS

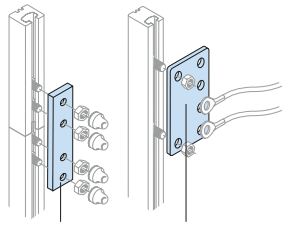
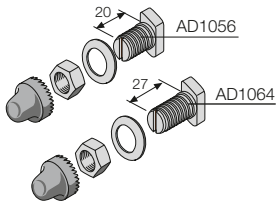
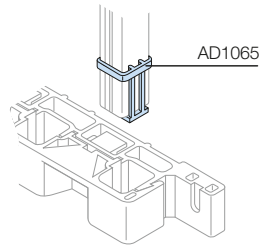
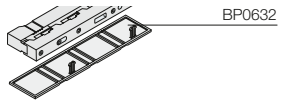
- Set to separate the busbars in external cable container to the device area
- Mounting position vertical
- Material is transparent plastic

Depth mm	Height mm	Order details Type code	Order code	Price	Pcs.
250	1000	QRFV01XSS	1SZE980190B0090		1

Subdistribution boards

System pro E® energy Combi

Accessories, mounting support

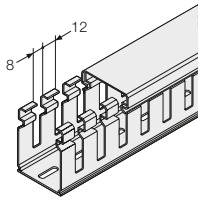
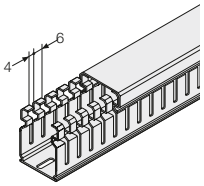
	Article	Order details Type code	Order code	Price	Pcs.
 CASHP2	**Support universal, for horizontal installation** For a Din rail or cable fastening rail or earth busbar max. 20 x 5 mm Material is metal	QAW0010P2	1SZE980150B0010		2
		QAW0010P5	1SZE980150B0015		50
 CASVP2	**Support universal, for vertical installation** For a Din rail or cable fastening Material is metal	QAW0020P2	1SZE980150B0020		2
		QAW0020P5	1SZE980150B0025		50
 AD1068 AD1077	**Joints for busbars with shaped section**				
	No. 4 copper 400 A branch joints	AD1077	1STQ008218A0000		4
	No. 4 joints for joining busbars with shaped section 400 / 800 A	AD1068			4
	**Hammer seal screws for busbars with shaped section**				
	No. 12 M8 screws L = 20 mm for flexible busbars and cable shoes complete with screw-covering cap	AD1056	1STQ008214A0000		12
	No. 12 M8 screws L = 27 mm for flat busbars 10 mm complete with screw-covering cap	AD1064	1STQ008215A0000		12
	**Resting bases for busbars with shaped section**				
	No. 4 resting bases for 400 / 800 A busbars	AD1065			4
	**Busbars holders end cover**				
	No. 2 terminal covers for linear busbar holders CKBS1161, CKBS1181	BP0632			1

Subdistribution boards

System pro E® energy Combi

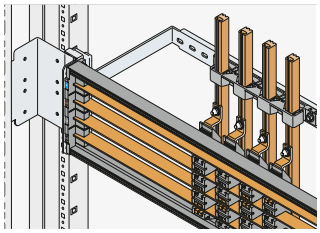
Accessories, wiring system

	Article	Unit	Order details Type code	Order code	Price	Pcs.
 ED44P10  ED45P10	**Wire holder** For wire guidance, installation depth 28.5 mm, to be inserted into the DIN rail from the rear		ED44P10	2CPX062335R9999		10
			ED44P50	2CPX062308R9999		50
			ED44P1000	2CPX062703R9999		1000
	Wire holder For the wire guidance or receiving a plastic tube of ⌀ 38 mm, installation depth 55 mm, to be inserted in the DIN rail from the rear		ED45P10	2CPX062336R9999		10
			ED45P50	2CPX062310R9999		50
			ED45P1000	2CPX062704R9999		1000
 ED59P10	**DIN rails adapter** For ED44 and ED45, to be snapped onto the DIN rail from the front		ED59P10	2CPX062339R9999		10
 ED42P10  ED43P10	**Console for the ED44 and ED45 wire holders** To be inserted in the DIN rail from the rear		ED42P10	2CPX062333R9999		10
	Console for the ED44 and ED45 wire holders To be snapped onto the DIN rail from the front		ED43P10	2CPX062334R9999		10
	**Support for horizontal wiring** - Below double DIN - Can be combined with ED44 / ED45 / ED42 - Material is polyamid (PA) - Screwless		QAW0040P2	1SZE980150B0040		2
			QAW0040P5	1SZE980150B0045		50
	- Support for Horizontal /Vertical Wiring on QAW0040 only in combination with QAW0040		QAW0045P2	1SZE980150B0041		2
			QAW0045P5	1SZE980150B0046		50
	**Support for vertical wiring on the backplate** - For wiring space up to 60 mm 80 mm height - Material is polyamid (PA) - Screwless		QAW0050P2	1SZE980150B0050		2
			QAW0050P5	1SZE980150B0055		50
	**Support for wiring duct** - For wiring ducts with 60 mm and 80 mm height - Material is polyamid (PA)		QAW0060P2	1SZE980150B0060		2
			QAW0060P5	1SZE980150B0065		50
	**45° Support for wiring duct / Earth-bar / DIN-rail**		QAW0080P2	1SZE980150B0280		2
			QAW0080P5	1SZE980150B0285		50

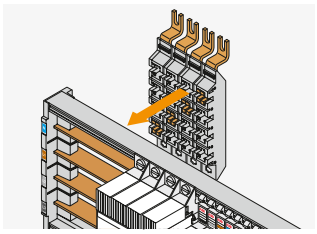
	Article	Order details Type code	Order code	Price	Pcs.
	**Wiring ducts** For horizontal and vertical installation RAL 7035, lenght 2000 mm				
	Slot 8 - 12 mm Base × Height in mm				
	60 × 60	05067	M050670000		1
	60 × 80	05087	M050870000		1
	80 × 60	05069	M050690000		1
	80 × 80	05089	M050890000		1
	Slot 4 - 6 mm Base × Height in mm				
	60 × 60	05167	M051670000		1
	60 × 80	05187	M051870000		1
	80 × 60	05169	M051690000		1
	80 × 80	05189	M051890000		1

Subdistribution boards

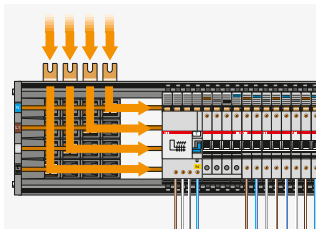
System pro E® energy Combi
System Unifix, overview



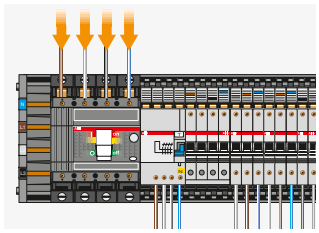
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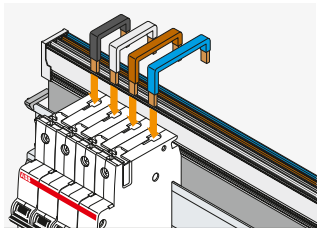
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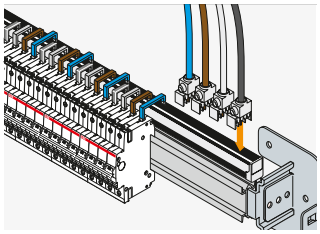
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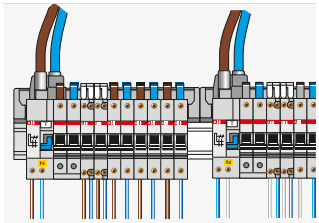
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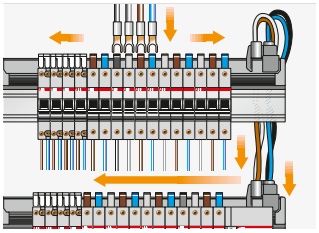
05



06



07



08

01 Direct connection with the 400/800 A system of busbars with shaped section

02 Feeder module for 400 A frame (L1-L2-L3-N)

03 Direct power supply of the bases by means of feeder module ED2209

04 Power supply by means of general row circuit-breaker

05 Connections (L1-L2-L3-N) for System pro M modular apparatus

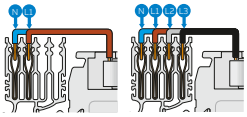
06 Power supply of the busbar with 100 A feeder module without cable Terminal capacity 35mm²

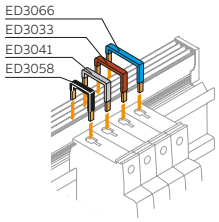
07 Direct power supply of the busbars by means of feeder module

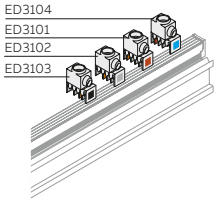
08 Power supply by means of modules and cables in parallel

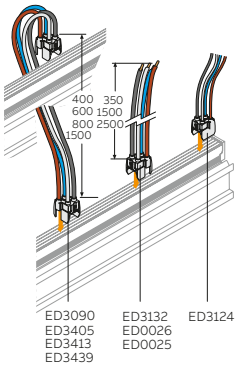
Subdistribution boards

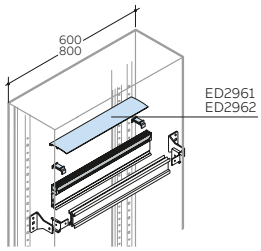
System pro E® energy Combi
System Unifix L







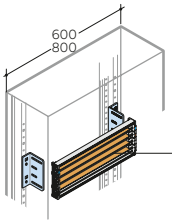


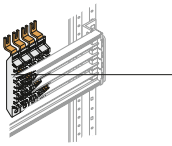


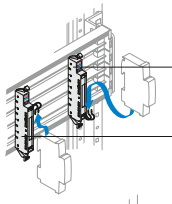
Article	Order details		Price	Pcs.
	Type code	Order code		
2-pole busbars				
100 A 2P 8 module busbar, width 200 mm	ED2985	1STQ008313A0000		6
100 A 2P 12 module busbar, width 400 mm	ED2993	1STQ008314A0000		6
100 A 2P 18 module busbar, width 450 mm	ED3009	1STQ008315A0000		6
100 A 2P 24 module busbar, width 600 mm	ED3017	1STQ008316A0000		6
100 A 2P 36 module busbar, width 800 mm	ED3025	1STQ008317A0000		6
4-pole busbars				
100 A 4P 12 module busbar, width 400 mm	ED2944	1STQ008307A0000		6
100 A 4P 18 module busbar, width 450 mm	ED2951	1STQ008308A0000		6
100 A 4P 24 module busbar, width 600 mm	ED2969	1STQ008311A0000		6
100 A 4P 36 module busbar, width 800 mm	ED2977	1STQ008312A0000		6
Connections for various apparatus				
Connection with 2 conductors L/N 16 A	ED3108	1STQ008332A0000		6
Connection with 3 conductors L1/L2/L3 16 A	ED3116	1STQ008333A0000		6
Connection with 4 conductors L1/L2/L3/N 16 A single phase	ED3124	1STQ008334A0000		6
Connection with 2 conductors L1/N 40 A	ED3355	1STQ008339A0000		6
Connection with 3 conductors L1/L2/L3 40 A	ED3363	1STQ008340A0000		6
Connection with 4 conductors L1/L2/L3/N 40 A	ED3371	1STQ008341A0000		6
Connections for apparatus				
No. 10 connections L1-N 40 A	ED3272	1STQ008336A0000		10
No. 10 connections L2-N 40 A	ED3280	1STQ008337A0000		10
No. 10 connections L3-N 40 A	ED3298	1STQ008338A0000		10
No. 10 connections L 1 100 A	ED3033	1STQ008318A0000		10
No. 10 connections L 2 100 A	ED3041	1STQ008319A0000		10
No. 10 connections L 3 100 A	ED3058	1STQ008320A0000		10
No. 10 connections N 100 A	ED3066	1STQ008321A0000		10
Feeder with 4P 100 A cable, width 350 mm	ED3132	1STQ008335A0000		10
Feeder with 4P 100 A cable, width 1500 mm	ED0026	1STQ008306A0000		10
Feeder with 4P 100 A cable, width 1500 mm	ED0025	1STQ008305A0000		10
Power supply modules with cable				
Parallel module 2P 100 A with cable, width 600 mm	ED3082	1STQ008322A0000		6
Parallel module 4P 100 A with cable, width 400 mm	ED3405	1STQ008342A0000		6
Parallel module 4P 100 A with cable, width 600 mm	ED3090	1STQ008323A0000		6
Parallel module 4P 100 A with cable, width 800 mm	ED3413	1STQ008343A0000		6
Parallel module 4P 100 A with cable, width 1500 mm	ED3439	1STQ008344A0000		6
Power supply modules without cable I_n 100 A				
No. 10 single-pole power supply terminals L1	ED3101	1STQ008324A0000		10
No. 10 single-pole power supply terminals L2	ED3102	1STQ008326A0000		10
No. 10 single-pole power supply terminals L3	ED3103	1STQ008328A0000		10
No. 10 single-pole power supply terminals N	ED3104	1STQ008330A0000		10
Accessories				
N°10 busbar covers, width 600 mm	ED2961	1STQ008309A0000		10
N°2 busbar covers, width 800 mm	ED2962	1STQ008310A0000		2

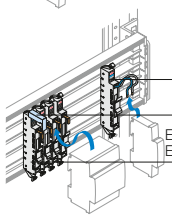
Subdistribution boards

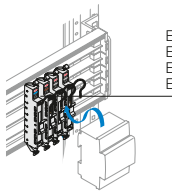
System pro E® energy Combi
System Unifix H

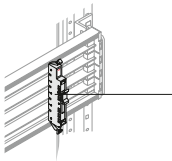


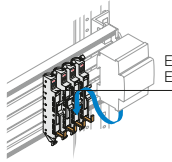








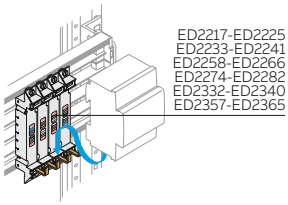


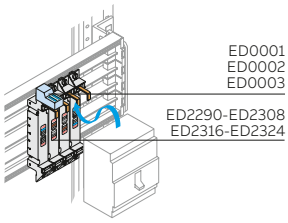


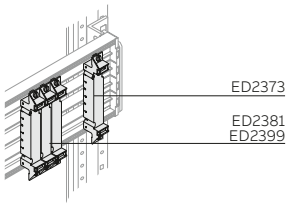
Article	Order details Type code	Order code	Price	Pcs.
Frames for Tmax				
Frame with 24 DIN module busbar	ED2183			1
Frame with 36 DIN module busbar	ED2191			1
Feeder modules				
4P 400 A feeder module (for ED2183-ED2191)	ED2209	1STQ008230A0000		1
Basic modules I_n 16 A				
Basic module for DIN L1-N top 16 A	ED2894			1
Basic module for DIN L1-L2 top 16 A	ED2902	1STQ008256A0000		1
Basic module for DIN L1-N bottom 16 A	ED2910	1STQ008257A0000		1
Basic module for DIN L1-L2 bottom 16 A	ED2928	1STQ008258A0000		1
Basic modules I_n 40 A				
Basic module L1/Neutral top 40 A	ED2654	1STQ008248A0000		1
Basic module L2/Neutral top 40 A	ED2662	1STQ008249A0000		1
Basic module L3/Neutral top 40 A	ED2670	1STQ008250A0000		1
Basic modules I_n 63 A				
Basic module L1 top 63 A	ED2531	1STQ008231A0000		1
Basic module L2 top 63 A	ED2549	1STQ008232A0000		1
Basic module L3 top 63 A	ED2556	1STQ008238A0000		1
Basic module Neutral top 63 A	ED2564	1STQ008243A0000		1
Basic module L1 bottom 63 A	ED2572	1STQ008244A0000		1
Basic module L2 bottom 63 A	ED2590	1STQ008245A0000		1
Basic module L3 bottom 63 A	ED2598	1STQ008246A0000		1
Basic module Neutral bottom 63 A	ED2606	1STQ008247A0000		1
Basic modules I_n 100 A				
Basic module with cable L1 top 100 A	ED2720	1STQ008251A0000		10
Basic module with cable L2 top 100 A	ED2738	1STQ008252A0000		2
Basic module with cable L3 top 100 A	ED2746	1STQ008253A0000		1
Basic module with cable Neutral top 100 A	ED2753	1STQ008254A0000		1
Basic modules ≤ I_n 40 A S800				
Basic module L1 top ≤ 40 A	ED2557	1STQ008239A0000		1
Basic module L2 top ≤ 40 A	ED2558	1STQ008240A0000		1
Basic module L3 top ≤ 40 A	ED2559	1STQ008241A0000		1
Basic module Neutral top ≤ 40 A	ED2560	1STQ008242A0000		1
Basic modules ≤ I_n 125 A S800				
Basic module L1 top 125 A	ED2551	1STQ008234A0000		1
Basic module L2 top 125 A	ED2552	1STQ008235A0000		1
Basic module L3 top 125 A	ED2553	1STQ008236A0000		1
Basic module Neutral bottom 125 A	ED2554	1STQ008237A0000		1
Basic module false pole, width 27 mm	ED2557	1STQ008239A0000		1

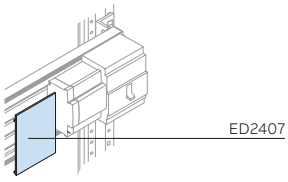
Subdistribution boards

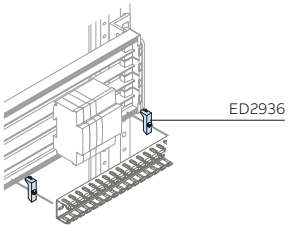
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System Unifix H











Article	Order details		Price	Pcs.
	Type code	Order code		
Basic modules ≤ In 160 A, Tmax XT1				
Basic module L1 top L2 bottom	ED2217	1STQ008263A0000		1
Basic module L2 top L1 bottom	ED2225	1STQ008264A0000		1
Basic module L3 top Neutral bottom	ED2233	1STQ008265A0000		1
Basic module Neutral top L3 bottom	ED2241	1STQ008266A0000		1
Basic module false pole for residual current release RC221	ED2373	1STQ008279A0000		1
Basic module false pole for solenoid operator	ED2381	1STQ008280A0000		1
Basic modules ≤ In 250 A, Tmax XT3				
Basic module L1 top	ED2290	1STQ008271A0000		1
Basic module L2 top	ED2308	1STQ008272A0000		1
Basic module L3 top	ED2316	1STQ008273A0000		1
Basic module N top	ED2324	1STQ008274A0000		1
Basic module L1 bottom	ED2332	1STQ008275A0000		1
Basic module L2 bottom	ED2340	1STQ008276A0000		1
Basic module L3 bottom	ED2357	1STQ008277A0000		1
Basic module N bottom	ED2365	1STQ008278A0000		1
Basic module false pole for residual current release RC221	ED2373	1STQ008279A0000		1
Accessories				
Basic module false pole for DDA	ED2845	1STQ008283A0000		1
Basic module false pole for modular MDRC	ED2852	1STQ008284A0000		1
No. 2 IP20 covers (for ED2183-ED2191), width 173 mm (10 DIN modules)	ED2407	1STQ008282A0000		2
No. 6 duct supports 40 x 60 mm (only for modular apparatus)	ED2936	1STQ008285A0000		6
Spare parts				
No. 10 terminal covers for Tmax XT1	ED0001	1STQ008259A0000		10
No. 10 terminal covers for Tmax XT3	ED0003	1STQ008261A0000		10
No. 10 terminal covers for S200/F200	ED0004	1STQ008262A0000		10

Subdistribution boards

System pro E® energy Combi

System Unifix, technical data

Technical characteristics	Unifix H	Unifix L
Unifix systems		
Rated service voltage (U_e)	690 V AC	400 V AC
Rated insulation voltage (U_i)	1000 V AC	500 V AC
Rated impulse withstand voltage (U_{imp})	8 kV	6 kV
Rated frequency	50/60 Hz	50/60 Hz
Rated current (I_n) central power supply lateral power supply	400 A	100 A
	320 A	80 A
Rated short-time withstand current (I_{cw})	25 kA	-
Maximum peak current (I_{pk})	52,5 kA - 400 V	-
Maximum installable circuit-breaker size	250 A	100 A
Conditioned short-circuit current (I_{cc}) Tmax XT1 Tmax XT3	50 kA - 400 V	-
	50 kA - 400 V	-
With circuit-breaker		
S200	-	6 kA - 400 V
S200M	-	10 kA - 400 V
S200P	-	25 kA - 400 V
Degree of protection	IP20 with accessory	IP20
Characteristics of the insulating material	Self-extinguishing thermoplastic V1 (UL94)	Self-extinguishing thermoplastic V1 (UL94)
Characteristics of the conductor material	Electrolytic copper	Electrolytic copper
Width (No. modules/mm)	24/600 36/800	12/400 24/600 36/800
Installation of Unifix system		
Frame for Tmax XT series 300 x 600 mm (H x L) 300 x 800 mm (H x L)	ED2183	-
	ED2191	-
Fixing brackets Height 300 mm	AD1097	-
Crosspiece for direct connection to the rear busbars with shaped section with PB0803 Width 600 mm Width 800 mm	TL1000	-
	TL1100	-
Busbar 4P 12 mod. 18 mod. 24 mod. 36 mod.	-	ED2993
	-	ED3009
	-	ED3017
	-	ED3025
Busbar 4P 12 mod. 18 mod. 24 mod. 36 mod.	-	
	-	ED2944
	-	ED2951
	-	ED2969
	-	ED2977
Fixing support 24 mod. 36 mod.	-	
	-	GD1520
	-	GD1530

(1) Select circuit-breakers in version with front terminals for copper cables.

Subdistribution boards

System pro E® energy Combi
System Unifix, selecting table

Series of circuit-breakers	Unifix H		Unifix L
Unifix systems Table for selecting connections according to the circuit-breaker			
SN201 DS941	(top power supply)		
	ED2654 L1/N 40 A	-	ED3272 L1/N 40 A
	ED2662 L2/N 40 A	-	ED3280 L2/N 40 A
	ED2670 L3/N 40 A	-	ED3298 L3/N 40 A
S200 - DS200 F200 up to 63A (Unifix L)	(top power supply)	(bottom power supply)	
	ED2531 L1 63A	ED2572 L1 63A	ED3033 L1 100A
	ED2549 L2 63A	ED2590 L2 63A	ED3041 L2 100A
	ED2556 L3 63A	ED2598 L3 63A	ED3058 L3 100A
	ED2564 N 63A	ED2606 N 63A	ED3066 N 100A
	ED2845 False pole module	-	-
S800	(top power supply)		
	ED2557 L1 ≤32A	-	-
	ED2558 L2 ≤32A	-	-
	ED2559 L3 ≤32A	-	-
	ED2560 N ≤32A	-	-
	ED2551 L1 125A	-	-
	ED2552 L2 125A	-	-
	ED2553 L3 125A	-	-
	ED2554 N 125A	-	-
	ED2550 False pole module	-	-
S280 (80-100A) E200 up to 100A - RS370 - F200 80/100A (Unifix H)	(top power supply)		
	ED2720 L1 100A	-	ED3132 pow. supply L1/L2/L3/N - 350mm
	ED2738 L2 100A	-	ED0026 pow. supply L1/L2/L3/N - 1500mm
	ED2746 L3 100A	-	ED0025 pow. supply L1/L2/L3/N - 2500mm
	ED2753 N 100A	-	-
MDRC - Various apparatus	(top power supply)	(bottom power supply)	
	ED2894 L1/N 16A	ED2910 L1/N 16A	ED3108 pow. supply 2 cables L1/N 16A
	ED2902 L1/L2 16A	ED2928 L1/L2 16A	ED3116 pow. supply 3 cables L1/L2/L3 16A
	-	-	ED3124 pow. supply 4 cables L1/L2/L3/N 16A
	-	-	ED3355 pow. supply 2 cables L1/N 40A
	-	-	ED3363 pow. supply 3 cables L1/L2/L3 40A
	-	-	ED3371 pow. supply 4 cables L1/L2/L3/N 71A
Circuit-breaker Tmax XT1	(top/bottom power supply)	-	-
	ED2217 L1 Top/L2 Bottom	-	-
	ED2225 L2 Top/L1 Bottom	-	-
Residual current Selenoid operator	ED2233 L3 Top/N Bottom	-	-
	ED2241 N Top/L3 Bottom	-	-
	ED2373 False pole module	-	-
	ED2381 False pole module	-	-
Circuit-breaker Tmax XT3	(top power supply)	(bottom power supply)	-
	ED2290 L1	ED2332 L1	-
	ED2308 L2	ED2340 L2	-
Residual current	ED2316 L3	ED2357 L3	-
	ED2324 N	ED2365 N	-
	ED2373 False pole module	-	-

(1) Select circuit-breakers in version with front terminals for copper cables.

Subdistribution boards

System pro E® energy Combi

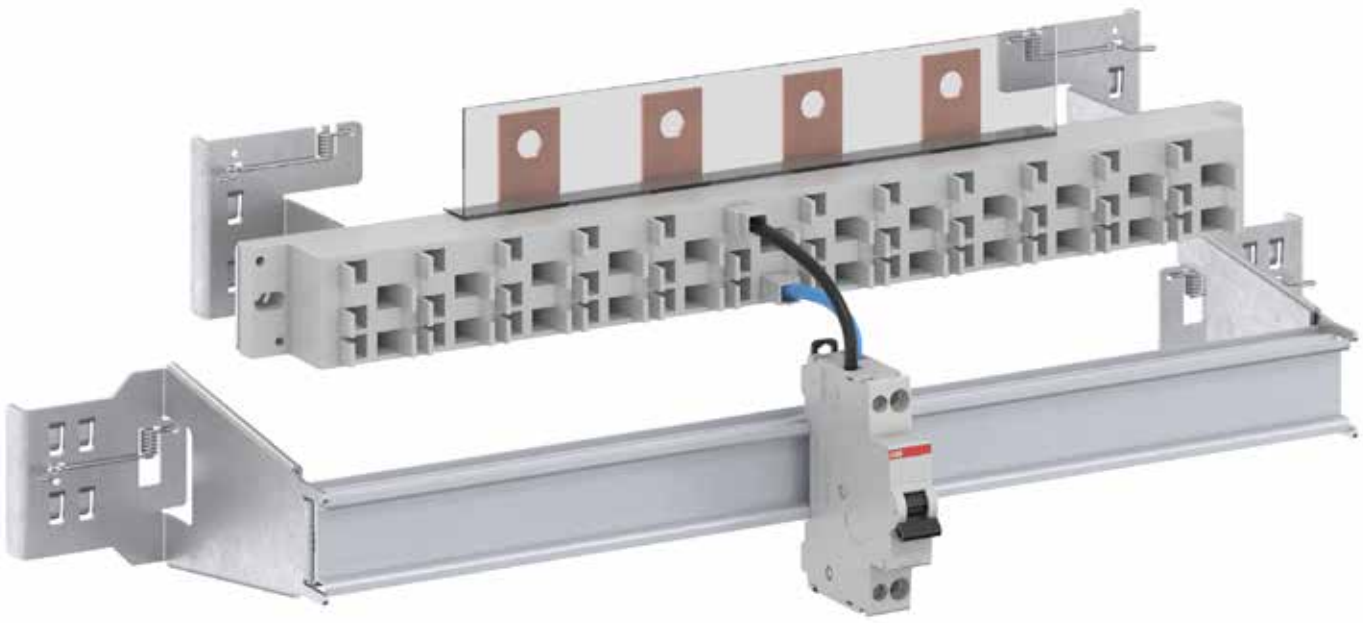
Uniclic plug-in distribution system, overview

Uniclic plug-in distribution system

Uniclic is a secondary plug-in distribution system of 250A, 660V~ 60kA peak. Uniclic is a busbar for modular devices such as MCBs as for comfort functions.
Uniclic can be positioned between the DIN-rails, indepentent on the type of system enclosure: System pro E enery, TwinLine N, System pro E power and others.

The main advantage of Uniclic is the safety aspect (IP20): adding or removing electrical circuits in a panel board without disconnecting the power. All outgoing circuits stay in the operational function, due to the fact that all operations are done using the insulated click connection, without touching the life parts, not even when using an insulated tool.

The Uniclic distribution system is suitable for integration in all system enclosures conform to IEC 60439-1.

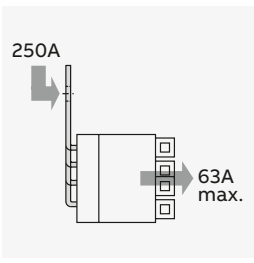












Subdistribution boards

System pro E® energy Combi

Uniclic plug-in distribution system



Material:

- Connecting Lugs, copper, uncoated
- Housing / Body, PC+PU resin, grey
- Protective Profile, PVC, clear
- Nominal Voltage, 400 V
- Nominal Current, 250 A
- I_{cw} (1 sec.) 10kA / I_{pk} 61kA
- Degree of protection IP20

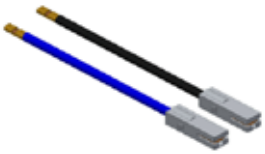
Additional information			Order details			
Width	Dimensions (mm) L×W×H	Description	Type code	Order code	Price	Pcs.
UNICLIC_block 24 modules 3P+2N	422×40×50	Uniclic 250A 36-24	Uniclic 250A 36-24	2CDL701001R0250		1
UNICLIC_block 36 modules 3P+2N	616×40×50	Uniclic 250A 54-36	Uniclic 250A 54-36	2CDL701001R2250		1



Material:

- brackets, sheet steel, 2 mm

Additional information		Order details			
	Description	Type code	Order code	Price	Pcs.
Mounting brackets for UNICLIC_block	Bracket for Moduclic 600/800	QAMB000P2	1SZE980160B0250		1



Material:

- Connector plug with cable
- Body of the connector, PC, grey
- Contact connector, bronze, uncoated
- Cable identification, H07V-K,
- Nominal current, 6mm² (40 A), 10mm² (63 A)
- Nominal Voltage 450/750 V
- Cable lug, End sleeve, Brass pressed
- Cable length 120 mm & 320 mm

Additional information				Order details			
Description	Cables	Cable section (mm²)	Cable length	Type code	Order code	Price	Pcs.
Cable with stripped end	10 black cables	6	120	Uniclic-CW 6/120	2CDL701302R0120		1
	10 blue cables	6	120	Uniclic-CW 6/120 N	2CDL701301R0120		1
	10 black cables	10	120	Uniclic-CW 10/120	2CDL701302R1120		1
	10 black cables	10	120	Uniclic-CW 10/120 N	2CDL701301R1120		1
Cable with stripped end	10 black cables	6	320	Uniclic-CW 6/320	2CDL701302R0320		1
	10 blue cables	6	320	Uniclic-CW 6/320 N	2CDL701301R0320		1
	10 black cables	10	320	Uniclic CW 10/320	2CDL701302R1320		1
	10 black cables	10	320	Uniclic-CW 10/320 N	2CDL701301R1320		1

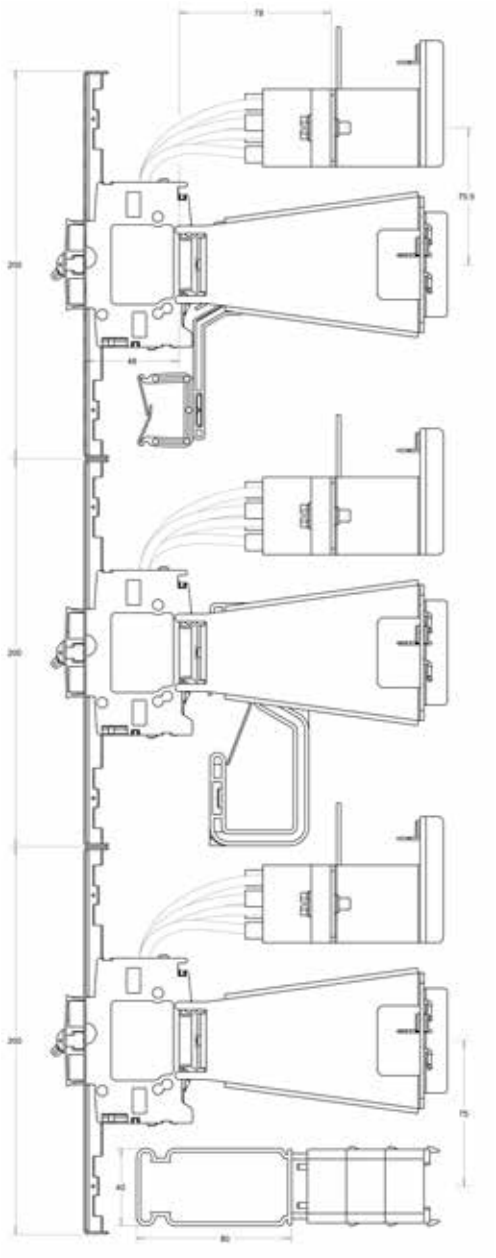


Additional information		Order details			
Description		Type code	Order code	Price	Pcs.
Plugs					
Connector with insulated crimp, 1.5-2.5 mm²		Uniclic CP 2	2CDL701001R1002		1
Connector with insulated crimp, 4-6 mm²		Uniclic CP 6	2CDL701001R1006		1
Connector with insulated crimp, 6-10 mm²		Uniclic CP 10	2CDL701001R1010		1

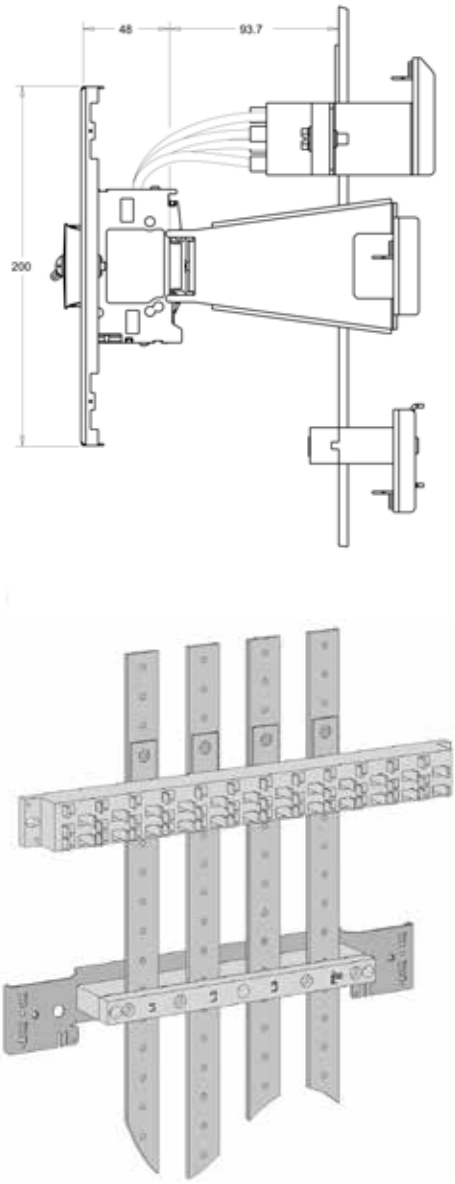
Subdistribution boards

System pro E® energy Combi
Mounting of Uniclic

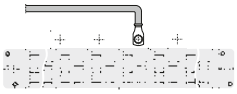
On DIN rail (step = 200 mm)



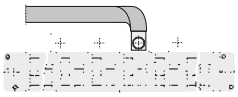
Direct on busbar (step = 200 mm)



Incoming connections



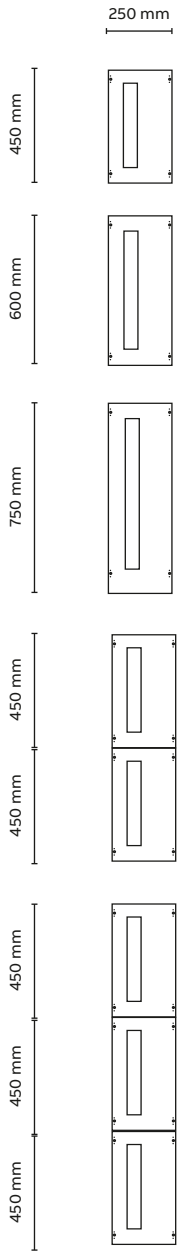
Cable max. 70 mm² – 170 A



Flexibar 3 × 20 × 1 – 250 A

Subdistribution boards

System pro E® energy Combi
Planning aid SMISSLINE TP 125 A



Modules for the cabinets Type	Panel width	Panel height	Socket base length SU	Pieces
1x QXEV44501	400 mm	450 mm	22 SU	1
				1
1x QXEV46001	400 mm	600 mm	30 SU	1
				1
1X QXEV47501	400 mm	750 mm	38 SU	1
				1
2x QXEV44501	400 mm	900 mm	46 SU	1
				1
3x QXEV44501	400 mm	1350 mm	46 SU	1
				1

Planning note
When positioning incoming terminal blocks under cover joints, use the lower terminal blocks ZLS228 or ZLS229.
Vertical

Socket base starter kit				Socket base in individual parts	
Type	**Order code**	**Pieces**	**Space units**	**Type**	**Order code**
ZLS905E22-3L	2CCA183102R0001	2	8	ZLS908	2CCA183030R0001
		1	6	ZLS906	2CCA183035R0001
		1		ZLS920 (End part)	2CCA183017R0001
ZLS905E22-3LN*	2CCA183103R0001	3/4*		ZLS201E22 (Cu bus bar)	2CCF800165R0001
ZLS905E30-3L	2CCA183110R0001	3	8	ZLS908	2CCA183030R0001
		1	6	ZLS906	2CCA183035R0001
		1		ZLS920 (End part)	2CCA183017R0001
ZLS905E30-3LN*	2CCA183111R0001	3/4*		ZLS201E38 (Cu bus bar)	2CCF800173R0001
ZLS905E38-3L	2CCA183118R0001	4	8	ZLS908	2CCA183030R0001
		1	6	ZLS906	2CCA183035R0001
		1		ZLS920 (End part)	2CCA183017R0001
ZLS905E38-3LN*	2CCA183119R0001	3/4*		ZLS201E46 (Cu bus bar)	2CCF800177R0001
ZLS905E46-3L	2CCA183126R0001	5	8	ZLS908	2CCA183030R0001
		1	6	ZLS906	2CCA183035R0001
		1		ZLS920 (End part)	2CCA183017R0001
ZLS905E46-3LN*	2CCA183127R0001	3/4*		ZLS201E54 (Cu bus bar)	
ZLS905E46-3L	2CCA183126R0001	9	8	ZLS908	2CCA183030R0001
		1		ZLS920 (End part)	2CCA183017R0001
ZLS905E46-3LN*	2CCA183127R0001	3/4*		ZLS201E72 (Cu bus bar)	2CCF800190R0001

* For version with N (4-pole)

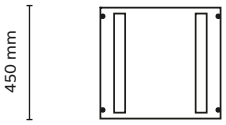
Planning note

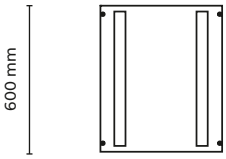
Additional starter kit with AB-bus bar on demand.

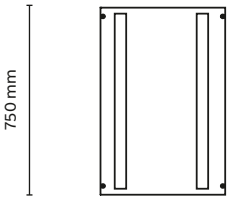
Subdistribution boards

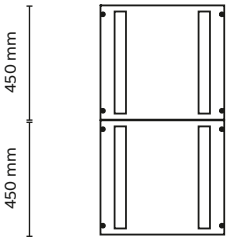
System pro E® energy Combi

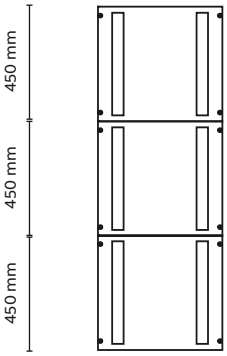
Planning aid SMISSLINE TP 125 A











Modules for the cabinets Type	Panel width	Panel height	Socket base length SU	Pieces
1x QXEV64501	600 mm	450 mm	2 x 22 SU	2
1x QXEV84501	800 mm			2
1x QXEV66001	600 mm	600 mm	2 x 30 SU	2
1x QXEV86001	800 mm			2
1X QXEV67501	600 mm	750 mm	2 x 38 SU	2
1X QXEV87501	800 mm			2
2x QXEV44501	600 mm	900 mm	2 x 46 SU	2
				2
3x QXEV84501	800 mm	1350 mm	2 x 72 SU	2
				2

Planning note

When positioning incoming terminal blocks under cover joints, use the lower terminal blocks ZLS228 or ZLS229.

Vertical

Socket base starter kit				Socket base in individual parts	
Type	**Order code**	**Pieces**	**Space units**	**Type**	**Order code**
ZLS905E22-3L	2CCA183102R0001	4	8	ZLS908	2CCA183030R0001
		2	6	ZLS906	2CCA183035R0001
		2	-	ZLS920 (End part)	2CCA183017R0001
ZLS905E22-3LN*	2CCA183103R0001	6/8*	-	ZLS201E22 (Cu bus bar)	2CCF800169R0001
ZLS905E30-3L	2CCA183110R0001	6	8	ZLS908	2CCA183030R0001
		2	6	ZLS906	2CCA183035R0001
		2	-	ZLS920 (End part)	2CCA183017R0001
ZLS905E30-3LN*	2CCA183111R0001	6/8*	-	ZLS201E38 (Cu bus bar)	2CCF800173R0001
ZLS905E38-3L	2CCA183118R0001	8	8	ZLS908	2CCA183030R0001
		2	6	ZLS906	2CCA183035R0001
		2	-	ZLS920 (End part)	2CCA183017R0001
ZLS905E38-3LN*	2CCA183119R0001	6/8*	-	ZLS201E54 (Cu bus bar)	
ZLS905E46-3L	2CCA183126R0001	10	8	ZLS908	2CCA183030R0001
		2	6	ZLS906	2CCA183035R0001
		2	-	ZLS920 (end piece)	2CCA183017R0001
ZLS905E46-3LN*	2CCA183127R0001	6/8*	-	ZLS201E46 (copper rail)	2CCF800177R0001
ZLS905E46-3L	2CCA183126R0001	18	8	ZLS908	2CCA183030R0001
		2	-	ZLS920 (End part)	2CCA183017R0001
ZLS905E46-3LN*	2CCA183127R0001	6/8*	-	ZLS201E72 (Cu bus bar)	2CCF800190R0001

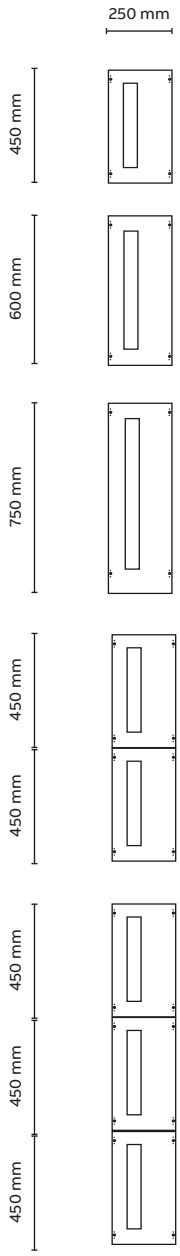
* For version with N (4-pole)

Planning note

Additional starter kit with AB-bus bar on demand.

Subdistribution boards

System pro E® energy Combi
Planning aid SMISSLINE TP 250 A



Modules for the cabinets Type	Panel width	Panel height	Socket base length SU	Pieces
1x QXEV44502	400 mm	450 mm	22 SU	
1x QXEV46002	400 mm	600 mm	30 SU	1
				1
1X QXEV47502	400 mm	750 mm	38 SU	1
				1
2x QXEV44502	400 mm	900 mm	46 SU	1
				1
3x QXEV44502	400 mm	1350 mm	72 SU	1
				1

Planning note
When positioning incoming terminal blocks under cover joints, use the lower terminal blocks ZLS228 or ZLS229.
Vertical

Socket base starter kit				Socket base in individual parts	
Type	**Order code**	**Pieces**	**Space units**	**Type**	**Order code**
ZLSP905E30-3L	2CCF212200A0001	3	8	ZLSP908	2CCF212052A0001
		1	6	ZLSP906	2CCF212053A0001
		1		ZLSP920 (End part)	2CCF212082A0001 Sockel
ZLSP905E30-3LN*	2CCF212300A0001	3/4*		ZLSP1 250E30	2CCF212100M0030
ZLSP905E38-3L	2CCF212204A0001	4	8	ZLSP908	2CCF212052A0001
		1	6	ZLSP906	2CCF212053A0001
		1		ZLSP920 (End part)	2CCF212082A0001 Sockel
ZLSP905E38-3LN*	2CCF212304A0001	3/4*		ZLSP1 250E38	2CCF212100M0038
ZLSP905E46-3L	2CCA183126R0001	5	8	ZLSP908	2CCF212052A0001
		1	6	ZLSP906	2CCF212053A0001
		1		ZLSP920 (End part)	2CCF212082A0001 Sockel
ZLSP905E46-3LN*	2CCA183127R0001	3/4*		ZLSP1 250E46	2CCF212100M0046
ZLSP905E46-3L	2CCA183126R0001	9	8	ZLSP908	2CCF212052A0001
				ZLSP906	2CCF212053A0001
		1		ZLSP920 (End part)	2CCF212082A0001 Sockel
ZLSP905E46-3LN*	2CCA183127R0001	3/4*		ZLSP1 250E72	2CCF212100M0072

* For version with N (4-pole)

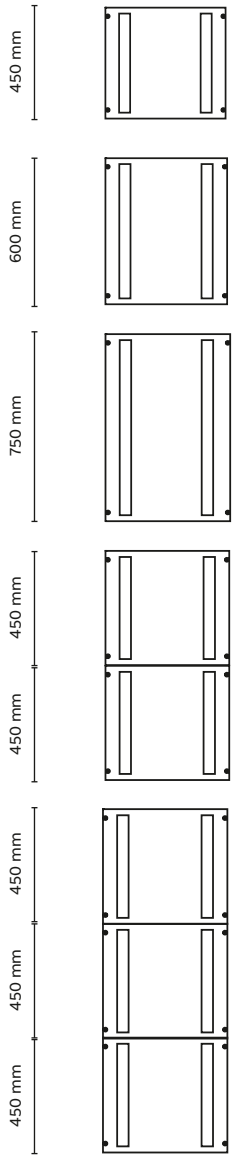
Planning note

Additional starter kit with AB-bus bar on demand.

Subdistribution boards

System pro E® energy Combi

Planning aid SMISSLINE TP 250 A



Modules for the cabinets Type	Panel width	Panel height	Socket base length SU	Pieces
1x QXEV64502	600 mm	450 mm	2x 22 SU	
1x QXEV84502	800 mm			
1x QXEV66002	600 mm	600 mm	2x 30 SU	2
1x QXEV86002	800 mm			2
1X QXEV67502	600 mm	750 mm	2x 38 SU	2
1x QXEV87502	800 mm			2
2x QXEV64502	600 mm	900 mm	2x 46 SU	2
2x QXEV84502	800 mm			2
3x QXEV64502	600 mm	1350 mm	2x 72 SU	2
3x QXEV84502	800 mm			2

Planning note

When positioning incoming terminal blocks under cover joints, use the lower terminal blocks ZLS228 or ZLS229.

Vertical

Socket base starter kit				Socket base in individual parts	
Type	**Order code**	**Pieces**	**Space units**	**Type**	**Order code**
ZLSP905E30-3L	2CCA183110R0001	6	8	ZLSP908	2CCF212052A0001
		2	6	ZLSP906	2CCF212053A0001
		2		ZLSP920 (End part)	2CCF212082A0001 Sockel
		6/8*		ZLSP1 250E30	2CCF212100M0030
ZLSP905E38-3L	2CCA183118R0001	8	8	ZLSP908	2CCF212052A0001
		2	6	ZLSP906	2CCF212053A0001
		2		ZLSP920 (End part)	2CCF212082A0001 Sockel
ZLSP905E38-3LN*	2CCA183119R0001	6/8*		ZLSP1 250E38	2CCF212100M0038
ZLSP905E46-3L	2CCA183126R0001	10	8	ZLSP908	2CCF212052A0001
		2	6	ZLSP906	2CCF212053A0001
		2		ZLSP920 (End part)	2CCF212082A0001 Sockel
ZLSP905E46-3LN*	2CCA183127R0001	6/8*		ZLSP1 250E46	2CCF212100M0046
ZLSP905E46-3L	2CCA183126R0001	18	8	ZLSP908	2CCF212052A0001
				ZLSP906	2CCF212053A0001
		2		ZLSP920 (End part)	2CCF212082A0001 Sockel
ZLSP905E46-3LN*	2CCA183127R0001	6/8*		ZLSP1 250E72	2CCF212100M0072

* For version with N (4-pole)

Planning note

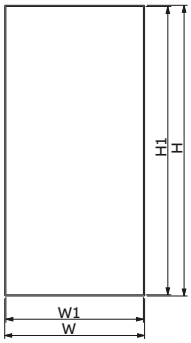
Additional starter kit with AB-bus bar on demand.

Subdistribution boards

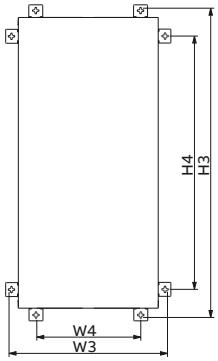
System pro E® energy L

Dimensions of cabinets

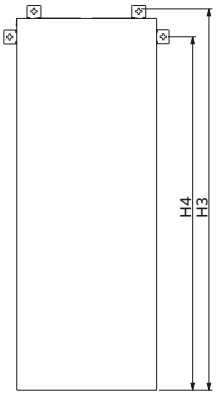
Front view
Wall-mounting and floor-standing cabinet
External/internal dimensions



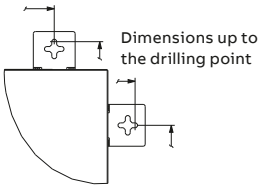
Front view
Wall-mounting cabinet
Wall fastening dimensions

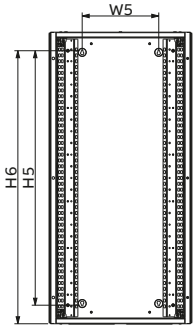


Front view
Floor-standing cabinet
Wall fastening dimensions



Front view
External fastening
Detail





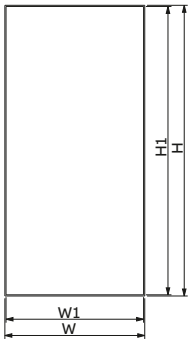
Cabinet			External dimensions			Wall fastening dimensions						
H	**W**	**D**	**H1**	**W1**	**D1**	**H3**	**W3**	**H4**	**W4**	**W5**	**H5**	**H6**
600	400	250	649	385	250	731	466	490	235	112	490	570
800	400	250	849	385	250	931	466	690	235	112	690	770
1000	400	250	1049	385	250	1131	466	890	235	112	890	970
1200	400	250	1249	385	250	1331	466	1090	235	112	1090	1170
1400	400	250	1449	385	250	1531	466	1290	235	112	1290	1370
1600	400	250	1649	385	250	1731	466	1490	235	112	1490	1570
1800	400	250	1849	385	250	1931	466	1690	235	112	1690	1770
2000	400	250	2049	385	250	2131	466	1890	235	112	1890	1970
600	600	250	649	600	250	731	682	490	451	328	490	570
800	600	250	849	600	250	931	682	690	451	328	690	770
1000	600	250	1049	600	250	1131	682	890	451	328	890	970
1200	600	250	1249	600	250	1331	682	1090	451	328	1090	1170
1400	600	250	1449	600	250	1531	682	1290	451	328	1290	1370
1600	600	250	1649	600	250	1731	682	1490	451	328	1490	1570
1800	600	250	1849	600	250	1931	682	1690	451	328	1690	1770
2000	600	250	2049	600	250	2131	682	1890	451	328	1890	1970
600	800	250	649	817	250	731	898	490	667	544	490	570
800	800	250	849	817	250	931	898	690	667	544	690	770
1000	800	250	1049	817	250	1131	898	890	667	544	890	970
1200	800	250	1249	817	250	1331	898	1090	667	544	1090	1170
1400	800	250	1449	817	250	1531	898	1290	667	544	1290	1370
1600	800	250	1649	817	250	1731	898	1490	667	544	1490	1570
1800	800	250	1849	817	250	1931	898	1690	667	544	1690	1770
2000	800	250	2049	817	250	2131	898	1890	667	544	1890	1970

Subdistribution boards

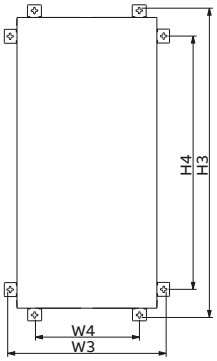
System pro E® energy M

Dimensions of cabinets

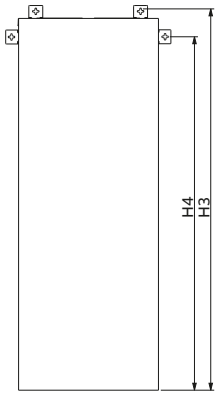
Front view
Wall-mounting and
floor-standing cabinet
External/internal dimensions



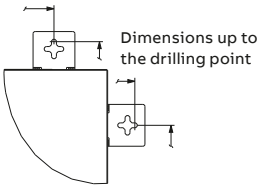
Front view
Wall-mounting cabinet
Wall fastening dimensions



Front view
Floor-standing cabinet
Wall fastening dimensions



Front view
External fastening
Detail



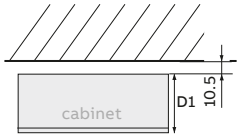
Cabinet			External dimensions			Wall fastening dimensions			
H	**W**	**D**	**H1**	**W1**	**D1**	**H3**	**W3**	**H4**	**W4**
600	400	250	649	396	250	731	478	490	235
800	400	250	849	396	250	931	478	690	235
1000	400	250	1049	396	250	1131	478	890	235
1200	400	250	1249	396	250	1331	478	1090	235
1400	400	250	1449	396	250	1531	478	1290	235
1600	400	250	1649	396	250	1731	478	1490	235
1800	400	250	1849	396	250	1931	478	1690	235
2000	400	250	2049	396	250	2131	478	1890	235
600	600	250	649	612	250	731	694	490	451
800	600	250	849	612	250	931	694	690	451
1000	600	250	1049	612	250	1131	694	890	451
1200	600	250	1249	612	250	1331	694	1090	451
1400	600	250	1449	612	250	1531	694	1290	451
1600	600	250	1649	612	250	1731	694	1490	451
1800	600	250	1849	612	250	1931	694	1690	451
2000	600	250	2049	612	250	2131	694	1890	451
600	800	250	649	828	250	731	910	490	667
800	800	250	849	828	250	931	910	690	667
1000	800	250	1049	828	250	1131	910	890	667
1200	800	250	1249	828	250	1331	910	1090	667
1400	800	250	1449	828	250	1531	910	1290	667
1600	800	250	1649	828	250	1731	910	1490	667
1800	800	250	1849	828	250	1931	910	1690	667
2000	800	250	2049	828	250	2131	910	1890	667

Subdistribution boards

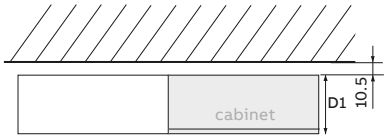
System pro E® energy L

Power loss and weights of cabinets

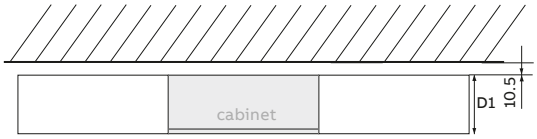
Type of installation
Separate cabinet wall mounted



Type of installation
First or last cabinet wall mounted



Type of installation
Central cabinet wall mounted



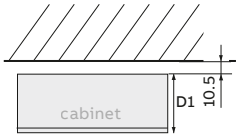
Cabinet types Height×Width×Depth in mm	Power loss in Watt												Cabinet weight in kg		Max. installation weight in kg
	Separate cabinet wall mounted				First or last cabinet wall mounted				Central cabinet wall mounted						
	25 °C	30 °C	35 °C	40 °C	25 °C	30 °C	35 °C	40 °C	25 °C	30 °C	35 °C	40 °C	With door	Without door	
600×400×250	31	45	59	74	33	47	62	77	30	44	57	72	19.4	14.3	15
800×400×250	38	55	72	91	40	57	76	95	37	53	70	88	23.8	17.6	20
1000×400×250	45	65	86	107	47	68	90	113	44	63	83	104	28.3	21	31
1200×400×250	38	55	72	91	40	58	76	95	37	53	70	87	32.8	24.4	37
1400×400×250	45	64	85	106	47	67	88	111	43	62	82	103	37.7	28.2	43
1600×400×250	51	73	97	121	54	77	102	128	49	70	93	116	42.1	31.5	48
1800×400×250	59	85	112	140	63	89	118	148	56	80	106	133	46.8	35.1	60
2000×400×250	67	96	126	158	71	101	134	168	64	91	121	151	51.5	38.7	72
600×600×250	42	60	80	100	40	57	75	94	37	51	71	89	24.4	17.4	30
800×600×250	51	72	95	120	48	68	90	113	44	64	84	105	29.8	21.2	40
1000×600×250	49	69	91	115	45	65	85	107	43	62	82	103	35.4	25.3	63
1200×600×250	55	78	103	130	52	74	97	122	49	71	94	117	40.7	29.1	75
1400×600×250	62	88	116	146	57	81	107	135	53	76	100	126	46.5	33.4	85
1600×600×250	71	102	135	169	66	95	125	157	62	89	117	147	51.9	37.2	95
1800×600×250	84	119	158	198	76	109	144	181	71	101	134	168	57.6	41.4	120
2000×600×250	94	134	176	221	87	125	165	207	81	116	153	191	63.2	45.4	130
600×800×250	54	77	102	128	52	74	97	122	49	70	92	116	29.9	21.1	45
800×800×250	55	79	104	130	53	75	99	125	51	73	97	121	36.2	25.4	61
1000×800×250	64	92	121	152	61	87	115	144	59	85	112	140	42.9	30	95
1200×800×250	75	107	142	178	71	102	135	169	68	98	129	162	49.3	34.4	112
1400×800×250	88	126	166	208	82	117	155	194	78	111	147	184	56.1	39.2	129
1600×800×250	98	141	186	233	93	133	176	221	89	128	169	212	62.5	43.5	145
1800×800×250	107	153	201	253	101	145	191	240	96	138	182	229	69.2	48.2	180
2000×800×250	119	170	225	282	113	162	214	268	109	156	206	259	75.7	52.7	195

Subdistribution boards

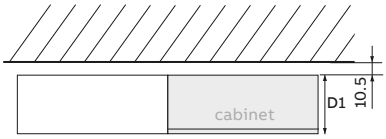
System pro E® energy M

Power loss and weights of cabinets

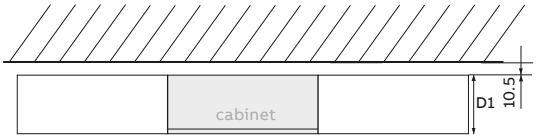
Type of installation
Separate cabinet wall mounted



Type of installation
First or last cabinet wall mounted



Type of installation
Central cabinet wall mounted



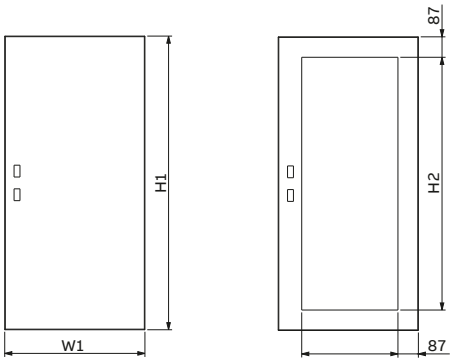
Cabinet types Height×Width×Depth in mm	Power loss in Watt												Cabinet weight in kg		Max. installation weight in kg
	Separate cabinet wall mounted				First or last cabinet wall mounted				Central cabinet wall mounted						
	25 °C	30 °C	35 °C	40 °C	25 °C	30 °C	35 °C	40 °C	25 °C	30 °C	35 °C	40 °C	With door	Without door	
600×400×250	31	45	59	74	33	47	62	77	30	44	57	72	19.3	14.2	15
800×400×250	38	55	72	91	40	57	76	95	37	53	70	88	23.4	17.2	20
1000×400×250	45	65	86	107	47	68	90	113	44	63	83	104	27.9	20.6	31
1200×400×250	38	55	72	91	40	58	76	95	37	53	70	87	32.4	24	37
1400×400×250	45	64	85	106	47	67	88	111	43	62	82	103	36.9	27.4	43
1600×400×250	51	73	97	121	54	77	102	128	49	70	93	116	41.3	30.7	48
1800×400×250	59	85	112	140	63	89	118	148	56	80	106	133	46.0	34.3	60
2000×400×250	67	96	126	158	71	101	134	168	64	91	121	151	50.3	37.5	72
600×600×250	42	60	80	100	40	57	75	94	37	51	71	89	24.2	17.2	30
800×600×250	51	72	95	120	48	68	90	113	44	64	84	105	29.3	20.7	40
1000×600×250	49	69	91	115	45	65	85	107	43	62	82	103	34.8	24.7	63
1200×600×250	55	78	103	130	52	74	97	122	49	71	94	117	40.1	28.5	75
1400×600×250	62	88	116	146	57	81	107	135	53	76	100	126	45.5	32.4	85
1600×600×250	71	102	135	169	66	95	125	157	62	89	117	147	50.9	36.2	95
1800×600×250	84	119	158	198	76	109	144	181	71	101	134	168	56.9	40.7	120
2000×600×250	94	134	176	221	87	125	165	207	81	116	153	191	61.9	44.1	130
600×800×250	54	77	102	128	52	74	97	122	49	70	92	116	29.4	20.6	45
800×800×250	55	79	104	130	53	75	99	125	51	73	97	121	35.4	24.6	61
1000×800×250	64	92	121	152	61	87	115	144	59	85	112	140	41.9	29	95
1200×800×250	75	107	142	178	71	102	135	169	68	98	129	162	48.3	33.4	112
1400×800×250	88	126	166	208	82	117	155	194	78	111	147	184	54.7	37.8	129
1600×800×250	98	141	186	233	93	133	176	221	89	128	169	212	61.2	42.2	145
1800×800×250	107	153	201	253	101	145	191	240	96	138	182	229	67.7	46.7	180
2000×800×250	119	170	225	282	113	162	214	268	109	156	206	259	74.1	51.1	195

Subdistribution boards

System pro E® energy L and M

Plain Doors – Dimensions and weights

External dimensions **Dimensions of usable connection area**



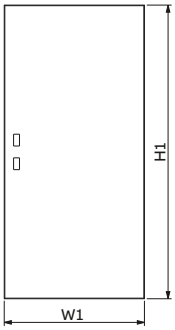
Sheet steel doors	External dimensions Height×Width in mm		Internal dimensions Height×Width in mm		Weight	Max. installation weight
Type	H1	W1	H2	W2	in kg	in kg
Q855D406	642	377	468	190	5.1	5.0
Q855D408	842	377	668	190	6.2	5.0
Q855D410	1042	377	868	190	7.3	5.0
Q855D412	1242	377	1068	190	8.4	5.0
Q855D414	1442	377	1268	190	9.5	5.0
Q855D416	1642	377	1468	190	10.6	5.0
Q855D418	1842	377	1668	190	11.7	5.0
Q855D420	2042	377	1868	190	12.8	5.0
Q855D606	642	593	468	406	7.0	5.0
Q855D608	842	593	668	406	8.6	5.0
Q855D610	1042	593	868	406	10.1	5.0
Q855D612	1242	593	1068	406	11.6	5.0
Q855D614	1442	593	1268	406	13.1	5.0
Q855D616	1642	593	1468	406	14.7	5.0
Q855D618	1842	593	1668	406	16.2	5.0
Q855D620	2042	593	1868	406	17.8	5.0
Q855D806	642	809	468	622	8.8	7.5
Q855D808	842	809	668	622	10.8	7.5
Q855D810	1042	809	868	622	12.9	7.5
Q855D812	1242	809	1068	622	14.9	7.5
Q855D814	1442	809	1268	622	16.9	7.5
Q855D816	1642	809	1468	622	19.0	7.5
Q855D818	1842	809	1668	622	21.0	7.5
Q855D820	2042	809	1868	622	23.0	7.5

Subdistribution boards

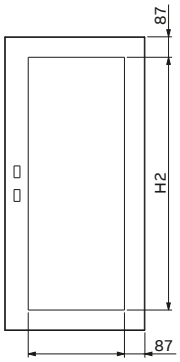
System pro E® energy L and M

Transparent Doors – Dimensions and weights

External dimensions



Transparent area



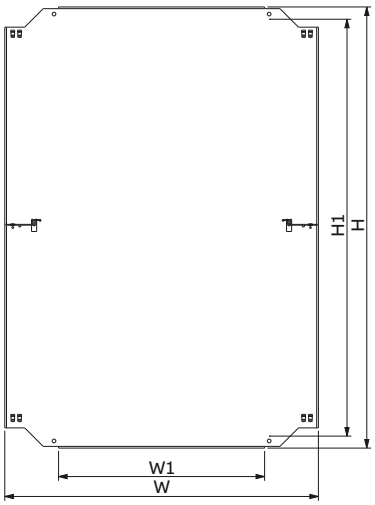
Transparent doors	External dimensions Height×Width in mm		Internal dimensions Height×Width in mm		Weight	Max. installation weight
Type	H1	W1	H2	W2	in kg	in kg
Q855G406	642	377	468	190	5.1	5.0
Q855G408	842	377	668	190	6.2	5.0
Q855G410	1042	377	868	190	7.3	5.0
Q855G412	1242	377	1068	190	8.4	5.0
Q855G414	1442	377	1268	190	9.5	5.0
Q855G416	1642	377	1468	190	10.6	5.0
Q855G418	1842	377	1668	190	11.7	5.0
Q855G420	2042	377	1868	190	12.8	5.0
Q855G606	642	593	468	406	7.0	5.0
Q855G608	842	593	668	406	8.6	5.0
Q855G610	1042	593	868	406	10.1	5.0
Q855G612	1242	593	1068	406	11.6	5.0
Q855G614	1442	593	1268	406	13.1	5.0
Q855G616	1642	593	1468	406	14.7	5.0
Q855G618	1842	593	1668	406	16.2	5.0
Q855G620	2042	593	1868	406	17.8	5.0
Q855G806	642	809	468	622	8.8	7.5
Q855G808	842	809	668	622	10.8	7.5
Q855G810	1042	809	868	622	12.9	7.5
Q855G812	1242	809	1068	622	14.9	7.5
Q855G814	1442	809	1268	622	16.9	7.5
Q855G816	1642	809	1468	622	19.0	7.5
Q855G818	1842	809	1668	622	21.0	7.5
Q855G820	2042	809	1868	622	23.0	7.5

Subdistribution boards

System pro E® energy L and M

Mounting plates

External dimensions / Usable connection area
Mounting plate



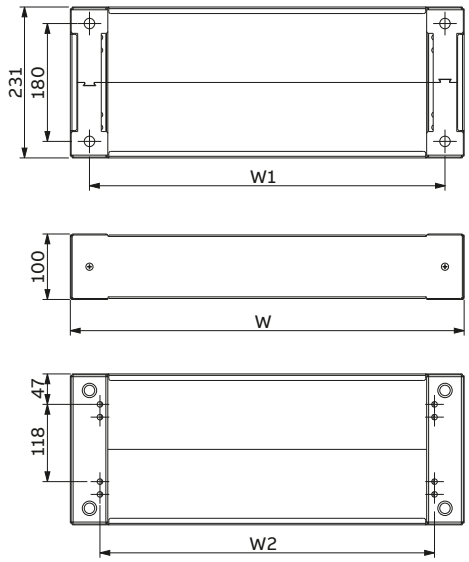
Transparent doors	External dimensions Height×Width in mm		Viewing area Height×Width in mm		Weight
Type	W	W1	H	H1	in kg
QM0403000	335	146	275	235	1.4
QM0601500	551	362	125	85	1.1
QM0602000	551	362	175	135	1.5
QM0602500	551	362	250	185	2.0
QM0603000	551	362	275	235	2.4
QM0604000	551	362	375	335	3.4
QM0605000	551	362	475	435	4.2
QM0606000	551	362	575	535	5.2
QM0608000	551	362	775	735	6.9
QM0609000	551	362	875	835	7.8
QM0610000	551	362	975	935	8.7
QM0801500	767	578	125	85	1.6
QM0802000	767	578	175	135	2.2
QM0802500	767	578	250	185	2.9
QM0803000	767	578	275	235	3.5
QM0804000	767	578	375	335	4.7
QM0805000	767	578	475	435	5.9
QM0806000	767	578	575	535	7.2
QM0808000	767	578	775	735	9.6
QM0809000	767	578	875	835	10.8
QM0810000	767	578	975	935	12.1

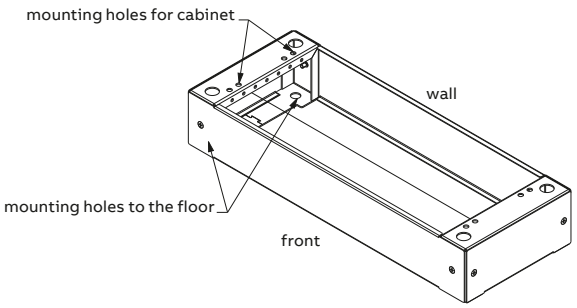
Subdistribution boards

System pro E® energy L and M

Plinth

External/internal dimensions
Plinth



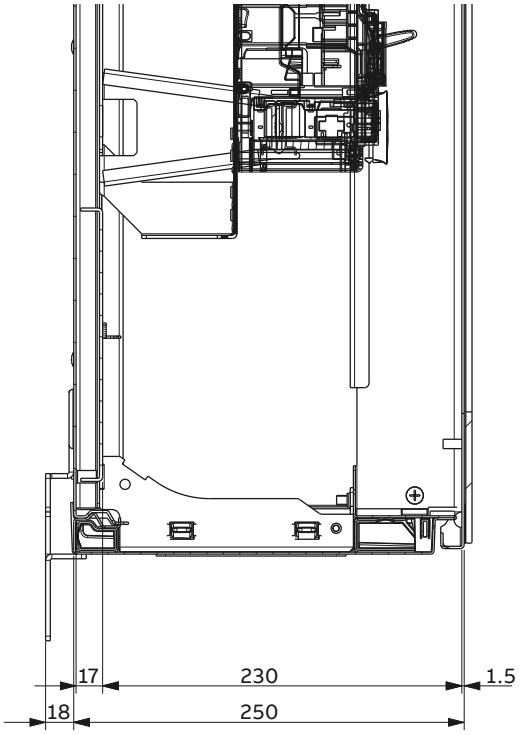


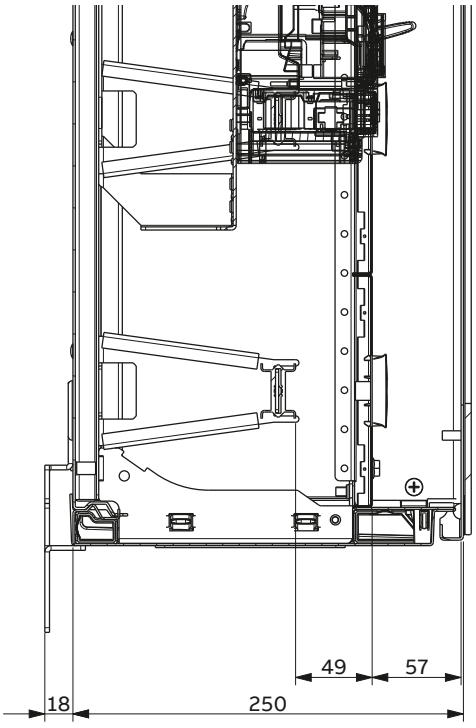
	External dimensions Width×Depth in mm		Internal dimensions Width×Depth in mm	Weight
Type	**W**	**W1**	**W2**	**in kg**
Q855P401	386	327	295	2.6
Q855P601	602	543	511	3.2
Q855P801	816	759	727	3.6

Subdistribution boards

System pro E® energy L

Side View

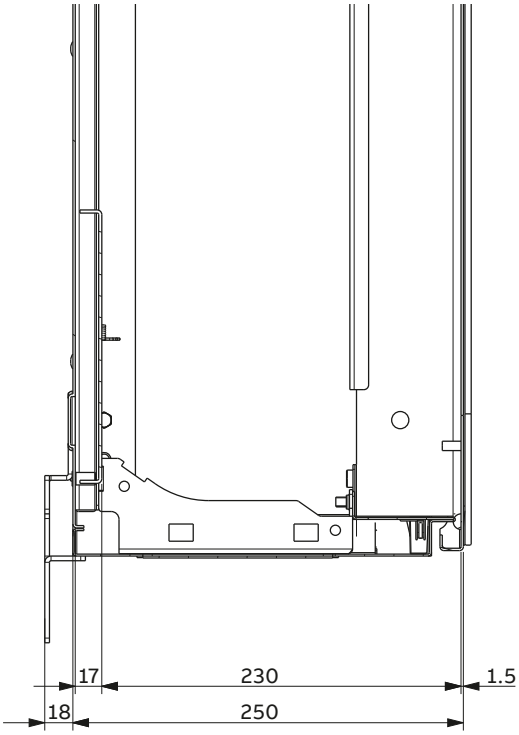


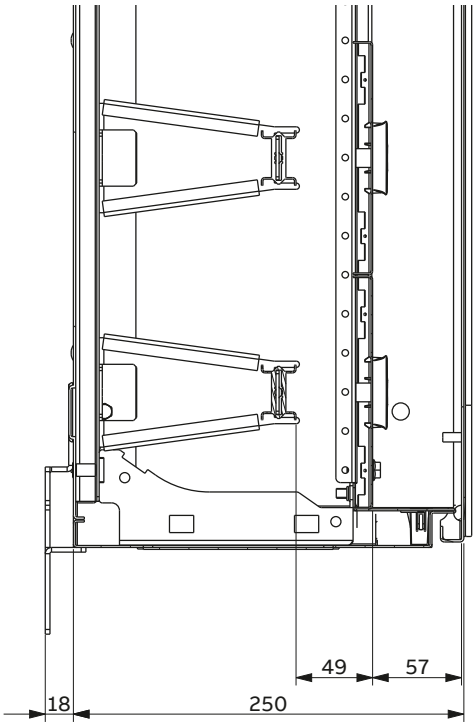


Subdistribution boards

System pro E® energy M

Side View

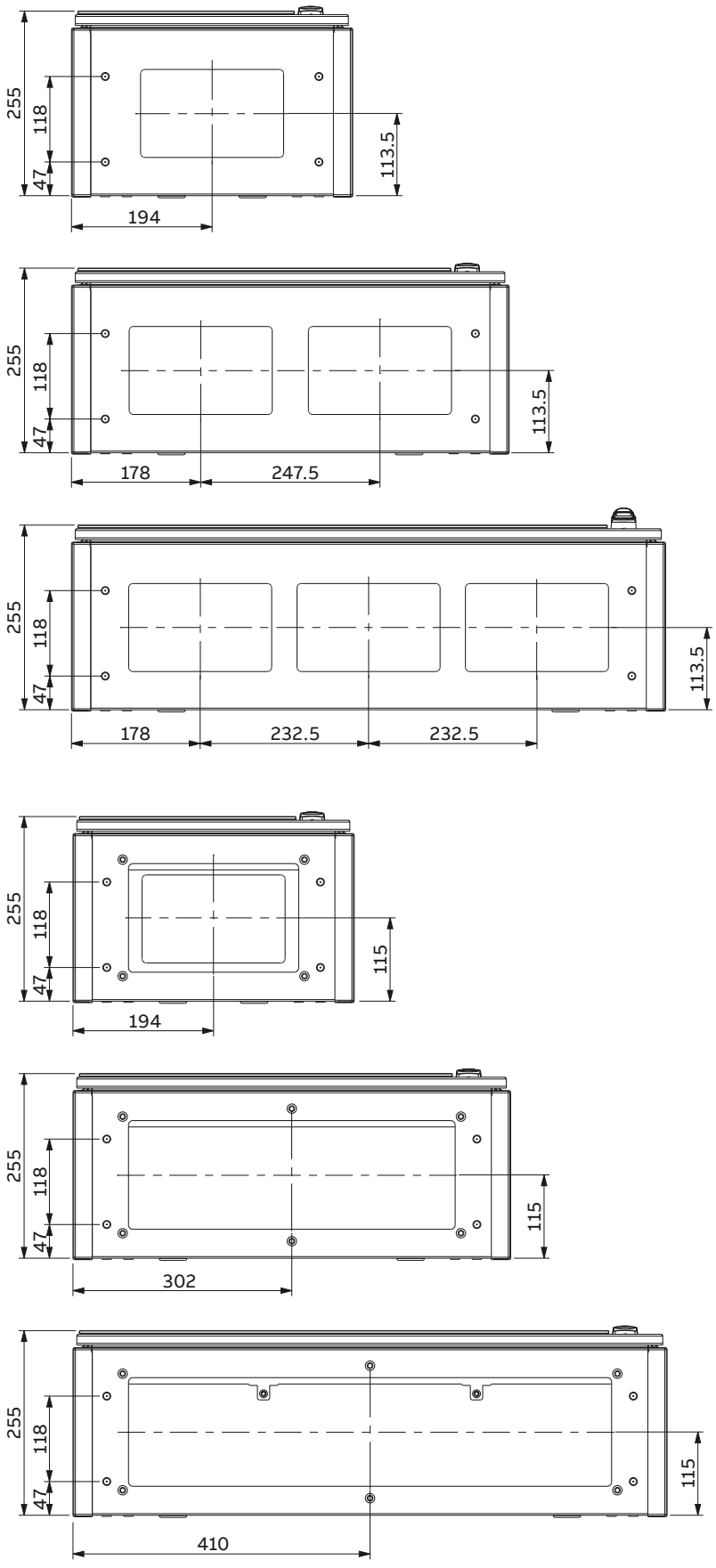




Subdistribution boards

System pro E® energy L

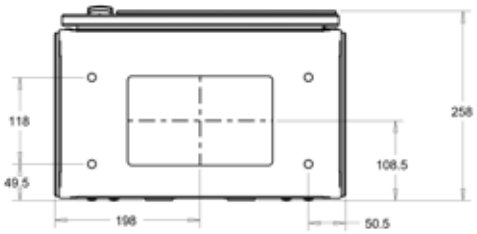
Top and Bottom views



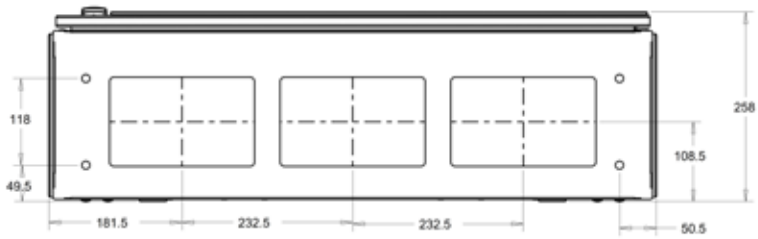
Subdistribution boards

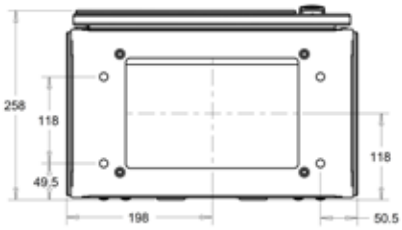
System pro E® energy M

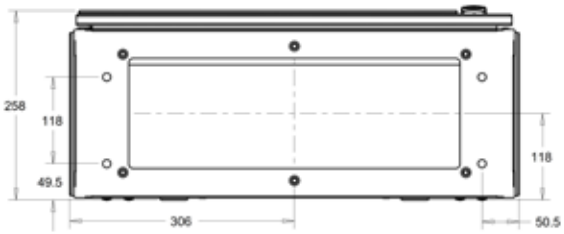
Top and Bottom views

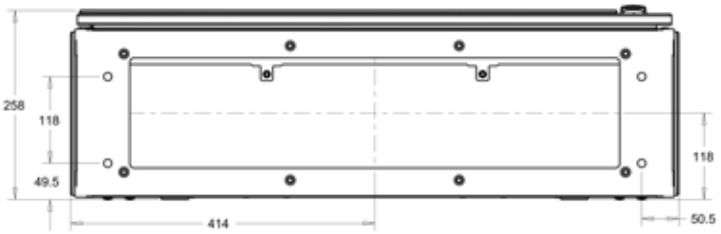










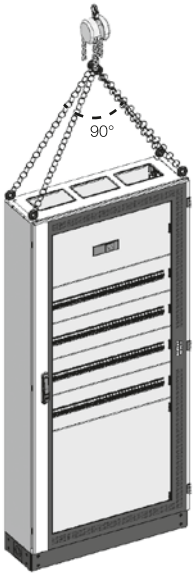


Subdistribution boards

System pro E® energy L and M
Transport by Crane

—
Lifting of the System pro E® energy is possible as indicated. Always use the ABB transportation lugs type ESAC3006P4 and for side-by-side structures lifting, use the reinforcement. Also consider the weight limits of the cabinets.

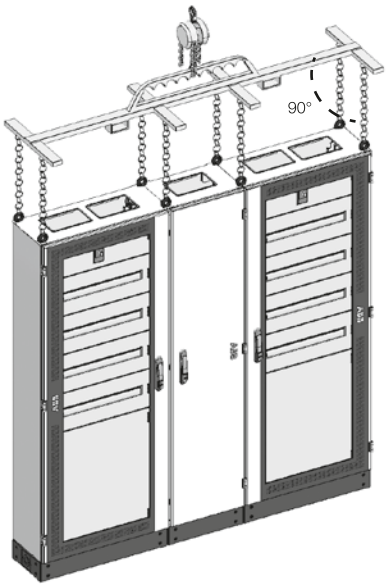
max. 150 kg



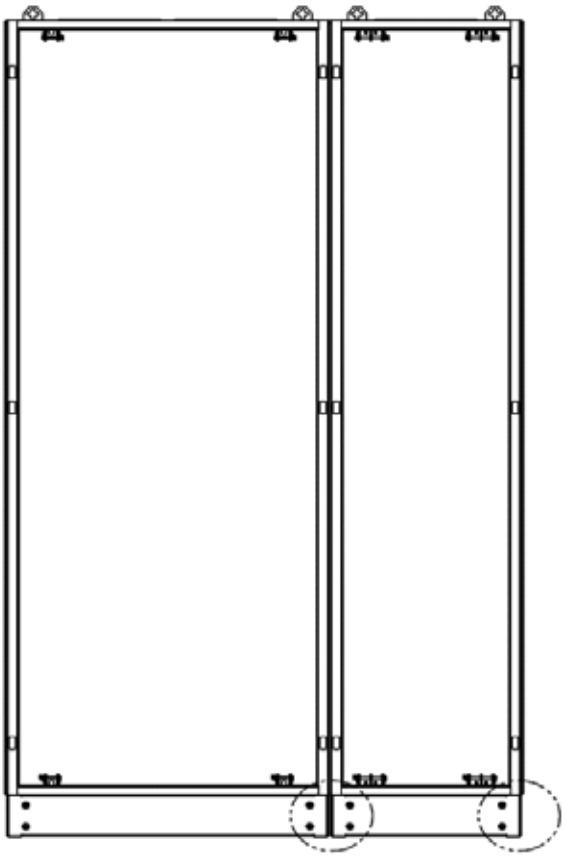
max. 180 kg



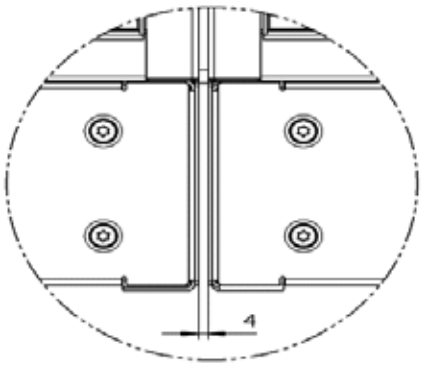
max. 420 kg



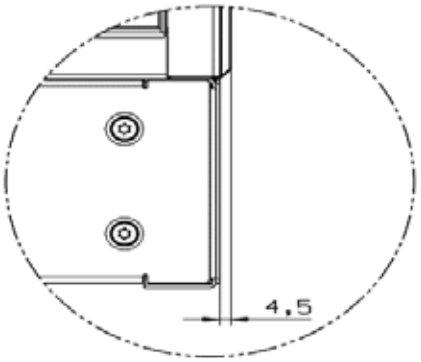
max. cabinet combinations
800 + 400 + 800 mm, wide cabinets



A (1:2)



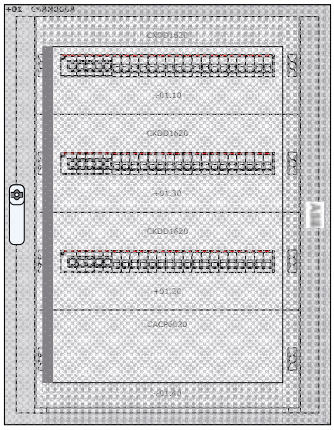
B (1:2)



Subdistribution boards

System pro E® energy L and M

Configuration examples



System pro E® energy L - IP43

Panel (800 × 600 × 250 mm)

	Order details			
Description	**Type**	**Order code**	**Price**	**Pcs.**
Cabinets: Back + Side panels W600 H800	Q843B608	1SZE430800B0100		1
Top & Bottom plain w/ pre-knock-out W600	Q843T611	1SZE430802B0011		1
Top & Bottom BIG Entry space W600	Q843T621	1SZE430802B0014		1
Flange metal TL Flange W600	Q855F621	1SZE990900B0021		1
Door transparent W600 H800	Q855G608	1SZE990920B0100		1
Kit DIN 1R W600 H200	QDS162000	1SZE980020B0060		3
Cover plain W600 H200	QCC062001	1SZE980010B0150		1

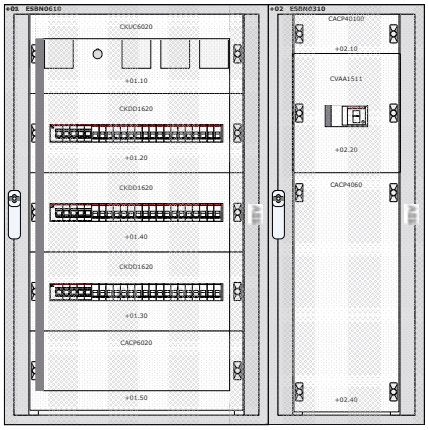
System pro E® energy M - IP55

Panel (800 × 600 × 250 mm)

	Order details			
Description	**Type**	**Order code**	**Price**	**Pcs.**
Cabinet: Monoblock enclosure W600 H800	Q855B608	1SZE550800B0100		1
Side wall System pro E energy M H800	Q855S008	1SZE550801B0020		1
Flange metal TL Flange W600	Q855F621	1SZE990900B0021		1
Door transparent W600 H800	Q855G608	1SZE990920B0100		1
Kit DIN 1R W600 H200	QDS162000	1SZE980020B0060		3
Cover plain W600 H200	QCC062001	1SZE980010B0150		1

Subdistribution boards

System pro E® energy L and M
Configuration examples



System pro E® energy L - IP43

Panel (1000 × 600 × 250 mm + 1000 × 400 × 250 mm)

System pro E® Combi with busbar 250 A

	Order details			
Description	**Type**	**Order code**	**Price**	**Pcs.**
Cabinets: Back + Side panels W600 H1000	Q843B610	1SZE430800B0110		1
Ext: Back + Coupling profiles W400 H1000	Q843E410	1SZE430801B0030		1
Top & Bottom plain w/ pre-knock-out W600	Q843T611	1SZE430802B0011		1
Top & Bottom BIG Entry space W600	Q843T621	1SZE430802B0014		1
Top & Bottom plain w/ pre-knock-out W400	Q843T411	1SZE430802B0010		2
Flange for 52 entries	TZ101	2CPX010450R9999		2
Flange 1 cable sl. 14-68mm	TZ112	2CPX010852R9999		1
Flange metal TL Flange W600	Q855F621	1SZE990900B0021		1
Door transparent W600 H1000	Q855G610	1SZE990920B0110		1
Door transparent W400 H1000	Q855G410	1SZE990920B0030		1
Cover plain W600 H50	QCC060501	1SZE980010B0120		1
Meter cover plates 96x96 W600 H150	QCM961500	1SZE980090B0040		1
Kit DIN 1R W600 H200	QDS162000	1SZE980020B0060		3
Cover plain W600 H200	QCC062001	1SZE980010B0150		1
Cover plain W400 H100	QCC041001	1SZE980010B0020		1
Tmax XT3 3/4p Vert W400 H300	QB3V43000	1SZE980040B0030		1
Cover plain W400 H600	QCC046001	1SZE980010B0090		1
Busbar holder V. 200/400 W Flat/Stairc.	QR6V4FS01	1SZE980120B0070		3
No.2 flat busbar 250 A	BR0250			1

System pro E® energy M - IP55

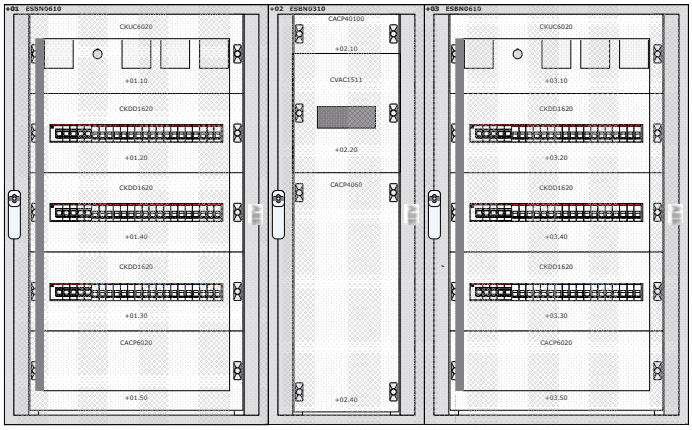
Panel (1000 × 600 × 250 mm + 1000 × 400 × 250 mm)

System pro E® Combi with busbar 250 A

	Order details			
Description	**Type**	**Order code**	**Price**	**Pcs.**
Cabinet: Monoblock enclosure W600 H1000	Q855B610	1SZE550800B0110		1
Cabinet: Monoblock enclosure W400 H1000	Q855B410	1SZE550800B0030		1
Side wall System pro E energy M H1000	Q855S010	1SZE550801B0030		1
Cabinet Connection set for Wall IP55	Q855E00W	1SZE550800B0310		1
Flange for 52 entries	TZ101	2CPX010450R9999		2
Flange 1 cable sl. 14-68mm	TZ112	2CPX010852R9999		1
Flange metal TL Flange W600	Q855F621	1SZE990900B0021		1
Door transparent W600 H1000	Q855G610	1SZE990920B0110		1
Door transparent W400 H1000	Q855G410	1SZE990920B0030		1
Cover plain W600 H50	QCC060501	1SZE980010B0120		1
Meter cover plates 96x96 W600 H150	QCM961500	1SZE980090B0040		1
Kit DIN 1R W600 H200	QDS162000	1SZE980020B0060		3
Cover plain W600 H200	QCC062001	1SZE980010B0150		1
Cover plain W400 H100	QCC041001	1SZE980010B0020		1
Tmax XT3 3/4p Vert W400 H300	QB3V43000	1SZE980040B0030		1
Cover plain W400 H600	QCC046001	1SZE980010B0090		1
Busbar holder V. 200/400 W Flat/Stairc.	QR6V4FS01	1SZE980120B0070		3
No.2 flat busbar 250 A	BR0250			1

Subdistribution boards

System pro E® energy L and M
Configuration examples



System pro E® energy L - IP43

Panel (1000 × 600 × 250 mm + 1000 × 400 × 250 mm+ 100 × 600× 250 mm)

System pro E® Combi with busbar 250 A

	Order details			
Description	**Type**	**Order code**	**Price**	**Pcs.**
Cabinets: Back + Side panels W600 H1000	Q843B610	1SZE430800B0110		2
Ext: Back + Coupling profiles W400 H1000	Q843E410	1SZE430801B0030		1
Top & Bottom plain w/ pre-knock-out W600	Q843T611	1SZE430802B0011		2
Top & Bottom BIG Entry space W600	Q843T621	1SZE430802B0014		2
Top & Bottom plain w/ pre-knock-out W400	Q843T411	1SZE430802B0010		2
Flange for 52 entries	TZ101	2CPX010450R9999		4
Flange 1 cable sl. 14-68mm	TZ112	2CPX010852R9999		1
Flange metal TL Flange W600	Q855F621	1SZE990900B0021		2
Door transparent W600 H1000	Q855G610	1SZE990920B0110		2
Door transparent W400 H1000	Q855G410	1SZE990920B0030		1
Cover plain W600 H50	QCC060501	1SZE980010B0120		2
Meter cover plates 96x96 W600 H150	QCM961500	1SZE980090B0040		2
Kit DIN 1R W600 H200	QDS162000	1SZE980020B0060		6
Cover plain W600 H200	QCC062001	1SZE980010B0150		2
Cover plain W400 H100	QCC041001	1SZE980010B0020		1
Tmax XT3 3/4p Vert W400 H300	QB3V43000	1SZE980040B0030		1
Cover plain W400 H600	QCC046001	1SZE980010B0090		1
Busbar holder V. 200/400 W Flat/Stairc.	QR6V4FS01	1SZE980120B0070		3
No.2 flat busbar 250 A	BR0250			1

System pro E® energy M - IP55

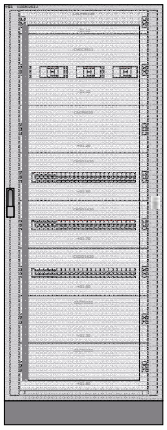
Panel (1000 × 600 × 250 mm + 1000 × 400 × 250 mm+ 100 × 600× 250 mm)

System pro E® Combi with busbar 250 A

	Order details			
Description	**Type**	**Order code**	**Price**	**Pcs.**
Cabinet: Monoblock enclosure W600 H1000	Q855B610	1SZE550800B0110		2
Cabinet: Monoblock enclosure W400 H1000	Q855B410	1SZE550800B0030		1
Side wall System pro E energy M H1000	Q855S010	1SZE550801B0030		1
Cabinet Connection set for Wall IP55	Q855E00W	1SZE550800B0310		2
Flange for 52 entries	TZ101	2CPX010450R9999		4
Flange 1 cable sl. 14-68mm	TZ112	2CPX010852R9999		1
Flange metal TL Flange W600	Q855F621	1SZE990900B0021		2
Door transparent W600 H1000	Q855G610	1SZE990920B0110		2
Door transparent W400 H1000	Q855G410	1SZE990920B0030		1
Cover plain W600 H50	QCC060501	1SZE980010B0120		2
Meter cover plates 96x96 W600 H150	QCM961500	1SZE980090B0040		2
Kit DIN 1R W600 H200	QDS162000	1SZE980020B0060		6
Cover plain W600 H200	QCC062001	1SZE980010B0150		2
Cover plain W400 H100	QCC041001	1SZE980010B0020		1
Tmax XT3 3/4p Vert W400 H300	QB3V43000	1SZE980040B0030		1
Cover plain W400 H600	QCC046001	1SZE980010B0090		1
Busbar holder V. 200/400 W Flat/Stairc.	QR6V4FS01	1SZE980120B0070		3
No.2 flat busbar 250 A	BR0250			1

Subdistribution boards

System pro E® energy L and M
Configuration examples



System pro E® energy L - IP43
Panel (1600 × 600 × 250 mm)
System pro E® Combi with busbar 250 A

	Order details			
Description	**Type**	**Order code**	**Price**	**Pcs.**
Cabinets: Back + Side panels W600 H1600	Q843B616	1SZE430800B0140		1
Top & Bottom plain w/ pre-knock-out W600	Q843T611	1SZE430802B0011		1
Top & Bottom BIG Entry space W600	Q843T621	1SZE430802B0014		1
Flange for 52 entries	TZ101	2CPX010450R9999		2
Flange metal TL Flange W600	Q855F621	1SZE990900B0021		1
Door transparent W600 H1600	Q855G616	1SZE990920B0140		1
Plinth 100 mm height W600	Q855P601	1SZE990940B0020		1
Cover plain W600 H50	QCC060501	1SZE980010B0120		1
Meter cover plates 96x96 W600 H150	QCM961500	1SZE980090B0040		1
3 Tmax XT2 3/4p Vert W800 H300	QB2V63003	1SZE980040B0260		1
Kit DIN 1R W600 H200	QDS162000	1SZE980020B0060		3
Cover plain W600 H200	QCC062001	1SZE980010B0150		1
Tmax XT4 3/4p Vert W600 H300	QB4V63000	1SZE980040B0120		1
Cover plain W600 H100	QCC061001	1SZE980010B0130		1
Busbar holder Vert. 600 W Flat/linear	QR6V6FF01	1SZE980120B0030		3
No.2 flat busbar 250 A	BR0250			4

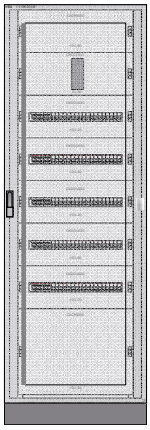
System pro E® energy M - IP55
Panel (1600 × 600 × 250 mm)
System pro E® Combi with busbar 250 A

	Order details			
Description	**Type**	**Order code**	**Price**	**Pcs.**
Cabinet: Monoblock enclosure W600 H1600	Q855B616	1SZE550800B0140		1
Side wall System pro E energy M H1600	Q855S016	1SZE550801B0060		1
Flange for 52 entries	TZ101	2CPX010450R9999		2
Flange metal TL Flange W600	Q855F621	1SZE990900B0021		1
Door transparent W600 H1600	Q855G616	1SZE990920B0140		1
Plinth 100 mm height W600	Q855P601	1SZE990940B0020		1
Cover plain W600 H50	QCC060501	1SZE980010B0120		1
Meter cover plates 96x96 W600 H150	QCM961500	1SZE980090B0040		1
3 Tmax XT2 3/4p Vert W800 H300	QB2V63003	1SZE980040B0260		1
Kit DIN 1R W600 H200	QDS162000	1SZE980020B0060		3
Cover plain W600 H200	QCC062001	1SZE980010B0150		1
Tmax XT4 3/4p Vert W600 H300	QB4V63000	1SZE980040B0120		1
Cover plain W600 H100	QCC061001	1SZE980010B0130		1
Busbar holder Vert. 600 W Flat/linear	QR6V6FF01	1SZE980120B0030		3
No.2 flat busbar 250 A	BR0250			4

Subdistribution boards

System pro E® energy L and M

Configuration examples



System pro E® energy L - IP43

Panel (1800 × 600 × 250 mm)

System pro E® Combi with busbar 250 A

	Order details			
Description	**Type**	**Order code**	**Price**	**Pcs.**
Cabinets: Back + Side panels W600 H1800	Q843B618	1SZE430800B0150		1
Top & Bottom plain w/ pre-knock-out W600	Q843T611	1SZE430802B0011		1
Top & Bottom BIG Entry space W600	Q843T621	1SZE430802B0014		1
Flange for 52 entries	TZ101	2CPX010450R9999		2
Flange metal TL Flange W600	Q855F621	1SZE990900B0021		1
Door transparent W600 H1800	Q855G618	1SZE990920B0150		1
Plinth 100 mm height W600	Q855P601	1SZE990940B0020		1
Cover plain W600 H200	QCC062001	1SZE980010B0150		1
Tmax XT2 3/4p Hor W600 H200	QB2H62000	1SZE980040B0340		1
Kit DIN 1R W600 H200	QDS162000	1SZE980020B0060		5
Cover plain W600 H400	QCC064001	1SZE980010B0180		1
Busbar holder Vert. 600 W Flat/linear	QR6V6FF01	1SZE980120B0030		4
No.2 flat busbar 250 A	BR0250			4

System pro E® energy M - IP55

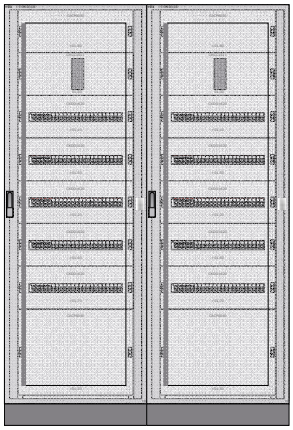
Panel (1800 × 600 × 250 mm)

System pro E® Combi with busbar 250 A

	Order details			
Description	**Type**	**Order code**	**Price**	**Pcs.**
Cabinet: Monoblock enclosure W600 H1800	Q855B618	1SZE550800B0150		1
Side wall System pro E energy M H1800	Q855S018	1SZE550801B0070		1
Top & Bottom BIG Entry space W600	Q843T621	1SZE430802B0014		1
Flange for 52 entries	TZ101	2CPX010450R9999		2
Flange metal TL Flange W600	Q855F621	1SZE990900B0021		1
Door transparent W600 H1800	Q855G618	1SZE990920B0150		1
Plinth 100 mm height W600	Q855P601	1SZE990940B0020		1
Cover plain W600 H200	QCC062001	1SZE980010B0150		1
Tmax XT2 3/4p Hor W600 H200	QB2H62000	1SZE980040B0340		1
Kit DIN 1R W600 H200	QDS162000	1SZE980020B0060		5
Cover plain W600 H400	QCC064001	1SZE980010B0180		1
Busbar holder Vert. 600 W Flat/linear	QR6V6FF01	1SZE980120B0030		4
No.2 flat busbar 250 A	BR0250			4

Subdistribution boards

System pro E® energy L and M
Configuration examples



System pro E® energy L - IP43
Panel (1800 × 600 × 250 mm + 1800 × 600 × 250 mm)
System pro E® Combi with busbar 630 A

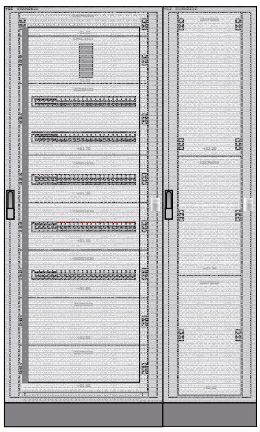
	Order details			
Description	**Type**	**Order code**	**Price**	**Pcs.**
Cabinets: Back + Side panels W600 H1800	Q843B618	1SZE430800B0150		1
Ext: Back + Coupling profiles W600 H1800	Q843E618	1SZE430801B0150		1
Top & Bottom plain w/ pre-knock-out W600	Q843T611	1SZE430802B0011		2
Top & Bottom BIG Entry space W600	Q843T621	1SZE430802B0014		2
Flange for 52 entries	TZ101	2CPX010450R9999		4
Flange metal TL Flange W600	Q855F621	1SZE990900B0021		2
Door transparent W600 H1800	Q855G618	1SZE990920B0150		2
Plinth 100 mm height W600	Q855P601	1SZE990940B0020		2
Cover plain W600 H200	QCC062001	1SZE980010B0150		2
Tmax XT2 3/4p Hor W600 H200	QB2H62000	1SZE980040B0340		2
Kit DIN 1R W600 H200	QDS162000	1SZE980020B0060		10
Cover plain W600 H400	QCC064001	1SZE980010B0180		2
Busbar holder Vert. 600 W Flat/linear	QR6V6FF01	1SZE980120B0030		8
No.2 flat busbar 250 A	BR0250			8

System pro E® energy M - IP55
Panel (1800 × 600 × 250 mm + 1800 × 600 × 250 mm)
System pro E® Combi with busbar 630 A

	Order details			
Description	**Type**	**Order code**	**Price**	**Pcs.**
Cabinet: Monoblock enclosure W600 H1800	Q855B618	1SZE550800B0150		2
Coupling set for Floorstanding IP55	Q855E00F	1SZE550800B0320		1
Side wall System pro E energy M H1800	Q855S018	1SZE550801B0070		1
Flange for 52 entries	TZ101	2CPX010450R9999		4
Flange metal TL Flange W600	Q855F621	1SZE990900B0021		2
Door transparent W600 H1800	Q855G618	1SZE990920B0150		2
Plinth 100 mm height W600	Q855P601	1SZE990940B0020		2
Cover plain W600 H200	QCC062001	1SZE980010B0150		2
Tmax XT2 3/4p Hor W600 H200	QB2H62000	1SZE980040B0340		2
Kit DIN 1R W600 H200	QDS162000	1SZE980020B0060		10
Cover plain W600 H400	QCC064001	1SZE980010B0180		2
Busbar holder Vert. 600 W Flat/linear	QR6V6FF01	1SZE980120B0030		8
No.2 flat busbar 250 A	BR0250			8
No.2 flat busbar 250 A	BR0250			8

Subdistribution boards

System pro E® energy L and M
Configuration examples



System pro E® energy L - IP55
Panel (1800 × 600 × 250 mm + 1800 × 400 × 250 mm)
System pro E® Combi with busbar 630 A

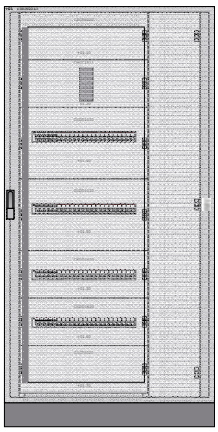
	Order details			
Description	**Type**	**Order code**	**Price**	**Pcs.**
Cabinets: Back + Side panels W600 H1800	Q843B618	1SZE430800B0150		1
Ext: Back + Coupling profiles W400 H1800	Q843E418	1SZE430801B0070		1
Top & Bottom plain w/ pre-knock-out W600	Q843T611	1SZE430802B0011		2
Top & Bottom BIG Entry space W600	Q843T621	1SZE430802B0014		2
Top & Bottom plain w/ pre-knock-out W400	Q843T411	1SZE430802B0010		2
Flange for 52 entries	TZ101	2CPX010450R9999		2
Flange metal TL Flange W600	Q855F621	1SZE990900B0021		1
Door transparent W600 H1800	Q855G618	1SZE990920B0150		1
Door plain W400 H1800	Q855D418	1SZE990910B0070		1
Plinth 100 mm height W600	Q855P601	1SZE990940B0020		2
Plinth 100 mm height W400	Q855P401	1SZE990940B0010		2
Cover plain W600 H200	QCC062001	1SZE980010B0150		2
Tmax XT2 3/4p Hor W600 H200	QB2H62000	1SZE980040B0340		2
Kit DIN 1R W600 H200	QDS162000	1SZE980020B0060		10
Cover plain W600 H400	QCC064001	1SZE980010B0180		2
Cover plain W400 H600	QCC046001	1SZE980010B0090		3
Busbar holder V. 200/400 W Shaped/Stairc	QR8V4SS01	1SZE980120B0060		6
No.2 shaped busbar 400 A	BA0400			4

System pro E® energy M - IP55
Panel (1800 × 600 × 250 mm + 1800 × 400 × 250 mm)
System pro E® Combi with busbar 630 A

	Order details			
Description	**Type**	**Order code**	**Price**	**Pcs.**
Cabinet: Monoblock enclosure W600 H1800	Q855B618	1SZE550800B0150		1
Cabinet: Monoblock enclosure W400 H1800	Q855B418	1SZE550800B0070		1
Side wall System pro E energy M H1800	Q855S018	1SZE550801B0070		1
Coupling set for Floorstanding IP55	Q855E00F	1SZE550800B0320		1
Flange for 52 entries	TZ101	2CPX010450R9999		2
Flange metal TL Flange W600	Q855F621	1SZE990900B0021		1
Door transparent W600 H1800	Q855G618	1SZE990920B0150		1
Door plain W400 H1800	Q855D418	1SZE990910B0070		1
Plinth 100 mm height W600	Q855P601	1SZE990940B0020		2
Plinth 100 mm height W400	Q855P401	1SZE990940B0010		2
Cover plain W600 H200	QCC062001	1SZE980010B0150		2
Tmax XT2 3/4p Hor W600 H200	QB2H62000	1SZE980040B0340		2
Kit DIN 1R W600 H200	QDS162000	1SZE980020B0060		10
Cover plain W600 H400	QCC064001	1SZE980010B0180		2
Cover plain W400 H600	QCC046001	1SZE980010B0090		3
Busbar holder V. 200/400 W Shaped/Stairc	QR8V4SS01	1SZE980120B0060		6
No.2 shaped busbar 400 A	BA0400			4
No.2 shaped busbar 400 A	BA0400			4

Subdistribution boards

System pro E® energy L and M
Configuration examples



System pro E® energy L - IP43
Panel (1800 × 800 × 250 mm with integrated cable compartment)
System pro E® Combi with busbar 250 A

	Order details			
Description	**Type**	**Order code**	**Price**	**Pcs.**
Cabinets: Back + Side panels W800 H1800	Q843B818	1SZE430800B0230		1
Integrated cable compartment H1800	Q830I218	1SZE990930B0070		1
Top & Bottom plain w/ pre-knock-out W800	Q843T811	1SZE430802B0012		1
Top & Bottom BIG Entry space W800	Q843T821	1SZE430802B0015		1
Flange for 52 entries	TZ101	2CPX010450R9999		3
Flange metal TL Flange W800	Q855F821	1SZE990900B0031		1
Door transparent W800 H1800	Q855G818	1SZE990920B0230		1
Plinth 100 mm height W800	Q855P801	1SZE990940B0030		2
Cover plain W600 H100	QCC061001	1SZE980010B0130		1
3 Tmax XT2 3/4p Vert W800 H300	QB2V63003	1SZE980040B0260		1
Cover plain W600 H100	QCC061001	1SZE980010B0130		1
Kit DIN 2R W600 H300	QDS263000	1SZE980020B0080		2
Kit DIN 1R W600 H200	QDS162000	1SZE980020B0060		3
Cover plain W600 H300	QCC063001	1SZE980010B0170		1
Busbar holder V. 200/400 W Shaped/Stairc	QR8V4SS01	1SZE980120B0060		6
No.2 shaped busbar 400 A	BA0400			4

System pro E® energy M - IP55
Panel (1800 × 800 × 250 mm with integrated cable compartment)
System pro E® Combi with busbar 250 A

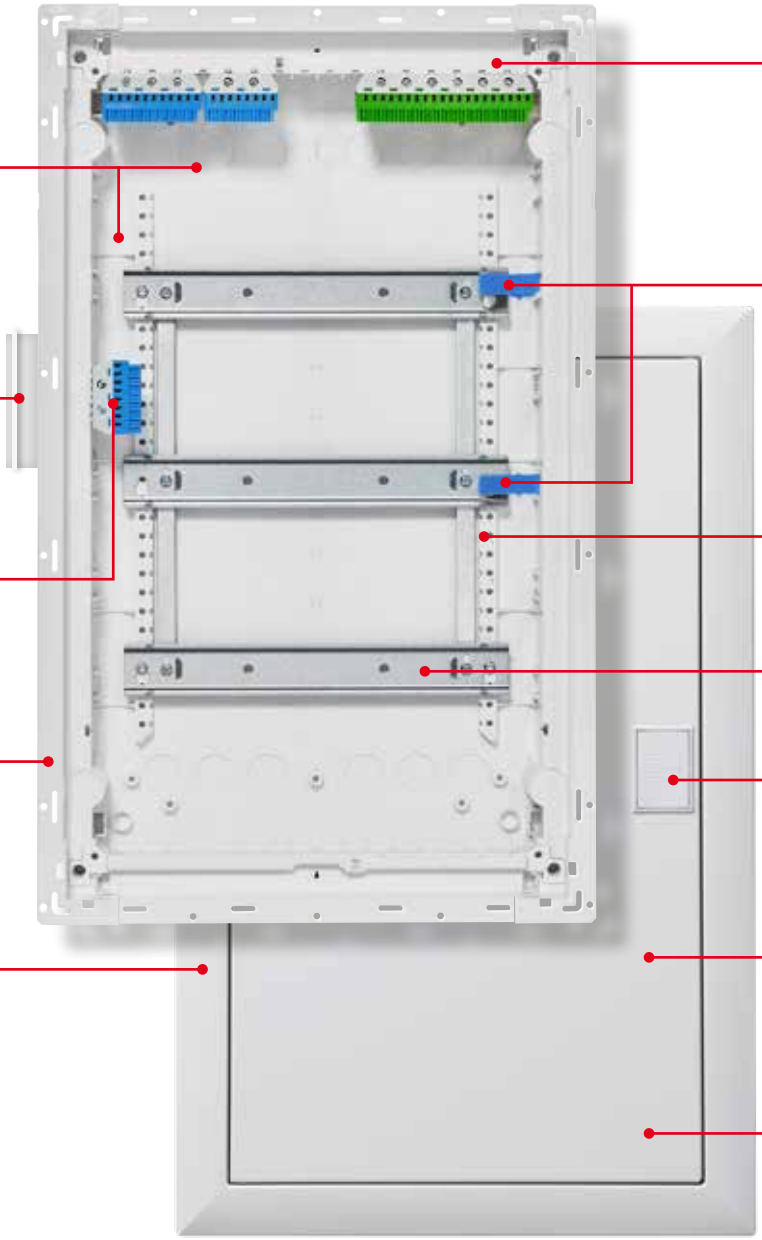
	Order details			
Description	**Type**	**Order code**	**Price**	**Pcs.**
Cabinet: Monoblock enclosure W800 H1800	Q855B818	1SZE550800B0230		1
Integrated cable compartment H1800	Q830I218	1SZE990930B0070		1
Side wall System pro E energy M H1800	Q855S018	1SZE550801B0070		1
Flange for 52 entries	TZ101	2CPX010450R9999		3
Flange metal TL Flange W800	Q855F821	1SZE990900B0031		1
Door transparent W800 H1800	Q855G818	1SZE990920B0230		1
Plinth 100 mm height W800	Q855P801	1SZE990940B0030		2
Cover plain W600 H100	QCC061001	1SZE980010B0130		1
3 Tmax XT2 3/4p Vert W800 H300	QB2V63003	1SZE980040B0260		1
Cover plain W600 H100	QCC061001	1SZE980010B0130		1
Kit DIN 2R W600 H300	QDS263000	1SZE980020B0080		2
Kit DIN 1R W600 H200	QDS162000	1SZE980020B0060		3
Cover plain W600 H300	QCC063001	1SZE980010B0170		1
Busbar holder V. 200/400 W Shaped/Stairc	QR8V4SS01	1SZE980120B0060		6
No.2 shaped busbar 400 A	BA0400			4

Electrical installation solutions for buildings
Consumer units

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UK600
Consumer units



Up to 200 % extended connection space

Connection set for horizontal and vertical connection

Terminals can be mounted to the side, space-saving and flexible

Enclosure for flush- and hollow-wall-mounting

Flat trim frame, adjustable to uneven surfaces

Cable inlet with integrated terminal fixture, at the top and bottom

Wire holder for cable entry

Removable device support

Available in up to 5 rows

TIP-in-closure, possibility to insert a closure with lock

Tool-free reversible opening left / right

Door and frame available in different design variants



Snap-on cable inlet with integrated terminal fixture allows easy insertion of incoming and outgoing cables and uses a quick, single-hand-operated push and-stay design, resulting in 80 % more cable inlet space. Both cable inlets can be screwed tight when installation is complete.



The generous wiring space considerably facilitates installation works for up to 200 % more wiring space and “slide in” wire holder.



All enclosures of the UK600 series are suitable for hollow-wall installation. Upgrading is incredibly quick and simple – just as easy as the hollow wall installation itself. You just need the UZ91P4 hollow wall set for UK600. No screws, yet nothing can slip. Fastening it is as easy as fastening cable ties.



Time-saving installation thanks to intelligent plug-in technology. The N/PE terminals which are laterally assembled provide a high level of flexibility. There are also versions available with screw-type terminals.



An innovative connection set for horizontal and vertical connection of several combi enclosures enables flexible extension and combination options.



The stable, removable device support can be snapped in and is installed quickly without tools. Here too, a variety of common installation techniques have been catered for – the device support can also be fixed in position using screws.



The triple socket makes the connection of different power supplies very easy. it offers 120° swiveling and can be snapped onto cable inlet.

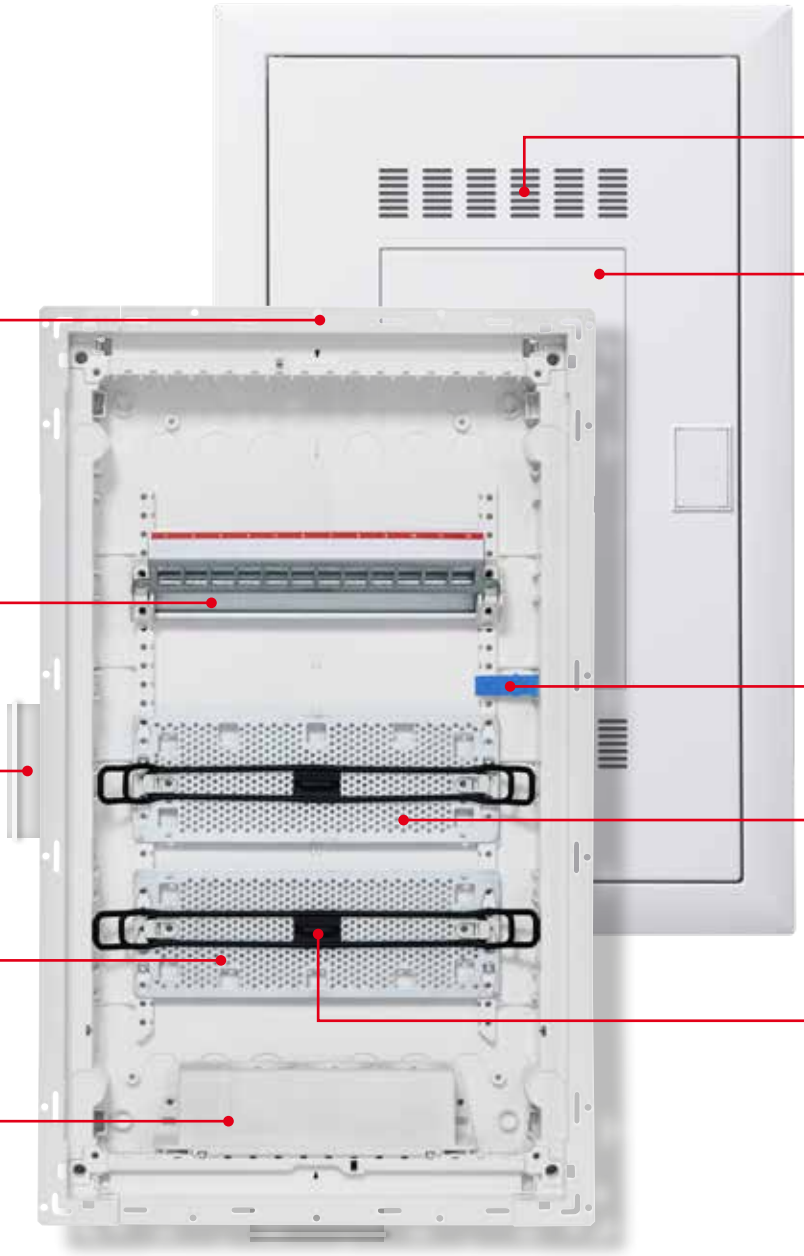


With the new media enclosure all conceivable devices such as routers or media modules find a safe space. The innovative combi enclosure combines the media and the consumer unit in one single cabinet, with a flexible partition separating the two parts from each other.

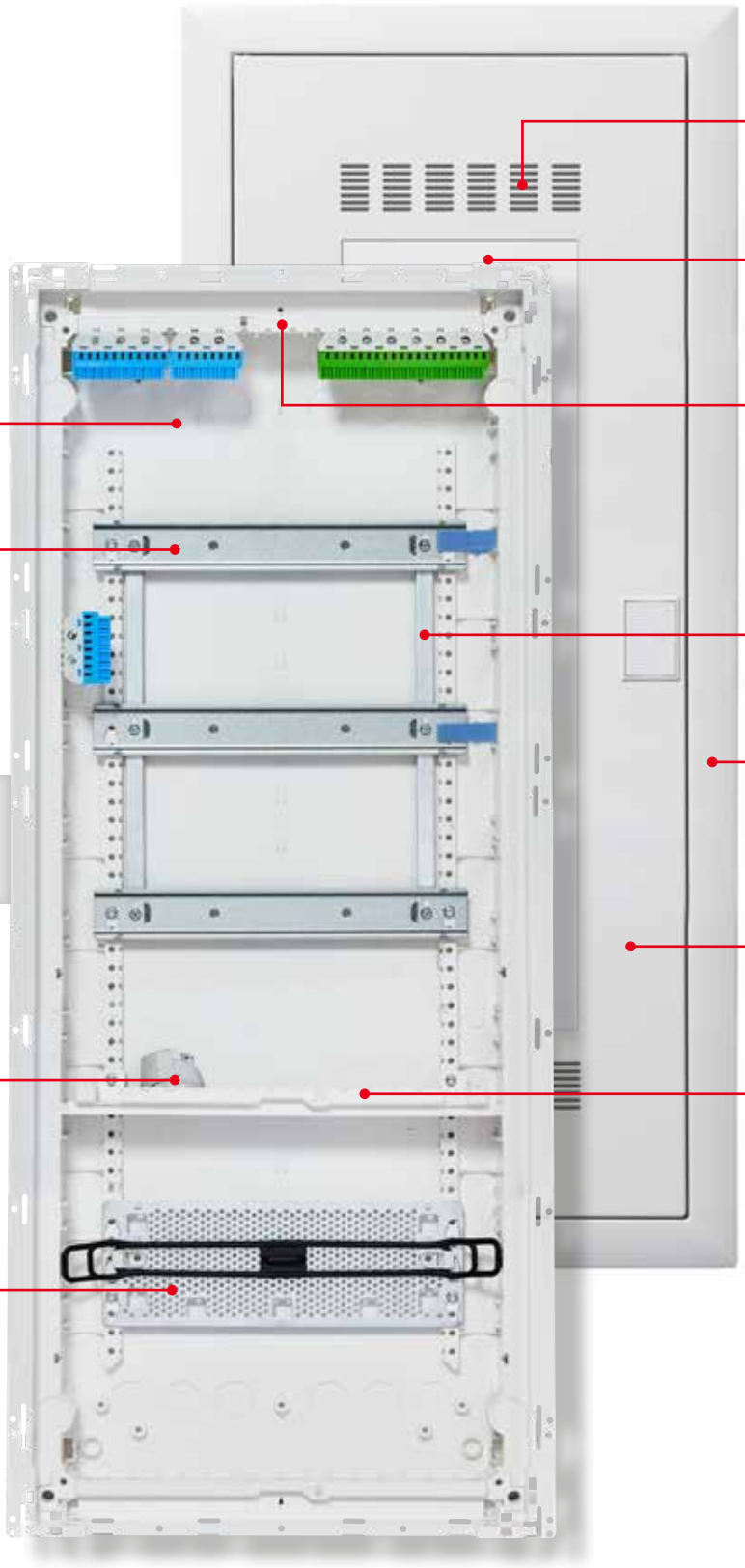


An attractive design feature – a perfect example of how easy it can be to combine functionality with design. The variety of high-quality doors and frame designs make the UK600 consumer units and media enclosures a design element in every living space. Media doors are available as Wifi-friendly and ventilated versions.

UK600
Media enclosures



UK600
Combi enclosures



Consumer units

UK600 flush- & hollow wall - with N/PE quick-terminals

01 N/PE quick-terminals
02 Wall box
03 Device carrier
04 Cover
05 Trim frame with sheet steel door

Flush-mounted consumer units – UK600, IP30 - , ;*
I_n up to 63 A
Consumer units DIN EN 60670-24, DIN 43871
For building installation according to DIN 18015
Mechanical impact strength: IK07
Available in 1 up to 5 row versions as flush-mounted consumer units
Can be upgraded for surface-mounting or partially recessed mounting
Upgradeable for hollow-wall-mounting using UZ91P4
Wall box:
- non-warp, break-proof, non-flammable, low-halogen plastic
- with cable strain relief comb
- with detachable cable inlets
- combinable
Wall grips
Reversible opening (tool-free)
Communication channel for horizontal and vertical connection
Device support with removable DIN rail
With N/PE quick-terminals
Wire holder for professional cable organization
Cover with 90° quick-action screws, lead-sealable
45 mm slots for 12 devices, expandable to 14
Labelling system
Trim frame and sheet steel door, adjustable for uneven surface
Colour: White, RAL 9016

*in connection with hollow-wall-mounting set UZ91P4



Consumer units

UK600 flush- & hollow wall - with N/PE quick-terminals



UK612N2



UK624N3



UK636N3



UK648N3



UK660N4

Article	H x W x D (mm)	SU	Type	Ord. no.
Flush-mounted consumer units, 1-row				
Niche dimensions for flush-mounting Wall cut out dimensions for hollow-wall-mounting **With N/PE quick-terminals:** ZK51B, ZK82B, ZK113G	355 x 367 x 95 328 x 340 x 88	12 (13)	UK612N2	2CPX031369R9999
Flush-mounted consumer units, 2-row				
Niche dimensions for flush-mounting Wall cut out dimensions for hollow-wall-mounting **With N/PE quick-terminals:** ZK51B, 2 x ZK82B, ZK144G	480 x 367 x 95 453 x 340 x 88	24 (28)	UK624N3	2CPX031370R9999
Flush-mounted consumer units, 3-row				
Niche dimensions for flush-mounting Wall cut out dimensions for hollow-wall-mounting **With N/PE quick-terminals:** ZK51B, 2 x ZK113B, ZK206G	605 x 367 x 95 578 x 340 x 88	36 (41)	UK636N3	2CPX031371R9999
Flush-mounted consumer units, 4-row				
Niche dimensions for flush-mounting Wall cut out dimensions for hollow-wall-mounting **With N/PE quick-terminals:** 2 x ZK82B, ZK144B, ZK237G	730 x 367 x 95 703 x 340 x 88	48 (56)	UK648N3	2CPX031372R9999
Flush-mounted consumer units, 5-row				
Niche dimensions for flush-mounting Wall cut out dimensions for hollow-wall-mounting **With N/PE quick-terminals:** ZK51B, 2 x ZK82B, ZK144B, ZK268G	855 x 367 x 95 828 x 340 x 88	60 (70)	UK660N4	2CPX031373R9999

> N/PE quick-terminals, see page 19
> Technical specifications and dimensions of UK600 see technical catalogue B page 2-9

Consumer units

UK600 flush- & hollow wall - with N/PE screw-terminals

01 Screw-terminals
02 Wall box
03 Device carrier
04 Cover
05 Trim frame with sheet steel door

Flush-mounted consumer units – UK600, IP30 , ;*
I_n up to 63 A
Consumer units DIN EN 60670-24, DIN 43871
For building installation according to DIN 18015
Mechanical impact strength: IK07
Available in 1 up to 5 row versions as flush-mounted consumer units
Can be upgraded for surface-mounting or partially recessed mounting
Upgradeable for hollow-wall-mounting using UZ91P4
Wall box:
- non-warp, break-proof, non-flammable, low-halogen plastic
- with cable strain relief comb
- with detachable cable inlets
- combinable
Wall grips
Reversible opening (tool-free)
Communication channel for horizontal and vertical connection
Device support with removable DIN rail
With N/PE screw-terminals
Wire holder for professional cable organization
Cover with 90° quick-action screws, lead-sealable
45 mm slots for 12 devices, expandable to 14
Labelling system
Trim frame and sheet steel door, adjustable for uneven surface
Colour: White, RAL 9016

*in connection with hollow-wall-mounting set UZ91P4



Consumer units

UK600 flush- & hollow wall - with N/PE screw-terminals



UK612E3



UK624E3



UK636E3



UK648E3



UK660E3

Article	H x W x D (mm)	SU	Type	Ord. no.
Flush-mounted consumer units, 1-row				
Niche dimensions for flush-mounting Wall cut out dimensions for hollow-wall-mounting **With N/PE screw-terminals:** ZK507, ZKS6B, ZKS16G	355 x 367 x 95 328 x 340 x 88	12 (13)	UK612E2	2CPX077840R9999
Flush-mounted consumer units, 2-row				
Niche dimensions for flush-mounting Wall cut out dimensions for hollow-wall-mounting **With N/PE screw-terminals:** ZK507, ZKS16B, ZKS21G	480 x 367 x 95 453 x 340 x 88	24 (28)	UK624E3	2CPX077841R9999
Flush-mounted consumer units, 3-row				
Niche dimensions for flush-mounting Wall cut out dimensions for hollow-wall-mounting **With N/PE screw-terminals:** ZK507, 2 x ZKS11B, ZKS26G	605 x 367 x 95 578 x 340 x 88	36 (41)	UK636E3	2CPX077842R9999
Flush-mounted consumer units, 4-row				
Niche dimensions for flush-mounting Wall cut out dimensions for hollow-wall-mounting **With N/PE screw-terminals:** ZK507, ZKS11B, ZKS16B, ZKS26G	730 x 367 x 95 703 x 340 x 88	48 (56)	UK648E3	2CPX077843R9999
Flush-mounted consumer units, 5-row				
Niche dimensions for flush-mounting Wall cut out dimensions for hollow-wall-mounting **With N/PE screw-terminals:** ZK507, 2 x ZKS16B, ZKS11G, ZKS21G	855 x 367 x 95 828 x 340 x 88	60 (70)	UK660E3	2CPX077844R9999

> N/PE quick-terminals, see page 19
> Technical specifications and dimensions of UK600 see technical catalogue B page 2-9

Consumer units

UK600 flush- & hollow wall - without terminals

— 01 Wall box
— 02 Device carrier
— 03 Cover
— 04 Trim frame with sheet steel door

Flush-mounted consumer units – UK600, IP30 , ;*
I_n up to 63 A
Consumer units DIN EN 60670-24, DIN 43871
For building installation according to DIN 18015
Mechanical impact strength: IK07
Available in 1 up to 5 row versions as flush-mounted consumer units
Can be upgraded for surface-mounting or partially recessed mounting
Upgradeable for hollow-wall-mounting using UZ91P4
Wall box:
- non-warp, break-proof, non-flammable, low-halogen plastic
- with cable strain relief comb
- with detachable cable inlets
- combinable
Wall grips
Reversible opening (tool-free)
Communication channel for horizontal and vertical connection
Device support with removable DIN rail
Without terminals
Wire holder for professional cable organization
Cover with 90° quick-action screws, lead-sealable
45 mm slots for 12 devices, expandable to 14
Labelling system
Trim frame and sheet steel door, adjustable for uneven surface
Colour: White, RAL 9016

*in connection with hollow-wall-mounting set UZ91P4



Consumer units

UK600 flush- & hollow wall - without terminals



UK612K



UK624K



UK636K



UK648K



UK660K

Article	H x W x D (mm)	SU	Type	Ord. no.
Flush-mounted consumer units, 1-row				
Niche dimensions for flush-mounting Wall cut out dimensions for hollow-wall-mounting	355 x 367 x 95 328 x 340 x 88	12 (13)	UK612K	2CPX031379R9999
Flush-mounted consumer units, 2-row				
Niche dimensions for flush-mounting Wall cut out dimensions for hollow-wall-mounting	480 x 367 x 95 453 x 340 x 88	24 (28)	UK624K	2CPX031380R9999
Flush-mounted consumer units, 3-row				
Niche dimensions for flush-mounting Wall cut out dimensions for hollow-wall-mounting	605 x 367 x 95 578 x 340 x 88	36 (41)	UK636K	2CPX031381R9999
Flush-mounted consumer units, 4-row				
Niche dimensions for flush-mounting Wall cut out dimensions for hollow-wall-mounting	730 x 367 x 95 703 x 340 x 88	48 (56)	UK648K	2CPX031382R9999
Flush-mounted consumer units, 5-row				
Niche dimensions for flush-mounting Wall cut out dimensions for hollow-wall-mounting	855 x 367 x 95 828 x 340 x 88	60 (70)	UK660K	2CPX031383R9999

> Technical specifications and dimensions of UK600 see technical catalogue B page 2-9

Consumer units

UK600 basic version without trim frame and door

01 N/PE quick-terminals
02 Wall box
03 Device carrier
04 Cover

Flush-mounted consumer units – UK600, IP30 - , ;*
I_n up to 63 A
Consumer units DIN EN 60670-24, DIN 43871
For building installation according to DIN 18015
Mechanical impact strength: IK07
Available in 1 up to 5 row versions as flush-mounted consumer units
Can be upgraded for surface-mounting or partially recessed mounting
Upgradeable for hollow-wall-mounting using UZ91P4
Wall box:
- non-warp, break-proof, non-flammable, low-halogen plastic
- with cable strain relief comb
- with detachable cable inlets
- combinable
Wall grips
Reversible opening (tool-free)
Communication channel for horizontal and vertical connection
Device support with removable DIN rail
With N/PE quick-terminals
Wire holder for professional cable organization
Cover with 90° quick-action screws, lead-sealable
45 mm slots for 12 devices, expandable to 14
Labelling system
Trim frame and sheet steel door, adjustable for uneven surface
Colour: White, RAL 9016

*in connection with hollow-wall-mounting set UZ91P4



Consumer units

UK600 basic version without trim frame and door



UK612NB



UK624NB



UK636NB



UK648NB



UK660NB

Article	H x W x D (mm)	SU	Type	Ord. no.
Flush-mounted consumer units, 1-row				
Niche dimensions for flush-mounting Wall cut out dimensions for hollow-wall-mounting **With N/PE quick-terminals:** ZK51B, ZK82B, ZK113G	355 x 367 x 95 328 x 340 x 88	12 (13)	UK612NB	2CPX031374R9999
Flush-mounted consumer units, 2-row				
Niche dimensions for flush-mounting Wall cut out dimensions for hollow-wall-mounting **With N/PE quick-terminals:** ZK51B, 2 x ZK82B, ZK144G	480 x 367 x 95 453 x 340 x 88	24 (28)	UK624NB	2CPX031375R9999
Flush-mounted consumer units, 3-row				
Niche dimensions for flush-mounting Wall cut out dimensions for hollow-wall-mounting **With N/PE quick-terminals:** ZK51B, 2 x ZK113B, ZK206G	605 x 367 x 95 578 x 340 x 88	36 (41)	UK636NB	2CPX031376R9999
Flush-mounted consumer units, 4-row				
Niche dimensions for flush-mounting Wall cut out dimensions for hollow-wall-mounting **With N/PE quick-terminals:** 2 x ZK82B, ZK144B, ZK237G	730 x 367 x 95 703 x 340 x 88	48 (56)	UK648NB	2CPX031377R9999
Flush-mounted consumer units, 5-row				
Niche dimensions for flush-mounting Wall cut out dimensions for hollow-wall-mounting **With N/PE quick-terminals:** ZK51B, 2 x ZK82B, ZK144B, ZK268G	855 x 367 x 95 828 x 340 x 88	60 (70)	UK660NB	2CPX031378R9999

Consumer units

UK600 basic version without trim frame and door

01 Screw-terminals
02 Wall box
03 Device carrier
04 Cover
05 Trim frame with sheet steel door

Flush-mounted consumer units – UK600, IP30 , ;*
I_n up to 63 A
Consumer units DIN EN 60670-24, DIN 43871
For building installation according to DIN 18015
Mechanical impact strength: IK07
Available in 1 up to 5 row versions as flush-mounted consumer units
Can be upgraded for surface-mounting or partially recessed mounting
Upgradeable for hollow-wall-mounting using UZ91P4
Wall box:
- non-warp, break-proof, non-flammable, low-halogen plastic
- with cable strain relief comb
- with detachable cable inlets
- combinable
Wall grips
Reversible opening (tool-free)
Communication channel for horizontal and vertical connection
Device support with removable DIN rail
With N/PE screw-terminals
Wire holder for professional cable entry
Cover with 90° quick-action screws, lead-sealable
45 mm slots for 12 devices, expandable to 14
Labelling system
Trim frame and sheet steel door, adjustable for uneven surface
Colour: White, RAL 9016

*in connection with hollow-wall-mounting set UZ91P4



Consumer units

UK600 basic version without trim frame and door



UK612EB



UK624EB



UK636EB



UK648EB



UK660EB

Article	H x W x D (mm)	SU	Type	Ord. no.
Flush-mounted consumer units, 1-row				
Niche dimensions for flush-mounting Wall cut out dimensions for hollow-wall-mounting **With N/PE screw-terminals:** ZK507, ZKS6B, ZKS16G	355 x 367 x 95 328 x 340 x 88	12 (13)	UK612EB	2CPX077845R9999
Flush-mounted consumer units, 2-row				
Niche dimensions for flush-mounting Wall cut out dimensions for hollow-wall-mounting **With N/PE screw-terminals:** ZK507, ZKS16B, ZKS21G	480 x 367 x 95 453 x 340 x 88	24 (28)	UK624EB	2CPX077846R9999
Flush-mounted consumer units, 3-row				
Niche dimensions for flush-mounting Wall cut out dimensions for hollow-wall-mounting **With N/PE screw-terminals:** ZK507, 2 x ZKS11B, ZKS26G	605 x 367 x 95 578 x 340 x 88	36 (41)	UK636EB	2CPX077847R9999
Flush-mounted consumer units, 4-row				
Niche dimensions for flush-mounting Wall cut out dimensions for hollow-wall-mounting **With N/PE screw-terminals:** ZK507, ZKS11B, ZKS16B, ZKS26G	730 x 367 x 95 703 x 340 x 88	48 (56)	UK648EB	2CPX077848R9999
Flush-mounted consumer units, 5-row				
Niche dimensions for flush-mounting Wall cut out dimensions for hollow-wall-mounting **With N/PE screw-terminals:** ZK507, 2 x ZKS16B, ZKS11G, ZKS21G	855 x 367 x 95 828 x 340 x 88	60 (70)	UK660EB	2CPX077849R9999

* In connection with a standard door, with TIP-in closure there will be one space unit less.

Consumer units

N/PE quick-terminals

Configure based on your needs

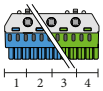
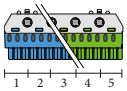
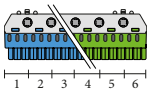
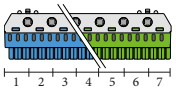
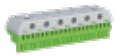
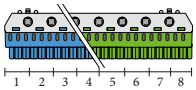
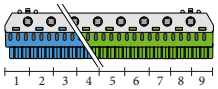
The modularity and the extensive range of products allow customizing the products to the needs based on real-world use. Various quick-terminals can be combined on one quick carrier as necessary. If a larger N or PE terminal has to be used, simply connect two quick-terminals using the ZK10P10 connecting bridge.





Product benefits

- Flexible terminal system for several N potentials: Screw connections: 2.5 to 25 mm² for rigid conductors; for flexible conductors up to 25 mm² (wire end sleeves required)
- Spring connection: 1.5 to 4 mm² for rigid conductors; for flexible conductors up to 25 mm² (wire end sleeves required)
- Optimal when using several residual current circuit breakers
- Ease of expansion using connecting bridges
- Precise assignment of the terminals by clear colour coding: N = blue, PE = yellow-green
- Easy labelling of the terminals using pre-printed, self-adhesive number strips
- Wide range of applications: may be used in the UK600 and MISTRAL65 consumer unit series, in all compact distribution boards, and with all meter cabinets, wall-mounting and floor-standing cabinets

N/PE terminals with units	N quick-terminals	Type	Screw connection system	Spring connection system	PE quick-terminals	Type	Screw connection system	Spring connection system
		ZK50B 41Z70 ZK50BT	0 x 25 mm²	5 x 1,5 - 4 mm²	-		-	-
		ZK51B 41Z71	1 x 25 mm²	5 x 1,5 - 4 mm²		ZK51G 41Z77	1 x 25 mm²	5 x 1,5 - 4 mm²
		ZK82B 41Z72	2 x 25 mm²	8 x 1,5 - 4 mm²		ZK82G 41Z78	2 x 25 mm²	8 x 1,5 - 4 mm²
		ZK113B 41Z73	3 x 25 mm²	11 x 1,5 - 4 mm²		ZK113G 41Z79	3 x 25 mm²	11 x 1,5 - 4 mm²
		ZK144B 41Z74	4 x 25 mm²	14 x 1,5 - 4 mm²		ZK144G 41Z80	4 x 25 mm²	14 x 1,5 - 4 mm²
		ZK175B 41Z75	5 x 25 mm²	17 x 1,5 - 4 mm²		ZK175G 41Z81	5 x 25 mm²	17 x 1,5 - 4 mm²
		ZK206B 41Z76	6 x 25 mm²	20 x 1,5 - 4 mm²		ZK206G 41Z82	6 x 25 mm²	20 x 1,5 - 4 mm²
		ZK237B 41Z150	7 x 25 mm²	23 x 1,5 - 4 mm²		ZK237G 41Z152	7 x 25 mm²	23 x 1,5 - 4 mm²
		ZK268B 41Z151	8 x 25 mm²	26 x 1,5 - 4 mm²		ZK268G 41Z153	8 x 25 mm²	26 x 1,5 - 4 mm²

Consumer units

N/PE quick-terminals



ZK51B



ZK50BT



ZK51G



ZK10P10



UZB1

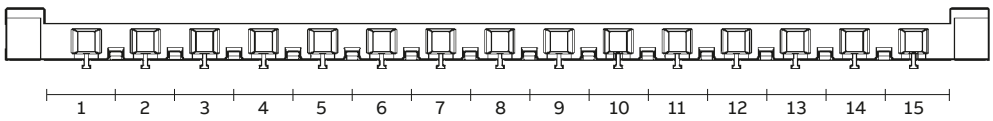


ZK600



ZK603

Article	Number terminals 1.5 x 4 mm²	Number terminals 2.5 x 25 mm²	maximum rated current [A]	Packaging pack/bulk	Type	Ord. no.
N quick-plug terminals	5 x 1.5 - 4	0 x 25	63	1	ZK50B	2CPX062750R9999
				5/280	41Z70	1SPE007715F9701
For terminal carriers	5 x 1.5 - 4	1 x 25	63	1	ZK51B	2CPX062751R9999
				5/180	41Z71	1SPE007715F9702
	8 x 1.5 - 4	2 x 25	63	1	ZK82B	2CPX062752R9999
				5/150	41Z72	1SPE007715F9703
	11 x 1.5 - 4	3 x 25	63	1	ZK113B	2CPX062753R9999
				5/100	41Z73	1SPE007715F9704
	14 x 1.5 - 4	4 x 25	63	1	ZK144B	2CPX062754R9999
				5/90	41Z74	1SPE007715F9705
	14 x 1.5 - 4	5 x 25	63	1	ZK175B	2CPX062755R9999
				5/70	41Z75	1SPE007715F9706
	20 x 1.5 - 4	6 x 25	63	1	ZK206B	2CPX062756R9999
				5/60	41Z76	1SPE007715F9707
	23 x 1.5 - 4	7 x 25	63	1	ZK237B	2CPX063163R9999
				5	41Z150	1SPE007715F9708
	26 x 1.5 - 4	8 x 25	63	1	ZK268B	2CPX063164R9999
				5	41Z151	1SPE007715F9709
N quick-plug terminals With adapter ZK15 for lateral assembling in the UK6... or for fastening to the DIN rail	5 x 1.5 - 4	0 x 25	63	1	ZK50BT	2CPX062745R9999
PE quick-plug terminals	5 x 1.5 - 4	1 x 25	63	1	ZK51G	2CPX062757R9999
				5/180	41Z77	1SPE007715F9712
For terminal carriers	8 x 1.5 - 4	2 x 25	63	1	ZK82G	2CPX062758R9999
				5/150	41Z78	1SPE007715F9713
	11 x 1.5 - 4	3 x 25	63	1	ZK113G	2CPX062759R9999
				5/100	41Z79	1SPE007715F9714
	14 x 1.5 - 4	4 x 25	63	1	ZK144G	2CPX062760R9999
				5/90	41Z80	1SPE007715F9715
	17 x 1.5 - 4	5 x 25	63	1	ZK175G	2CPX062761R9999
				5/70	41Z81	1SPE007715F9716
	20 x 1.5 - 4	6 x 25	63	1 1	ZK206G	2CPX062762R9999
				5/60	41Z82	1SPE007715F9717
	23 x 1.5 - 4	7 x 25	63	1	ZK237G	2CPX063165R9999
				5	41Z152	1SPE007715F9718
	26 x 1.5 - 4	8 x 25	63	1	ZK268G	2CPX063166R9999
				5	41Z153	1SPE007715F9719
Connecting bridges For terminal carriers				10	ZK10P10	2CPX062763R9999
Quick-carriers For UK6... consumer units Usable width for terminals 247 mm 15 units				1	ZK600	2CPX064980R9999
Cable inlet for wall box With integrated terminal carrier Top or bottom, 1 to 5 rows Usable width for terminals 277 mm, 17 units				1	UZB1	2CPX031407R9999
N/PE quick-plug terminal set for UK... With Quick-plug terminals: ZK144B: N 4 x 25 + 14 x 4 mm² ZK82B: N 2 x 25 + 8 x 4 mm² ZK206G: PE 6 x 25 + 20 x 4 mm²			**Type**	1	ZK603	2CPX063177R9999

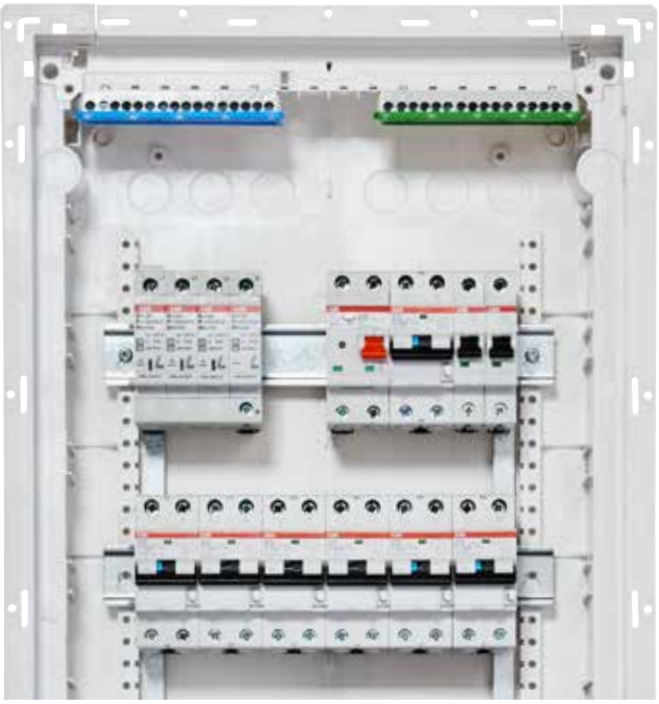


Consumer units

N/PE screw terminals

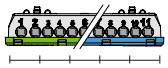
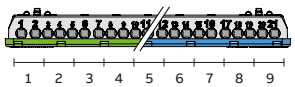
Configure based on your needs

The modularity and the extensive range of products allow customizing the new products to the needs based on real-world use. Various terminals can be combined on one common carrier as necessary.



Product benefits

- Flexible terminal system for several N potentials: Screw connections: 1.5 to 16 mm² for rigid conductors; for flexible conductors up to 16 mm² (wire end sleeves required)
- Optimal when using several residual current circuit breakers
- Precise assignment of the terminals by clear colour coding: N = blue, PE = yellow-green
- Easy labelling of the terminals using pre-printed, self-adhesive number strips
- Wide range of applications: may be used in the UK600 and MISTRAL65 consumer unit series, in all compact distribution boards, and with all meter cabinets, wall-mounting and floor-standing cabinets

N/PE terminals with units	N screw-terminals	Type	Screw connection system		PE screw-terminals	Type	Screw connection system	
 1 2 3		ZKS6B 41Z57	3 x 6 mm²	3 x 16 mm²		ZKS6G 41Z62	3 x 6 mm²	3 x 16 mm²
 1 2 3 4 5		ZKS11B 41Z58	5 x 6 mm²	5 x 16 mm²		ZKS11G 41Z63	5 x 6 mm²	5 x 16 mm²
 1 2 3 4 5 6 7		ZKS16B 41Z59	9 x 6 mm²	7 x 16 mm²		ZKS11G 41Z63	9 x 6 mm²	7 x 16 mm²
 1 2 3 4 5 6 7 8 9		ZKS21B 41Z60	12 x 6 mm²	9 x 16 mm²		ZKS21G 41Z65	12 x 6 mm²	9 x 16 mm²
 1 2 3 4 5 6 7 8 9 10 11		ZKS26B 41Z61	15 x 6 mm²	11 x 16 mm²		ZKS26G 41Z66	15 x 6 mm²	11 x 16 mm²

Consumer units

N/PE screw terminals



ZKS11B

Article	Number terminals 1.5 x 6 mm²	Number terminals 1.5 x 16 mm²	maximum rated current [A]	Packaging pack/bulk	Type	Ord. no.
N screw-terminals For terminal carriers	3 x 6	3 x 16	100	1 5/270	ZKS6B 41Z57	2CPX063167R9999 1SPE007715F0731
	6 x 6	5 x 16	100	1 5/150	ZKS11B 41Z58	2CPX063168R9999 1SPE007715F0732
	9 x 6	7 x 16	100	1 5/120	ZKS16B 41Z59	2CPX063169R9999 1SPE007715F0733
	12 x 6	9 x 16	100	1 5/90	ZKS21B 41Z60	2CPX063170R9999 1SPE007715F0734
	15 x 6	11 x 16	100	1 5/90	ZKS26B 41Z61	2CPX063171R9999 1SPE007715F0735



ZKS11G

PE screw-terminals For terminal carriers	3 x 6	3 x 16	100	1 5/270	ZKS6G 41Z62	2CPX063172R9999 1SPE007715F0741
	6 x 6	5 x 16	100	1 5/150	ZKS11G 41Z63	2CPX063173R9999 1SPE007715F0742
	9 x 6	7 x 16	100	1 5/120	ZKS16G 41Z64	2CPX063174R9999 1SPE007715F0743
	12 x 6	9 x 16	100	1 5/90	ZKS21G 41Z65	2CPX063175R9999 1SPE007715F0744
	15 x 6	11 x 16	100	1 5/90	ZKS26G 41Z66	2CPX063176R9999 1SPE007715F0745



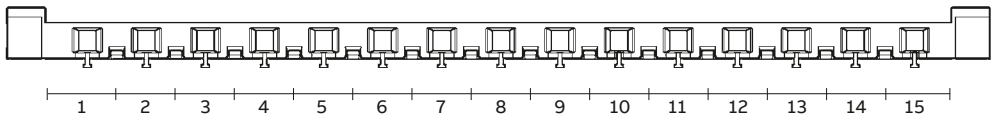
ZK507

RCD terminal for lateral and DIN rail installation 3 x 16 mm² + 2 x 10 mm² Cu pluggable				1	ZK507	2CPX030892R9999



ZK600

Quick-carriers For UK6... consumer units Usable width for terminals 247 mm 15 units				1	ZK600	2CPX063178R9999



Consumer units

UK600 consumer unit

Project options



UZB636



UZS636B



UZS636N



UZS636K

Article	Pieces	Type	Ord. no.
Wall box with wall grips			
To be used with UK61...	1	UZB612	2CPX031113R9999
To be used with UK62...	1	UZB624	2CPX031114R9999
To be used with UK63...	1	UZB636	2CPX031115R9999
To be used with UK64...	1	UZB648	2CPX031116R9999
To be used with UK66..	1	UZB660	2CPX031117R9999
Cover, device support and N/PE quick-plug terminals			
To be used with UK61...	1	UZS612B	2CPX031139R9999
To be used with UK62...	1	UZS624B	2CPX031140R9999
To be used with UK63...	1	UZS636B	2CPX031141R9999
To be used with UK64...	1	UZS648B	2CPX031142R9999
To be used with UK66..	1	UZS660B	2CPX031143R9999
Trim frame with door, cover, device support and N/PE quick-plug terminals			
To be used with UK61...	1	UZS612N	2CPX031131R9999
To be used with UK62...	1	UZS624N	2CPX031132R9999
To be used with UK63...	1	UZS636N	2CPX031133R9999
To be used with UK64...	1	UZS648N	2CPX031134R9999
To be used with UK66..	1	UZS660N	2CPX031135R9999
Trim frame with door, cover, device support and DIN rail for terminal blocks			
To be used with UK63...	1	UZS636K	2CPX031136R9999
To be used with UK64...	1	UZS648K	2CPX031137R9999
To be used with UK66..	1	UZS660K	2CPX031138R9999

Consumer units

UK600 consumer unit

Spare parts and accessories



AP636



UZB1



UZB2



UZB3



UZT1



UZT2



UZT3



UZT4

Article	Pieces	Type	Ord. no.
Surface mounting For wall-mounting or partially recessed installation with predetermined breaking points, only suitable for standard door			
To be used with UK61...	1	AP612	2CPX031402R9999
To be used with UK62...	1	AP624	2CPX031403R9999
To be used with UK63...	1	AP636	2CPX031404R9999
To be used with UK64...	1	AP648	2CPX031405R9999
To be used with UK66..	1	AP660	2CPX031406R9999
Cable inlet With integrated terminal carrier Top or bottom, 1 to 5 rows Usable width for terminals 277 mm, 17 units	1	UZB1	2CPX031407R9999
Connecting channel for horizontal and vertical apposition and cross-wiring of the consumer units	1	UZB2	2CPX031408R9999
Horizontal partition with integrated terminal carrier, Knock-out for two sockets, type ZE224 and five knock-outs for communications racks*	1	UZB3	2CPX031409R9999
Hinge set for UK600	2	UZT1	2CPX031410R9999
TIP-in-closure Colour: White, RAL 9016	1	UZT2	2CPX031411R9999
Closure with lock, standard With 2 keys	1	UZT3	2CPX031412R9999
Closure with lock, Ronis With 2 keys	1	UZT4	2CPX031413R9999

Consumer units

UK600 consumer unit

Design solutions



UZT5

Article	Pieces	Type	Ord. no.
Labelling system Self-adhesive With labelling panels and numbers 1-70 with legend	1	UZT5	2CPX031429R9999



ZA3P5

Blind cover 12 modules white RAL9016	5	ZA3P5	2CPX062385R9999



UZ4P2

Wall grips To fix the wall box in two mounting depths	4	UZ4P2	2CPX062447R9999



UZG636

DIN rail with device insert			
To be used with UK61...	1	UZG612	2CPX031118R9999
To be used with UK62...	1	UZG624	2CPX031119R9999
To be used with UK63...	1	UZG636	2CPX031120R9999
To be used with UK64...	1	UZG648	2CPX031121R9999
To be used with UK66..	1	UZG660	2CPX031122R9999



UZA636

Cover with 90° quick-action screws			
To be used with UK61...	1	UZA612	2CPX031123R9999
To be used with UK62...	1	UZA624	2CPX031124R9999
To be used with UK63...	1	UZA636	2CPX031125R9999
To be used with UK64...	1	UZA648	2CPX031126R9999
To be used with UK66..	1	UZA660	2CPX031127R9999



UZM620

Mounting plate, sheet steel, galvanised			
To be used with UK61..., H x W = 212 x 242 mm	1	UZM610	2CPX031414R9999
To be used with UK62..., H x W = 337 x 242 mm	1	UZM620	2CPX031415R9999
To be used with UK63..., H x W = 462 x 242 mm	1	UZM630	2CPX031416R9999
To be used with UK64..., H x W = 587 x 242 mm	1	UZM640	2CPX031417R9999
To be used with UK65..., H x W = 712 x 242 mm	1	UZM650	2CPX031418R9999



UZ91P4

Hollow-wall-mounting set To modify the flush-mounting consumer unit into a hollow-wall consumer unit UK600 (type label and 20 cable ties included) wall thickness min. 8 mm, max. 35 mm	4	UZ91P4	2CPX031434R9999



ZA89P20

Screws 20 pcs. for fixing DIN rails and mounting plates	1	ZA89P20	2CPX062376R9999

Consumer units

UK600 consumer unit

Design solutions



BL610



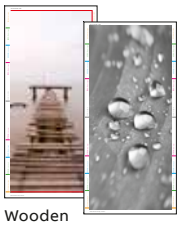
BL611

Article	To be used with...	Pieces	Type	Ord. no.
Trim frame with door (standard) Colour: White, RAL 9016 sheet steel, powder coated	UK61..	1	BL610	2CPX031081R9999
	UK62..	1	BL620	2CPX031082R9999
	UK63..	1	BL630	2CPX031083R9999
	UK64..	1	BL640	2CPX031084R9999
	UK66..	1	BL650	2CPX031085R9999
Trim frame with door Colour: Anthracite, RAL 7016 sheet steel, powder coated	UK61..	1	BL611	2CPX031086R9999
	UK62..	1	BL621	2CPX031087R9999
	UK63..	1	BL631	2CPX031088R9999
	UK64..	1	BL641	2CPX031089R9999
	UK66..	1	BL651	2CPX031090R9999



Black-board foil

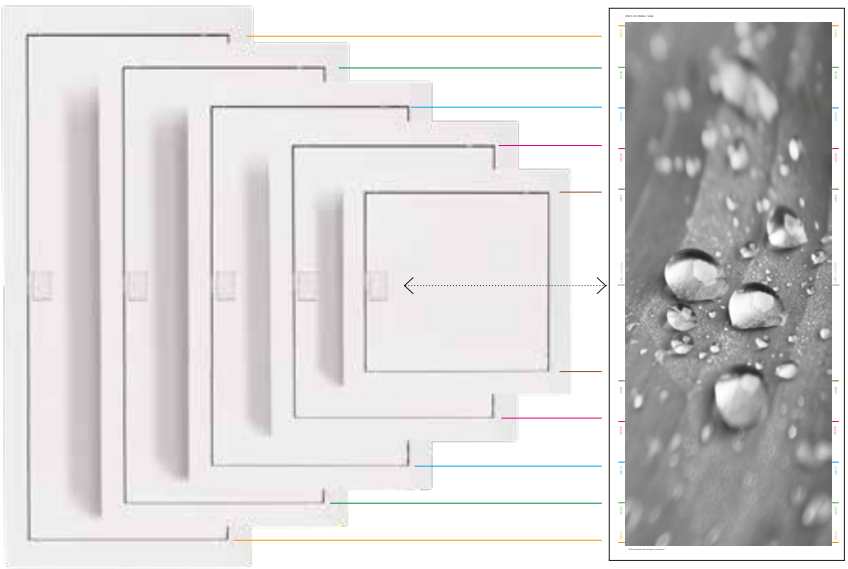
Stones



Wooden walkway

Water drops

Article	To be used with...	Pieces	Type	Ord. no.	EUR
Blackboard foil For labelling of UK600 sheet steel doors	UK61.. UK62.. UK63.. UK64.. UK66..	1	UZ640D		
		10	UZ640DP10	2CPX031790R9999	
Stones Design foil for UK600 sheet steel doors	UK61.. UK62.. UK63.. UK64.. UK66..	1	UZ641D	2CPX031787R9999	
		10	UZ641DP10	2CPX031791R9999	
Wooden walkway Design foil for UK600 sheet steel doors	UK61.. UK62.. UK63.. UK64.. UK66..	1	UZ642D	2CPX031788R9999	
		10	UZ642DP10	2CPX031792R9999	
Water drops Design foil for UK600 sheet steel doors	UK61.. UK62.. UK63.. UK64.. UK66..	1	UZ643D	2CPX031789R9999	
		10	UZ643DP10	2CPX031793R9999	



Consumer units

UK600 consumer unit

Design solutions



BL630D



UZD630



UZD631



UZD632



UZD633



UZD634



UZD635

Article	To be used with...	Pieces	Type	Ord. no.
Interchangeable design frame Aluminium brushed, stainless steel finish without insert	UK62..	1	BL620D	2CPX031794R9999
	UK63..	1	BL630D	2CPX031795R9999
	UK64..	1	BL640D	2CPX031796R9999
	UK66..	1	BL650D	2CPX031797R9999
Inserts for the interchangeable design frame				
Image insert For your own images as you wish	UK62..	1	UZD620	2CPX031762R9999
	UK63..	1	UZD630	2CPX031768R9999
	UK64..	1	UZD640	2CPX031774R9999
	UK66..	1	UZD650	2CPX031780R9999
Pinboard insert Grey felt with pins	UK62..	1	UZD621	2CPX031763R9999
	UK63..	1	UZD631	2CPX031769R9999
	UK64..	1	UZD641	2CPX031775R9999
	UK66..	1	UZD651	2CPX031781R9999
Mirror insert	UK62..	1	UZD622	2CPX031764R9999
	UK63..	1	UZD632	2CPX031770R9999
	UK64..	1	UZD642	2CPX031776R9999
	UK66..	1	UZD652	2CPX031782R9999
Stainless steel finish insert	UK62..	1	UZD623	2CPX031765R9999
	UK63..	1	UZD633	2CPX031771R9999
	UK64..	1	UZD643	2CPX031777R9999
	UK66..	1	UZD653	2CPX031783R9999
LED panel insert With backlight foil*	UK62..	1	UZD624	2CPX031766R9999
	UK63..	1	UZD634	2CPX031772R9999
	UK64..	1	UZD644	2CPX031778R9999
	UK66..	1	UZD654	2CPX031784R9999
Wooden finish insert With 5 magnetic pins	UK62..	1	UZD625	2CPX031767R9999
	UK63..	1	UZD635	2CPX031773R9999
	UK64..	1	UZD645	2CPX031779R9999
	UK66..	1	UZD655	2CPX031785R9999

*12 V DC REG voltage supply must be ordered separately.

Consumer units

Media enclosure UK600

Flush-mounted consumer units – UK600, IP30 - , ; *
Consumer units UK600 as multimedia version,
dimensions according to the standard enclosures as per DIN 43871
Mechanical impact strength: IK07
Available in 2 up to 5 row versions as flush-mounted consumer units
Can be upgraded for surface-mounting or partially recessed mounting
Upgradeable for hollow-wall-mounting using UZ91P4
Wall box:
- non-warp, break-proof, non-flammable, low-halogen plastic
- with cable strain relief comb
- with detachable cable inlets
- combinable
Reversible opening (tool-free)
Communication channel for horizontal and vertical connection
With removable DIN rail in the top row
Patch panel in isolated design for up to 12 keystone modules
Modular perforated sheet steel mounting plate for devices
Simple and tool-free installation of the devices using the "device strap"
120° swiveling triple socket for the power supply of built-in devices
Wire holder for professional cable organization
With trim frame and sheet steel doors as sheet steel door with white plastic insert, for improved Wifi signals or as basic option without trim frame and door

*in connection with hollow-wall-mounting set UZ91P4



Consumer units

Media enclosure UK600



UK636MV



UK636MW



UK630MV



UK630MVB



UK630MB

Article	Dimensions	H x D x D (mm)	Type	Ord. no.
Flush-mounted media enclosure with trim frame and door with ventilation holes				
Wall box with modular perforated sheet steel mounting plates and removable DIN rail Wire holder for cable entry Patch panel for up to 12 keystone modules Snap-on triple socket swiveling 120° with EURO insert Device strap for tool-free installation. Sheet steel door ventilated	3 rows Niche wall cut out dimensions	605 x 367 x 95 578 x 340 x 88	UK636MV	2CPX031384R9999
	4 rows Niche wall cut out dimensions	730 x 367 x 95 703 x 340 x 88	UK648MV	2CPX031385R9999
	5 rows Niche wall cut out dimensions	855 x 367 x 95 828 x 340 x 88	UK660MV	2CPX031386R9999
Flush-mounted media enclosure with trim frame and ventilated Wifi door				
Wall box with modular perforated sheet steel mounting plates and removable DIN rail Wire holder for cable entry Patch panel for up to 12 keystone modules Snap-on triple socket swiveling 120° with EURO insert Device strap for tool-free installation. Sheet steel door with white plastic insert 30% transparent, for improved Wifi signals	3 rows Niche wall cut out dimensions	605 x 367 x 95 578 x 340 x 88	UK636MW	2CPX031387R9999
	4 rows Niche wall cut out dimensions	730 x 367 x 95 703 x 340 x 88	UK648MW	2CPX031388R9999
	5 rows Niche wall cut out dimensions	855 x 367 x 95 828 x 340 x 88	UK660MW	2CPX031389R9999
Flush-mounted media enclosure with trim frame and door with ventilation holes				
Wall box with modular perforated sheet steel mounting plates and removable DIN rail Wire holder for cable entry Dual socket with mounting bracket Device strap for tool-free installation Sheet steel door ventilated	2 rows Niche wall cut out dimensions	480 x 367 x 95 453 x 340 x 88	UK620MV	2CPX031390R9999
	3 rows Niche wall cut out dimensions	605 x 367 x 95 578 x 340 x 88	UK630MV	2CPX031391R9999
	4 rows Niche wall cut out dimensions	730 x 367 x 95 703 x 340 x 88	UK640MV	2CPX031392R9999
	5 rows Niche wall cut out dimensions	855 x 367 x 95 828 x 340 x 88	UK650MV	2CPX031393R9999
Flush-mounted media enclosure with trim frame and door with ventilation holes, without socket				
Wall box with modular perforated sheet steel mounting plates and removable DIN rail Wire holder for cable entry Without socket Device strap for tool-free installation Sheet steel door ventilated	2 rows Niche wall cut out dimensions	480 x 367 x 95 453 x 340 x 88	UK620MVB	2CPX031454R9999
	3 rows Niche wall cut out dimensions	605 x 367 x 95 578 x 340 x 88	UK630MVB	2CPX031455R9999
	4 rows Niche wall cut out dimensions	730 x 367 x 95 703 x 340 x 88	UK640MVB	2CPX031456R9999
	5 rows Niche wall cut out dimensions	855 x 367 x 95 828 x 340 x 88	UK650MVB	2CPX031457R9999
Flush-mounted media enclosure as basis without trim frame and door				
Wall box with modular perforated sheet steel mounting plates and removable DIN rail Wire holder for cable entry Mounting bracket Device strap for tool-free installation	2 rows Niche wall cut out dimensions	480 x 367 x 95 453 x 340 x 88	UK624MB	2CPX031394R9999
	3 rows Niche wall cut out dimensions	605 x 367 x 95 578 x 340 x 88	UK636MB	2CPX031395R9999
	4 rows Niche wall cut out dimensions	730 x 367 x 95 703 x 340 x 88	UK648MB	2CPX031396R9999
	5 rows Niche wall cut out dimensions	855 x 367 x 95 828 x 340 x 88	UK660MB	2CPX031397R9999

Consumer units

Combi enclosure UK600

Flush-mounted consumer units – UK600, IP30 , ;*
I_n up to 63 A
Combi enclosure as consumer unit and media enclosure
dimensions according to the standard enclosures as per DIN 43871
For building installation according to DIN 18015
Mechanical impact strength: IK07
Available as 2 or 3 row versions as flush-mounted consumer units
Can be upgraded for surface-mounting or partially recessed mounting
Upgradeable for hollow-wall-mounting using UZ91P4
Wall box:
- non-warp, break-proof, non-flammable, low-halogen plastic
- with cable strain relief comb
- with detachable cable inlets
- combinable
Reversible opening (tool-free)
Communication channel for horizontal and vertical connection
With N/PE quick-plug terminal
Cover with 90° quick-action screws, lead-sealable
45 mm slots for 12 devices, expandable to 14
Labelling system
Standardized separation of the voltage levels using a partition with knock-out for socket and media modules
Modular perforated sheet steel mounting plate for devices
Simple and tool-free installation of the devices using the "device strap"
“Click in” socket, swiveling 90° for the power supply of built-in devices
Wire holder for professional cable organization
With trim frame and sheet steel door or sheet steel door with white plastic insert,
for improved Wifi signal, with surface compensation

*in connection with hollow-wall-mounting set UZ91P4



Consumer units

Combi enclosure UK600



UK662CV



UK662CW



UK662CVC



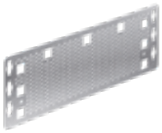
UK662CWC

Article	Dimensions	H x D x D (mm)	Type	Ord. no.
Flush-mounted combi enclosure with trim frame and ventilated door				
Wall box with modular perforated sheet steel mounting plates and removable device support Wire holder for cable entry Partition for electrical isolation, snap-on socket, swiveling 90° with EURO insert “Device strap” for tool-free installation Sheet steel door ventilated	2 rows*) Niche wall cut out dimensions	855 x 367 x 95 828 x 340 x 88	UK662CV	2CPX031398R9999
	3 rows Niche wall cut out dimensions	855 x 367 x 95 828 x 340 x 88	UK663CV	2CPX031399R9999
Flush-mounted combination enclosure with trim frame and ventilated Wifi door				
Wall box with modular perforated sheet steel mounting plates and removable device support Wire holder for cable entry Partition for electrical isolation, snap-on socket, swiveling 90° with EURO insert “Device strap” for tool-free installation Sheet steel door ventilated with white plastic insert, for improved Wifi signals	2 rows*) Niche wall cut out dimensions	855 x 367 x 95 828 x 340 x 88	UK662CW	2CPX031400R9999
	3 rows Niche wall cut out dimensions	855 x 367 x 95 828 x 340 x 88	UK663CW	2CPX031401R9999
Flush-mounted combi enclosure with trim frame and ventilated door				
Wall box with modular perforated sheet steel mounting plates and removable device support Wire holder for cable entry Partition for electrical isolation, “Device strap” for tool-free installation Sheet steel door ventilated	2 rows*) Niche wall cut out dimensions	855 x 367 x 95 828 x 340 x 88	UK662CVC	2CPX031450R9999
	3 rows Niche wall cut out dimensions	855 x 367 x 95 828 x 340 x 88	UK663CVC	2CPX031451R9999
Flush-mounted combination enclosure with trim frame and ventilated Wifi door				
Wall box with modular perforated sheet steel mounting plates and removable device support Wire holder for cable entry Partition for electrical isolation, “Device strap” for tool-free installation Sheet steel door ventilated with white plastic insert, for improved Wifi signals	2 rows*) Niche wall cut out dimensions	855 x 367 x 95 828 x 340 x 88	UK662CWC	2CPX031452R9999
	3 rows Niche wall cut out dimensions	855 x 367 x 95 828 x 340 x 88	UK663CWC	2CPX031453R9999

*) Lock not centered - lock position only left side, right side on request

Consumer units

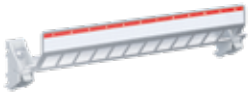
Media - accessories



UZM61M



ZX340



ZE336



ZEP12



ZE338



ZE224



ZE228



ZE225



ZE226

Article	Pieces	Type	Ord. no.
Perforated mounting plate for media enclosures	1	UZM61M	2CPX031421R9999
Media device support Device strap elastic with 2 clips for assembly, e.g. to UZM61M	1	ZX340	2CPX031422R9999
Patch panel empty for communication modules, e.g. RJ45, COAX module, etc. For the direct and insulated assembly to the EDF-rail, DIN rail or mounting plate			
Patch panel, 6-fold	1	ZE335	2CPX031423R9999
Patch panel, 12-fold keystone	1	ZE336	2CPX031424R9999
Patch panel, 12-fold E-Dat.	1	ZE332	2CPX031435R9999
Patchpanel duo, 12-fold E-dat or Keystone	1	ZEP12	2CPX054072R9999
Patch panel holder	1	ZE338	2CPX031426R9999
Single socket Snap-in, swiveling 90° with touch guard and strain relief, for assembling to partition UZB3 with EURO insert	1	ZE224	2CPX031427R9999
Single socket Snap-in, swiveling 90° CH version, for assembling to partition UZB3	1	ZE228	2CPX061212R9999
Dual socket 230 V AC voltage for assembling to mounting plate ZX29 with EURO insert	1	ZE225	2CPX061177R9999
Triple socket 230 V AC voltage, 120° swiveling with EURO insert to be snapped on to the cable inlet or DIN rail; to be screwed to the mounting plate	1	ZE227	2CPX061211R9999

Consumer units

Media - accessories



UZB3



ZX29



UZED1P10



ZX287P10



ZE316



ZE317



ZE318



ZE319



ZE320



ZE311



ZE312



ZB120

Article	Pieces	Type	Ord. no.
Partition For standard-compliant electrical isolation with terminal block with 2 knock-outs for the installation of the socket ZE224 5 knock-outs for assembling keystone modules		UZB3	2CPX031409R9999
Mounting plate For clamping on to terminal carrier or for assembling to the perforated sheet steel plate of the UK... media enclosures and of the 1MM... media panels	1	ZX29	2CPX061178R9999
Wire holder UK600	10	UZED1P10	2CPX031420R9999
Screws M4 x 14 thread rolling for the perforated sheet steel mounting plate	10	ZX287P10	2CPX061180R9999
Connectors for patch panels			
COAX module F/F connector	1	ZE316	2CPX039246R9999
COAX module IEC connector	1	ZE317	2CPX039247R9999
COAX module IEC plug	1	ZE318	2CPX039248R9999
OpDAT module LC guide sleeve, ceramics	1	ZE319	2CPX039249R9999
Blind module	1	ZE320	2CPX039250R9999
RJ45 connector			
Plastic	1	ZE311	2CPX038612R9999
Metal	1	ZE312	2CPX038613R9999
Insulating tube For communication line			
50 mm	1	ZB120	2CPX071111R9999
150 mm	1	ZB122	2CPX071112R9999

Consumer units

Media - accessories and media project kits



BL620V



BL620W



UZS636M

Article	To be used with...	Pieces	Type	Ord. no.
Trim frame with door and ventilation holes Colour: White, RAL 9016 Sheet steel, powder-coated	UK62..	1	BL620V	2CPX031091R9999
	UK63..	1	BL630V	2CPX031092R9999
	UK64..	1	BL640V	2CPX031093R9999
	UK66..	1	BL650V	2CPX031094R9999
	UK662CV*)	1	BL652V	2CPX031099R9999
Trim frame with wifi door and ventilation holes Sheet steel with white plastic insert 30% transparent, for improved Wifi signal	UK62..	1	BL620W	2CPX031095R9999
	UK63..	1	BL630W	2CPX031096R9999
	UK64..	1	BL640W	2CPX031097R9999
	UK66..	1	BL650W	2CPX031098R9999
	UK662CW*)	1	BL652W	2CPX031100R9999
Media kits for project phases modular mounting plates, DIN rail, Patchpanel and device strap elastic	UK63..	1	UZS636M	2CPX077898R9999
	UK64..	1	UZS648M	2CPX077899R9999
	UK66..	1	UZS660M	2CPX077900R9999

*) Lock not centered - lock position only left possible

MISTRAL41 and MISTRAL Multimedia
Sustainability, flexibility and design

Innovating today does not just mean looking for functional and technologically advanced solutions. For ABB, being innovative means embracing a longer-term perspective by using eco-compatible materials for our products which respect the environment even at the end of their life cycle. For this reason, 100 % recyclable halogen-free thermoplastics (for GWT650 versions) have been used for the consumer units. Their environmental compatibility has been evaluated using the Life Cycle Assessment (LCA) method, an objective tool for assessing energy and environmental impact which analyses the energy and materials used and the emissions released during production.

Halogen Free

(for GWT650 versions)





Everything about the MISTRAL series has been designed to make installation easier, allowing you to set up high-quality consumer units that look great anywhere.

Smarter multimedia space
The MISTRAL consumer units can now also integrate all your multimedia equipment, ranging from internet routers to switch panels, antenna and voice splitters and socket outlets. MISTRAL multimedia is available for both flush and hollow-wall installation and comes with a variety of accessories.

Elegant design features
The range of design features includes transparent or opaque doors that open up to 180° enabling full access to the interior of the units. Perfect symmetry also means you can rotate either the front panel or the entire unit to let the door open from the right or the left.

Fast and easy installation
Ample internal space makes cabling fast and easy, and also enables you to anchor cable ties to special eyeholes in the frame. Various snap-on terminal blocks in two different colours can be installed in both the upper and lower part of the units, offering you even more flexibility. The MISTRAL41 series is also fully compatible with a unified range of accessories for a wide variety of applications.

MISTRAL41F
Always a perfect solution for every wall

Our MISTRAL41F series of consumer units gives you the freedom and flexibility to install any type of electrical distribution system in residential buildings. Choose from a brick walll or hollow wall version to meet your individual needs. These IP41-rated units have been designed from scratch to enhance the unique features you expect from ABB in terms of versatility, efficiency and safety. The MISTRAL41F series is one of the widest ranges on the market, so there always is a solution to fit your requirements. The units come in various sizes with three cable entry options and space for up to 72 modules. Everything about the MISTRAL41F series has been designed to make installation easier, allowing you to set up high-quality consumer units you can be proud of.





Reliable technology combined with a modern decorative look in a compact, elegant design.



Door opens up to 180° allowing full access to the interior of the unit.

The symmetrical design allows opening of the reversible door either from the left or from the right.

Door available in two versions: petrol blue and opaque.

Multimedia version for integration of internet routers, antenna or voice splitters.

In the flush-mounted version the depth of the base box ensures a perfect balance between internal space and the possibility of installation in thin walls.

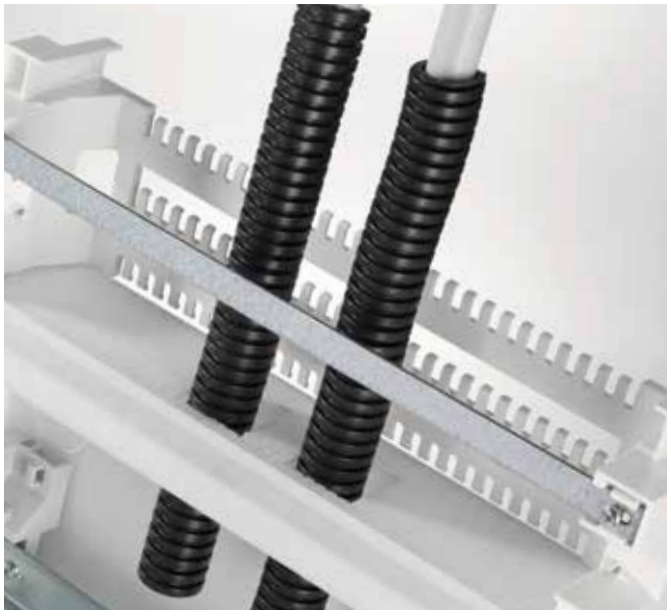
Endless installation possibilities

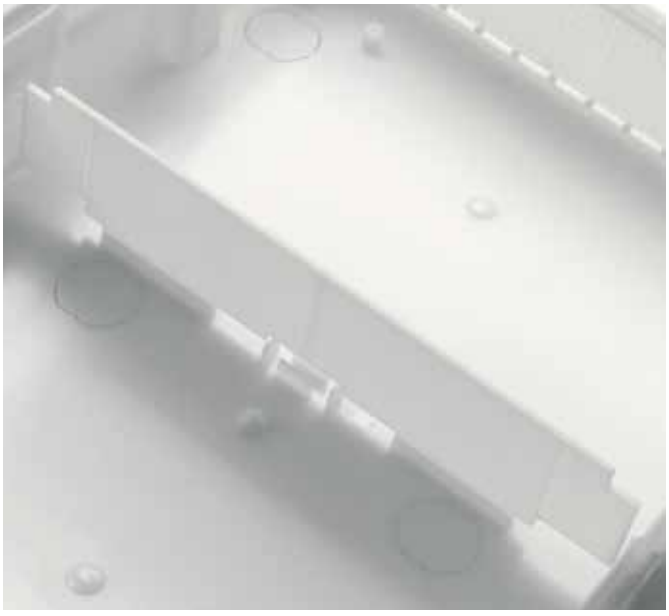
Horizontal coupling
The consumer units can be coupled side by side with the horizontal junction unit accessory, protecting the passage of cables between adjacent units.

Mortar guard
All versions include a mortar guard that prevents mortar sprays inside the consumer unit.









Dual-function accessory
A single accessory performs a dual function. It can be used to fix pipes to the unit's housing or to vertically couple two consumer units.

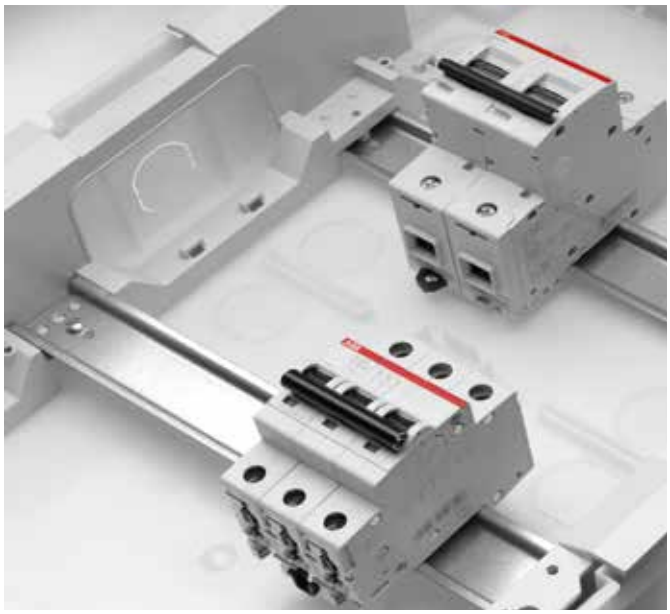
Internal partition
The horizontal partition allows the interior of the unit to be divided into two parts.

Endless installation possibilities

Flanges
The flange with multi pre-cuts is designed to be sheared only where necessary in order to ensure a more secure fastening. The removable flange with knockout holes ensure a reliable and safe placing of flexible pipes and other conduits, especially in plasterboard installation.

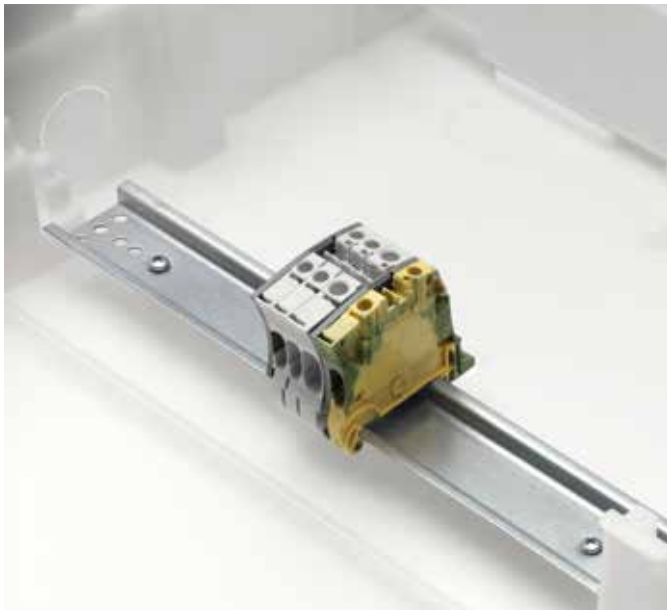


Two DIN rail positions
The extraxtable frame offers two DIN rail positions so devices of different depths, like S200 or S800 miniature circuit breakers, can be installed in perfect alignment.





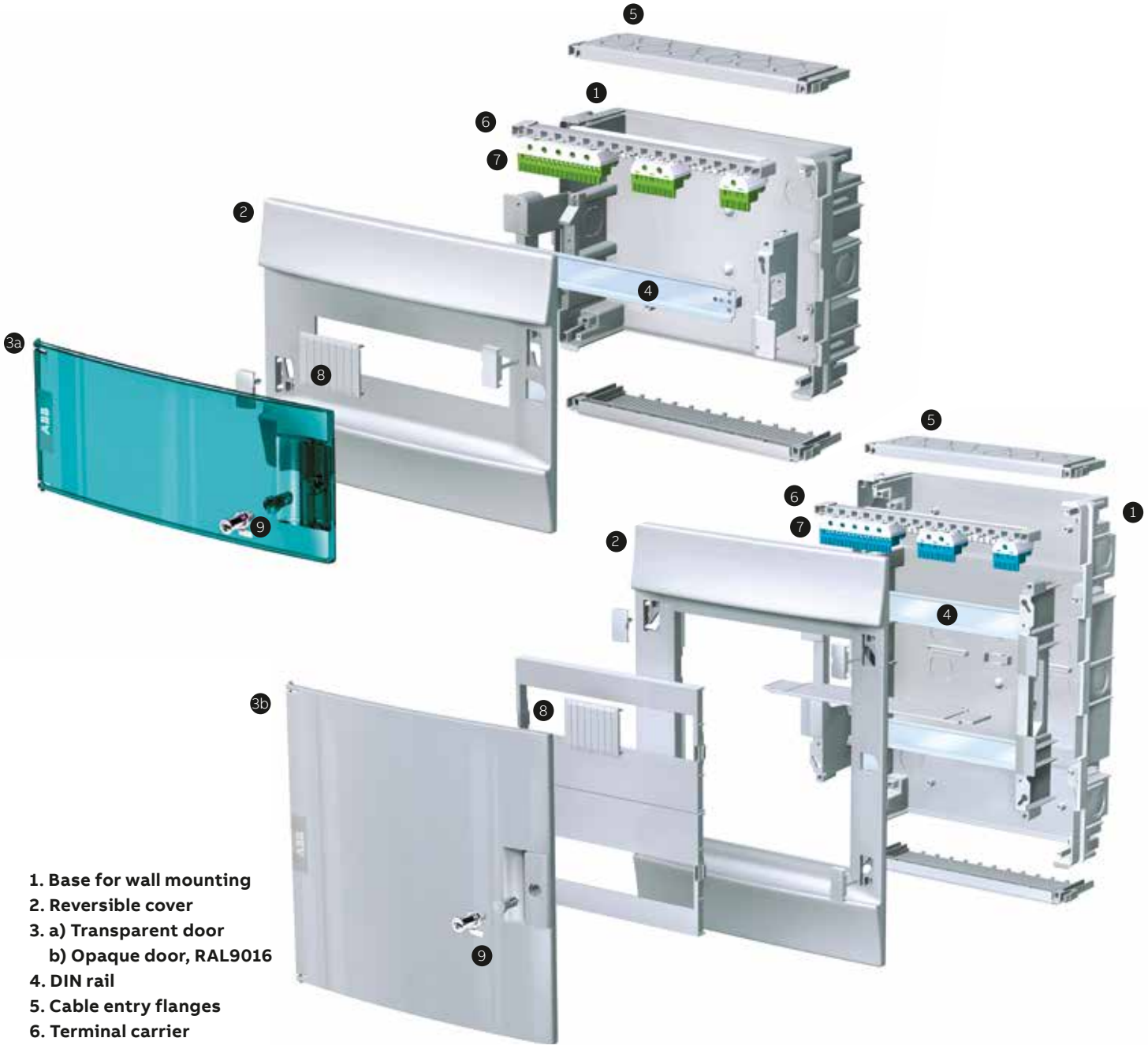
Captive screw covers
Screw covers are hooked to the front panel so they can be removed without the risk of losing them.



DIN rail terminals
It is possible to install an extra DIN rail at the bottom of the consumer unit.

A versatile range suitable for every application

The simple construction of the MISTRAL41F series makes the units fast and easy to assemble. What is more, the flexible design allows easy adaptation to various application requirements.

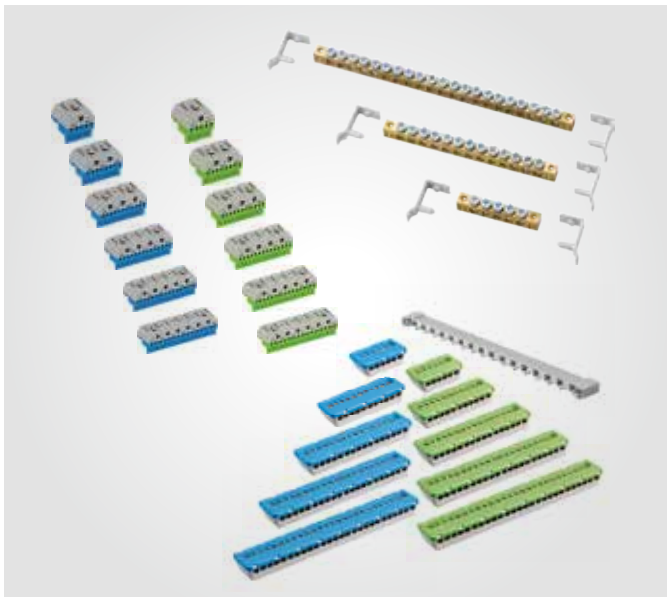


1. Base for wall mounting
2. Reversible cover
3. a) Transparent door
   b) Opaque door, RAL9016
4. DIN rail
5. Cable entry flanges
6. Terminal carrier
7. Quick coupling terminal blocks
8. Module cover
9. Finish or closure element (optional lock)

A versatile range suitable for every application



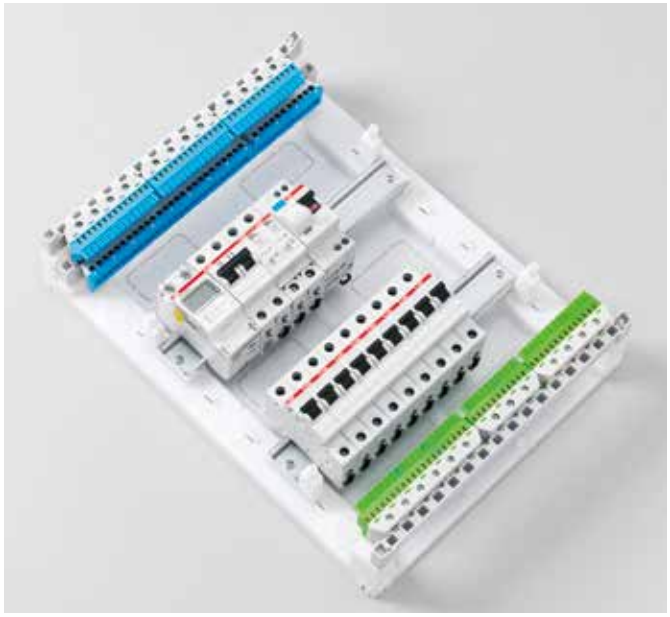
Horiziontal levelling
The external adjustments of the front cover assure a perfect horizontal levelling even if the consumer unit is slightly crooked.



3 different terminal systems available
The MISTRAL range of consumer units is supplied with a wide range of terminal systems: Terminal bars with screws and the two versions of terminal blocks offering screw or screwless couplings.



Hollow wall mounting
For the hollow wall mounting our consumer units provide a special enclosure and hollow mounting screws.



Fast and tidy cabling
Both versions of terminal blocks can be installed on the terminal carriers on the upper and lower part of the unit. They are available in the colors green and blue.

Consumer units

MISTRAL41F – Order codes | Flush-mounted – Brick wall



4 modules



6 modules



8 modules



12 modules



18 modules



24 modules



36 modules

MISTRAL41F – Order codes 650

Description	N° of modules [18 mm]	GWT	Dimensions W x H x D [mm]	Order code	Type number	Packaging
Consumer units MISTRAL41 flush 650 - 1 Row						
Opaque door 4M	4	650	152 x 202 x 105	1SLM004100A1100	41A04X11	1/24
Transparent door 4M	4	650	152 x 202 x 105	1SLM004100A1200	41A04X12	1/24
Front transparent door 4M	4	650	152 x 202 x 25	1SLM004100A1600	41F04X12	1/24
Flush-mounting box 4M	4	650	129 x 182 x 80	1SLM004100A1700	41S04X1	1/24
Opaque door 6M	6	650	192 x 202 x 105	1SLM004100A1101	41A06X11	1/18
Transparent door 6M	6	650	192 x 202 x 105	1SLM004100A1201	41A06X12	1/18
Front transparent door 6M	6	650	192 x 202 x 25	1SLM004100A1601	41F06X12	1/18
Flush-mounting box 6M	6	650	149 x 182 x 80	1SLM004100A1701	41S06X1	1/18
Opaque door 8M	8	650	232 x 250 x 108	1SLM004100A1102	41A08X11	1/12
Transparent door 8M	8	650	232 x 250 x 108	1SLM004100A1202	41A08X12	1/12
Front opaque door 8M	8	650	232 x 250 x 28	1SLM004100A1502	41F08x11	1/12
Front transparent door 8M	8	650	232 x 250 x 28	1SLM004100A1602	41F08X12	1/12
Flush-mounting box 8M	8	650	206 x 230 x 80	1SLM004100A1702	41S08X1	1/12
Opaque door 12M	12	650	320 x 250 x 108	1SLM004100A1103	41A12X11	1/9
Transparent door 12M	12	650	320 x 250 x 108	1SLM004100A1203	41A12X12	1/9
Front opaque door 12M	12	650	320 x 250 x 28	1SLM004100A1503	41F12x11	1/9
Front transparent door 12M	12	650	320 x 250 x 28	1SLM004100A1603	41F12X12	1/9
Flush-mounting box 12M	12	650	294 x 230 x 80	1SLM004100A1703	41S12X1	1/9
Opaque door 18M	18	650	430 x 250 x 108	1SLM004100A1104	41A18X11	1/6
Transparent door 18M	18	650	430 x 250 x 108	1SLM004100A1204	41A18X12	1/6
Front transparent door 18M	18	650	430 x 250 x 28	1SLM004100A1604	41F18X12	1/6
Flush-mounting box 18M	18	650	404 x 230 x 80	1SLM004100A1704	41S18X1	1/6
Consumer units MISTRAL41 flush 650 - 2 Rows						
Opaque door 24M	24	650	320 x 435 x 108	1SLM004100A1105	41A12X21	1/5
Transparent door 24M	24	650	320 x 435 x 108	1SLM004100A1205	41A12X22	1/5
Front opaque door 24M	24	650	320 x 435 x 28	1SLM004100A1505	41F12x21	1/5
Front transparent door 24M	24	650	320 x 435 x 28	1SLM004100A1605	41F12X22	1/5
Flush-mounting box 24M	24	650	294 x 415 x 80	1SLM004100A1705	41S12X2	1/5
Opaque door 36M 2F	36	650	430 x 435 x 108	1SLM004100A1106	41A18X21	1/3
Transparent door 36M 2F	36	650	430 x 435 x 108	1SLM004100A1206	41A18X22	1/3

Consumer units

MISTRAL41F – Order codes | Flush-mounted – Brick wall



36 modules



54 modules



48 modules



72 modules

MISTRAL41F – Order codes 650

Description	N° of modules [18 mm]	GWT	Dimensions W x H x D [mm]	Order code	Type number	Packaging
Consumer units MISTRAL41 flush 650 - 3 Rows						
Opaque door 36M 3F	36	650	320 x 600 x 108	1SLM004100A1107	41A12X31	1/4
Transparent door 36M 3F	36	650	320 x 600 x 108	1SLM004100A1207	41A12X32	1/4
Front opaque door 36M 3F	36	650	320 x 600 x 28	1SLM004100A1507	41F12x31	1/4
Front transparent door 36M3F	36	650	320 x 600 x 28	1SLM004100A1607	41F12x32	1/4
Flush-mounting box 36M 3F	36	650	294 x 580 x 80	1SLM004100A1707	41S12x31	1/4
Opaque door 54M	54	650	430 x 600 x 128	1SLM004100A1109	41A18X31	1/1
Transparent door 54M	54	650	430 x 600 x 128	1SLM004100A1209	41A18X32	1/1
Consumer units MISTRAL41 flush 650 - 4 Rows						
Opaque door 48M	48	650	320 x 735 x 108	1SLM004100A1108	41A12X41	1/4
Transparent door 48M	48	650	320 x 735 x 108	1SLM004100A1208	41A12X42	1/4
Opaque door 72M	72	650	430 x 735 x 128	1SLM004100A1110	41A18X41	1/1
Transparent door 72M	72	650	430 x 735 x 128	1SLM004100A1210	41A18X42	1/1

All units on this page will be delivered without connection terminals

Consumer units

MISTRAL41F – Order codes | Flush-mounted – Hollow wall



4 modules



6 modules



8 modules



12 modules



18 modules



24 modules



36 modules

MISTRAL41F – Order codes 850*

Description	N° of modules [18 mm]	GWT	Dimensions W x H x D [mm]	Order code	Type number	Packaging
Consumer units MISTRAL41 flush 850 - 1 Row						
Opaque door 4M	4	850	152 x 202 x 105	1SLM004100A1300	41C04X11	1/24
Transparent door 4M	4	850	152 x 202 x 105	1SLM004100A1400	41C04X12	1/24
Opaque door 6M	6	850	192 x 202 x 105	1SLM004100A1301	41C06X11	1/18
Transparent door 6M	6	850	192 x 202 x 105	1SLM004100A1401	41C06X12	1/18
Opaque door 8M	8	850	232 x 250 x 108	1SLM004100A1302	41C08X11	1/12
Transparent door 8M	8	850	232 x 250 x 108	1SLM004100A1402	41C08X12	1/12
Opaque door 12M	12	850	320 x 250 x 108	1SLM004100A1303	41C12X11	1/9
Transparent door 12M	12	850	320 x 250 x 108	1SLM004100A1403	41C12X12	1/9
Opaque door 18M	18	850	430 x 250 x 108	1SLM004100A1304	41C18X11	1/6
Transparent door 18M	18	850	430 x 250 x 108	1SLM004100A1404	41C18X12	1/6
Consumer units MISTRAL41 flush 850 - 2 Rows						
Opaque door 24M	24	850	320 x 435 x 108	1SLM004100A1305	41C12X21	1/5
Transparent door 24M	24	850	320 x 435 x 108	1SLM004100A1405	41C12X22	1/5
Opaque door 36M 2F	36	850	430 x 435 x 108	1SLM004100A1306	41C18X21	1/3
Transparent door 36M 2F	36	850	430 x 435 x 108	1SLM004100A1406	41C18X22	1/3

* hollow wall kit 41Z142 in scope of delivery

Consumer units

MISTRAL41F – Order codes | Flush-mounted – Hollow wall



36 modules



54 modules



48 modules



72 modules

MISTRAL41F – Order codes 850*

Description	N° of modules [18 mm]	GWT	Dimensions W x H x D [mm]	Order code	Type number	Packaging
Consumer units MISTRAL41 flush 850 - 3 Rows						
Opaque door 36M 3F	36	850	320 x 600 x 108	1SLM004100A1307	41C12X31	1/4
Transparent door 36M 3F	36	850	320 x 600 x 108	1SLM004100A1407	41C12X32	1/4
Opaque door 54M	54	850	430 x 600 x 128	1SLM004100A1309	41C18X31	1/1
Transparent door 54M	54	850	430 x 600 x 128	1SLM004100A1409	41C18X32	1/1
Consumer units MISTRAL41 flush 850 - 4 Rows						
Opaque door 48M	48	850	320 x 735 x 108	1SLM004100A1308	41C12X41	1/1
Transparent door 48M	48	850	320 x 735 x 108	1SLM004100A1408	41C12X42	1/1
Opaque door 72M	72	850	430 x 735 x 128	1SLM004100A1310	41C18X41	1/1
Transparent door 72M	72	850	430 x 735 x 128	1SLM004100A1410	41C18X42	1/1

* hollow wall kit 41Z142 in scope of delivery

All units on this page will be delivered without connection terminals

Consumer units

MISTRAL41F – Order codes with terminals | Flush-mounted – Brick wall



8 modules





12 modules





18 modules





24 modules





36 modules





36 modules





MISTRAL41F – Order codes 650

Description	N° of modules [18 mm]	GWT	Dimensions W x H x D [mm]	Order code	Type number	Packaging
MISTRAL41 flush						
Opaque door 8M 12SM	8	650	232 x 250 x 108	1SLM004102A1102	41A08X11A	1/12
Transparent door 8M 12SM	8	650	232 x 250 x 108	1SLM004101A1202	41A08X12A	1/12
N 3x6mm² + 3x16mm² PE 3x6mm² + 3x16mm²						
Opaque door 12M 12SM	12	650	320 x 250 x 108	1SLM004102A1103	41A12X11A	1/9
Transparent door 12M 12SM	12	650	320 x 250 x 108	1SLM004101A1203	41A12X12A	1/9
N 3x6mm² + 3x16mm² PE 3x6mm² + 3x16mm²						
Opaque door 18M 22SM	18	650	430 x 250 x 108	1SLM004102A1104	41A18X11A	1/16
Transparent door 18M 22SM	18	650	430 x 250 x 108	1SLM004101A1204	41A18X12A	1/16
N 6x6mm² + 5x16mm² PE 6x6mm² + 5x16mm²						
Opaque door 24M 32SM	24	650	320 x 435 x 108	1SLM004102A1105	41A12X21A	1/5
Transparent door 24M 32SM	24	650	320 x 435 x 108	1SLM004101A1205	41A12X22A	1/5
N 9x6mm² + 7x16mm² PE 9x6mm² + 7x16mm²						
Opaque door 36M 2F 42SM	36	650	430 x 435 x 108	1SLM004102A1106	41A18X21A	1/3
Transparent door 36M 2F 42SM	36	650	430 x 435 x 108	1SLM004101A1206	41A18X22A	1/3
N 12x6mm² + 9x16mm² PE 12x6mm² + 9x16mm²						
Opaque door 36M 3F 44SM	36	650	320 x 600 x 108	1SLM004102A1107	41A12X31A	1/4
Transparent door 36M 3F 44SM	36	650	320 x 600 x 108	1SLM004101A1207	41A12X32A	1/4
N 2 pcs. 6x6mm² + 5x16mm² PE 2 pcs. 6x6mm² + 5x16mm²						

Consumer units

MISTRAL41F – Order codes with terminals | Flush-mounted – Brick wall



54 modules



MISTRAL41F – Order codes 650

Description	N° of modules [18 mm]	GWT	Dimensions W x H x D [mm]	Order code	Type number	Packaging
MISTRAL41 flush						
Opaque door 54M 64SM	54	650	430 x 600 x 128	1SLM004102A1109	41A18X31A	1/1
Transparent door 54M 64SM	54	650	430 x 600 x 128	1SLM004101A1209	41A18X32A	1/1
N 2 pcs. 9x6mm² + 7x16mm² PE 2 pcs. 9x6mm² +7x16mm²						



48 modules

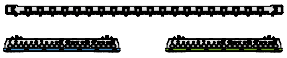


Opaque door 48M 64SM	48	650	320 x 735 x 108	1SLM004102A1108	41A12X41A	1/1
Transparent door 48M 64SM	48	650	320 x 735 x 108	1SLM004101A1208	41A12X42A	1/1
N 2 pcs. 9x6mm² + 7x16mm² PE 2 pcs. 9x6mm² + 7x16mm²						



72 modules





Opaque door 72M 84SM	72	650	430 x 735 x 128	1SLM004102A1110	41A18X41A	1/1
Transparent door 72M 84SM	72	650	430 x 735 x 128	1SLM004101A1210	41A18X42A	1/1
N 2 pcs. 12x6mm² + 9x16mm² PE 2 pcs. 12x6mm² + 9x16mm²						

Consumer units

MISTRAL41F – accessories





MISTRAL41F – Accessories doors

Description	N° of modules [18 mm]	Order code	Type number	Packaging
Opaque door				
Opaque door 4M MISTRAL41F	4	1SLM004100A1900	41Z83	1/20
Opaque door 6M MISTRAL41F	6	1SLM004100A1916	41Z84	1/20
Opaque door 8M MISTRAL41F	8	1SLM004100A1902	41Z85	1/10
Opaque door 12M MISTRAL41F	12	1SLM004100A1904	41Z86	1/20
Opaque door 18M MISTRAL41F	18	1SLM004100A1906	41Z87	1/20
Opaque door 24M / 48M MISTRAL41F	24	1SLM004100A1908	41Z88	1/15
Opaque door 36M 3F MISTRAL41F	36	1SLM004100A1910	41Z89	1/10
Opaque door 36M 2F / 72M MISTRAL41F	36	1SLM004100A1912	41Z90	1/10
Opaque door 54M MISTRAL41F	54	1SLM004100A1914	41Z91	1/5
Transparent door				
Transparent door 4M MISTRAL41F	4	1SLM004100A1901	41Z92	1/20
Transparent door 6M MISTRAL41F	6	1SLM004100A1917	41Z93	1/20
Transparent door 8M MISTRAL41F	8	1SLM004100A1903	41Z94	1/10
Transparent door 12M MISTRAL41F	12	1SLM004100A1905	41Z95	1/20
Transparent door 18M MISTRAL41F	18	1SLM004100A1907	41Z96	1/20
Transparent door 24M / 48M MISTRAL41F	24	1SLM004100A1909	41Z97	1/15
Transparent door 36M 3F MISTRAL41F	36	1SLM004100A1911	41Z98	1/10
Transparent door 36M 2F / 72M MISTRAL41F	36	1SLM004100A1913	41Z99	1/10
Transparent door 54M MISTRAL41F	54	1SLM004100A1915	41Z100	1/5

Consumer units

MISTRAL41F – accessories



41Z01, 41Z02



41Z03, 41Z04

41Z05



41Z06



41Z07, 41Z08, 41Z09, 41Z10

41Z11



41Z12



41Z13

MISTRAL41F – Other accessories

Description	N° of modules [18 mm]	Order code	Type number	Packaging
Other accessories				
Horizontal partition 12M MISTRAL41F	12	1SLM004100A1920	41Z01	1/100
Horizontal partition 18M MISTRAL41F	18	1SLM004100A1921	41Z02	1/100
Vertical coupling / tubes holder 12M	12	1SLM004100A1922	41Z03	1/20
Vertical coupling / tubes holder 18M	18	1SLM004100A1923	41Z04	1/15
Module cover 12M RAL9016	12	1SPE007715F5650	41Z05	5/180
Lock with key MISTRAL41 F		1SLM004100A1931	41Z06	20/300
Central blind panel 12M MISTRAL41F	12	1SLM004100A1945	41Z07	1/20
Blind panel 12M MISTRAL41F	12	1SLM004100A1946	41Z08	1/20
Central blind panel 18M MISTRAL41F	18	1SLM004100A1947	41Z09	1/30
Blind panel 18M MISTRAL41F	18	1SLM004100A1948	41Z10	1/30
Horizontal junction unit		1SLM004100A1949	41Z11	1/50
Wires holder comb	12	1SLM004100A1942	41Z12	1/30
Spirit level		1SLM004100A1943	41Z13	1/30

MISTRAL41W
Wall-mounted series

The MISTRAL41W series of consumer units gives installers the freedom and flexibility to implement any type of electrical distribution system in residential buildings. This wide range of wall-mounted, IP41-rated units has been designed from scratch to enhance the unique features that make ABB the leading industry standard.

The units are fast and easy to install and look great anywhere thanks to their elegant design. Furthermore, ample internal space, a choice of doors and a unified range of accessories offer endless possibilities to create high-quality work installers can be proud of.



Fast and easy to be installed. Design and simplicity “all in one”.



Multimedia version for integration of internet routers, antenna or voice splitters.

Door available in two versions: petrol blue and opaque. Units without doors are also available.

Door opens up to 180° allowing full access to theinterior of the unit.

Concealed rear mounts for secure wall installation.

The symmetrical design allows opening of the reversible door either from the left or from the right.

Endless installation possibilities

Invisible cable entry and exit
Pre-cut knockout slots allow cable entry and exit from the top and bottom. When not used, the slots remain invisible on the outside maintaining the consumer unit's sleek look and feel.

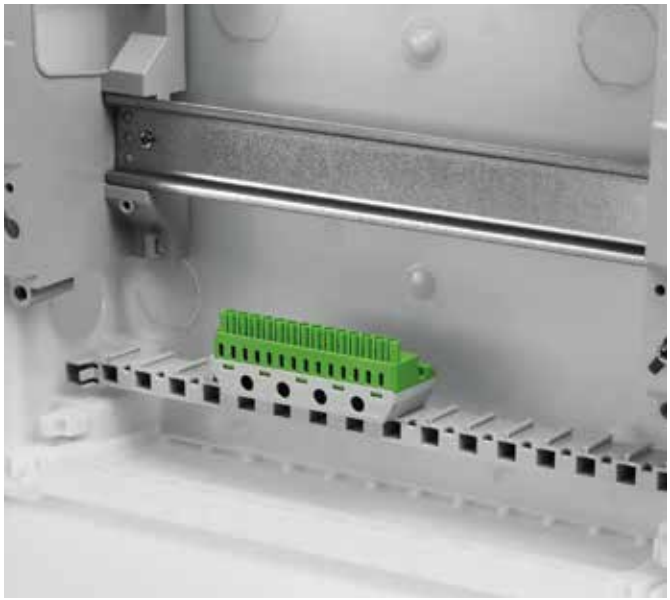


More than enough internal space
Lots of internal space makes cabling even easier. Cable clips and holes allow wires to be fastened to the frame with simple cable ties.





Easy installation of extra modules
An extra module can be added by removing two pre-cut elements. This offers a quick and easy solution when unexpected additional installation is required.



Terminal blocks – screwless version
Time-saving installation thanks to the snap-on system of the screwless terminal blocks which can simply be plugged into the terminal carriers.

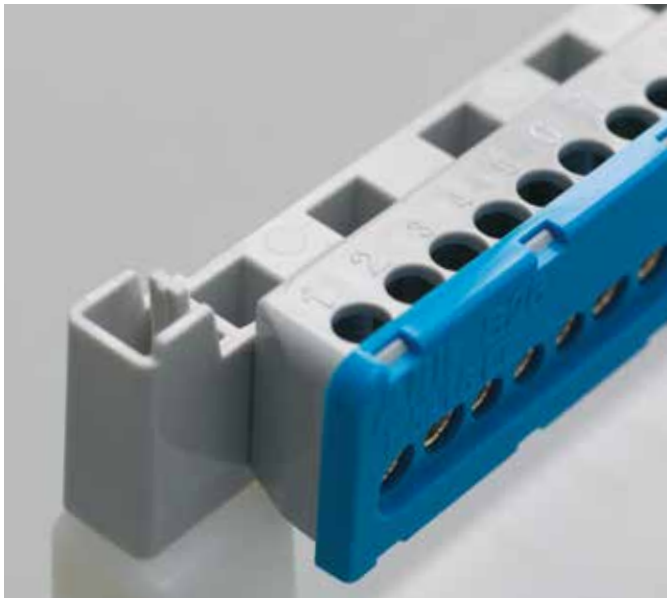
Endless installation possibilities

Double insulation protection
The unit housing and all accessories have been designed and developed to ensure Class II double insulation protection.

Multi-row units
Multi-row units are available with a standard distance of 125 mm between DIN rails.







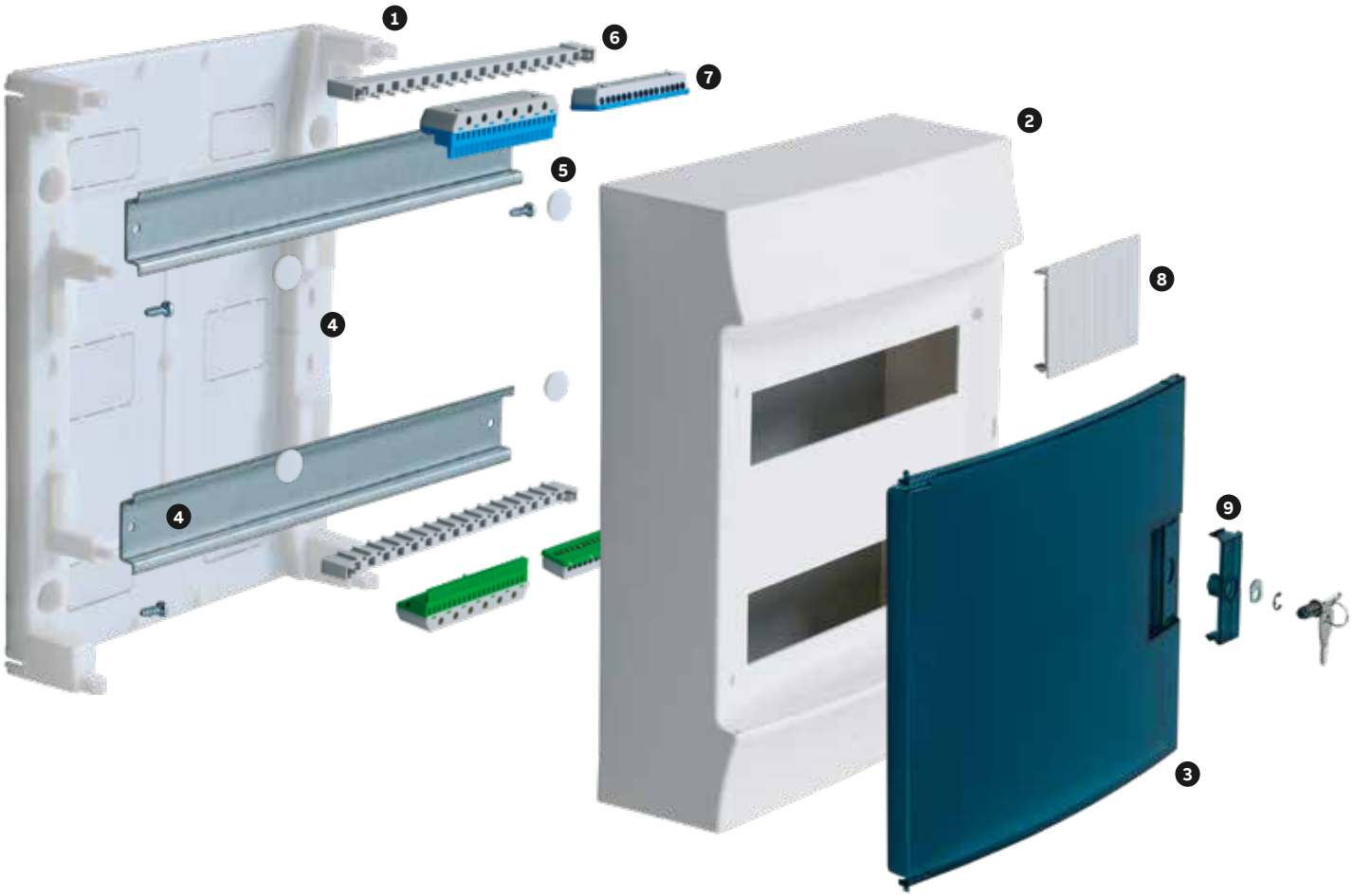


Terminal blocks – screw version
Within the flexible modular concept the new terminal blocks both screw and screwless versions ensure easy and effective cabling up to 63A or 100A.

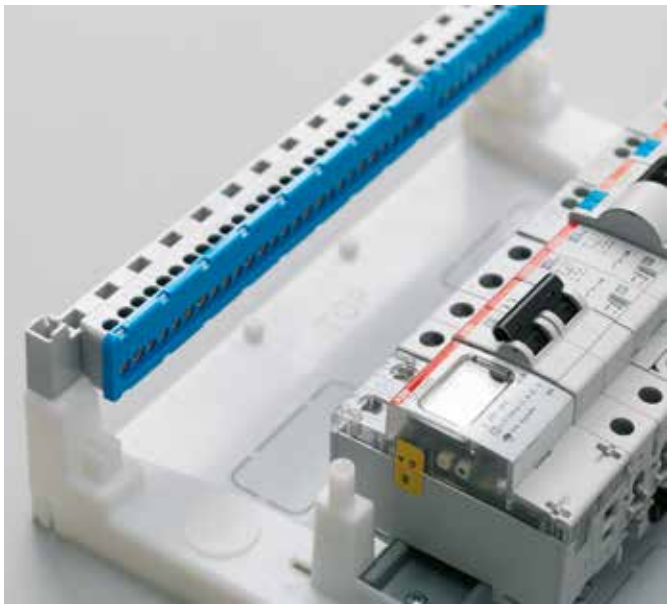
Optional door lock
The standard door with ergonomic handle is available with a lock for additional security.

A versatile range suitable for every application

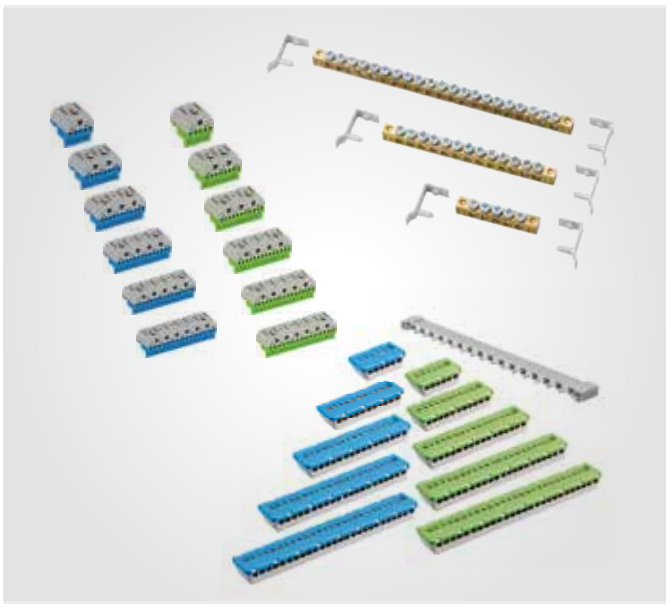
The simple construction of the MISTRAL41W series makes the units fast and easy to assemble. Furthermore, they can be easily adapted to various application requirements thanks to their flexible design.



1. Base for wall mounting
2. Reversible cover
3. Transparent door
4. DIN rail
5. Plugs, protection class II
6. Terminal carrier
7. Quick coupling terminal blocks
8. Module cover
9. Finish or closure element (optional lock)



A unified range of products
The MISTRAL41W series is compatible with a unified range of ABB products. As a result, terminal blocks, circuit breakers, switches, surge protective devices and many other components can all be installed in the units for a wide variety of applications.



3 different terminal systems available
Choose from a range of terminal bars or two versions of terminal blocks for precise configurations responding to individual requirements thanks to the flexible modular concept.

You can find all additional information, technical details and service offers on the ABB website whenever you need them. If you miss some information or need additional support you can also contact your local ABB retailer or ABB sales representative. They would be happy to assist you.

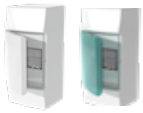


Consumer units

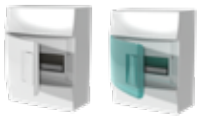
MISTRAL41W – Order codes wall-mounted (650)



2 modules



4 modules



8 modules



12 modules



18 modules



24 modules



36 modules

MISTRAL41W – Order codes 650

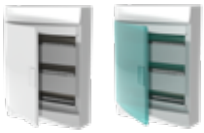
Description	N° of modules [18 mm]	GWT	Dimensions W x H x D [mm]	Order code	Type code	Packaging
Consumer units MISTRAL41 wall - 1 Row						
Without door 2M	2	650	68 x 210 x 93	1SPE007717F0100	41P02X10	1/36
Without door 4M	4	650	96 x 210 x 93	1SPE007717F0200	41P04X10	1/24
Opaque door 4M	4	650	96 x 210 x 93	1SPE007717F0210	41P04X11	1/24
Transparent door 4M	4	650	96 x 210 x 93	1SPE007717F0220	41P04X12	1/24
Without door 8M	8	650	202 x 257 x 120	1SPE007717F0300	41P08X10	1/7
Opaque door 8M	8	650	202 x 257 x 120	1SPE007717F0310	41P08X11	1/7
Transparent door 8M	8	650	202 x 257 x 120	1SPE007717F0320	41P08X12	1/7
Without door 12M	12	650	292 x 257 x 120	1SPE007717F0400	41P12X10	1/3
Opaque door 12M	12	650	292 x 257 x 120	1SPE007717F0410	41P12X11	1/3
Transparent door 12M	12	650	292 x 257 x 120	1SPE007717F0420	41P12X12	1/3
Without door 18M	18	650	382 x 257 x 120	1SPE007717F0800	41P18X10	1/3
Opaque door 18M	18	650	382 x 257 x 120	1SPE007717F0810	41P18X11	1/3
Transparent door 18M	18	650	382 x 257 x 120	1SPE007717F0820	41P18X12	1/3
Consumer units MISTRAL41 wall - 2 Rows						
Without door 24M	24	650	292 x 382 x 120	1SPE007717F0500	41P12X20	1/2
Opaque door 24M	24	650	292 x 382 x 120	1SPE007717F0510	41P12X21	1/2
Transparent door 24M	24	650	292 x 382 x 120	1SPE007717F0520	41P12X22	1/2
Without door 36M 2F	36	650	382 x 382 x 120	1SPE007717F0900	41P18X20	1/2
Opaque door 36M 2F	36	650	382 x 382 x 120	1SPE007717F0910	41P18X21	1/2
Transparent door 36M 2F	36	650	382 x 382 x 120	1SPE007717F0920	41P18X22	1/2

Consumer units

MISTRAL41W – Order codes wall-mounted (650)



36 modules



54 modules



48 modules



72 modules

MISTRAL41W – Order codes 650

Description	N° of modules [18 mm]	GWT	Dimensions W x H x D [mm]	Order code	Type code	Packaging
Consumer units MISTRAL41 wall - 3 Rows						
Without door 36M 3F	36	650	292 x 507 x 120	1SPE007717F0600	41P12X30	1/2
Opaque door 36M 3F	36	650	292 x 507 x 120	1SPE007717F0610	41P12X31	1/2
Transparent door 36M 3F	36	650	292 x 507 x 120	1SPE007717F0620	41P12X32	1/2
Without door 54M	54	650	382 x 507 x 120	1SPE007717F1000	41P18X30	1/2
Opaque door 54M	54	650	382 x 507 x 120	1SPE007717F1010	41P18X31	1/2
Transparent door 54M	54	650	382 x 507 x 120	1SPE007717F1020	41P18X32	1/2
Consumer units MISTRAL41 wall - 4 Rows						
Without door 48M	48	650	292 x 656 x 120	1SPE007717F0700	41P12X40	1/1
Opaque door 48M	48	650	292 x 656 x 120	1SPE007717F0710	41P12X41	1/1
Transparent door 48M	48	650	292 x 656 x 120	1SPE007717F0720	41P12X42	1/1
Without door 72M	72	650	382 x 656 x 120	1SPE007717F1100	41P18X40	1/1
Opaque door 72M	72	650	382 x 656 x 120	1SPE007717F1110	41P18X41	1/1
Transparent door 72M	72	650	382 x 656 x 120	1SPE007717F1120	41P18X42	1/1

All units on this page will be delivered without connection terminals

Consumer units

MISTRAL41W – Order codes wall-mounted (750)



2 modules



4 modules



8 modules



12 modules



18 modules



24 modules



36 modules

MISTRAL41W – Order codes 750

Description	N° of modules [18 mm]	GWT	Dimensions W x H x D [mm]	Order code	Type code	Packaging
Consumer units MISTRAL41 wall - 1 Row						
Without door* 2M	2	750	68 x 210 x 93	1SPE007717F1500	41P02X100750	1/36
Without door* 4M	4	750	96 x 210 x 93	1SPE007717F1600	41P04X100750	1/24
Without door* 8M	8	750	202 x 257 x 120	1SPE007717F1700	41P08X100750	1/7
Without door* 12M	12	750	292 x 257 x 120	1SPE007717F1800	41P12X100750	1/3
Without door* 18M	18	750	382 x 257 x 120	1SPE007717F2200	41P12X200750	1/3
Consumer units MISTRAL41 wall - 2 Rows						
Without door* 24M	24	750	292 x 382 x 120	1SPE007717F1900	41P12X300750	1/2
Without door* 36M 2F	36	750	382 x 382 x 120	1SPE007717F2300	41P12X400750	1/2

* Doors can be ordered separately

Consumer units

MISTRAL41W – Order codes wall-mounted (750)



36 modules



54 modules



48 modules



72 modules

MISTRAL41W – Order codes 750

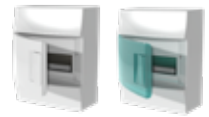
Description	N° of modules [18 mm]	GWT	Dimensions W x H x D [mm]	Order code	Type code	Packaging
Consumer units MISTRAL41 wall - 3 Rows						
Without door 36M* 3F	36	750	292 x 507 x 120	1SPE007717F2000	41P18X100750	1/2
Without door 54M*	54	750	382 x 507 x 120	1SPE007717F2400	41P18X300750	1/2
Consumer units MISTRAL41 wall - 4 Rows						
Without door 48M*	48	750	292 x 656 x 120	1SPE007717F2100	41P18X200750	1/1
Without door 72M*	72	750	382 x 656 x 120	1SPE007717F2500	41P18X400750	1/1

* Doors can be ordered separately

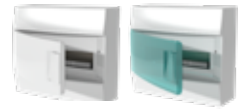
All units on this page will be delivered without connection terminals

Consumer units

MISTRAL41W – Order codes with terminals (650)



8 modules



12 modules



18 modules



24 modules



36 modules



36 modules

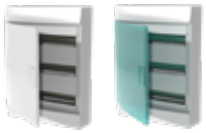


MISTRAL41W – Order codes

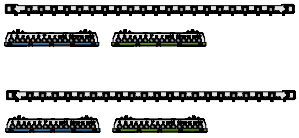
Description	N° of modules [18 mm]	GWT	Dimensions W x H x D [mm]	Order code	Type code	Packaging
Consumer units MISTRAL41W						
Opaque door 8M 12SM	8	650	202 x 257 x 120	1SLM004102A3102	41P08X11A	1/7
Transparent door 8M 12SM	8	650	202 x 257 x 120	1SPE007717F0321	41P08X12A	1/7
N 3x6mm² + 3x16mm² PE 3x6mm² + 3x16mm²						
Opaque door 12M 12SM	12	650	292 x 257 x 120	1SLM004102A3103	41P12X11A	1/3
Transparent door 12M 12SM	12	650	292 x 257 x 120	1SPE007717F0421	41P12X12A	1/3
N 3x6mm² + 3x16mm² PE 3x6mm² + 3x16mm²						
Opaque door 18M 22SM	18	650	382 x 257 x 120	1SLM004102A3104	41P12X21A	1/3
Transparent door 18M 22SM	18	650	382 x 257 x 120	1SPE007717F0821	41P12X22A	1/3
N 6x6mm² + 5x16mm² PE 6x6mm² + 5x16mm²						
Opaque door 24M 32SM	24	650	292 x 382 x 120	1SLM004102A3105	41P12X31A	1/2
Transparent door 24M 32SM	24	650	292 x 382 x 120	1SPE007717F0521	41P12X32A	1/2
N 9x6mm² + 7x16mm² PE 9x6mm² + 7x16mm²						
Opaque door 36M 2F 42SM	36	650	382 x 382 x 120	1SLM004102A3106	41P12X41A	1/2
Transparent door 36M 2F 42SM	36	650	382 x 382 x 120	1SPE007717F0921	41P12X42A	1/2
N 12x6mm² + 9x16mm² PE 12x6mm² + 9x16mm²						
Opaque door 36M 3F 44SM	36	650	292 x 507 x 120	1SLM004102A3107	41P18X11A	1/2
Transparent door 36M 3F 44SM	36	650	292 x 507 x 120	1SPE007717F0621	41P18X12A	1/2
N 2 pcs. 6x6mm² + 5x16mm² PE 2 pcs. 6x6mm² + 5x16mm²						

Consumer units

MISTRAL41W – Order codes with terminals (650)



54 modules



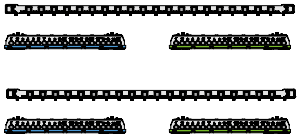


48 modules





72 modules



MISTRAL41W – Order codes

Description	N° of modules [18 mm]	GWT	Dimensions W x H x D [mm]	Order code	Type code	Packaging
Consumer units MISTRAL41W						
Opaque door 54M 64SM	54	650	382 x 507 x 120	1SLM004102A3109	41P18X31A	1/2
Transparent door 54M 64SM	54	650	382 x 507 x 120	1SPE007717F1021	41P18X32A	1/2
N 2 pcs. 9x6mm² + 7x16mm² PE 2 pcs. 9x6mm² +7x16mm²						
Opaque door 48M 64SM	48	650	292 x 656 x 120	1SLM004102A3108	41P18X21A	1/1
Transparent door 48M 64SM	48	650	292 x 656 x 120	1SPE007717F0721	41P18X22A	1/1
N 2 pcs. 9x6mm² + 7x16mm² PE 2 pcs. 9x6mm² + 7x16mm²						
Opaque door 72M 84SM	72	650	382 x 656 x 120	1SLM004102A3110	41P18X41A	1/1
Transparent door 72M 84SM	72	650	382 x 656 x 120	1SPE007717F1121	41P18X42A	1/1
N 2 pcs. 12x6mm² + 9x16mm² PE 2 pcs. 12x6mm² + 9x16mm²						

Consumer units

MISTRAL41W – Order codes accessories





MISTRAL41W – Accessories doors

Description	N° of modules [18 mm]	Order code	Type code	Packaging
Opaque door (650)				
Opaque door 4M MISTRAL41W	4	1SPE007717F9900	41Z33	1/24
Opaque door 8M MISTRAL41W	8	1SPE007717F9901	41Z34	1/14
Opaque door 12M MISTRAL41W	12	1SPE007717F9902	41Z35	1/14
Opaque door 24/48M MISTRAL41W	24/48	1SPE007717F9903	41Z36	1/15
Opaque door 36M (3 rows) MISTRAL41W	36	1SPE007717F9904	41Z37	1/18
Opaque door 18M MISTRAL41W	18	1SPE007717F9905	41Z38	1/14
Opaque door 36/72M (2 rows) MISTRAL41W	36/72	1SPE007717F9906	41Z39	1/18
Opaque door 54M MISTRAL41W	54	1SPE007717F9907	41Z40	1/18
Opaque door (750)				
Opaque door 4M 750 MISTRAL41W	4	1SPE007717F9924	41Z49	1/24
Opaque door 8M 750 MISTRAL41W	8	1SPE007717F9925	41Z50	1/14
Opaque door 12M 750 MISTRAL41W	12	1SPE007717F9926	41Z51	1/14
Opaque door 24/48M 750 MISTRAL41W	24/48	1SPE007717F9927	41Z52	1/15
Opaque door 36M (3 rows) 750 MISTRAL41W	36	1SPE007717F9928	41Z53	1/18
Opaque door 18M 750 MISTRAL41W	18	1SPE007717F9929	41Z54	1/14
Opaque door 36/72M (2 rows) 750 MISTRAL41W	36/72	1SPE007717F9930	41Z55	1/18
Opaque door 54M 750 MISTRAL41W	54	1SPE007717F9931	41Z56	1/18
Transparent door (650/750)				
Transparent door blue 4M MISTRAL41W	4	1SPE007717F9908	41Z41	1/24
Transparent door blue 8M MISTRAL41W	8	1SPE007717F9909	41Z42	1/14
Transparent door blue 12M MISTRAL41W	12	1SPE007717F9910	41Z43	1/14
Transparent door blue 24/48M MISTRAL41W	24/48	1SPE007717F9911	41Z44	1/15
Transparent door blue 36M (3 rows) MISTRAL41W	36	1SPE007717F9912	41Z45	1/18
Transparent door blue 18M MISTRAL41W	18	1SPE007717F9913	41Z46	1/14
Transparent door blue 36/72M (2 rows) MISTRAL41W	36/72	1SPE007717F9914	41Z47	1/18
Transparent door blue 54M MISTRAL41W	54	1SPE007717F9915	41Z48	1/18

Consumer units

MISTRAL41W – Order codes accessories



41Z14, 41Z15, 41Z16



41Z17, 41Z18



41Z19, 41Z20



41Z21, 41Z22



41Z23, 41Z24



41Z23, 41Z24

MISTRAL41W – Other accessories

Description	N° of modules [18 mm]	Order code	Type code	Packaging
Other accessories				
Lock set white LMW		1SPE007715F5009	41Z14	1
Lock set blue LMB		1SPE007715F5010	41Z16	1
Flange for conduit derivation GWT 650		1SLM004100A1951	41Z17	1/30
Flange for conduit derivation GWT 750		1SPE007715F5111	41Z18	1/30
Label holder 12M	12	1SPE007715F5012	41Z19	5
Label holder 18M	18	1SPE007715F5018	41Z20	5
Partition wall 12M	12	1SPE007715F5112	41Z21	5
Partition wall 18M	18	1SPE007715F5118	41Z22	5
MCB cover 12M GWT 650	12	1SPE007715F5650	41Z23	5/180
MCB cover 12M GWT 750	12	1SPE007715F5750	41Z24	5/180
coupling element M41W		1SLM004100A3910	41Z118	100/3000

Consumer units

Terminal blocks



ZKS11B



ZKS11G

SCREW – Terminal blocks

Article	Number terminals 1.5 x 6 mm²	Number terminals 1.5 x 16 mm²	maximum rated current [A]	Packaging pack/bulk	Type	Ord. no.
N screw-terminals For terminal carriers	3 x 6	3 x 16	100	1 5/270	ZKS6B 41Z57	2CPX063167R9999 1SPE007715F0731
	6 x 6	5 x 16	100	1 5/150	ZKS11B 41Z58	2CPX063168R9999 1SPE007715F0732
	9 x 6	7 x 16	100	1 5/120	ZKS16B 41Z59	2CPX063169R9999 1SPE007715F0733
	12 x 6	9 x 16	100	1 5/90	ZKS21B 41Z60	2CPX063170R9999 1SPE007715F0734
	15 x 6	11 x 16	100	1 5/90	ZKS26B 41Z61	2CPX063171R9999 1SPE007715F0735
PE screw-terminals For terminal carriers	3 x 6	3 x 16	100	1 5/270	ZKS6G 41Z62	2CPX063172R9999 1SPE007715F0741
	6 x 6	5 x 16	100	1 5/150	ZKS11G 41Z63	2CPX063173R9999 1SPE007715F0742
	9 x 6	7 x 16	100	1 5/120	ZKS16G 41Z64	2CPX063174R9999 1SPE007715F0743
	12 x 6	9 x 16	100	1 5/90	ZKS21G 41Z65	2CPX063175R9999 1SPE007715F0744
	15 x 6	11 x 16	100	1 5/90	ZKS26G 41Z66	2CPX063176R9999 1SPE007715F0745



ZK51B



ZK51G

QUICK PLUG – Terminal blocks screwless

N quick-plug terminals For terminal carriers	5 x 1.5 - 4	0 x 25	63	1 5/280	ZK50B 41Z70	2CPX062750R9999 1SPE007715F9701
	5 x 1.5 - 4	1 x 25	63	1 5/180	ZK51B 41Z71	2CPX062751R9999 1SPE007715F9702
	8 x 1.5 - 4	2 x 25	63	1 5/150	ZK82B 41Z72	2CPX062752R9999 1SPE007715F9703
	11 x 1.5 - 4	3 x 25	63	1 5/100	ZK113B 41Z73	2CPX062753R9999 1SPE007715F9704
	14 x 1.5 - 4	4 x 25	63	1 5/90	ZK144B 41Z74	2CPX062754R9999 1SPE007715F9705
	14 x 1.5 - 4	5 x 25	63	1 5/70	ZK175B 41Z75	2CPX062755R9999 1SPE007715F9706
	20 x 1.5 - 4	6 x 25	63	1 5/60	ZK206B 41Z76	2CPX062756R9999 1SPE007715F9707
	23 x 1.5 - 4	7 x 25	63	1 5	ZK237B 41Z150	2CPX063163R9999 1SPE007715F9708
	26 x 1.5 - 4	8 x 25	63	1 5	ZK268B 41Z151	2CPX063164R9999 1SPE007715F9709
N quick-plug terminals	5 x 1.5 - 4	0 x 25	63	1	ZK50BT	2CPX062745R9999
With adapter ZK15 for lateral assembling in the UK6... or for fastening to the DIN rail						
PE quick-plug terminals For terminal carriers	5 x 1.5 - 4	1 x 25	63	1 5/180	ZK51G 41Z77	2CPX062757R9999 1SPE007715F9712
	8 x 1.5 - 4	2 x 25	63	1 5/150	ZK82G 41Z78	2CPX062758R9999 1SPE007715F9713
	11 x 1.5 - 4	3 x 25	63	1 5/100	ZK113G 41Z79	2CPX062759R9999 1SPE007715F9714
	14 x 1.5 - 4	4 x 25	63	1 5/90	ZK144G 41Z80	2CPX062760R9999 1SPE007715F9715
	17 x 1.5 - 4	5 x 25	63	1 5/70	ZK175G 41Z81	2CPX062761R9999 1SPE007715F9716
	20 x 1.5 - 4	6 x 25	63	1 1 5/60	ZK206G 41Z82	2CPX062762R9999 1SPE007715F9717
	23 x 1.5 - 4	7 x 25	63	1 5	ZK237G 41Z152	2CPX063165R9999 1SPE007715F9718
	26 x 1.5 - 4	8 x 25	63	1 5	ZK268G 41Z153	2CPX063166R9999 1SPE007715F9719



41Z68

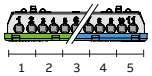
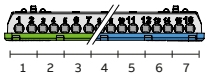
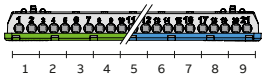
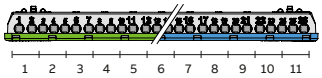
MISTRAL41 – Terminal block carriers

Description	Order code	Type code	Packaging
Carrier 8M	1SPE007715F0751	41Z67	5/280
Carrier 12M	1SPE007715F0752	41Z68	5/225
Carrier 18M	1SPE007715F0753	41Z69	5/150

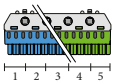
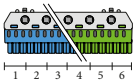
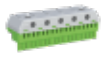
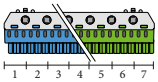
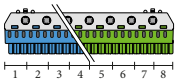
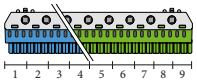
Consumer units

Terminal blocks

Terminal blocks

N/PE terminals with units	N screw-terminals	Type	Screw connection system		PE screw-terminals	Type	Screw connection system	
		ZKS6B 41Z57	3 x 6 mm²	3 x 16 mm²		ZKS6G 41Z62	3 x 6 mm²	3 x 16 mm²
		ZKS11B 41Z58	5 x 6 mm²	5 x 16 mm²		ZKS11G 41Z63	5 x 6 mm²	5 x 16 mm²
		ZKS16B 41Z59	9 x 6 mm²	7 x 16 mm²		ZKS11G 41Z63	9 x 6 mm²	7 x 16 mm²
		ZKS21B 41Z60	12 x 6 mm²	9 x 16 mm²		ZKS21G 41Z65	12 x 6 mm²	9 x 16 mm²
		ZKS26B 41Z61	15 x 6 mm²	11 x 16 mm²		ZKS26G 41Z66	15 x 6 mm²	11 x 16 mm²

Terminal blocks screwless

		ZK50B 41Z70 ZK50BT	0 x 25 mm²	5 x 1,5 - 4 mm²	-		-	-
		ZK51B 41Z71	1 x 25 mm²	5 x 1,5 - 4 mm²		ZK51G 41Z77	1 x 25 mm²	5 x 1,5 - 4 mm²
		ZK82B 41Z72	2 x 25 mm²	8 x 1,5 - 4 mm²		ZK82G 41Z78	2 x 25 mm²	8 x 1,5 - 4 mm²
		ZK113B 41Z73	3 x 25 mm²	11 x 1,5 - 4 mm²		ZK113G 41Z79	3 x 25 mm²	11 x 1,5 - 4 mm²
		ZK144B 41Z74	4 x 25 mm²	14 x 1,5 - 4 mm²		ZK144G 41Z80	4 x 25 mm²	14 x 1,5 - 4 mm²
		ZK175B 41Z75	5 x 25 mm²	17 x 1,5 - 4 mm²		ZK175G 41Z81	5 x 25 mm²	17 x 1,5 - 4 mm²
		ZK206B 41Z76	6 x 25 mm²	20 x 1,5 - 4 mm²		ZK206G 41Z82	6 x 25 mm²	20 x 1,5 - 4 mm²
		ZK237B 41Z150	7 x 25 mm²	23 x 1,5 - 4 mm²		ZK237G 41Z152	7 x 25 mm²	23 x 1,5 - 4 mm²
		ZK268B 41Z151	8 x 25 mm²	26 x 1,5 - 4 mm²		ZK268G 41Z153	8 x 25 mm²	26 x 1,5 - 4 mm²

Terminal block carriers

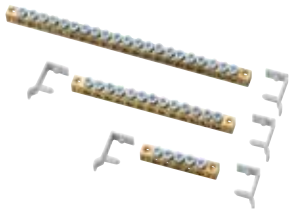
1SPE007715F0751

1SPE007715F0752

1SPE007715F0753

Consumer units

MISTRAL – Terminal bars



MISTRAL – Terminal bars

Description	Order code	Type code
Terminal bar 5 holes D.4.5 mm	M125310000	41Z28
Terminal bar 10 holes D.4.5 mm and 3 holes D.5.6 mm	M125320000	41Z29
Terminal bar 16 holes D.4.5 mm and 3 holes D.5.6 mm	M125330000	41Z30
Terminal bar 15 holes D.4.5 mm and 6 holes D.5.6 mm	M125340000	41Z31
Terminal bar 19 holes D.4.5 mm and 6 holes D.5.6 mm	M125350000	41Z32



MISTRAL – Terminal bar carriers

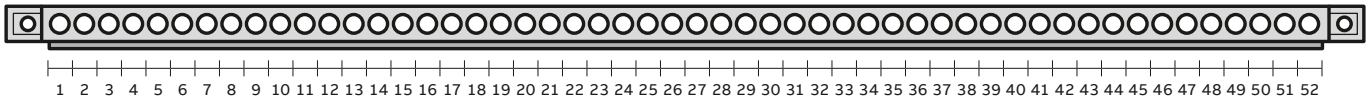
Description	Order code	Type code
Carrier for 8 moduls	1SLM004100A1953	41Z25
Carrier for 12 modules	1SLM004100A1954	41Z26
Carrier for 18 modules	1SLM004100A1955	41Z27

Consumer units

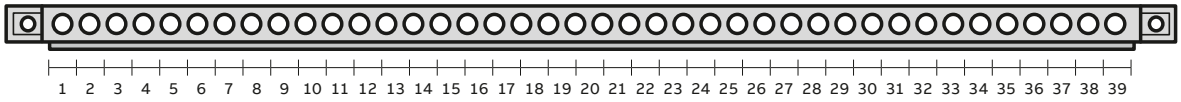
MISTRAL – Terminal bars assembly examples

Terminal bar carriers

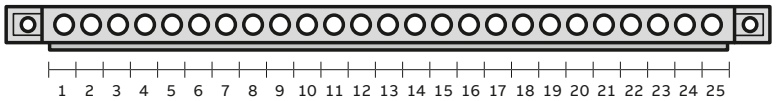
1SLM004100A1955



1SLM004100A1954

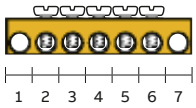


1SLM004100A1953

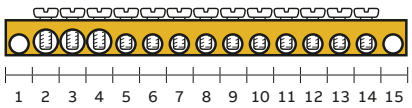


Terminal bars

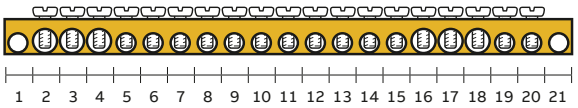
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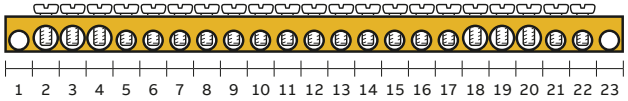
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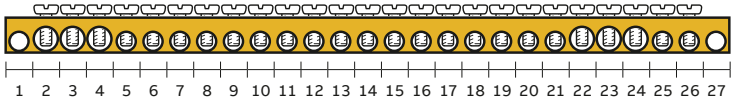
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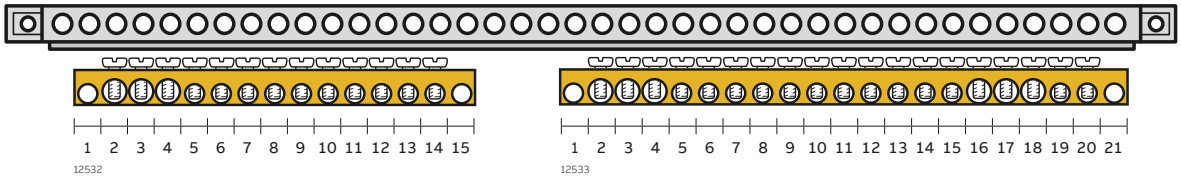


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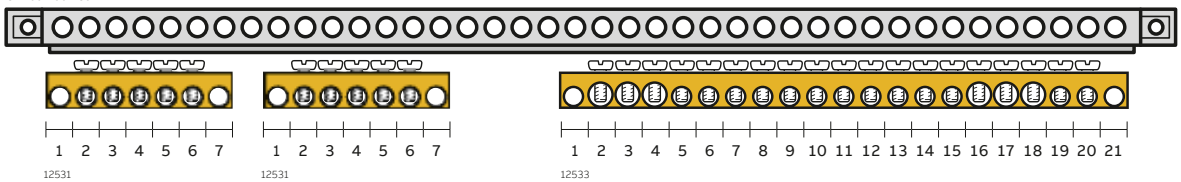


Assembly examples

1SLM004100A1954



1SLM004100A1954



MISTRAL Multimedia
Easy installation for media equipment

Suitable for all kinds of walls
Available for brick walls, flush and hollow wall mounting, with drilled metal base plates always included.



MISTRAL family feeling
MISTRAL Multimedia as enriching addition to the product family.



Neat cabling
The complete installation materials in one place.





Just snap the router on
The device carrier (rubber) makes it easy to assembly internet routers without any additional tools (snap on trap).



Easy connection to different power supplies
Triple socket, 120° swiveling and to fit all sorts of plugs.



Versatile connections
Patch-panels to host RJ45 keystone jacks.

Consumer units

Mistral41F and Mistral41W Multimedia



M41C24X210850

MISTRAL41F Multimedia – Flush mounted and hollow wall*

Description	Size	Dimensions W x H x D [mm]	Packaging	Type code	Order code
MISTRAL 41F Multimedia GWT 850 opaque door, with perforated mounting plates	2x12	320 x 435 x 107	1/5	M41C24X210850	1SLM004100A6305
	3x12	320 x 600 x 107	1/4	M41C36X310850	1SLM004100A6307
	3x18	430 x 600 x 127	1/1	M41C54X310850	1SLM004100A6309



41Z142

Hollow wall kit

Description	Size	Dimensions W x H x D [mm]	Packaging	Type code	Order code
Hollow wall fixing kit Mistral41 Multimedia			1	41Z142	1SLM004100A1961

M41C24X210850

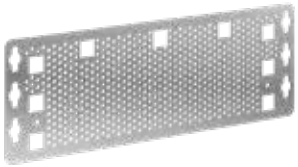
MISTRAL41W Multimedia – Wall mounted

Description	Size	Dimensions W x H x D [mm]	Packaging	Type code	Order code
MISTRAL 41W Multimedia GWT 650 opaque door, with perforated mounting plates	2x12	297 x 387 x 119	1/2	M41P24X21	1SLM004100A7105
	3x12	297 x 512 x 119	1/2	M41P36X31	1SLM004100A7107
	3x18	387 x 512 x 119	1/2	M41P54X31	1SLM004100A7109

* hollow wall kit not in scope of delivery

Consumer units

Media - accessories



M41ZM1



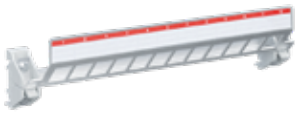
ZX287P10



ED44P10



ZX340



ZE336



ZE226



ZE225



ZX29



ZE316



ZE317



ZE318



ZE319



ZE311



ZE312



ZB120

Perforated Plate

Description	Size	Order code	Type code
Drilled metal base plate 12-module size 41F*	1/10	41Z147	1SLM004100A3914
Drilled metal base plate 18-module size 41F*	1/10	41Z148	1SLM004100A3915
Drilled metal base plate 12-module size 41W*	1/10	41Z143	1SLM004100A3902
Drilled metal base plate 18-module size 41W*	1/10	41Z144	1SLM004100A3911

Description	Size	Order code	Type code
10-screw kit for Multimedia metal plate	1	41Z139	1SLM004100A1959

Description	Size	Order code	Type code
Wire holder for Multimedia metal plate	1/5	41Z140	1SLM004100A1960

Description	Size	Order code	Type code
Device strap elastic with 2 clips for assembly, e.g. to UZM61M	1	ZX340	2CPX031422R9999

Patchpanels

Description	Size	Order code	Type code
Patchpanel 10-fold key stone (Mistral 12M)	1/15	41Z141	1SLM004100A3904
Patchpanel 16-fold key stone (Mistral 18M)	1/15	41Z123	1SLM004100A1957

Sockets and supports

Description	Size	Order code	Type code
Triple socket 230 V AC voltage, 120° swiveling with EURO insert to be snapped on terminal carrier or DIN rail	1	41Z122	1SLM004100A1956

Description	Size	Order code	Type code
Dual socket 230 V AC voltage for assembling to mounting support ZX29 with EURO insert	1	ZE225	2CPX061177R9999

Description	Size	Order code	Type code
Mounting suport for dual socket For clamping on to terminal carrier or for assembling to the perforated sheet steel plate	1	ZX29	2CPX061178R9999

key stone jacks for patch panels

Description	Size	Order code	Type code
COAX module - F/F connector	1	ZE316	2CPX039246R9999
COAX module - IEC connector	1	ZE317	2CPX039247R9999
COAX module - IEC plug	1	ZE318	2CPX039248R9999
OpDAT module - LC guide sleeve, ceramics	1	ZE319	2CPX039249R9999

RJ45 connector

Description	Size	Order code	Type code
plastic	1	ZE311	2CPX038612R9999
metal	1	ZE312	2CPX038613R9999

Insulating tube - For communication line

Description	Size	Order code	Type code
50 mm	1	ZB120	2CPX071111R9999
150 mm	1	ZB122	2CPX071112R9999

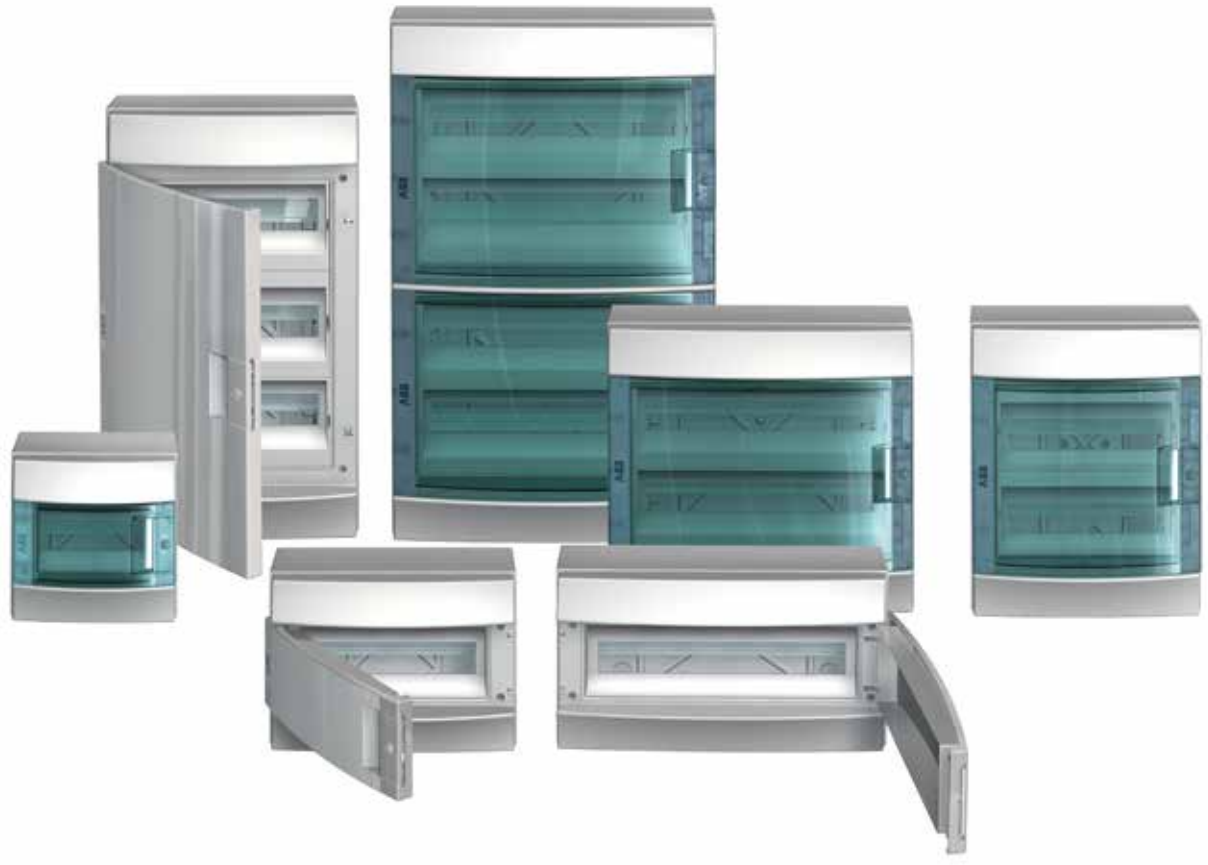
Notes

MISTRAL65

A versatile range suitable for every application

Efficiency, safety, integration: the new MISTRAL65 series rests on the strengths which have consolidated ABB's image over the years for its expertise and reliability in the area of products for protection, control, monitoring, measurement, safety and energy efficiency. These innovative IP65 rated consumer units complete ABB's wide product range for the residential, commercial and industrial sector.

The range includes solutions with transparent or opaque doors which open up to 180°, and a choice of between 4 and 72 modules, meeting the most recent regulatory requirements and ensuring an enormous variety of application types.





Designed for harsh environments
The MISTRAL65 consumer units come with IP65 protection degree, providing a dust-tight and resistant to jetting water resistance.

Mechanical strength of the MISTRAL65 consumer units are IK09 (10 joule) and IK08 for the precut parts.

Eco-compatible materials
Innovating today does not just mean looking for functional and technologically advanced solutions. For ABB, being innovative means embracing a longer-term perspective by using eco-compatible materials for our products which respect the environment even at the end of their life cycle. For this reason, 100% recyclable, in case of MISTRAL65 even halogen-free, thermoplastics have been used for the consumer units.

Their environmental compatibility has been assessed using the Life Cycle Assessment (LCA) method, an objective tool for analysing energy and environmental impact which analyses the energy and materials used and the emissions released during production.

MISTRAL65H:
Consumer units and switchboards for smarter outdoor installations



Resistance to salt, dust or UV rays is an essential feature in outdoor applications. Saline environments, chemical industries, sandy/dusty or PV applications require specifically robust products to guarantee reliable distribution of energy to where it is required.



IP65 IK10

Made for harsh environments and outdoor installations
The MISTRAL65H consumer units and switchboards are self-extinguishing and resistant to abnormal heat and fire up to 750°C (GWT). They provide shock resistance IK10 (20 Joules) and IP65 degree of protection.

Available in 4 sizes and with a wide range of accessories the MISTRAL65H enclosures have been specifically designed for heavy duty environments.





Certified robustness
The new MISTRAL65H consumer units and switchboards are perfectly suitable for heavy duty environments and outdoor installations as they have been tested and certified for:

- Dust/sand resistance (factory internal tested)
- Saline environments (according to IEC 60068-2-52)
- Weathering (according to IEC 600068-2-5)
- Permanent sun exposure (IEC 600068-2-5)
- Self-extinguishing and resistant to abnormal heat and fire up to 750°C (GWT)
- Shock resistance: IK10 (20 Joules)
- Degree of protection: IP65
- Opaque and transparent doors
- Common accessories with the MISTRAL65 standard range



MISTRAL65 / 65H

Fast and easy installation of consumer units

The project design also aimed to optimise cabling, assembly and installation times of the consumer units. Everything has been designed to make the installer's job quicker and easier, allowing them to implement functional and tidy consumer units.



MISTRAL65 / 65H
Fast and easy installation of consumer units

In the multi-row versions, the centre distance of the DIN rails can be varied from 150 mm to 125 mm, further increasing the versatility of the product and using the same standard accessories. The frame is extractable for quick and easy bench cabling.

The ample internal space makes the cables more accessible, facilitating cabling and giving the possibility to anchor the cable-ties to special eyeholes on the frame.

The consumer units are designed to house optional dedicated terminal blocks in two different color schemes to allow quick and tidy cabling, and making separate power supplies easily recognisable, when used.

The range is completely coordinated with ABB MCBs and MCCBs, all of which can be easily installed simply by moving the rail provided for their housing.



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01



—
02



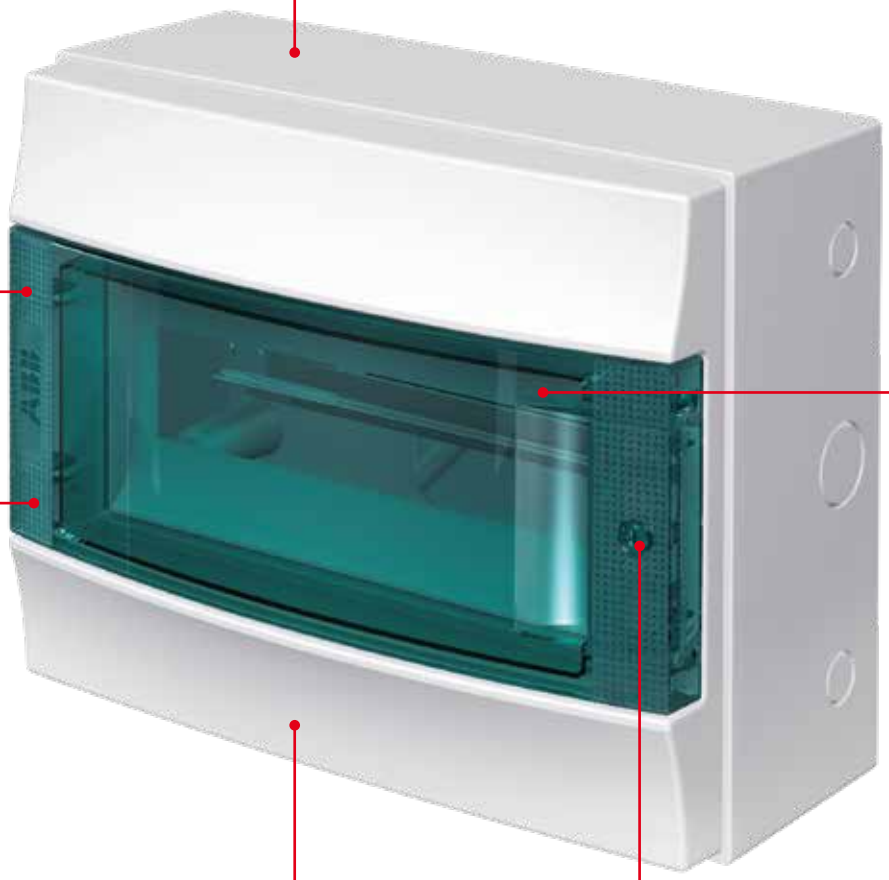
—
03

—
01 **Variable distance of the DIN rails,** 125 mm and 150 mm.
—
02 **Withdrawable frame, adjustable DIN rail depth** to ease the installation of any DIN device.
—
03 **Fast and easy installation** using wall fixing brackets.

MISTRAL65 / 65H

Design and simplicity “all in one”.

The refined design is marked by some particular characteristics, for example the perfect symmetry, which allows either the whole consumer unit or just the front panel to be rotated, easily changing the door opening side.



The minimalistic simplicity of the new design combines technological reliability with the most innovative aesthetic trends

The 180° door opening facilitates total accessibility to the interior of the consumer unit

The decorative texture of the door underlines the attention to detail and the quality of the finish

Door available in two versions: petrol blue and opaque.

The symmetrical design allows opening of the reversible door either from the left or from the right.

The door has an ergonomic handle with snap-on closing or a lock (optional)

MISTRAL65 / 65H

Design and simplicity “all in one”.

MISTRAL65 is equipped with smooth surfaces on top and bottom sides. Knockouts are available on both sides of the enclosure.

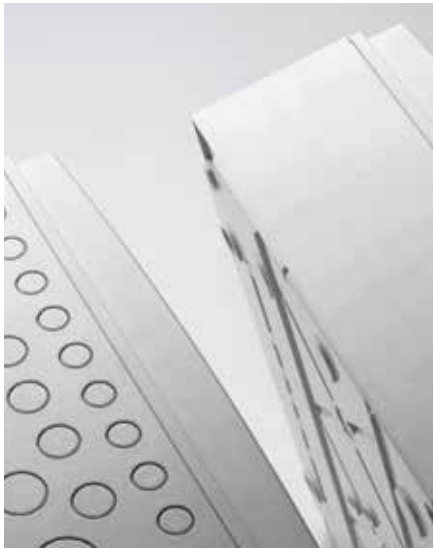
Interior slots allow the consumer unit to be fixed to the wall in points which are not visible from the outside, thus contributing to an aesthetically clean installation. Special snap-in closure plugs guarantee protection class II (double insulated).

The possibility to add an additional module by removing two pre-trimmed elements is an extremely useful solution which allows additions to be managed easily and tidily when unforeseen installation requirements are called for.





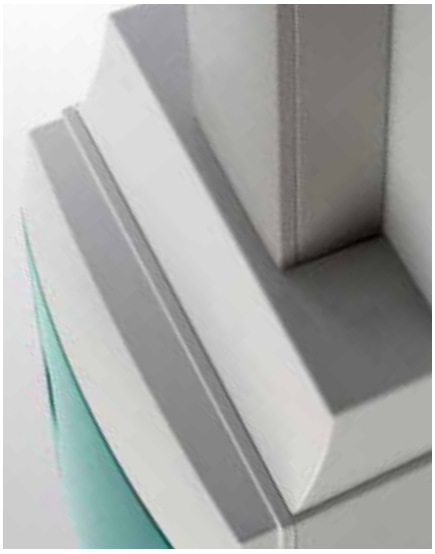




Mistral65H is equipped on one side with knockouts for cable glands, the other side with a smooth surface.



The standard door with ergonomic handle and snap-on closure can be equipped with a lock and key on request, ensuring only authorised persons have access and avoiding tampering or incorrect operations.



An accessory for trunking entry can be positioned at the top or bottom of the consumer unit, connecting and protecting the conductor bundles. A series of internal knockouts allows it to house any type of trunking.

MISTRAL65 / 65H
For simplicity and effectiveness



Practical rear brackets provide practical and stable wall fastening

Every front panel is supplied with captive screws, giving practical and safety advantages

The side knockouts offer additional possibilities for the cables' path

The dual gasket on the front panel ensures an improved seal

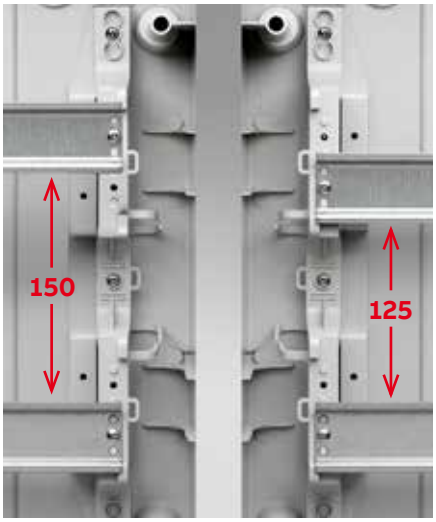
All accessories and the slightest details have been designed and developed in order to maintain double insulation properties at all times

MISTRAL65 / 65H
For simplicity and effectiveness

The extractable frame simplifies and speeds up bench cabling operations. The slotted holes in the frame allow it to be quickly fixed inside the enclosure.

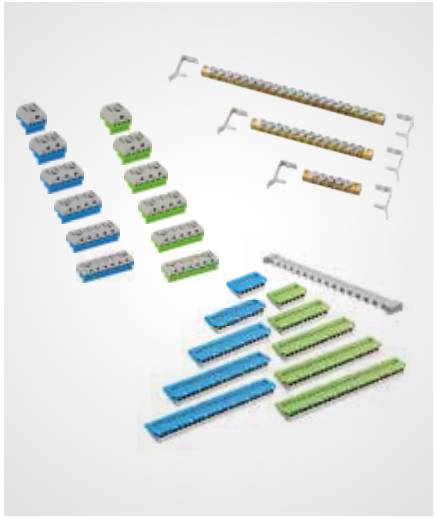


In order to create space at the top or bottom of the consumer unit, the centre distance of the DIN rails can be modified from the standard distance of 150 mm to 125 mm. The closure panels, which are completely reversible, can be unhooked, reversed and reinstalled with a simple click.



Spaces have been created inside the consumer units to make cabling even easier, with cable clips and holes for fastening the conductors to the frame with simple cable-ties.





3 different terminal systems available
The MISTRAL range of consumer units is supplied with a wide range of terminal systems: Terminal bars with screws and the two versions of terminal blocks offering screw or screwless couplings.



The consumer units can be installed side by side, with cable gland accessories protecting the conductors' path between adjacent units.



The accessories include blind panels and base plates allowing installation of other types of devices aside from modular DIN rail products such as contactors, manual motor starters or devices on the front of the panel.

MISTRAL65 / 65H
Endless installation possibilities

Our product development was inspired by the objective of allowing a wide range of products and solutions with different functions and dimensions to be installed in a single IP65 consumer unit, thus meeting the widest range of needs even in small commercial or industrial applications.

MCBs, MCCBs and devices installed in the front of the panel in an integrated, rational and functionally appropriate position.

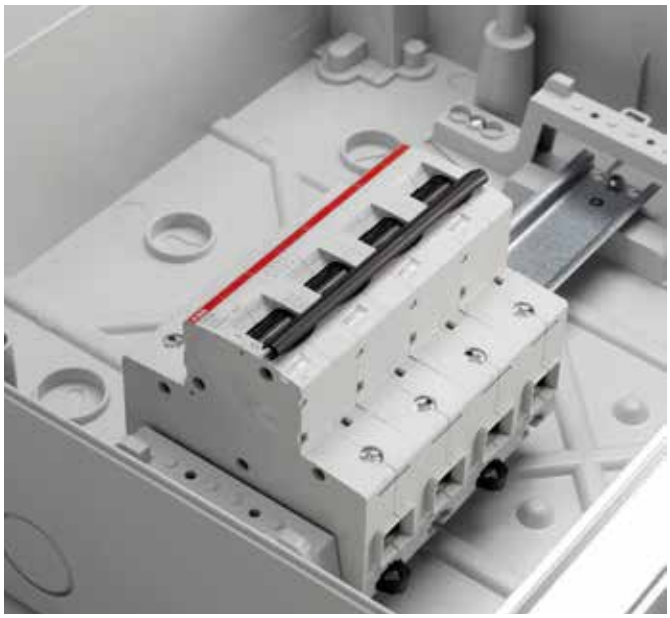


MISTRAL65 / 65H
Endless installation possibilities

The frame allows for two different DIN rail positions. This allows products with different depths to be installed, for example MCCBs which, thanks to this solution, are perfectly aligned with other devices in the panel

Among these components with greater depth dimensions which can benefit from this flexibility of the frame, we must remember high-performance MCBs with greater than standard depth.









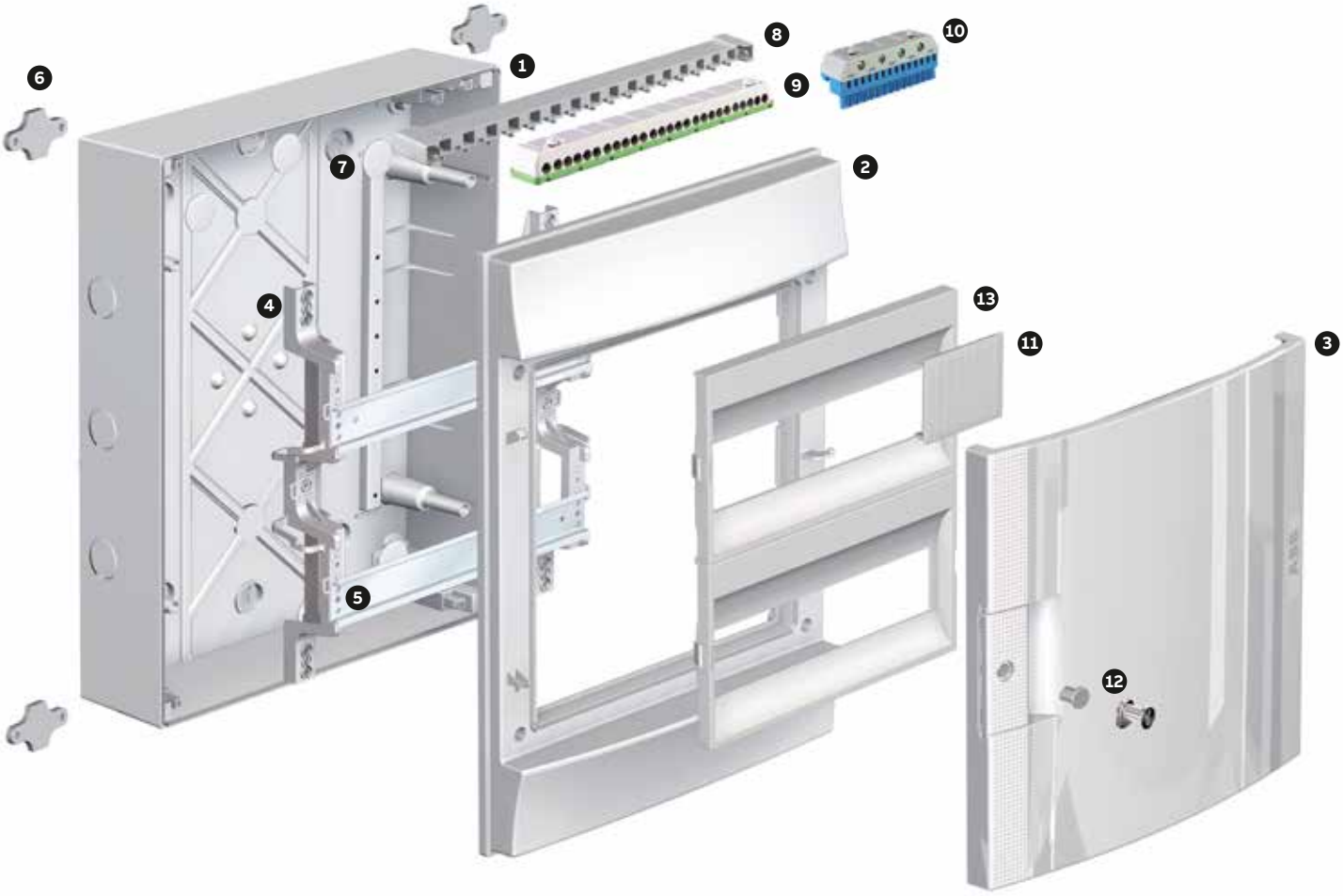
The first depth level allows standard products to be housed; these include most modular products currently available on the market.

Among the accessories, the availability of blank panels and base plates allows non-modular equipment to be installed on the front of the consumer unit, such as control buttons and indicator lights.

MISTRAL65 / 65H
All details at a glance

The simplicity of the consumer units makes adapting them to various system requirements easy.

Optional terminal blocks which can be installed in the top or bottom of the consumer unit allow the cabling to be performed in a tidy manner and their different colors facilitate recognition of any separate circuits.

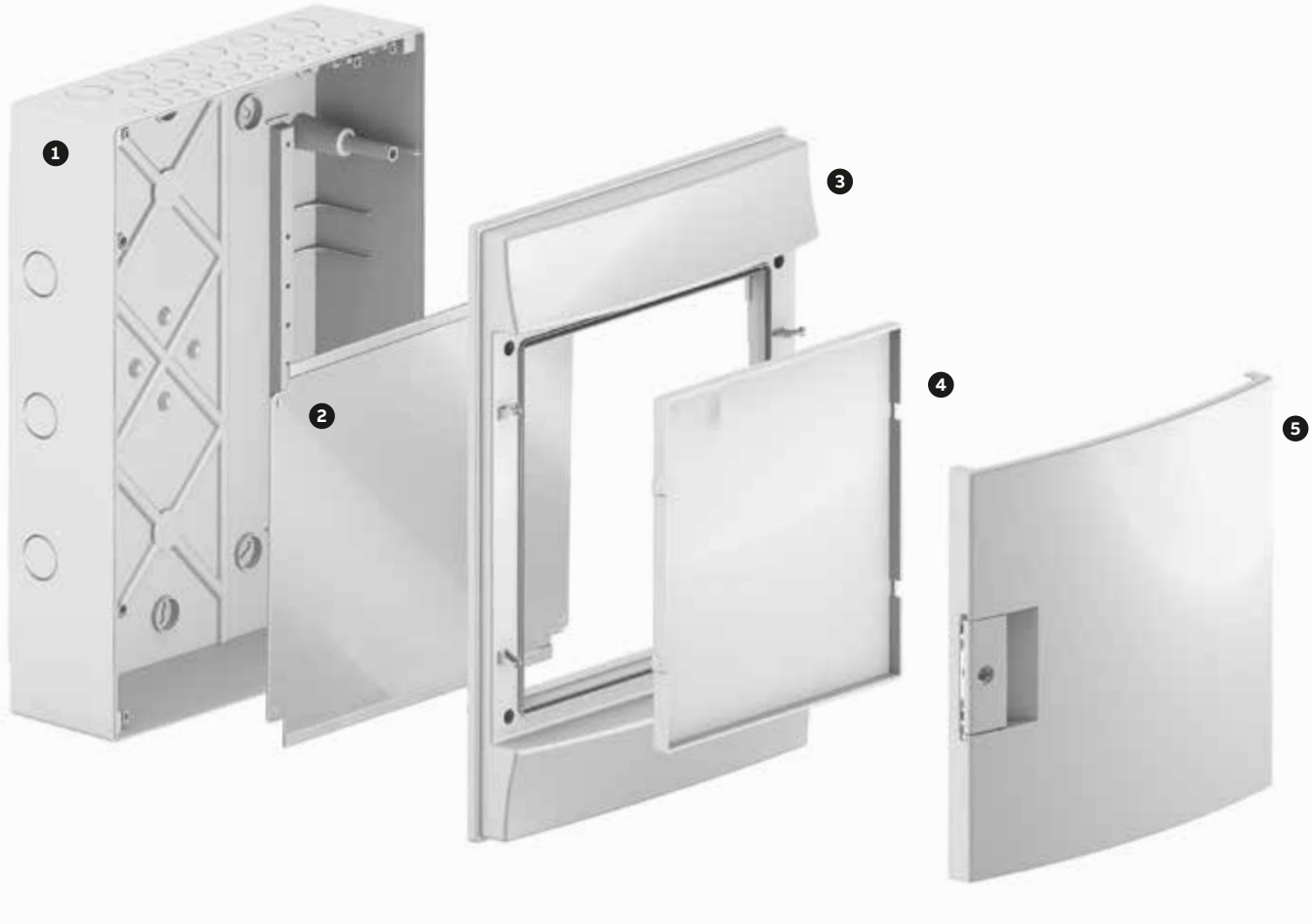


1. Box for wall mounting
2. Reversible front panel
3. RAL 7035 opaque door
4. Fixed support for DIN rail
5. DIN rail
6. Wall fastening brackets
7. Plugs, protection class II
8. Terminal block carriers
9. Terminal blocks with screw coupling
10. Terminal blocks with screwless coupling
11. Module cover
12. Finish or closure elements (lock and key optional)
13. Reversible panels

MISTRAL65H Switchboard
All details at a glance

The switchboards consist of an empty box and a door to integrate all your interior fittings. A full closing panel is available (snap mounting), which works as an inner door in a typical automation application.

Specific metal plates designed to host Tmax XT MCCBs are available for all the enclosure sizes.



1. **Box for wall mounting**
2. **Metal plate**
3. **Reversible front panel**
4. **Inner door**
5. **RAL 7035 opaque door**

MISTRAL65H Switchboard
Harsh environment series



Smooth surface on one side, knock-outs for cable entries on the other

Every front panel is supplied with captive screws, giving practical and safety advantages

The perfect symmetry of the front allows the opening to be completely reversed

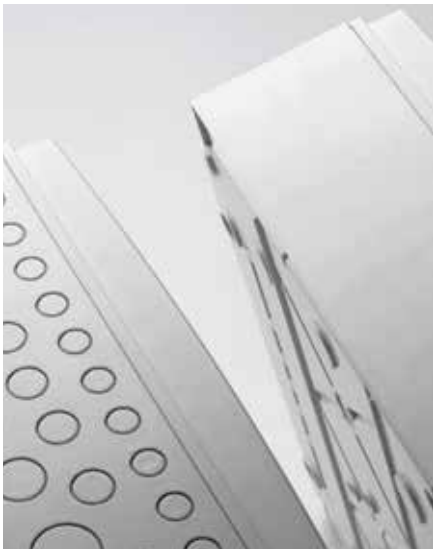
MISTRAL65H switchboards have been designed for heavy duty applications

MISTRAL65H Switchboard
Harsh environment series

Resistance to salt, dust and UV rays.



MISTRAL65H Switchboard is equipped on one side with knockouts for cable glands, the other side with a smooth surface.



Tmax XT kits are available to install XT1 and XT2 breakers.





MISTRAL65H switchboards offer a wide, safe space to integrate all your interior fittings.



Wide range of accessories.



Inner doors allow integration of signaling devices and push buttons for automation applications.

Consumer units

MISTRAL65 – Ordering details wall-mounted IP65




4 modules




8 modules




12 modules




18 modules




24 modules




36 modules

MISTRAL65 – Order codes 650

Description	N° of modules [18 mm]	GWT	Dimensions WxHxD [mm]	Order code	Type code	Packaging
Consumer units MISTRAL65 wall - 1 Row						
Opaque door 4M	4	650	152x202x117	1SL1100A00	65P04X11	1/24
Transparent door 4M	4	650	152x202x117	1SL1200A00	65P04X12	1/24
Opaque door 8M	8	650	232x250x154	1SL1101A00	65P08X11	1/11
Transparent door 8M	8	650	232x250x154	1SL1201A00	65P08X12	1/11
Opaque door 12M	12	650	320x250x155	1SL1102A00	65P12X11	1/7
Transparent door 12M	12	650	320x250x155	1SL1202A00	65P12X12	1/7
Opaque door 18M	18	650	430x250x155	1SL1103A00	65P18X11	1/4
Transparent door 18M	18	650	430x250x155	1SL1203A00	65P18X12	1/4
Consumer units MISTRAL65 wall - 2 Rows						
Opaque door 24M	24	650	320x435x155	1SL1104A00	65P12X21	1/4
Transparent door 24M	24	650	320x435x155	1SL1204A00	65P12X22	1/4
Opaque door 36M2F	36	650	430x435x155	1SL1105A00	65P18X21	1/2
Transparent door 36M2F	36	650	430x435x155	1SL1205A00	65P18X22	1/2

Consumer units

MISTRAL65 – Ordering details wall-mounted IP65



36 modules



54 modules



48 modules



72 modules

MISTRAL65 – Order codes 650

Description	N° of modules [18 mm]	GWT	Dimensions WxHxD [mm]	Order code	Type code	Packaging
Consumer units MISTRAL65 wall - 3 Rows						
Opaque door 36M3F	36	650	320x600x155	1SL1106A00	65P12X31	1/3
Transparent door 36M3F	36	650	320x600x155	1SL1206A00	65P12X32	1/3
Opaque door 54M	54	650	430x600x155	1SL1108A00	65P18X31	1/1
Transparent door 54M	54	650	430x600x155	1SL1208A00	65P18X32	1/1
Consumer units MISTRAL65 wall - 4 Rows						
Opaque door 48M	48	650	320x735x155	1SL1107A00	65P12X41	1/1
Transparent door 48M	48	650	320x735x155	1SL1207A00	65P12X42	1/1
Opaque door 72M	72	650	430x735x155	1SL1109A00	65P18X41	1/1
Transparent door 72M	72	650	430x735x155	1SL1209A00	65P18X42	1/1

All units on this page will be delivered without connection terminals

Consumer units

MISTRAL65H – Ordering details wall-mounted IP65




4 modules




8 modules




12 modules




18 modules




24 modules




36 modules

MISTRAL65H – Order codes 750

Description	N° of modules [18 mm]	GWT	Dimensions WxHxD [mm]	Order code	Type code	Packaging
Consumer units MISTRAL65 wall - 1 Row						
Opaque door 4M	4	750	152x202x117	1SLM006500A2110	H65P04X110750	1/24
Transparent door 4M	4	750	152x202x117	1SLM006500A2210	H65P04X110750	1/24
Opaque door 8M	8	750	232x250x154	1SLM006500A2111	H65P08X110750	1/11
Transparent door 8M	8	750	232x250x154	1SLM006500A2211	H65P08X120750	1/11
Opaque door 12M	12	750	320x250x155	1SLM006500A2112	H65P12X110750	1/7
Transparent door 12M	12	750	320x250x155	1SLM006500A2212	H65P12X120750	1/7
Opaque door 18M	18	750	430x250x155	1SLM006500A2113	H65P18X110750	1/4
Transparent door 18M	18	750	430x250x155	1SLM006500A2213	H65P18X120750	1/4
Consumer units MISTRAL65 wall - 2 Rows						
Opaque door 24M	24	750	320x435x155	1SLM006500A2114	H65P12X210750	1/4
Transparent door 24M	24	750	320x435x155	1SLM006500A2214	H65P12X220750	1/4
Opaque door 36M2F	36	750	430x435x155	1SLM006500A2115	H65P18X210750	1/2
Transparent door 36M2F	36	750	430x435x155	1SLM006500A2215	H65P18X220750	1/2

Consumer units

MISTRAL65H – Ordering details wall-mounted IP65



36 modules



54 modules



48 modules



72 modules

MISTRAL65H – Order codes 750

Description	N° of modules [18 mm]	GWT	Dimensions WxHxD [mm]	Order code	Type code	Packaging
Consumer units MISTRAL65 wall - 3 Rows						
Opaque door 36M3F	36	750	320x600x155	1SLM006500A2116	H65P12X310750	1/3
Transparent door 36M3F	36	750	320x600x155	1SLM006500A2216	H65P12X320750	1/3
Opaque door 54M	54	750	430x600x155	1SLM006500A2118	H65P18X310750	1/1
Transparent door 54M	54	750	430x600x155	1SLM006500A2218	H65P18X320750	1/1
Consumer units MISTRAL65 wall - 4 Rows						
Opaque door 48M	48	750	320x735x155	1SLM006500A2117	H65P12X410750	1/1
Transparent door 48M	48	750	320x735x155	1SLM006500A2217	H65P12X420750	1/1
Opaque door 72M	72	750	430x735x155	1SLM006500A2119	H65P18X410750	1/1
Transparent door 72M	72	750	430x735x155	1SLM006500A2219	H65P18X420750	1/1

Consumer units

MISTRAL65 – Ordering details with terminals IP65



8 modules

MISTRAL65 – Order codes

Description	N° of modules [18 mm]	GWT	Dimensions W x H x D [mm]	Order code	Type code	Packaging
Consumer units MISTRAL65 wall - 8 modules						
Opaque door 8M 12SM	8	650	232x250x154	1SLM006501A1101	65P08X11A	1/11
Transparent door 8M 12SM	8	650	232x250x154	1SLM006501A1201	65P08X12A	1/11
N 3x6mm² + 3x16mm² PE 3x6mm² + 3x16mm²						



12 modules

Consumer units MISTRAL65 wall - 12 modules						
Opaque door 12M 22SM	12	650	320x250x155	1SLM006501A1102	65P12X11A	1/7
Transparent door 12M 22SM	12	650	320x250x155	1SLM006501A1202	65P12X12A	1/7
N 5x6mm² + 6x16mm² PE 5x6mm² + 6x16mm²						



18 modules

Consumer units MISTRAL65 wall - 18 modules						
Opaque door 18M 12SM	18	650	430x250x155	1SLM006501A1103	65P18X11Z	1/4
Transparent door 18M 12SM	18	650	430x250x155	1SLM006501A1203	65P18X12Z	1/4
N 3x6mm² + 3x16mm² PE 3x6mm² + 3x16mm²						



18 modules

Consumer units MISTRAL65 wall - 18 modules						
Opaque door 18M 32SM	18	650	430x250x155	1SLM006502A1103	65P18X11A	1/4
Transparent door 18M 32SM	18	650	430x250x155	1SLM006502A1203	65P18X12A	1/4
N 9x6mm² + 7x16mm² PE 9x6mm² + 7x16mm²						



24 modules

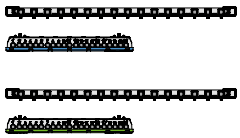
Consumer units MISTRAL65 wall - 24 modules						
Opaque door 24M 24SM	24	650	320x435x155	1SLM006501A1104	65P12X21Z	1/4
Transparent door 24M 24SM	24	650	320x435x155	1SLM006501A1204	65P12X22Z	1/4
N 6x6mm² + 5x16mm² PE 6x6mm² + 5x16mm²						

Consumer units

MISTRAL65 – Ordering details with terminals IP65



24 modules



MISTRAL65 – Order codes

Description	N° of modules [18 mm]	GWT	Dimensions W x H x D [mm]	Order code	Type code	Packaging
Consumer units MISTRAL65 wall - 24 modules						
Opaque door 24M 42SM	24	650	320x435x155	1SLM006502A1104	65P12X21A	1/4
Transparent door 24M 42SM	24	650	320x435x155	1SLM006502A1204	65P12X22A	1/4
N 6x6mm² + 9x16mm² PE 6x6mm² + 9x16mm²						



36 modules



Consumer units MISTRAL65 wall - 36 modules						
Opaque door 36M2F 52SM	36	650	430x435x155	1SLM006501A1105	65P18X21A	1/2
Transparent door 36M2F 52SM	36	650	430x435x155	1SLM006501A1205	65P18X22A	1/2
N 15x6mm² + 11x16mm² PE 15x6mm² + 11x16mm²						



36 modules





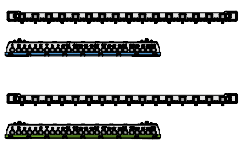
Consumer units MISTRAL65 wall - 36 modules						
Opaque door 36M3F 42SM	36	650	320x600x155	1SLM006501A1106	65P12X31A	1/3
Transparent door 36M3F 42SM	36	650	320x600x155	1SLM006501A1206	65P12X32A	1/3
N 15x6mm² + 11x16mm² PE 15x6mm² + 11x16mm²						

Consumer units

MISTRAL65 – Ordering details with terminals IP65



48 modules



MISTRAL65 – Order codes

Description	N° of modules [18 mm]	GWT	Dimensions W x H x D [mm]	Order code	Type code	Packaging
Consumer units MISTRAL65 wall - 48 modules						
Opaque door 48M 52SM	48	650	320x735x155	1SLM006501A1107	65P12X41A	1/1
Transparent door 48M 52SM	48	650	320x735x155	1SLM006501A1207	65P12X42A	1/1
N 15x6mm² + 11x16mm² PE 15x6mm² + 11x16mm²						



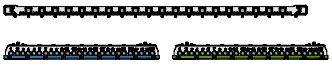
54 modules



Consumer units MISTRAL65 wall - 54 modules						
Opaque door 54M 52SM	54	650	430x600x155	1SLM006501A1108	65P18X31A	1/1
Transparent door 54M 52SM	54	650	430x600x155	1SLM006501A1208	65P18X32A	1/1
N 15x6mm² + 11x16mm² PE 15x6mm² + 11x16mm²						



72 modules



Consumer units MISTRAL65 wall - 72 modules						
Opaque door 72M 52SM	72	650	430x735x155	1SLM006501A1109	65P18X41A	1/1
Transparent door 72M 52SM	72	650	430x735x155	1SLM006501A1209	65P18X42A	1/1
N 15x6mm² + 11x16mm² PE 15x6mm² + 11x16mm²						

Consumer units

MISTRAL65H Switchboard – Ordering details wall-mounted IP65



MISTRAL65H switchboard*

Description	Dimensions WxHxD [mm]	Order code	Type code	Packaging
2x12 module size opaque door	320 x 435 x 155	1SLM006500A3114	S65P12X210750	1/4
3x12 module size opaque door	320 x 600 x 155	1SLM006500A3116	S65P12X310750	1/3
2x18 module size opaque door	430 x 435 x 155	1SLM006500A3115	S65P18X210750	1/2
3x18 module size opaque door	430 x 600 x 155	1SLM006500A3118	S65P18X310750	1/1

* For the switchboards, modules indicate size

All units on this page will be delivered without connection terminals

Consumer units

MISTRAL65 / 65H – Ordering details accessories



Opaque door



Transparent door



Inner doors



Base plates



Kits for Tmax XT

MISTRAL65 / 65H / 65H Switchboards – Common accessories

Description	N° of modules [18 mm]	Order code	Type code	Packaging
Opaque door				
Opaque door 4M	4	1SL1900A00	1SLM006500A1900	1/15
Opaque door 8M	8	1SL1902A00	1SLM006500A1902	1/20
Opaque door 12M	12	1SL1904A00	1SLM006500A1904	1/10
Opaque door 18M	18	1SL1906A00	1SLM006500A1906	1/20
Opaque door 24M / 48M	24/48	1SL1908A00	1SLM006500A1908	1/6
Opaque door 36M (3 rows)	36	1SL1910A00	1SLM006500A1910	1/10
Opaque door 36M (2 rows) / 72M	36/72	1SL1912A00	1SLM006500A1912	1/14
Opaque door 54M	54	1SL1914A00	1SLM006500A1914	1/8
Transparent door				
Transparent door 4M	4	1SL1901A00	1SLM006500A1901	1/15
Transparent door 8M	8	1SL1903A00	1SLM006500A1903	1/20
Transparent door 12M	12	1SL1905A00	1SLM006500A1905	1/10
Transparent door 18M	18	1SL1907A00	1SLM006500A1907	1/20
Transparent door 24M / 48M	24/48	1SL1909A00	1SLM006500A1909	1/6
Transparent door 36M (3 rows)	36	1SL1911A00	1SLM006500A1911	1/10
Transparent door 36M (2 rows) / 72M	36/72	1SL1913A00	1SLM006500A1913	1/14
Transparent door 54M	54	1SL1915A00	1SLM006500A1915	1/8
Inner doors				
Inner door for 2x12 size MISTRAL65H switchboard	2x12	1SLM006500A1961	41Z135	1
Inner door for 2x18 size MISTRAL65H switchboard	2x18	1SLM006500A1962	41Z136	1
Inner door for 3x12 size MISTRAL65H switchboard	3x12	1SLM006500A1963	41Z137	1
Inner door for 3x18 size MISTRAL65H switchboard	3x18	1SLM006500A1964	41Z138	1
Base plates				
Metal base plate 12M	12	1SL1920A00	1SLM006500A1920	1/12
Metal base plate 2x12M	2x12	1SL1921A00	1SLM006500A1921	1/4
Metal base plate 18M	18	1SL1922A00	1SLM006500A1922	1/8
Metal base plate 2x18M	2x18	1SL1923A00	1SLM006500A1923	1/4
Metal base plate 3x12M	3x12	1SLM006500A1951	41Z125	1/5
Metal base plate 3x18M	3x18	1SLM006500A1952	41Z126	1/5
Plastic base plate 2x12M	2x12	1SLM006500A1953	41Z127	1/5
Plastic base plate 2x18M	2x18	1SLM006500A1954	41Z128	1/5
Plastic base plate 3x12M	3x12	1SLM006500A1955	41Z129	1/5
Plastic base plate 3x18M	3x18	1SLM006500A1956	41Z130	1/5
Kits for Tmax XT				
Kit for Tmax XT 3x12 size MISTRAL65H switchboard	3x12	1SLM006500A1959	41Z133	1
Kit for Tmax XT 3x18 size MISTRAL65H switchboard	3x18	1SLM006500A1960	41Z134	1
Kit for Tmax XT 2x12 size MISTRAL65H switchboard	2x12	1SLM006500A1969	41Z131	1
Kit for Tmax XT 2x18 size MISTRAL65H switchboard	2x18	1SLM006500A1970	41Z132	1

Consumer units

MISTRAL65 / 65H – Ordering details accessories



Blind panel



Module cover



Lock



Wall fixing brackets



Cable gland



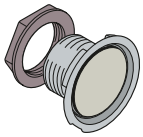
Kits for Tmax XT



Adapter for trunking



Junction unit



Base socket

MISTRAL65 / 65H / 65H Switchboards – Other accessories

Description	N° of modules [18 mm]	Order code	Type code	Packaging
Blind panel				
Central blind panel 12M MISTRAL65 *	12	1SL1945A00	1SLM006500A1945	1/15
Blind panel 12M MISTRAL65	12	1SL1946A00	1SLM006500A1946	1/20
Central blind panel 18M MISTRAL65 **	18	1SL1947A00	1SLM006500A1947	1/30
Blind panel 18M MISTRAL65	18	1SL1948A00	1SLM006500A1948	1/30
slotted blind panel				
central blind panel slotted 12M	12	41Z150	1SLM006500A1965	1/15
top/bottom blind panel slotted 12M	12	41Z151	1SLM006500A1966	1/20
central blind panel slotted 18M	18	41Z152	1SLM006500A1967	1/30
top/bottom blind panel slotted 18M	18	41Z153	1SLM006500A1968	1/30
Other accessories				
Wall fixing brackets (4 pcs)		1SL1927A00	1SLM006500A1927	1/30
Module cover 12M MISTRAL65 / 65H	12	1SL1929A00	1SLM006500A1929	5/180
Lock with key		1SL1931A00	1SLM006500A1931	1/10
Cable gland Ø 16		1SL1935A00	1SLM006500A1935	10/100
Cable gland Ø 20		1SL1936A00	1SLM006500A1936	10/100
Cable gland Ø 25		1SL1937A00	1SLM006500A1937	10/100
Cable gland Ø 32		1SL1938A00	1SLM006500A1938	5/50
Kits for Tmax XT				
Kits for Tmax XT 3x12 size MISTRAL65H switchboard	3x12	41Z133	1SLM006500A1959	1
Kits for Tmax XT 3x18 size MISTRAL65H switchboard	3x18	41Z134	1SLM006500A1960	1
Kits for Tmax XT 2x12 size MISTRAL65H switchboard	2x12	41Z131	1SLM006500A1969	1
Kits for Tmax XT 2x18 size MISTRAL65H switchboard	3x18	41Z132	1SLM006500A1970	1
Adapter for trunking		1SL1942A00	1SLM006500A1942	1/10
Junction unit Ø 28,5		1SL1949A00	1SLM006500A1949	10/400
Anti-condensation kit		1SL0351A00		1/6

Anti-condensation kit

- Kit in special material to prevent condensation from forming inside the switchboard: it include GORE™ MEMBRANE VENTING
- Impermeable to water (pressure): 0.6 bar / 60 sec.
- Air flow: 400 ml/min. (dp = 70 mbar)
- the number of kits to be installed depend on the number and type of devices installed inside the switchboard.
- IP66

* MISTRAL65 panels 3 rows – 36 modules (3 x 12)
** MISTRAL65 panels 3 rows – 54 modules (3 x 18)

Consumer units

Terminal blocks



ZKS11B



ZKS11G

SCREW – Terminal blocks

Article	Number terminals 1.5 x 6 mm²	Number terminals 1.5 x 16 mm²	maximum rated current [A]	Packaging pack/bulk	Type	Ord. no.
N screw-terminals For terminal carriers	3 x 6	3 x 16	100	1 5/270	ZKS6B 41Z57	2CPX063167R9999 1SPE007715F0731
	6 x 6	5 x 16	100	1 5/150	ZKS11B 41Z58	2CPX063168R9999 1SPE007715F0732
	9 x 6	7 x 16	100	1 5/120	ZKS16B 41Z59	2CPX063169R9999 1SPE007715F0733
	12 x 6	9 x 16	100	1 5/90	ZKS21B 41Z60	2CPX063170R9999 1SPE007715F0734
	15 x 6	11 x 16	100	1 5/90	ZKS26B 41Z61	2CPX063171R9999 1SPE007715F0735
PE screw-terminals For terminal carriers	3 x 6	3 x 16	100	1 5/270	ZKS6G 41Z62	2CPX063172R9999 1SPE007715F0741
	6 x 6	5 x 16	100	1 5/150	ZKS11G 41Z63	2CPX063173R9999 1SPE007715F0742
	9 x 6	7 x 16	100	1 5/120	ZKS16G 41Z64	2CPX063174R9999 1SPE007715F0743
	12 x 6	9 x 16	100	1 5/90	ZKS21G 41Z65	2CPX063175R9999 1SPE007715F0744
	15 x 6	11 x 16	100	1 5/90	ZKS26G 41Z66	2CPX063176R9999 1SPE007715F0745



ZK51B



ZK51G

QUICK PLUG – Terminal blocks screwless

N quick-plug terminals For terminal carriers	5 x 1.5 - 4	0 x 25	63	1 5/280	ZK50B 41Z70	2CPX062750R9999 1SPE007715F9701
	5 x 1.5 - 4	1 x 25	63	1 5/180	ZK51B 41Z71	2CPX062751R9999 1SPE007715F9702
	8 x 1.5 - 4	2 x 25	63	1 5/150	ZK82B 41Z72	2CPX062752R9999 1SPE007715F9703
	11 x 1.5 - 4	3 x 25	63	1 5/100	ZK113B 41Z73	2CPX062753R9999 1SPE007715F9704
	14 x 1.5 - 4	4 x 25	63	1 5/90	ZK144B 41Z74	2CPX062754R9999 1SPE007715F9705
	14 x 1.5 - 4	5 x 25	63	1 5/70	ZK175B 41Z75	2CPX062755R9999 1SPE007715F9706
	20 x 1.5 - 4	6 x 25	63	1 5/60	ZK206B 41Z76	2CPX062756R9999 1SPE007715F9707
	23 x 1.5 - 4	7 x 25	63	1 5	ZK237B 41Z150	2CPX063163R9999 1SPE007715F9708
	26 x 1.5 - 4	8 x 25	63	1 5	ZK268B 41Z151	2CPX063164R9999 1SPE007715F9709
N quick-plug terminals	5 x 1.5 - 4	0 x 25	63	1	ZK50BT	2CPX062745R9999
With adapter ZK15 for lateral assembling in the UK6... or for fastening to the DIN rail						
PE quick-plug terminals For terminal carriers	5 x 1.5 - 4	1 x 25	63	1 5/180	ZK51G 41Z77	2CPX062757R9999 1SPE007715F9712
	8 x 1.5 - 4	2 x 25	63	1 5/150	ZK82G 41Z78	2CPX062758R9999 1SPE007715F9713
	11 x 1.5 - 4	3 x 25	63	1 5/100	ZK113G 41Z79	2CPX062759R9999 1SPE007715F9714
	14 x 1.5 - 4	4 x 25	63	1 5/90	ZK144G 41Z80	2CPX062760R9999 1SPE007715F9715
	17 x 1.5 - 4	5 x 25	63	1 5/70	ZK175G 41Z81	2CPX062761R9999 1SPE007715F9716
	20 x 1.5 - 4	6 x 25	63	1 1 5/60	ZK206G 41Z82	2CPX062762R9999 1SPE007715F9717
	23 x 1.5 - 4	7 x 25	63	1 5	ZK237G 41Z152	2CPX063165R9999 1SPE007715F9718
	26 x 1.5 - 4	8 x 25	63	1 5	ZK268G 41Z153	2CPX063166R9999 1SPE007715F9719



41Z68

MISTRAL41 – Terminal block carriers

Description	Order code	Type code	Packaging
Carrier 8M	1SPE007715F0751	41Z67	5/280
Carrier 12M	1SPE007715F0752	41Z68	5/225
Carrier 18M	1SPE007715F0753	41Z69	5/150

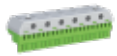
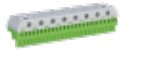
Consumer units

Terminal blocks

Terminal blocks

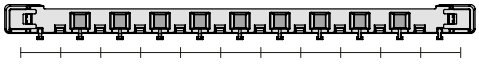
N/PE terminals with units		N screw-terminals	Type	Screw connection system		PE screw-terminals	Type	Screw connection system	
1 2 3			ZKS6B 41Z57	3 x 6 mm²	3 x 16 mm²		ZKS6G 41Z62	3 x 6 mm²	3 x 16 mm²
1 2 3 4 5			ZKS11B 41Z58	5 x 6 mm²	5 x 16 mm²		ZKS11G 41Z63	5 x 6 mm²	5 x 16 mm²
1 2 3 4 5 6 7			ZKS16B 41Z59	9 x 6 mm²	7 x 16 mm²		ZKS11G 41Z63	9 x 6 mm²	7 x 16 mm²
1 2 3 4 5 6 7 8 9			ZKS21B 41Z60	12 x 6 mm²	9 x 16 mm²		ZKS21G 41Z65	12 x 6 mm²	9 x 16 mm²
1 2 3 4 5 6 7 8 9 10 11			ZKS26B 41Z61	15 x 6 mm²	11 x 16 mm²		ZKS26G 41Z66	15 x 6 mm²	11 x 16 mm²

Terminal blocks screwless

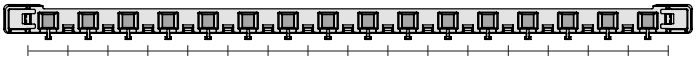
1 2		ZK50B 41Z70 ZK50BT	0 x 25 mm²	5 x 1,5 - 4 mm²	-		-	-
1 2		ZK51B 41Z71	1 x 25 mm²	5 x 1,5 - 4 mm²		ZK51G 41Z77	1 x 25 mm²	5 x 1,5 - 4 mm²
1 2 3		ZK82B 41Z72	2 x 25 mm²	8 x 1,5 - 4 mm²		ZK82G 41Z78	2 x 25 mm²	8 x 1,5 - 4 mm²
1 2 3 4		ZK113B 41Z73	3 x 25 mm²	11 x 1,5 - 4 mm²		ZK113G 41Z79	3 x 25 mm²	11 x 1,5 - 4 mm²
1 2 3 4 5		ZK144B 41Z74	4 x 25 mm²	14 x 1,5 - 4 mm²		ZK144G 41Z80	4 x 25 mm²	14 x 1,5 - 4 mm²
1 2 3 4 5 6		ZK175B 41Z75	5 x 25 mm²	17 x 1,5 - 4 mm²		ZK175G 41Z81	5 x 25 mm²	17 x 1,5 - 4 mm²
1 2 3 4 5 6 7		ZK206B 41Z76	6 x 25 mm²	20 x 1,5 - 4 mm²		ZK206G 41Z82	6 x 25 mm²	20 x 1,5 - 4 mm²
1 2 3 4 5 6 7 8		ZK237B 41Z150	7 x 25 mm²	23 x 1,5 - 4 mm²		ZK237G 41Z152	7 x 25 mm²	23 x 1,5 - 4 mm²
1 2 3 4 5 6 7 8 9		ZK268B 41Z151	8 x 25 mm²	26 x 1,5 - 4 mm²		ZK268G 41Z153	8 x 25 mm²	26 x 1,5 - 4 mm²

Terminal block carriers

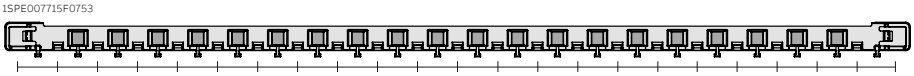
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1SPE007715F0752

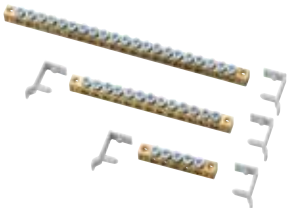


1SPE007715F0753



Consumer units

MISTRAL65 / 65H – Ordering details terminal bars



MISTRAL – Terminal bars

Description	Order code	Type code
Terminal bars		
Terminal bar 5 holes D.4.5 mm	M125310000	41Z28
Terminal bar 10 holes D.4.5 mm and 3 holes D.5.6 mm	M125320000	41Z29
Terminal bar 16 holes D.4.5 mm and 3 holes D.5.6 mm	M125330000	41Z30
Terminal bar 15 holes D.4.5 mm and 6 holes D.5.6 mm	M125340000	41Z31
Terminal bar 19 holes D.4.5 mm and 6 holes D.5.6 mm	M125350000	41Z32



MISTRAL – Terminal bar carriers

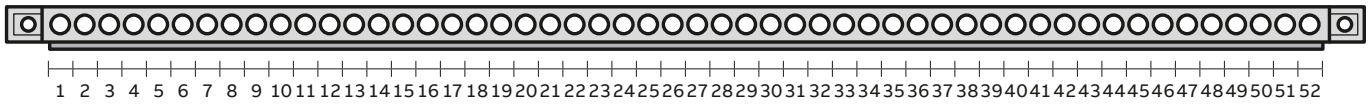
Description	Order code	Type code
Terminal carrier		
Carrier for 8 moduls	1SLM004100A1953	41Z25
Carrier for 12 modules	1SLM004100A1954	41Z26
Carrier for 18 modules	1SLM004100A1955	41Z27

Consumer units

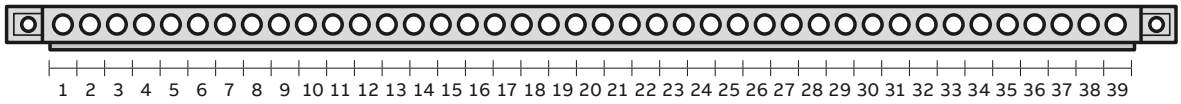
MISTRAL65 / 65H – Terminal bars assembly examples

Terminal bar carriers

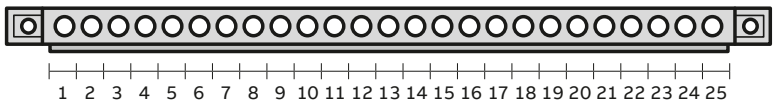
1SLM004100A1955



1SLM004100A1954

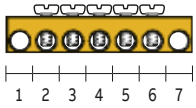


1SLM004100A1953

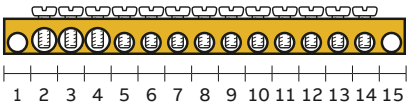


Terminal bars

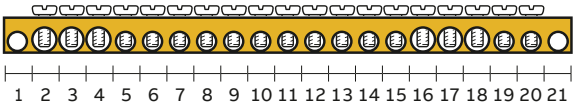
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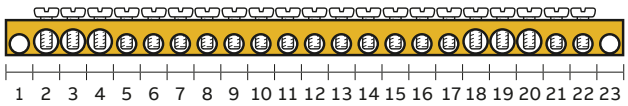
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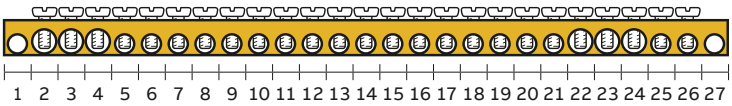
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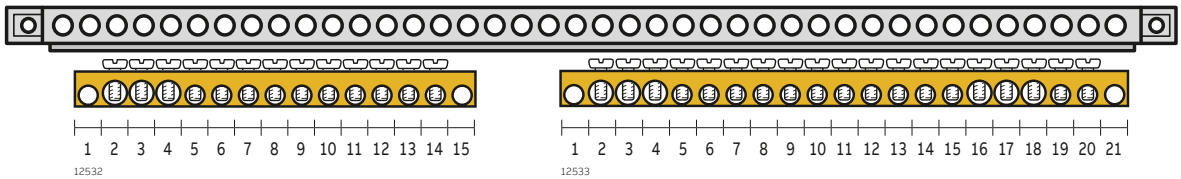


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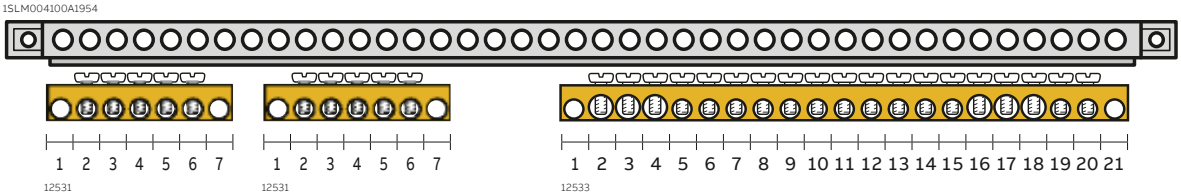


Assembly examples

1SLM004100A1954



1SLM004100A1954



Consumer units
basic E



basic E consumer units

With basic E you find a complete assortment of high quality enclosures made for small and medium flats, multiple dwellings or office and administration buildings. They are available in different sizes, colors, wall and flush mounted versions with smart accessories. Efficient enclosures from basic E are used wherever power is metered and distributed. A diversity of applications and products from which you can only benefit with ABB.

basic E enclosures are available in 8 different sizes


2 Modules


4 Modules


6 Modules


8 Modules

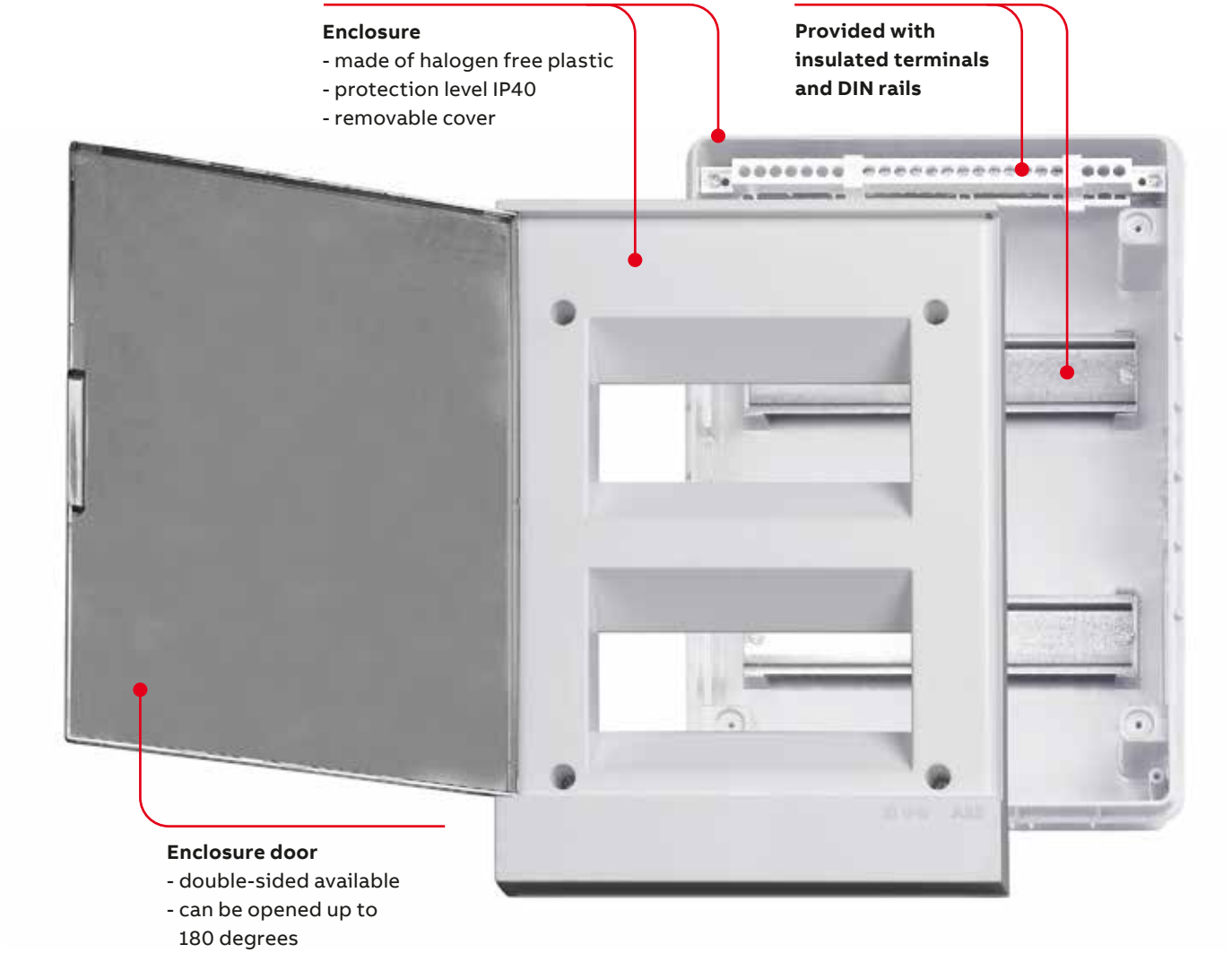

12 Modules


16 Modules


24 Modules


36 Modules

Consumer units
basic E



basic E – simplified ordering code for easy reference

BE	X	XX	X	X	XX
Series name	**Instal. type**	**IP rating**	**Door type**	**Terminal bar**	**Number of modules**
basic E	W = wall	40	1 = opaque	0 = no bars	02
	F = flush	41	2 = transparent	1 = config. 1	04
		65		2 = config. 2	06
				n = config. N	08
					12
					24
					36

Consumer units

basic E - Flush-mounted



No. of Modues	Description	Type code	Order code	Pieces per pack
2M	Flush-mounted opaque white door 2 modules	BEF401202	1SZR004002A1100	40
	Flush-mounted transparent grey door 2 modules	BEF402202	1SZR004002A1200	
4M	Flush-mounted opaque white door 4 modules	BEF401204	1SZR004002A1101	25
	Flush-mounted transparent grey door 4 modules	BEF402204	1SZR004002A1201	
6M	Flush-mounted opaque white door 6 modules	BEF401206	1SZR004002A1102	20
	Flush-mounted transparent grey door 6 modules	BEF402206	1SZR004002A1202	
8M	Flush-mounted opaque white door 8 modules	BEF401208	1SZR004002A1103	15
	Flush-mounted transparent grey door 8 modules	BEF402208	1SZR004002A1203	
12M	Flush-mounted opaque white door 12 modules	BEF401212	1SZR004002A1104	10
	Flush-mounted transparent grey door 12 modules	BEF402212	1SZR004002A1204	
16M	Flush-mounted opaque white door 16 modules	BEF401216	1SZR004002A1105	10
	Flush-mounted transparent grey door 16 modules	BEF402216	1SZR004002A1205	
24M	Flush-mounted opaque white door 24 modules	BEF401224	1SZR004002A1107	5
	Flush-mounted transparent grey door 24 modules	BEF402224	1SZR004002A1207	
36M	Flush-mounted opaque white door36 modules	BEF401236	1SZR004002A1109	5
	Flush-mounted transparent grey door 36 modules	BEF402236	1SZR004002A1209	
	Module cover 2 DIN modules		1SZR000000A0001	30

Consumer units

basic E - Wall-mounted


















No. of Modues	Description	Type code	Order code	Pieces per pack
2M	Wall-mounted opaque white door 2 modules	BEW401202	1SZR004002A2100	40
	Wall-mounted transparent grey door 2 modules	BEW402202	1SZR004002A2200	
4M	Wall-mounted opaque white door 4 modules	BEW401204	1SZR004002A2101	25
	Wall-mounted transparent grey door 4 modules	BEW402204	1SZR004002A2201	
6M	Wall-mounted opaque white door 6 modules	BEW401206	1SZR004002A2102	20
	Wall-mounted transparent grey door 6 modules	BEW402206	1SZR004002A2202	
8M	Wall-mounted opaque white door 8 modules	BEW401208	1SZR004002A2103	15
	Wall-mounted transparent grey door 8 modules	BEW402208	1SZR004002A2203	
12M	Wall-mounted opaque white door 12 modules	BEW401212	1SZR004002A2104	10
	Wall-mounted transparent grey door 12 modules	BEW402212	1SZR004002A2204	
16M	Wall-mounted opaque white door 16 modules	BEW401216	1SZR004002A2105	10
	Wall-mounted transparent grey door 16 modules	BEW402216	1SZR004002A2205	
24M	Wall-mounted opaque white door 24 modules	BEW401224	1SZR004002A2107	5
	Wall-mounted transparent grey door 24 modules	BEW402224	1SZR004002A2207	
36M	Wall-mounted opaque white door36 modules	BEW401236	1SZR004002A2109	5
	Wall-mounted transparent grey door 36 modules	BEW402236	1SZR004002A2209	

Mini EUROPA40

Wall-mounting covers without door IP40



Available in white and grey and three different sizes to accommodate 2 to 6 modules.

The particularly robust and shock resistant frame ensures complete protection of the equipment installed.

The range is manufactured in accordance with the IEC 60670-24 standard.

Each cover is equipped with a DIN bar.

Mini EUROPA40
Wall-mounting covers without door IP40



This consumer unit without door reachs IP40.



The upper and lower walls include precuts on the internal side for the passing through of wiring trunking.



These covers can be opened from the front side to ensure easier access during installation.

Technical characteristics

Protection degree: IP40.
Colour: RAL 9016 red and RAL 7035 grey.
Material: manufactured in self-extinguishing thermoplastic resistant to abnormal heat and to fire up to 650°C (glow wire test), according to IEC 60695-2-11 standard.
Installation temperature: -25°C ÷ +60°C.
Shock resistant: 6 joule (with mounted circuit breakers).
Conformity: IEC 60670-24 certification.



Consumer units

Mini EUROPA40 - Order codes



2 modules



4 modules



6 modules

Description	No. of modules [18 mm]	Dimensions WxHxD [mm]	Order code	Packaging
RAL 9016 white	2	50x140x65	1SL2402A00	1/45
RAL 7035 grey	2	50x140x65	12422	1/45
RAL 9016 white	4	95x160x65	1SL2404A00	1/20
RAL 7035 grey	4	95x160x65	12424	1/20
RAL 9016 white	6	140x160x65	1SL2406A00	1/12
RAL 7035 grey	6	140x160x65	12426	1/12

Consumer units

Mini EUROPA40 - Order codes



Description No of holes x Ø holes (mm) + No of holes x mm²	For covers type	Order code	Packaging
Terminal bars			
2x16 + 3x25	1SL2404A00 - 1SL2406A00 12424 - 12426	12502	25/750



Description	No. of modules [18 mm]	Order code	Packaging
Module covers			
RAL 9016 white	1	1SL2857A00	50/1500
RAL 9016 white	4	1SL2859A00	25/300
RAL 7035 grey	1	12861	50/1500
RAL 7035 grey	4	12863	25/300



Description	Order code	Packaging
Screw lead sealing accessory	12860	50/1500

Consumer units
IP 40 and IP 55 panel fronts





Consumer units
IP 40 and IP 55 panel fronts

IP 40 panel fronts

Technical characteristics
- protection degree **IP 40**
- in **thermoplastic**, self-extinguishing and resistant to abnormal heat and fire up to 650 °C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
- available in **RAL 7035 grey**
- installation temperature from -25 °C to +60 °C
- resistant to heat: ball thermopressure up to +85 °C in compliance with EN 60695-10-2 Standard
- fronts are supplied with:
  - module covers
  - instruction sheet

IP 55 panel fronts

Technical characteristics
- protection degree **IP 55**
- available with transparent, smoky horizontally hinged door in the version with lock and lead-sealable spring
- door designed to take a lock with coded key code 12 865
- available in **RAL 7035 grey**
- in **thermoplastic**, self-extinguishing and resistant to abnormal heat and fire up to 650 °C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
- installation temperature from -25 °C to +60 °C
- resistant to heat: ball thermopressure up to +85 °C in compliance with EN 60695-10-2 Standard
- shock resistance 6 Joules
- fronts are supplied with:
  - module covers
  - instruction sheet



Consumer units

IP 40 and IP 55 panel fronts



IP 40 panel fronts – 2 modules

RAL 7035 grey

Dimensions W × H × D [mm]	Order code	Box/pack No items
81x90x50	12 362	10/40



IP 40 panel fronts – 3 modules

RAL 7035 grey

Dimensions W × H × D [mm]	Order code	Box/pack No items
99x90x50	12 363	10/40



IP 40 panel fronts – 4 modules

RAL 7035 grey

Dimensions W × H × D [mm]	Order code	Box/pack No items
117x90x50	12 364	6/24



IP 55 panel fronts – 4 modules

RAL 7035 grey

Spring closing

Dimensions W × H × D [mm]	Order code	Box/pack No items
125x180x80	12 658	1/10



IP 55 panel fronts – 6 modules

RAL 7035 grey

Spring closing

Dimensions W × H × D [mm]	Order code	Box/pack No items
160x180x80	12 659	1/10



IP 55 panel fronts – 10 modules

RAL 7035 grey

Spring closing

Dimensions W × H × D [mm]	Order code	Box/pack No items
230x180x80	12 660	1/7

Consumer units

Accessories for IP 55 panel fronts



Module covers

No modules	Colour	Order code	Box/pack No items
1	RAL 7035 grey	12 861	50/1500
4	RAL 7035 grey	12 863	25/300



Lock with key

Description	Order code	Box/pack No items
Coded type	12 865	10/300



Spare transparent smoky doors

Spring closing

For fronts type	Order code	Box/pack No items
12 696	12 658	10/40
12 697	12 659	10/40
12 698	12 660	10/20

Notes

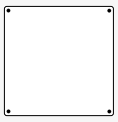
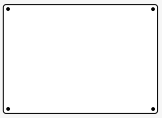
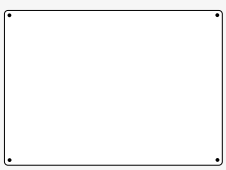
Electrical installation solutions for buildings
General purpose enclosures

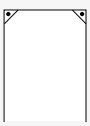
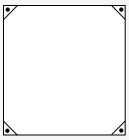
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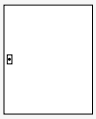
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General Purpose Enclosures

Range overview

IP66 Multibox
 65x65x57/81
 94x65x57/81
 94x94x57/81
 110x110x66/90
 130x94x57/81
 130x130x75/99
 180x94x57/81
 180x110x90/111/165
 182x180x90/111/165
 254x180x90/111/165
 361x254x111/165

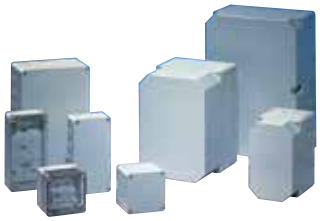
IP67 APO
 186x151x140
 302x186x175
 302x302x175
 372x302x175
 488x302x175
 558x302x175
 603x302x175
 603x372x175
 603x603x175

IP65/66 ARIA
 300x200x170
 400x300x170
 500x400x230
 600x400x230
 700x500x270
 800x600x300
 1000x800x300

IP54/55/65 PolySafe
 500x500x320
 500x750x320
 500x1000x320
 750x500x320
 750x750x320
 750x1000x320
 750x1250x320
 1000x500x320
 1000x750x320
 1000x1000x320
 1000x1000x320
 1000x1250x320
 1250x750x320
1250x1000x320
1250x1000x320
1250x1000x320

General purpose enclosures

MultiBox - Small multi-purpose boxes for all types of application



MultiBox

Applications

- Ideal for industrial automation and control, machinery and OEM.
- Electronic applications in the telecommunications industry.
- May also be used in tertiary and energy distribution applications.

Standard: EN/IEC 60670-22 (Polystyrene), EN/IEC 61439-2 (Polycarbonate)

Specifications and advantages

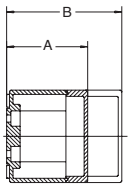
- 11 different sizes of box are available (from 65 x 65 mm up to 361 x 254 mm) plus 3 different cover heights.
- Material: polystyrene or polycarbonate reinforced with glass fiber.
- Color: RAL 7035 gray
- High protection rating, IP66-IK07 for polystyrene and IP66-IK08 for polycarbonate, thanks to the injected polyurethane gasket.
- Polycarbonate boxes are available with a smooth surface (one single entry) or with multiple metric cutouts.
- Polystyrene boxes are available with a smooth surface or with multiple metric cutouts.
- Opaque gray or transparent covers available in various heights.
- Designed for installation on all types of surface.
- Vertical and horizontal coupling.
- Polystyrene boxes (glow wire tested to 650°C) can withstand temperatures of up to +70°C, polycarbonate boxes (glow wire tested to 950°C) can withstand temperatures of up to +120°C.
- Total insulation ⧈.
- High level of resistance to chemical and aggressive environments.
- Halogen-free.
- Self-extinguishing (UL94-V2).
- Insulation voltage Ui = 1000 V

Why choose MultiBox?

Would you prefer a standard product or a custom one?
Or, would you prefer a “turnkey” solution (assembled/wired)?
ABB can offer you custom products and comprehensive solutions to meet your requirements!

General purpose enclosures

MultiBox - Small boxes for all types of application







		Polystyrene		Polycarbonate[1]			
		Gray cover RAL 7035		Gray cover RAL 7035		Cover transparent	
Back box	**Depth**	**Type**	**Order code**	**Type**	**Order code**	**Type**	**Order code**
		MB 11 H x L = 65 x 65mm					
With one metric cutout	A = 57	MB861612	4TBG861612C0100	MB861500	4TBG861500C0100	MB861501	4TBG861501C0100
	B = 81	MB861614	4TBG861614C0100	MB861502	4TBG861502C0100	MB861503	4TBG861503C0100
Smooth	A = 57	MB861668	4TBG861668R0100				
	B = 81	MB861670	4TBG861670C0100				
		MB 21 H x L = 94 x 65mm					
With one metric cutout	A = 57	MB861616	4TBG861616C0100	MB861504	4TBG861504C0100	MB861505	4TBG861505C0100
	B = 81	MB861618	4TBG861618C0100	MB861506	4TBG861506C0100	MB861507	4TBG861507C0100
Smooth	A = 57	MB861672	4TBG861672C0100				
	B = 81	MB861674	4TBG861674C0100				
		MB 22 H x L = 94 x 94mm					
With one metric cutout	A = 57	MB861620	4TBG861620R0100	MB861508	4TBG861508C0100	MB861509	4TBG861509C0100
	B = 81	MB861622	4TBG861622C0100	MB861510	4TBG861510C0100	MB861511	4TBG861511C0100
Smooth	A = 57	MB861676	4TBG861676R0100				
	B = 81	MB861678	4TBG861678C0100				
		MB 33 H x L = 110 x 110mm					
With one metric cutout	A = 66	MB861624	4TBG861624R0100	MB861512	4TBG861512C0100	MB861513	4TBG861513C0100
	B = 90	MB861626	4TBG861626R0100	MB861514	4TBG861514C0100	MB861515	4TBG861515C0100
Smooth	A = 66	MB861680	4TBG861680C0100				
	B = 90	MB861682	4TBG861682C0100				
		MB 42 H x L = 130 x 94mm					
With one metric cutout	A = 57	MB861628	4TBG861628R0100	MB861516	4TBG861516C0100	MB861517	4TBG861517C0100
	B = 81	MB861630	4TBG861630R0100	MB861518	4TBG861518R0100	MB861519	4TBG861519C0100
Smooth	A = 57	MB861684	4TBG861684R0100				
	B = 81	MB861686	4TBG861686C0100				
		MB 44 H x L = 130 x 130mm					
With one metric cutout	A = 75	MB861632	4TBG861632R0100	MB861520	4TBG861520R0100	MB861521	4TBG861521C0100
	B = 99	MB861634	4TBG861634R0100	MB861522	4TBG861522R0100	MB861523	4TBG861523C0100
Smooth	A = 75	MB861688	4TBG861688C0100				
	B = 99	MB861690	4TBG861690R0100				
		MB 52 H x L = 180 x 94mm					
With one metric cutout	A = 57	MB861636	4TBG861636R0100	MB861524	4TBG861524C0100	MB861525	4TBG861525C0100
	B = 81	MB861638	4TBG861638R0100	MB861526	4TBG861526C0100	MB861527	4TBG861527C0100
Smooth	A = 57	MB861692	4TBG861692C0100				
	B = 81	MB861694	4TBG861694C0100				

(1) Smooth = one metric cutout on the short side for a supply cable.
Pack = 1

General purpose enclosures

MultiBox - Small boxes for all types of application





(for terminals)

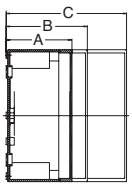


(for terminals
and equipment)

	Mounting plate (insulated)		DIN profile 15x5x1		DIN profile 35x7.5x1	
	Type	Order code	Type	Order code	Type	Order code
					-	
	74x45mm					
	MB861731	4TBG861731C0100			-	
					-	
	74x74mm		L=49.5 short side			
	MB861732	4TBG861732C0100	MB861741	4TBG861741C0100	-	
	90x90mm		L=80 long/short side			
	MB861733	4TBG861733R0100	MB861742	4TBG861742R0100		
	110x74mm		L=92 long/short side		L=81 long/short side	
	MB861734	4TBG861734R0100	MB861743	4TBG861743C0100	MB861746	4TBG861746R0100
	110x110mm		L=111 long/short side		L=106 long/short side	
	MB861735	4TBG861735R0100	MB861744	4TBG861744R0100	MB861747	4TBG861747R0100
	160x74mm		L=154 long side		L=144 long side	
	MB861736	4TBG861736R0100	MB861745	4TBG861745C0100	MB861748	4TBG861748R0100

General purpose enclosures

MultiBox - Small boxes for all types of application







		Polystyrene		Polycarbonate[1]			
		Gray cover RAL 7035		Gray cover RAL 7035		Transparent cover	
Back box	Depth	Type	Order code	Type	Order code	Type	Order code
		MB 53 H x L = 180 x 110mm					
With a metric cutout	A = 90	MB861640	4TBG861640R0100	MB861528	4TBG861528C0100	MB861529	4TBG861529C0100
	B = 111	MB861642	4TBG861642R0100	MB861530	4TBG861530R0100	MB861531	4TBG861531R0100
	C = 165	MB861644	4TBG861644R0100	MB861532	4TBG861532C0100	MB861533	4TBG861533C0100
Smooth	A = 90	MB861696	4TBG861696R0100				
	B = 111	MB861698	4TBG861698C0100				
	C = 165	MB861700	4TBG861700C0100				
		MB 65 H x L = 182 x 180mm					
With a metric cutout	A = 90	MB861646	4TBG861646R0100	MB861534	4TBG861534C0100	MB861535	4TBG861535C0100
	B = 111	MB861648	4TBG861648R0100	MB861536	4TBG861536R0100	MB861537	4TBG861537R0100
	C = 165	MB861650	4TBG861650R0100	MB861538	4TBG861538C0100	MB861539	4TBG861539C0100
Smooth	A = 90	MB861702	4TBG861702R0100				
	B = 111	MB861704	4TBG861704C0100				
	C = 165	MB861706	4TBG861706C0100				
		MB 75 H x L = 254 x 180mm					
With a metric cutout	A = 90	MB861654	4TBG861654R0100	MB861542	4TBG861542C0100	MB861543	4TBG861543C0100
	B = 111	MB861656	4TBG861656R0100	MB861544	4TBG861544R0100	MB861545	4TBG861545R0100
	C = 165	MB861658	4TBG861658C0100	MB861546	4TBG861546R0100	MB861547	4TBG861547R0100
Smooth	A = 90	MB861710	4TBG861710R0100				
	B = 111	MB861712	4TBG861712R0100				
	C = 165	MB861714	4TBG861714R0100				
		MB 87 H x L = 361 x 254mm					
With a metric cutout	B = 111	MB861662	4TBG861662R0100			MB861551	4TBG861551R0100
	C = 165	MB861664	4TBG861664R0100	MB861552	4TBG861552C0100	MB861553	4TBG861553C0100
Smooth	B = 111	MB861718	4TBG861718C0100				
	C = 165	MB861720	4TBG861720R0100				

(1) Smooth = one metric cutout on the short side for a supply cable.
Pack = 1

Table of dimensions

MB (MultiBox)	Height	Width
11	65	65
21	94	65
22	94	94
33	110	110
42	130	94
44	130	130
52	180	94
53	180	110
65	182	180
75	254	180
87	361	254

General purpose enclosures

MultiBox - Small boxes for all types of application



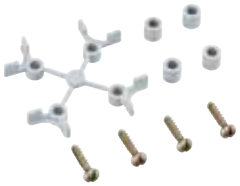


(for terminals
and equipment)

	Mounting plate (insulated)		DIN profile 35 x 7.5 x 1	
	Type	Order code	Type	Order code
	150 x 90mm			
	MB861737	4TBG861737R0100		
	150 x 150mm		**L=144 long side**	
	MB861738	4TBG861738R0100	MB861748	4TBG861748R0100
	220 x 150mm		**L=216 long side**	
	MB861739	4TBG861739R0100	MB861749	4TBG861749R0100
	331 x 220mm		**L=336 long side**	
	MB861740	4TBG861740R0100	MB861750	4TBG861750C0100

General purpose enclosures

MultiBox - Accessories

Product	Type	Order code	Pack
Coupling kit			
For assembling multiple boxes horizontally and/or vertically			
	① Small M20		
	MB861753	4TBG861753C0100	5
	① Small M25		
	MB861754	4TBG861754C0100	5
	① Small M32		
	MB861755	4TBG861755C0100	5
	② Large from MB 53		
	MB861756	4TBG861756C0100	1
Hinges			
Open all boxes using the hinged covers			
	Large from MB 53		
	MB861758	4TBG861758R0100	1
Fixing lugs			
For external securing of the entire range			
	1 set of 4 lugs		
	MB861759	4TBG861759C0100	1
Spacers			
Plastic material (6 + 8 mm), sets the distance between the boxes or the mounting plate and the base of the box			
	1 set of 8 parts. (includes securing screws)		
	MB861762	4TBG861762C0100	1

Product	Type	Order code	Pack
Carry handle			
(plastic, green in color)			
	Includes plastic screws		
	MB861764	4TBG861764C0100	1
	Includes self-tapping screws		
	MB861765	4TBG861765C0100	1
IP66 double membrane nipple			
IP66 double membrane connection. For assembly without locking nuts. Membrane includes 2 integral seals			
	M16		
	MB861724	4TBG861724R0100	50
	M20		
	MB861725	4TBG861725R0100	50
	M25		
	MB861726	4TBG861726R0100	50
	M32		
	MB861727	4TBG861727C0100	25
Vent (IPx4)			
Provides ventilation and prevents condensation. Vents should preferably be installed in the upper and lower sections of the box.			
			
	MB861728	4TBG861728R0100	25
Cover screws			
(plastic, green in color)			
	Short for the cover. Depth A		
	MB861769	4TBG861769R0100	20
	Long for the cover. Depth B & C		
	MB861770	4TBG861770C0100	20

Notes

General purpose enclosures

APO - Modular polyester boxes



APO

Applications

- Heavy industry
- Refineries
- Shipyards
- Steelworks
- Breweries
- Petro-chemical industry
- Public works
- Solar energy applications

Standard: EN/IEC 62208

Standards/Certification

- Boxes with polyester cover: types 3, 3R, 4, 4X, 6, 6P, 12 and 13
- Enclosures with polycarbonate cover: types 3, 3R, 4, 4X, 12 and 13
- Boxes with hinged cover: types 3, 3R, 4, 4X, 6, 12 and 13
  Available upon request.

- Boxes with polyester cover: types 3, 3R, 4, 4X, 6, 6P, 12 and 13
- Boxes with polycarbonate cover: types 3, 3R, 4, 4X, 12 and 13
- Boxes with hinged cover: types 3, 3R, 4, 4X, 6, 12 and 13
  Available upon request.

Lloyd's Register of Shipping

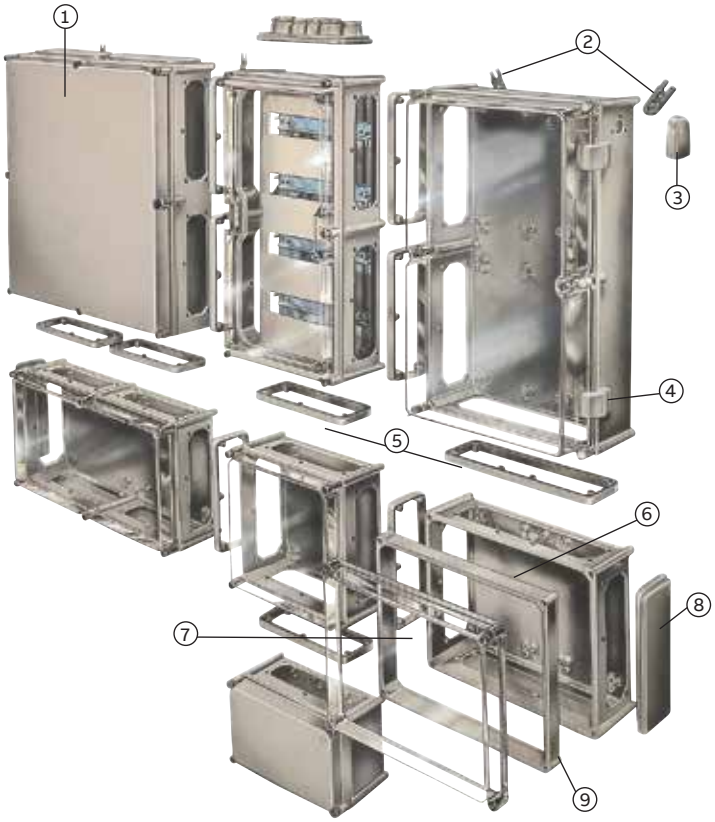
Specifications

- The range comprises nine different sizes with 300 and 185 mm modules.
- The base is fabricated from polyester, hot press molded and reinforced with glass fiber, dyed in mass RAL 7035 light gray color. It is equipped with M4 inserts (Dodge-type) for attaching a mounting plate or a frame.
- The cover may be fabricated from transparent polycarbonate or hot press molded polyester, reinforced with glass fiber, dyed in mass RAL 7035 light gray color.
- Maximum protection for the user and equipment thanks to its total insulation ⧈ and IP67 protection rating in accordance with EN/IEC 60529.
- IK08 protection rating against external mechanical impacts in accordance with EN/IEC 62208.
- Each box, which is a multiple of a smaller one, also has a variety of the mounting points of the smaller box. These points have non-threaded holes for embedded M4 inserts.
- The base also includes four to six non-threaded holes for embedded M6 inserts.
- The box may be wall-mounted or on a pedestal.
- Material is simple to work with using conventional tools such as drills, mills, saws, etc.
- Polyester boxes can resist temperatures of up to 70°C under continuous operation and peak temperatures of up to 130°C. The transparent polycarbonate covers can resist operating temperatures of up to 120°C.
- Insulation voltage Ui = 1000 V and 1500 V dc
- APO enclosures are UL Listed, in accordance with the UL Standard 508. They are also CSA-certified.

General purpose enclosures

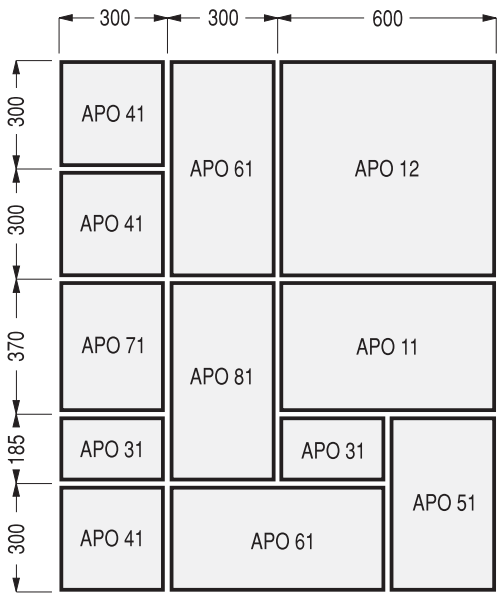
APO - Modular polyester boxes

Modular insulated box system



1. Polyester cover
2. Fixing lugs, stainless steel or polyamide
3. Fan
4. Hinge made from insulating material
5. Coupling frame
6. Depth extension frame
7. Transparent polycarbonate cover
8. Solid polyester closure plate
9. Polyurethane gasket

Optimal modular application



Technical data

Protection classification in accordance with IEC 60529		
Polyester cabinets	with 100% polyester cover	IP67
	with transparent polycarbonate cover	IP66
	with hinged cover	IP67
Cabinet with rubber cable entry		IP43/54[2]
Cabinet combination(s)		IP67[1]
Cabinet with raised frame		IP66

(1) Depending on cover used
(2) IP54 if cable entry is mounted at the bottom of the cabinet.

General purpose enclosures

APO - Modular polyester boxes



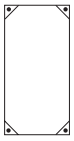
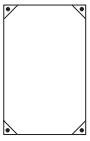
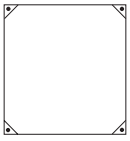
		Type	APO 1	APO 31	APO 41	APO 71
	Enclosure with polyester cover IP67 Solid cover with securing screws	H x W x D	186 x 151 x 140	302 x 186 x 175	302 x 302 x 175	370 x 300 x 175
		Type	AP1P	AP31P	AP41P	AP71P
		Order code	4TBO856048C0100	4TBO856049C0100	4TBO856050C0100	4TBO856051C0100
	Enclosure with polycarbonate cover: IP66 Transparent cover with securing screws	H x W x D	185 x 151 x 140	300 x 185 x 175	300 x 300 x 175	370 x 300 x 175
		Type	AP1T	AP31T	AP41T	AP71T
		Order code	4TBO856057C0100	4TBO856058C0100	4TBO856059C0100	4TBO856060C0100
	Enclosure with pivoting cover IP67 Transparent cover with clip-in buttons	H x W x D		300 x 185 x 175	300 x 300 x 175	370 x 300 x 175
		Type	-	AP31THC	AP41THC	AP71THC
		Order code		4TBO856066C0100	4TBO856067C0100	4TBO856068C0100
	Enclosure with hinged cover IP55 Solid cover	H x W x D	185 x 151 x 140	300 x 185 x 175	300 x 300 x 175	370 x 300 x 175
		Type	AP1PHC	AP31PHC	AP41PHC	AP71PHC
		Order code	4TBO856071C0100	4TBO856072C0100	4TBO856073C0100	4TBO856074C0100

Pack = 1

General purpose enclosures

APO - Modular polyester boxes



APO 51	**APO 81**	**APO 61**	**APO 11**	**APO 12**
488x302x175	558x302x175	602x302x175	603x372x175	603x603x175
AP51P	AP81P	AP61P	AP11P	AP12P
4TBO856052C0100	4TBO856053C0100	4TBO856054C0100	4TBO856055C0100	4TBO856056C0100

485x300x210	555x300x210	600x300x210	600x370x210	600x600x210
AP51T	AP81T	AP61T	AP11T	AP12T
4TBO856061C0100	4TBO856062C0100	4TBO856063C0100	4TBO856064C0100	4TBO856065C0100

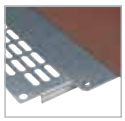
485x300x175		600x300x175		
AP51THC	-	AP61THC	-	-
4TBO856069C0100		4TBO856070C0100		

485x300x175	555x300x175	600x300x175	600x370x175	600x600x175
AP51PHC	AP81PHC	AP61PHC	AP11PHC	AP12PHC
4TBO856075C0100	4TBO856076C0100	4TBO856077C0100	4TBO856078C0100	4TBO856079C0100

General purpose enclosures

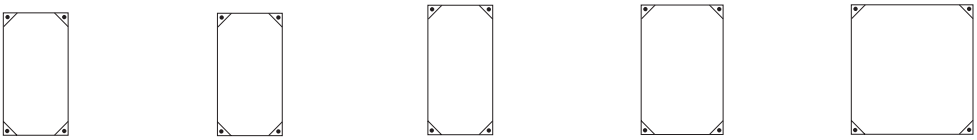
APO - Modular polyester boxes



			APO 1	APO 31	APO 41	APO 71
	Base with solid walls	H x W x D	186 x 151 x 85	302 x 186 x 131	302 x 302 x 131	372 x 302 x 131
		Type	AP1B	AP31B	AP41B	AP71B
		Order code	4TBO856000C0100	4TBO856001C0100	4TBO856002C0100	4TBO856003C0100
		Pack	4	4	1	4
	Base with 2 open walls The dimensions with shading are those of the open walls	H x W x D		302 x 186 x 131	302 x 302 x 131	372 x 302 x 131
		Type	-	AP31B2	AP41B2	AP71B2
		Order code		4TBO856009C0100	4TBO856010C0100	4TBO856011C0100
		Pack		4	4	4
	Base with 4 open walls	H x W x D		302 x 186 x 131	302 x 302 x 131	372 x 302 x 131
		Type	-	AP31B4	AP41B4	AP71B4
		Order code		4TBO856017C0100	4TBO856018C0100	4TBO856019C0100
		Pack		4	4	4
	Polyester cover Solid cover including securing screws	H x W x D	186 x 151 x 45	302 x 186 x 45	302 x 302 x 45	372 x 302 x 45
		Type	AP1PC	AP31PC	AP41PC	AP71PC
		Order code	4TBO856025C0100	4TBO856026C0100	4TBO856027C0100	4TBO856028C0100
		Pack	4	4	4	4
	Polycarbonate cover Transparent cover with securing screws	H x W x D	186 x 151 x 45	302 x 186 x 45	302 x 302 x 45	372 x 302 x 45
		Type	AP1TC	AP31TC	AP41TC	AP71TC
		Order code	4TBO851196C0100	4TBO851173C0100	4TBO851277C0100	4TBO851176C0100
		H x W x D				
		Type	-	-	-	-
		Order code				
		Pack	4	4	4	4
	Pivoting cover Transparent cover with clip-in buttons for the frame	H x W x D		302 x 186 x 35	302 x 302 x 45	372 x 302 x 45
		Type	-	AP31STHC	AP41STHC	AP71STHC
		Order code		4TBO856034C0100	4TBO856035C0100	4TBO856036C0100
		Pack		4	4	4
	Depth extension frame Reinforced with PA6 polyamide glass fiber	H x W x D	186 x 151 x 35	302 x 186 x 35	302 x 302 x 35	372 x 302 x 35
		Type	AP1DE	AP31DE	AP41DE	AP71DE
		Order code	4TBO856040C0100	4TBO856041C0100	4TBO856042C0100	4TBO856043C0100
		Pack	4	4	4	4
	Mounting plate Pertinax 5 mm Galvanized steel Sendzimir 2 mm 1.5 mm perforated plate (Slide nuts, see I.22)	H x W x D	140 x 105	228 x 139	254 x 228	298 x 254
		Type	AP1MHP	AP31MHP	AP41MHP	AP71MHP
		Order code	4TBO851190C0100	4TBO851187C0100	4TBO851278C0100	4TBO851181C0100
		H x W x D	134 x 99	249 x 134	249 x 249	319 x 249
		Type	AP1MS	AP31MS	AP41MS	AP71MS
		Order code	4TBO851191C0100	4TBO851188C0100	4TBO851279C0100	4TBO851185C0100
		H x W x D	134 x 99	249 x 134	249 x 249	319 x 249
		Type	-	AP31MSP	AP41MSP	AP71MSP
		Order code		4TBO852875C0100	4TBO852876C0100	4TBO852877C0100
		Pack	1	1	1	1

General purpose enclosures

APO - Modular polyester boxes



APO 51	APO 81	APO 61	APO 11	APO 12
488 x 302 x 131	558 x 302 x 131	603 x 302 x 131	603 x 372 x 131	603 x 603 x 131
AP51B	AP81B	AP61B	AP11B	AP12B
4TBO856004C0100	4TBO856005C0100	4TBO856006C0100	4TBO856007C0100	4TBO856008C0100
2	2	2	2	2
488 x 302 x 131	558 x 302 x 131	603 x 302 x 131	603 x 372 x 131	603 x 603 x 131
AP51B2	AP81B2	AP61B2	AP11B2	AP12B2
4TBO856012C0100	4TBO856013C0100	4TBO856014C0100	4TBO856015C0100	4TBO856016C0100
2	2	2	2	2
488 x 302 x 131	558 x 302 x 131	603 x 302 x 131	603 x 372 x 131	603 x 603 x 131
AP51B4	AP81B4	AP61B4	AP11B4	AP12B4
4TBO856020C0100	4TBO856021C0100	4TBO856022C0100	4TBO856023C0100	4TBO856024C0100
2	2	2	2	2
488 x 302 x 45	558 x 302 x 45	603 x 302 x 45	603 x 372 x 45	603 x 603 x 45
AP51PC	AP81PC	AP61PC	AP11PC	AP12PC
4TBO856029C0100	4TBO856030C0100	4TBO856031C0100	4TBO856032C0100	4TBO856033C0100
2	2	2	2	2
488 x 302 x 80	558 x 302 x 80	603 x 302 x 80	603 x 372 x 80	603 x 603 x 80
AP51TC	AP81CP	AP61TC	AP11TC	AP12TC
4TBO852092C0100	4TBO851193C0100	4TBO851282C0100	4TBO851290C0100	4TBO852280C0100
		603 x 302 x 45		
-	-	-	-	-
2	2	2	2	2
488 x 302 x 45		603 x 302 x 45	603 x 372 x 115	
AP51STHC	-	AP61STHC	AP11STHC	-
4TBO856037C0100		4TBO856038C0100	4TBO856039C0100 (1)	
2		2	2	
	558 x 302 x 60	603 x 302 x 60	603 x 372 x 60	603 x 603 x 60
-	AP81DE	AP61DE	AP11DE	AP12DE
	4TBO856044C0100	4TBO856045C0100	4TBO856046C0100	4TBO856047C0100
	2	2	2	2
413 x 254	484 x 254	528 x 254	528 x 324	555 x 555
AP51MHP	AP81MHP	AP61MHP	AP11MHP	AP12MHP
4TBO852091C0100	4TBO851170C0100	4TBO851286C0100	4TBO851289C0100	4TBO852174C0100
435 x 249	505 x 249	550 x 249	550 x 319	550 x 555
AP51MS	AP81MS	AP61MS	AP11MS	AP12MS
4TBO852095C0100	4TBO851171C0100	4TBO851287C0100	4TBO851292C0100	4TBO852178C0100
435 x 249	505 x 249	550 x 249	550 x 319	550 x 555
AP51MSP	-	-	-	-
4TBO852878C0100				
1	1	1	1	1

(1) 4TBO856039C0100 2

Pivoting cover with deep frame



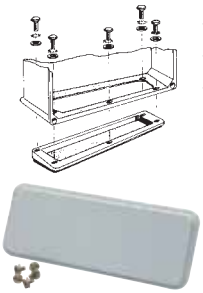
General purpose enclosures

APO - Accessories

Product		Type	Order code	Pack
Polystyrene closure plates				
PG/Metric specifications	Width			
4xM20/16 + 1xM32/25	185	APEP185	4TBO856096C0100	1
2xM32/25 + 3xM25/ M20 + 4xM20/16	300	APEP35	4TBO856131C0100	1
9xM25/20	300	APEP31	4TBO856097C0100	1
2xM50/40 + 2xM25/	300	APEP32	4TBO856098C0100	1
13xM20/16	300	APEP33	4TBO856099C0100	1
3xM40/32 + 2xM20/16	300	APEP34	4TBO856100C0100	1
1xM40/32 + 10xM25/20	370	APEP371	4TBO856101C0100	1
13xM25/20	370	APEP372	4TBO856102C0100	1



Solid polyester closure plates				
	Width			
	185	APBP185	4TBO856103C0100	1
	300	APBP3	4TBO856104C0100	1
	370	APBP37	4TBO856105C0100	1

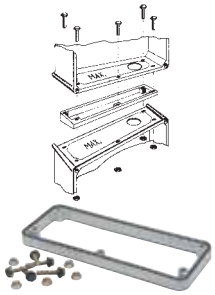


Dimensions for maximum cut-out, see Technical Guide

Product	Type	Order code	Pack
Coupling frames			

Made of glass fiber-reinforced polyamide.
- Supplied with a template.
- The slimmest section of the frame must be mounted toward the front of the base.
- The maximum obtainable passage between two bases is that indicated by the template.

The required number of openings may be applied within this space.



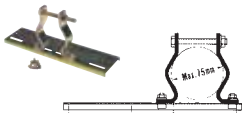
Width			
185	APCF185	4TBO856106C0100	1
300	APCF3	4TBO856107C0100	1
370	APCF37	4TBO856108C0100	1

Dimensions for maximum cut-out, see Technical Guide

Cable end boxes						
For walls	Type	Cable max Ø (mm)	Number of clamps supplied	Made of polyester		
300	APO31	1 x 75	1	AP31CEB	4TBO856115C0100	1
300	APO31	2 x 75	2	AP31CEB2	4TBO856116C0100	1
300	APO41	1 x 75	1	AP41CEB	4TBO856117C0100	1
300	APO61	1 x 75	1	AP61CEB	4TBO781936C0100	1
300	APO71	1 x 71	1	AP71CEB	4TBO781937C0100	1
370	APO71	3 x 75	1	AP71CEB2	4TBO856118C0100	1



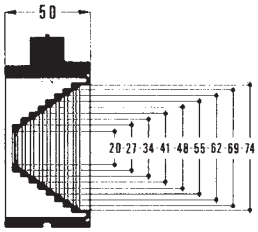
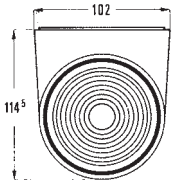
Dimensions, see Technical Guide

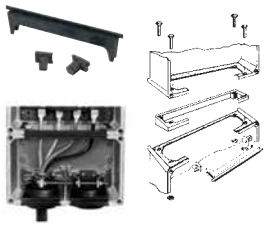
Cable grip clamps[1]			
	For attaching directly inside the cable end box. Cable max. Ø: 75mm Used on APO 31 and APO 71 For 185, 300 and 370mm enclosures		
	AP31CC75	4TBO851105C0100	1
	Universal cable grip clamp Cable max. Ø: 75mm Used on APO 41 For 300, 370 and 600mm enclosures		
	AP41CC75	4TBO851110C0100	1
	Additional bracket for attaching to the clamp support. Cable max. Ø: 75mm		
	APCC75	4TBO851111C0100	1

(1) See Technical Guide

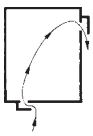
General purpose enclosures

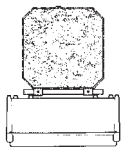
APO - Accessories

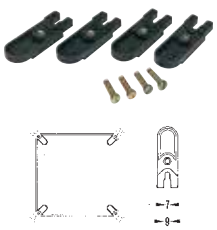
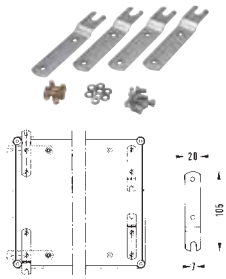
Product	Type	Order code	Pack
Rubber cable entry			
- For direct mounting - Supplied with a template			
	APRCS	4TBO851106C0100	1
 	For creating cable end. Cable max. Ø: 75mm		

Product	Type	Order code	Pack
Cable routing insert			
Makes connecting large-section cables simple while maintaining the original level of protection.			
	For 300mm side.		
	APBR3	4TBO851103C0100	1
	For 370mm side.		
	APBR37	4TBO851112C0100	1

Product	Type	Order code	Pack
Locks(1)			
Supplied with drilling template and mounting accessories.			
	Handle with 2 keys V2432E		
	APL2432E	4TBO852020C0100	1
(1) Not for use with pivoting cover			

Product	Type	Order code	Pack
IP44 Vent			
Install 2 vents per enclosure for ventilation to prevent the formation of condensation. Supplied with a template and fixings. Recommended installation: one vent at the highest and lowest points on each side of the enclosure.			
  	Set of 2 polyamide pieces. RAL 7035		
	PS833677	4TBP833677C0100	1

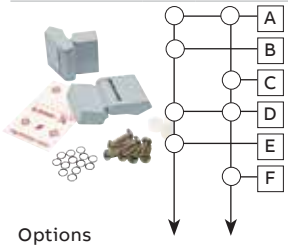
Product	Type	Order code	Pack
Pedestal mounting			
- The C profiles are mounted directly to the rear of the base using the bosses provided. - The brackets may be distributed along the length of the C profile according to the width of the pedestal.			
 	Set of 2 C profiles and screws. For enclosure 300 and 370mm side.		
	APPM	4TBO890510C2100	1

Product	Type	Order code	Pack
Fixing lugs			
Set of 4 supports and screws, in glass fiber-reinforced polyamide.			
	- For external mounting points. - Direct mounting through the 4 corner holes of the enclosure. - If using depth extension frames, first attach the supports. - Max equipment weight: 100kg.		
	APMBPA	4TBO851266C0100	1
Set of 4 stainless supports and screws (304-type)			
	- For very severe operating conditions. - The 4 brackets are mounted directly onto the rear of the base in the section that is reinforced for this purpose. - Mounting by means of M4 threaded inserts (provided). - Max equipment weight: 100kg.		
	APMBRVS	4TBO852025C0100	1

General purpose enclosures

APO - Accessories

Hinges

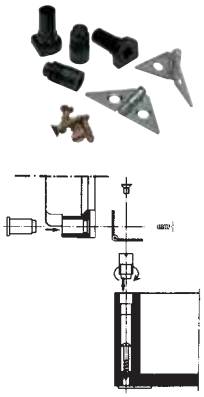


Type		Type	Hinges			
		A	A	APHA	4TBO856109C0100	1
		B	B	APHB	4TBO856110C0100	1
		C	C	APHC	4TBO856111C0100	1
		D	D	APHD	4TBO856112C0100	1
		E	E	APHE	4TBO856113C0100	1
		F	F	APHF	4TBO856114C0100	1

Options table	APO	Back box 31-41-71-51	Back box 81-61-11-12
Polyester cover	A	A	
Polyester cover + depth extension frame	B	C	
Polycarbonate cover	D	D	
Polycarbonate cover + depth extension frame	E	F	

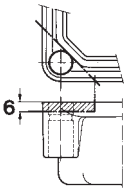
- If hinges are to be installed, the cover and the base or the depth extension frame must be drilled. Drilling templates are provided; the type to be used will obviously depend on the combination selected.
- As a result, there is a range of 6 kits comprising 2 hinges, fixing hardware, drilling template, instructions and optional reinforcement plates.

Stainless hinges



Set of 2 steel hinges (complete with accessories)

APHRVS	4TBO851268C0100	1



For installation, the cover must be milled along the dotted line to a depth of 6mm (see diagram).

Cover screws



Cover screws

APCS	4TBO851255C0100	50

Clip-in button

For cover or strip hinge screws



Set of 2 pieces

APCS2	4TBO851258C0100	1

Strip hinges



Set of 2 pieces

APHS	4TBO851256C0100	1

Warning: the base must be secured before mounting strip hinges.

Blanking screws with triangular head (TTR)

For fixed cover



Set of 2 pieces

APHSTTR	4TBO851262C0100	1

For pivoting cover



Set of 2 pieces

APHSTTRD	4TBO852016C0100	1

Wrench

For triangular head screw (TTR)



APTTRK	4TBO851016C0100	1

Sealing plate



Set of 2 pieces

APSP	4TBO851260C0100	1

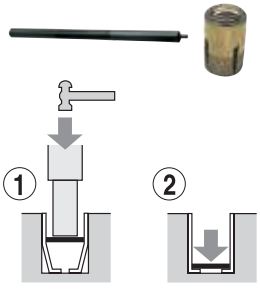
Padlock installation kit



APPL	4TBO852004C0100	1

Maximum shackle diameter: 8mm

Inserts



M4 Dodge-type

APTIM4	4TBO851026C0100	100

M6 Dodge-type x 12.5mm

APTIM6	4TBO851371C0100	100

M4 punch

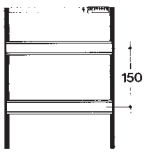
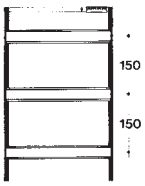
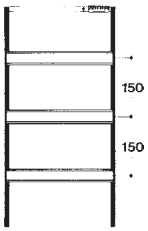
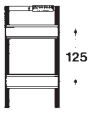
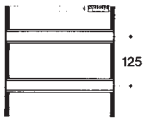
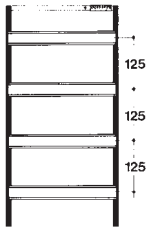
APTIM4T	4TBO851027C0100	1

M6 punch

APTIM6T	4TBO852003C0100	1

General purpose enclosures

APO - Functions for modular equipment

Type		APO 31	APO 41	APO 71	APO 51	APO 61
						
		302 x 186	302 x 302	372 x 302	488 x 302	603 x 302
		14 modules	14 modules	28 modules	42 modules	42 modules
Type		AP31D141	AP41D141	AP71D282	APACC852283	AP61D423
Order code		4TBO851326C0100	4TBO851336C0100	4TBO851353C0100	4TBO852283C0100	4TBO851345C0100
Functions for modular equipment Includes: - Bare chassis, equipped with a ground terminal and a front plate. - Securing screws. - 4 x 30 mm rise pillars.						
		302 x 186	302 x 302	372 x 302		603 x 302
		14 modules	28 modules	36 modules		56 modules
	Type	AP31D142	AP41D282	AP71D362		AP61D564
	Order code	4TBO851330C0100	4TBO851338C0100	4TBO851358C0100		4TBO851347C0100

Accessories

Module cover



Length: 72 mm
Cut-out width: 45 mm
Divisible by 9 mm sections

FORSTBP4	4TBR610142C0200	5
FORSTBP500	4TBR610484C0200	500

Product	Type	Order code	Pack
Label holders			
	Adhesive		
	APLB1M	4TBC851321C0100	1m

Connection busbars

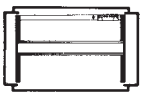
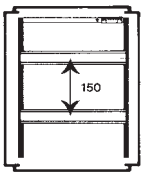
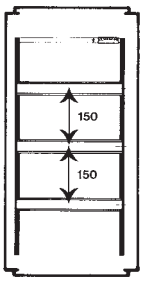
6 x 10 mm² + 2 x 16 mm², Clip onto 12 x 2 mm rail



Ground busbar - green		
FORSTTPE	4TBR610186C0200	4
Neutral busbar - blue		
FORSTTN	4TBR610187C0200	1

General purpose enclosures

APO - Stand-alone equipped boxes

Type	APO 31	APO 41	APO 71	APO 61	APO 11
					
Boxes for modular equipment Includes: - base with two open sides - with combi cable glands top: 13xM20/16 bottom: 2xM32/25 + 3xM25/20 + 4xM20/16 - bare chassis, equipped with a ground terminal and a front plate - transparent pivoting cover	186x302x175		372x302x175	603x302x175	
	14 modules		28 modules	42 modules	
Type	AP31DIN1		AP71DIN2	AP61DIN3	
Order code	4TBO856119C0100		4TBO856120C0100	4TBO856121C0100	

General purpose enclosures

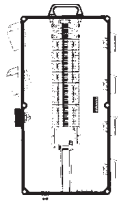
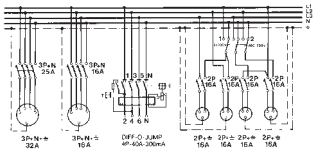
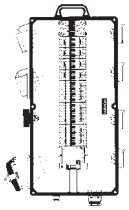
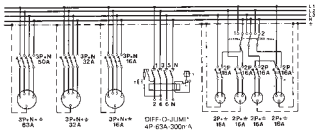
APO 61 - ▣ IP44-IK10 distribution enclosures



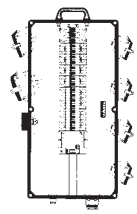
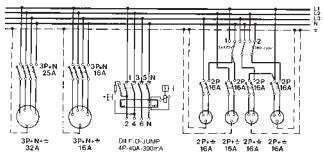
APO 61

- Made from polyester, self-extinguishing reinforced with glass fiber.
- Meet AREI requirements.
- Equipped with a circuit breaker for circuit protection.
- Also equipped with a 300 mA differential switch for general protection.
- Distribution cabinets are equipped with wall mounting lugs.
- Wired and equipped with a sufficiently sized entry.
- May be coupled to a meter enclosure.
- 3 x 230 V/3 x 400 V+N network inverter.
- Dimensions: 600 x 300 x 175mm

Distribution enclosures with industrial and domestic power outlets

	Equipment	Single-line diagram	Type	Order code
32 A type 	1 x 32 A 5P 6h 400 V EEC power outlet 1 x 16 A 5P 6h 400 V EEC power outlet 4 x power outlets with ground braid and child safety function. Inverter 3P+N 400V / 3 x 230 V Protection: 1 Diff-o-Jump type A 4P 40 A 300 mA 1 6 kA 3P+N 25 A Car. C. circuit breaker 1 x 6 kA 3P+N 16 A car. C. circuit breaker 4 x 6kA 2P 16 A car. C circuit breaker		AP61BWK32AH	4TBO890501N2100
63 A type 	1 x 63 A 5P 6h 400 V EEC power outlet 1 x 32 A 5P 6h 400 V EEC power outlet 1 x 16 A 5P 6h 400 V EEC power outlet 4 x power outlets with ground braid and child safety function. Inverter 3P+N 400V / 3 x 230 V Protection: 1 Diff-o-Jump type A 4P 63A 300 mA 1 6 kA 3P+N 50A Car. C. circuit breaker 1 x 6 kA 3P+N 32A car. C. circuit breaker 1 x 6 kA 3P+N 16 A car. C. circuit breaker 4 x 6kA 2P 16 A car. C circuit breaker		AP61BWK63AH	4TBO890502N2100

Distribution enclosures with industrial power outlets

	Equipment	Single-line diagram	Type	Order code
32 A type 	1 x 32 A 5P 6h 400 V EEC power outlet 1 x 16 A 5P 6h 400 V EEC power outlet 4 x 16 A 3P 6h 400 V EEC power outlets Inverter 3P+N 400V / 3 x 230 V Protection: 1 Diff-o-Jump type A 4P 40 A 300 mA 1 6 kA 3P+N 25 A Car. C. circuit breaker 1 x 6 kA 3P+N 16 A car. C. circuit breaker 4 x 6kA 2P 16 A car. C circuit breaker		AP61BWK32AIND	4TBO890505N2100

General purpose enclosures

VMS - Modular system



Applications

- Manufacturing
- Public works
- Controls for motors
- Electronic instrumentation
- Low-voltage distribution boards

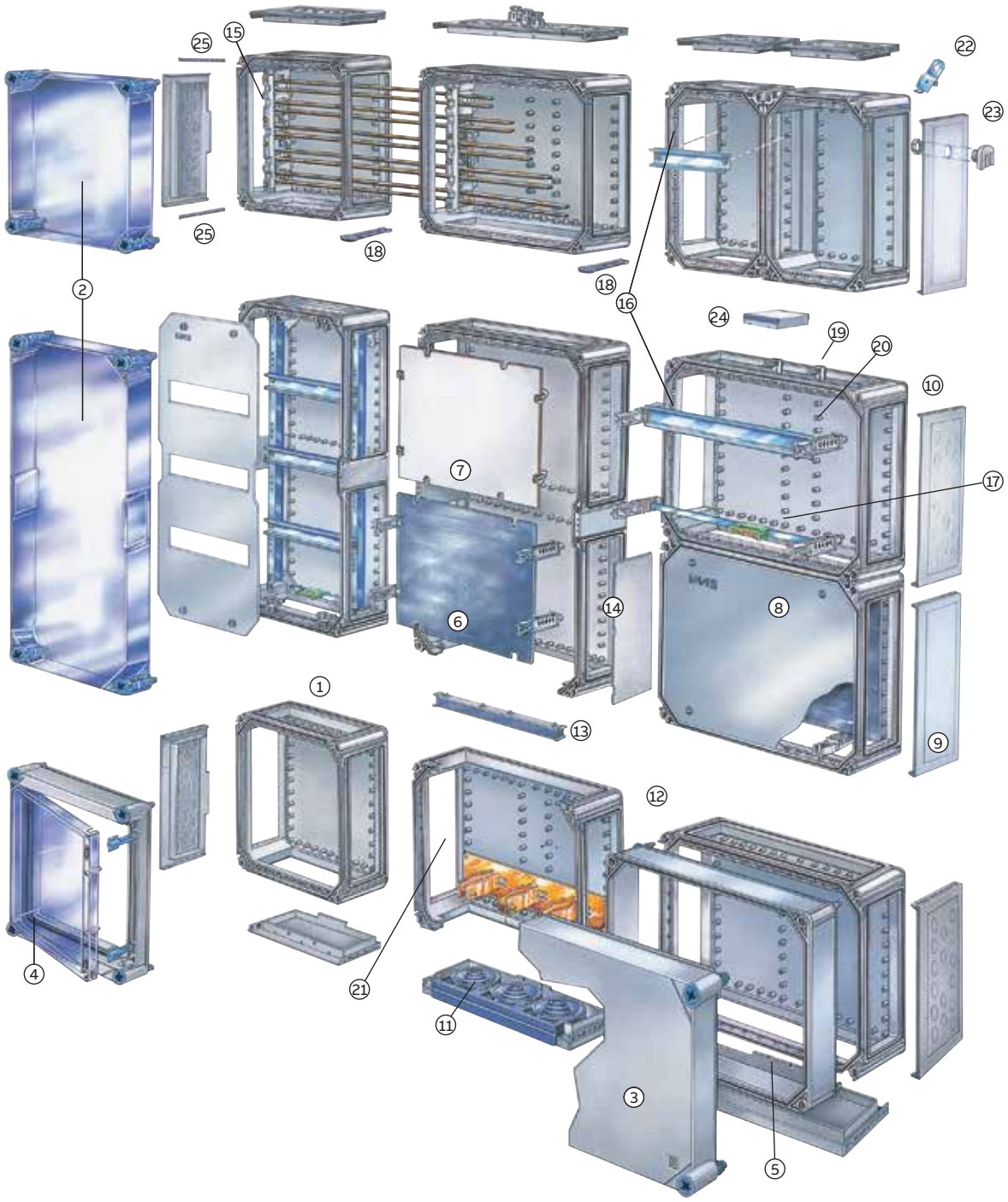
Standard: EN / IEC 61439-2, EN / IEC 60529, EN / IEC 62208

Specifications

- The range comprises five base dimensions, multiples of the 100 mm module.
- The ingenious and unique coupling system makes assembly simple and quick, for any combination of enclosures without the need for any tooling.
- The open base affords excellent options for cabling and installation for the connection, even when already coupled.
- The open sides can easily be fitted with smooth walls or walls with cutouts without impacting the protection ratings.
- Each large base is a multiple of smaller bases. The equipment securing points are inset by 25 mm increments, at the top and bottom of the base.
- The base and the closure plates are made from glass fiber-reinforced polycarbonate, halogen-free, self-extinguishing, light gray dyed in the mass (RAL 7035) color. The cover is fabricated from transparent or light gray (RAL 7035) polycarbonate.
- A comprehensive range of closure and mounting plates meeting a wide range of requirements for all installations.
- VMS enclosures are halogen-free.
- Enclosures offer maximized protection to users and equipment thanks to their double insulation ⧈ and IP65 protection rating in accordance with the EN/IEC 60529 standard.

General purpose enclosures

VMS - Modular system



1. Back box
2. Transparent cover
3. Opaque cover
4. Pivoting cover
5. Depth extension frame
6. Mounting plate: metal
7. Mounting plate: pertinax
8. Solid cover panel
9. Closure plate
10. Closure plate with punch-out
10. Closure plate with cable entry
12. Cable grip support
13. Cross member
14. Partition plate
15. Busbar support
16. DIN-profile
17. Mounting rail 12×2 mm
18. Coupling dowels
19. Coupling clamp
20. Universal support
21. Stress-relieving cable clamp
22. Fixing bracket
23. Air vent
24. Coupling set 2×220 mm
25. Locking key

General purpose enclosures

VMS - Features and benefits



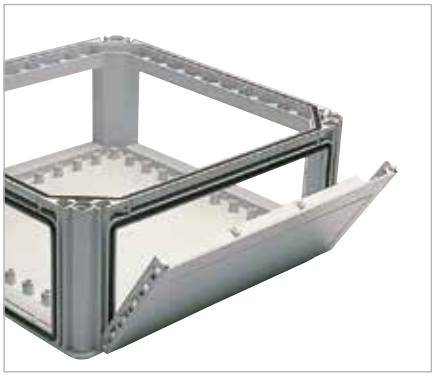
Modular dimensions in increments of 100mm in height and width, available in five sizes:
320×220 mm 320×320 mm
440×320 mm 640×320 mm
640×440 mm



Assorted covers: transparent, opaque, or hinged; common design and depth.



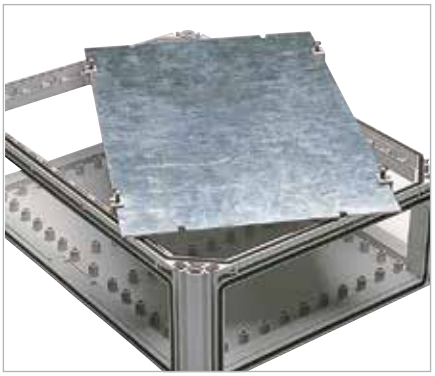
Quick coupling thanks to the vertical dowels inserted into the four corner slots of the boxes.



Combi or blind plates are snapped on from the outside and fixed by means of vertically sunk keys at the front of the base.



After installation, the end-plates fit perfectly into the side panels of the base.



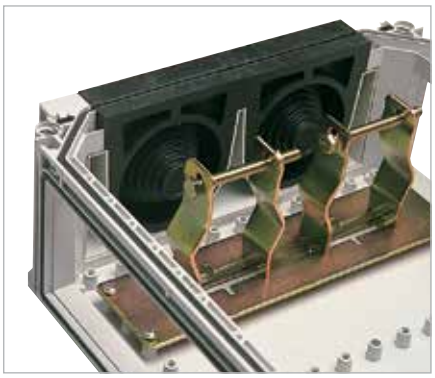
Mounting plates (2 mm in metal or 5mm in insulating material (pertinax), with mounting accessories.



Universal support for screwless and depth adjustable installation of component rails. This universal support is simply clicked over the base.



Removable bridges facilitate the introduction of large-section cables. After connecting the cables, insert the bridges (320 and 440 mm sides).

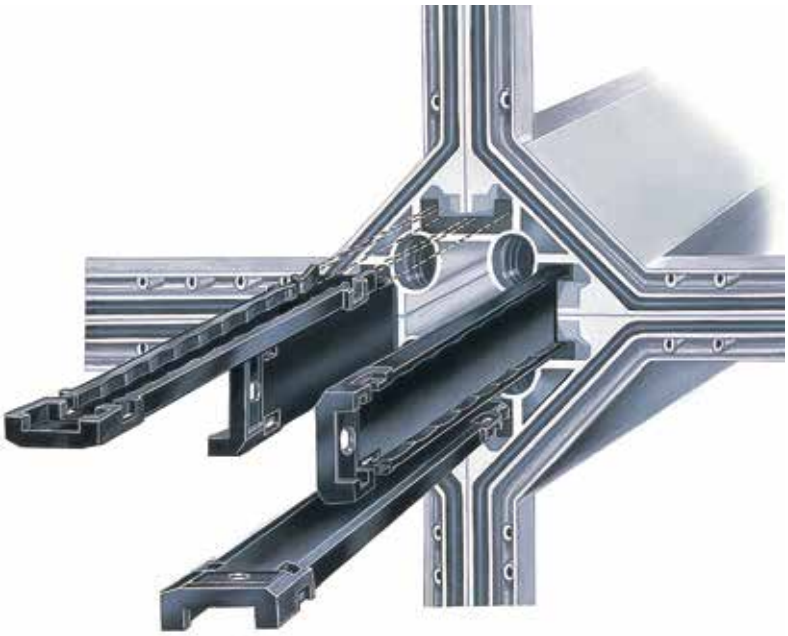


Universal cable entries and stress-relieving cable clamps to Ø 75 mm are attached to all base on side 320 mm (for 2 cables) and side 440 mm (for 3 cables).

General purpose enclosures

VMS - features and benefits

Vertical and horizontal stacking of enclosures
Enclosures are assembled using dowel pins mounted on the front end.
The dowel pins are universal for the entire range of VMS enclosures.



Installation of closure plates
After insertion from outside, the closure plate is locked in position by two dowel pins and pressed against the enclosure body join.

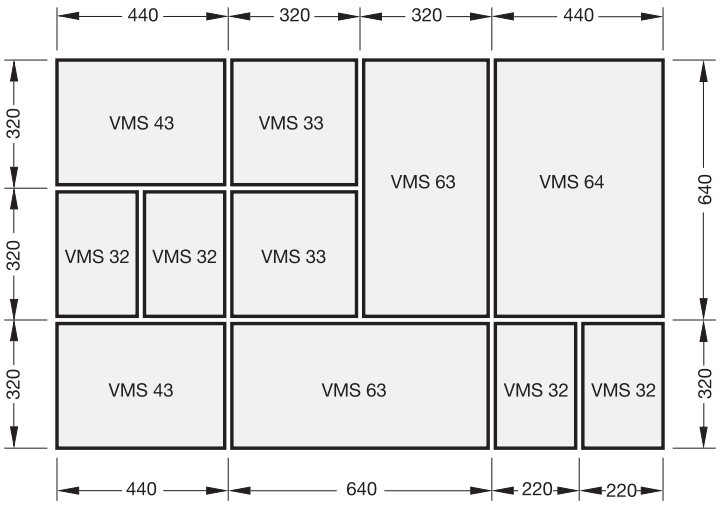


General purpose enclosures

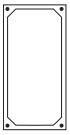
VMS - Technical data

Degree of protection according to IEC 60529	
individual and coupled	IP65
with coupling set 2 x 220	IP44
with extension frame	IP65
with cable entries	IP43
with bridges	IP55
Protection degree against external mechanical impacts according to EN 62262 and IEC 62262	
base + end plates + covers	IK08
hinged cover	IK06
Materials	
base + end-plates	Reinforced fiber-glass polycarbonate
covers	Polycarbonate
cover screws	Polyamide
gasket	PUR, neoprene
Temperature resistance	
materials	See page 158–159
continuous use	-20 °C up to +80 °C
Colours	
base + end-plates	RAL 7035
covers	RAL 7035 / transparent
Protection	Total isolation ⧈
Rated voltage	415 V AC / 1000 V DC
Rated insulation voltage	630 V AC
Rated current	max. 1250 A
Rated short time withstand current	max. 30 kA (0.3 s.)
Rated peak short-circuit current	max. 65 kA peak
Standards	EN 61439-2, DIN VDE 0660, IEC 61439-2

Optimal modular application

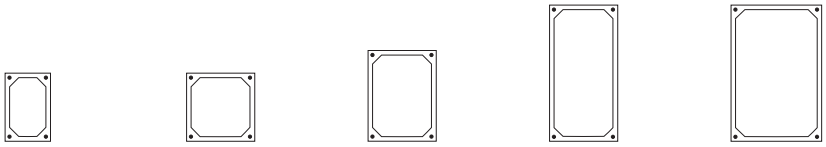


VMS - Range overview

IP65 VMS (modular)				
				
320×220×179 mm	320×320×179 mm	440×320×179 mm	640×320×179 mm	640×440×179 mm

General purpose enclosures

VMS - Modular system components



		Type	VMS 32	VMS 33	VMS 43	VMS 63	VMS 64
	**Base** With four open sides	H×W×D	320×220×130	320×320×130	440×320×130	640×320×130	640×440×130
		Type	V32BWNJ6	V33BWNJ6	V43BWNJ6	V63BWNJ6	V64BWNJ6
		Order code	4TBV853000C0100	4TBV853001C0100	4TBV853002C0100	4TBV853003C0100	4TBV853004C0100
		Emb.	4	2	2	1	1
	Cover transparent With slotted screws	H×W×D	320×220×50	320×320×50	440×320×50	640×320×50	640×440×50
		Type	V32CTNJ6	V33CTNJ6	V43CTNJ6	V63CTNJ6	V64CTNJ6
		Order code	4TBV853005C0100	4TBV853006C0100	4TBV853007C0100	4TBV853008C0100	4TBV853009C0100
		Emb.	4	2	2	1	1
	Cover solid With slotted screws	H×W×D	320×220×50	320×320×50	440×320×50	640×320×50	640×440×50
		Type	V32CBNJ6	V33CBNJ6	V43CBNJ6	V63CBNJ6	V64CBNJ6
		Order code	4TBV853010C0100	4TBV853011C0100	4TBV853012C0100	4TBV853013C0100	4TBV853014C0100
		Emb.	4	2	2	1	1
	Cover Hinged With double closure system Opening at 215°	H×W×D	-	320×320×50	440×320×50	-	-
		Type	-	V33CPNJ6	V43CPNJ6	-	-
		Order code		4TBV853015C0100	4TBV853016C0100		
		Emb.	-	2	2	-	-
	Depth extension frame With fixing screws	H×W×D	320×220×75	320×320×75	440×320×75	640×320×75	640×440×75
		Type	V32WDNJ6	V33WDNJ6	V43WDNJ6	V63WDNJ6	V64WDNJ6
		Order code	4TBV853030C0100	4TBV853031C0100	4TBV853032C0100	4TBV853033C0100	4TBV853034C0100
		Emb.	4	2	2	1	1
	Metal mounting plate, 2mm With mounting set	H×W×D	260×160	260×260	380×260	580×260	580×380
		Type	V32MWNJ6	V33MWNJ6	V43MWNJ6	V63MWNJ6	V64MWNJ6
		Order code	4TBV853068C0100	4TBV853069C0100	4TBV853070C0100	4TBV853071C0100	4TBV853072C0100
	Pertinax, 5mm With mounting set	H×W×D	260×160	260×260	380×260	580×260	580×380
		Type	V32IWNJ6	V33IWNJ6	V43IWNJ6	V63IWNJ6	V64IWNJ6
		Order code	4TBV853113C0100	4TBV853114C0100	4TBV853115C0100	4TBV853116C0100	4TBV853117C0100
		Emb.	1-10	1-10	1-10	1-10	1-10
	Solid cover plate Grey (RAL7035) Insulated material, 2mm With mounting set	H×W×D	301×201	301×301	421×301	621×301	621×421
		Type	V32PWNJ7	V33PWNJ7	V43PWNJ7	V63PWNJ7	V64PWNJ7
		Order code	4TBV853103C0100	4TBV853104C0100	4TBV853105C0100	4TBV853106C0100	4TBV853107C0100
		Emb.	1-10	1-10	1-10	1-10	1-10

General purpose enclosures

VMS - Accessories

Closure plates



Metric sizes	Type	Order code	Pack	Size
3 x M32 / M25 + 3 x M20	VX2EWNJ7	4TBV855029C0100	1/10	220
1 x M50 / M40 + 4 x M25 / M20	VX2EWNJ8	4TBV855030C0100	1/10	220
3 x M50 / M40 + 4 x M16	VX3EWNJ9	4TBV855032C0100	1/10	320
17 x M20	VX3EWNJ0	4TBV855033C0100	1/10	320
1 x M50 / M40 + 2 x M32 / M25 + 4 x M25 / M20	VX3EWNJA	4TBV855034C0100	1/10	320
12 x M25 / M20	VX3EWNJB	4TBV855035C0100	1/10	320
4 x M40 / M32 + 3 x M20	VX3EWNJC	4TBV855036C0100	1/10	320
1 x M40 / M32 + 16 x M25 / M20	VX4EWNJ8	4TBV855037C0100	1/10	440
1 x M50 / M40 + 2 x M40 / M32 + 8 x M25 / M20	VX4EWNJ9	4TBV855038C0100	1/10	440

Product	Type	Order code	Pack
Closure plates			
	Side (mm) 220		
	VX2EWNJ6	4TBV853017C0100	1/10
	Side (mm) 320		
	VX3EWNJ6	4TBV853020C0100	1/10
	Side (mm) 440		
	VX3EWNJ7	4TBV853027C0100	1/10
Plates with cable entries			
	Ø cable max.: 2 x 75 mm		
	Side (mm) 320		
	VX3EWNJ6	4TBV853082C0100	1/5
	Ø cable max.: 3 x 75 mm		
	Side (mm) 440		
	VX4EWNJ6	4TBV853083C0100	1/5
Cable grip support			
With a cable clamp Ø max.: 75mm			
	Side (mm) 320		
	VX3LWNJ6	4TBV853036C0100	1/5
	Side (mm) 440		
	VX4LWNJ6	4TBV853037C0100	1/5
Stress-relieving cable clamp			
For fixing on the cable clamp support			
	Ø cable max.: 75mm		
	VXXLWNJ6	4TBV853035C0100	1
Bridges			
Facilitate the connection of large-section cables			
	Side (mm) 320		
	VX3AWNJ6	4TBV853073C0100	1
	Side (mm) 440		
	VX4AWNJ6	4TBV853074C0100	1
Coupling dowels			
	For base coupling		
	VXXAWNJ8	4TBV853059C0100	20

Product	Type	Order code	Pack
Fixation pin			
	For end-plates (as a spare part)		
	VXXEWNJ6	4TBV853055C0100	10
Coupling set 2 x 220			
	To couple two sides of 220mm to one side of 440mm With mounting accessories		
	VXXAWNJA	4TBV853063C0100	1
Coupling clamp			
	For coupling in special cases		
	VXXAWNJ9	4TBV853062C0100	10
Universal support			
	To fit: - mounting plates and cover plates - copper rails 15 x 3 - copper rails 9 x 6.5 Barre plate 12 x 2mm		
	VX3UWNJ6	4TBV853060C0100	10
Marking strip			
	Self-adhesive		
	ZA10	2CPX038241R9999	1m

General purpose enclosures

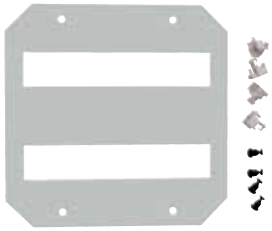
VMS - Accessories

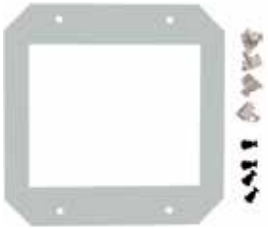
Product	Type	Order code	Pack
Symmetrical DIN-profiles			
Always supplied with two universal supports			
	Side (mm) 220		
	VX2AWNJ6	4TBV853094C0100	1
	Side (mm) 320		
	VX3AWNJ6	4TBV853095C0100	1
	Side (mm) 440		
	VX4AWNJ6	4TBV853096C0100	1
	Side (mm) 640		
	VX6AWNJ6	4TBV853269C0100	1
Mounting rails 12 x 2mm			
To fit connection terminal blocks. Always delivered with 2 universal supports.			
	Side (mm) 320		
	VX3AWNJ7	4TBV853098C0100	1
	Side (mm) 440		
	VX4AWNJ7	4TBV853099C0100	1
Partition plates			
For complete compartmentalization of coupled bases.			
	Side (mm) 220		
	VX2TWNJ6	4TBV853065C0100	1
	Side (mm) 320		
	VX3TWNJ6	4TBV853066C0100	1
	Side (mm) 440		
	VX4TWNJ6	4TBV853067C0100	1
Fixing lugs			
Set of 4 brackets with screws. - In stainless steel. - For external fixing points. - Direct fitting through the four corner shafts of the base. - To be installed prior to the extension frame or hinge installation. - Three optional mounting positions (0°, 45°, 90°).			
	VXXAWNJB	4TBV853064C0100	1
Air vent - IP45			
Installation of two air vents per box to obtain ventilation preventing the formation of condensation. Set of 2 pieces.			
	ACC818078	4TBJ818078R0100	1
Blanking plate			
For 12 modules			
	ZA1P5	2CPX062384R9999	5
	ZA1P50	2CPX062378R9999	50

Product	Type	Order code	Pack
Cover screws			
	Set of 4 pieces.		
	VXXCWNJ6	4TBV853057C0100	1
Hinge screws			
The base must bed before fixed prior to hinge installation. Set of 2 pieces.			
	VXXHWNJ6	4TBV853061C0100	1
Hinges made of molded material			
To mount the hinges, the cover and the base must be pierced. Drilling templates are provided. The kit includes: two hinges, screws, reinforcement plates, drilling gage and instructions. Set of 2 pieces.			
	VXXHWNJ7	4TBV853340C0100	1
Clip-in button			
For cover screws or hinge screws. Set of 4 pieces.			
	VXXAWNJ7	4TBV853058C0100	1
Clip-in button			
	For fixation in the base.		
	5 x 13		
	VXXAWNJC	4TBV853100C0100	50
	5 x 16		
	VXXAWNJD	4TBV853101C0100	50
	5x22		
	VXXAWNJA	4TBV853102C0100	50
	To fix the equipment onto the metal mounting plates.		
Screws for depth extension frame			
	Replacement parts		
	VXXDWNJ6	4TBV853056C0100	4
Fixation set for cover plate			
	Replacement parts		
	VXXPWNJ7	4TBV853053C0100	1
Fixation set for mounting plate			
	For metal or Pertinax Replacement parts		
	VXXIWNJ6	4TBV853054C0100	1

General purpose enclosures

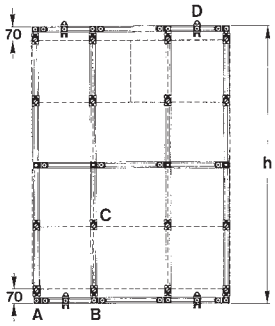
VMS - Accessories

Product	Type	Order code	Pack
Cover plate for DIN rail functions			
	VMS33 2 rows For V33BWDJ6		
	V33PWNJ9	4TBV853327C0100	1
	VMS43 2 horizontal rows For V43BWDJ7		
	V43PWNJ9	4TBV853330C0100	1
	VMS63 2 horizontal rows For V63BWDJ6		
	V63PWNJ0	4TBV853333C0100	1
	VMS63 4 rows For V63BWDJ6		
	V63PWNJ9	4TBV853332C0100	1
	VMS64 4 rows For V64BWDJ6		
	V64PWNJ8	4TBV853334C0100	1

Product	Type	Order code	Pack
Cover plate for fuse switch-disconnectors and for other components mounted on a 60mm rail system with screws.			
	VMS 32 (Cut-out 195 x 135 mm)		
	V32PWNJ8	4TBV853173C0100	1
	VMS 33 pour V33BWHE5 (Cut-out 195 x 235 mm)		
	V33PWNJ8	4TBV853174C0100	1
	VMS 63 pour V33BWHE5 (Cut-out 195 x 240 mm 2 pieces)		
	V63PWNJ8	4TBV853176C0100	1

General purpose enclosures

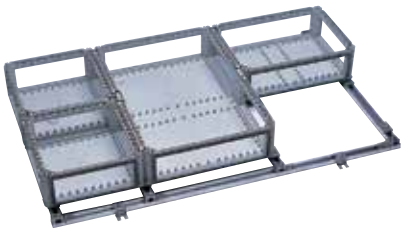
VMS - Supporting frame for wall mounting



- Fixing small units onto the wall can be done using the stainless steel mounting brackets.
- To transport and fix units with more than five enclosures, the use of a frame is essential.
- The frame includes at least 2 horizontal C-profiles (of an equal length to the width of the unit) and vertical C-profiles (equal to the number of rows +1).
- If the unit exceeds a height of 1000mm, three horizontal C-profiles are required.
- The vertical C-profiles are 140mm longer than the height of the assembled panel.
- The frame and the unit are built simultaneously.



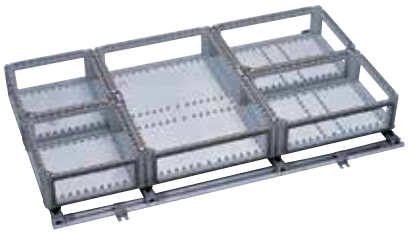
The horizontal and vertical C-profiles of the first row of enclosures are attached to each other by clamping brackets with sliding nuts. The following clamping brackets are mounted in the same way on the horizontal profile.



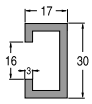
The following rows are mounted in the same way on the frame.

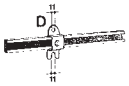


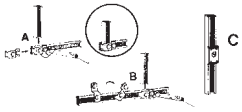
The first row of enclosures is then mounted on vertical profile with the clamping plates.



Frame and enclosure assemblies are mounted simultaneously.

Product	Type	Order code	Pack
C-Profile in aluminum			
	30 x 17 x 3mm Length = 3m		
	APACC851254	4TBO851254C0100	5

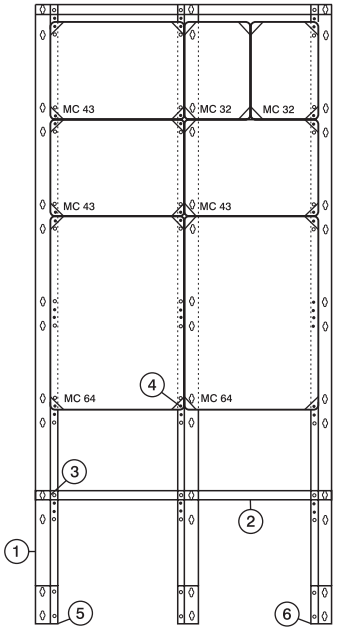
Product	Type	Order code	Pack
Fixation plate			
	Delivered with bolt and sliding nut. To fix the enclosures onto the vertical support profiles.		
	APACC851415	4TBO851415C0100	1

Product	Type	Order code	Pack
Clamping bracket			
	With bolts and two sliding nuts M8. To mount the upper and lower C-profiles to the vertical support-profiles		
	APACC851253	4TBO851253C0100	1

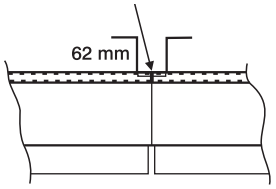
Product	Type	Order code	Pack
Clamping bracket			
	To fix the enclosures onto the fixation plate.		
	APACC851249	4TBO851249C0100	1

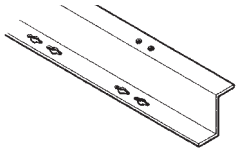
General purpose enclosures

VMS - Supporting frame for floor standing



Position of the vertical profile in case of transport separation and / or expansion





Z-Profile



C-Profile



M5×16 DIN 7500-C-TORX



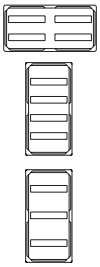
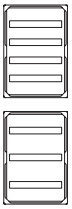
Stand support

Accessories

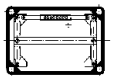
	Type	Order code	Pack
① Vertical Z-profile - RAL 9001			
Aluzinc - L = 2 360 mm, for 6 × 320	VXXFWNJ7	4TBV855515C0100	
Aluzinc - L = 2 040 mm, for 5 × 320	VXXFWNJ8	4TBV855516C0100	
Aluzinc - L = 1 080 mm, for 3 × 320	VXXFWNJ9	4TBV855517C0100	
Aluzinc - L = 760 mm, for 2 × 320	VXXFWNJ0	4TBV855518C0100	1
② Horizontal - C-profile			
Length = 3 000 mm	ACC811619	4TBC811619C0100	1
③ Fixation bracket			
Fixation bracket M5 × 16 mm to connect the vertical and horizontal profiles	VXXFWNJA	4TBV855519C0100	1
④ Screw			
M5×16 DIN 7500-C - TORX	VXXFWNJB	4TBV855520C0100	50
Stand support			
⑤ Left	VXXFWNJC	4TBV855521C0100	
⑥ Right	VXXFWNJD	4TBV855522C0100	1

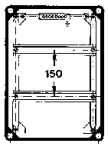
General purpose enclosures

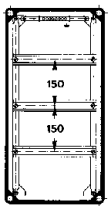
VMS - Modular insulated enclosures

Type	VMS 32	VMS 33	VMS 43	VMS 63	VMS 64
Enclosures for DIN equipment Without cover and combi end-plates for assembly of modular units. Includes: - base with four open sides - mounting frame with earth-rail and cover plate - earth terminal					
DIN rail distance 125mm	(horizontal)		(horizontal)	(horizontal)	(vertical)
	14 modules	28 modules	40 modules	56 modules	80 modules
Type	V32BWDJ6	V33BWDJ6	V43BWDJ7	V63BWDJ6	V64BWDJ6
Order code	4TBV853125C0100	4TBV853127C0100	4TBV853266C0100	4TBV853267C0100	4TBV853268C0100
			(vertical)	(vertical)	
			42 modules	56 modules	
Type			V43BWDJ6	V63BWDJ6	
Order code			4TBV853129C0100	4TBV853131C0100	



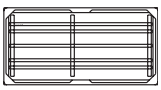






Enclosures for DIN equipment Includes: • base with four closed sides • with combi end-plates: at the top: 17 x M20 at the bottom: 1 x M50 / 40 + 2 x M40 / 32 + 8 x M25 / 20 • bare frame fitted with an earth terminal and cover plate • transparent pivoting cover (VMS 43) • transparent cover, attached with screws (VMS 32 - VMS 63)	320 x 220 x 179 mm	440 x 320 x 179 mm	640 x 320 x 179 mm
	14 modules	28 modules	42 modules
Type	V32BTDJ7	V43BTDJ6	V63BTDJ7
Order code	4TBV853159C0100	4TBV853160C0100	4TBV853161C0100





Modular insulated enclosures with busbars Without cover plates and entry plates.* With 250A / 400A Rail system with 5 poles. Without terminals.*	5P, 250 A	5P, 250 A
	MFR352	MFR652
Type	V33BWBE5	V63BWBE5
Order code	4TBV853252C0100	4TBV853253C0100

* = for covers and plates see selection table at pages 24/27 and 24/28

General purpose enclosures

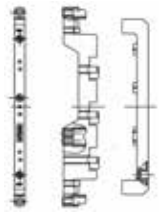
VMS - Modular insulated enclosures

Type		VMS 32	VMS 33	VMS 43	VMS 63	VMS 64
Metering enclosures Without cover and end-plates With installed meter board incl. meter fixation screws For covers and plates see selection table on pages 24/27 and 24/28						
				440 x 320 x 179 mm	640 x 320 x 179 mm	
	Type			V43BWKJ6	V63BWKJ6	
	Order code			4TBV853250C0100	4TBV853251C0100	

General purpose enclosures

VMS - Busbar system

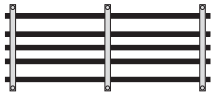
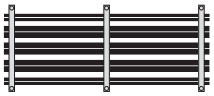
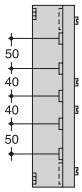
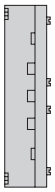
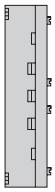
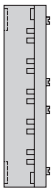
Accessories

Product	Type	Order code	Pack
Flat configuration 125A / 250A - Parallel arrangement 250A			
	VXXSWNE5	4TBV853075C0100	10
Flat configuration 125A / 250A - Parallel arrangement 400A			
	VXXSWNF5	4TBV853076C0100	10
Flat configuration 60mm			
	160 up to 630A		
	VXXSW65	4TBV828322C0100	10

Product	Type	Order code	Pack
Parallel arrangement 630A / 1100A			
	5 pole 100%		
	VXBB855177N	4TBV855177C0100	10
Rail connector			
	1P, 630 A		
	VXXRWNG1	4TBV783267C0100	1

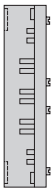
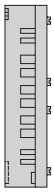
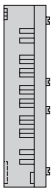
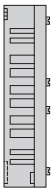
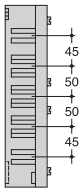
General purpose enclosures

VMS - Busbar system 125 A–1 250 A

	Flat configuration			Parallel arrangement
				
				
Rated nominal current in	125/160 A	250A	250A	250A
Busbar supports				
Type	VXXSWNE5			
Order code	4TBV853075C0100			
Pack	1	1	1	1
Center distance of phase bars (mm)	40	40	40	50
Distance between N or ⏚ and the closest phase (mm)	50	50	50	45
Busbars				
Number and dimensions of phase bars (L1 - L2 - L3)	1 x (12 x 5)	1 x (12 x 10)	2 x (12 x 5)	2 x (12 x 5)
Number and dimensions of bars N-⏚	1 x (12 x 5)	1 x (12 x 5)	1 x (12 x 5)	2 x (12 x 5)
Section by phase (mm²)	60	120	120	120
Section by N - ⏚ (mm²)	60	60	60	120
Specifications				
Center distance of busbar supports (mm)	320	320	320	320
Dynamic short-circuit resistance (kA peak)	40	40	40	30
Dynamic short-circuit resistance (kA. eff.)	20	20	20	15

General purpose enclosures

VMS - Busbar system 125 A–1 250 A

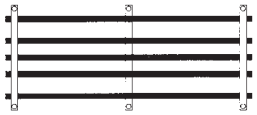
400A	630A	630A	1100A	1100A
VXXSWNF5		VXXSWNI5		
4TBV853076C0100		4TBV853077C0100		
1	1	1	1	1
50	50	50	50	50
45	45	45	45	45
2x(20x5)	2x(20x10)	4x(20x5)	2x(30x10)	4x(30x5)
2x(12x5)	2x(20x5)	2x(20x5)	2x(30x5)	2x(30x5)
200	400	400	600	600
120	200	200	300	300
320	320/250	320/250	320	320
42	43.6/52.5	43.6/52.5	53	52.5
20	20.8/25	20.8/25	25	25

General purpose enclosures

VMS - Busbar system 125 A–1 250 A

Flat configuration

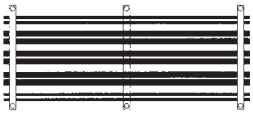
Product				Type	Order code	Pack
Cable-bar connection sockets 12 × 5 / 12 × 10						
Main bar width	Cable section (mm²)		Clamp width X (mm)	Cable clamp		
	Min.	Max.				
5	1.5	16	11.5	APACC858026	4TBO858026C0100	20
5	1.5	35	15.5	APACC858028	4TBO858028C0100	10
5	16	70	20.5	APACC858032	4TBO858032C0100	10
5	16	120	23.5	APACC858033	4TBO858033C0100	10
10	1.5	16	11.5	APACC858027	4TBO858027C0100	20
10	1.5	35	15.5	APACC858029	4TBO858029C0100	10
10	16	70	20.5	APACC858030	4TBO858030C0100	10
10	16	120	30.5	APACC858031	4TBO858031C0100	10

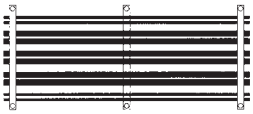


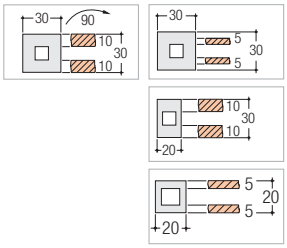
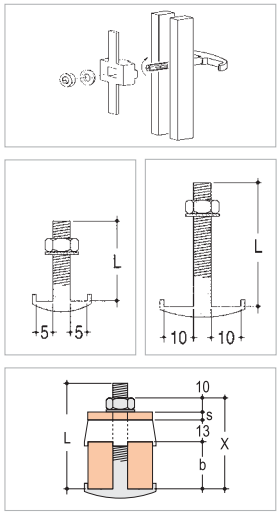


General purpose enclosures

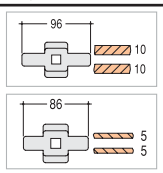
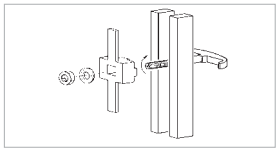
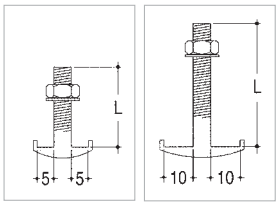
VMS - Parallel busbar arrangement





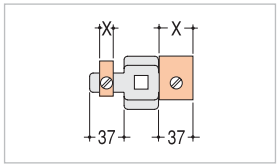
	Type	Order code	Pack
Busbars with horizontal fixation			
Connecting blocks			
	For flat copper with widths of 25, 30 or 40		
	APACC858003	4TBO858003C0100	10
	For flat copper with widths of 20 or 25		
	APACC858004	4TBO858004C0100	10
	For flat copper with widths of 15 or 20		
	APACC858005	4TBO858005C0100	10
Anchor bolts			
For 5mm thick bars			
	M10x60		
	APACC858008	4TBO858008C0100	10
	M10x80		
	APACC858010	4TBO858010C0100	10
	For 10mm thick bars		
	M10x60		
	APACC858013	4TBO858013C0100	10
	M10x80		
	APACC858011	4TBO858011C0100	10

b	s	x	L
12	5	40	60
12	10	45	60
20	5	48	60
20	10	53	60
30	5	58	60
30	10	63	80

	Type	Order code	Pack
Cable-bar connection sockets - 16-35-70-120mm²			
Wing contact block			
			
	APACC858006	4TBO858006C0100	10
	APACC858007	4TBO858007C0100	10
Anchor bolts			
For 5mm thick rails			
	M10x60		
	APACC858008	4TBO858008C0100	10
	M10x80		
	APACC858010	4TBO858010C0100	10
	For 10mm thick rails		
	M10x60		
	APACC858013	4TBO85801C0100	10
	M10x80		
	APACC858011	4TBO858011C0100	10

b	s	x	L
12	-	42	60
12	5	47	60
12	10	52	60
20	-	50	60
20	5	55	60
20	10	60	60
30	-	60	60
30	5	65	80
30	10	70	80

Koppelkit IP65 / IP54				
Cable clamps for fixing to the contact block wings				
Cable section mm²) Min.	Cable section mm²) Max.	Clamp width X (mm)		
1.5	16	11.5	APACC858026	4TBO858026C0100 20
1.5	35	15.5	APACC858028	4TBO858028C0100 10
16	70	20.5	APACC858032	4TBO858032C0100 10
16	120	23.5	APACC858033	4TBO858033C0100 10



Legend:
b: height of rectangular bars
s: thickness of the rectangular bar or cable-shoe or flat copper
x: minimum bolt length required
L: length of fitting hook bolt or bolt with rectangular head

General purpose enclosures

ARIA - Universal polyester enclosures



ARIA

Applications

- Manufacturing
- Breweries
- Steelworks
- Public works
- Petro-chemical industry
- Road signage
- Temporary connections
- Telecoms
- Solar energy applications

Standard: EN/IEC 61439-2, EN/IEC 60529, EN/IEC 62262, EN/IEC 62208

Standards/Certification

- UL types 3, 3R, 3S, 4, 4X, 12 and 13 Available upon request.

- CSA types 3, 3R, 3S, 4, 4X, 12 and 13 Available upon request.

LR - Lloyd's Register of Shipping (IP66 versions with center lock)

Specifications

- Seven different types, from 315 x 215 to 1035 x 835 mm.
- Enclosures made from light gray polyester (RAL 7035), hot press molded, glass fiber-reinforced, dyed in the mass.
- The enclosure is equipped with 4 threaded rods and 4 nuts for securing a mounting plate or frame and is equipped as standard with a double-bit key lock.
- Maximum protection for the user and equipment thanks to its total insulation ⧈ and IP65/66 protection rating in accordance with EN/IEC 62208 (IP54 for enclosures with inspection windows).
- IK08 protection rating against external mechanical impacts in accordance with EN/IEC 62208 (IK07 for cabinets with windows).
- Polyester boxes can resist temperatures of up to 70°C under continuous operation and peak temperatures of up to 130 °C.
- Self-extinguishing polyester, halogen-free.
- Insulation voltage U_i = 1000 V ac and 1500 V dc



General purpose enclosures

ARIA - Universal polyester enclosures

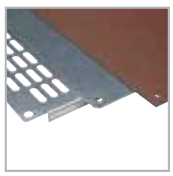
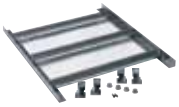


1. Monobloc base
2. Detachable door, left-hand or right-hand opening
3. No water stagnation on the seal
4. Mounting point in the door
5. Front plate:
   - polyester RAL 7035
   - hinged
   - detachable
   - stand-alone
   -sealable
   - quick installation
   3-point closure lock
6. Interchangeable cylinders
7. Individual connection busbars
8. Mounting frame:
   - removable
   - perforated
   - reinforced DIN rails
9. Integral hinges 180° pivoting door
10. Mounting plate
    - metal
    - pertinax
    - perforated
11. Mounts directly onto the wall or via external mounting lugs made from stainless or synthetic material

General purpose enclosures

ARIA - Universal polyester enclosures






	Type		ARIA 32	ARIA 43
	Individual front plates H x W x D		315 x 215 x 170	415 x 315 x 170
	Enclosure ▣ IP65 - IK08. With one or two double-bit, 3 mm locks	Type	-	AR043P13(1)
		Order code		4TBA831035C0100
	two-point closure			
	Enclosure with inspection window ▣ IP54 - IK07 With one or two double-bit, 3 mm locks	Type	-	AR043T33
		Order code		4TBA831128C0100
				single-point closure
				AR043P33
	Enclosure ▣ IP66 - IK08 With 1 double-bit, 3 mm center lock	Type	AR032P13(1)	
		Order code	4TBA831025C0100	4TBA831036C0100
	three-point closure mechanism			
	Enclosure with inspection window ▣ IP54 - IK07 with 1 double-bit, 3mm center lock	Type	-	AR043T23
		Order code		4TBA831815C0100
				AR043H33
	Enclosure ▣ IP66 - IK08 With 1 security lock handle	Type	AR032T13	
		Order code	4TBA831307C0100	4TBA831034C0100
	Mounting plates			
	Dimensions H x W		250 x 150	350 x 250
	Pertinax 5 mm	Type	AR032I03	AR043I03
		Order code	4TBA831027C0100	4TBA831038C0100
	2 mm Sendzimir galvanized steel panel	Type	AR032M03	AR043M03
		Order code	4TBA831026C0100	4TBA831037C0100
	1.5 mm perforated metal panel	Type	AR032Q03	AR043Q03
		Order code	4TBA831332C0100	4TBA831333C0100
				AR043D03
	Mounting frame	Type	AR032D03	
		Order code	4TBA831030C0100	4TBA831041C0100
	Rows		2	2
	Modules		12	24
	Full cover plates			
	Solid	Type	AR032C03	AR043C03
		Order code	4TBA831028C0100	4TBA831039C0100
	With openings for DIN rail equipment	Type	AR032S03	AR043S03
		Order code	4TBA831029C0100	4TBA831040C0100
	With openings for individual modular front plates	Type	-	AR043E03
		Order code		4TBA831790C0100
	Number of individual modular front plates possible		-	2
	Note: the ARIA 43 and 86 cabinets and ARIA 64 and 108 cabinets contain the same modular closure plates (Closed and with openings)			
	Individual front plates H x W		-	150 x 239
	IP20 individual modular protective plates (PVC)			
	Solid	Type	-	AR043N03
		Order code		4TBA831797C0100
	With openings for DIN rail equipment	Type	-	AR043R03
		Order code		4TBA831796C0100
	Modules		-	12

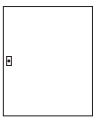
(1) single-point closure
Pack = 1

General purpose enclosures

ARIA - Universal polyester enclosures





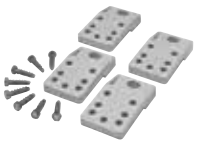
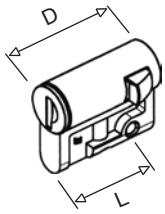


ARIA 54	ARIA 64	ARIA 75	ARIA 86	ARIA 108
515x415x230	615x415x230	735x535x270	835x635x300	1035x835x300
AR054P23	AR064P23	AR075P23	AR086P23	AR108P23
4TBA831809C0100	4TBA831810C0100	4TBA831811C0100	4TBA831059C0100	4TBA831073C0100
AR054T23	AR064T23	AR075T23	-	-
4TBA831812C0100	4TBA831813C0100	4TBA831814C0100		
two-point closure	two-point closure	two-point closure		
AR054P33	AR064P33	AR075P33	AR086P33	AR108P33
4TBA831052C0100	4TBA831065C0100	4TBA831081C0100	4TBA831098C0100	4TBA831112C0100
AR054T33	AR064T33	AR075T33	AR086T33	AR108T33
4TBA831129C0100	4TBA831130C0100	4TBA831131C0100	4TBA831132C0100	4TBA831133C0100
AR054H33	AR064H33	AR075H33	AR086H33	AR108H33
4TBA831051C0100	4TBA831064C0100	4TBA831080C0100	4TBA831097C0100	4TBA831111C0100
450 x 350	550 x 350	650 x 450	750 x 550	950 x 750
AR054I03	AR064I03	AR075I03	AR086I03	AR108I03
4TBA831054C0100	4TBA831067C0100	4TBA831083C0100	4TBA831100C0100	4TBA831114C0100
AR054M03	AR064M03	AR075M03	AR086M03	AR108M03
4TBA831053C0100	4TBA831066C0100	4TBA831082C0100	4TBA831099C0100	4TBA831113C0100
AR054Q03	AR064Q03	AR075Q03	AR086Q03	AR108Q03
4TBA831334C0100	4TBA831335C0100	4TBA831336C0100	4TBA831337C0100	4TBA831338C0100
AR054D03	AR064D03	AR075D03	AR086D03	AR108D03
4TBA831057C0100	4TBA831070C0100	4TBA831086C0100	4TBA831103C0100	4TBA831117C0100
3	3	4	4	5
54	54	88	96	180
AR054C03	AR064C03	AR075C03	AR086C03	AR108C03
4TBA831055C0100	4TBA831068C0100	4TBA831084C0100	4TBA831101C0100	4TBA831115C0100
AR054S03	AR064S03	AR075S03	AR086S03	AR108S03
4TBA831056C0100	4TBA831069C0100	4TBA831085C0100	4TBA831102C0100	4TBA831116C0100
AR054E03	AR064E03	AR075E03	AR086E03	AR108E03
4TBA831791C0100	4TBA831792C0100	4TBA831793C0100	4TBA831794C0100	4TBA831795C0100
3	3	4	8	10
150 x 343	150 x 343	150 x 239	150 x 239	150 x 343
AR054N03	AR064N03	AR075N03	AR043N03	AR064N03
4TBA831799C0100	4TBA831801C0100	4TBA831803C0100	4TBA831797C0100	4TBA831801C0100
AR054R03	AR064R03	AR075R03	AR043R03	AR064R03
4TBA831798C0100	4TBA831800C0100	4TBA831802C0100	4TBA831796C0100	4TBA831800C0100
17	18	22	12	18

General purpose enclosures

ARIA - Universal polyester enclosures - Accessories

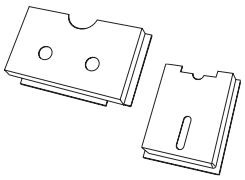
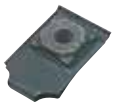
Product	Type	Order code	Pack
Locks			
With interchangeable cylinders (Supplied with 1 key)			
	3mm		
	AR831008	4TBA831008C0100	1
	8mm		
	AR831005	4TBA831005C0100	1
	8mm		
	AR831006	4TBA831006C0100	1
	11mm		
	AR831007	4TBA831007C0100	1
	Other locks: please contact us.		
Handles			
① 	Neutral handle (without lock)		
	AR831003	4TBA831003R0100	1
	With lock and 2 keys V2432E		
	AR831004	4TBA831004R0100	1
	With lock and 2 keys 1242E		
	AR831180	4TBA831180R0100	1
	With lock and 2 keys 405E		
	AR831152	4TBA831152C0100	1
	With lock and 2 keys 455E		
	AR831153	4TBA831153C0100	1
	Handle for lock, 45 mm semi-cylindrical profile		
② 	AR831821	4TBA831821C0100	1
	For replacing a double-bit lock or other locks for Aria 54, a mechanical adaptation of the door openings is required.		
	Handle for lock with semi-cylindrical profile and locking by padlock		
③ 	AR831822	4TBA831822C0100	1
	For replacing a double-bit lock or other locks for Aria 54, a mechanical adaptation of the door openings is required.		

Product	Type	Order code	Pack
Fixing lugs[1]			
	In 304 grade stainless steel Set of 4 pieces		
	ARACCB03	4TBA831000C0100	1
	Set of 4 polyamide pieces		
	ARACCB13	4TBA831001C0100	1
	(1) not supplied as standard		
Hinge supports for inner door			
	Set of 2 pieces, for front plate		
	AR831010	4TBA831010C0100	1
	A lower door may be installed together with a closed front plate.		
Profile half cylinder locks			
Standard: D = 40 mm - L = 30.5 mm			
	With 2 keys V2432-E		
	PS832030	4TBP832030C0100	1
	Replacement keys for 832030		
	PS832741	4TBP832741R0100	2
	With 2 keys 1242-E		
	PS832031	4TBP832031C0100	1
	With 2 keys 455-E		
	PS832465	4TBP832465C0100	1
	With 2 keys 405-E		
	PS832466	4TBP832466R0100	1
	With a replacement key, 8 mm		
	PS832032	4TBP832032C0100	1
	With an 8 mm triangular key		
	PS832033	4TBP832033C0100	1
	With an 11 mm triangular key		
	PS832034	4TBP832034C0100	1
	With 3 mm double-bit key		
	PS832029	4TBP832029C0100	1
Vents			
(IP44 if fitting in the double corner)			
	Set of 2 ventilation grilles. Bore hole Ø 34.9 mm		
	AR831009	4TBA831009C0100	1
	See Sect. Cabinet ventilation for additional ventilation options.		

General purpose enclosures

ARIA - Universal polyester enclosures - Accessories

Product	Type	Order code	Pack
Pole mounting assembly			
	For ARIA 54/64		
	AR891608	4TBA891608C0100	1
	Fixing lugs in stainless steel included. Steel strips not included.		
Connection busbars			
6 x 10 mm² + 2 x 16 mm² clip onto 12 x 2 mm rail			
	Phase busbar - black		
	FORSTTL	4TBR610185C0200	4
	Ground busbar - green		
	FORSTTPE	4TBR610186C0200	4
	Neutral busbar - blue		
	FORSTTN	4TBR610187C0200	4
Self-adhesive drip molding profile			
	Length 415 mm for ARIA 54 and 64		
	AR831530	4TBA831530C0100	1
	May also be used for ARIA 32 and 43 after cutting out.		
	Length 835 mm for ARIA 108		
	AR831533	4TBA831533C0100	1
	May also be used for ARIA 75 and 86 after cutting out.		

Product	Type	Order code	Pack
Module covers			
	Sectionable by 1/2 module		
	12 modules		
	FORSTBP4	4TBR610142C0200	5
	4 modules		
	FORSTBP500	4TBR610484C0200	500
Label holders			
	Adhesive		
	ZA10	4TBC851321C0100	1m
Document pocket			
	DIN A4 - L x H = 325 x 180 mm		
	AR811516	4TBC811516C0100	1
	DIN A5 - L x H = 155 x 225 mm		
	PS832000	4TBP832000C0100	1
Slide nuts			
For perforated mounting plate			
	M4		
	AR831328	4TBA831328C0100	50
	M5		
	AR831329	4TBA831329C0100	50
	M6		
	AR831330	4TBA831330C0100	50
Hinge pins			
	Length 66 mm for ARIA 32		
	AR831653	4TBA831653C0100	20
	Length 100.5 mm for ARIA 43, 54 and 64		
	AR831652	4TBA831652C0100	20
	Length 131.5 mm for ARIA 75, 86 and 108		
	AR831953	4TBA831953C0100	10

General purpose enclosures

PolySafe - Multi-function polyester enclosures



PolySafe

Standard: EN/IEC 60529, EN/IEC 61439-2, EN/IEC 62208, EN/IEC 62262

Specifications

- 16 standard dimensions (from 500 x 500 mm to 1250 x 1000 mm) with a depth of 320 mm.
- Enclosures supplied assembled (empty or equipped).
- IP55 and IP65 high protection ratings in accordance with EN/IEC 60529 and IK10 (20J) in accordance with EN/IEC 62262.
- Protection rating for enclosure with inspection window: IP54-IK07.
- Material: polyester reinforced with glass fiber, halogen-free, hot press molded and self-extinguishing.
- Color: RAL 7035 gray, dyed in the mass.
- Designed for wall, floor or pedestal mounting.
- Option of stacking vertically or horizontally widthwise or depthwise.
- Total insulation ⧈.
- 5-point door closure mechanism.
- Optional version on a DIN base.
- Insulation voltage Ui = 1000 V ac and 1500 V dc
- Product is easy to recycle: no molded metal parts.

Standards/Certification

- Single-door enclosure: type 3, 3R, 3S, 4, 4X, 12, 12K and 13
- Double-door enclosure: type 3R
- Coupled enclosures: type 3, 3R, 3S, 4, 4X, 12, 12K and 13 Available upon request.

LR - Lloyd's Register of Shipping

Conditions for use

Polyester boxes can withstand temperatures between -25°C et +70°C under continuous operation and peak temperatures of up to 130°C.



General purpose enclosures

PolySafe - Multi-function polyester enclosures







Applications

- Commercial
  Leisure (marketplaces, camps, leisure ports, attraction parks, etc.), gas stations, carwashes, laundromats, industrial laundries, construction site enclosures, etc.

- Industrial
  Ship building, mining, automobile industry, paper industry, sugar refinery, food industry, distilleries, petrochemical industry, heavy industry, processing, surveillance systems, etc.

- Utilities
  Water treatment sites, gray water processing. telecommunications, traffic signaling, traffic management, public transport, energy distribution (electricity, gas, water), cable television, public lighting, railways, etc.







General purpose enclosures

PolySafe - Universal polyester enclosures

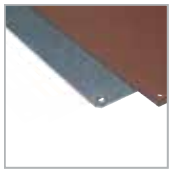








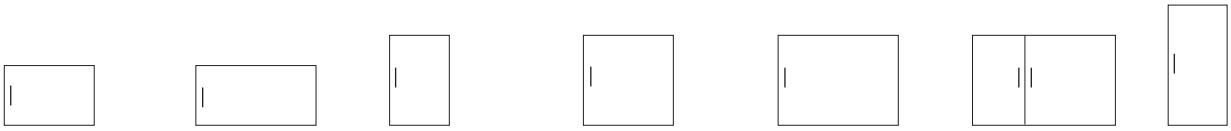




Depth = 320 mm		PS 220
Factory-assembled enclosures Equipped with AISI 304 stainless steel fixing lugs and handle (lock not supplied)		
Dimensions (H x L)		500 x 500
Enclosure with **IP55** solid door	**Type**	PS833194
	Order code	4TBP833194N0100
Enclosure with **IP65** solid door	**Type**	PS220P63
	Order code	4TBP833000C0100
Enclosure with **IP54** inspection window (polycarbonate inspection window)	**Type**	PS220T43
	Order code	4TBP833850C0100
Weight (kg)		16
IP65 depth extension kit For increasing the standard depth of the enclosure from 320 mm to 640 mm. The kit comprises 2 side panels, 1 upper panel, 1 lower panel, 2 rear open panels (frames).	**Type**	PS220D63
	Order code	4TBP833584C0100
Hoods Necessary if efficient (IP44) ventilation is required, includes drilled holes in the upper panel and the use of fins.	**Type**	PS200R03
	Order code	4TBP833566C0100
The basic enclosure is IP65 rated, the hood is optional. If larger widths or depths are required, please contact us.		
Base for ground installation The enclosure and base are anchored together into the ground. H = 65 mm	**Type**	PS200Z03
	Order code	4TBP833574C0100
Adaptor frame for DIN-base mounting The enclosure and adaptation kit are anchored together onto the DIN socket (polyester)	**Type**	-
	Order code	
DIN base Polyester - RAL 7035	**Type**	EH3SEXEI
	Order code	4TBE843204R0100
Mounting plates Dimensions (H - 110 mm x L - 110 mm)		
2 mm Sendzimir galvanized sheet metal	**Type**	PS220M03
	Order code	4TBP833500C0100
Pertinax 5 mm	**Type**	PS220I03
	Order code	4TBP833508C0100
Pertinax 10mm	**Type**	-
	Order code	

General purpose enclosures

PolySafe - Universal polyester enclosures

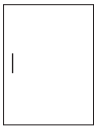


PS 230	PS 240	PS 320	PS 330	PS 340	PS 352	PS 420
500 x 750	500 x 1000	750 x 500	750 x 750	750 x 1000	750 x 1250	1000 x 500
PS833195	-	PS833196	PS833197	PS833198	PS833235 (*)	PS833199
4TBP833195N0100		4TBP833196N0100	4TBP833197N0100	4TBP833198N0100	4TBP833235N0100	4TBP833199N0100
PS230P63	PS240P63	PS320P63	PS330P63	PS340P63	PS352P63	PS420P63
4TBP833004C0100	4TBP833193C0100	4TBP833008C0100	4TBP833012C0100	4TBP833016C0100	4TBP833020C0100	4TBP833024C0100
PS230T43	-	PS320T43	PS330T43	PS340T43	PS352T43	PS420T43
4TBP833851C0100		4TBP833852C0100	4TBP833853C0100	4TBP833854C0100	4TBP833855C0100	4TBP833856C0100
19	25	20	25	30	38	25
PS230D63	-	PS320D63	PS330D63	PS340D63	PS350D63	PS420D63
4TBP833585C0100		4TBP833586C0100	4TBP833587C0100	4TBP833588C0100	4TBP833589C0100	4TBP833590C0100
PS300R03	PS400R03	PS200R03	PS300R03	PS400R03	PS500R03	PS200R03
4TBP833568C0100	4TBP833570C0100	4TBP833566C0100	4TBP833568C0100	4TBP833570C0100	4TBP833572C0100	4TBP833566C0100
PS300Z03	PS400Z03	PS200Z03	PS300Z03	PS400Z03	PS500Z03	PS200Z03
4TBP833575C0100	4TBP833576C0100	4TBP833574C0100	4TBP833575C0100	4TBP833576C0100	4TBP833577C0100	4TBP833574C0100
PS300A03	PS400A03	-	PS300A03	PS400A03	-	-
4TBP833582C0100	4TBP833583C0100		4TBP833582C0100	4TBP833583C0100		
EH3SE1EI	EH3SE2EI	EH3SEXEI	EH3SE1EI	EH3SE2EI	-	EH3SEXEI
4TBE843206R0100	4TBE843207R0100	4TBE843204R0100	4TBE843206R0100	4TBE843207R0100		4TBE843204R0100
PS320M03	PS420M03	PS320M03	PS330M03	PS430M03	PS530M03	PS420M03
4TBP833501C0100	4TBP833503C0100	4TBP833501C0100	4TBP833502C0100	4TBP833504C0100	4TBP833506C0100	4TBP833503C0100
PS320I03	PS420I03	PS320I03	PS330I03	PS430I03	PS530I03	PS420I03
4TBP833509C0100	4TBP833511C0100	4TBP833509C0100	4TBP833510C0100	4TBP833512C0100	4TBP833514C0100	4TBP833511C0100
-	-	-	-	-	PS833385	-
					4TBP833385N0100	

(*) on request

General purpose enclosures

PolySafe - Universal polyester enclosures

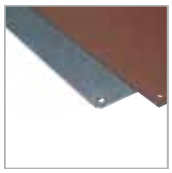








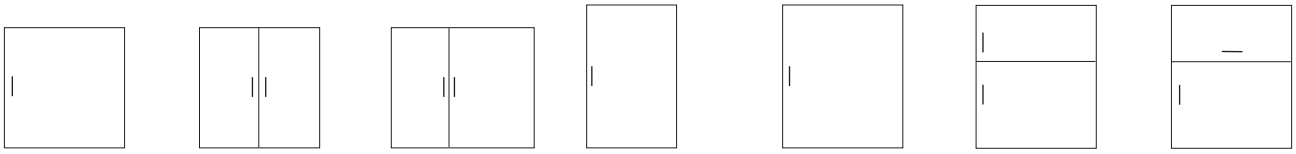




Depth = 320 mm		PS 430
Factory-assembled enclosures Equipped with AISI 304 stainless steel fixing lugs and handle (lock not supplied)		
Dimensions (H x L)		1000 x 750
Enclosure with **IP55** solid door	**Type**	PS833204
	Order code	4TBP833204N0100
Enclosure with **IP65** solid door	**Type**	PS430P63
	Order code	4TBP833028C0100
Enclosure with **IP54** inspection window (polycarbonate inspection window)	**Type**	PS430T43
	Order code	4TBP833857C0100
Weight (kg)		30
IP65 depth extension kit For increasing the standard depth of the enclosure from 320 mm to 640 mm. The kit comprises 2 side panels, 1 upper panel, 1 lower panel, 2 rear open panels (frames).	**Type**	PS430D63
	Order code	4TBP833591C0100
Hoods Necessary if efficient (IP44) ventilation is required, includes drilled holes in the upper panel and the use of fins.	**Type**	PS300R03
	Order code	4TBP833568C0100
Base for ground installation The enclosure and base are anchored together into the ground. H = 65 mm	**Type**	PS200Z03
	Order code	4TBP833574C0100
The basic enclosure is IP65 rated, the hood is optional. If larger widths or depths are required, please contact us.		
Base for ground installation The enclosure and base are anchored together into the ground. H = 70 mm	**Type**	PS300Z03
	Order code	4TBP833575C0100
Adaptor frame for DIN-base mounting The enclosure and adaptation kit are anchored together onto the DIN socket (polyester)	**Type**	PS300A03
	Order code	4TBP833582C0100
DIN base Polyester - RAL 7035	**Type**	EH3SE1EI
	Order code	4TBE843206R0100
Mounting plates Dimensions (H - 110 mm x L - 110 mm)		
2 mm Sendzimir galvanized sheet metal	**Type**	PS430M03
	Order code	4TBP833504C0100
Pertinax 5 mm	**Type**	PS430I03
	Order code	4TBP833512C0100
Pertinax 10mm	**Type**	-
	Order code	

General purpose enclosures

PolySafe - Universal polyester enclosures

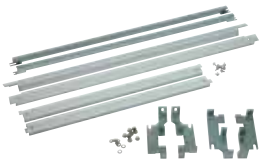


PS 440	PS 442	PS 452	PS 530	PS 540[1]	PS 542	PS 546
1000 x 1000	1000 x 1000	1000 x 1250	1250 x 750	1250 x 1000	1250 x 1000	1250 x 1000
PS833212	PS442P53 (*)	PS452P53 (*)	PS833233	PS833889	PS542P53 (*)	-
4TBP833212N0100	4TBP833241C0100	4TBP833242C0100	4TBP833233N0100	4TBP833889C0100	4TBP833243C0100	
PS440P63	PS442P63	PS452P63	PS530P63	-	PS542P63	PS833056
4TBP833032C0100	4TBP833036C0100	4TBP833040C0100	4TBP833044C0100		4TBP833052C0100	4TBP833056C0100
-	PS442T43	PS452T43	PS530T43	-	PS542T43	-
	4TBP833858C0100	4TBP833859C0100	4TBP833860C0100		4TBP833861C0100	
36	39	41	37	42	45	45
PS440D63	PS440D63	PS833593	PS530D63	-	PS540D63	PS540D63
4TBP833592C0100	4TBP833592C0100	4TBP833593C0100	4TBP833594C0100		4TBP833595C0100	4TBP833595C0100
PS400R03	PS400R03	PS500R03	PS300R03	PS400R03	PS400R03	PS400R03
4TBP833570C0100	4TBP833570C0100	4TBP833572C0100	4TBP833568C0100	4TBP833570C0100	4TBP833570C0100	4TBP833570C0100
PS300Z03	PS400Z03	PS200Z03	PS300Z03	PS400Z03	PS500Z03	PS200Z03
4TBP833575C0100	4TBP833576C0100	4TBP833574C0100	4TBP833575C0100	4TBP833576C0100	4TBP833577C0100	4TBP833574C0100
PS400Z03	PS400Z03	PS500Z03	PS300Z03	PS400Z03	PS400Z03	PS400Z03
4TBP833576C0100	4TBP833576C0100	4TBP833577C0100	4TBP833575C0100	4TBP833576C0100	4TBP833576C0100	4TBP833576C0100
PS400A03	PS400A03	-	PS300A03	PS400A03	PS400A03	PS400A03
4TBP833583C0100	4TBP833583C0100		4TBP833582C0100	4TBP833583C0100	4TBP833583C0100	4TBP833583C0100
EH3SE2EI	EH3SE2EI	-	EH3SE1EI	EH3SE2EI	EH3SE2EI	EH3SE2EI
4TBE843207R0100	4TBE843207R0100		4TBE843206R0100	4TBE843207R0100	4TBE843207R0100	4TBE843207R0100
PS440M03	PS440M03	PS540M03	PS530M03	PS540M03	PS540M03	PS540M03
4TBP833505C0100	4TBP833505C0100	4TBP833507C0100	4TBP833506C0100	4TBP833507C0100	4TBP833507C0100	4TBP833507C0100
PS440I03	PS440I03	PS540I03	PS530I03	PS540I03	PS540I03	PS540I03
4TBP833513C0100	4TBP833513C0100	4TBP833515C0100	4TBP833514C0100	4TBP833515C0100	4TBP833515C0100	4TBP833515C0100
PS833386	PS833386	PS833387	PS833385	PS833387	PS833387	PS833387
4TBP833386C0100	4TBP833386C0100	4TBP833387C0100	4TBP833385N0100	4TBP833387C0100	4TBP833387C0100	4TBP833387C0100

(1) PolySafe PS540 only available in IP54 execution
(*) on request

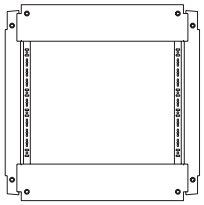
General purpose enclosures

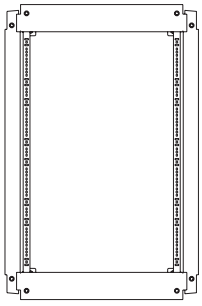
PolySafe - Modular framework for DIN-rail equipment - IP20

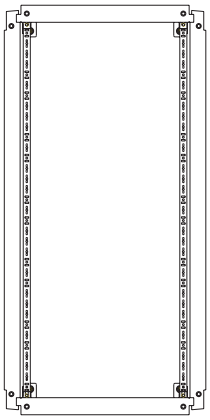


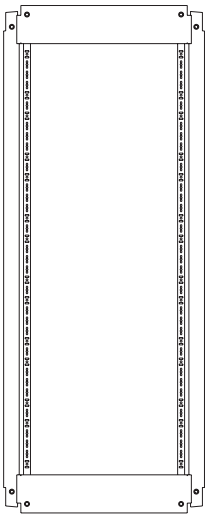


Supplied as a self-assembly kit
Kit contains:
- 2 x support for left-hand vertical profile
- 2 x support for right-hand vertical profile
- 2 x vertical profiles
- 2 x IP20 insulated vertical profiles
- 2 x IP20 insulated horizontal profiles
- assembly accessories

Product	Type	Order code
2 rows		
	40 mod. - H x L = 500 x 500	
	PS220F03	4TBP833264C0100
	68 mod. - H x L = 500 x 750	
	PS230F03	4TBP833265C0100

Product	Type	Order code
4 rows		
	80 mod. - H x L = 750 x 500	
	PS320F03	4TBP833266C0100
	136 mod. - H x L = 750 x 750	
	PS330F03	4TBP833267C0100

Product	Type	Order code
6 rows		
	120 mod. - HxL = 1000x500	
	PS420F03	4TBP833268C0100
	204 mod. - HxL = 1000x750	
	PS430F03	4TBP833269C0100

Product	Type	Order code
7 rows		
	238 mod. - HxL = 1250x750	
	PS530F03	4TBP833270C0100

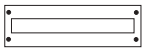
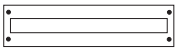
General purpose enclosures

PolySafe - Modular functions and accessories

Modular functions for DIN equipment (to be mounted on the modular frame)



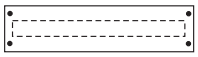
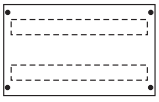
Contents:
- DIN rail
- cover plate with rectangular opening
- mounting accessories

Center line distance 150mm			
Height	Width	500mm	750mm
150mm			
	Modules (1 mod. = 18mm)	20	34
	Type	PS833272	PS833278
	Order code	4TBP833272C0100	4TBP833278C0100

Modular functions for terminals or other equipment (to be mounted on the modular frame)



Contents:
- DIN rail
- solid cover plate
- mounting accessories

Center line distance 150mm			
Height	Width	500mm	750mm
150mm			
	Type	PS833271	PS833277
	Order code	4TBP833271C0100	4TBP833277C0100
300mm			
	Type	PS833274	PS833280
	Order code	4TBP833274C0100	4TBP833280C0100

Accessories (to be mounted on the modular frame)

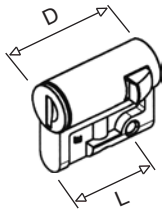
Product	Type	Order code	Pack
Metal mounting plates			
	H x L = 150 x 500 mm		
	PS833275	4TBP833275C0100	1
	H x L = 150 x 750 mm		
	PS833281	4TBP833281C0100	1
	H x L = 300 x 500 mm		
	PS833276	4TBP833276C0100	1
	H x L = 300 x 750 mm		
	PS833282	4TBP833282C0100	1

Accessories (to be mounted on the modular frame)

Product	Type	Order code	Pack
Depth extension studs for metal mounting plates with n. 2 M5×10 screws - (1 set = 2 pieces)			
	Length 20-35-50 mm		
	VMW2050	4TBW828059C0100	1
	Length 25-40-55 mm		
	VMW2555	4TBW828060C0100	1
	Length 30-45-60 mm		
	VMW3060	4TBW828061C0100	1
	Length 65-80-95 mm		
	VMW6595	4TBW828062C0100	1
	Length 70-85-100 mm		
	VMW70100	4TBW828063C0100	1
	Length 75-90-105 mm		
	VMW75105	4TBW828064C0100	1
	Length 110-125-140 mm		
	VMW110	4TBW828031C0100	1

General purpose enclosures

PolySafe - Accessories

Product	Type	Order code	Pack
Profile half cylinder locks			
Standard: D = 40 mm - L = 30.5 mm			
	With 2 keys V2432-E		
	PS832030	4TBP832030C0100	1
	Replacement keys for PS832030		
	PS832741	4TBP832741R0100	2
	With 2 keys 1242-E		
	PS832031	4TBP832031C0100	1
	With 2 keys 455-E		
	PS832465	4TBP832465C0100	1
	With 2 keys 405-E		
	PS832466	4TBP832466R0100	1
	With 1 square key, 8 mm		
	PS832032	4TBP832032C0100	1
	With an 8mm triangular key		
	PS832033	4TBP832033C0100	1
	With an 11 mm triangular key		
	PS832034	4TBP832034C0100	1
	With 1 double-bit key, 3 mm		
	PS832029	4TBP832029C0100	1

Product	Type	Order code	Pack
Handle			
	For lock with half cylinder profile (as replacement)		
	PS833629	4TBP833629C0100	1

Product	Type	Order code	Pack
Padlocking handle			
	For padlock (Ø 10 mm max.)		
	PS833630	4TBP833630R0100	1

Product	Type	Order code	Pack
Depth adjustment kit			
	Set of 4 brackets for adjusting the depth of the mounting plates (12.5 mm increments)		
	PS833528	4TBP833528C0100	1

Product	Type	Order code	Pack
Door stop/Canopy stop			
Opening angle of 100° of the door or canopy (for >750-wide enclosures)			
	Left turning		
	PS833649	4TBP833649C0100	1
	Right turning		
	PS833650	4TBP833650C0100	1
			

Product	Type	Order code	Pack
Wall mounting supports for standard cabinets			
	Kit comprising 4 fixing lugs that clip into the rear of the enclosure. In Type 304 grade stainless steel. (replacement)		
	PS833651	4TBP833651C0100	1

Product	Type	Order code	Pack
Wall fixing lugs for enclosures equipped with a hood.			
	Kit comprising 4 fixing lugs that clip into the rear of the enclosure.		
	PS833624	4TBP833624C0100	1

Product	Type	Order code	Pack
Rainhood			
	Rainhoods for enclosure combinations. Standard rainhoods in the enclosure selection tables.		

For enclosures dimensions (WxD)			
1500 x 320 mm	PS833656	4TBP833656C0100	1
1750 x 320 mm	PS833657	4TBP833657C0100	1
2000 x 320 mm	PS833658	4TBP833658C0100	1
2250 x 320 mm	PS833659	4TBP833659C0100	1
2500 x 320 mm	PS833660	4TBP833660C0100	1
3000 x 320 mm	PS833661	4TBP833661C0100	1
500 x 640 mm	PS833693	4TBP833693C0100	1
750 x 640 mm	PS833692	4TBP833692C0100	1
1000 x 640 mm	PS833783	4TBP833783C0100	1
1250 x 640 mm	PS833784	4TBP833784C0100	1
1750 x 640 mm	PS833743	4TBP833743C0100	1
2000 x 640 mm	PS833691	4TBP833691C0100	1
2500 x 640 mm	PS833764	4TBP833764C0100	1

General purpose enclosures

PolySafe - Accessories

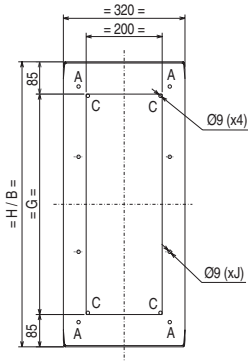
Product	Type	Order code	Pack
Pole mounting			
	Width = 500 mm		
	PS833625	4TBP833625C0100	1
	Width = 750 mm		
	PS833626	4TBP833626C0100	1
	By C profiles, at the rear of the enclosure and affixed to the lugs. Metal sheet is used for securing to the pedestal. Securing clamps are attached to the profiles to ensure that the metal sheet is held fast.		

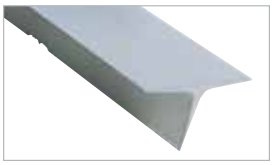
IP65/IP54 coupling kit					
H/B	**G**	**J**	**Depth 320 mm**		
500	330	6	PS833608	4TBP833608R0100	1
750	580	8	PS833610	4TBP833610R0100	1
1000	830	12	PS833612	4TBP833612R0100	1
1250	1080	14	PS833614	4TBP833614R0100	1

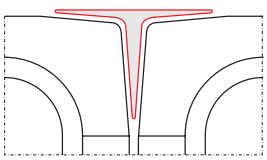
The kit contains the neoprene seal and the securing screws.







Corner profile			
To fill up the corner between two coupled enclosures			
	Length = 308mm		
	PS833653	4TBP833653R0100	1
	Use 2 profiles when coupling n.4 enclosures		

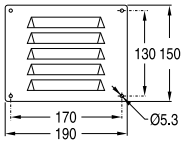


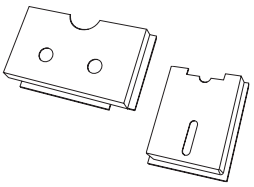
Product	Type	Order code	Pack
IP20 inner door			
HxW			
	500x500 mm		
	PS833556	4TBP833556C0100	1
	500x750 mm		
	PS833557	4TBP833557C0100	2
	750x500 mm		
	PS833558	4TBP833558C0100	1
	750x750 mm		
	PS833559	4TBP833559C0100	1
	1000x500 mm		
	PS833561	4TBP833561C0100	1
	1000x750 mm		
	PS833562	4TBP833562C0100	1
	Frame and door with two double-bit closures. For control and automation applications.		

Solid front plates for 19"/ETSI frame			
For filling remaining empty spaces			
	For cabinets H x W = 500x750 Front plate height = 32 mm		
	PS833684	4TBP833684C0100	1
	For cabinets H x W = 750x750 Front plate height = 15mm		
	PS833685	4TBP833685C0100	1
	For cabinets H x W = 1250x750 Front plate height = 28mm		
	PS833686	4TBP833686C0100	1
	Metal: RAL 7035 epoxy coating Note: not required for H x W = 1000x750 cabinets		

General purpose enclosures

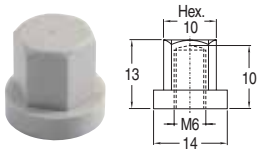
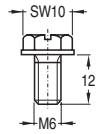
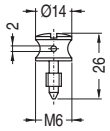
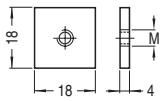
PolySafe - Accessories

Product	Type	Order code	Pack
Ventilation grille ▣			
	PS832019	4TBP832019C0100	1
	Adaptable to the ventilation opening. Kit comprises 2 grilles and 4 nylon screws.		
Air vents IP44			
	Set of 2 polyamide pieces RAL 7035		
	PS833677	4TBP833677C0100	1
	2 fins must be provided per enclosure in order to provide efficient ventilation and to prevent the formation of condensation. Supplied with a template and fixings. It is recommended to install the fins in the upper and lower sections of the enclosure.		
Screws			
	Mounting plate installation kit (8 nuts and bolts).		
	PS833790	4TBP833790C0100	1 set
	7.2 x 22 + M8 x 19 assembly screws for assembling the mounting plate and side panel with the lower panel/hood.		
	PS833687	4TBP833687C0100	100
	7.2 x 22 securing screw for rear panel		
	PS833688	4TBP833688C0100	100

Product	Type	Order code	Pack
Document pocket			
	DIN A4 - B x L = 325 x 180 mm		
	AR811516	4TBC811516C0100	1
	DIN A5 - B x L= 155 x 225 mm		
	PS832000	4TBP832000C0100	1

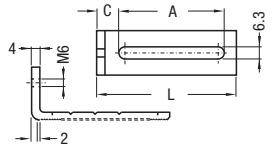
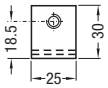
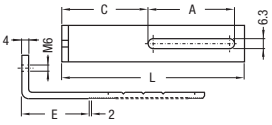
General purpose enclosures

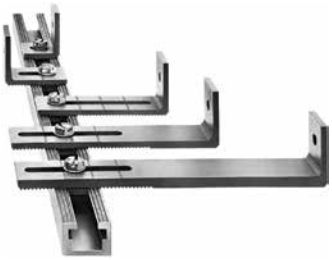
PolySafe - accessories

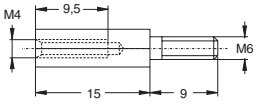
Product	Type	Order code	Pack
Nut made from insulating material			
	RAL 7035		
	KIM601225	4TBC601225C0100	100
Screws			
	M6 flange screw		
	ACC811483	4TBC811483C0100	100
	PVC M6 screw for cover plate (sealable)		
	ACC811451	4TBC811451R0100	100
Metal nut			
	M6		
	ACC811435	4TBC811435C0100	100
	M4		
	ACC811438	4TBC811438C0100	100
	M6		
	ACC811446	4TBC811446C0100	100
	M8		
	ACC811447	4TBC811447C0100	100

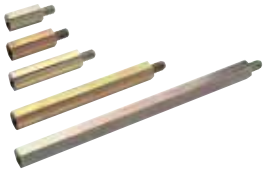
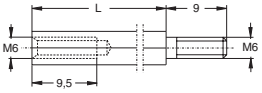
General purpose enclosures

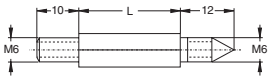
PolySafe - accessories

Product	Type	Order code	Pack
Brackets			
 	L = 40 - A = 24 - C = 9,5		
	ACC811478	4TBC811478R0100	100
	L = 80 - A = 64 - C = 9,5		
	ACC811479	4TBC811479R0100	100
 	L = 120 - A = 64 - C = 49,5 - E = 41.5		
	ACC811480	4TBC811480C0100	100



Product	Type	Order code	Pack
Spacers			
Type 1 - M4-M6			
 	L = 15		
	ACC811336	4TBC811336C0100	100

Product	Type	Order code	Pack
Spacers			
Type 2 - M6-M6			
 	L = 15		
	ACC811337	4TBC811337C0100	100
	L = 20		
	ACC811338	4TBC811338C0100	100
	L = 25		
	ACC811454	4TBC811454R0100	100
	L = 30		
	ACC811339	4TBC811339C0100	100
	L = 35		
	ACC811455	4TBC811455R0100	100
	L = 45		
	PS811456	4TBP811456R0100	100
	L = 55		
	ACC811457	4TBC811457R0100	100
	L = 65		
	ACC811458	4TBC811458R0100	100
	L = 70		
	ACC811340	4TBC811340C0100	100
	L = 80		
	ACC811460	4TBC811460R0100	100
	L = 100		
	ACC811461	4TBC811461R0100	100
	L = 120		
	ACC811341	4TBC811341C0100	100

Product	Type	Order code	Pack
Spacers			
Type 3 - M6-M6			
 	L = 60		
	ACC811342	4TBC811342C0100	100
	L = 30		
	ACC811343	4TBC811343C0100	100

Notes

General purpose enclosures

Accessories - Heater units

Function
Small heaters for electrical enclosures are important accessories for ensuring the operational safety of control and distribution assemblies.
They are essentially used to prevent the formation of condensation or to ensure that a minimum temperature is maintained inside the electrical enclosures, i.e. at a few degrees above ambient temperature.

Operating principle
The small heaters are equipped with PTC heating resistors (semiconductors with a positive temperature coefficient). The self-regulating and self-limiting semiconductor heating elements maintain a constant temperature over the heating surface of the small heaters. The aluminum body transfers heat to the surrounding air through natural radiation. Special extruded profiles guarantee perfect heat radiation.

Calculation model for determining the power requirement
According to the formula: **$P = A \times \Delta T \times k$**

P = power to be supplied via the resistor (W)
A = exterior free surface of the enclosure (m^2)
ΔT = temperature difference between the interior temperature after heating and the exterior temperature in °K.
k = thermal radiation coefficient:
steel: 5.5 W/m^2K
polyester: 3.5 W/m^2K

Rule of thumb: recommended value 100 W/m^3 of enclosure volume. The calorific value must be doubled for an exterior installation. Multiple small heaters are preferable to a single heater unit.

Advantages
- Energy efficiency
- Dynamic heating
- Self-regulating
- Self-limiting
- Quick clip-in fitting
- Zero maintenance
- Long service life
- Compact unit

Standards
EN 60335-1 / EN 62233
UL
EAC

Applications
Electrical enclosures, instrumentation units, display panels, control cabinets,
ATM machines, access control system for parking lots, etc.

Installation
Quick installation on 35 mm DIN rail (EN 50 022).
Recommended installation in the lower section of the enclosure, at least 40 mm from the equipment itself.







General purpose enclosures

Accessories - Heater units



CSK 060



CS 060



CSF 060

CSK 060

Small heating resistor for compact boxes and enclosures, to prevent the formation of condensation or temperatures below a minimum threshold. The resistors have been designed for permanent use.

CS 060 / CSF 060

Compact heating resistor to regulate the temperature of cabinets and enclosures containing electrical and electronic components. Due to its construction, it produces optimized natural convection, which generates an effective flow of hot air. The plastic casing has been designed so that the surface temperature remains low. The heating resistor is equipped by default with a fixed-range thermostat. The thermostat connects directly to the heating resistor and requires no additional wiring. The resistors have been designed for permanent use. The resistor is also available as a version without a thermostat (CS 060 series).

Technical specifications

Nominal voltage	120-240 V(1) AC/DC (min. 110 V, max. 265 V)
Heating element	PTC resistor, self-regulating
Surface temperature	< +85°C (+185°F) (in accordance with VDE 0100), except for the protective grille
Connection	2.5 mm² 2-pole terminal, max. tightening torque 0.8 Nm
Box	plastic material in accordance with UL94 V-0, black
Attachment	clip for 35 mm DIN rail, EN 60715
Installation	vertical air flow (blowing upwards/connection below)
Operating/storage temperature	-45 to +70°C (-49 to +158°F)
Operating/storage humidity	max. 90% RH (condensation-free)
Protection rating	IP20/class II (double insulation)
Certification	VDE, UL, EAC
Note:	other voltage options upon request

(1) For power supplies below 140 V AC/DC, heat production is reduced by 10%.

Ordering information CSK 060, CS 060

	W(1)	I max. (A)	H x W x D (mm)	Weight (kg)	Type	Order code	Pack
CSK 060	10	0.8	98 x 38 x 75	0.2	ACC818225	4TBJ818225C0100	1
	20	2.5	98 x 38 x 75	0.3	ACC818226	4TBJ818226C0100	1
CS 060	50	2.5	110 x 60 x 90	0.3	ACC818227	4TBJ818227C0100	1
	100	4.5	110 x 60 x 90	0.5	ACC818228	4TBJ818228C0100	1
	150	8	150 x 60 x 90	0.5	ACC818229	4TBJ818229C0100	1

(1) Bij omgevingstemperatuur van 20 °C

Ordering information CSF 060

W(1)	I max. (A)	H x W x D (mm)	Cut-out temperature(2)	Start-up temperature(2)	Weight (kg)	Type	Order code	Pack
50	2.5	110 x 60 x 90	+15 °C	+5 °C	0.3	ACC818230	4TBJ818230C0100	1
50	2.5	110 x 60 x 90	+25 °C	+15 °C	0.3	ACC818231	4TBJ818231C0100	1
100	4.5	110 x 60 x 90	+15 °C	+5 °C	0.3	ACC818232	4TBJ818232C0100	1
100	4.5	110 x 60 x 90	+25 °C	+15 °C	0.3	ACC818233	4TBJ818233C0100	1
150	8	150 x 60 x 90	+15 °C	+5 °C	0.5	ACC818234	4TBJ818234C0100	1
150	8	150 x 60 x 90	+25 °C	+15 °C	0.5	ACC818235	4TBJ818235C0100	1

(1) At an ambient temperature of 20°C
(2) Tolerance of ±5 K

General purpose enclosures

Accessories - Heaters



CS 028 / CSL 028

Heating resistor for maintaining a constant temperature inside the enclosures. Prevents malfunctions due to the formation of condensation or ice. Connection via an internal terminal. Thanks to their reduced dimensions, the CS 028 and CSL 028 heating resistors are ideal for installation in enclosures and cabinets with restricted space.

Technical specifications

Heating element	PTC resistor, self-regulating
Surface temperature	150 W/250 W: max. +50°C (+122°F), 400 W: max. 65°C (149°F), with the exception of the upper protective grille, for an ambient temperature of +20°C (+68°F)
Axial fan, with ball bearing roller bearing	air flow rate, unimpeded blowing, CS 028: 13.8 m^3/h, CSL 028: 45 m^3/h (230 V AC), 54 m^3/h (120 V AC), life cycle 40,000 h at +40 °C (+104°F)
Connection	2.5 mm^2 2-pole terminal (CSL 028 with cable gland), max. tightening torque 0.8 Nm
Box	plastic material in accordance with UL94 V-0, black
Attachment	clip for 35 mm DIN rail, EN 60715 or screw attachment (Ø 5.3 mm)
Installation	vertical air flow (blowing upwards)
Operating/storage temperature	-45 to +70°C (-49 to +158°F)
Operating/storage humidity	max. 90% RH (condensation-free)
Certification	IP20/class II (double insulation)
Directives	file no. UL E150057 (in accordance with UL 508A, NITW file upon request), EAC, 230 V only: VDE

Ordering information CSL 028

Type	Nominal voltage	Heating power(1)	Max. start-up current	Fuse (slow-blow)	Dimensions (mm)	Weight (ca) (kg)	Type	Order code	Pack
CS 028	230 V, 50 / 60 Hz	150 W	12.0 A	10.0	75 x 65 x 90	0.3	ACC818242	4TBJ818242C0100	1
CSL 028	230 V, 50 / 60 Hz	250 W	9.0A	10.0	90 x 85 x 111	0.5	ACC818243	4TBJ818243C0100	1
CSL 028	230 V, 50 / 60 Hz	400 W	15.0A	16.0	90 x 85 x 111	0.5	ACC818244	4TBJ818244C0100	1

(1) At an ambient temperature of 20°C

General purpose enclosures

Accessories - Heaters



CSF 028

Compact blown-air heating resistor to maintain a constant temperature inside cabinets and enclosures containing electrical and electronic components. Prevents the formation of condensation or ice. Thanks to their reduced dimensions and anti-touch casing, this heating resistor is ideal for installation in enclosures and cabinets with restricted space. CSF 028 is equipped with a pre-set thermostat. Connection via external terminals. The resistor may be installed in two ways: by threaded bracket or by clip. Mounting by threaded bracket is highly robust and is particularly suitable for applications subjected to strong vibration.

Technical specifications

Heating element	PTC resistor, self-regulating
Surface temperature	250 W: max. +50°C (+122°F), 400 W: max. +65°C (+149°F) m.u.v. bovenliggend roosteroppervlak bij +20°C (+68°F) omgevingstemperatuur
Temperature limiter	prevents any overheating in the event of fan failure, automatic reactivation
Axial fan, with ball bearing roller bearing	air flow rate, unimpeded blowing, CSF 028: 45 m^3/h (230 V AC), 54 m^3/h (120 V AC), life cycle 40,000 h at +40 °C (+104°F)
Connection	2.5 mm^2 double 2-pole spring terminal for solid cable or 1.5 mm^2 for multi-strand wire with terminal connectors
Box	plastic material in accordance with UL94 V-0, black
Attachment	clip for 35 mm DIN rail, EN 60715 or screw attachment (Ø 5.5 mm), max. tightening torque 2 Nm, washers recommended
Installation	vertical air flow (blowing upwards) and horizontal
Dimensions	model with clip/screw attachment: 105 x 85 x 118 mm
Weight	model with clip/screw attachment: 0.5 kg
Operating/storage temperature	+40 to +70°C (-40 to +158°F) / -45 to +70°C (-49 to +158°F)
Operating/storage humidity	max. 90% RH (condensation-free)
Usage classification	IP20/class II (total insulation)
Certification	VDE, UL File No. E150057, EAC

Ordering information CSF 028

Type	Nominal voltage	Heating power(1)	Max. start-up current	Fuse (slow-blow)	Cut-out temperature(2)	Start-up temperature(2)	Type	Order code	Pack
CSF 028	AC 230 V, 50 / 60 Hz	250 W	9.0	10.0	+15°C (+59°F)	+5°C (+41°F)	ACC818247	4TBJ818247C0100	1
CSF 028	AC 230 V, 50 / 60 Hz	250 W	9.0	10.0	+25°C (+77°F)	+15°C (+59°F)	ACC818248	4TBJ818248C0100	1
CSF 028	AC 230 V, 50 / 60 Hz	400 W	15.0	16.0	+15°C (+59°F)	+5°C (+41°F)	ACC818245	4TBJ818245C0100	1
CSF 028	AC 230 V, 50 / 60 Hz	400 W	15.0	16.0	+25°C (+77°F)	+15°C (+59°F)	ACC818246	4TBJ818246C0100	1

(1) At an ambient temperature of +20°C (+68°F); ² tolerance ± 5 K
(2) Another start-up/cut-out temperature is available upon request.

General purpose enclosures

Accessories - Heaters



HVI 030 without fan



HVI 030

Compact heating resistor to regulate the temperature of cabinets and enclosures containing electrical and electronic components. Prevents malfunctions due to the formation of condensation or ice. The heating resistor may only be used in combination with a fan, but it is also available without an axial fan (self-installation). Choice of screw-attachment model or new rotary clip secured model. The latter is simple and quick to fit.

Technical specifications

Nominal voltage	230 V AC, 50 / 60 Hz
Heating element	hoogwaardig verwarmingspatroon
Temperature limiter	prevents any overheating in the event of fan failure, automatic reactivation, additional protection via an irreversible fuse
Axial fan, with ball bearing roller bearing	air flow rate of 150 m^3/h, unimpeded air flow life cycle 50,000 h at +25 °C (+77°F)
Connection	2.5 mm^2 double 3-pole spring terminal for solid cable or 1.5 mm^2 for multi-strand wire with terminal connectors
Box	plastic material in accordance with UL94 V-0, black
Attachment	rotary clip for 35 mm DIN rail, EN 60715
Installation	vertical air flow (blowing upwards)
Dimensions (H x W x D)	169 x 127 x 89 mm
Weight	1.3 kg approximately
Operating temperature	VDE: -10 to +50°C (+14 to +122°F) / UL: -10 to +40°C (+14 to +104°F)
Storage temperature	-45 to +70°C (-49 to +158°F)
Operating/storage humidity	max. 90% RH (condensation-free)
Protection rating	IP20/heating: class II (double insulation), fan: class I (grounded)
Certification	VDE, UL File No. E234324, EAC
Directives	other heating outputs and voltages available upon request

Important instruction: only use resistors with a fan (min. 150 m^3/h).
Risk of overheating!

Ordering information

	Heating power(1)	Type	Order code	Pack
HVI 030	500	ACC818236	4TBJ818236C0100	1
	600	ACC818237	4TBJ818237C0100	1
	700	ACC818238	4TBJ818238C0100	1
HVI 030 without fan	500	ACC818239	4TBJ818239C0100	1
	600	ACC818240	4TBJ818240C0100	1
	700	ACC818241	4TBJ818241C0100	1

(1) At an ambient temperature of 20°C

General purpose enclosures

Accessories - Heaters



350 W



475 / 550 W

Semi-conductor heating resistor to regulate the temperature inside electrical cabinets. Prevents malfunctions due to the formation of condensation or ice. The integral thermostat can be used to adjust the temperature.

Technical specifications

Nominal voltage	220-240 V AC, 50 / 60 Hz
Heating element	PTC resistor, self-regulating
Temperature limiter	prevents any overheating in the event of fan failure, automatic shut-down
Axial fan, with ball bearing roller bearing	air flow rate: see table, life cycle 50,000 h at +25 °C (+77°F)
Connection	2.5 mm² 2-pole terminal, max. tightening torque 0.8 Nm
Box	plastic material UL94 V-0, light gray
On/Off indicator	LED indicator
Attachment	clip voor 35 mm rail DIN, EN 60715
Installation	vertical air flow (blowing upwards)
Dimensions (H x W x D)	100 x 128 x 165 mm
Operating/storage temperature	-45 to +70°C (-49 to +158°F)
Operating/storage humidity	max. 90% RH (condensation-free)
Protection rating	IP20/class II (total insulation)
Certification	VDE, UL File No. E204590, EAC
Directives	other heating outputs and voltages available upon request

Ordering information

Nominal voltage	Heating power(1) (50 Hz)	Heating power(1) (60 Hz)	Max. start-up current	Air flow rate, unimpeded blowing	Temperature regulator adjustment range(2)	Weight (approx-imate)	Type	Order code	Pack
220-240 V AC, 50 / 60Hz	350 W	550 W	8.5A	45 m³/h	0°C to +60°C	1.1	ACC818193	4TBJ818193C0100	1
220-240 V AC, 50 / 60Hz	475 W	550 W	11.0A	35 m³/h	0°C to +60°C	0.9	ACC818249	4TBJ818249C0100	1
220-240 V AC, 50 / 60Hz	550 W	650 W	13.0A	45 m³/h	0°C to +60°C	1.1	ACC818250	4TBJ818250C0100	1

(1) At an ambient temperature of 20°C
(2) 7 K start-up temperature hysteresis (tolerance of ±4 K)

General purpose enclosures

Accessories - Heaters



CR 130

Powerful heating resistor to regulate the temperature of cabinets and enclosures containing electrical and electronic components. Prevents malfunctions due to the formation of condensation or ice. The plastic casing provides protection against burns when coming into contact with hot parts. The heating resistor is available with an integral temperature regulator or a fixed-range hygrostat.

Technical specifications

Heating element	PTC resistor, self-regulating
Temperature limiter	prevents any overheating in the event of fan failure, automatic shut-down
Axial fan, with ball bearing roller bearing	air flow rate of 160 m^3/h, unimpeded air flow life cycle 50,000 h at 25 °C (77°F)
Connection	2.5 mm^2 max. 2-pole with securing bolt cable gland, max. tightening torque 0.8 NM
Box	plastic material in accordance with UL94 V-0, black
Attachment	clip attachment for 35 mm DIN rail, EN 60715 or screw attachment (M6)
Installation	vertical air flow (blowing upwards) + other
Dimensions	182 x 160 x 120 mm
Weight	1.3 kg approximately
Operating/storage temperature	-45 to +70°C (-49 to +158°F)
Operating/storage humidity	max. 90% RH (condensation-free)
Protection rating	IP20/class II (total insulation)

Ordering information CS 130

Type	Nominal voltage	Heating power(1)	Adjustment range(2)	Fuse T (slow-blow)	Dimensions (mm)	Weight (approx-imate)	Type	Order code	Pack
CR 130	AC 230 V, 50 / 60Hz	950W	0°C to +60°C	6.3A	99 x 160 x 182	1.5	ACC818251	4TBJ818251C0100	1
CS 130	AC 230 V, 50 / 60Hz	1200W	Resistor without thermostat	10.0A	120 x 160 x 182	1.3	ACC818253	4TBJ818253C0100	1

(1) At an ambient temperature of 20°C
(2) 7 K start-up temperature hysteresis (tolerance of ±4 K)

General purpose enclosures

Accessories - Thermostat



KTO



KTS

Function

KTO and KTS elements regulate and control the temperature inside the enclosure by controlling the small heaters, fans, heat exchangers and cooling units.

KTO 011

Thermostat (contact normally closed) for heating resistor regulation. The contact is opened when the temperature increases.

KTS 011

Thermostat (contact normally open) for regulating filter fans, heat exchangers and air conditioning units or for triggering signals when the temperature threshold is exceeded. The contact is closed when the temperature increases.

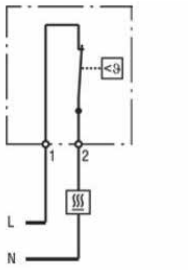
Technical specifications

Type	KTO	KTS
Adjustment range: hysteresis temperature	+10 - +50°C or 0 - +60°C 7 K (±4 K tolerance)	+10 - +50°C or 0 - +60°C 7 K (±4 K tolerance)
Contact type	NC	NO
Power	250 V AC, 10 (2) A 120 V AC, 15 (2) A 30 W DC on 24 V DC to 72 V DC	250 V AC, 10 (2) A 120 V AC, 15 (2) 30 W DC on 24 V DC to 72 V DC
Max. start-up current	16 A AC for 10 s	16 A AC for 10 s
Weight	36 g	36 g
Dimensions (H x W x D) mm	60 x 33 x 43 mm	60 x 33 x 43 mm
Wiring diagram	red button: heating	blue button: cooling, ventilation, alarm signal
Protection rating	IP20	IP20
Connection	2-pole terminal, max. tightening torque 0.5 Nm: 2.5 mm² solid cable (AWG 16), 1.5 mm² flexible cable (AWG 14)	
Installation	clip for 35 mm DIN rail, EN 60715	
Box	plastic material UL94 V-0, light gray	
Anti-interference	N in accordance with VDE 0875	

Values between parentheses: inductive load cos φ = 0.80

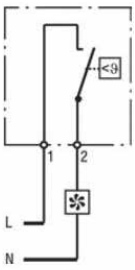
Connection diagram

KTO

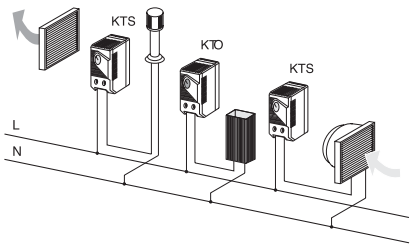


Heating
Fan, cooling element, alarm signal

KTS



Heating
Fan, cooling element, alarm signal



Ordering information

	Temperature	Type	Order code	Pack
KTO	-10° to +50°C	ACC818265	4TBJ818265C0100	1
KTO	0° to +60°C	ACC818080	4TBJ818080C0100	1
KTS	-10° to +50°C	ACC818266	4TBJ818266C0100	1
KTS	0° to +60°C	ACC818081	4TBJ818081C0100	1

General purpose enclosures

Accessories - Thermostat



FZK 011



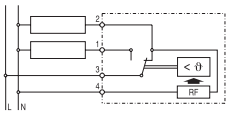
ZR 011



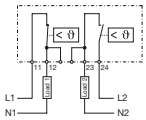
ETR 011

Connection diagram

FZK 011

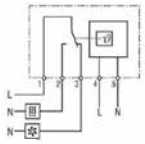


ZR 011



Normally closed: heating resistor
Normally open: air conditioning unit, filter fan or heat exchanger

ETR 011



Heating
Fan, cooling element, alarm signal

Function

FZK 011, ZR 011 and ETR 011 elements regulate and control the temperature inside the enclosure by controlling the small heaters, fans, heat exchangers and cooling units.

FZK 011

Mechanical thermostat used for controlling heating resistors, air conditioning units, filter fans or signaling. It obtains ambient temperature readings and can switch resistive and inductive loads thanks to its snap switching.

ZR 011

Two thermostats in one unit:

- thermostat (contact normally closed) for heating resistor regulation.;
- thermostat (contact normally open) for regulating filter fans, heat exchangers and air conditioning units or for triggering signals when the temperature threshold is exceeded.

Unlike a thermostat with inverter switch, the dual thermostat allows the heating resistor and air conditioning unit to be connected independently at different temperature ranges.

ETR 011

The mechanical thermostat is used for controlling heating resistors, air conditioning units, filter fans or signaling. The thermostat obtains ambient temperature readings and can switch resistive and inductive loads thanks to its inverter switch (relay). The LED integral to the adjustment button lights up when the contact is closed (when the heating resistor is in operation, for example).

Technical specifications

Type	FZK 011	ZR 011	ETR 011
Adjustment range: hysteresis temperature	+5 to +60°C or -20 - +35°C 0.5 K	0 to 60°C 7 K	+20°C 4 K (±1 K tolerance)
Contact type	switching contact: single-pole	NC	NO
Power	NC 10 A (4) 250 V AC NO 5 A (2) 250 V AC Resistive load	10 A (2) 250 V AC Resistive load	AC 240 V, 8 (1.6) A AC 120 V, 8 (1.6) DC 100 W to DC 24 V
Max. start-up current	-	-	16 A AC for 10 s
Weight	100 g	90 g	70 g
Dimensions (H x W x D) mm	67 x 50 x 38	60 x 50 x 46	64.5 x 42 x 38
Wiring diagram	(see left)	(see left)	/
Protection rating	IP20	IP20	IP20
Connection	2-pole terminal, max. tightening torque 0.5 Nm: 2.5 mm^2 solid cable (AWG 14) 1.5 mm^2 flexible cable (AWG 16)		
Installation	clip for 35 mm DIN rail, EN 60715		
Box	plastic material UL94 V-0, light gray		
Anti-interference	N in accordance with VDE 0875		

Values between parentheses = inductive load cos φ = 0.8

Ordering information

	Temperature	Type	Order code	Pack
FZK 011	+5° to +60°C	ACC818079	4TBJ818079C0100	1
FZK 011	-20° to +35°C	ACC818269	4TBJ818269C0100	1
ZR 011	0° to +60°C	ACC818217	4TBJ818217C0100	1

(1) At an ambient temperature of 20°C

General purpose enclosures

Accessories - Thermostat



FTO 011



FTS 011

Function

The mechanical thermostat is a dual switch with low hysteresis. The thumb wheel is for anti-icing adjustment. The casing ensures optimal air circulation around the bimetallic element.

STO 011

Thermostat (contact normally closed) for heating resistor regulation. The contact is opened when the temperature increases.

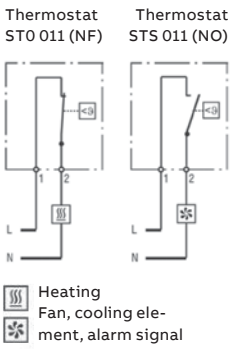
STS 011

Thermostat (contact normally open) for regulating filter fans, heat exchangers and air conditioning units or for triggering signals when the temperature threshold is exceeded. The contact is closed when the temperature increases.

Technical specifications

Type	
Hysteresis	4 K (±3 K tolerance)
Heat sensor	with bimetal element
Contact type	snap switching
Life cycle	> 100,000 cycles
Power	250 V AC, 10 (2) A 120 V AC, 15 (2) A 30 W DC on 24 V DC to 72 V DC
Max. start-up current	16 A AC for 10 s
Connection	2-pole terminal, max. tightening torque 1 Nm: 2.5 mm² flexible/solid cable (AWG 14)
Attachment	clip for 35 mm DIN rail, EN 60715
Box	plastic material UL94 V-0, light gray
Dimensions	70 x 33 x 42 mm
Weight	50 g approximately
Installation	mandatory
Operating/storage temperature	-45 to +80°C (-49 to +176°F)
Operating/storage humidity	max. 90% RH (condensation-free)
Protection rating	IP20
Certification	VDE, UL File No. E164102, EAC

Connection diagram



Ordering information

	Contact	Temperature	Type	Order code	Pack
STO 011	NC	0° to 60°C	ACC818267	4TBJ818267C0100	1
STS 011	NO	0° to 60°C	ACC818268	4TBJ818268C0100	1

General purpose enclosures

Accessories - Hygrotherm



ETF 012

The hygrostat/thermostat measures both temperature and humidity, and is able to activate heating or cooling independently.

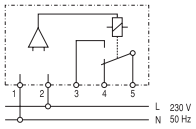
Technical specifications

Adjustment range:	
- Temperature	0°C to 60°C
- Hysteresis	2K
- Relative humidity of the air	50% to 90%
- Rest time	160 secs.
Power supply voltage	100-240 V / 50-60 Hz
Contact type	relay output: NO/NF switch
Power output(1)	8 A (4) 250 V AC 0.5 A 100 V DC 8 A 12 V DC 5 A 35 V DC
On/Off indicator	LED
Weight	140 g
Dimensions (H x W x D)	50 x 67 x 43 mm
Protection rating	IP20
Connection	2.5 mm^2 screw-in terminals
Attachment	35 mm DIN rail(EN 50022)
Box	plastic UL 94 V0
Anti-interference	N in accordance with VDE 0875

(1) Values between parentheses: inductive load cos φ = 0.80

Connection diagram

EFT 012



Ordering information

	Type	Order code	Pack
ETF 012	ACC818083	4TBJ818083C0100	1
ETF 012 with external sensor	ACC818271	4TBJ818271C0100	1

General purpose enclosures

Accessories - Hygrostat



MFR 012



EFR 012

The humidity regulator is designed to control the temperature and air humidity inside the enclosure. The regulator is activated when the humidity level reaches 65%. In doing so, the system efficiently prevents the risk of condensation and corrosion.

Technical specifications

	MFR 012	EFR 012
Adjustment range	35 to 95% RV	40 to 90% RV
Switching hysteresis	tolerance of ±3 % RH	tolerance of ±3 % RH
Nominal voltage	250 V AC	230 V AC, 50/60 Hz
Switching capacity, max. load:		
- Resistive load	5 A 250 V	240 V AC, 8 (1.6) A
- Inductive load cos φ 0.8	0.2 A 250 V AC	120 V AC, 8 (1.6) A
- Inductive load L/R = 3 ms	1 A 50 V DC to 75 V DC	100 W AC to 24 V DC
Switching capacity, min. load:	100 mA DC / AC 20 V	
Contact type	CO NO / NC	CO (relay)
Connection	terminal plate inside the casing, 3 x 2.5 mm^2	5-pole terminal, max. tightening torque 0.5 Nm: 2.5 mm^2 solid/ flexible cable (AWG 14)
Box	plastic, light gray	plastic material UL94 V-0, light gray
Installation	35 mm DIN rail	clip for 35 mm DIN rail, EN 60715
Protection rating	IP20	IP20
Dimensions (H x W x D)	67 x 50 x 38 mm	64.5 x 42 x 38 mm
Weight	60 g	70 g

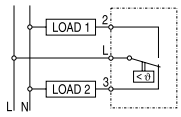
(1) Values between parentheses: inductive load cos φ = 0.80

Ordering information

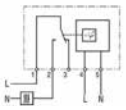
	Type	Order code	Pack
MFR 012	ACC818190	4TBJ818190C0100	1
EFR 012	ACC818270	4TBJ818270C0100	1

Connection diagram

MFR 012



EFR 012

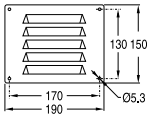
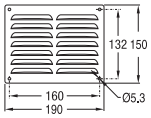
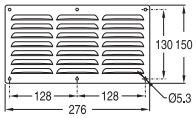


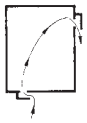
Heating
Fan, cooling element, alarm signal

General purpose enclosures

Accessories - Passive cabinet ventilation

The differences between ambient temperature and the temperature inside a cabinet with a high protection rating may generate variations in pressure. In the event of under-pressure, the cabinet may draw in dust and moisture. Any moisture trapped inside the cabinet will be deposited as condensation. This condensation can be prevented through the use of ventilation grilles.

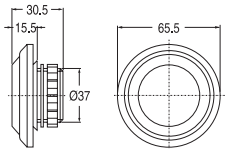
Product	Type	Order code	Pack
IP44 ventilation grille			
Suitable for a ventilation opening Includes 2 grilles and 4 nylon nails. Total insulation.			
			
2000 mm² grille	PS832019	4TBP832019C0100	1
			
3000 mm² grille	PS832743	4TBP832743C0100	1
			
4500 mm² grille	PS832744	4TBP832744C0100	1
			

Product	Type	Order code	Pack
IP44 vent (RAL 7035)			
In order to guarantee sufficient ventilation and to avoid condensation, two vents must be installed; one at the top and a second one at the bottom. Kit includes: drilling template.			
Set of 2 polyamide pieces	PS833677	4TBP833677C0100	1
  			

Product	Type	Order code	Pack
Vents (IPx4)			
Improve ventilation and prevent condensation. Recommended installation above or below the cabinet - M20			
	MB861728	4TBG861728R0100	25
			

Product	Type	Order code	Pack
IP55 pressure compensation plug			
Hermetically sealed cabinets and enclosures are subjected to thermal or exterior influences, which result in temperature fluctuations during changes in pressure. Pressure compensation plugs compensate for changes in pressure and prevent the ingress of dust and moisture. The plug is suitable for use in electrical cabinets and enclosures, in accordance with the DIN EN 62208 standard.			
Set of 2 pieces	ACC818078	4TBJ818078R0100	1

Technical specifications	
Dimensions	ø 65.5 mm x 30.5 mm
Cut-out	ø 37 mm
Attachment	PG 29 threaded or nut
Material	ABS/PC
Air inlet	±1.5 cm²
Protection rating	IP55
Note:	compensation for optimal pressure revolves around the use of 2 plugs, diagonally opposed. If the plug is not installed vertically, the protection rating is reduced to IP54.

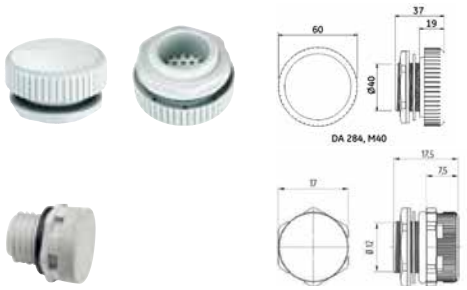
Product	Type	Order code	Pack
Vents - IP44[1]			
Set of 2 pieces, bore diameter Ø 34.9 mm	AR831009	4TBA831009C0100	1
			

(1) If positioned in the corners of an Aria cabinet or under the hood of a PolySafe cabinet

General purpose enclosures

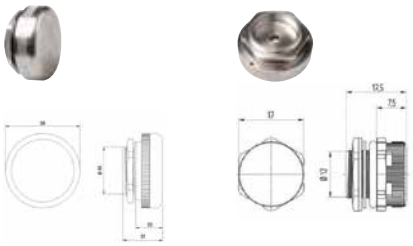
Accessories - Passive cabinet ventilation

Product		Type	Order code	Pack
Pressure regulator plug - IP66				
Set of 2 pieces				
	M40	ACC818223	4TBJ818223R0100	1
Highly resistant to poor weather conditions and UV, compliant with the UL746C standard	M40	ACC870418	4TBJ870418C0100	1
	M12	ACC818287	4TBJ818287C0100	1



Installation	M40 x 1.5 or M12 x 1.5 thread with nut.
Torque	M40: 5 Nm, M12: 0.5 Nm
Mounting depth	M40: approximately 16 mm, M12: approximately 8 mm
Sealing	NBR seal
Filter	waterproof membrane
Dimensions	M40: Ø 60 x 37 mm, M12: Ø 17 x 17.5 mm
Installation	mandatory
Certification	UL (870418), EAC

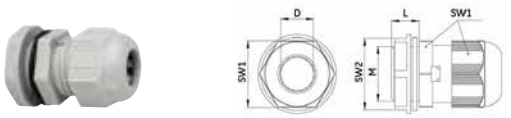
Pressure compensation plug - IP66			
STAINLESS AISI 304	ACC818288	4TBJ818288C0100	1
STAINLESS AISI 304	ACC818289	4TBJ818289C0100	1
STAINLESS AISI 316L	ACC818290	4TBJ818290C0100	1



Installation	M40 x 1.5 thread with nut.
Torque	5 Nm
Mounting depth	9 mm approximately
Sealing	NBR seal
Filter	waterproof membrane
Air permeability	1200 l/h with a pressure difference of 70 mbar min.
Dimensions	Ø 58 x 31 mm
Installation	mandatory
Operating/storage temperature	-45 to +80°C (-49 to +176°F)
Certification	EAC

DAK 284

Product			Type	Order code	Pack
Ventilated cable gland - IP66/IP67					
Air permeability		**Torque**			
25 l/h	M12	2Nm	ACC818291	4TBJ818291C0100	1
25 l/h	M16	2Nm	ACC818292	4TBJ818292C0100	1
40 l/h	M20	5Nm	ACC818293	4TBJ818293C0100	1

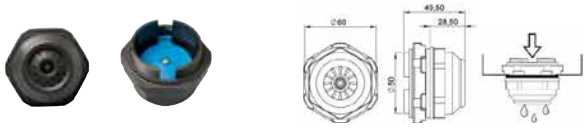


Installation	M12 x 1.5 / M16 x 1.5 / M20 x 1.5 thread
Mounting depth	0.5 – 3 mm with nut
Material	plastic, light gray
Protection rating	IP66 / IP67 (EN 60529)
Sealing	NBR seal
Filter	PTFE
Installation	mandatory
Operating/storage temperature	-20 to +80°C (-4 to +176°F)
Certification	VDE, UL, EAC

Dimensions (mm)			
Type	ACC818291	ACC818292	ACC818293
Order code	4TBJ818291C0100 M12	4TBJ818292C0100 M16	4TBJ818293C0100 M20
L	8	10	10
D	4 - 8	4 - 8	6 - 12
SW1	19	19	24
SW2	18	22	26

DD 084

Product	Type	Order code	Pack
Drainage plug - IP66/IP67/IP69K			
	AC818294	4TBJ818294C0100	1

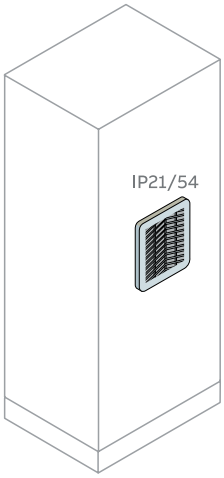


Torque	M12 x 1.5 / M16 x 1.5 / M20 x 1.5 thread
Mounting depth	0.5 – 3 mm with nut
Material	plastic in accordance with UL94 V-0, dark gray, highly resistant to poor weather conditions and UV, compliant with the UL746C standard
Protection rating	IP66 / IP67 (EN 60529)
Sealing	NBR seal
Filter	PTFE
Installation	mandatory
Operating/storage temperature	-20 to +80°C (-4 to +176°F)
Certification	VDE, UL, EAC

Installation instructions: drill a Ø 50.5+ mm hole in the lower section of the enclosure and install the drainage system with a nut. Important: the hole must have no burred edges and the seal must be fitted on the exterior side of the enclosure.

General purpose enclosures

Accessories - Ventilation kits



Temperature management

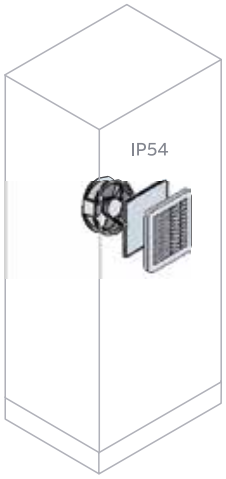
IP21/54 natural ventilation kit

Gratings made of insulating material (self-extinguishing ABS UL94V-0) RAL7035 colour, complete with high dust collection capacity filter cloth (600g/m²), able to reduce maintenance interventions (cleaning by means of washing in water or by beating). Degree of protection IP21 without filter, IP54 with filter according to IEC 60529, Type 1 without filter, Typer 12 with filter according to UL approval 508 fitted with pre-assembled gasket seal. CE and cURus approval.

Air entry surface for ventilation		Dimensions (mm)					
Without filter cm²	With filter cm²	W	W		Type	Order code	Package/ No. of pieces
Grille+air passage filter kit							
27	6	105	105		EN0105K		1/1
53	10	150	150		EN0150K		1/1
121	22	204	204		EN0204K		1/1
225	32	250	250		EN0250K		1/1
317	55	325	325		EN0325K		1/1

General purpose enclosures

Accessories - Ventilation kits



Temperature management

IP54 forced ventilation Kit

Grilles made of insulating material (ABS self-extinguishing UL94V-0) RAL7035 colour, complete with filter cloth with high dust accumulation capacity (600g/m^2), able to reduce maintenance interventions (cleaning by washing with water or beating). IP54 degree of protection with filter according to UL approval 508 fitted with pre-mounted tightness gasket. Operating temperature -10 °C + 50 °C. The fans allow reversible flow of air. CE and cURus (see mark) approval.

Air entry surface for ventilation		Dimensions (mm)					
Consumption 50/60Hz (W)	Capacity 50/60Hz (m^3/h)	W	W		Type	Order code	Package/ No. of pieces
Ventilation filter with IP54 230V ~ fan							
10/8	23/30	105	105	cULus	EN1105K		1/1
20/19	57/61	150	150	cULus	EN1150K		1/1
17/15	120/135	204	204	cULus	EN1204K		1/1
29/29	240/270	250	250	cULus	EN1250K		1/1
67/87	520/580	325	325		EN2325K		1/1
Ventilation filter with IP 54 1150V~ fan							
9/7	23/30	105	105	cULus	EN2105K		1/1
20/18	57/61	150	150	cULus	EN2150K		1/1
17/15	120/135	200	200	cULus	EN2204K		1/1
30/30	240/270	250	250	cULus	EN2250K		1/1
50/64	520/580	325	325		EN3325K		1/1

General purpose enclosures

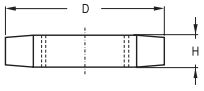
Accessories - General accessories

Cable gland - PG - IP54 polycarbonate (gray)

PG	D1 (mm)	Drill diameter ø (mm)	D3	D5	L5	S1	S2	Type	Order code	Pack
11	18.6	19	11	24	8	19	22	APACC851038	4TBO851038C0100	50
13.5	20.4	21	13	26.5	9	21	24	APACC851042	4TBO851042C0100	50
16	22.5	23	16	29.5	10	23	27	APACC851046	4TBO851046C0100	50
21	28.3	29	21	35	11	30	32	APACC851051	4TBO851051C0100	25
29	37	38	27.5	45	11	41	42	APACC851056	4TBO851056C0100	10
36	47	48	34	57	13	50	53	APACC851060	4TBO851060C0100	5
42	54	55	42	64	12.5	55	60	APACC851062	4TBO851062C0100	5

Nuts - Polycarbonate (gray)

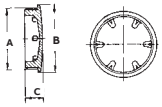




PG	D	H	Type	Order code	Pack
11	25	5	APACC851075	4TBO851075C0100	50
13.5	27.5	5.5	APACC851076	4TBO851076C0100	50
16	31	6	APACC851077	4TBO851077C0100	50

Plugs (black)





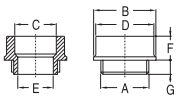
A	B	C	Type	Order code	Pack
PG16	26	11	APACC851064	4TBO851064C0100	50
PG21	32	11.5	APACC851065	4TBO851065C0100	50
PG29	41	13	APACC851066	4TBO851066C0100	50
PG36	51	12.5	APACC851068	4TBO851068C0100	50

Pipe entries - Non-threaded (black)

Pipe ø	A	B	C	D	E	F	G	Type	Order code	Pack
5 / 8"	PG-16	26	17	21	14.1	15	9	APACC851069	4TBO851069C0100	20
3 / 4"	PG-16	26	20	24	16	21	9	APACC851070	4TBO851070C0100	20

Pipe entries - Non-threaded (black)



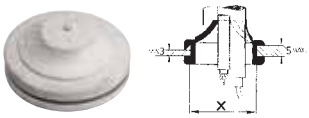


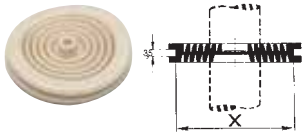
Pipe ø	A	B	C	D	E	F	G	Type	Order code	Pack
5 / 8"	PG-16	26	17	21	14.1	15	9	FOB61TUB3	4TBB600933C0200	25
3 / 4"	PG-16	26	20	24	16	21	9	FOB61TUB4	4TBB600934C0200	25

General purpose enclosures

Accessories - General accessories

Universal entries (gray)

	Cable Ø max.	PG	Drill diameter Ø (mm)	Color	Type	Order code	Pack
	18	16	23	gray	FORJRPG16	4TBR610130C0200	25
	24	21	29	gray	FORJRPG21	4TBR610132C0200	25
	32	29	38	gray	FORJRPG29	4TBR610133C0200	25
	49	42	54	gray	APACC852191	4TBO852191C0100	1

	Cable Ø min.	max.	Drill diameter Ø (mm)	Color	Type	Order code	Pack
	12	48	55	gray	APACC851096	4TBO851096C0100	20
	12	30	35	gray	APACC851097	4TBO851097C0100	20
	12	36	45	gray	APACC851098	4TBO851098C0100	20
	22	66	75	gray	APACC851099	4TBO851099C0100	10
	22	58	65	gray	APACC851100	4TBO851100C0100	10

Railstellen		Type	Order code	Pack
	- RSTN busbars - I = 63 A - Busbar cross-section 6.5 x 9 - DIN rail mounting - Peak current: 15 kA (10 msec)	ACC610022	4TBR610022C0200	18
	- RSTN busbars - Busbar cross-section 12 x 5 - I = 160A - DIN rail mounting - Peak current: 35kA (10 msec)	ACC610020	4TBR610020C0200	12
	- Protective screen for 610020	ACC610021	4TBR610021C0200	12
	- Busbars 12 x 5 - Length 1.2 m + 50 jumpers and 50 screws - Maximum span: 200 mm - To be combined with 610018 supports	ACC610017	4TBC610017C0100	10
	- Busbar support for four 12 x 5 busbars - Max. spacing of supports: max. 200 mm - DIN rail mounting - To be combined with the busbars above	ACC610018	4TBC610018C0100	1

(1) The ACC610017 and ACC610018 assembly has a peak current of: 15 kA (10 msec)

General purpose enclosures

Accessories - General accessories

Busbar/cable terminals			Type	Order code	Pack
 	**With 4 bypasses** - For Al/Cu cable - Max. thickness: 12 mm - Width: unlimited	35-70 mm² + 4 bypasses (16 mm²)			
		2 cables	ACC779221	4TBC779221C0100	4
		3 cables	ACC779222	4TBC779222C0100	4
		90-150 mm² + 4 bypasses (25 mm²)			
		2 cables	ACC779218	4TBC779218C0100	4
		3 cables	ACC779219	4TBC779219C0100	4

Rubber insulation cap		Type	Order code	Pack
	For 35-70 mm² terminal			
		ACC779224	4TBC779224C0100	4
	For 95-150 mm² terminal			
		ACC779223	4TBC779223C0100	4

Connection busbars		Type	Order code	Pack
	- Phase - black - 6 x 10mm² and 2 x 16 mm² - Interlocking on flat bar 12 x 2 mm	FORSTTL	4TBR610185C0200	4
	- Ground - green - 6 x 10mm² and 2 x 16 mm² - Interlocking on flat bar 12 x 2 mm	FORSTTPE	4TBR610186C0200	4
	- Neutral - blue - 6 x 10mm² and 2 x 16 mm² - Interlocking on flat bar 12 x 2 mm	FORSTTN	4TBR610187C0200	4
	- 14 x 16 mm² - DIN rail mounting	ACC610065	4TBC610065C0100	4
	- Ground busbar - 12 x 4 with 3 terminals - Screw fixing	APACC851021	4TBO851021C0100	4

Busbar/busbar terminals							
	Main busbar	Secondary busbars	Min. total thickness	Clamped bars	Type	Order code	Pack
	20	15 - 20	5 - 4	26 - 24	APACC851120	4TBO851120C0100	10
	30	15 - 20 - 30	7 - 6 - 5	28 - 27 - 26	APACC851129	4TBO851129C0100	10

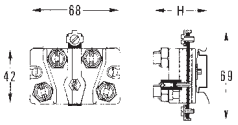
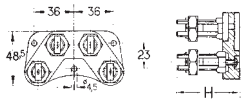
General purpose enclosures

Accessories - General accessories

Busbar/busbar terminals

	Cable max. Ø (mm^2)	Busbar thickness (mm)	Busbar width (mm)	Type	Order code	Pack
	10 to 50	5 to 6	30	APACC851117	4TBO851117C0100	10
	4 to 35	3 to 5	15	APACC851118	4TBO851118C0100	10

Terminal rosettes for 10-16 mm^2 Al and Cu cable

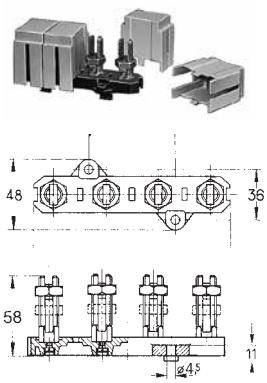
		Attachment	Ground clamp	H	Type	Order code	Pack
   	- 4 split terminals with max. terminal connection: - Single tin pressure element: 4 x 4mm^2 - 4 x 6 mm^2 - 4 x 10 mm^2 - 3 x 16 mm^2 - Double tin pressure element: To be ordered separately	screw-fit	none	46	ACC779212	4TBC779212C0100	5
		on DIN rail	none	48	ACC779213	4TBC779213C0100	5
		screw-fit	included	46	ACC779214	4TBC779214C0100	5
		on DIN rail	included	48	ACC779215	4TBC779215C0100	5
		screw-fit	none	48	ACC890705	4TBC890705C0100	5

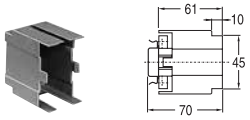
Double pressure element		Type	Order code	Pack
	Set of 4 securing nuts	ACC779216	4TBC779216C0100	1

Insulation cap		Type	Order code	Pack
	Made of rubber	ACC890704	4TBC890704C0100	20

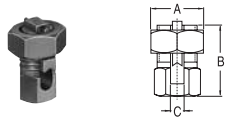
General purpose enclosures

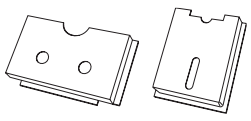
Accessories - General accessories

25-35 mm² terminal blocks		Type	Order code	Pack
	- Without insulation caps - 1 securing nut - Al/Cu cable	ACC779201	4TBC779201C0100	10
	- 2 securing nuts - Al/Cu cable	ACC779202	4TBC779202C0100	10
	- With insulation caps - 2 securing nuts - Al/Cu cable	ACC779204	4TBC779204C0100	10
	- With insulation caps and attachment - 2 securing nuts - Al/Cu cable	ACC779205	4TBC779205C0100	10

Insulation cap		Type	Order code	Pack
		ACC890838	4TBC890838C0100	10

Double pressure element		Type	Order code	Pack
	Set of 4 securing nuts	ACC779203	4TBC779203C0100	10

Cable clamps for overhead lines	Cross-section	A	B	C	Type	Order code	Pack
	10 mm²	14	24	4.5	KIM601227	2CDB710029R0000	100
	16 mm²	22	29	5.5	KIM601228	2CDB710019R0000	50
	35 mm²	25	35	7.5	KIM601229	2CDB710022R0000	25
	50 mm²	28	43.5	9.0	KIM601230	2CDB710031R0000	25

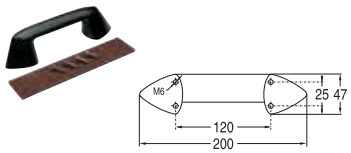
Document pocket		Type	Order code	Pack
	DIN A4, 325 B x 180 H, self-adhesive - gray			
		PS811516	4TBC811516C0100	1
	DIN A5, 155 B x 225 H, self-adhesive - transparent			
		PS832000	4TBP832000C0100	1

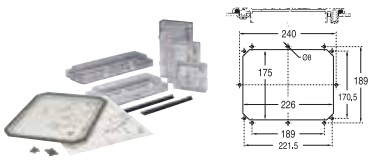
Insulated cover plate (color: orange)		Type	Order code	Pack
	Thickness 3mm, 1900 x 900 x 3 mm			
		ACC811096	4TBC811096C0100	1

General purpose enclosures

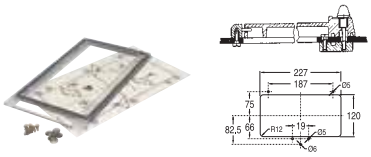
Accessories - General accessories

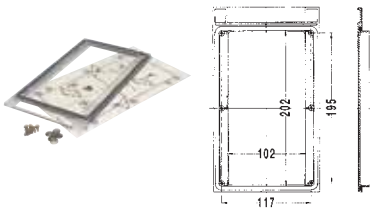
Module covers		Type	Order code	Pack
	12 modules, sectionable by 1/2 module			
		FORSTBP4	4TBR610142C0200	5

Handle ▣		Type	Order code	Pack
	Height 50 mm, with reinforcement molding + Vyncolite screws			
		APACC851244	4TBO851244C0100	1

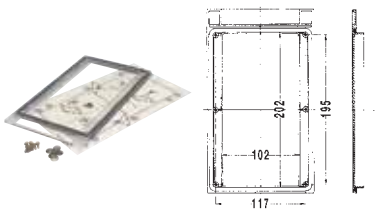
IP54 windows ▣		Type	Order code	Pack
	Includes a template and fixings			
	77 x 60 mm - 2 mod.	ACCWD2M	4TBO861395C0100	1
	77 x 96 mm - 4 mod.	ACCWD4M	4TBO861396C0100	1
	77 x 130 mm - 6 mod.	ACCWD6M	4TBO861397C0100	1
	77 x 163 mm - 8 mod.	ACCWD8M	4TBO861398C0100	1
	Screw-fit ▣ IP67	AP9X7WD	4TBO866001C0100	1

cULus types 3, 3R, 4, 4X, 12 and 13

	With hinges and seal ▣ IP55			
	77 x 60 mm - 2 mod.	APACC890837	4TBO890837C0100	1

	Screw-fit ▣ IP67, with label holders			
		AP8X4WDL	4TBO866002C0100	1

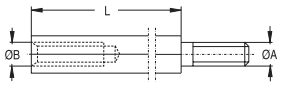
cULus types 3, 3R, 4, 4X, 12 and 13

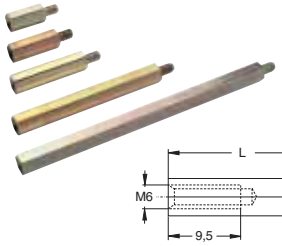
	Screw-fit ▣ IP67, without label holders			
		AP8X4WD	4TBO866003C0100	1

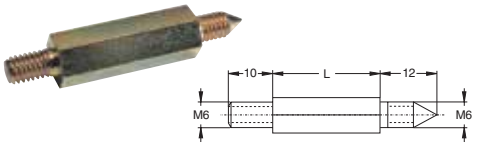
cULus types 3, 3R, 4, 4X, 12 and 13

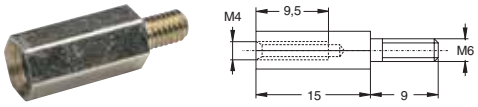
General purpose enclosures

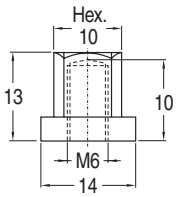
Accessories - General accessories

M4 type rise pillars	L (mm)	Ø A	Ø B	Type	Order code	Pack
 	10	M4	M4	APACC890800	4TBO890800C0100	50
	15	M4	M4	APACC890801	4TBO890801C0100	50
	20	M4	M4	APACC890802	4TBO890802C0100	50
	25	M4	M4	APACC890803	4TBO890803C0100	50
	30	M4	M4	APACC890804	4TBO890804C0100	50
	60	M4	M4	APACC890805	4TBO890805C0100	50
	65	M4	M4	APACC890806	4TBO890806C0100	50
	97	M4	M4	APACC890807	4TBO890807C0100	20
	102	M4	M4	APACC890808	4TBO890808C0100	20

M6 type rise pillars	L (mm)	Ø	Type	Order code	Pack
	15	M6-M6	ACC811337	4TBC811337C0100	100
	20	M6-M6	ACC811338	4TBC811338C0100	100
	25	M6-M6	ACC811454	4TBC811454R0100	100
	30	M6-M6	ACC811339	4TBC811339C0100	100
	35	M6-M6	ACC811455	4TBC811455R0100	100
	45	M6-M6	PS811456	4TBP811456R0100	100
	55	M6-M6	ACC811457	4TBC811457R0100	100
	65	M6-M6	ACC811458	4TBC811458R0100	100
	70	M6-M6	ACC811340	4TBC811340C0100	100
	80	M6-M6	ACC811460	4TBC811460R0100	100
	100	M6-M6	ACC811461	4TBC811461R0100	100
	120	M6-M6	ACC811341	4TBC811341C0100	100

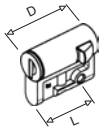
M6 type rise pillars	L (mm)	Ø	Type	Order code	Pack
	60	M6-M6	ACC811342	4TBC811342C0100	100
	30	M6-M6	ACC811343	4TBC811343C0100	100

M4-M6 Type			Type	Order code	Pack
	15	M6-M4	ACC811336	4TBC811336C0100	100

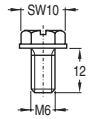
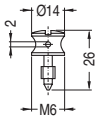
Insulated cap nuts (RAL 7035 Light Gray)	A	B	C	D	Ø E	Type	Order code	Pack
 	M4 15	13.5	8.5	M4	11	KIM601223	2CDB601223R0000	100
	M5 18	17.0	10	M5	14	KIM601224	4TBS601224C0200	100
	M6 22.3	20.4	9	M6	17	KIM601225N	4TBC601225C0100	100
	M8 25.3	24.2	10	M8	20	KIM601226	2CDB601226R0000	50

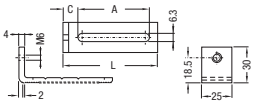
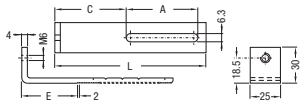
General purpose enclosures

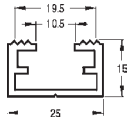
Accessories - General accessories

Locks with semi-cylindrical profile M4 Type				
Standard: D = 40 mm - L = 30.5 mm		**Type**	**Order code**	**Pack**
	With 2 keys V2432-E	PS832030	4TBP832030C0100	1
	With 2 keys 1242-E	PS832031	4TBP832031C0100	1
	With 2 keys 455-E	PS832465	4TBP832465C0100	1
	With 2 keys 405-E	PS832466	4TBP832466R0100	1
	With 1 square key, 8 mm	PS832032	4TBP832032C0100	1
	With 1 square key, 8 mm	PS832033	4TBP832033C0100	1
	With 1 square key, 11 mm	PS832034	4TBP832034C0100	1
	With 1 double-bit key, 3 mm	PS832029	4TBP832029C0100	1

M4 type keys			
	Type	**Order code**	**Pack**
	For security lock no. V2432E	PS832022	4TBP832022C0100	2
	For security lock, 8 mm square	PS832026	4TBP832026C0100	1
	For security lock, 8 mm triangular	PS832027	4TBP832027C0100	1
	For security lock, 11 mm triangular	PS832072	4TBP832072C0100	1
	For security lock, double-bit 3 mm	PS832028	4TBP832028C0100	1

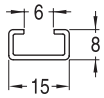
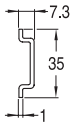
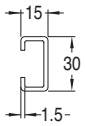
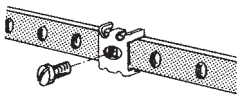
Screws			
	Type	**Order code**	**Pack**
	M6 flange screw		
	ACC811483	4TBC811483C0100	100
	PVC M6 screw for cover plate (sealable)		
	ACC811451	4TBC811451R0100	100

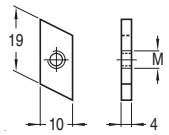
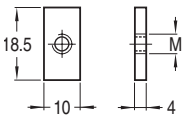
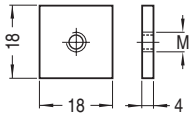
Brackets	L	A	C	E	Type	Order code	Pack
	40	24	9.5	-	ACC811478	4TBC811478R0300	100
	80	64	9.5	-	ACC811479	4TBC811479R0300	100
	120	64	49.5	41.5	ACC811480	4TBC811480C0100	100

Aluminum profiles			
	Type	**Order code**	**Pack**
	Profile length = 3 m		
	ACC811417	4TBC811417C0100	1

General purpose enclosures

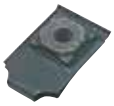
Accessories - General accessories

Galvanized profiles			Type	Order code	Pack
		C profile 15x8x1 Length: 3m	APACC890848	4TBO890848C0100	1
		DIN profile 35x7.3x1 Length: 3m	APACC890847	4TBO890847C0100	1
		C profile 30x15x1.5 Length: 3m	ACC811619	4TBC811619C0100	1
		Slide nuts for C profile 30 x 15 M6	ACC811363	4TBC811363C0100	25
		Slide nuts for C profile 25 x 10 M6	ACC811365	4TBC811365C0100	50
		Jumpers + screws M5 x 13 Max. 2 x 10 mm² per jumper	APACC851123	4TBO851123C0100	10

Metal nuts			Type	Order code	Pack
		M6	ACC811435	4TBC811435C0100	100
		M4	ACC811438	4TBC811438C0100	100
		M6	ACC811446	4TBC811446C0100	100
		M8	ACC811447	4TBC811447C0100	100

General purpose enclosures

Accessories - General accessories

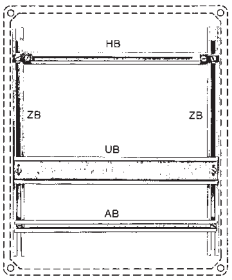
Slide nuts		Type	Order code	Pack
	For perforated mounting plate			
	M4 bolt	AR831328	4TBA831328C0100	50
	M5 bolt	AR831329	4TBA831329C0100	50
	M6 bolt	AR831330	4TBA831330C0100	50

Rise pillars		Type	Order code	Pack
	For mounting on symmetrical DIN rail, height: 21 mm			
		ACC610312	4TBC610312C0100	10

Mounting equipment		Type	Order code	Pack
	Slide + M4 screw			
		APACC890835	4TBO890835C0100	10
	Slide + washer + M4 screw			
		APACC890836	4TBO890836C0100	10
	M5 screw for meter L = 21 mm			
		APACC890844	4TBO890844C0100	20
	M 4 x 8 screw			
		APACC890849	4TBO890849C0100	50
	M4 slider			
		APACC890841	4TBO890841C0100	50
	M4 washer			
		APACC890850	4TBO890850C0100	20
	Coupling set			
		APACC890840	4TBO890840C0100	20

General purpose enclosures

Accessories - General accessories



Profiles	Profile length	Enclosure width	Type	Order code	Pack
	Type AB (C 15 x 8)				
	100 mm	150	APACC890809	4TBO890809C0100	10
	135 mm	185	APACC890812	4TBO890812C0100	10
	250 mm	300	APACC890817	4TBO890817C0100	10
	Type UB(1)				
	90mm	150	APACC890810	4TBO890810C0100	10
	100mm	150	APACC890811	4TBO890811C0100	10
	135mm	185	APACC890814	4TBO890814C0100	10
	200mm	250	APACC890816	4TBO890816C0100	10
	250mm	300	APACC890820	4TBO890820C0100	10
	276mm	300	APACC890819	4TBO890819C0100	10
	320mm	370	APACC890824	4TBO890824C0100	10
	550mm	600	APACC890833	4TBO890833C0100	10
	Type ZB (C 15 x 8)				
	476 mm	55	APACC890830	4TBO890830C0100	10

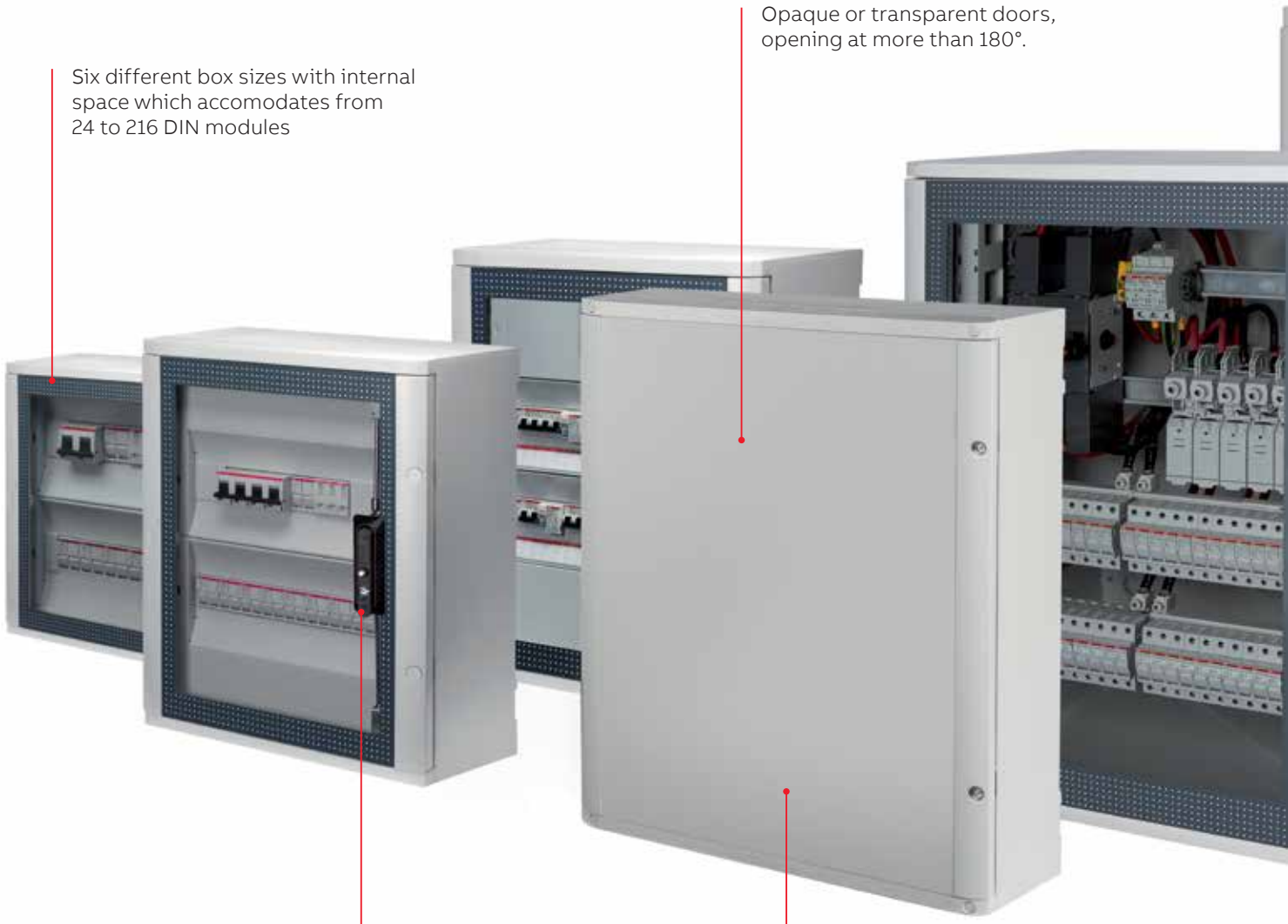
(1) DIN 46.277

Notes

Gemini: the improved range
Robust and flexible thermoplastic enclosures

Six different box sizes with internal space which accomodates from 24 to 216 DIN modules

Opaque or transparent doors, opening at more than 180°.



A single handle operates the door closing mechanism and it can be ordered separately.

Gemini is compliant to IEC62208 and UL 508A standards. IP66 certifies Gemini is completely protected against the infiltration of solid bodies and is resistant to the penetration of jets of water similar to sea waves.

High resistance: flexible and extremely sturdy. Resistant to harsh environments, chemical and atmospheric agents.



Suitable for outdoor installations, in any operating conditions: IP66, IK10, GWT=750°C, -25°C to 100°C

Easy to install

Ready-to-use solutions are available to quickly install all the devices without using tools.

High degree of protection

Extremely sturdy, even against 20 joules impact, dust and water jets (IK10 and IP66 degree of protection), able to operate in a wide range of temperatures (25 up to 100°C), exceptionally resistant to UV and chemical agents and compliant with IEC 62208 and UL 508A standards.

Adaptable to customers' requirements

Available in 6 sizes and with transparent or blind door, with full metal and plastic base plates. Gemini can be used even in very difficult application circumstances and extreme weather conditions.

Eco-friendly

Thanks to co-injection technology, Gemini's thermoplastic not only ensures sturdiness, mechanical features and resistance to oils but it also reduces at the same time the environmental impact at the end of its useful life since it's 100% recyclable.

The thermoplastic co-injection molding process

It's like a "sandwich" of two materials: a compact external covering and an expanded core.
This technology ensures the highest level of mechanical protection against impacts (IK10) .



Easy to install

Versatile and simple. To meet any application.

Offering the best technology for more reliable energy distribution solutions, by protecting people, equipments and resources.

ABB's Gemini enclosures provide a real system of integrated and complementary functions making them configurable into different applications: for automation, distribution and combined automation and distribution.

Gemini is designed to be perfectly compatible with ABB components for low voltage control and monitoring. In mixed applications, the Gemini enclosure is designed to be fitted with System pro M modular devices and Tmax XT moulded-case circuit breakers. To respect safety standards, all the enclosure components are easy to fit and can be fixed to the base plate or to the box frame without using any tools.
Wiring operations are carried out from the front followed by snapping the base plate or the distribution frame onto the box.
The patented frame is fitted with the cable duct incorporated in the uprights.

—

Gemini is also flexible thanks to six different box sizes and internal space to accommodate from 24 to 216 DIN modules.

For control and command applications, three typologies of base plates are available: standard metal, perforated metal and insulated.

Lightweight thermoplastic material makes handling operation easier compared to traditional enclosure, for easier handling.



- Few parts: **snap-on fixing**, **no tools needed**
- **Pre-assembled hinges**
- Door with **180 degree rotation**
- Frame with **integrated vertical wiring duct**
- Frontal cabling: **comfort in the wiring process**
- **A wide range of accessories for automation and distribution applications**

—
01 Gemini doors open at an angle of more than 180° giving easy access to the devices installed inside the switchboard.

—
02 No tools are needed for installation. The doors hook onto the hinges with special hinge pins and are reversible.

—
03 The frame can be extracted to make wiring operations easier at the workbench.

—
04 The fixing hooks supplied in the standard versions are applied without having to use tools.

—
05 Fixing hooks and feet allow the frame to be snap-mounted inside the box.

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01



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High degree of protection
Designed to operate in harsh environments

Gemini is developed and designed by ABB together with the direct collaboration of panel builders, installers and designers in order to create insulating enclosures to better face extreme weather conditions.

Gemini represents the best solution for both distribution and automation (control and command) applications.

For a valid enclosure, the degree of protection is an important factor. Gemini thermoplastic enclosures are totally protected against the infiltration of solid bodies thanks to an IP66 degree of protection (IP30 with the door open and with the appropriate components installed) and a double insulation, even in the event of indirect contact.

—

They are suitable for environments with extreme temperatures, in outdoor applications and severe conditions.

Thermoplastic material retains its characteristics for a long time since it's not subject to corrosion from chemical and atmospheric agents such as dust and sand. In Mining or Construction applications as well as manufacturing plants, Gemini withstands harsh chemicals with high levels of performance.

Typical examples of some Gemini applications can be seen in Manufacturing sites, Solar power plants, greenhouses, chemical plants and in any other environments where distribution and automation demand specific safety requirements and service continuity.

It is particularly recommended in photovoltaic and greenhouse applications, also because of its strong resistance to UV rays.

- **IP66 degree of protection** (IP30 with the door open and with the appropriate components installed)
- **Double insulation from dust and water jets**, even in the event of indirect contact
- Adaptation to environments with extremely high or low temperatures **(-25°C to 100°C)**, in outdoor applications and in severe conditions
- **Resistance to aggressive chemical agents and UV radiation**
- Resistance to fire and abnormal heat **(GWT up to 750°C)**.
- Insulation Voltage: **1000 Vac; 1500 Vdc**
- UL Type **1, 3R, 4, 4X, 12**

Additional tests completed
- Dust/sand resistance (factory internal tested)
- Saline environments (according to IEC 60068-2-52)
- Weathering (according to IEC 60068-2-5)
- Permanent sun exposure (IEC 60068-2-5)







Photovoltaic

In a typical photovoltaic plant the direct current section comprises a generator consisting of strings composed of photovoltaic modules connected in series. The Gemini series of IP66 enclosures are ideal for use as field combiners or as parallel switchboards, i.e. for outdoor installation near the modules. ABB has a range which is currently unique on the market, and has developed a family of plug & operate solutions, i.e. a series of finished, wired and certified switchboards to meet the needs of a huge range of plant types: from single string for residential applications to large-scale solar fields (for more information see specific documentation on abb.com).

Adaptable to customers' requirements
Widest range and numerous accessories for a complete solution

With Gemini, you can benefit from a wide range of enclosures with different dimensions and the possibility to arrange the devices into the DIN-Rail as you need. Moreover, Gemini enclosures have a wide range of accessories for both automation and distribution applications, ensuring maximum versatility and integration.



Accessories

- Various locking systems can be installed (triangular, squared, with handles and ciphered type
- Ventilation and anti-condensation kits: protecting devices from the effects of heat and humidity
- Wall brackets, pole mounting kit and
- pedestal make it easier to install the enclosures in any context.
- Kit for installing Tmax XT circuit-breakers
- The universal drill bit can be used to create the holes to install the cable glands for cable derivations
- Doors with single central handle (as per picture beside) can be fitted with half cylinder locking systems and/or padlock

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01



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02



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—
01 Doors with central single handle are also available.

—
02 Wall-mounted installation is possible using the special mounting brackets.

—
03 ABB logo with its minimal graphic design fits well to hinged doors .

—
04 Pole-mounted or mounted on a special pedestal installation is also possible.

—
05 The standard double-bit locks supplied can be replaced by the version with ciphered key and handle or with square or triangular impression.



—
05

General purpose enclosures

Basic configuration - Gemini switchboards

In the basic configuration, Gemini switchboards are composed of boxes in six different sizes ranging from 335x400x210 mm to 840x1005x360 mm (WxHxD, external measurements) and with opaque or transparent doors. In both versions, the doors are reversible and clip onto the hinges without the need to use tools; the fact that they open at an angle of more than 180° means that it is easy to work on the components installed inside the switchboard.
The seal applied by extrusion along the sides of the doors guarantees IP66 degree of protection. Access to the inside of the switchboard is protected by a standard double bit lock that can be replaced by locks of another type available in the accessories. Boxes and doors can be requested either separately or as combined “box + door” codes, to make filling out the order form more flexible. Inside the packages, the door is always wrapped separately and inserted inside a pocket that protects it from accidental damage until wiring is completed and the switchboard is installed.
Hole-cover plugs to guarantee IP protection and double insulation for wall mounting are also supplied with the pack together with the instruction sheet.

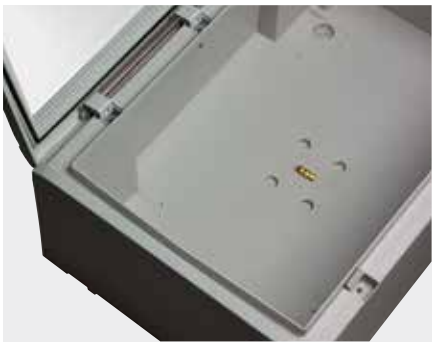
Specifications	
Protection	IP66 (IEC EN 60529) Class II insulation
Strength	Thermoplastic material moulded in co-injection Resistance to abnormal heat and fire up to a temperature of 750 °C (IEC EN 60695-2-11) IK10 (IEC EN 50102) degree of resistance to impacts Protection against chemical and atmospheric agents (water, saline solutions, acids, basic agents, mineral oils, UV rays) Operating temperature -25 °C ÷ +100 °C
Performances	Rated service voltage up to 1000 V Rated insulating DC voltage up to 1000 V Rated insulating AC voltage up to 1500 V
Flexibility of use	6 sizes from 335x400x210 mm to 840x1005x360 mm (WxHxD, external dimensions) DIN 24 to 216 modules
Installation	Snap-on mounting of all components in compliance with safety Standards
Quality and environment	Compliance with CEI EN 62208 international reference Standard, qualification for the requirements of CEI EN 61439-1 Standard, IMQ mark according to EN 62208 Standard. 100% recyclable EN 60068-2-52 resistance to marine environments EN60068-2-5 resistance direct sun exposure UL Listed: UL508A, UL50, UL50E Nema: Types 1, 3R, 4, 4X, 12



Gemini doors open at an angle of more than 180° giving easy access to the devices installed inside the switchboard.



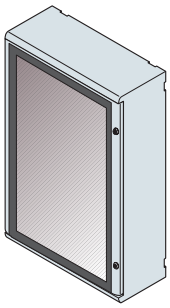
No tools are needed for installation. The doors hook onto the hinges with special hinge pins and are reversible.



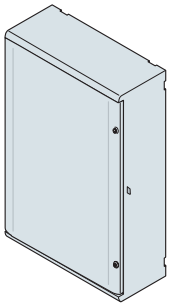
The special structure of the inner perimeter of the box ensures further protection against the penetration of water. The box is supplied with a spirit level.

General purpose enclosures

Basic configuration - Gemini switchboards



Transparent door switchboard



Opaque door switchboard

Boxes and doors

- Available in 6 sizes
- Single order code combined with box and transparent and opaque door
- Pack with door dismounted and wrapped separately
- Door designed so that it can be hooked onto hinges at both vertical sides and mounted without the use of tools
- To be mounted to the wall using internal holes or fixing brackets supplied as accessories
- Door opening at an angle of more than 180°
- RAL 7035 grey color
- Doors supplied with 2 standard double bit locks (3 for sizes 5 and 6) that can be replaced with locks for ciphered key or with square/triangular impression (the standard triplex key is suitable for use with three types of impressions).

Transparent door

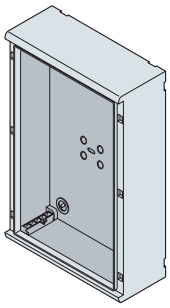
Size	External		Modules		Code	Unit/Pack
	Dimensions WxHxD (mm)	Internal WxHxD (mm)	Max No. DIN mod.	No. vertical mod. (H=150 mm)		
1	335x400x210	250x300x180	24 (12x2)	2	1SL0211A00	1/1
2	460x550x260	375x450x230	54 (18x3)	3	1SL0212A00	1/1
3	460x700x260	375x600x230	72 (18x4)	4	1SL0213A00	1/1
4	590x700x260	500x600x230	96 (24x4)	4	1SL0214A00	1/1
5	590x855x360	500x750x330	120 (24x5)	5	1SL0215A00	1/1
6	840x1005x360	750x900x330	216 (36x6)	6	1SL0216A00	1/1

Opaque door

Size	External		Modules		Code	Unit/Pack
	Dimensions WxHxD (mm)	Internal WxHxD (mm)	Max No. DIN mod.	No. vertical mod. (H=150 mm)		
1	335x400x210	250x300x180	24 (12x2)	2	1SL0201A00	1/1
2	460x550x260	375x450x230	54 (18x3)	3	1SL0202A00	1/1
3	460x700x260	375x600x230	72 (18x4)	4	1SL0203A00	1/1
4	590x700x260	500x600x230	96 (24x4)	4	1SL0204A00	1/1
5	590x855x360	500x750x330	120 (24x5)	5	1SL0205A00	1/1
6	840x1005x360	750x900x330	216 (36x6)	6	1SL0206A00	1/1

General purpose enclosures

Basic configuration - Gemini switchboards



Single box

Single boxes

Size	External dimensions WxHxD (mm)	Internal WxHxD (mm)	Code	Unit/Pack
1	335x400x210	250x300x180	1SL0221A00	1/1
2	460x550x260	375x450x230	1SL0222A00	1/1
3	460x700x260	375x600x230	1SL0223A00	1/1
4	590x700x260	500x600x230	1SL0224A00	1/1
5	590x855x360	500x750x330	1SL0225A00	1/1
6	840x1005x360	750x900x330	1SL0226A00	1/1



Transparent door

Single doors

Transparent door

Size	Box dimensions WxHxD (mm)	Code	Unit/Pack
1	335x400x210	1SL0241A00	1/1
2	460x550x260	1SL0242A00	1/1
3	460x700x260	1SL0243A00	1/1
4	590x700x260	1SL0244A00	1/1
5	590x855x360	1SL0245A00	1/1
6	840x1005x360	1SL0246A00	1/1



Opaque door

Opaque door

Size	Box dimensions WxHxD (mm)	Code	Unit/Pack
1	335x400x210	1SL0231A00	1/1
2	460x550x260	1SL0232A00	1/1
3	460x700x260	1SL0233A00	1/1
4	590x700x260	1SL0234A00	1/1
5	590x855x360	1SL0235A00	1/1
6	840x1005x360	1SL0236A00	1/1

Door with handle

Transparent door with handle

Size	Box dimensions WxHxD (mm)	Code	Unit/Pack
3	460x700x260	1SLM006600A0243	1/1
4	590x700x260	1SLM006600A0244	1/1
5	590x855x360	1SLM006600A0245	1/1
6	840x1005x360	1SLM006600A0246	1/1



Opaque door with handle

Size	Box dimensions WxHxD (mm)	Code	Unit/Pack
3	460x700x260	1SLM006600A0233	1/1
4	590x700x260	1SLM006600A0234	1/1
5	590x855x360	1SLM006600A0235	1/1
6	840x1005x360	1SLM006600A0236	1/1

General purpose enclosures

Components for automation applications

Gemini switchboards are designed to be perfectly compatible with ABB components for low voltage control and monitoring. For these applications they can be equipped with modular devices belonging to the System pro M range, with Tmax moulded-case circuit-breakers and control and signaling devices, creating a truly integrated automation system. When deciding the Gemini layout for control and monitoring applications, not only is it possible to select the box and door in the required size, but you can also select the base plate in one of the three versions in the range.

After wiring with the ducts and the Fix-O-Rapid device, the special standard adjustable feet and hooks must be fitted onto the base plate, allowing it to be inserted inside the box at up to seven different depths and three further levels of adjustment: no tools need to be used to carry out these operations. To finish the job, the inner door can be mounted (reversible and in insulating material), guaranteeing IP30 degree of protection when the switchboard door is open. No tools are needed unless the inner door is equipped with buttons, warning lights, etc.





The fixing hooks and feet supplied in the standard versions are applied without having to use tools, making it possible to install the base plate at seven different depths inside the switchboard. They can also be adjusted at three further positions.



Application of the inner door guarantees IP30 degree of protection when the switchboard door is open.



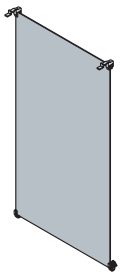




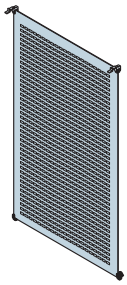
Example of the configuration of a switchboard for an automation application: some ABB control and protection devices are installed on the plate. The inner door is fitted with light-signaling devices.

General purpose enclosures

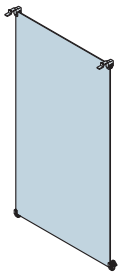
Components for automation applications



Blank metal base plate



Drilled metal base plate



Insulating material base plate

Base plates

- Available in three versions in blank or drilled metal and insulating material
- Positioning at 3 different depths for size 1, 4 different depths for sizes 2-3-4 and 7 different depths for sizes 5-6 (adjustments with 30 mm pitch)
- Supplied with feet and hooks adjustable at three further positions (with 7.5 mm pitch)
- Snap-on mounting
- Plates can also be mounted directly on the base with the special kit.

Blank metal

Size of the switchboard	Code	Unit/Pack
1	1SL0259A00	1/6
2	1SL0260A00	1/6
3	1SL0261A00	1/4
4	1SL0262A00	1/4
5	1SL0263A00	1/4
6	1SL0264A00	1/2

Drilled metal

Size of the switchboard	Code	Unit/Pack
1	1SL0275A00	1/6
2	1SL0276A00	1/6
3	1SL0277A00	1/4
4	1SL0278A00	1/4
5	1SL0279A00	1/4
6	1SL0280A00	1/2

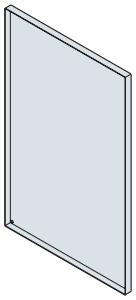
Insulating material

Size of the switchboard	Code	Unit/Pack
1	1SL0267A00	1/6
2	1SL0268A00	1/6
3	1SL0269A00	1/4
4	1SL0270A00	1/4
5	1SL0271A00	1/4
6	1SL0272A00	1/2

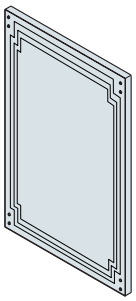
Description	Code	Unit/Pack
Base mounting kit for metal plate	1SL0383A00	1/10

General purpose enclosures

Components for automation applications



Inner door, sizes 1-2



Inner door, sizes 3-4-5-6

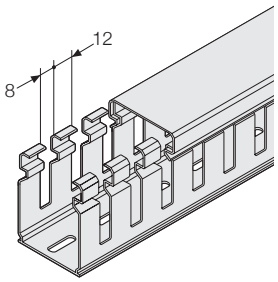
Inner doors

- Made in insulating material
- IP30 degree of protection with door open
- Designed so that door can be hinged onto both vertical sides
- Snap-on mounting and fixing

Size of the switchboard	Code	Unit/Pack
1	1SL0251A00	1/4
2	1SL0252A00	1/4
3	1SL0253A00	1/2
4	1SL0254A00	1/2
5	1SL0255A00	1/2
6	1SL0256A00	1/1

General purpose enclosures

Components for automation applications



Wiring duct with 8/12 mm slot

Wiring ducts

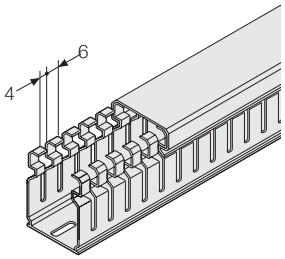
- Made in self-extinguishing thermoplastic material (UL 94 V0), resistant to abnormal heat and fire up to 960 °C (IEC 695-2-1)
- RAL 7030 grey color
- Available in version with 8/12 mm and 4/6 mm slots
- Base strip designed to snap onto Fix-O-Rapid
- Available in standard lengths of 2 m

With 8/12 mm slots

Dimensions WxH (mm)	Code	Weight (kg/m)	Unit/ Pack- meters
15x17	05 019	0,06	46
25x30	05 033	0,21	58
25x40	05 043	0,25	48
25x60	05 063	0,24	34
25x80	05 083	0,29	28
25x100	05 094	0,46	20
40x30	05 035	0,27	40
40x40	05 045	0,31	30
40x60	05 065	0,34	22
40x80	05 085	0,38	36
40x100	05 095	0,53	28
60x30	05 037	0,38	52
60x40	05 047	0,46	40
60x60	05 067	0,47	32
60x80	05 087	0,50	24
60x100	05 096	0,73	20
80x40	05 049	0,47	32
80x60	05 069	0,52	24
80x80	05 089	0,59	16
80x100	05 097	0,91	14
100x40	05 051	0,55	24
100x60	05 071	0,59	20
100x80	05 091	0,68	16
100x100	05 098	1,06	8
120x40	05 053	0,65	20
120x60	05 073	0,73	14
120x80	05 093	0,89	12
150x100	05 099	1,37	8

General purpose enclosures

Components for automation applications



Wiring duct with 4/6 mm slot

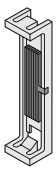
With 4/6 mm slots

Dimensions WxH (mm)	Code	Weight (kg/m)	Unit/ Pack-meters
15x17	05 119	0,06	46
25x30	05 133	0,21	58
25x40	05 143	0,25	48
25x60	05 163	0,24	34
25x80	05 183	0,29	28
25x100	05 194	0,46	20
40x30	05 135	0,27	40
40x40	05 145	0,31	30
40x60	05 165	0,34	22
40x80	05 185	0,38	36
40x100	05 195	0,53	28
60x30	05 137	0,38	52
60x40	05 147	0,46	40
60x60	05 167	0,47	32
60x80	05 187	0,50	24
60x100	05 196	0,73	20
80x40	05 149	0,47	32
80x60	05 169	0,52	24
80x80	05 189	0,59	16
80x100	05 197	0,91	14
100x40	05 151	0,55	24
100x60	05 171	0,59	20
100x80	05 191	0,68	16
100x100	05 198	1,06	8
120x40	05 153	0,65	20
120x60	05 173	0,73	14
120x80	05 193	0,89	12
150x100	05 199	1,37	8

Fix-O-Rapid

Rapid mounting device for attaching wiring ducts to the base plate: it snaps onto the plate after drilling a ø 7 mm hole. Two Fix-O-Rapid devices are enough for each wiring duct section. Fix-O-Rapid guarantees maximum insulation since it does not involve the use of any metal component inside the wiring duct. If the wrong wiring duct is selected, it can be dismounted and a version with the same base and a different height can be attached to the Fix-O-Rapid.

Description	Code	Unit/ Pack-no. pieces
Rapid mounting device for wiring duct, W 25 mm	05 270	20/600
Rapid mounting device for wiring duct, W 40 mm	05 272	20/600
Rapid mounting device for wiring duct, W 60 mm	05 274	20/600
Rapid mounting device for wiring duct, W 80 mm	05 276	20/240
Rapid mounting device for wiring duct, W 100 mm	05 278	20/240
Rapid mounting device for wiring duct, W 120 mm	05 280	20/240
Rapid mounting device for wiring duct, W 150 mm	05 282	20/240



Fix-O-Rapid

General purpose enclosures

Components for distribution and mixed applications

In distribution and mixed applications, the Gemini switchboard is designed to be fitted with System pro M modular devices and Tmax moulded-case circuit breakers. The frame is the load-bearing element of the configuration: DIN rails, partial modular plates and the special Tmax mounting and cabling kits are snapped onto the uprights.
All the components can be adjusted to six different depths with a pitch of 12.5 mm and arranged at heights with standard installation pitch of 150, 225 and 300 mm and a distance of 75 mm between the rows.

Blank or drilled front panels are applied to protect the equipment and these can be hinged onto both sides; the cables are housed inside the vertical wiring duct integrated in the uprights according to an exclusive ABB patent. Wiring is carried out by pulling out the frame and working from the front; the ergonomic grip and the standard feet and snap-on hooks supplied make it easy to insert it inside the switchboard after the job is finished.



The DIN rail is supplied with special hooks already in position for attaching to the uprights.



The upright with the incorporated wiring duct is an exclusive ABB patent that rationalizes the path of cables inside the switchboard.



The depth at which the DIN rail, the modular plates, the kit for fixing the Tmax circuit breakers and the wiring duct are positioned can be adjusted with a simple sliding movement.



The frame can be extracted to make wiring operations easier at the workbench.



The blank and drilled panels are hinged onto both sides; the description of the installed components can be kept in the special compartment protected by a transparent, hinged flange.

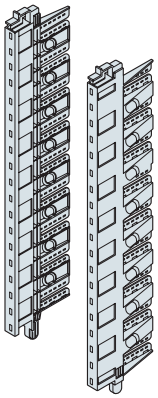




Fixing hooks and feet allow the frame to be snap-mounted inside the box.

General purpose enclosures

Components for distribution and mixed applications

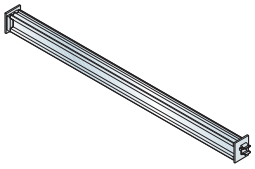


Uprights

Uprights

- Incorporated vertical wiring duct (ABB patent)
- Snap-on mounting of all components (installation pitch of 75 mm)
- Snap-on insertion into box
- Depth of installed components adjusted at a pitch of 12.5 mm (4 positions for uprights of size 1 and 6 positions for the remaining ones)
- Ergonomic grip to make it easy to insert and extract

Size of the switchboard	Code	Unit/Pack
1	1SL0283A00	1/4
2	1SL0284A00	1/4
3	1SL0285A00	1/4
4	1SL0285A00	1/4
5	1SL0286A00	1/2
6	1SL0287A00	1/1



DIN rail

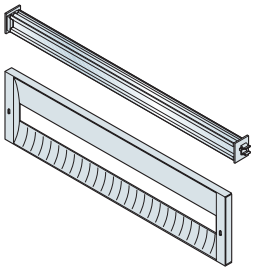
DIN rails

- Two-sided version
- Supplied with mounting supports that snap onto uprights
- Depth adjustment on uprights
- Designed so that rapid Unifix L mounting bars can be snapped on

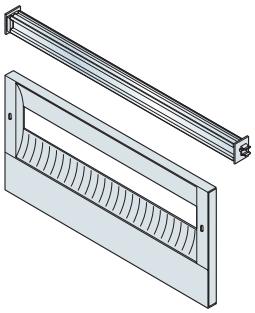
Size of the switchboard	Modules per row	Code	Unit/Pack
1	12	1SL0290A00	1/10
2	18	1SL0291A00	1/10
3	18	1SL0291A00	1/10
4	24	1SL0292A00	1/10
5	24	1SL0292A00	1/10
6	36	1SL0293A00	1/10

General purpose enclosures

Components for distribution and mixed applications



Drilled panel, 1 module



Drilled panel, 1 + 1/2 module

Drilled panels

- Supplied with DIN rail complete with supports to snap onto uprights and adjustable in depth
- Available in 1 module (H 150 mm) and 1+1/2 module (H 225 mm, sizes 2-6) dimensions
- Designed to be hinged onto both vertical sides
- Snap-on mounting onto uprights (in compliance with reference Standards a tool must be used for removing the panel)
- Document pocket for storing descriptions of installed devices

1 module

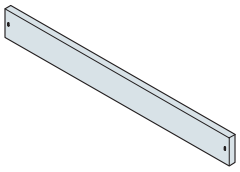
Size of the switchboard	Code	Unit/Pack
1	1SL0307A00	1/8
2	1SL0308A00	1/8
3	1SL0308A00	1/8
4	1SL0309A00	1/4
5	1SL0309A00	1/4
6	1SL0310A00	1/2

1 + 1/2 module

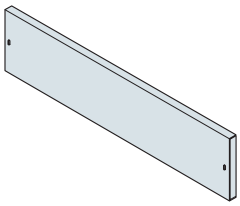
Size of the switchboard	Code	Unit/Pack
2	1SL0313A00	1/8
3	1SL0313A00	1/8
4	1SL0314A00	1/4
5	1SL0314A00	1/4
6	1SL0315A00	1/2

General purpose enclosures

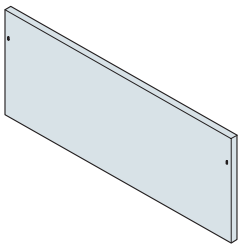
Components for distribution and mixed applications



Blank panel, 1/2 module



Blank panel, 1 module



Blank panel, 2 modules

Blank panels

- Available in 1/2 module (H 75 mm), 1 module (H 150 mm) and 2 modules (H 300 mm) dimensions
- H 150 mm and H 300 panels designed to be hinged onto both vertical sides
- Snap-on mounting onto uprights (in compliance with reference Standards a tool must be used for removing the panel)

1/2 module

Size of the switchboard	Code	Unit/Pack
1	1SL0318A00	1/10
2	1SL0319A00	1/10
3	1SL0319A00	1/10
4	1SL0320A00	1/6
5	1SL0320A00	1/6
6	1SL0321A00	1/4

1 module

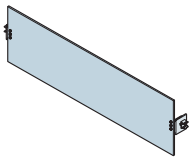
Size of the switchboard	Code	Unit/Pack
1	1SL0324A00	1/8
2	1SL0325A00	1/8
3	1SL0325A00	1/8
4	1SL0326A00	1/4
5	1SL0326A00	1/4
6	1SL0327A00	1/4

2 modules

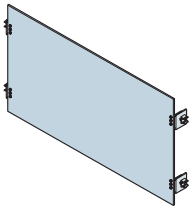
Size of the switchboard	Code	Unit/Pack
1	1SL0330A00	1/6
2	1SL0331A00	1/6
3	1SL0331A00	1/6
4	1SL0332A00	1/4
5	1SL0332A00	1/4
6	1SL0333A00	1/4

General purpose enclosures

Components for distribution and mixed applications



Partial modular plate, 1 module



Partial modular plate, 2 modules

Partial modular plates

- Available in 1 module (H 150 mm) and 2 module (H 300 mm, sizes 2-6) dimensions
- Snap-on mounting onto uprights with depth adjustment.

1 module

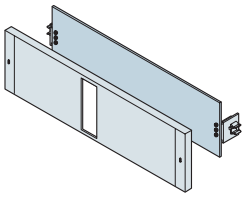
Size of the switchboard	Code	Unit/Pack
1	1SL0296A00	1/6
2	1SL0297A00	1/4
3	1SL0297A00	1/4
4	1SL0298A00	1/4
5	1SL0298A00	1/4
6	1SL0299A00	1/2

2 modules

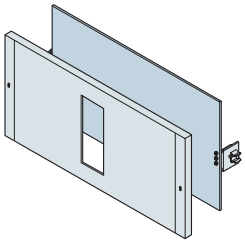
Size of the switchboard	Code	Unit/Pack
2	1SL0302A00	1/4
3	1SL0302A00	1/4
4	1SL0303A00	1/4
5	1SL0303A00	1/4
6	1SL0304A00	1/2

General purpose enclosures

Components for distribution and mixed applications



H 150 mm



H 300 mm

Kit for installing Tmax XT moulded-case circuit breakers

- For installing Tmax XT moulded-case circuit breakers in fixed version with front terminals
- Composed of a plate with special drilled holes and a protection panel with vertical slots that can be hinged on both sides and snap-on mounted (in compliance with reference Standards a tool must be used for removing the panel)
- Available for sizes 2-6
- Snap-on mounting onto uprights with the possibility of adjusting the plate depth

H 150 mm

Size of the switchboard	Code	Unit/Pack
2	1SL0373A00	1/4
3	1SL0373A00	1/4
4	1SL0374A00	1/4
5	1SL0374A00	1/4
6	1SL0375A00	1/2

H 300 mm

Size of the switchboard	Code	Unit/Pack
2	1SL0376A00	1/4
3	1SL0376A00	1/4
4	1SL0377A00	1/4
5	1SL0377A00	1/4
6	1SL0378A00	1/2

General purpose enclosures

Components for distribution and mixed applications

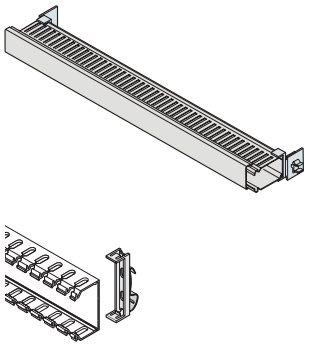
Kit selection

Size	Installation	XT1				XT2				XT3				XT4			
		3p	4p	3p D	4p D	3p	4p	3p D	4p D	3p	4p	3p D	4p D	3p	4p	3p D	4p D
1	D	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	O1	■	■	■	■	■	■	■	■	■	■			■	■		
	T	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2	D	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	K1	■	■	■													
	K2		■	■	■					■	■	■	■				
	O1	■	■	■	■	■	■	■	■	■	■	■		■	■	■	■
	O2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	T	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3	D	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	K1	■	■	■													
	K2		■	■	■					■	■	■	■				
	O1	■	■	■	■	■	■	■	■	■	■	■		■	■	■	
	O2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	T	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4	D	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	K1	■	■	■													
	K2		■	■	■					■	■	■	■				
	O1	■	■	■	■	■	■	■	■	■	■	■		■	■	■	■
	O2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	T	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5	D	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	K1	■	■	■													
	K2		■	■	■					■	■	■	■				
	O1	■	■	■	■	■	■	■	■	■	■	■		■	■	■	
	O2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	T	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6	D	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	K1	■	■	■													
	K2		■	■	■					■	■	■	■				
	O1	■	■	■	■	■	■	■	■	■	■	■		■	■	■	■
	O2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	T	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

Caption
- D, installation on DIN rail
- K1, installation with Tmax kit H = 150 (holes made)
- K2, installation with Tmax kit H = 300 (holes made)
- O1, installation on modular plate (1 module, H = 150 mm)
- O2, installation on modular plate (2 modules, H = 300 mm)
- T, installation on total base plate

General purpose enclosures

Components for distribution and mixed applications



Wiring kit

Wiring kits

- omposed of wiring duct in versions 25x60 mm and 40x60 mm (WxH, 8-12 mm slots) and Fix-O-Rapid
- Snap-on mounting on uprights with depth adjustment

Wiring duct 25x60 mm

Size of the switchboard	Code	Unit/Pack
1	1SL0353A00	1/4
2	1SL0354A00	1/4
3	1SL0354A00	1/4
4	1SL0355A00	1/4
5	1SL0355A00	1/4
6	1SL0356A00	1/4

Wiring duct 40x60 mm

Size of the switchboard	Code	Unit/Pack
1	1SL0360A00	1/4
2	1SL0361A00	1/4
3	1SL0361A00	1/4
4	1SL0362A00	1/4
5	1SL0362A00	1/4
6	1SL0363A00	1/4

General purpose enclosures
Accessories

Gemini switchboards have the same accessories for both automation and distribution applications, ensuring maximum versatility and integration of functions. In particular, the ventilation and anti-condensation kits make it even safer for the devices to run, protecting them from the effects of heat and humidity while the wall brackets, pole mounting kit and pedestal make it easier to install the switchboards in any context.

Three different kinds of locks are supplied for the doors with which it is possible to replace the standard double bit model. The universal drill bit can be used to open the side branch connections. Module covers hide the unused modules of the DIN rail guaranteeing IP40 protection when the door is open in distribution and mixed configurations.





The standard locks supplied can be replaced by the version with ciphered key and handle or with square or triangular impression.



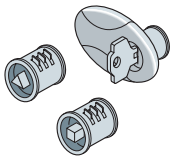


Gemini wall-mounted installation using the special mounting brackets.



The fact that Gemini switchboards can also be pole-mounted (see photo above) or mounted on a special pedestal (see photo at the side) makes them suitable for any application situation.

General purpose enclosures
Accessories



Locks

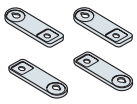
Locks
Available in three versions with ciphered key and handle, with triangular and square impressions.

Description	Code	Unit/Pack
Lock with Yale type ciphered key and handle	1SL0340A00	1/10
Lock with triangular impression	1SL0341A00	1/10
Lock with square impression	1SL0339A00	1/10
Tamper-proof locking kit (code 1SLO340A00 included)	1SL0458A00	1/10
Gemini standard lock	1SL0459A00	1/10

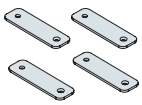


Locks for doors with handle

Description	Code	Unit/Pack
Yale Lock for door with handle	1SLM006600A0459	1/5
Ronis 455 lock for door with handle	1SLM006600A0460	1/5



Plastic wall brackets

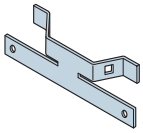


Stainless steel wall brackets

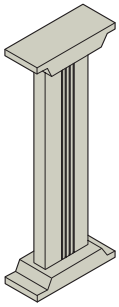
Mounting elements
Guarantee optimum wall, pole and floor mounting conditions.

Description	Code	Unit/Pack
Horizontal and vertical plastic wall brackets (4 pieces)*	1SL0342A00	1/10
Horizontal and vertical plastic wall brackets UL listed (4 pieces)	1SLM006600A0342	1/10
Horizontal and vertical stainless steel wall brackets (4 pieces)	1SL0401A00	1/10
Pole mounting kit for sizes 1 switchboards**	1SL0343A00	1/4
Pole mounting kit for sizes 2-3 switchboards**	1SL0344A00	1/4
Pole mounting kit for sizes 4-5 switchboards**	1SL0345A00	1/2
Pole mounting kit for size 6 switchboards**	1SL0346A00	1/2
IP43 Floor mounting pedestal for sizes 1-4	1SL0352A00	1/1

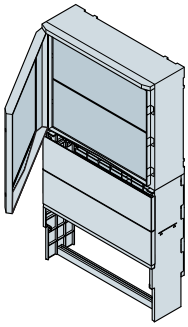
* There are two types of inserts for adapting brackets to ø 6 e 8 mm fixing devices.
** The kit includes two elements for fixing the upper and the lower part of the switchboard.



Pole mounting kit



Floor mounting pedestal



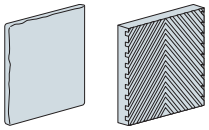
Pedestal

Pedestals
Allows the application of the Gemini switchboard to the ground without the need to prepare the construction of concrete footings or foundations when the pedestal is buried.

Description	Code	Unit/Pack
Pedestal Gemini size 4	1SL0464A00	1/1
Pedestal Gemini size 5	1SL0465A00	1/1
Pedestal Gemini size 6	1SL0466A00	1/1

General purpose enclosures

Accessories



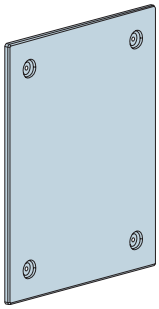
Ventilation kit

IP21/54 ventilation kits

- Composed of plastic grills and filter to ensure switchboard ventilation.
- Degree of protection without filter: IP21.
- Degree of protection with filter: IP54.
- Preassembled seal.

Description	Dimensions (mm)	Code	Unit/Pack
Grid + air flow kit	105x105	EN0105K	1/1
Grid + air flow kit (not suitable for size. 1)	150x150	EN0150K	1/1
Grid + air flow kit (not suitable for size. 1)	204x204	EN0204K	1/1

Note: screws not included; use 4 self lock screws 2,9x13 or ask for order code 1SL0384A00.

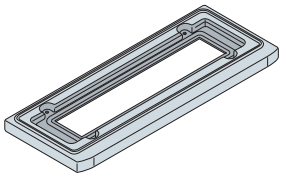


Base cover

Base covers

For aesthetic as well as functional purposes, in particular for pedestal installations.

Size of the switchboard	Code	Unit/Pack
1	1SL0385A00	1/4
2	1SL0386A00	1/4
3	1SL0387A00	1/2
4	1SL0388A00	1/2
5	1SL0389A00	1/2
6	1SL0390A00	1/2



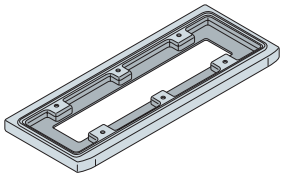
Coupling kit

Coupling kits

It follows the aesthetic outline of the boxes.

Description	Code	Unit/Pack
Vertical coupling kit for sizes 2-3 switchboards	1SL0413A00	1/2
Vertical coupling kit for sizes 4 switchboards	1SL0414A00	1/2
Vertical coupling kit for sizes 5 switchboards	1SL0415A00	1/2
Vertical coupling kit for sizes 6 switchboards	1SL0416A00	1/2

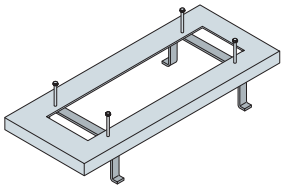
General purpose enclosures
Accessories



Bottom base

Bottom bases H 30
For fixing the Gemini switchboard directly to the floor.

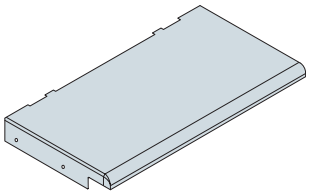
Description	Code	Unit/Pack
Bottom base for size 2-3 switchboards	1SL0423A00	1/2
Bottom base for size 4 switchboards	1SL0424A00	1/2
Bottom base for size 5 switchboards	1SL0425A00	1/2
Bottom base for size 6 switchboards	1SL0426A00	1/2



Fixed frame

Fixed frames
- In combination with bottom base H 30
- For fixing onto poured concrete floors and bases.

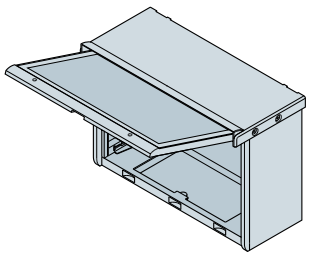
Description	Code	Unit/Pack
Fixed frame for size 2-3 switchboards	1SL0433A00	1/2
Fixed frame for size 4 switchboards	1SL0434A00	1/2
Fixed frame for size 5 switchboards	1SL0435A00	1/2
Fixed frame for size 6 switchboards	1SL0436A00	1/2



Integral cover

Integral covers

Description	Code	Unit/Pack
Integral cover for size 1 switchboard	1SL0451A00	1/1
INtegral cover for size 2-3 switchboard	1SL0452A00	1/1
Integral cover for size 4 switchboard	1SL0454A00	1/1
Integral cover for size 5switchboard	1SL0455A00	1/1
Integral cover for size 6 switchboard	1SL0456A00	1/1

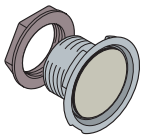


Horizontal Kit Gemini

Horizontal Kits
Kit for a proper opening of switchboard upward.

Description	Code	Unit/Pack
Horizontal Kit Gemini size 3	1SL0470A00	1/1
Horizontal Kit Gemini size 4	1SL0471A00	1/1
Horizontal Kit Gemini size 5	1SL0472A00	1/1

General purpose enclosures
Accessories



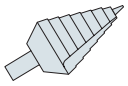
Base socket

Anti-condensation kits

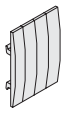
- Kit in special material to prevent condensation from forming inside the switchboard: it include GORE™ MEMBRANE VENTING
- Impermeable to water (pressure): 0.6 bar / 60 sec.
- Air flow: 400 ml/min. (dp = 70 mbar)
- 1 kit for sizes 1-2, 2 kits for sizes 3-4 and 3 kits for sizes 5-6 are recommended to guarantee adequate dissipation; in any case the number of kits to be installed depend on the number and type of devices installed inside the switchboard.
- IP66

Description	Code	Unit/Pack
Anti-condensation kit	1SL0351A00	1/6

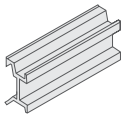
Other accessories



Universal drill bit



Module covers



Spacer

Description	Code	Unit/Pack
Universal drill bit	12894	1/30
Module covers in RAL 7035 grey, 4 modules	12863	25/300
Plastic spacer for installing modular devices and moulded-case circuit breakers at the same depth	12851	10/60
Small bag plate mounting kit	1SL0383A00	1/10
Small bag for ventilation kit	1SL0384A00	10/50

Temperature management
IP20 heater

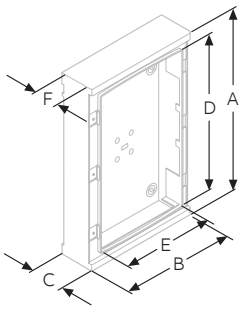
Description	Dimensions (mm)			Code	Package/ No. of pieces
	H	W	D		
Anti-condensation heater 30W, 110-240 Vac-dc	115	42	42	VA7930	1/1
Anti-condensation heater 50W, 110-240 Vac-dcc	165	42	42	VA7950	1/1
Anti-condensation heater 75W, 110-240 Vac-dc	210	42	42	VA7975	1/1
Anti-condensation heater 100W, 110-240 Vac-dc	165	42	51	VA7910	1/1
Anti-condensation heater 150W, 110-240 Vac-dc	146	82	51	VA7915	1/1
Anti-condensation heater with fan 300W, 230 Vac-dc	148	82	91	VA8300	1/1

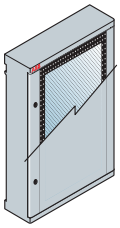
For technical details, see page 50.

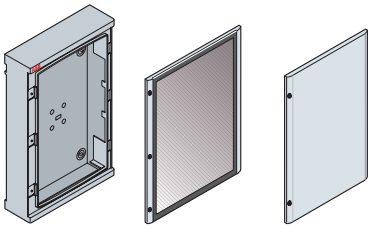
General purpose enclosures

Fast selection table

Basic configuration

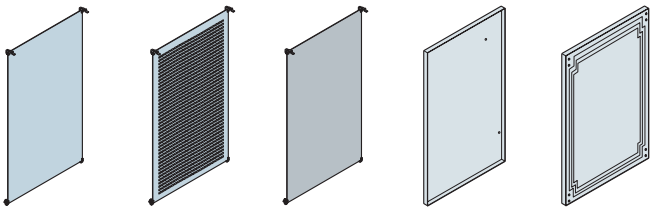




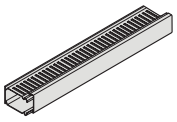


Size	No. of installable DIN modules	No. of vertical mod.	External dimensions			Internal dimensions			Complete switchboard		Box	Door	
	(mod. x row)	(H=150 mm)	A	B	C	D	E	F	Trasparent door	Opaque door		Transparent	Opaque
1	24 (12x2)	2	400	335	210	300	250	180	1SL0211A00	1SL0201A00	1SL0221A00	1SL0241A00	1SL0231A00
2	54 (18x3)	3	550	460	260	450	375	230	1SL0212A00	1SL0202A00	1SL0222A00	1SL0242A00	1SL0232A00
3	72 (18x4)	4	700	460	260	600	375	230	1SL0213A00	1SL0203A00	1SL0223A00	1SL0243A00	1SL0233A00
4	96 (24x4)	4	700	590	260	600	500	230	1SL0214A00	1SL0204A00	1SL0224A00	1SL0244A00	1SL0234A00
5	120 (24x5)	5	855	590	360	750	500	330	1SL0215A00	1SL0205A00	1SL0225A00	1SL0245A00	1SL0235A00
6	216 (36x6)	6	1005	840	360	900	750	330	1SL0216A00	1SL0206A00	1SL0226A00	1SL0246A00	1SL0236A00

Components for automation



Size	Base plate			Inner door	
	Blank	Drilled	Insulating	Former version	New version
1	1SL0259A00	1SL0275A00	1SL0267A00	1SL0251A00	-
2	1SL0260A00	1SL0276A00	1SL0268A00	1SL0252A00	-
3	1SL0261A00	1SL0277A00	1SL0269A00	-	1SL0253A00
4	1SL0262A00	1SL0278A00	1SL0270A00	-	1SL0254A00
5	1SL0263A00	1SL0279A00	1SL0271A00	-	1SL0255A00
6	1SL0264A00	1SL0280A00	1SL0272A00	-	1SL0256A00





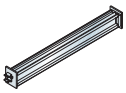
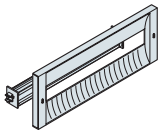
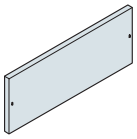
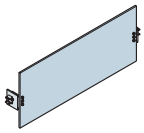
Accessories for distribution

Wiring ducts	Fix-O-Rapid
Check the ABB Library	

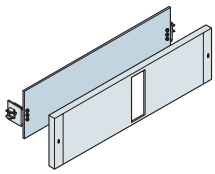
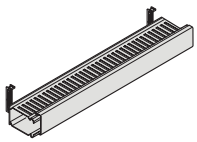
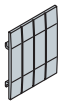
General purpose enclosures

Fast selection table

Components for automation

Size	Uprights	DIN rail	Drilled panel		Blank panel			Modular plate	
			H=150 mm	H=225 mm	H=75 mm	H=150mm	H=300 mm	H=150 mm	H=300 mm
1	1SL0283A00	1SL0290A00	1SL0307A00	-	1SL0318A00	1SL0324A00	1SL0330A00	1SL0296A00	-
2	1SL0284A00	1SL0291A00	1SL0308A00	1SL0313A00	1SL0319A00	1SL0325A00	1SL0331A00	1SL0297A00	1SL0302A00
3	1SL0285A00	1SL0291A00	1SL0308A00	1SL0313A00	1SL0319A00	1SL0325A00	1SL0331A00	1SL0297A00	1SL0302A00
4	1SL0285A00	1SL0292A00	1SL0309A00	1SL0314A00	1SL0320A00	1SL0326A00	1SL0332A00	1SL0298A00	1SL0303A00
5	1SL0286A00	1SL0292A00	1SL0309A00	1SL0314A00	1SL0320A00	1SL0326A00	1SL0332A00	1SL0298A00	1SL0303A00
6	1SL0287A00	1SL0293A00	1SL0310A00	1SL0315A00	1SL0321A00	1SL0327A00	1SL0333A00	1SL0299A00	1SL0304A00

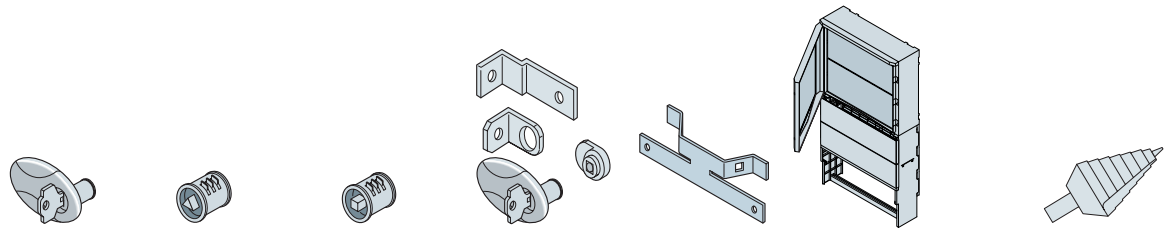
Accessories for distribution

Size	Kit for Tmax XT		x-O-Rapid kit with wiring duct		Module covers RAL 7035
	H. 150 mm	H. 300 mm	25x60 mm	40x60 mm	
1	-	-	1SL0353A00	1SL0360A00	12863
2	1SL0373A00	1SL0376A00	1SL0354A00	1SL0361A00	
3	1SL0373A00	1SL0376A00	1SL0354A00	1SL0361A00	
4	1SL0374A00	1SL0377A00	1SL0355A00	1SL0362A00	
5	1SL0374A00	1SL0377A00	1SL0355A00	1SL0362A00	
6	1SL0375A00	1SL0378A00	1SL0356A00	1SL0363A00	

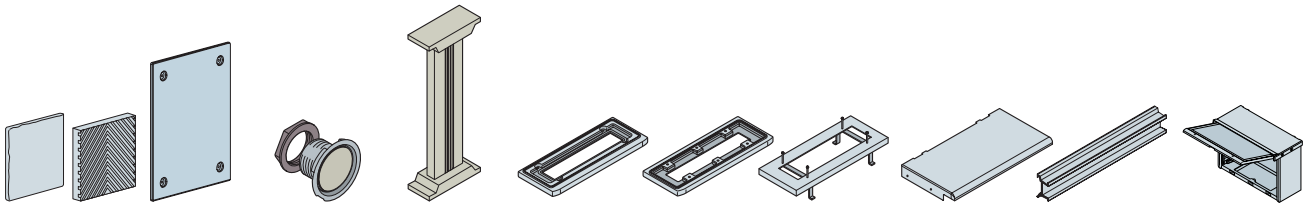
General purpose enclosures

Fast selection table

Accessories common to the whole range



Size	Lock with handle	Lock with triangular impression	Lock with square impression	Anti tampering locking kit	Pole installation kit	Pedestal	Universal drill bit	Base mounting kit for metal and insulated plates
1	1SL0340A00	1SL0341A00	1SL0339A00	1SL0458A00	1SL0343A00	-	12894	1SL0383A00
2					1SL0344A00	-		
3					1SL0344A00	-		
4					1SL0345A00	1SL0464A00		
5					1SL0345A00	1SL0465A00		
6					1SL0346A00	1SL0466A00		



Size	Ventilation kit	Base cover	Anti condensation kit	Floor pedestal	Coupling kit	Bottom base H 30	Fixed frame	Integral cover	Depth adapter	Horizontal kit
1	Check the ABB Library	1SL0385A00	1SL0351A00	1SL0352A00	-	-	-	1SL0451A00	12851	-
2		1SL0386A00			1SL0413A00	1SL0423A00	1SL0433A00	1SL0452A00		1SL0470A00
3		1SL0387A00			1SL0413A00	1SL0423A00	1SL0433A00	1SL0452A00		1SL0471A00
4		1SL0388A00			1SL0414A00	1SL0424A00	1SL0434A00	1SL0454A00		
5		1SL0389A00		-	1SL0415A00	1SL0425A00	1SL0435A00	1SL0455A00		1SL0472A00
6		1SL0390A00		-	1SL0416A00	1SL0426A00	1SL0436A00	1SL0456A00		

General purpose enclosures

Fast selection table

Door with handle



Transparent door with handle		
Size	**Box dimensions WxHxD (mm)**	**Code**
3	460x700x260	1SLM006600A0243
4	590x700x260	1SLM006600A0244
5	590x855x360	1SLM006600A0245
6	840x1005x360	1SLM006600A0246

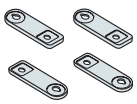
Opaque door with handle		
Size	**Box dimensions WxHxD (mm)**	**Code**
3	460x700x260	1SLM006600A0233
4	590x700x260	1SLM006600A0234
5	590x855x360	1SLM006600A0235
6	840x1005x360	1SLM006600A0236

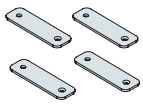
Accessories



Lock with handle	
Description	**Code**
Yale Lock for door with handle	1SLM006600A0459
Ronis 455 lock for door with handle	1SLM006600A0460

Mounting elements



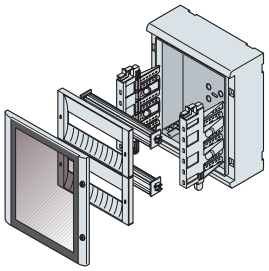


Horizontal and vertical plastic wall brackets (4 pieces)*	Horizontal and vertical stainless steel wall brackets (4 pieces)
1SL0342A00	1SL0401A00

* There are two types of inserts for adapting brackets to ø 6 e 8 mm fixing devices.

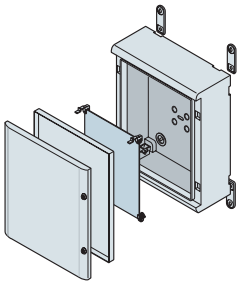
General purpose enclosures
Configurations examples

The selection of components for the configuration of Gemini switchboards depends on the space available and the type of application. Two examples for each size are given below.

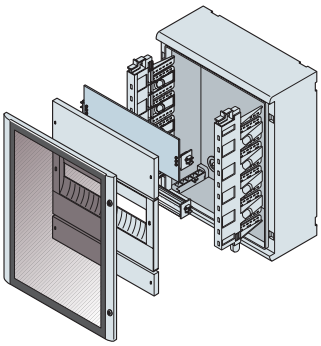


Size 1

Distribution	
Box + transparent door	1SL0211A00
Uprights	1SL0283A00
1-mod. drilled panel + DIN rail	1SL0307A00 (x2)

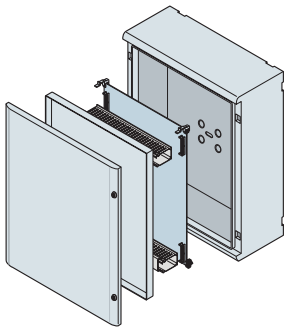


Automation	
Box + opaque door	1SL0201A00
Metal base plate	1SL0259A00
Inner door	1SL0251A00
Wall-mounting brackets	1SL0342A00



Size 2

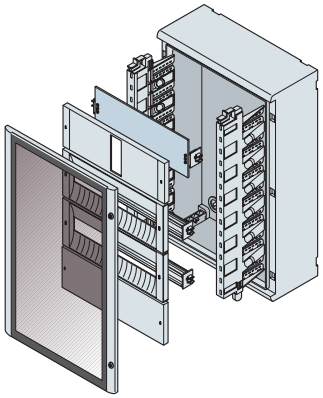
Distribution/Mixed	
Box + transparent door	1SL0212A00
Uprights	1SL0284A00
Modular plate 1 mod.	1SL0297A00
Blank panel 1 mod.	1SL0325A00
Drilled panel 1+1/2 mod. + DIN rail	1SL0313A00
Blank panel 1/2 mod.	1SL0319A00
Module covers	12863

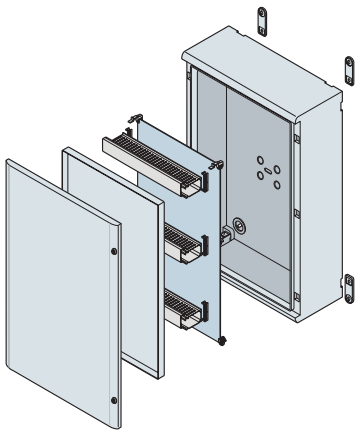


Automation	
Box + opaque door	1SL0202A00
Metal base plate	1SL0260A00
Inner door	1SL0252A00
Wiring duct	Check the ABB Library
Fix-O-Rapid	Check the ABB Library

General purpose enclosures

Configurations examples

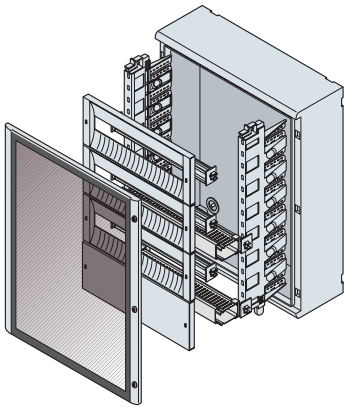


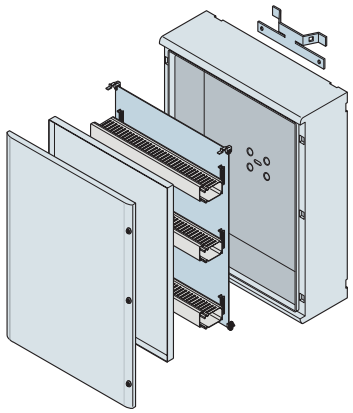


Size 3

Distribution/Mixed	
Box + transparent door	1SL0213A00
Uprights	1SL0285A00
Kit for Tmax	1SL0336A00
Drilled panel 1 mod. + DIN rail	1SL0308A00(x2)
DIN rail	1SL0291A00
Blank panel 1 mod.	1SL0325A00

Automation	
Box + opaque door	1SL0203A00
Base insulating plate	1SL0269A00
Inner door	1SL0253A00
Wiring duct	Check the ABB Library
Fix-O-Rapid	Check the ABB Library
Wall-mounting brackets	1SL0342A00





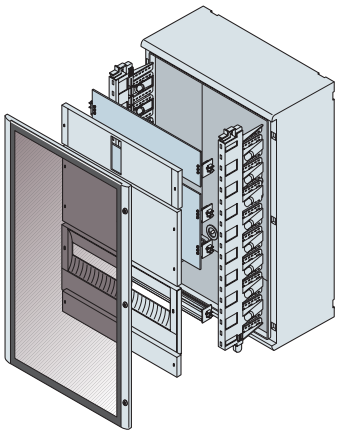
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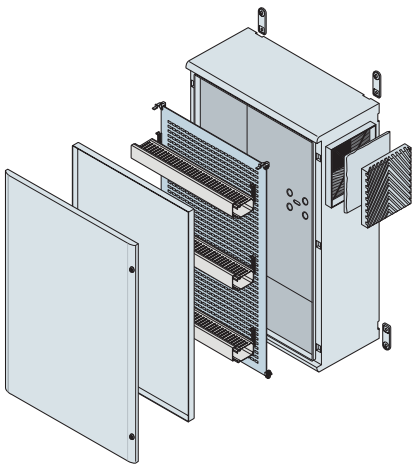
Distribution/Mixed	
Box + transparent door	1SL0214A00
Uprights	1SL0285A00
Drilled panel 1 mod. + DIN rail	1SL0309A00 (x3)
Blank panel 1 mod.	1SL0326A00
Wiring kit 25x60 mm	1SL0355A00 (x2)
DIN rail	1SL0292A00
Module covers	12863

Automation	
Box + opaque door	1SL0204A00
Metal base plate	1SL0262A00
Inner door	1SL0254A00
Wiring duct	Check the ABB Library
Fix-O-Rapid	Check the ABB Library
Fixing on pole kit	1SL0345A00

General purpose enclosures

Configurations examples

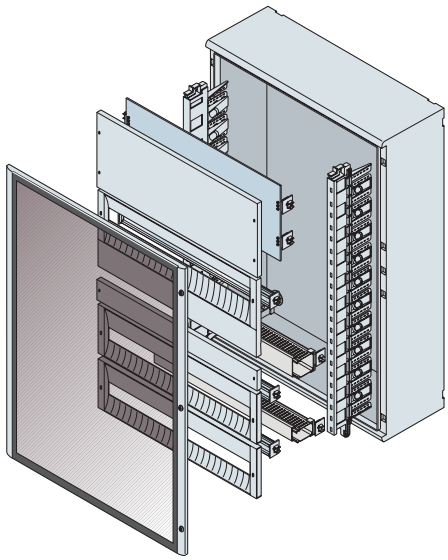


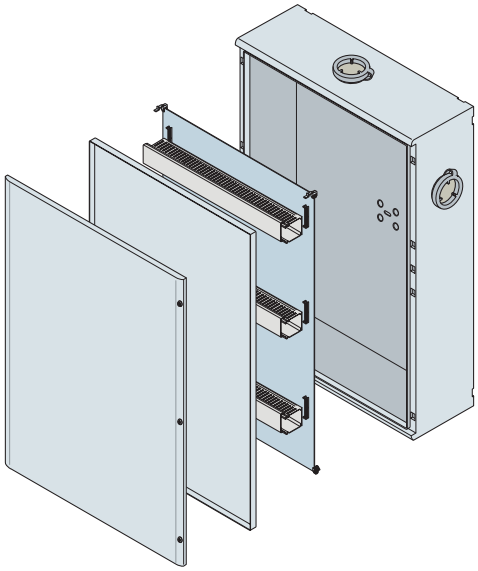


Size 5

Distribution/Mixed	
Box + transparent door	1SL0215A00
Uprights	1SL0286A00
Kit for Tmax	1SL0337A00
Modular plate 2 mod.	1SL0303A00
Blank panel 2 mod.	1SL0332A00
Drilled panel 1+1/2 mod.	1SL0314A00
Blank panel 1/2 mod.	1SL0320A00
Module covers	12863

Automation	
Box + opaque door	1SL0205A00
Drilled base plate	1SL0279A00
Inner door	1SL0255A00
Wiring duct	Check the ABB Library
Fix-O-Rapid	Check the ABB Library
Wall-mounting brackets	1SL0342A00
Ventilation kit	1SL0350A00





Size 6

Distribution/Mixed	
Box + transparent door	1SL0216A00
Uprights	1SL0287A00
Modular plate 2 mod.	1SL0304A00
Blank panel 2 mod.	1SL0333A00
Drilled panel 1+1/2 mod.	1SL0315A00
Blank panel 1/2 mod.	1SL0321A00
Drilled panel 1 mod.	1SL0310A00 (x2)
Wiring kit 25x60 mm	1SL0356A00
Wiring kit 40x60 mm	1SL0363A00

Automation	
Box + opaque door	1SL0206A00
Metal base plate	1SL0264A00
Inner door	1SL0256A00
Wiring duct	Check the ABB Library
Fix-O-Rapid	Check the ABB Library
Triangular lock	1SL0341A00 (x3)
Anti-condensation kit	1SL0351A00 (x3)

General purpose enclosures
General characteristics of SR2 Enclosures

The range of SR2 enclosures is a complete offer of monobloc enclosures for constructing small and medium-sized electric automation, switching and control switchboards.

The SR2 enclosures come from the experience ABB has gained over the years in building IP65 metal structures (in accordance with the IEC 60529 Standard), together with the innovative new production process used for construction and patented by ABB.
The typical use of SR2 Enclosures is to make switchgear and controlgear switchboards for a very wide variety of industrial machines: from large machinery with automated production lines or parts of these, down to the typical installations of on-board machine switchboards, boilers, heating plants and so on.

They conform to the EN 62208 Standard “Empty enclosures for low voltage protection switchgear and controlgear assemblies” and allow realization of electrical equipment conforming to the prescriptions of the IEC 60204-1 Standard “Safety of machinery. Electrical equipment of machines” and of the EN 60439- 1 Standard and the new EN 61439-1-2 Standard “Low voltage protection switchgear and controlgear for assemblies”. The degree of protection, in accordance with the IEC 60529 Standard “Degrees of protection of enclosures (IP Code)”, is IP65.

The SR2 enclosures have also passed the control required to obtain the UL (Underwriters Laboratories) and CSA (Canadian Standards Association) Type 12 marks.

The SR2 enclosures also allow secondary distribution switchboards to be made, thanks to the possibility, in the 400, 600 and 800 mm widths, of installing the whole range of apparatus and modular circuit-breakers on DIN rails combined with special pre-drilled and hinged modular front panels, thereby allowing construction of AS/ANS type electrical switchgear conforming to the IEC 60439-1 Standard and the new EN
61439-1-2 Standard. A single line of metalwork structures therefore allows construction of automation and secondary and end distribution electrical switchboards thanks to the availability of a series of accessories (modular panels, DIN rails) and to the possibility of stacking the enclosures.





General purpose enclosures
General characteristics of SR2 Enclosures

The SR2 enclosures are available in two versions (blind door or glazed door) and in 23 different dimensions, as well as a further 19 combinations obtained by stacking the enclosures, up to a maximum height of 2000 mm, which guarantee ample selection possibilities for the various end applications.

The SR2 enclosures have been designed to fulfil all the typical needs of the builder or installer of switchgear in the best way possible and the user is presented with a unique ensemble of functional characteristics:

- wide dimensional range
- certified IP65 degree of protection
- internal galvanised sheet mounting plate with 20/10 thickness (made to allow threaded holes to be made easily), adjustable in depth by using a special accessory
- fairlead plate screwed on (at top and bottom) made of 15/10 thick galvanised sheet, with a sealing gasket applied inside
- complete reversibility of the enclosure, so the door can open either on the right or on the lefthand side
- possibility of installing all the apparatus and modular circuit-breakers on a DIN rail combined with a hinged modular panel

The standard colour is RAL 7035 orange peel. On request, the SR2 enclosures can be ordered in a wide range of RAL colours (see page 24/143).

Both the enclosures with glazed door or blind door can be stacked:
stacking is done simply by removing the fairlead plates and inserting the IP65 sealing gasket (GZ....), made of neoprene with closed cells.

Assembly of the stacked enclosures is carried out by means of the same holes used for the fairlead plates.
The door is supplied with the enclosure (single code) so as to reduce the number of articles and assembly times.





General purpose enclosures
General characteristics of SR2 Enclosures

The range is completed with a series of accessories: brackets for wall assembly, rain shield top cover, locks of various types, internal document pocket, spacers, and spray paint for touching up. It is possible floor fixing by means plinth.



Plastic document pocket, RAL 7035, size A4, the pocket is apply within the solid doors wider than 400 mm, with stickers provided.



Many closure systems can replace the standard closures of the external doors. The inserts are interchangeable and easily replaced by loosening a nut.



The brackets for wall mounting allows installation of the boxes on the wall using the holes located on the back of the enclosure.



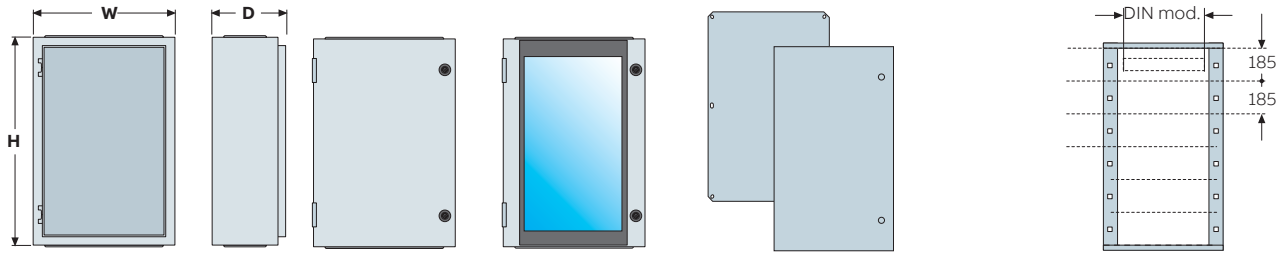
The bars, made of electrolytic copper with M6 threaded holes in 25 mm, can be mounted on mounting plates using the appropriate supports.

Technical characteristics		
Conformity with Standard		IEC 62208, IEC 61439-1-2
Degree of protection		IP65 (IEC 60529) UL Listed: UL 508A NEMA: Types 1, 3R, 12
Degree of mechanical strength		IK10 blind door
		IK09 glazed door
		(IEC 62262)
Certifications		c UL us LISTED Ex II 3 G D
Type of material		Metallic
Installation site		Indoor/outdoor
Fixing method		floor/wall
Normal service conditions - ambient temperature		from –5 up to +40°C
Operating climate (t°/Ur%)	costant	23°C/83% - 40°C/93%
	variable	23°C/98% - 40°C/98%

General purpose enclosures

Selection table - SR2 enclosures

Quick selection table

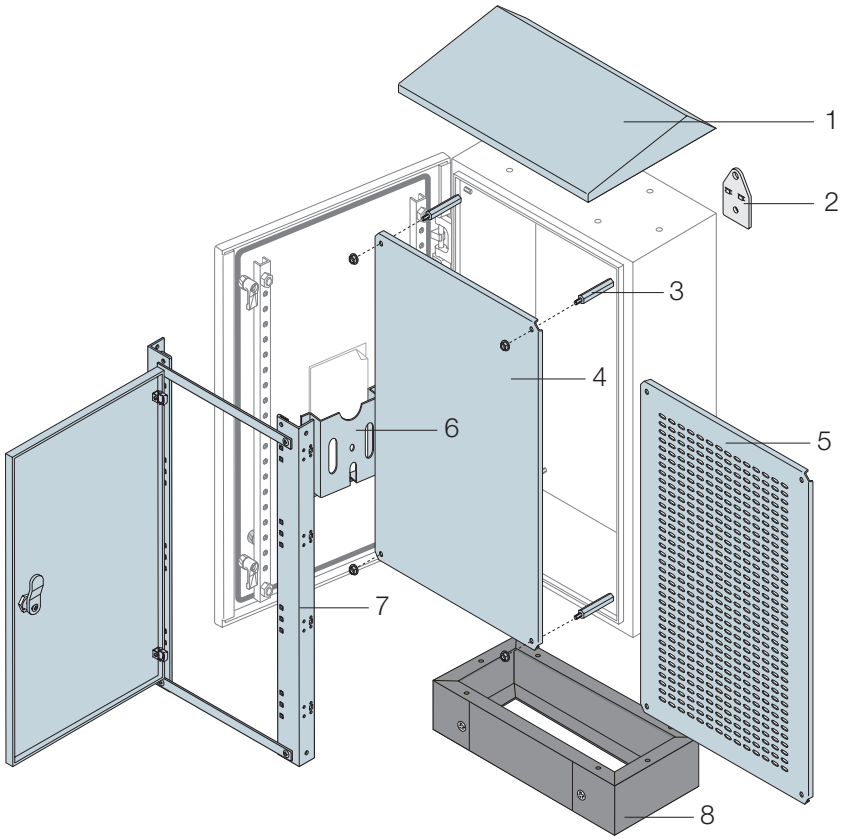


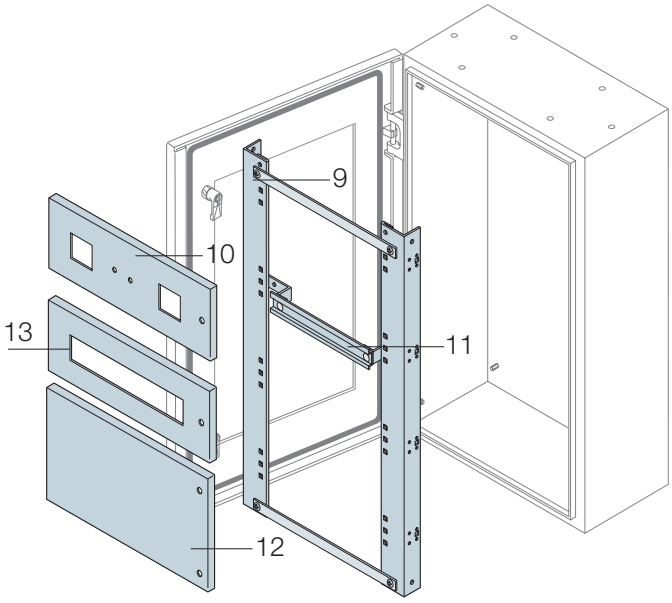
Overall dimensions			Enclosures		Kit for automation		Kit for distribution Supports for mounting modular panels			
H mm	W mm	D mm	Enclosures with blind door + back plate	with glazed door *	Blind counterdoor	Back plate	No. vertical mod. H=185mm	No. DIN mod. per row	Total modules	DIN Supports
300	200	150	SRN3215K							
	300		SRN3315K							
	400		SRN3415K							
400	300	150	SRN4315K							
	300	200	SRN4320K							
	400		SRN4420K							
	600		SRN4620K							
500	300	200	SRN5320K							
	400		SRN5420K	SRN5420VK*	KC5040K	PF5040	2	14	28	KD5040K
	400	250	SRN5425K	SRN5425VK*	KC5040K	PF5040	2	14	28	KD5040K
600	400	200	SRN6420K	SRN6420VK*	KC6040K	PF6040	3	14	42	KD6040K
	400	250	SRN6425K	SRN6425VK*	KC6040K	PF6040	3	14	42	KD6040K
	600		SRN6625K							
700	500	200	SRN7520K	SRN7520VK*	KC7050K	PF7050				
	500	250	SRN7525K	SRN7525VK*	KC7050K	PF7050				
800	600	250	SRN8625K	SRN8625VK*	KC8060K	PF8060	4	25	100	KD8060K
	600	300	SRN8630K	SRN8630VK*	KC8060K	PF8060	4	25	100	KD8060K
	800		SRN8830K							
1000	600	250	SRN10625K	SRN10625VK*	KC1060K	PF1060	5	25	125	KD1060K
	600	300	SRN10630K	SRN10630VK*	KC1060K	PF1060	5	25	125	KD1060K
	800		SRN10830K	SRN10830VK*	KC1080K	PF1080	5	36	180	KD1080K
1200	600	300	SRN12630K	SRN12630VK*	KC1260K	PF1260	6	25	150	KD1260K
	800		SRN12830K	SRN12830VK*	KC1280K	PF1280	6	36	216	KD1280K

* The mounting plate must be ordered separately.

General purpose enclosures

Ordering codes - SR2 enclosures





1 - Spray protection roof

2 - Wall-mounting brackets

3 - Spacers for back plates

4 -Blind internal plate

5 - Slotted internal plate

6 - Document pocket

7 - Counterdoor

8 - Plinth

9 - Frame for DIN rail

10 - Modular panels for apparateus

11 - DIN rail

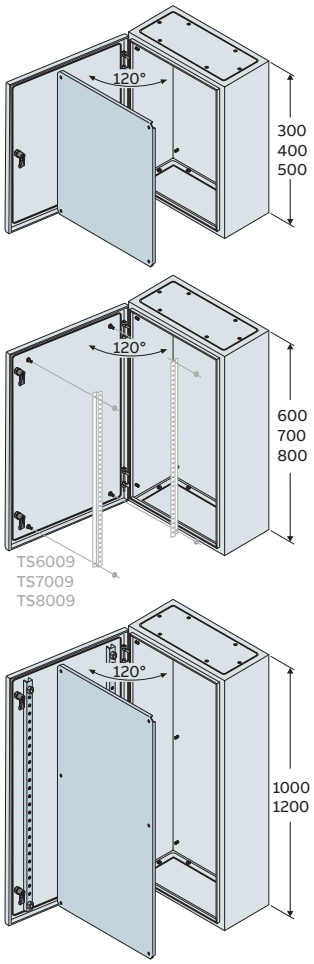
12 - Blind modular panels

13 - Modular panel for DIN rail

General purpose enclosures

Ordering codes - SR2 enclosures

SR2 Enclosures with blind door (internal plate included)
The enclosures with blind door, typically for making automation switchgear, are already fitted with the internal galvanised sheet mounting plate.

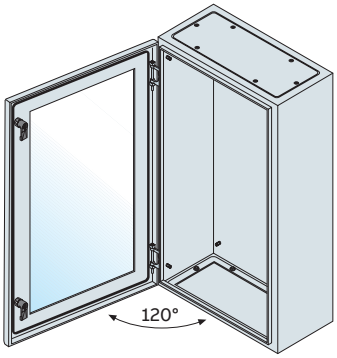


Enclosures with blind door (internal plate included)				
Dimensions (mm)				**Package/ No. of pieces**
H	**W**	**D**	**Code**	
300 (1)	200	150	SRN3215K	1/1
	300	150	SRN3315K	1/1
	400	150	SRN3415K	1/1
400 (1)	300	150	SRN4315K	1/1
	300	200	SRN4320K	1/1
	400	200	SRN4420K	1/1
	600	200	SRN4620K	1/1
500 (1)	300	200	SRN5320K	1/1
	400	200	SRN5420K	1/1
	400	250	SRN5425K	1/1
600	400	200	SRN6420K	1/1
	400	250	SRN6425K	1/1
	600	250	SRN6625K	1/1
700	500	200	SRN7520K	1/1
	500	250	SRN7525K	1/1
800	600	250	SRN8625K	1/1
	600	300	SRN8630K	1/1
	800	300	SRN8830K	1/1
1000*	600	250	SRN10625K	1/1
	600	300	SRN10630K	1/1
	800	300	SRN10830K	1/1
1200*	600	300	SRN12630K	1/1
	800	300	SRN12830K	1/1

(1) The enclosures with height less or egual to 500mm hare only a closing box.
* Plates height 1000 / 1200mm have six mounting points .

General purpose enclosures

Ordering codes - SR2 enclosures



Enclosures with glazed door

The enclosures with glazed door are also used for distribution configurations. The internal equipment is made, alternatively, by selecting the special kits:

- KD... (Distribution Kit) consisting of a pair of functional uprights for assembly of the modular panels (to be ordered separately) and of any compensation panel.

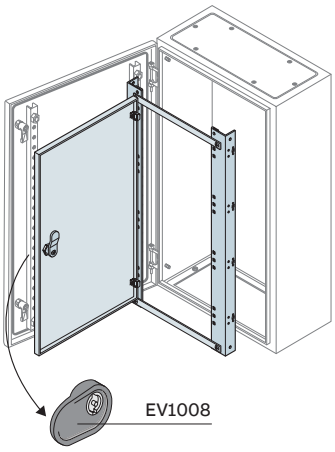
The modular panels, which can also be installed on the enclosures with blind door with the help of the KD.. kit itself, are all hinged and have vertical modularity of 185 mm.

Enclosures with glazed door				
Dimensions (mm)				
H	W	D	Code	Package/ No. of pieces
500 [1]	400	200	SRN5420VK	1/1
	400	250	SRN5425VK	1/1
600	400	200	SRN6420VK	1/1
	400	250	SRN6425VK	1/1
700	500	200	SRN7520VK	1/1
	500	250	SRN7525VK	1/1
800	600	250	SRN8625VK	1/1
	600	300	SRN8630VK	1/1
1000	600	250	SRN10625VK	1/1
	600	300	SRN10630VK	1/1
	800	300	SRN10830VK	1/1
1200	600	300	SRN12630VK	1/1
	800	300	SRN12830VK	1/1

[1] The enclosures with height less or egual to 500mm hare only a closing box.

General purpose enclosures

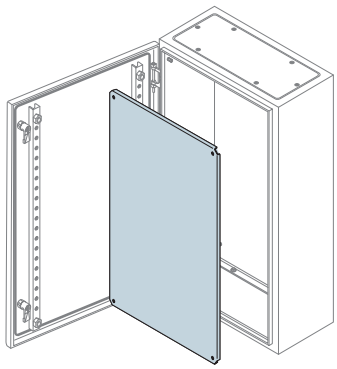
Ordering codes - SR2 enclosures



Blind counterdoor

The internal counterdoor guarantees IP20 degree of protection. Made of steel sheet 15/10mm thick, galvanized and painted orange peel RAL 7035 colour, complete with the EV1008 ergonomic box and insert with double tongue.

Blind counterdoor			
Dimensions (mm)			Package/ No. of pieces
H	W	Code	
500	400	KC5040K	1/1
600	400	KC6040K	1/1
700	500	KC7050K	1/1
800	600	KC8060K	1/1
1000	600	KC1060K	1/1
1000	800	KC1080K	1/1
1200	600	KC1260K	1/1
1200	800	KC1280K	1/1



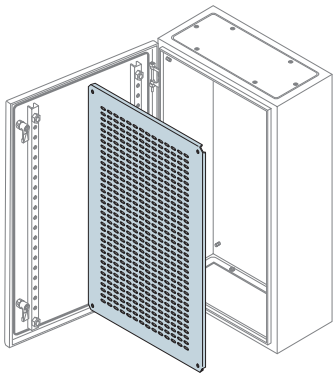
Blind internal mounting plate

Internal galvanised sheet mounting plate 20/10mm thick complete with fixing with small items provided. Possibility of adjusting the depth with the help of a special spacer kit (to be ordered separately).

Blind back plate for enclosure			
Dimensions (mm)			Package/ No. of pieces
H	W	Code	
300	200	PF3020	1/1
300	300	PF3030	1/1
300	400	PF3040	1/1
400	300	PF4030	1/1
400	400	PF4040	1/1
400	600	PF4060	1/1
500	300	PF5030	1/1
500	400	PF5040	1/1
600	400	PF6040	1/1
600	600	PF6060	1/1
700	500	PF7050	1/1
800	600	PF8060	1/1
800	800	PF8080	1/1
1000	600	PF1060	1/1
1000	800	PF1080	1/1
1200	600	PF1260	1/1
1200	800	PF1280	1/1

General purpose enclosures

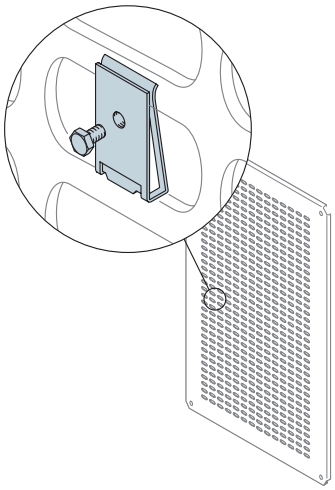
Ordering codes - SR2 enclosures



Slotted internal mounting plate

Fixing with small items provided. Possibility of adjusting the depth with the help of a special spacer kit (to be ordered separately).

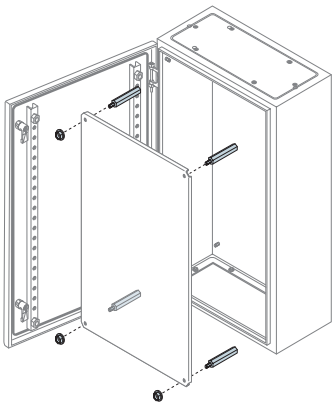
Back plate for enclosure			
Dimensions (mm)			Package/ No. of pieces
W	H	Code	
200	300	TQ3020	1/1
300	300	TQ3030	1/1
400	300	TQ3040	1/1
300	400	TQ4030	1/1
400	400	TQ4040	1/1
600	400	TQ4060	1/1
300	500	TQ5030	1/1
400	500	TQ5040	1/1
400	600	TQ6040	1/1
600	600	TQ6060	1/1
500	700	TQ7050	1/1
600	800	TQ8060	1/1
800	800	TQ8080	1/1
600	1000	TQ1060	1/1
800	1000	TQ1080	1/1
600	1200	TQ1260	1/1
800	1200	TQ1280	1/1



Clip nuts

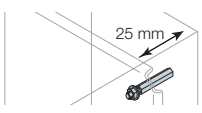
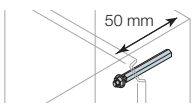
For slotted plates with M6x10mm hexagonal head screws.

Description	Code	Package/ No. of pieces
No.20 clip nuts	TQ6610	1/20



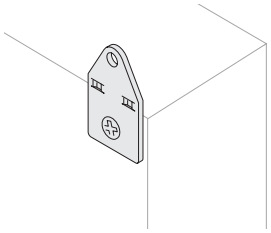
Spacer Kit for adjusting the depth of the back plates

Kit consisting of 12 spacers for fixing the back plate with the possibility of adjusting the depth with 25 mm pitch.

Description	Code	Package/ No. of pieces
Spacers 25mm long 	AA8025	1/12
Spacers 50mm long 	AA8050	1/12

General purpose enclosures

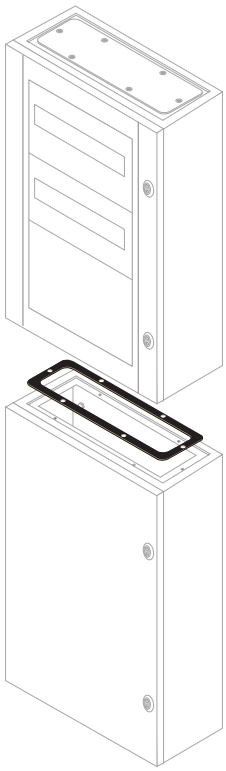
Ordering codes - SR2 enclosures



Brackets for wall fixing

These allow wall installation of the enclosures and are mounted by using the special holes positioned on the rear of the enclosures.

Description	Code	Package/ No. of pieces
Brackets for wall fixing	AA1206	1/4



Accessories for stacking

Dimensions (mm)			Package/ No. of pieces
W	D	Code	
IP65 gasket			
400	200	GZ4020	1/1
	250	GZ4025	1/1
600	200	GZ6020	1/1
	250	GZ6025	1/1
	300	GZ6030	1/1
800	300	GZ8030	1/1



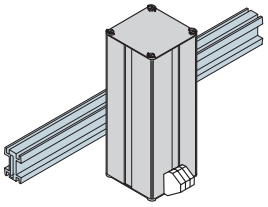
Plinth

Steel plinth 25/10 thick grey RAL7012 color.

Plinth				
Dimensions (mm)				Package/ No. of pieces
W	D	H	Code	
400	200	100	ZA4020	1/1
	250	100	ZA4025	1/1
600	250	100	ZA6025	1/1
	300	100	ZA6030	1/1
800	300	100	ZA8030	1/1

General purpose enclosures

Ordering codes - SR2 enclosures



Temperature management

IP20 heater

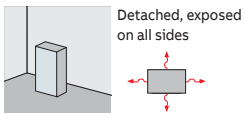
Their use prevents condensation in the electric cabinets. They consist of a heating element (PTC thermistor) inserted in an aluminium alloy ground plate. The PTC thermistor is a component which modifies its impedance according to the operating temperature. It is intrinsically stable and ensures primary safety features for the heater and service stability.
The main qualities of the heaters using PTC are:

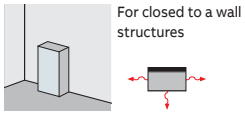
- electrical absorption (or dissipated power) which is almost constant in
- the range of power supply voltage between 100 and 250V;
- electrical absorption bound by inverse law to the trend of the ambient temperature.

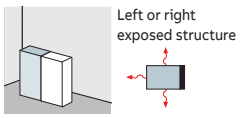
The special tubular geometry of the ground plate allows efficient thermal exchange with the heating element. This allows high powers and limited overall dimensions (especially in width and depth); Snap-on assembly on 35 mm DIN rail. Requires a thermostat.

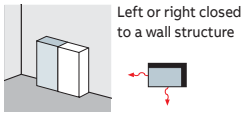
Description	Dimensions (mm) H	W	D	Code	Package/ No. of pieces
Anti-condensation heater 30W, 110-240 Vac-dc	115	42	42	VA7930	1/1
Anti-condensation heater 50W, 110-240 Vac-dcc	165	42	42	VA7950	1/1
Anti-condensation heater 75W, 110-240 Vac-dc	210	42	42	VA7975	1/1
Anti-condensation heater 100W, 110-240 Vac-dc	165	42	51	VA7910	1/1
Anti-condensation heater 150W, 110-240 Vac-dc	146	82	51	VA7915	1/1
Anti-condensation heater with fan 300W, 230 Vac-dc	148	82	91	VA8300	1/1

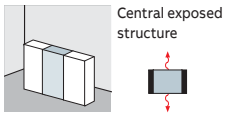
All the heaters with PTC absorb a higher power than the rated one on inrush according to a transitory which lasts a few tenths of a second.
If the heaters are to be supplied by means of an auxiliary transformer, its apparent power must be sized taking 1.5 times the rated power of the heaters with natural aeration and twice those with forced ventilation into consideration.

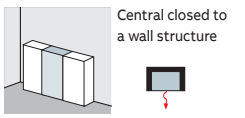

Detached, exposed on all sides

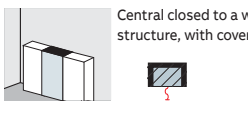

For closed to a wall structures


Left or right exposed structure


Left or right closed to a wall structure


Central exposed structure


Central closed to a wall structure


Central closed to a wall structure, with covered roof

IEC 890 method for calculating the effective cooling surface (CEI 17-43 method)

The total power dissipation P of an enclosure is linked to the exchange effective dissipating surface S, the ΔT difference between the inner and outer temperature and the k coefficient of heat exchange relative to the material of the enclosure:
$P = k * \Delta T * S$
k = 5,5 for painted steel
$\Delta T = T1-T2$;
T1 = dew point temperature (on overage 25 °C)
T2 = minimum ambient temperature.

General purpose enclosures

Ordering codes - SR2 enclosures

The exchange surface S can be calculated using the following table taken from the CEI 17-43

Disposition of the cabinet	Calculating the enclosure surface S (mm^2)	Dimensions (m)
Detached, exposed on all sides	S = 1,8 x H x (L+P) + 1,4 x L x P	L = width H = height P = depth
For closed to a wall structures	S = 1,4 x L x (H+P) + 1,8 x P x H	
Left or right exposed structure	S = 1,4 x P x (H+L) + 1,8 x L x H	
Left or right closed to a wall structure	S = 1,4 x H x (P+L) + 1,4 x L x P	
Central exposed structure	S = 1,8 x L x H + 1,4 x L x P + P x H	
Central closed to a wall structure	S = 1,4 x L x (H+P) + P x H	
Central closed to a wall structure, with covered roof	S = 1,4 x L x H + 0,7 x L x P + P x H	

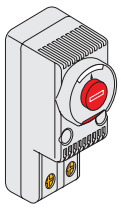
Using a SRN8630K box, in “for closed to a wall structures” case we will obtain:
T1 = 25 °C; T2 = 20 °C; K = 5,5; ΔT = (25-20) = 5 °C; S = 1,4m^2

The total power dissipation P obtained will be:
P= k * ΔT * S = 38,5 W

The recommended heater is VA7950 (50W).

Temperature management

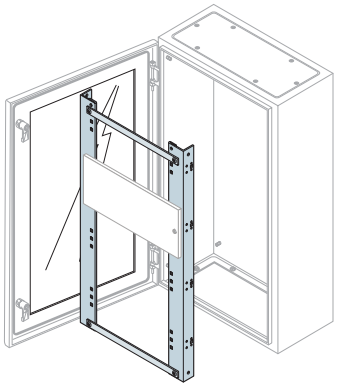
IP20 Thermostat
Conforms to EN 60730-1, CE and cURus standards, IP20 degree of protection. Grey RAL 7035 colour; electrical life 100,000 cycles. Dimensions (HxWxD) 68x29x45mm, can be mounted on DIN rail. The version with NO (normally open) contact allows closure of a circuit activating ventilation, air conditioning, or alarms. The version with NC (normally closed) contact allows opening of a circuit, disconnecting any anti-condensation resistances.



Description	Standard power supply V~/50-60Hz		Code	Package/ No. of pieces
NO ventilation thermostat	12-60 V d.c.; 110-250V a.c.		EN0101K	1/1
NC heating thermostat	12-60 V d.c.; 110-250V a.c.		EN0102K	1/1

Code	Standard power supply V~/50-60Hz	Contact capacity		Temperature scale	Type of contact	Weight
		Load Ω	Load L			
EN0101K	12-60 V d.c.; 110-250V a.c.	10A	2A	-10 +80 °C	NO	54g
EN0102K	12-60 V d.c.; 110-250V a.c.	10A	2A	-10 +80 °C	NC	54g

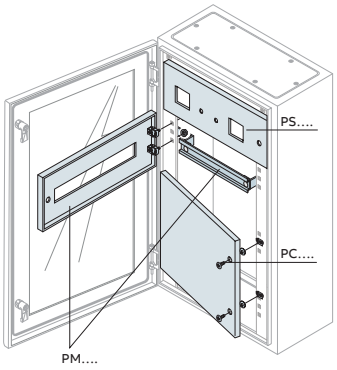
Frame for DIN rail
Internal supports for fixing modular panels and DIN rails, colour RAL 7035 orange peel.



Description	Dimensions (mm)		Code	Package/ No. of pieces
	H	W		
Supports 14 mod. DIN x 2 rows	500	400	KD5040K	1/1
Supports 14 mod. DIN x 3 rows	600	400	KD6040K	1/1
Supports 25 mod. DIN x 4 rows	800	600	KD8060K	1/1
Supports 25 mod. DIN x 5 rows	1000	600	KD1060K	1/1
Supports 36 mod. DIN x 5 rows	1000	800	KD1080K	1/1
Supports 25 mod. DIN x 6 rows	1200	600	KD1260K	1/1
Supports 36 mod. DIN x 6 rows	1200	800	KD1280K	1/1

General purpose enclosures

Ordering codes - SR2 enclosures



Modular panels

Modular panels made of 12/10mm thick sheet steel painted RAL 7035 colour orange peel. The modular hinged panels can be mounted on the enclosures by using the special kit (KD...) consisting of functional uprights and compensation panel. The hinges patented by ABB, allow automatic earthing for panel contact when it is closed and are also suitable conventional earthing (with a cable). Each modular panel (PM) has a DIN rail provided (adjustable in depth), the fixing brackets and the relative small items. Modular and circuit-breakers and Tmax moulded-case circuit-breakers up to T3 can be placed side by side on the same DIN rail using the special depth adapter AP6001. To install moulded-case circuit-breakers, it is necessary to fix the DIN rail in a position towards the back. The fixing brackets of the DIN rail allow the wiring duct to be mounted up to a maximum size of 60 x 60 mm.

Modular hinged panels for modular apparatus (DIN rail and fixing brackets included)

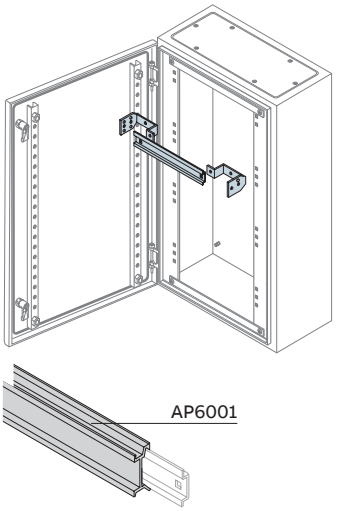
	Dimensions (mm)			
Description	**H**	**W**	**Code**	**Package/ No. of pieces**
14 mod. DIN + fixing bracket	185	400	PM1414K	1/1
25 mod. DIN + fixing bracket	185	600	PM1625K	1/1
36 mod. DIN + fixing bracket	185	800	PM1836K	1/1

Modular hinged panels for measuring instruments

	Dimensions (mm)			
Description	**H**	**W**	**Code**	**Package/ No. of pieces**
2 instruments 72 x 72mm	185	400	PS2476K	1/1
2 instruments 72 x 72mm	185	600	PS2676K	1/1
2 instruments 72 x 72mm	185	800	PS2876K	1/1

Modular hinged blind panels

	Dimensions (mm)			
Description	**H**	**W**	**Code**	**Package/ No. of pieces**
Blind panel	185	400	PC1406K	1/1
Blind panel	185	600	PC1606K	1/1
Blind panel	185	800	PC1806K	1/1
Blind panel	370	600	PC2606K	1/1
Blind panel	370	800	PC2806K	1/1



DIN rail and fixing brackets

Description	**No. of modules**	**W (mm)**	**Code**	**Package/ No. of pieces**
DIN rail and fixing brackets	14	400	GD4006	1/1
DIN rail and fixing brackets	25	600	GD6006	1/1
DIN rail and fixing brackets	36	800	GD8006	1/1
Depth adapter				
No.1 depth adapter for Tmax T1-T2-T3-XT1-XT3 W=600mm			AP6001	1/4

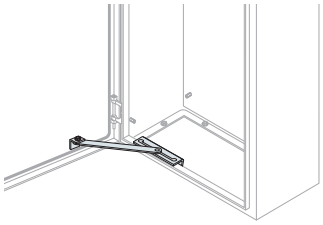
Polished flange for DIN-Rail mounting

Description	**Code**	**Package/ No. of pieces**
Polished flange for XT1 3P mounted on DIN rail	AD3301	1/1
Polished flange for XT1 4P mounted on DIN rail	AD3302	1/1
Polished flange for XT3 3P mounted on DIN rail	AD3303	1/1
Polished flange for XT3 4P mounted on DIN rail	AD3304	1/1

Already supplied in the DIN-Rail mounting kit for breakers in MCCBs catalogue

General purpose enclosures

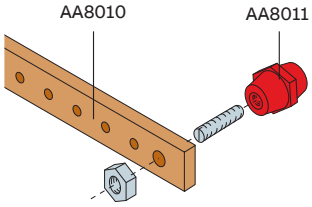
Ordering codes - SR2 enclosures



Door anti-closure device

It can't be mounted with the inner-door or with modular/blind panels mounted down in structure and hinged.

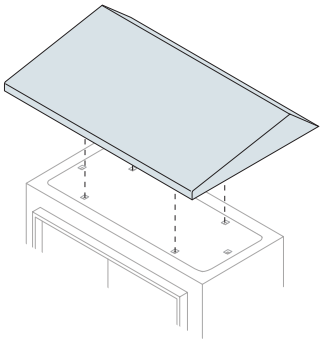
Description	Code	Package/ No. of pieces
Door anti-closure device	EV0015	1/4



Neutral or earthing busbars

The busbars, made of electrolytic copper with M6 threaded holes with 25 mm pitch, can be mounted on the back plates by means of the special supports. They must be sized according to the enclosure and the position they are installed in.

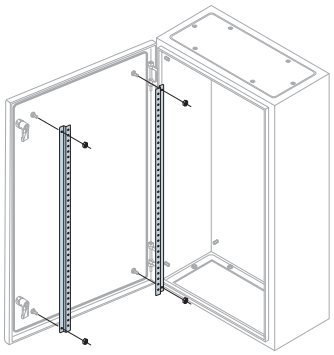
Description	W (mm)	Code	Package/ No. of pieces
No. 4 busbars sect. 20x5mm	1000	AA8010	1/4
No.5 support for busbar		AA8011	1/5



Spray protection roofs

To improve protection against entry of liquids and rain. Made of 15/10mm thick sheet steel, painted RAL 7035 colour orange peel.

Spray protection roof			
Dimensions (mm)			Package/ No. of pieces
W	D	Code	
200	150	TT2015K	1/1
300	150	TT3015K	1/1
400	150	TT4015K	1/1
300	200	TT3020K	1/1
400	200	TT4020K	1/1
500	200	TT5020K	1/1
600	200	TT6020K	1/1
400	250	TT4025K	1/1
500	250	TT5025K	1/1
600	250	TT6025K	1/1
600	300	TT6030K	1/1
800	300	TT8030K	1/1



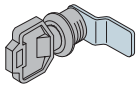
Shaped sections for accessories

These allow fixing of accessories (e.g. wiring ducts) inside the blind doors. They consist of a pair of vertical crosspieces made of 15/10mm thick white galvanised sheet, pre-drilled with 25 mm pitch. In the enclosures with 1000 and 1200 mm height with blind door, the shaped sections are already provided.

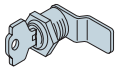
Description	Dimensions (mm)	Code	Package/ No. of pieces
	H		
No. 2 shaped sections for door	600	TS6009	1/1
No. 2 shaped sections for door	700	TS7009	1/1
No. 2 shaped sections for door	800	TS8009	1/1
No. 2 shaped sections for door	1000	1SLM400000A9000	1/1

General purpose enclosures

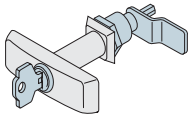
Ordering codes - SR2 enclosures



AA8001



AA8002



AA8003

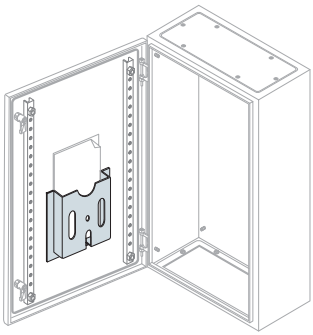


EV1008

Closing systems

These can replace the standard closures of the external doors.
The inserts are interchangeable and easily replaced by loosening a single nut.

Description	Code	Package/ No. of pieces
Box Ø 19 mm double tongue and plastic key (spare part)	AA8001	1/1
Box Ø 19 mm with security insert and Yale type key	AA8002	1/1
Box Ø 19 mm with handle and Yale type key	AA8003	1/1
Box Ø 19 mm with triangular insert	AA5200	1/1
Plastic key for triangular insert AA5200	AA5190	1/1
Ergonomic box complete with double tongue insert (without tongue)	EV1008	1/1
Single code Yale insert	EV1036	1/1
Ronis 455 insert for	EV1037	1/1
3mm Double tongue insert	EV1039	1/1



Document pocket RAL 7035

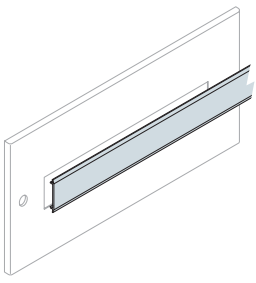
Made of plastic, RAL 7035 colour, A4 size. The pocket can be glued inside the blind door with a width of more than 400 mm, using the adhesives provided.

Description	Code	Package/ No. of pieces
Plastic document pocket for A4	EV1075K	1/1

Special Painting Service

Special painting service has to manage with code of enclosure SRN....SPEC (e.g. SRN4320SPEC VERNSR + note about color required). It is necessary specify the color required in the order. Minimum order quantity 4 pieces. For any other component or further information, please contact you local sales network.

Description	Code	Package/ No. of pieces
Extra cost for special SR painting	VERNSR	



Accessories for DIN panel

Hole covering strip RAL7035 colour

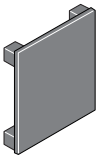
Description	Code	Package/ No. of pieces
No.10 hole covers W=2000mm, grey	AD1086	1/10
No.3 hole covers 24 DIN modules W=600mm	AD1088	1/3
No.3 hole covers 36 DIN modules W=800mm	AD1089	1/3

General purpose enclosures

Ordering codes - SR2 enclosures



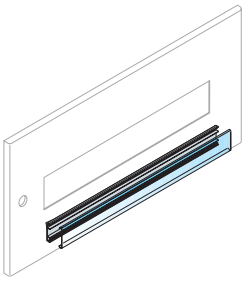
EV1137



EV1135
EV1136

Closing plug for instrument holder panels

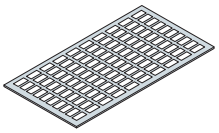
Description	Code	Package/ No. of pieces
No.10 closing plug for instrument holder panels 72x72mm	EV1135	1/10
No.5 closing plug for instrument holder panels 96x96mm	EV1136	1/5
No.50 tappi di chiusura per pulsanti Ø22 mm	EV1137	1/50



AD1101-AD1102
AD1103-AD1104

Adhesive name label holders

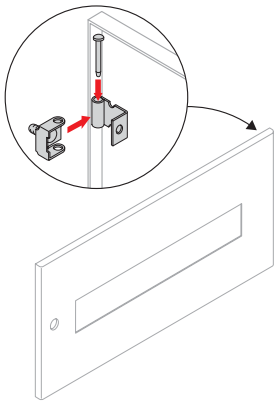
Description	Dimensions (mm) W	Code	Package/ No. of pieces
No. 20 label holders 18 DIN mod	325	EH2118	1/20
No. 20 label holders 29 DIN mod	525	EH2129	1/20
No. 20 label holders 24 DIN mod	432	AD1600	1/20
No. 20 label holders 36 DIN mod	634	AD1800	1/20



EH2118-EH2129
AD1600-AD1800

Etichette scrivibili con sistema Grafoplast compatibile

Description	No. of DIN mod.	Code	Package/ No. of pieces
No. 288 labels 1 DIN mod.	1	AD1101	1/288
No. 192 labels 2 DIN mod.	2	AD1102	1/192
No. 96 labels 3 DIN mod.	3	AD1103	1/96
No. 96 labels 4 DIN mod.	4	AD1104	1/96



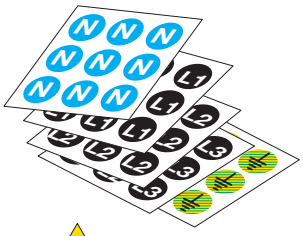
Hinges and quick closures for panels

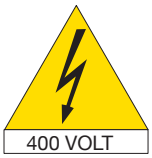
Description	Code	Package/ No. of pieces
No. 10 hinges for panels	EH1889 [1]	1/10
No. 5 quick closures for front panels	EH1890	1/5

[1] Use No.2 hinges for panel H=150/200/300/400mm, No.3 hinges for panel H=500/600mm.

General purpose enclosures

Ordering codes - SR2 enclosures





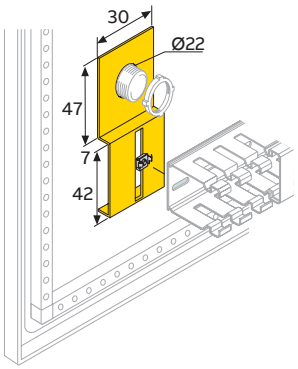


Marking

Description	Code	Package/ No. of pieces
No.5 adhesive labels ABB-IS2 W=1000mm	EV1157	1/5
No.490 adhesive labels Ø 12mm N symbol	EV1150	1/490
No.490 adhesive labels Ø 12mm L1symbol	EV1151	1/490
No.490 adhesive labels Ø 12mm L2 symbol	EV1152	1/490
No.490 adhesive labels Ø 12mm L3 symbol	EV1153	1/490
No.490 adhesive labels Ø 12mm T symbol	EV1154	1/490
No.10 triangular adhesive labels 125mm with 400V lightning arrow symbol	EV1155	1/10
No.100 triangular adhesive labels 50mm with lightning arrow symbol	EV1156	1/100

Screws for apparatus

Description	Code	Package/ No. of pieces
No.1000 perforating screws 4.2x13mm cross slotted head	EV1100	1/1000
No.1000 perforating screws 4.2x19mm cross slotted head	EV1101	1/1000
No.50 trilobed screws M6 L=10mm	AD1033	1/50



Wiring duct support brackets

Description	Code	Package/ No. of pieces
No. 100 wiring duct support brackets on upright structure	EV1131	1/100

General purpose enclosures

Ordering codes - SR2 enclosures

Spare parts

Description	Code	Package/ No. of pieces
Ergonomic box complete with double tongue insert (without tongue)	EV1008	1/1
N. 10 hings for SR2 enclosures + countersunk rivets	AA1204	1/1
N. 16 screws and nuts M6x14 for flange	AA1203	1/2
N. 2 fairlead plates for SRN3215K	FLN3215K	1/2
N. 2 fairlead plates for SRN3315K-SRN4315K	FLN3315K	1/2
N. 2 fairlead plates for SRN3415K	FLN3415K	1/2
N. 2 fairlead plates for SRN4320K-SRN5320K	FLN4320K	1/2
N. 2 fairlead plates for SRN4420K-SRN5420K-SRN6420K	FLN4420K	1/2
N. 2 fairlead plates for SRN5425K-SRN6425K	FLN4425K	1/2
N. 2 fairlead plates for SRN4620K	FLN4620K	1/2
N. 2 fairlead plates for SRN6625K-SRN8625K-SRN10625K	FLN6625K	1/2
N. 2 fairlead plates for SRN7520K	FLN7520K	1/2
N. 2 fairlead plates forr SRN7525K	FLN7525K	1/2
N. 2 fairlead plates for SRN8630K-SRN10630K-SRN12630K	FLN8630K	1/2
N. 2 fairlead plates for SRN8830K-SRN10830-SRN12830K	FLN8830K	1/2
Blind door 1000x600mm (hxl)	PRN1066K	1/1
Blind door 1000x800mm (hxl)	PRN1086K	1/1
Blind door 1200x600mm (hxl)	PRN1266K	1/1
Blind door 1200x800mm (hxl)	PRN1286K	1/1
Blind door 300x200mm (hxl)	PRN3026K	1/1
Blind door 300x300mm (hxl)	PRN3006K	1/1
Blind door 300x400mm (hxl)	PRN3046K	1/1
Blind door 400x300mm (hxl)	PRN4036K	1/1
Blind door 400x400mm (hxl)	PRN4046K	1/1
Blind door 400x600mm (hxl)	PRN4066K	1/1
Blind door 500x300mm (hxl)	PRN5036K	1/1
Blind door 500x400mm (hxl)	PRN5046K	1/1
Blind door 600x400mm (hxl)	PRN6046K	1/1
Blind door 600x600mm (hxl)	PRN6066K	1/1
Blind door 700x500mm (hxl)	PRN7056K	1/1
Blind door 800x600mm (hxl)	PRN8066K	1/1
Blind door 800x800mm (hxl)	PRN8086K	1/1
Glazed door 1000x600mm (hxl)	PTN1066K	1/1
Glazed door 1000x800mm (hxl)	PTN1086K	1/1
Glazed door 1200x600mm (hxl)	PTN1266K	1/1
Glazed door 1200x800mm (hxl)	PTN1286K	1/1
Glazed door 500x400mm (hxl)	PTN5046K	1/1
Glazed door 600x400mm (hxl)	PTN6046K	1/1
Glazed door 700x500mm (hxl)	PTN7056K	1/1
Glazed door 800x600mm (hxl)	PTN8066K	1/1
Spray paint color grey RAL7035 for structure	VB7035	1/1
Spray paint color grey RAL7012 for plinth	VB7012	1/1

General purpose enclosures

Ordering codes - SR2 enclosures



Painting Special Service

Description	Code
Extra cost for special SR painting	VERNSR

Standard size enclosures, standard colour
Special painting service with standard colour (see on the next page) for standard size enclosures in quantities equal to or greater than 4 units with single code to be managed with code SRN ... SPEC + VERNSR overprice equal to the number of enclosures + colour note to be specified in the order.

Example: SRN4320SPEC 4
VERNSR 4
COLOUR NOTE

Standard size enclosures, non-standard colour
Request feasibility of implementation by completing the relevant Form for special quotations and send it to the R&D ECS office.
Management is per offer.
If the offer is accepted and after having received it, it will be possible to place the order with the codes indicated in the offer that will not be SRN...SPEC, but dummy ones.
Always remember to indicate the offer reference in the order.

Non-standard size enclosures, standard colour
Request feasibility of implementation by completing the relevant Form for special quotations and send it to the R&D ECS office.
Management is per offer.
If the offer is accepted and after having received it, it will be possible to place the order with the codes indicated in the offer, that will not be SRN...SPEC, but dummy ones:
Always remember to indicate the offer reference in the order.

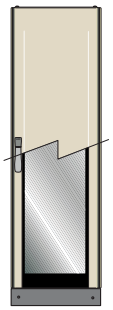
Non-standard size enclosures, non-standard colour
Request feasibility of implementation by completing the relevant Form for special quotations and send it to the R&D ECS office.
Management is per offer.
If the offer is accepted and after having received it, it will be possible to place the order with the codes indicated in the offer, that will not be SRN...SPEC, but dummy ones:
Always remember to indicate the offer reference in the order.
Please note that the minimum quantity is four pieces with a single code.

General purpose enclosures

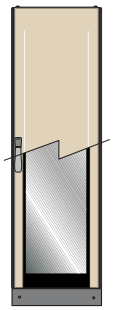
Standardised RAL colours (on request)

On request, colours other than the standard RAL 7035 orange peel one are available, using the same painting cycle (for other types of colours or paints, please contact ABB).

Beige

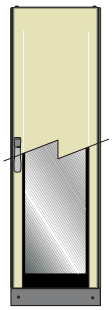


RAL 1013



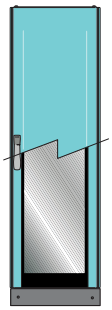
RAL 1015

Ivory

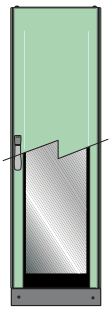


RAL 1014

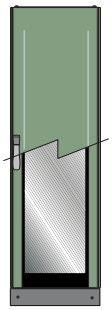
Green



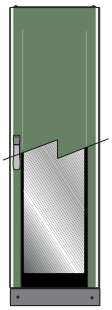
RAL 6027



RAL 6019

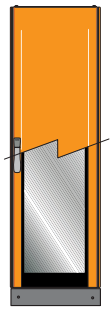


RAL 6021

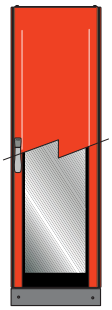


RAL 6011

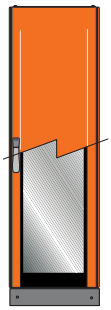
Orange



RAL 2000

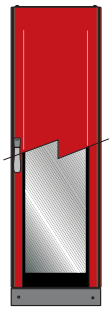


RAL 2002



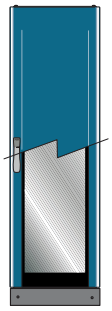
RAL 2004

Red

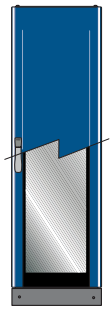


RAL 3000

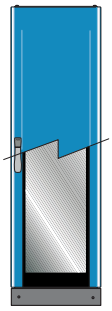
Blu



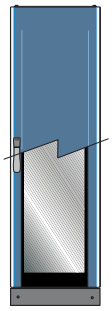
RAL 5009



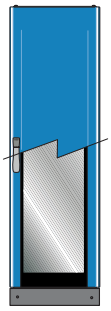
RAL 5010



RAL 5012

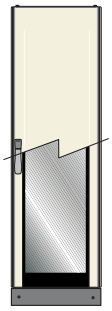


RAL 5014

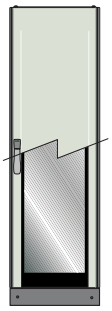


RAL 5015

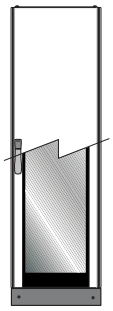
White



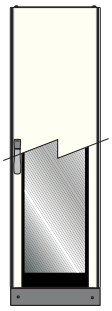
RAL 9001



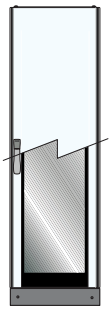
RAL 9002



RAL 9003

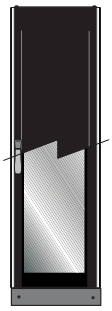


RAL 9010

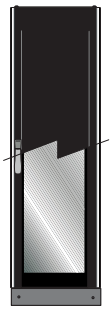


RAL 9016

Black

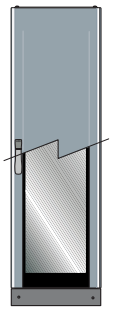


RAL 9005

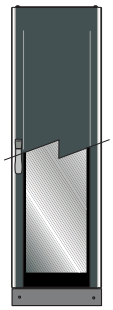


RAL 9011

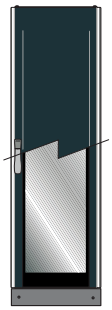
Grey



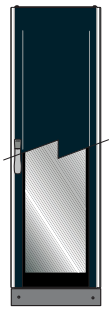
RAL 7001



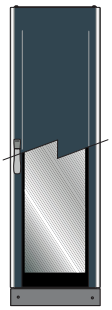
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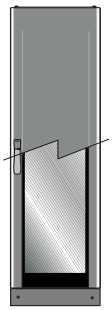
RAL 7016



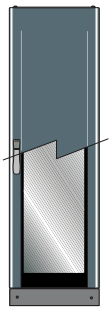
RAL 7021



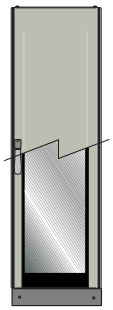
RAL 7024



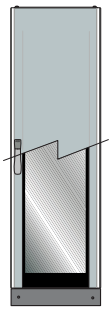
RAL 7030



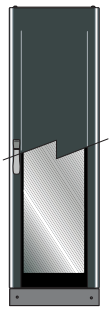
RAL 7031



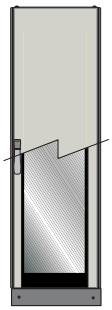
RAL 7032



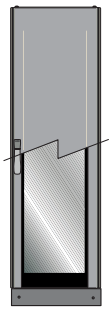
RAL 7035



RAL 7043



RAL 7047



RAL 9006

RAL	1013	1015	1014	6027	6019	6021	6011	2000	2002	2004	3000	5009	5010	5012	5014	5015	9001	9002
Smooth			●	●	●		●			●	●		●	●	●	●		●
Orange p.	●	●			●	●	●	●	●			●	●	●		●	●	●

RAL	9003	9010	9016	9005	9011	7001	7012	7016	7021	7024	7030	7031	7032	7035	7043	7047	9006
Smooth	●		●	●								●		●		●	●
Orange p.		●	●	●	●	●	●	●	●	●	●		●		●		

Other types of colours are available on request.

Corrosion test in saline mist

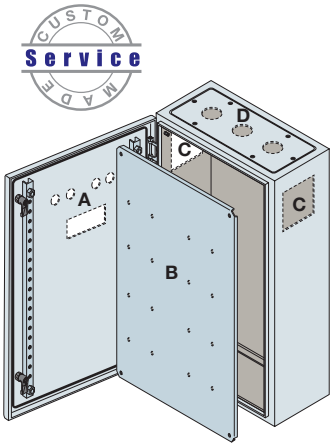
(Ref. Standard UNI ISO 9227, CEI50-5/4, IEC 60068-2-30)

Treatment time (hours)	24	48	72	96	120	144	168	192
Rust penetration	no	no	no	no	no	no	no	193[1]
Blistering	no	no	no	no	no	no	no	no

[1] When a tearing test with adhesive tape is carried out after 193 hours of exposure, about 3 mm of paint detachment can be noted from the notch area with 1–1.5 mm rust penetration.

General purpose enclosures

Ordering codes - SR2 enclosures



Special Drilling Service
The overprice amount depends on the number of individual drilled parts and not on the number of holes.
For single part it means: A-door B-plate; C-housing; D-top/bottom part.
Please note that the minimum quantity is 4 pieces with a single code.
The price of the special drilling service depends on the number of parts to be drilled and on the amount of enclosures to be drilled.

Description	Code	No. of enclosures to be drilled
Extra cost for drilling service per individual drilled part (A-B-C-D)	FORSR1	4-5-6
Extra cost for drilling service per individual drilled part (A-B-C-D)	FORSR2	7-8-9
Extra cost for drilling service per individual drilled part (A-B-C-D)	FORSR	≥ 10

Standard size enclosures with special drilling
The special drilling service for standard size enclosures in quantities equal to or greater than 4 units with a single code has to be managed with code SRN ... SPEC + overprice FORSR/ FORSR1/FORSSR2 (see table) equal to the number of enclosures and the number of parts to be drilled + hole layout to be attached to the order (see on the next page).
Example: Enclosure (4 pcs) with door to be drilled (1 part)

Example: Enclosure (4 pcs) with door and plate to be drilled (1 parts)
SRN4320SPEC 4
FORSR1 4
DRAWINGS TO BE ATTACHED

Example: Enclosure (4 pcs) with door and plate to be drilled (2 parts)
SRN4320SPEC 4
FORSR1 8
DRAWINGS TO BE ATTACHED

Non-standard enclosure sizes, special drilling
Request feasibility of implementation by completing the relevant Form for special quotations and send it together with the drill layout to the R&D ECS office.
Management is per offer.
If the offer is accepted and after having received it, it will be possible to place the order with the codes indicated in the offer, that will not be SRN...SPEC, but dummy ones.
Always remember to indicate the offer reference in the order.

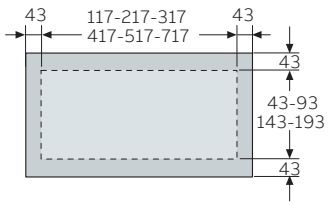
General purpose enclosures

Overall dimensions - Drillings SR2

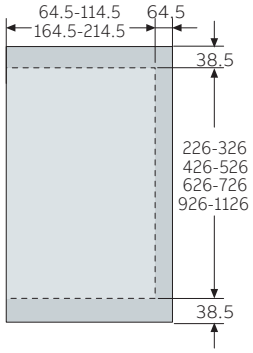
Drillings SR2

Maximum useful overall dimensions for the drillings.

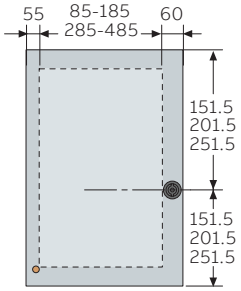
Flanges



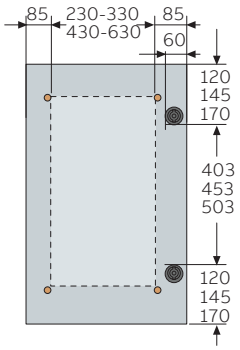
Side



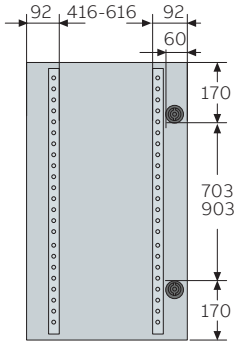
Doors H = 300-400-500



Doors H = 600-700-800



Doors H = 1000-1200



General purpose enclosures

General characteristics and applications - SRX enclosures

The AISI 304 stainless steel used allows the cabinets to be installed either indoors or outdoors, by fixing to the floor or a wall. AISI 304 stainless steel enclosures with opaque door, usually intended for making enclosures for automation, are supplied with the galvanised sheet metal internal plate and do not have cable entry flanges.

SRX enclosures always conform to IEC EN 62208 and to IEC 61439-1-2, have a degree of protection IP66 (IEC EN 60529); NEMA 4X and NEMA 3R (UL standard). The degree of protection against external mechanical impacts is IK10 for the version with opaque door and IK09 for the version with glass door (IEC 62262).
AISI 304 stainless steel enclosures with glass door can also be used for distribution configurations. Alternatively, the internal equipment is made by selecting special kits (Distribution Kit) consisting of a pair of functional uprights for assembly of the AISI 304 stainless steel modular panels (to be ordered separately) and any compensation panels. The modular panels, which can also be installed on the enclosures with opaque door using the same KD Kit....X, are all hinged and have vertical modularity of 185 mm.



General purpose enclosures

General characteristics and applications - SRX enclosures

SRX enclosures can be equipped with: standard plates, clip nuts, spacers, slotted internal plate, accessories for stacking, DIN rails and fixing brackets, shaped sections for accessories on doors, closing systems.



Spray protection roof
Improves protection against infiltration by liquids and accidental sprays. Made of AISI 304 stainless steel.



Distribution kit
All apparatuses and modular circuit breakers can be installed on a DIN rail combined with a modular panel.



Stacking
SRX enclosures can be stacked using the special kit. The plinth with removable flanges is made of 25/10 thick AISI 304 stainless steel.



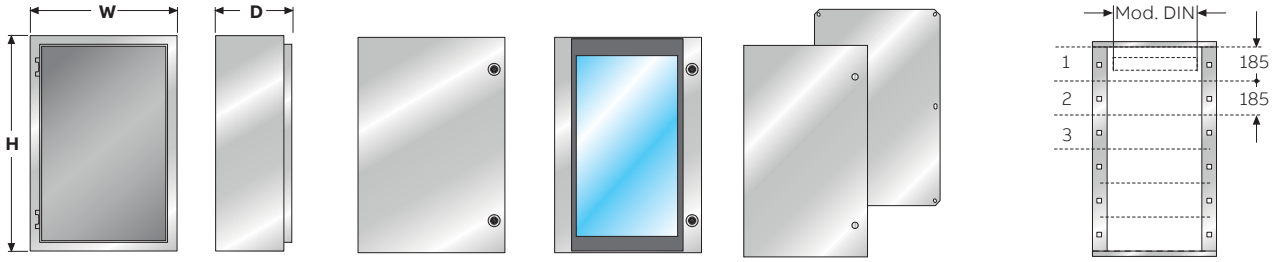
Closing box
A new Ø19 mm closing box made of chrome-finished plastic with double tongue key.

Technical characteristics		
Conforms to		CEI EN 62208, IEC 61439-1-2
Degree of protection		IP66 (CEI EN 60529) UL Listed: UL 508A NEMA: Types 1, 3R, 4, 4X, 12
Degree of mechanical protection		IK10 opaque door
		IK09 glass door
		(IEC 62262)
Certifications		UL LISTED Ex II 3 G D
Type of material		AISI 304
Installation site		indoors/outdoors
Fixing method		floor/wall
Normal operating conditions - ambient temperature		from –5 to +55°C

General purpose enclosures

Selection of the structure - SRX enclosures

Rapid selection table

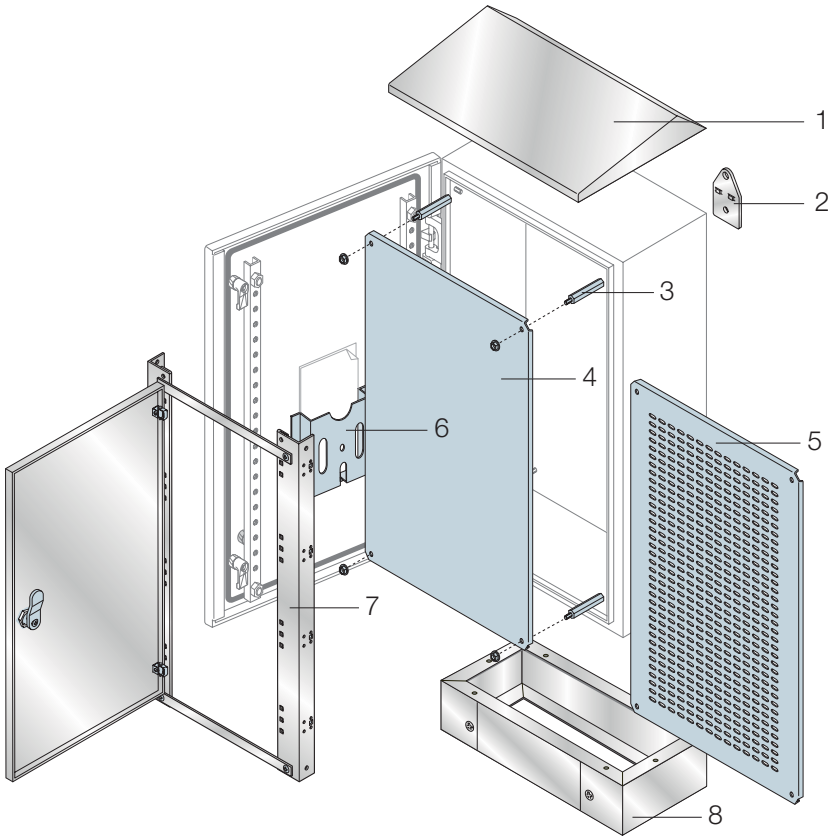


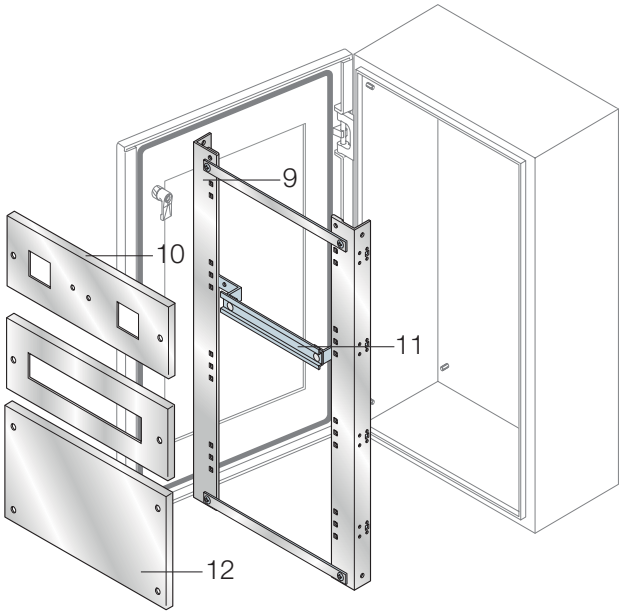
Overall dimensions					Automation kit		Distribution kit Supports for mounting modular panels			
H mm	W mm	D mm	Enclosures with opaque door + mounting plate	Enclosures with transparent door[1]	Opaque inner door IP20	Opaque plate	No. of vertical mod. H=185mm	No. of DIN mod. per row	Total modules	DIN supports
300	200	150	SRN3215X			PF3020				
	400	150	SRN3415X			PF3040				
400	300	150	SRN4315X		KC4030X	PF4030				
		200	SRN4320X							
	400	200	SRN4420X			PF4040				
	600	200	SRN4620X			PF4060				
500	400	200	SRN5420X	SRN5420VX	KC5040X	PF5040	2	14	28	KD5040X
	500	200	SRN5520X			PF5050				
600	400	200	SRN6420X	SRN6420VX	KC6040X	PF6040	3	14	42	KD6040X
	600	200	SRN6620X			PF6060				
		300	SRN6630X							
700	500	250	SRN7525X	SRN7525VX	KC7050X	PF7050				
800	600	200	SRN8620X		KC8060X	PF8060	4	25	100	KD8060X
		250		SRN8625VX				25	100	
		300	SRN8630X					25	100	
	800	300	SRN8830X			PF8080				
1000	800	300	SRN10830X	SRN10830VX	KC1080X	PF1080	5	36	180	KD1080X
1200	600	300	SRN12630X			PF1260				
	800	300	SRN12830X			PF1280				

[1] Mounting plate to be ordered separately.

General purpose enclosures

Ordering codes - SRX enclosures





1 - Spray protection roof

2 - Wall-mounting brackets

3 - Spacers for back plates

4 - Opaque internal plate

5 - Slotted internal plate

6 - Document pocket

7 - Opaque inner door

8 - Plinth

9 - Frame for DIN rail

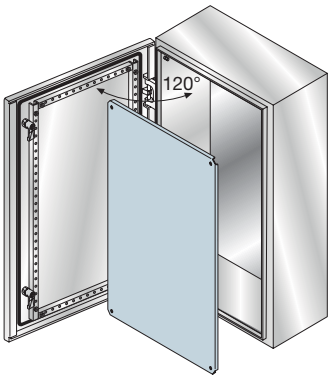
10 - Modular panels for apparatuses

11 - DIN rail

12 - Opaque modular panels

General purpose enclosures

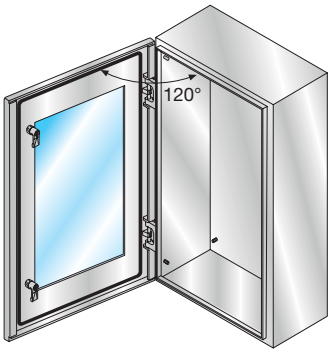
Ordering codes - SRX enclosures



SRX series enclosures with opaque door (internal plate included)

Enclosures with an opaque door, made of AISI 304 stainless steel, usually intended for producing enclosures for automation, come supplied with the galvanised sheet metal internal plate and do not have cable entry flanges.

Enclosures with opaque door complete with internal mounting plate				
Dimensions (mm)				Package/ No. of pieces
H	W	D	Code	
300	200	150	SRN3215X	1/1
	400		SRN3415X	1/1
400	300	150	SRN4315X	1/1
	300	200	SRN4320X	1/1
	400		SRN4420X	1/1
	600		SRN4620X	1/1
500	400	200	SRN5420X	1/1
	500		SRN5520X	1/1
600	400	200	SRN6420X	1/1
	600		SRN6620X	1/1
	600	300	SRN6630X	1/1
700	500	250	SRN7525X	1/1
800	600	200	SRN8620X	1/1
	600	300	SRN8630X	1/1
	800		SRN8830X	1/1
1000	800	300	SRN10830X	1/1
1200	600	300	SRN12630X	1/1
	800		SRN12830X	1/1



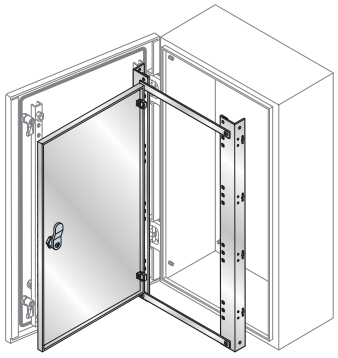
SRX series stainless steel enclosures with transparent door

AISI 304 stainless steel enclosures with a glass door can also be used for distribution configurations. The internal equipment is set up using the relevant kits:
- KD...X (Distribution Kit) consisting of a pair of functional uprights for assembly of the modular panels made of AISI 304 stainless steel (to be ordered separately) and of any compensation panels. The modular panels, which can also be installed on the enclosures with opaque door using the KD kit, are all hinged and have vertical modularity of 185 mm.
The enclosures with see-through door are provided without mounting plate.

Enclosures with transparent door				
Dimensions (mm)				Package/ No. of pieces
H	W	D	Code	
500	400	200	SRN5420VX	1/1
600	400		SRN6420VX	1/1
700	500	250	SRN7525VX	1/1
800	600		SRN8625VX	1/1
1000	800	300	SRN10830VX	1/1

General purpose enclosures

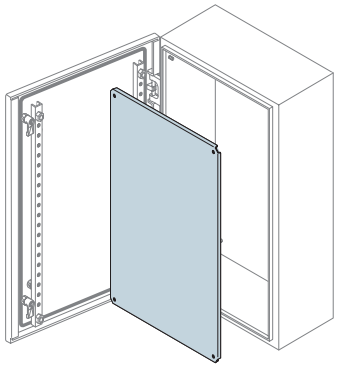
Ordering codes - SRX enclosures



Opaque inner door

The inner door guarantees a degree of protection of IP20. Made of 15/10 thick AISI 304 stainless steel, complete with box and double tongue insert.

Opaque inner door			
Dimensions (mm)			Package/ No. of pieces
H	W	Code	
400	300	KC4030X	1/1
500	400	KC5040X	1/1
600		KC6040X	1/1
700	500	KC7050X	1/1
800	600	KC8060X	1/1
1000	800	KC1080X	1/1



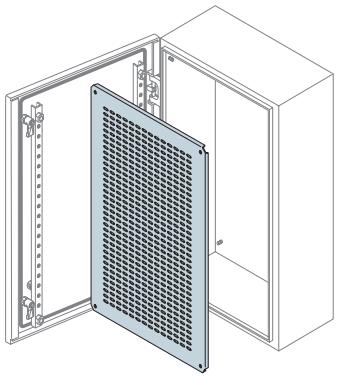
Opaque internal mounting plate

20/10 thick galvanised sheet metal internal plate, complete with fixing with small parts supplied. Depth-adjustable using a special spacer kit (to be ordered separately).

Opaque internal mounting plate			
Dimensions (mm)			Package/ No. of pieces
H	W	Code	
300	200	PF3020	1/1
300	400	PF3040	1/1
400	300	PF4030	1/1
400	400	PF4040	1/1
400	600	PF4060	1/1
500	400	PF5040	1/1
500	500	PF5050	1/1
600	400	PF6040	1/1
600	600	PF6060	1/1
700	500	PF7050	1/1
800	600	PF8060	1/1
800	800	PF8080	1/1
1000	800	PF1080	1/1
1200	600	PF1260	1/1
1200	800	PF1280	1/1

General purpose enclosures

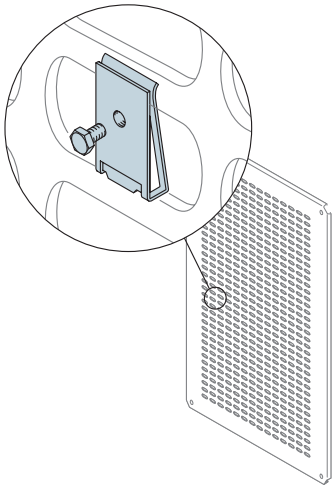
Ordering codes - SRX enclosures



Slotted internal plate

Fixing with small parts supplied. Depth-adjustable using a special spacer kit (to be ordered separately).

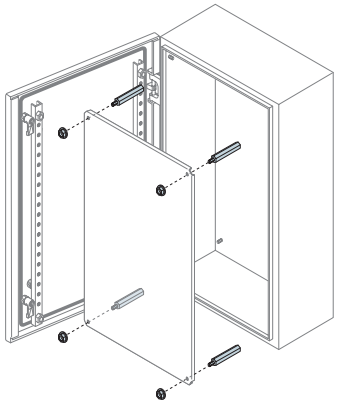
Piastra interna asolata			
Dimensions (mm)			Package/ No. of pieces
H	W	Code	
300	200	TQ3020	1/1
300	400	TQ3040	1/1
400	300	TQ4030	1/1
400	400	TQ4040	1/1
400	600	TQ4060	1/1
500	400	TQ5040	1/1
600	400	TQ6040	1/1
600	600	TQ6060	1/1
700	500	TQ7050	1/1
800	600	TQ8060	1/1
800	800	TQ8080	1/1
1000	800	TQ1080	1/1
1200	600	TQ1260	1/1
1200	800	TQ1280	1/1



Clip nuts

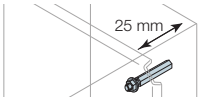
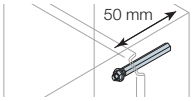
For slotted plates with M6x10mm hexagonal head screws.

Description	Code	Package/ No. of pieces
Clip nuts	TQ6610	1/20



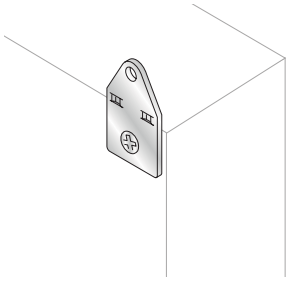
Spacer kit for adjusting back plate depth

Kit made up of 12 spacers for fixing the mounting plate. Allows depth adjustment in 25 mm steps.

Description	Code	Package/ No. of pieces
Spacers, length 25 mm 	AA8025	1/12
Spacers, length 50 mm 	AA8050	1/12

General purpose enclosures

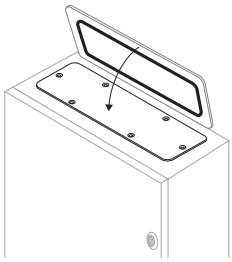
Ordering codes - SRX enclosures



Wall-mounting brackets

Allow enclosures to be wall-mounted and are fitted using the special holes located on the back of the enclosures. Made of 30/10 thick AISI 304 stainless steel.

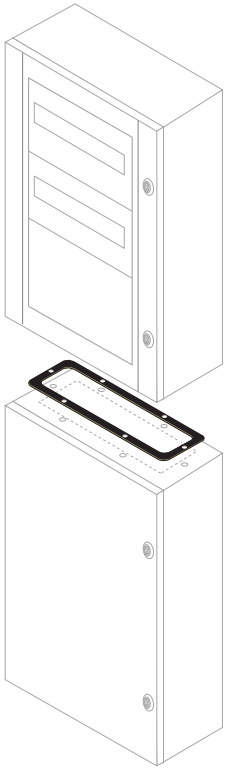
Description	Code	Package/ No. of pieces
No. 4 wall-mounting brackets	AA1206X	1/4



Fairlead plates

Fairlead plates in 25/10 thick AISI 304 stainless steel with polyurethane gasket.

Description	Dimensions (mm) W	D	Code	Package/ No. of pieces
Fairlead plate) for SRN3215X	173	97	FLN3215X	1/1
Fairlead plate for SRN4315X	273	97	FLN4315X	1/1
Fairlead plate for SRN3415X	373	97	FLN3415X	1/1
Fairlead plate for SRN4320X, SRN4320VX	273	147	FLN4320X	1/1
Fairlead plate for SRN4420X, SRN5420X, SRN6420X, SRN5420VX, SRN6420VX	373	147	FLN4420X	1/1
Fairlead plate 500x200mm for SRN5520X	473	147	FLN5520X	1/1
Fairlead plate) for SRN4620X, SRN6620X, SRN8620X	573	147	FLN4620X	1/1
Fairlead plate for SRN7525X, SRN7525VX	473	197	FLN7525X	1/1
Fairlead plate for SRN8625VX	573	197	FLN8625X	1/1
Fairlead plate for SRN6630X, SRN8630X, SRN12630X	573	247	FLN6630X	1/1
Fairlead plate for SRN6830X, SRN8830X, SRN10830X, SRN12830X, SRN10830VX	773	247	FLN6830X	1/1

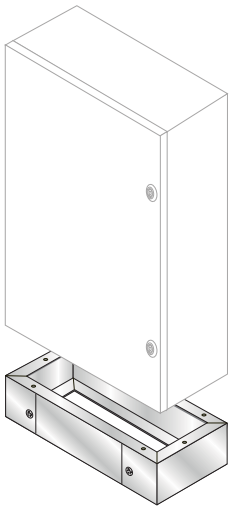


Accessories for stacking

Dimensions (mm) W	D	Code	Package/ No. of pieces
IP65 gasket			
400	200	GZ4020	1/1
500	200	GZ5020	1/1
	250	GZ5025	1/1
600	200	GZ6020	1/1
	250	GZ6025	1/1
	300	GZ6030	1/1
800	300	GZ8030	1/1

General purpose enclosures

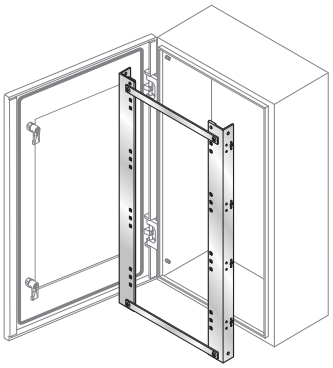
Ordering codes - SRX enclosures



Plinth

25/10 thick AISI 304 stainless steel plinth.

Plinth				
Dimensions (mm)				Package/
H	W	D	Code	No. of pieces
100	400	200	ZA4020X	1/1
100	500	200	ZA5020X	1/1
100		250	ZA5025X	1/1
100	600	200	ZA6020X	1/1
100		300	ZA6030X	1/1
100	800	300	ZA8030X	1/1



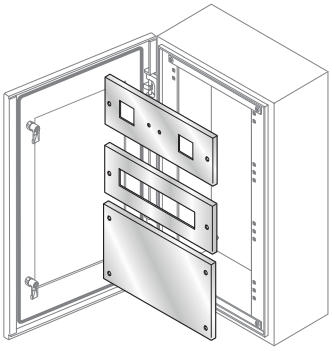
Frame for DIN rail

Internal supports for fixing modular panels and DIN rails, with compensation panels, made of AISI 304 stainless steel.

	Dimensions (mm)			
Description	H	W	Code	Package/ No. of pieces
Supports for 14 DIN mod. x 2 rows	500	400	KD5040X	1/1
Supports for 14 DIN mod. x 3 rows	600	400	KD6040X	1/1
Supports for 25 DIN mod. x 4 rows	800	600	KD8060X	1/1
Supports for 36 DIN mod. x 5 rows	1000	800	KD1080X	1/1

General purpose enclosures

Ordering codes - SRX enclosures



Screwed modular panels

12/10 mm thick AISI 304 stainless steel modular panels. The screwed modular panels can be fitted on the enclosures using the special kit (KD...) consisting of functional uprights and a compensation panel.
Each modular panel (PM) comes equipped with a DIN rail (depth-adjustable), fixing brackets and the relative small parts. Tmax modular and moulded-case circuit breakers up to T3 can be positioned side by side on the same DIN rail using the special depth adapter AP 6001.
To install MCCBs, fix the DIN rail in the recessed position. The DIN rail fixing brackets allow mounting of the wiring duct up to a maximum size of 60 x 60 mm.

Stainless steel screwed modular panels for DIN rail (including DIN rail and fixing brackets)

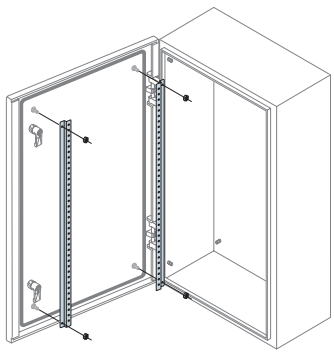
Description	Dimensions (mm) H	W	Code	Package/ No. of pieces
14 DIN mod. + fixing bracket	185	400	PM1414X	1/1
25 DIN mod. + fixing bracket	185	600	PM1625X	1/1
36 DIN mod. + fixing bracket	185	800	PM1836X	1/1

Stainless steel screwed modular panels for measuring instruments

Description	Dimensions (mm) H	W	Code	Package/ No. of pieces
2 instruments 72 x 72mm	185	400	PS2476X	1/1
2 instruments 72 x 72mm	185	600	PS2676X	1/1
2 instruments 72 x 72mm	185	800	PS2876X	1/1

Stainless steel opaque screwed modular panels

Description	Dimensions (mm) H	W	Code	Package/ No. of pieces
Opaque panel	185	400	PC1406X	1/1
Opaque panel	185	600	PC1606X	1/1
Opaque panel	185	800	PC1806X	1/1
Opaque panel	370	600	PC2606X	1/1
Opaque panel	370	800	PC2806X	1/1



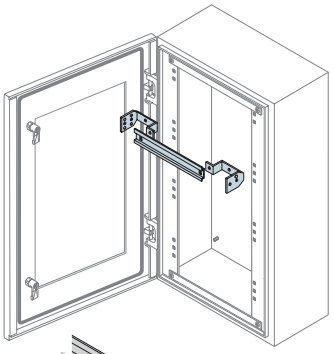
Shaped sections for accessories

Allow fixing of accessories (e.g.: wiring ducts) inside the blind doors. Consist of a pair of vertical crosspieces made of 15/10 thick white galvanised sheet metal, pre-drilled with 25 mm pitch. In enclosures with height 1000 and 1200 mm with a blind door, the shaped sections are already supplied.

Description	Dimensions (mm) H	Code	Package/ No. of pieces
Shaped sections for door	600	TS6009	1/2
Shaped sections for door	700	TS7009	1/2
Shaped sections for door	800	TS8009	1/2

General purpose enclosures

Ordering codes - SRX enclosures



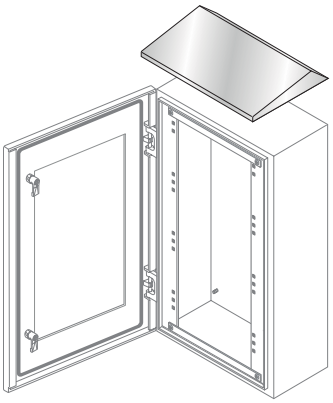
AP6001

DIN rail and fixing brackets

Description	No. modules	W (mm)	Code	Package/ No. of pieces
DIN rail and fixing brackets	14	400	GD4006	1/1
DIN rail and fixing brackets	25	600	GD6006	1/1
DIN rail and fixing brackets	36	800	GD8006	1/1
Depth adapter				
No.1 depth adapter for Tmax T1-T2-T3-XT1-XT3 W = 600 mm			AP6001	1/4

Spray protection roof

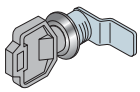
Improves protection against infiltration by liquids and accidental sprays.
Made of 15/10 thick AISI 304 stainless steel.



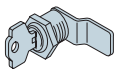
Spray protection roof			
Dimensions (mm)			**Package/ No. of pieces**
W	**D**	**Code**	
200	150	TT2015X	1/1
300	150	TT3015X	1/1
400	150	TT4015X	1/1
300	200	TT3020X	1/1
400	200	TT4020X	1/1
500	200	TT5020X	1/1
600	200	TT6020X	1/1
500	250	TT5025X	1/1
600	250	TT6025X	1/1
600	300	TT6030X	1/1
800	300	TT8030X	1/1

Closing systems

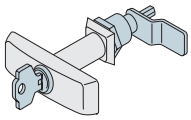
May substitute standard fasteners for the external doors.



AA8001X



AA8002



AA8003



EV1008

Description	Code	Package/ No. of pieces
Box Ø 19 mm double tongue made of chrome-finished plastic and key for external door	AA8001X	1/1
Box Ø 19 mm with safety insert and Yale type key for external door	AA8002 (1)	1/1
Box Ø 19 mm with handle and Yale type key for external door	AA8003 (1)	1/1
Box Ø 19 mm with triangular insert for external door	AA5200 (1)	1/1
Plastic key for triangular insert AA5200 for external door	AA5190	1/1
Box with double tongue insert made of plastic with key for inner door (without tongue)	EV1008	1/1
Single code Yale insert for inner door	EV1036	1/1
Ronis 455 insert for inner door	EV1037	1/1
3mm double tongue insert for inner door	EV1039	1/1

(1) Only for external door

General purpose enclosures

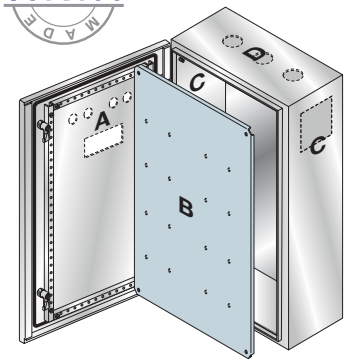
Ordering codes - SRX enclosures

Spare parts

Description	Code	Package/ No. of pieces
Stainless steel screws (No. 16 screws, flanged nuts and nylon washers M6)	AA1203X	1/1
Opaque door 300x200 mm (HxW)	PRN3026X	1/1
Opaque door 300x400 mm (HxW)	PRN3046X	1/1
Opaque door 400x300 mm (HxW)	PRN4036X	1/1
Opaque door 400x400 mm (HxW)	PRN4046X	1/1
Opaque door 400x600 mm (HxW)	PRN4066X	1/1
Opaque door 500x400 mm (HxW)	PRN5046X	1/1
Opaque door 500x500 mm (HxW)	PRN5056X	1/1
Opaque door 600x400 mm (HxW)	PRN6046X	1/1
Opaque door 600x600 mm (HxW)	PRN6066X	1/1
Opaque door 600x800 mm (HxW)	PRN6086X	1/1
Opaque door 700x500 mm (HxW)	PRN7056X	1/1
Opaque door 800x600 mm (HxW)	PRN8066X	1/1
Opaque door 800x800 mm (HxW)	PRN8086X	1/1
Opaque door 1000x800 mm (HxW)	PRN1086X	1/1
Opaque door 1200x600 mm (HxW)	PRN1266X	1/1
Opaque door 1200x800 mm (HxW)	PRN1286X	1/1
Glass door 400x300 mm (HxW)	PTN4036X	1/1
Glass door 500x400 mm (HxW)	PTN5046X	1/1
Glass door 600x400 mm (HxW)	PTN6046X	1/1
Glass door 700x500 mm (HxW)	PTN7056X	1/1
Glass door 800x600 mm (HxW)	PTN8066X	1/1
Glass door 1000x800 mm (HxW)	PTN1086X	1/1

General purpose enclosures

Ordering codes - SRX enclosures



Special Drilling Service
The overprice amount depends on the number of individual drilled parts and not on the number of holes.
For single part it means: A-door B-plate; C-housing; D-top/bottom part.
Please note that the minimum quantity is 10 pieces with a single code. The price of the special drilling service depends on the number of parts to be drilled and on the amount of enclosures to be drilled.

Description	Code	No. of enclosures to be drilled
Extra cost for drilling service per individual drilled part (A-B-C-D)	FORSRX	≥ 10

The special drilling service for standard size enclosures in quantities equal to or greater than 10 units with a single code has to be managed with code SRN ... SPEC + overprice FORSR/ FORSR1/FORSSR2 (see table) equal to the number of enclosures and the number of parts to be drilled + hole layout to be attached to the order.

Example: SRN4320XSPEC 10
FORSRX 10

Example: Enclosure (10 pcs) with door and plate to be drilled (2 parts)
SRN4320XSPEC 10
FORSRX 20
DRAWINGS TO BE ATTACHED

Non-standard enclosure sizes, special drilling
Request feasibility of implementation by completing the relevant Form for special quotations and send it together with the drill layout to the R&D ECS office. Management is per offer.
If the offer is accepted and after having received it, it will be possible to place the order with the codes indicated in the offer.

Painting Special Service
Request feasibility of implementation by completing the relevant Form for special quotations and send it to the R&D ECS office. Management is per offer.
If the offer is accepted and after having received it, it will be possible to place the order with the codes indicated in the offer.

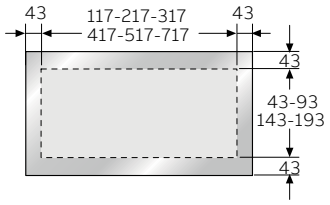
General purpose enclosures

Overall dimensions - Drillings SRX

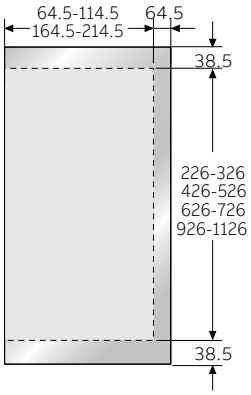
SRX enclosure drilling

Maximum working dimensions for drilling.

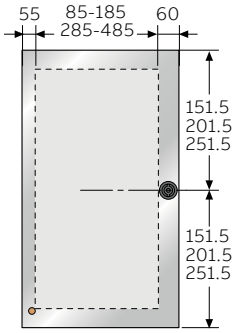
Flanges



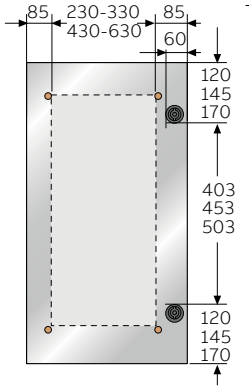
Side



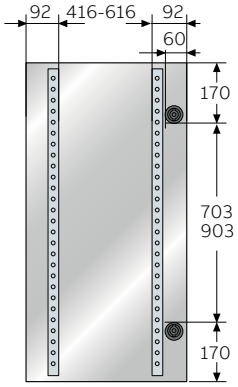
Doors H = 300-400-500



Doors H = 600-700-800



Doors H = 1000-1200



General purpose enclosures

Switchboards for industrial applications with blank front



General purpose enclosures
Switchboards for industrial applications with blank front

Technical characteristics

- protection degree IP 65
- insulation class II ⧈
- available in RAL 7035 grey
- available in the versions with transparent, smoky doors
- in polycarbonate material, self-extinguishing and resistant to abnormal heat and fire up to 960 °C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
- installation temperature from -25 °C to +60 °C
- resistant to heat: ball thermopressure up to +125 °C in compliance with EN 60695-10-2 Standard
- shock resistance 20 Joules (IK level 10)
- perfectly symmetrical switchboards with possibility of hinging the door onto the front (by means of the special articulated screws supplied) on the right or left with 140° opening
- doors designed to take lock with coded key, code 12 866 all models (except for code 13 200) are fitted with one rigid and one bi-material flange for the facilitated insertion of conduits and cables
- switchboards made and produced in compliance with CEI 23-49 (1996) + V1 + V2, CB certificate IEC 60670-24 Standards
- switchboards are supplied complete with:
  - 4 screw-cover caps to guarantee ⧈
  - accessories for hinging the front part
  - 1 self-adhesive indicator strip per row
  - 1 certification plate
  - instruction sheet
- use 3.5×9.5 self-tapping screws to fix the components on the back



General purpose enclosures

Switchboards for industrial applications with blank front



Transparent, smoky door – 12 modules

RAL 7035 grey

Dimensions W × H × D [mm]	Order code	Box/pack No items
275x370x140	13 204	1/4



Transparent, smoky door – 12 modules

RAL 7035 grey

Dimensions W × H × D [mm]	Order code	Box/pack No items
275x455x140	13 205	1/3



Transparent, smoky door – 18 modules

RAL 7035 grey

Dimensions W × H × D [mm]	Order code	Box/pack No items
380x570x140	13 208	1/2

General purpose enclosures

Switchboards for industrial applications with blank front – Accessories



Terminal blocks

The complete terminal blocks are composed of a combination of terminal holders and terminal bars as indicated in the description, with the terminal bars already mounted on terminal holders.
Configuration of the complete terminal block is standard. For different requirements (customized terminal block), the terminal holders and bars must be procured separately in the versions indicated in the table.

Description	Order code	Box/pack No items
for 12 modules – composed of 12540×1 + 12531×1 + 12532×1	12 492	10/40
for 18 modules – composed of 12543×1 + 12531×1 + 12535×1	12 498	10/40



Terminal holders

The terminal block is completed by combining the necessary terminal bars to the terminal holders, taking care to keep the terminal bars separate from each other.

For switchboards type	Description	Order code	Box/pack No items
13 204 - 13 205 - 13 206	for 12 modules	12 540	12/144
13 208	for 18 modules	12 543	12/108



Terminal bars

The terminal bars can be installed on any kind of terminal holder; they are snapped onto these with 2 clips for bar, through two holes made at the ends of the bar itself.

Description No of holes × ∅ holes (mm) + No of holes × mm²	Order code	Box/pack No items
5×16	12 531	20/240
10×16 + 3×25	12 532	20/240
16×16 + 3×25	12 533	20/240
15×16 + 6×25	12 534	20/240
19×16 + 6×25	12 535	20/240

Terminal holders and terminal bars are supplied separately. In this way, by inserting one or two terminal bars into the terminal holder you can create the best terminal for your requirements, with the advantage of obtaining a terminal block that is cheap as well as personalised, due to the fact that you only need to use material that is really necessary.
Some standard configurations are illustrated in the table.
All the possible configurations that can be created for each type of consumer unit are given in the technical details.

General purpose enclosures

Switchboards for industrial applications with blank front – Accessories



Wall brackets

Description	Order code	Box/pack No items
In insulating material	12 858	20/240



Universal cutter

Description	Order code	Box/pack No items
For drill	12 894	1/30

To use for side branch connections.



Module covers

No modules	Colour	Order code	Box/pack No items
1	RAL 7035 grey	12 861	50/1500
4	RAL 7035 grey	12 863	25/300



Spare flanges

For switchboards type	Order code	Box/pack No items
13 204 – 13 205 – 13 206, bi-material	12 601	20/80
13 208, bi-material	12 602	20/80
13 204 - 13 205 - 13 206, rigid flange	1SL0551A00	20/80
13 208, rigid flange	1SL0552A00	20/80



Key lock

Description	Order code	Box/pack No items
Coded type	12 866	10/300

Electrical installation solutions for buildings
Pedestals

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EH3 - system parts	25/16
EH3 / GD - DIN size pedestals deep version	25/20
EH3 / GD - Accessories	25/22
EH4 - Column cabinets	25/23

Pedestals

EH - Cabinets for underground cable distribution and all types of outdoor industrial applications



A wide range of pedestals has completed our comprehensive range of nonmetallic enclosures for several years. In power distribution application pedestals enable the connection of underground cables and the distribution to several consumers within the cabinets. Besides there are lots of applications that require reliable outdoor housings like Telecommunication or Traffic signalling.

Applications

- Energy distribution
- Cable television
- Telecommunication and electronics
- Traffic signalling and public lighting
- Temporary service for construction sites
- Camping sites and market places
- Marinas
- Water treatment
- Sub-stations
- 48 cm (19") racking systems

Standard: EN / IEC 61439-5

Specifications

- Cabinets to be mounted on a plinth.
- The base is partly buried into the ground.
- For some types the base is an integrated part of the pedestals.
- As with all our polyester boxes and cabinets, the pedestal feature high protection and total insulation to IEC 61439-5.
- Very high mechanical impact strength IK10 (EN/IEC 62262) and a high thermal insulation which results in reduced temperature variations within the enclosure.
- All cabinets are corrosion resistant and UV stabilised for outdoor applications.





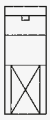
Pedestals

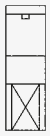
EH1-4 - Overview insulated pedestals

EH1
IP43 / IP23


753 x 385 x 270

EH2
IP44


1097 x 433 x 240


1347 x 433 x 240


1622 x 433 x 240

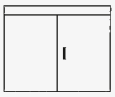

1896 x 433 x 240

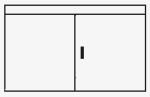
EH3 / F
IP44


875 x 455 x 320
(DIN 00)


875 x 590 x 320
(DIN 0)


875 x 785 x 320
(DIN 1)


875 x 1115 x 320
(DIN 2)


875 x 1445 x 320
(DIN 3)

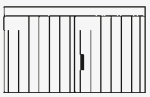
EH3 / AP
IP44


875 x 455 x 320
(DIN 00)

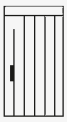

875 x 590 x 320
(DIN 0)

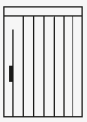

875 x 785 x 320
(DIN 1)


875 x 1115 x 320
(DIN 2)


875 x 1445 x 320
(DIN 3)

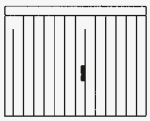

1125 x 455 x 320
(DIN 00)

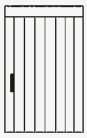

1125 x 590 x 320
(DIN 0)

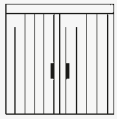

1125 x 785 x 320
(DIN 1)


1125 x 1115 x 320
(DIN 2)

EH3 / AP (continued)
IP44


1125 x 1445 x 320
(DIN 3)

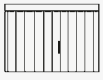

1310 x 785 x 320
(DIN 1)

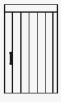

1125 x 1115 x 320
(DIN 2)

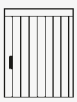
EH3 / GD-AP
IP44

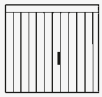

875 x 676 x 541 / 676


875 x 871 x 541 / 676


875 x 1200 x 541 / 676

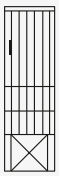

1125 x 676 x 541 / 676


1125 x 871 x 541 / 676


1125 x 1200 x 541 / 676

EH4
IP43


1600 x 395 x 224


1600 x 495 x 224


1600 x 745 x 224

EH4-S
IP44


1420 x 320 x 234


1850 x 320 x 234

H x D x W (mm)

Pedestals

EH1 - Small pedestal



EH1C14VH

Applications
- Cable television
- Gas distribution
- Telecommunication (surface connections)
- Camping sides

Standard: EN / IEC 62208

Specifications
- Small outdoor enclosure with integrated base.
- Hood grey colour RAL 7035:
  - ventilated version in polyester or thermoplastic engineering polymer,
  - non ventilated version in hot moulded, glass fibre reinforced polyester,
  - blackened triangular zamac locking screws, vandalproof and for all seasons.
- - Degrees of protection:
  - IP23D for the non ventilated hoods,
  - IP20 for the ventilated hoods.
- IK09 protection rating against external mechanical impacts in accordance with EN/IEC 62262.
- Rated insulation voltage Ui 690V.
- Base in high density polyethylene (HDPE) RAL 9005.
- Base resists a ground temperature of -50°C.
- The upper part of the base serves as a mounting plate and is provided with three slots for fixation points.
- Moulded-in indication of burial depth.
- Option: 2432E lock.
- Easy to install by one person only (weight: 4.5 kg).
- Dimensions: 753×385×270 (H×W×D in mm).

EH1 - Column cabinet

Type	Type	Order code	Pack
(H x W x D) 753 x 385 x 270 mm			
Ventilated	EH1C14VHNA	4TBE841037C0100	1
Non-ventilated	EH1C14NH	4TBE841038C0100	1
Accessories			
8 mm triangular key	PS832027	4TBP832027C0100	1
Ventilated protective hood	EH1AEEV3	4TBE841039N0100	1
Non-ventilated protective hood	EH1AEEN4	4TBE841040N0100	1
Closure for older models	EH1AEEEI	4TBE841041N0100	1

Pedestals

EH2 - Column cabinets



EH2 - Distribution columns

Applications

- Energy distribution
- Cable television
- Traffic signage and public lighting
- Camp sites and marketplaces
- Gas stations
- Pump applications

Standard: EN / IEC 61439-5

Specifications

- The lower section has a polyester plate closure.
- RAL 7035 dyed in the mass gray color.
- IP44 protection rating in accordance with EN/IEC 60529.
- Total insulation ⧈.
- IK10 protection rating against external mechanical impacts in accordance with EN/IEC 62262.
- Corrosion-resistant.
- UV-stable for exterior installation, improved UV resistance thanks to its special coating.
- Resistant to temperatures of between -35°C and +80°C.
- Temporary temperature increases cause no damage.
- The semi-cylindrical locks are built in to an integral handle, protected by a plastic anti-vandal cover.
- The front section comprises removable cases.
- The mounting holes for receiving M6 threaded inserts located on the rear panel allow direct access for installing sets of busbars, frames or mounting plates.
- The rear and base are made from a single piece.
- The lower section of the column provides a stable mounting into the ground
- The hinged hood has an opening angle of 90°, providing easy access.

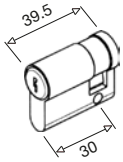
Pedestals

EH2 - Column cabinets



		Type	EH2-NA	EH2-NB	EH2-NC	EH2-ND
		H x W x D	1097x433x240	1347x433x240	1622x433x240	1896x433x240
	Standard	**Type**	EH2C25CH	EH2C35CH	EH2C45CH	EH2C55CH
		Order code	4TBE842072C0100	4TBE842073C0100	4TBE842074C0100	4TBE842075N0100
	Mounting plate	H x W x D	200x395x5	450x395x5	700x395x5	700x395x5
	Pertinax with fixing bolts	**Type**	EH2M25EH	EH2M35EH	EH2M45EH	EH2M45EH
		Order code	4TBE842002C0100	4TBE842000C0100	4TBE842001C0100	4TBE842001C0100

EH2 - Accessories

Product	Type	Order code	Pack
Locks - profile half cylinder type			
	With 2 keys , V2432-E		
	EH3AEECI	4TBE843001C0100	1
	spare keys for EH3AEECI		
	PS832022	4TBP832022C0100	2
	With 1 square key, 8mm		
	EH3AEEQHN	4TBE843002C0100	1
	With an 8mm triangular key		
	EH3AEETHN	4TBE843003C0100	1
	With 2 keys A434		
	EH3UAECI	4TBE843248C0100	1
	Replacement keys upon request.		

Product	Type	Order code	Pack
Inserts			
	M6 x 11 threaded inserts		
	VJ890846	4TBO890846C0100	100
	Punch for inserting M6 threaded barrel		
	Support for cable release clamp (to be ordered separately)		
	APPL	4TBO852004C0100	1

Notes

Pedestals

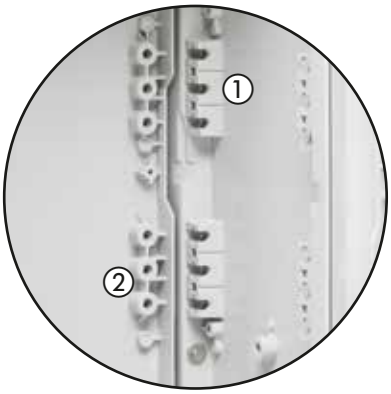
EH3 - DIN size pedestals

Water and dust accumulation prevented by a sloped roof.

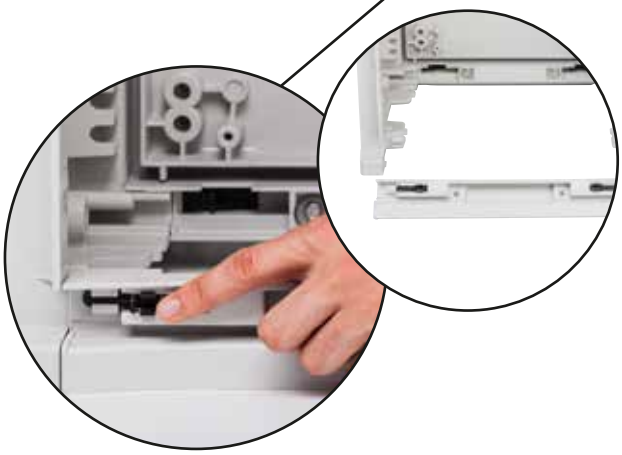




Fixation of bus bars with M8 hexagonal screws in the side wall, to maximize the width and space for electrical devices ①. Fixation of mounting plate with M8 press-in nuts in the back wall to maximize depth for electrical devices ②.



Convenient removal of bottom profile for easy access by tool less slider operation.





Easy fixation of side- /back-wall and roof by use of self tapping screws.







Quick and easy dis-assembly of door with captive hinge pins.



Swing handle for 45mm profile half cylinders with sealable cover.



Vandalism safe door.
hook on doors inner side.



Pedestals

EH3 - DIN size pedestals



EH3 - DIN size pedestals

Applications
- Energy distribution
- Gray water processing
- Cable television
- Solar energy applications
- Camp sites and marketplaces
- Traffic signage and public lighting

Standard: EN / IEC 61439-5

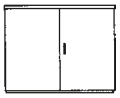
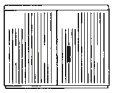
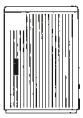
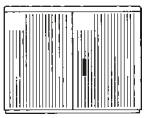
Specifications
- Cabinets made of hot moulded, glass fibre reinforced polyester.
- Dyed in mass RAL 7035 light grey.
- Delivered in kit-form or factory assembled.
- Protection degree IP44 according to EN 60529, IEC 60529.
- Total insulation.
- Protection degree IK10 against external impacts according to EN/IEC 62262.
- Corrosion resistant.
- UV stabilized for outdoor applications, coated cabinets for increased resistance and aesthetics against UV-corrosion available.
- Suitable for use in environments from -35° C to +80° C. Temporary exceeding temperatures will not be harmful.
- The open door can be manually unhinged to allow free access for maintenance. Door opening angle exceeds 180°.
- Studs are moulded in the rear panel which can receive M8 inserts to allow direct mounting at busbars, a frame or a mounting plare for components.
- Fixation points at the side panel are foreseen to mount busbars.
- Supplied with open bottom.
- To be mounted on a basement according to DIN 43629 standard dimensions between the fixation points.
- The rainhood shape prevents water stagnation on the roof.
- Removable bottom profile for easy cable access without tools.

EH3/F - flat surface pedestals
- 4 different widths; all sizes have the same height and depth.
- The swing handle is designed to receive a half profile cylindric lock.

EH3/AP - anti poster pedestals
- 5 widths with 2 different heights; all sizes have the same depth.
- 3-point closure system, exposed handle-actuated.
- The robust handle leaves more space inside the cabinet and is compatible with a profiled semi-cylindrical lock.
- The doors and rear panel are profiled, which prevents the affixing of posters.

Pedestals

EH3 - DIN size pedestals

		DIN 00	DIN 0	DIN 1	DIN 2	
Type EH3 / F (H=875) **IP44**						
		EH3 / F - 00	**EH3 / F - 0**	**EH3 / F - 1**	**EH3 / F - 2**	
	H x W x D	875x455x320	875x590x320	875x785x320	875x1115x320	
Factory-assembled	**Type**	EH3C8XC1	EH3C80S1	EH3C81S1	EH3C82S1	
	Order code	4TBE843670C0100	4TBE843158C0100	4TBE843160C0100	4TBE843162C0100	
Type EH3 / AP (H=875) **IP44**						
		EH3 / AP - 00	**EH3 / AP - 0**	**EH3 / AP - 1**	**EH3 / AP - 2**	**EH3 / AP - 3**
	H x W x D	875x455x320	875x590x320	875x785x320	875x1115x320	875x1445x320
Factory-assembled	**Type**	EH3C8XC2	EH3C80S2	EH3C81S2	EH3C82S2	EH3C83S2
	Order code	4TBE843672C0100	4TBE843176C0100	4TBE843177C0100	4TBE843178C0100	4TBE843179C0100
Assembled, with UV coating	**Type**	EH3U8XC2	EH3U80S2	EH3C91S2	EH3C92S2	EH3C93S2
	Order code	4TBE843673N0100	4TBE843480C2100	4TBE843181C0100	4TBE843182C0100	4TBE843183C0100
Type EH3 / AP (H=1125) **IP44**						
		EH3 / AP - 200	**EH3 / AP - 20**	**EH3 / AP - 21**	**EH3 / AP - 22**	**EH3 / AP - 23**
	H x W x D	1125x455x320	1125x590x320	1125x785x320	1125x1115x320	1125x1445x320
Factory-assembled	**Type**	EH3C9XC2	EH3C90S2	EH3C91S2	EH3C92S2	EH3C93S2
	Order code	4TBE843676C0100	4TBE843180C0100	4TBE843181C0100	4TBE843182C0100	4TBE843183C0100
Assembled, with UV coating	**Type**	EH3U9XC2	EH3U90S2	EH3U91S2	EH3U92S2	EH3U93S2
	Order code	4TBE843677N0100	4TBE843484N2100	4TBE843485N2100	4TBE843486N2100	4TBE843487C2100
Assembled, with UV and anti-graffiti coating	**Type**	EHP3200DAG	EHP320DAG	EHP321DAG	EHP322DAG	EHP323DAG
	Order code	4TBE843731C0100	4TBE843732C0100	4TBE843733C0100	4TBE843734C0100	4TBE843735C0100

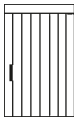
Pedestals

EH3 - DIN size pedestals

EH3 / DC - DIN 2 Pedestals with separate compartments

Product			Type	Order code	Pack
EH3 / DC - 2		H x D x W			
	Assembled with 2 double-closure handles	1125 x 1115 x 320	EH3C92D2	4TBE843576C0100	
	Pertinax mounting plate with mounting bolts	915 x 445 x 5	EH3A95P5	4TBE843728C0100	
		915 x 445 x 10	EH3A95P10	4TBE843729C0100	
	2 mounting plates are required per cabinet				

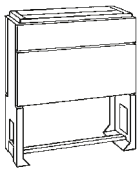
EH3 DIN1 pedestals - Height 1310 mm

EH3 / AP 31 - DIN 1		H x D x W			
	Assembled with handles	1310 x 785 x 320	EH3C61C2	4TBE843689C0100	
	Assembled with double-locking handle	1310 x 785 x 320	EH3C61D2	4TBE843692C0100	
	Pertinax mounting plate with mounting bolts	1100 x 680 x 5	EH3M61EH	4TBE843693C0100	

Pedestals

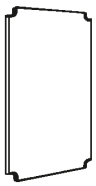
EH3 - Accessories

DIN bases



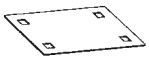
		DIN 00	DIN 0	DIN 1	DIN 2	DIN 3
	HxWxD	900x450x310	900x585x310	900x780x310	900x1110x310	900x1430x310
Factory-assembled	**Type**	EH3BEXEH	EH3BE0EH	EH3BE1EH	EH3BE2EH	-
	Order code	4TBE843390N0100	4TBE843391N0100	4TBE843392N0100	4TBE843393C0100	
Polyester base, supplied in kit form, RAL 7035	**Type**	EH3SEXEI	EH3SE0EI	EH3SE1EI	EH3SE2EI	EH3SE3EI
	Order code	4TBE843204R0100	4TBE843205R0100	4TBE843206R0100	4TBE843207R0100	4TBE843208R0100
Base made from recycled material Construction kit, Color similar to RAL 7035	**Type**	EH3SEXEH	EH3SE0EH	EH3SE1EH	EH3SE2EH	EH3SE3EH
	Order code	4TBE842098R0100	4TBE842099R0100	4TBE842100R0100	4TBE842101R0100	4TBE843144R0100

Mounting plates



		DIN 00	DIN 0	DIN 1	DIN 2	DIN 3
	HxWxD	665x350x5	665x485x5	665x680x5	705x1000x5	705x1340x5
Pertinax mounting plate	**Type**	EH3M8XEH	EH3M80EH	EH3M81EH	EH3M82EH	EH3M83EI
	Order code	4TBE843681C0100	4TBE843024C0100	4TBE843044C0100	4TBE843057C0100	4TBE843067C0100
	HxWxD	915x350x5	915x485x5	915x680x5	955x1000x5	955x1340x5
Height 1125 mm	**Type**	EH3M9XEH	EH3M90EH	EH3M91EH	EH3M92EH	EH3M93EI
	Order code	4TBE843682C0100	4TBE843070C0100	4TBE843071C0100	4TBE843072C0100	4TBE843256C0100

Base plates

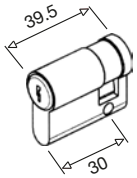
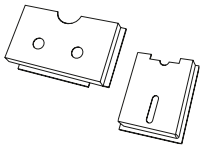
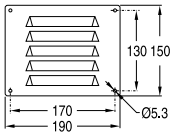


		DIN 00	DIN 0	DIN 1	DIN 2	DIN 3
	HxWxD	427x285x3	562x285x3	757x285x3	1086x285x3	1416x285x3
Base plate 3 mm polyester with securing screws	**Type**	EH3PEXEI	EH3PE0EH	EH3PE1EH	EH3PE2EH	EH3PE3EH
	Order code	4TBE843683C0100	4TBE843300C0100	4TBE843301C0100	4TBE843302C0100	4TBE843303C0100

Pedestals

EH3 - Accessories

EH3 - Accessories

Product	Type	Order code	Pack
Locks with profile half cylinder			
 	With 2 keys , V2432-E		
	EH3AEECI	4TBE843001C0100	1
	Spare keys for EH3AEECI		
	PS832022	4TBP832022C0100	2
	With 1 square key, 8 mm		
	EH3AEEQH	4TBE843002C0100	1
	With an 8 mm triangular key		
	EH3AEETH	4TBE843003C0100	1
	With 2 keys A434		
	EH3UAECI	4TBE843248C0100	1
	Spare keys upon request.		
Diagram holder			
	DIN A4 - W x H = 325 x 180 mm		
	AR811516	4TBX811516R0100	1
	DIN A5 - W x H= 155 x 225 mm		
	PS832000	4TBP832000C0100	1
IP44 ventilation grille			
 	Set of 2 pieces		
	PS832019	4TBP832019C0100	1
	Suitable for a ventilation opening Includes 2 grilles and 4 nylon nails. Total insulation. RAL 7035		
Threaded insert			
	M8 threaded insert Dodge-type for rear wall and door.		
	APTIM4	4TBO851026C0100	100

Product	Type	Order code	Pack
Handle			
	Handle for lock with a profile half cylinder		
	EH3EEESH	4TBE843000C0100	1
	Spare part		
Double closure handle			
	For two locks with profile half cylinder		
	EH3AEEDH	4TBE783042C0100	1
	Spare part (Note: for after-market installation, an operation is required on the door mechanism).		

Pedestals

EH3 - Accessories

EH3 - Accessories

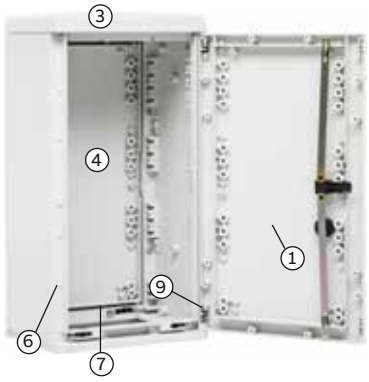
Product	Type	Order code	Pack
Front plate with opening for temporary connections on DIN base			
May be used with DIN -00 to -2 bases in RAL 7035 color (EH3SEXEI-EH3SE2EI). This front plate is not standard and must be ordered in addition. The standard closed front plate may be used if it is not necessary for temporary connections. The DIN 3 base is standard with a front plate for temporary connections. The front plates on the front and rear are secured by screws.			
	For DIN 0 base - EH3SE0EI - 1 opening		
	EH3TE0EE	4TBE843713R0100	1
	For DIN 1 base - EH3SE1EI - 1 opening		
	EH3TE1EE	4TBE843714R0100	1
	For DIN 2 base - EH3SE2EI - 2 openings		
	EH3TE2EE	4TBE843715R0100	1
	Standard DIN 3 base with a front plate for temporary connections. The front plates on the front and rear are secured by screws.		
	EH3TE3EE	4TBE843716R0100	1

Product	Type	Order code	Pack
Door locking			
	May be installed on left-hand or right-hand swinging doors. Mounting by drilling 2 holes in the interior profile. Includes mounting parts.		
	EH3AEEEZ	4TBE843007C0100	1
Screws (replacement parts)			
	Clip-in button Hilo 5.8 x 16 mm		
	EH3AEEEN	4TBE843556C0100	1
	Clip-in button Hilo 5.8 x 22 mm		
	EH3OEEEG	4TBE890278C0100	1
Mounting bolts for mounting plates (replacement parts)			
	DIN 00-0-1		
	EH3AE0EI	4TBE843566C0100	1
	DIN 2-3		
	EH3AE2EI	4TBE843567C0100	1

Pedestals

EH3 - system parts

EH3 / F (H = 875)



	Type		DIN 00	
	EH3 / F (H=875)		EH3 / F - 00	
			left-hand	right-hand
①	Door (with handle)	Type		EH3A8XC1
		Order code		4TBE843639N0100
②	Door stop	Type	-	-
		Order code		
③	Hood	Type	EH3AEXE5	EH3AEXE5
		Order code	4TBE843634C0100	4TBE843634C0100
④	Rear wall **(you will require 2 for DIN2 and DIN3)**	Type	EH3A8XE7	EH3A8XE7
		Order code	4TBE843636C0100	4TBE843636C0100
⑤	Center cross member	Type	-	-
		Order code		
⑥	Side panel	Type	EH3A8EEN	EH3A8EEM
		Order code	4TBE843592C0100	4TBE843591C0100
⑦	Base profile	Type	EH3AEXEC	EH3AEXEC
		Order code	4TBE843514C0100	4TBE843514C0100
⑧	Cross member	Type	-	-
		Order code		
⑨	Set of hinges **(you will require 2 for DIN2 and DIN3)**	Type	EH3AEEEL	EH3AEEEL
		Order code	4TBE843445C0100	4TBE843445C0100
⑩	Set of accessories	Type	EH3AE0EG	EH3AE0EG
		Order code	4TBE843447N0100	4TBE843447N0100

	Type		DIN 00	
	EH3 / AP (H=875)			
			left-hand	right-hand
①	Door (with handle)	Type		EH3A8XC2
		Order code		4TBE843640C0100
②	Door stop	Type	-	-
		Order code		
③	Hood	Type	EH3AEXE5	EH3AEXE5
		Order code	4TBE843634C0100	4TBE843634C0100
④	Rear wall **(you will require 2 for DIN2 and DIN3)**	Type	EH3A8XE8	EH3A8XE8
		Order code	4TBE843637C0100	4TBE843637C0100
⑤	Center cross member	Type	-	-
		Order code		
⑥	Side panel	Type	EH3A8EEN	EH3A8EEM
		Order code	4TBE843592C0100	4TBE843591C0100
⑦	Base profile	Type	EH3AEXEC	EH3AEXEC
		Order code	4TBE843514C0100	4TBE843514C0100
⑧	Cross member	Type	-	-
		Order code		
⑨	Set of hinges **(you will require 2 for DIN2 and DIN3)**	Type	EH3AEEEL	EH3AEEEL
		Order code	4TBE843445C0100	4TBE843445C0100
⑩	Set of accessories	Type	EH3AE0EG	EH3AE0EG
		Order code	4TBE843447N0100	4TBE843447N0100

For polyester parts with anti-erosion UV coating, please contact us.

① Door (with handle)
② Door stop
③ Hood
④ Rear wall
⑤ Center cross member
⑥ Side panel
⑦ Base profile
⑧ Cross member
⑨ Set of hinges
⑩ The set of accessories includes bolts, washers and nuts for polyester cabinet assembly.

Pedestals

EH3 - system parts

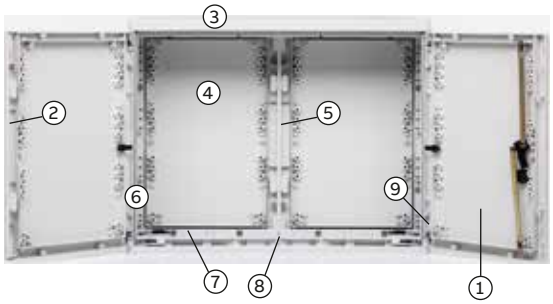
DIN 0		DIN 1		DIN 2	
EH3 / F - 0		EH3 / F - 1		EH3 / F - 2	
left-hand	right-hand	left-hand	right-hand	left-hand	right-hand
	EH3A80E1		EH3A81SH	EH3A82EM	EH3A82CA
	4TBE843035N0100		4TBE843049N0100	4TBE843615C0100	4TBE843614C0100
-	-	-	-	EH3A8EER	EH3A8EER
				4TBE843605C0100	4TBE843605C0100
EH3AE0EJ	EH3AE0EJ	EH3AE1EH	EH3AE1EH	EH3AE2EJ	EH3AE2EJ
4TBE843599C0100	4TBE843599C0100	4TBE843600C0100	4TBE843600C0100	4TBE843601C0100	4TBE843601C0100
EH3A80EI	EH3A80EI	EH3A81EF	EH3A81EF	EH3A82EF	EH3A82EF
4TBE843519C0100	4TBE843519C0100	4TBE843521C0100	4TBE843521C0100	4TBE843607C0100	4TBE843607C0100
-	-	-	-	EH3A8EEQ	EH3A8EEQ
				4TBE843603C0100	4TBE843603C0100
EH3A8EEN	EH3A8EEM	EH3A8EEN	EH3A8EEM	EH3A8EEN	EH3A8EEM
4TBE843592C0100	4TBE843591C0100	4TBE843592C0100	4TBE843591C0100	4TBE843592C0100	4TBE843591C0100
EH3AE0EH	EH3AE0EH	EH3AE1EC	EH3AE1EC	EH3AE2EH	EH3AE2EH
4TBE843515C0100	4TBE843515C0100	4TBE843516C0100	4TBE843516C0100	4TBE843517C0100	4TBE843517C0100
-	-	-	-	-	-
EH3AEEEL	EH3AEEEL	EH3AEEEL	EH3AEEEL	EH3AEEEL	EH3AEEEL
4TBE843445C0100	4TBE843445C0100	4TBE843445C0100	4TBE843445C0100	4TBE843445C0100	4TBE843445C0100
EH3AE0EG	EH3AE0EG	EH3AE0EG	EH3AE0EG	EH3AE2EG	EH3AE2EG
4TBE843447N0100	4TBE843447N0100	4TBE843447N0100	4TBE843447N0100	4TBE843452C0100	4TBE843452C0100

DIN 0		DIN 1		DIN 2		DIN 3	
EH3 / AP - 0		EH3 / AP - 1		EH3 / AP - 2		EH3 / AP - 3	
left-hand	right-hand	left-hand	right-hand	left-hand	right-hand	left-hand	right-hand
	EH3A80S2		EH3A81S2	EH3A82C2	EH3A82S2	EH3A83CA	EH3A83SH
	4TBE843101C0100		4TBE843104C0100	4TBE843538N0100	4TBE843108C0100	4TBE843542N0100	4TBE843369C0100
-	-	-	-	EH3A8EER	EH3A8EER	EH3A8EER	EH3A8EER
				4TBE843605C0100	4TBE843605C0100	4TBE843605C0100	4TBE843605C0100
EH3AE0EJ	EH3AE0EJ	EH3AE1EH	EH3AE1EH	EH3AE2EJ	EH3AE2EJ	EH3AE3EJ	EH3AE3EJ
4TBE843599C0100	4TBE843599C0100	4TBE843600C0100	4TBE843600C0100	4TBE843601C0100	4TBE843601C0100	4TBE843602C0100	4TBE843602C0100
EH3A83EA	EH3A83EA	EH3A81EA	EH3A81EA	EH3A82EL	EH3A82EL	EH3A83EL	EH3A83EL
4TBE843531C0100	4TBE843531C0100	4TBE843533C0100	4TBE843533C0100	4TBE843609C0100	4TBE843609C0100	4TBE843610C0100	4TBE843610C0100
-	-	-	-	EH3A8EEQ	EH3A8EEQ	EH3A8EEQ	EH3A8EEQ
				4TBE843603C0100	4TBE843603C0100	4TBE843603C0100	4TBE843603C0100
EH3A8EEN	EH3A8EEM	EH3A8EEN	EH3A8EEM	EH3A8EEN	EH3A8EEM	EH3A8EEN	EH3A8EEM
4TBE843592C0100	4TBE843591C0100	4TBE843592C0100	4TBE843591C0100	4TBE843592C0100	4TBE843591C0100	4TBE843592C0100	4TBE843591C0100
EH3AE0EH	EH3AE0EH	EH3AE1EC	EH3AE1EC	EH3AE2EH	EH3AE2EH	EH3AE3EI	EH3AE3EI
4TBE843515C0100	4TBE843515C0100	4TBE843516C0100	4TBE843516C0100	4TBE843517C0100	4TBE843517C0100	4TBE843518C0100	4TBE843518C0100
-	-	-	-	-	-	-	-
EH3AEEEL	EH3AEEEL	EH3AEEEL	EH3AEEEL	EH3AEEEL	EH3AEEEL	EH3AEEEL	EH3AEEEL
4TBE843445C0100	4TBE843445C0100	4TBE843445C0100	4TBE843445C0100	4TBE843445C0100	4TBE843445C0100	4TBE843445C0100	4TBE843445C0100
EH3AE0EG	EH3AE0EG	EH3AE0EG	EH3AE0EG	EH3AE2EG	EH3AE2EG	EH3AE2EG	EH3AE2EG
4TBE843447N0100	4TBE843447N0100	4TBE843447N0100	4TBE843447N0100	4TBE843452C0100	4TBE843452C0100	4TBE843452C0100	4TBE843452C0100

Pedestals

EH3 - system parts

EH3 / AP (H = 1125)



	Type		DIN 00	
	EH3 / AP (H = 1125)			
			left-hand	right-hand
①	Door (with handle)	Type		EH3A9XC2
		Order code		4TBE843641C0100
②	Door stop	Type	-	-
		Order code		
③	Hood	Type	EH3AEXE5	EH3AEXE5
		Order code	4TBE843634C0100	4TBE843634C0100
④	Rear wall **(you will require 2 for DIN2 and DIN3)**	Type	EH3A9XE8	EH3A9XE8
		Order code	4TBE843638C0100	4TBE843638C0100
⑤	Center cross member	Type	-	-
		Order code		
⑥	Side panel	Type	EH3A9EEM	EH3A9EEL
		Order code	4TBE843594C0100	4TBE843593C0100
⑦	Base profile	Type	EH3AEXEC	EH3AEXEC
		Order code	4TBE843514C0100	4TBE843514C0100
⑧	Cross member	Type	-	-
		Order code		
⑨	Set of hinges **(you will require 2 for DIN2 and DIN3)**	Type	EH3AEEEL	EH3AEEEL
		Order code	4TBE843445C0100	4TBE843445C0100
⑩	Set of accessories	Type	EH3AE0EG	EH3AE0EG
		Order code	4TBE843447N0100	4TBE843447N0100

Note: Set of accessories including bolts, washers and nuts for mounting separate parts inside the cabinet.

① Door (with handle)
② Door stop
③ Hood
④ Rear wall
⑤ Center cross member
⑥ Side panel
⑦ Base profile
⑧ Cross member
⑨ Set of hinges
⑩ The set of accessories includes bolts, washers and nuts for polyester cabinet assembly.

Pedestals

EH3 - system parts

DIN 0		DIN 1		DIN 2		DIN 3	
EH3 / AP - 20		EH3 / AP - 21		EH3 / AP - 22		EH3 / AP - 23	
left-hand	right-hand	left-hand	right-hand	left-hand	right-hand	left-hand	right-hand
	EH3A90S1		EH3A91S1	EH3A92EJ	EH3A92CA	EH3A93EL	EH3A93CA
	4TBE843117N0100		4TBE843120C0100	4TBE843627C0100	4TBE843626C0100	4TBE843630C0100	4TBE843629C0100
-	-	-	-	EH3A9EEQ	EH3A9EEQ	EH3A9EEQ	EH3A9EEQ
				4TBE843606C0100	4TBE843606C0100	4TBE843606C0100	4TBE843606C0100
EH3AE0EJ	EH3AE0EJ	EH3AE1EH	EH3AE1EH	EH3AE2EJ	EH3AE2EJ	EH3AE3EJ	EH3AE3EJ
4TBE843599C0100	4TBE843599C0100	4TBE843600C0100	4TBE843600C0100	4TBE843601C0100	4TBE843601C0100	4TBE843602C0100	4TBE843602C0100
EH3A90E8	EH3A90E8	EH3A91EA	EH3A91EA	EH3A92EA	EH3A92EA	EH3A93EK	EH3A93EK
4TBE843543C0100	4TBE843543C0100	4TBE843545C0100	4TBE843545C0100	4TBE843611C0100	4TBE843611C0100	4TBE843612C0100	4TBE843612C0100
-	-	-	-	EH3A9EEP	EH3A9EEP	EH3A9EEP	EH3A9EEP
				4TBE843604C0100	4TBE843604C0100	4TBE843604C0100	4TBE843604C0100
EH3A9EEM	EH3A9EEL	EH3A9EEM	EH3A9EEL	EH3A9EEM	EH3A9EEL	EH3A9EEM	EH3A9EEL
4TBE843594C0100	4TBE843593C0100	4TBE843594C0100	4TBE843593C0100	4TBE843594C0100	4TBE843593C0100	4TBE843594C0100	4TBE843593C0100
EH3AE0EH	EH3AE0EH	EH3AE1EC	EH3AE1EC	EH3AE2EH	EH3AE2EH	EH3AE3EI	EH3AE3EI
4TBE843515C0100	4TBE843515C0100	4TBE843516C0100	4TBE843516C0100	4TBE843517C0100	4TBE843517C0100	4TBE843518C0100	4TBE843518C0100
-	-	-	-	EH3AEEES	EH3AEEES	EH3AEEES	EH3AEEES
				4TBE843631C0100	4TBE843631C0100	4TBE843631C0100	4TBE843631C0100
EH3AEEEL	EH3AEEEL	EH3AEEEL	EH3AEEEL	EH3AEEEL	EH3AEEEL	EH3AEEEL	EH3AEEEL
4TBE843445C0100	4TBE843445C0100	4TBE843445C0100	4TBE843445C0100	4TBE843445C0100	4TBE843445C0100	4TBE843445C0100	4TBE843445C0100
EH3AE0EG	EH3AE0EG	EH3AE0EG	EH3AE0EG	EH3AE2EG	EH3AE2EG	EH3AE2EG	EH3AE2EG
4TBE843447N0100	4TBE843447N0100	4TBE843447N0100	4TBE843447N0100	4TBE843452C0100	4TBE843452C0100	4TBE843452C0100	4TBE843452C0100

Pedestals

EH3 / GD - DIN size pedestals deep version



EH3 GD deep cabinets

Applications

- Energy distribution
- Gas meter cabinet
- Control cabinet and
- Generators and transformer stations
- Pump house installation
- Cabinet for 19" power supply frame
- Rectifiers

Standard: EN / IEC 61439-5

Specifications and advantages

- Doors, back and side walls made from hot molded glass fiber-reinforced polyester.
- RAL 7035 dyed in the mass gray color.
- Glass fiber-reinforced hand lay-up polyester hood.
- Hood with RAL 7035 outer coating.
- Nine sizes in two heights, two depths and three widths. Cabinets supplied assembled.
- Supplied factory-assembled or in kit form.
- IP44 protection rating in accordance with EN/IEC 60529.
- Total insulation ⧈.
- IK10 protection rating against external mechanical impacts in accordance with EN/IEC 62262.
- Corrosion-resistant.
- UV-stable for outdoors installation.
- Resistant to temperatures of between -35 C and +80 C.

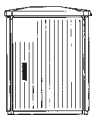
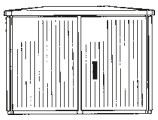
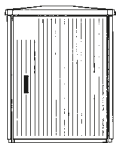
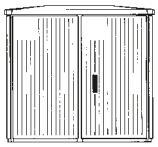
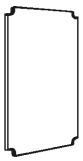
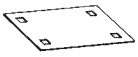
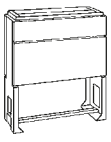
Temporary temperature increases cause no damage

- This handle is not flush-fitting, increases the usable depth of the cabinet and can be fitted with semi-cylindrical locks.
- Doors can be removed manually for ease of access for maintenance tasks.
- Option to have the door side-opening or bottom-opening.
- The mounting holes for receiving M8 threaded inserts located on the rear panel allow direct access for installing sets of busbars, frames or mounting plates.
- Option to have the door side-opening or bottom-opening.
- Supplied with mounting points for installation on the ground or on a base.
- The shape of the hood prevents standing water which could stagnate.
- The anti-poster surfaces make it very difficult to affix posters and result in them falling away.

Pedestals

EH3 / GD - DIN size pedestals deep version

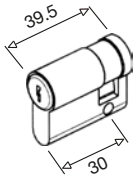
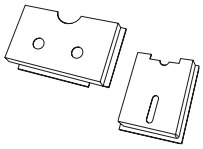
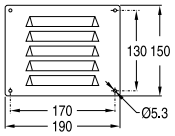
EH3 / GD - DIN size pedestals deep version

		Width	676	871	1200
Type EH3 / GD Height 875 mm IP44 assembled cabinet					
		Type	**EH3 / GD-AP - 031**	**EH3 / GD-AP - 041**	**EH3 / GD-AP - 051**
		HxWxD	875x676x541	875x871x541	875x1200x541
Depth 541 mm		**Type**	EH3G86C2	EH3G87C2	EH3G88C2
		Order code	4TBE843645C0100	4TBE843646C0100	4TBE843647N0100
Type EH3 / GD Height 1125 mm IP44 assembled cabinet					
		Type	**EH3 / GD-AP - 233**	**EH3 / GD-AP - 243**	**EH3 / GD-AP - 253**
		HxWxD	1125x676x541	1125x871x541	1125x1200x541
Depth 541 mm		**Type**	EH3G96C2	EH3G97C2	EH3G98C2
		Order code	4TBE843651C0100	4TBE843652C0100	4TBE843653C0100
		HxWxD	1125x676x676	1125x871x676	1125x1200x676
Depth 676 mm		**Type**	EH3G96CA	EH3G97CA	EH3G98CA
		Order code	4TBE843654C0100	4TBE843655C0100	4TBE843656C0100
	**Mounting plate**	HxWxD	665x485x5	665x680x5	705x1000x5
	Height = 875 mm	**Type**	EH3M80EH	EH3M81EH	EH3M82EH
		Order code	4TBE843024C0100	4TBE843044C0100	4TBE843057C0100
		HxWxD	915x485x5	915x680x5	915x1000x5
	Height = 1125 mm	**Type**	EH3M90EH	EH3M91EH	EH3M92EH
		Order code	4TBE843070C0100	4TBE843071C0100	4TBE843072C0100
	**Base plate**	HxWxD	676 x 541	871 x 541	1200 x 541
	Depth = 541 mm	**Type**	EH3PE6EH	EH3PE7EH	EH3PE8EH
		Order code	4TBE843657C0100	4TBE843658C0100	4TBE843659C0100
		HxWxD	676 x 676	871 x 676	1200 x 676
	Depth = 676 mm	**Type**	EH3PE6EI	EH3PE7EI	EH3PE8EI
		Order code	4TBE843660C0100	4TBE843661C0100	4TBE843662C0100
	3 mm polyester with securing screws				
	**Polyester base - Supplied in kit form for cabinets**	HxWxD	900x676x541	900x871x541	900x1200x541
	Depth = 541 mm	**Type**	EH3BE6EH	EH3BE7EH	EH3BE8EH
		Order code	4TBE843663C0100	4TBE843664C0100	4TBE843665C0100
		HxWxD	900x676x676	900x871x676	900x1200x676
	Depth = 676 mm	**Type**	EH3BE6EI	EH3BE7EI	EH3BE8EI
		Order code	4TBE843666C0100	4TBE843667C0100	4TBE843668C0100

Pedestals

EH3 / GD - Accessories

EH3 - Accessories

Product	Type	Order code	Pack
Locks with profile half cylinder			
 	With 2 keys , V2432-E		
	EH3AEECI	4TBE843001C0100	1
	Spare keys for EH3AEECI		
	PS832022	4TBP832022C0100	2
	With 1 square key, 8 mm		
	EH3AEEQH	4TBE843002C0100	1
	With an 8 mm triangular key		
	EH3AEETH	4TBE843003C0100	1
	With 2 keys A434		
	EH3UAECI	4TBE843248C0100	1
	Spare keys upon request.		
Diagram holder			
	DIN A4 - W x H = 325 x 180 mm		
	AC811516	4TBC811516C0100	1
	DIN A5 - W x H= 155 x 225 mm		
	PS832000	4TBP832000C0100	1
IP44 ventilation grille			
 	Set of 2 pieces		
	PS832019	4TBP832019C0100	1
	Suitable for a ventilation opening Includes 2 grilles and 4 nylon nails. Total insulation. RAL 7035		
Threaded insert			
	M8 threaded insert Dodge-type for rear wall and door.		
	APTIM4	4TBO851026C0100	100

Product	Type	Order code	Pack
Handle			
	Handle for lock with a profile half cylinder		
	EH3EEESH	4TBE843000C0100	1
	Spare part		
Double closure handle			
	For two locks with profile half cylinder		
	EH3AEEDH	4TBE783042C0100	1
	Spare part (Note: for after-market installation, an operation is required on the door mechanism).		

Pedestals

EH4 - Column cabinets



EH4 Column Cabinets

Applications
- Energy distribution
- Cable television
- Traffic signaling
- Camp sites
- Gas stations

Standard: EN / IEC 61439-5

Specifications
- Doors, back and side walls made from hot molded glass fiber-reinforced polyester.
- RAL 7035 dyed in the mass gray color.
- IP44 protection rating in accordance with EN/IEC 60529.
- Total insulation ⧈.
- IK10 protection rating against external mechanical impacts in accordance with EN/IEC 62262.
- Corrosion-resistant.
- UV-stable for outdoors installation.
- Resistant to temperatures of between -35 C and +80 C, temporary temperature increases cause no damage.
- The mounting holes for receiving M6 threaded inserts located on the rear panel allow direct access for installing sets of busbars, frames or mounting plates.
- The lower section of the column provides a stable mounting into the ground
- The shape of the hood prevents standing water which could stagnate.

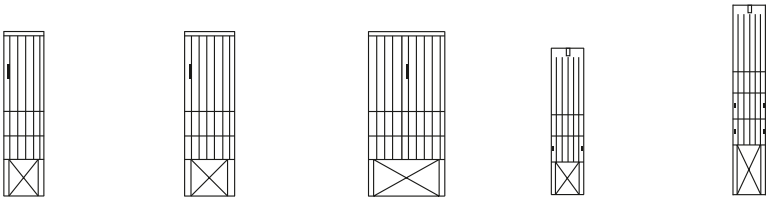
EH4
- Cabinet with hinged door - IP44.
- The column and lower section are supplied together.
- Supplied with handle for semi-cylindrical lock.
- Door opening angle of 180°.

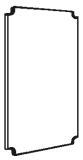
EH4-S
- Cabinet with removable front components - IP44.
- The lower and rear sections of the column are molded as a single piece.
- The front of the column has a recessed housing for a cylindrical
- lock, protected by a plastic anti-vandalism cover.
- Easy to access thanks to removable front panels.

Pedestals

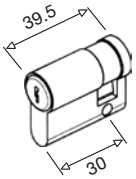
EH4 - Column cabinets

EH4/ EH4S - Distribution columns



		Width	**395**	**495**	**745**	**320**	**320**
		Type	**EH4-00**	**EH4-0**	**EH4-1**	**EH4-S1**	**EH4-S2**
		HxWxD	1600 x 395 x 224	1600 x 495 x 224	1600 x 745 x 224	1420 x 320 x 234	1850 x 320 x 234
		Type	EH4CAECH	EH4CAECI	EH4CAEL	EH4CB9CH	EH4CC9CH
		Order code	4TBE844130R0100	4TBE844131R0100	4TBW844132C0100	4TBE844153R0100	4TBE844185R0100
		HxWxD	790 x 370 x 5	790 x 470 x 5	790 x 720 x 5	600 x 278 x 5	950 x 278 x 5
	Pertinax mounting plate with securing screws	**Type**	EH4MEXEH	EH4ME0EH	EH4ME1EH	EH4MB9EH	EH4MC9EH
		Order code	4TBE844133C0100	4TBE844134C0100	4TBE844135N0100	4TBE844154R0100	4TBE844186R0100

Accessories

Product	Type	Order code	Pack
Locks with profile half cylinder			
	For EH4 - security lock V2432E		
	PS832030	4TBP832030C0100	1
	Spare keys for PS832030		
	PS832741	4TBP832741R0100	2
	For EH4 - security lock V2432E with double closure		
	PS832331	4TBE832331R0100	1
	Spare keys for 843001		
	PS832022	4TBP832022C0100	1
	Spare keys upon request.		

Product	Type	Order code	Pack
Double closure handle			
	For two locks with profile half cylinder		
	EH4AEEDH	4TBE844152R0100	1
	Spare part (Note: for after-market installation, an operation is required on the door mechanism).		

Electrical installation solutions for buildings
Junction boxes

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Europa65 junction boxes

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Livorno Series emergency consumer units

Technical details designed to facilitate installation

Three degrees of protection IP40, IP55, IP65 allow to install these emergency consumer units in any environment, residential, tertiary or industrial.

The self-extinguishing thermoplastic frame ensures resistance to abnormal heat and fire



The front door is equipped with a protective glass that can be broken in case of need using the glass-breaking hammer (included)

The flush-mounting, wall-mounting or DIN rail versions offer extensive installation choices

Livorno Series emergency consumer units
Technical details designed to facilitate installation



The Livorno Series is a range of emergency consumer units equipped with an emergency breakable glass to quickly and effectively stop systems or services in the case of malfunctions or dangers that may occur in residential, tertiary or industrial installations.

Made of self-extinguishing thermoplastic material, these devices are mainly installed in those environments that have greater risk of fire.
The flush- and wall-mounting versions can be equipped with a luminous button and glass-breaking hammer.

Enclosures

Livorno Series emergency consumer units



Consumer units, technical specifications

Protection class	IP40, IP55 or IP65, according to version.
Version	flush- and wall-mounting.
Colour	RAL 3000 red and RAL 7035 grey.
Installation temperature	-25°C ÷ +60°C.
Resistance to heat	ball thermopressure up to +85°C according to EN 60695-10-2 standard.
Front door	breakable glass 0.75 (IK05 degree).
Material	self-extinguishing thermoplastic material, resistant to abnormal heat and fire up to 650°C (glow wire test), according to IEC 60695-2-11 standard.
Door lock	coded-type key
Included accessories	module covers (per DIN rail versions)
	4 screw cover plugs
	certification plate

Consumer units with emergency button, technical specifications

Protection degree	IP55.
Version	flush- and wall-mounting
Colour	RAL 3000 red.
Installation temperature	-25°C ÷ +60°C.
Rated operating voltage Ue	250 V.
Utilisation category	AC 12.
Rated operating voltage Ie	2 A.
Rated insulation voltage Ui	250 V.
Pollution degree	3.
Fuses	10 A, gG type, 10.3x38 mm.
Front door	breakable glass 0.75 (IK05 degree).
Material	self-extinguishing thermoplastic material, resistant to abnormal heat and fire up to 650°C (glow wire test), according to IEC 60695-2-11 standard.
Luminous button	with 1 NO contact + 1 NC contact (2 A, 250 V).
Included accessories	glass-breaking hammer.
Optional accessories	12 or 24 V bulb lamp (incandescent), or 250 V (fluorescent).
Conformity	EN 60947-5-1 standard.
Mark of approval	IMQ according to EN 60947-5-1

Enclosures

Livorno Series emergency consumer units



13 183



13 143

Description	IP rating	Dimensions WxHxD [mm]	Order details		Pack. pc.
			Type	Order code	
Flush-mounting version					
RAL 3000 red colour. Possible installation on flush-mounting box with 83.5 mm centre distance. Equipped with luminous button (bulb lamp* - 12 V and 24 V incandescent or 250 V fluorescent), with 1 NO contact + 1 NC contact (2 A, 250 V), complete with glass-breaking hammer. Ⓜ	IP55	100x100x50	-	13 183	1/13
RAL 7035 grey colour. With DIN rail x 6 mod.	IP40	200x245x82	-	13 143	1/7

* lamp not included

Enclosures

Livorno Series emergency consumer units



13 180



13 171 - 13 175

Description	IP rating	Dimensions WxHxD [mm]	Order details		Pack. pc.
			Type	Order code	
Wall-mounting version					
RAL 3000 red colour. Equipped with luminous button (bulb lamp* - 12 V and 24 V incandescent or 250 V fluorescent), with 1 NO contact + 1 NC contact (2 A, 250 V), complete with glass-breaking hammer. Ⓜ	IP55	100x100x50	-	13 180	1/14
RAL 3000 red colour. Equipped with flanges for easy branch connections. With DIN rail x 8 mod.	IP65	205x220x140	-	13 171	1/6
RAL 3000 red colour. Equipped with flanges for easy branch connections. With panel.	IP65	205x220x140	-	13 175	1/6

* lamp not included

Enclosures

Livorno Series emergency consumer units



13 190



13 187 - 13 188 - 13 189



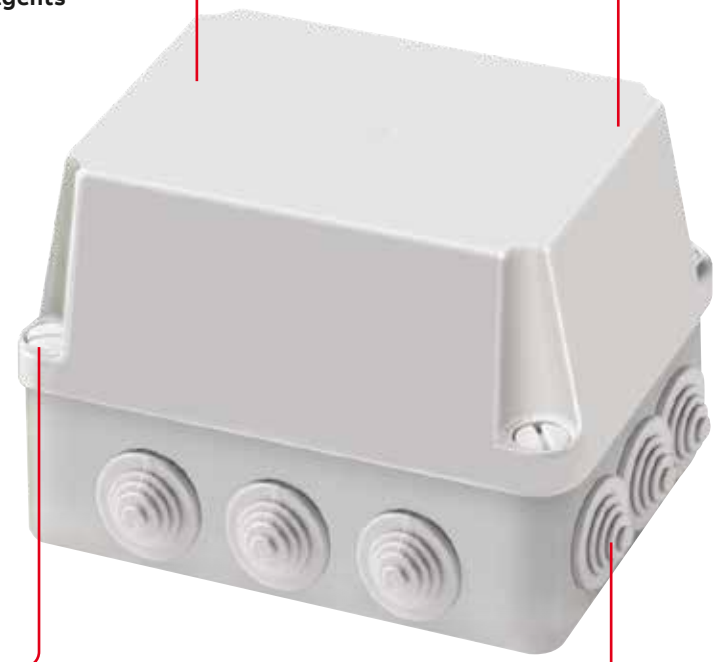
13 186



12 858

Description	Order details		Pack.
	Type	Order code	pc.
Accessories			
Spare lid for consumer units with emergency button	-	13 190	10/40
Bulb lamp for 12 V luminous button - incandescent	-	13 187	10/120
Glass-breaking hammer	-	13 186	10/300
Fixing brackets for IP65 insulated consumer units only	-	12 858	20/240

IP44, IP55 and IP65 Junction boxes
The details make the difference



High resistance to heat and chemical and atmospheric agents

Installation temperature from -25 °C to +60 °C

Three lid types available: press-on, with steel screws and with plastic screws with a ¼ turn closing

Boxes with protection degree IP55 and IP65 are composed of a patented lid produced in a single pressing phase together with its seal

IP44, IP55 and IP65 Junction boxes
The details make the difference



A wide range for all needs.
There are IP44 for press-on lid boxes with cable glands, IP55 for screw-on lid boxes with cable glands and IP65 for screw-on lid box with smooth sides.



Some versions of the IP44 and IP55 junction boxes are already equipped with cable glands.



Boxes with protection degree IP55 and IP65 are composed of a patented lid produced in a single pressing phase together with its seal.



Now new: All IP65 junction boxes (with smooth sides) are manufactured in halogen free thermoplastic material.



Wall-mounting is also possible.
All junction boxes measuring 160x135, 220x170 and 310x240 mm can be mounted on the wall with brackets (accessory; code 12858).



All IP44, IP55 and IP65 junction boxes are also available in thermoplastic material, self-extinguishing in compliance with UL 94 V2 Standard and resistant to abnormal heat and fire up to 960 °C GWT.

Enclosures

IP44, IP55 and IP65 Junction boxes

- IP44, IP55 and IP65 Junction boxes for swimming pool control equipment, washing car centers, garages, building services, automatic garden lighting and watering, traffic signs, photovoltaic installations.
- Protection degree: IP44 for press-on lid boxes with cable glands, IP55 for screw-on lid boxes with cable glands, IP65 for screw-on lid box with smooth sides
- Shock resistant: IK07 for IP44 boxes, IK08 for IP55 and IP65 boxes
- IP44 and IP55 boxes with press-on lids in thermoplastic material, self-extinguishing in compliance with UL 94 HB Standard and resistant to abnormal heat and fire up to 650°C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard
- IP65 boxes with screw-on lids in halogen free thermoplastic material, self-extinguishing in compliance with UL 94 HB Standard and resistant to abnormal heat and fire up to 650°C (glow wire flammability index) in compliance with IEC 60695- 2-11 Standard
- Installation temperature from -25°C to +60°C; Resistant to heat: ball thermopressure up to +85°C for IP44, IP55 and IP65 junction boxes
- Boxes with protection degree IP55 and IP65 are composed of a patented lid produced in a single pressing phase together with its seal
- All junction boxes made in compliance with IEC 60670-1 and IEC 60670-22 Standards
- IP44 and IP55 junction boxes in thermoplastic material obtained the IMQ mark of approval
- All the boxes are RoHS compliance

All IP44, IP55 and IP65 junction boxes are also available in thermoplastic material, self-extinguishing in compliance with UL 94 V2 Standard and resistant to abnormal heat and fire up to 960°C (glow wire flammability index) in compliance with IEC 60695-2-11 Standard.



IP44 boxes



IP44 boxes



IP55

Description	Dimensions HxWxD [mm]	Order code	Box/Pack No items
IP44 boxes - GWT 650°C With cable glands and press-on lid			
IP44-Snap-on cover - GWT 650°C	Ø 60 - H 35	00800	240/240
	Ø 80 - H 40	00802	144/144
	65x65x32	00808	168/168
	80x80x40	00810	100/100
IP55 waterproof boxes with plastic 1/4 turn screws - GWT 650°C With cable glands and low screw-on lid RAL 7035			
IP55-Cable glands-low lid-1/4TS GWT 650°C	100x100x50	1SL0816A00	1/54
	105x70x50	1SL0820A00	1/70
	100x100x80	1SL0821A00	1/40
	153x110x66	1SL0822A00	1/32
IP55-Cable glands-low lid-1/4TS GWT 650°C*	160x135x77	1SL0824A00	1/18
	220x170x80	1SL0826A00	1/12
	310x240x110	1SL0828A00	1/6

* Can be wall-mounted using wall brackets code 12858.

Enclosures

IP44, IP55 and IP65 Junction boxes



IP65



IP65



IP55



IP65



IP65

Description	Dimensions HxWxD [mm]	Order code	Box/Pack No items
IP65 waterproof boxes with plastic 1/4 turn screws - GWT 650°C halogen free With smooth sides and low screw-on lid RAL 7035			
IP65-Smooth-low lid-1/4TS GWT 650°C halogen free	100x100x50	1SL0846A00	1/60
	105x70x50	1SL0850A00	1/100
	100x100x80	1SL0851A00	1/40
	153x110x66	1SL0852A00	1/32
IP65-Smooth-low lid-1/4TS GWT 650°C halogen free*	160x137x77	1SL0854A00	1/24
	220x170x80	1SL0856A00	1/12
	310x240x110	1SL0858A00	1/6
With smooth sides and transparent low screw-on lid			
IP65-Smooth-low transparent lid-1/4TS GWT 650°C halogen free	153x110x66	1SL0872A00	1/34
IP65-Smooth-low transparent lid-1/4TS GWT 650°C halogen free*	160x135x77	1SL0874A00	1/24
	220x170x80	1SL0876A00	1/12
	310x240x110	1SL0878A00	1/6
IP55 waterproof boxes with steel screws - GWT 650°C With cable glands and high screw-on lid RAL 7035			
IP55- Cable glands-low lid - GWT 650°C	100x100x50	00816	1/54
	105x70x50	00820	1/70
	100x100x80	00821	1/40
	153x110x66	00822	1/32
IP65 waterproof boxes with steel screws - GWT 650°C halogen free With smooth sides and high screw-on lid RAL 7035			
IP65- Smooth W.-low lid - GWT 650°C halogen free	100x100x50	00846	1/60
	105x70x50	00850	1/100
	100x100x80	00851	1/40
	153x110x66	00852	1/34
With Smooth sides and transparent high screw-on lid			
IP65- Smooth W.-transparent. low lid-153X110X66 GWT 650°C halogen free	151x110x66	00872	1/34

* Can be wall-mounted using wall brackets code 12858.

Enclosures

IP44, IP55 and IP65 Junction boxes



IP55



IP65



IP65

Description	Dimensions HxWxD [mm]	Order code	Box/Pack No items
IP55 waterproof boxes with plastic 1/4 turn screws - GWT 650°C With Cable glands and high screw-on lid RAL 7035			
IP55-Cable glands-high lid -1/4TS GWT 650°C	160x135x150	1SL0830A00	1/16
	220x170x150	1SL0832A00	1/8
	310x240x160	1SL0834A00	1/4
IP65 waterproof boxes with plastic 1/4 turn screws - GWT 650°C halogen free With Smooth sides and high screw-on lid RAL 7035			
IP65-Smooth-high lid -1/4TS GWT 650°C halogen free	160x135x150	1SL0860A00	1/16
	220x170x150	1SL0862A00	1/8
	310x240x160	1SL0864A00	1/4
With Smooth sides and transparent high screw-on lid			
IP65-Smooth-high transparent lid -1/4TS GWT 650°C halogen free*	160x135x150	1SL0880A00	1/16
	220x170x150	1SL0882A00	1/8
	310x240x160	1SL0884A00	1/4

* Can be wall-mounted using wall brackets code 12858.

Enclosures

IP 44, IP 55 and IP 65 junction boxes in thermoplastic material



IP44



IP44



IP55



IP65

Description	Dimensions HxWxD [mm]	Order code	Box/Pack No items
IP 44 boxes - GWT 960 °C			
With cable glands and press-on lid	Ø 60 - H 35	1SL0900A00	240/240
	Ø 80 - H 40	1SL0901A00	144/144
	65x65x32	1SL0902A00	168/168
	80x80x40	1SL0903A00	100/100
IP 55 waterproof boxes with plastic 1/4 turn screws - GWT 960 °C			
With cable glands and low screw-on lid RAL 7035	100x100x50	1SL0916A00	1/54
	100x100x80	1SL0921A00	1/40
	153x110x66	1SL0922A00	1/32
	160x135x77	1SL0924A00*	1/18
	220x170x80	1SL0926A00*	1/12
	310x240x110	1SL0928A00*	1/6
IP 65 waterproof boxes with plastic 1/4 turn screws - GWT 960 °C			
With smooth sides and low screw-on lid RAL 7035	100x100x50	1SL0946A00	1/60
	100x100x80	1SL0951A00	1/40
	153x110x66	1SL0952A00	1/32
	160x137x77	1SL0954A00*	1/24
	220x170x80	1SL0956A00*	1/12
	310x240x110	1SL0958A00*	1/6

* Can be wall-mounted using wall brackets code 12 858.

Enclosures

IP 44, IP 55 and IP 65 junction boxes in thermoplastic material

IP55



IP65

Description	Dimensions HxWxD [mm]	Order code	Box/Pack No items
IP 65 waterproof boxes with plastic 1/4 turn screws - GWT 960 °C			
With smooth sides and high screw-on lid RAL 7035	160x135x150	1SL0960A00	1/16
	220x170x150	1SL0962A00	1/8
	310x240x160	1SL0964A00	1/4

Enclosures

Accessories for IP44, IP55 and IP65 Junction boxes

Technical characteristics of metric cable clamps:
Protection degree IP68
Material: polyamide 6.6, self-extinguishing material according to UL94V2 Standard and resistant to abnormal heat and to fire up to 750°C (glow wire test) according to IEC 60695-2-11 Standard
Operational temperature: from -20°C up to +120°C (short period of time)
Colour: RAL 7035 grey;
Neoprene seal;
Thread pitch: 1.5 mm; Thread angle: 60°
Tightening with a plate crown on the whole diameter of cable (excluded the possibility to damage the cable itself)
Possibility to recover the cable clamp without compromising its efficiency.

Technical characteristics nuts of with metric pitch collar
Material: polyamide 6.6, self-extinguishing material according to UL94 V2 Standard and resistant to abnormal heat and to fire up to 750°C (glow wire test) according to IEC 60695-2-11 Standard
Operational temperature: from -20°C up to +120°C (continuous) from -20°C up to +120°C (short period of time)
Colour: RAL 7035 grey
Thread pitch: 1.5 mm; Thread angle: 60°.



PG pitch



PG pitch



metric pitch



metric pitch

Cable glands and nuts - PG pitch

Pitch	Torque values	For cables diameter		Cable gland		Nut x cable gland	Cable clamp Box/pack	Nuts x cable Box/pack
Pg	N x m	Min (mm)	Max (mm)	Order code	Price	Order code	No Items	No Items
9	3.75	6.5	8.5	00931		00941	100/500	100/3000
11	3.75	8	10	00932		00942	100/500	100/3000
13.5	3.75	8	11	00933		00943	50/500	50/1500
16	5	11	14	00934		00944	50/300	50/1500
21	7.5	14.5	18	00935		00945	50/300	50/1500
29	7.5	19	26	00936		00946	25/150	50/600
36	7.5	30	34	00937		00947	25/75	25/300
42	7.5	30	38	00938		00948	15/60	25/300

In compliance with CEI EN 50262 Standard.

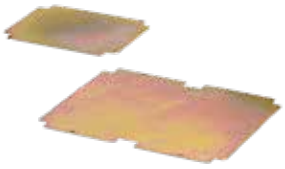
Cable glands and nuts - metric pitch

Pitch	Torque values	Cables diameter		Cable gland		Nut	Box/pack	Cable clamp Box/pack
Pg	N x m	Min (mm)	Max (mm)	Order code	Price	Order code	No Items	No Items
12 x 1.5	2.7	3.5	7	00951		00961	100/1200	100/3000
16 x 1.5	5	5.5	10	00952		00962	100/500	100/3000
20 x 1.5	7	7	13	00953		00963	100/500	50/1500
25 x 1.5	7.5	10	17	00954		00964	50/250	50/1500
32 x 1.5	8	12	21	00955		00965	25/150	50/500
40 x 1.5	8	19	28	00956 *		00966	25/75	25/300
50 x 1.5	10	27	35	00957 *		00967	15/60	25/300
63 x 1.5	10	34	45	00958 *		00968	10/40	20/100

In compliance with CEI EN 50262 Standard.
* Cable clamps and M40, M50 and M63 nuts are available on request.

Enclosures

Accessories for IP44, IP55 and IP65 Junction boxes



Metal base plates



Cable Clamps



Conduit clamps

Description	Order code	Box/Pack No items
Metal base plates		
Metal base plate for boxes with dimensions 160x135x77	900	1/10
Metal base plate for boxes with dimensions 220x170x80	902	1/5
Metal base plate for boxes with dimensions 310x240x110	904	1/5
All metal base plates listed above are equipped with fixing screws type 3.5x9.5.		
Cable Clamps - Protection Degree: IP55		
Cable clamp for conduit Ø 20 mm	908	100/1500
Cable clamp for conduit Ø 25 mm	910	100/1000
Cable clamp for conduit Ø 32 mm	912	50/400
Conduit clamps - Box Connector - Protection Degree: IP67		
Conduit clamp Ø 16 mm	00430	500/500
Conduit clamp Ø 20 mm	00431	300/300
Conduit clamp Ø 25 mm	00432	150/150
Conduit clamp Ø 32 mm	00433	100/100
Conduit clamp Ø 40 mm	00434	50/50
Conduit clamp Ø 50 mm	00435	50/50

Europa65 junction boxes

Technical details designed to facilitate installation



Bi-material flanges allow easy entry of cables or conduits

Convenient mounting brackets (optional) on the back side allow to fix the box to the wall in a quick and accurate way

Accessories include base plates or DIN rails to better integrate different types of devices

The front cover is provided with captive-type plastic clamping screws to ensure greater ease of use

Europa65 junction boxes

Technical details designed to facilitate installation



Rigid on one side and bi-material flange on the other to facilitate input of conduits and cables. The flanges are removeable and interchangeable.



The Polycarbonate GWT 960 ensure unique mechanical performances (Shock resistance IK10) and ensure high resistance against UV rays.



Perfectly symmetrical consumer units with the possibility of attaching the door hinge onto the front (by means of the special articulated screws supplied) on the right or left with 140° opening.



Different type of devices can be installed in an integrated and rational manner thanks to the many accessories such as base plates or a DIN rail.



The frame that can be fitted onto the consumer unit makes semi-flush mounting possible, guaranteeing an attractive finish.



The consumer unit can be fitted with Neutral (N) or Earth (E) terminals, by combining the copper terminal bars to the corresponding plastic terminal holders.

Europa65 junction boxes

Technical characteristics

- protection degree IP 65
- insulation class II ⧈
- available in RAL 7035 grey
- in polycarbonate material, self-extinguishing and resistant to abnormal heat and fire up to 960 °C (glow wire test) in compliance with IEC 60695-2-11 Standard
- installation temperature from -25 °C to +60 °C
- resistant to heat: ball thermopressure up to +125 °C in compliance with EN 60695-10-2 Standard
- rated insulation voltage: 1000 V AC; 1500 V DC
- shock resistance 20 Joules (IK level 10)
- perfectly symmetrical junction boxes with possibility of attaching the lid hinges, (using the special articulated screws supplied) on the right or left with 140° opening
- boxes code 12 808, 12 812, 12 814, 12 816 and 12 818 fitted with one rigid and one bi-material flange for facilitated input of conduits and cables
- junction boxes produced in compliance with CEI 23-49 (1996) + V1 + V2, CB certificate IEC 60670-24 Standards
- boxes are supplied complete with:
- 4 screw-cover caps to guarantee ⧈
- accessories for attaching the hinges on the front
- 1 certification plate
- instruction sheet
- use 3.5x9.5 self-tapping screws to fix the components on the back



Europa65 junction boxes
Order codes



12804



12808



12812



12814



12816



12818

Description	Dimensions WxHxD [mm]	Order code	Packaging
Europa65 junction boxes	140x220x140	12804	1/14
Europa65 junction boxes	205x220x140	12808	1/9
Europa65 junction boxes	275x220x140	12812	1/6
Europa65 junction boxes	275x370x140	12814	1/4
Europa65 junction boxes	275x570x140	12816	1/2
Europa65 junction boxes	380x570x140	12818	1/2

Europa65 junction boxes, accessories

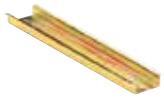
Order codes



Aluminium-plated metal base plates



Insulated base plates



DIN metal rails



Wall fixing brackets



Spare flanges



Universal cutter

Description	For boxes [type]	Order code	Packaging
Base plates			
In aluminium-plated metal	12 804	12842	10/120
	12 808	12844	10/10
	12 812	12845	10/10
	12 814	12846	5/5
	12 816	12847	5/5
	12 818	12848	5/5
In insulated material	12 804	12832	10/10
	12 808	12834	10/10
	12 812	12835	10/10
	12 814	12836	5/5
	12 816	12837	5/5
	12 818	12838	5/5
DIN metal rails			
Complete with fixing screws	12 804	12852	50/600
	12 808	12854	30/360
	12 812 - 12 814 12 816	12855	50/200
	12 818	12856	50/200
Wall fixing brackets			
In insulated material	-	12858	20/240
Spare flanges			
Bi-material flange - 8 modules per row	-	12600	30/120
Bi-material flange - 12 modules per row	-	12601	20/80
Bi-material flange - 18 modules per row	-	12602	20/80
Rigid flange - 8 modules per row	-	1SL0550A00	30/120
Rigid flange - 12 modules per row	-	1SL0551A00	20/80
Rigid flange - 18 modules per row	-	1SL0552A00	20/80
Universal cutter for drill			
To be use for side branch connections	-	12894	1/30

Europa65 junction boxes, accessories

Order codes



Terminal blocks

Terminal blocks

The complete terminal blocks are composed of a combination of terminal holders and terminal bars as shown in the description, with the terminal bars already mounted on terminal holders. The complete terminal blocks are standard configurations. For different requirements (customized terminal blocks), the terminal holders and the terminal bars must be purchased separately in the versions given in the table.

Description	For boxes [type]	Order code	Packaging
Composed of 12538x2 + 12531x2	12804	12490	10/60
Composed of 12539x2 + 12531x2	12808	12491	10/60
Composed of 12540x1 + 12531x1 + 12532x1	12812	12492	10/40
Composed of 12540x2 + 12533x2	12814	12494	10/40
Composed of 12540x2 + 12534x2	12816	12493	10/40
Composed of 12543x2 + 12535x2	12818	12497	10/40



Terminal holder

Terminal holder

The construction of the terminal block is completed by combining the terminal holders with the necessary terminal bars, taking care to separate the latter from one another.

Description	For boxes [type]	Order code	Packaging
Terminal holder	12 804	12538	12/360
Terminal holder	12 808	12539	12/360
Terminal holder	12 812 - 12 814 12 816	12540	12/144
Terminal holder	12 818	12543	12/108



Terminal bars

Terminal bars

The terminal bars can be installed on any type of terminal holder; they can be hooked by means of 2 snap-on clips through two additional holes at the ends of the bar itself.

Description No. of holes x Ø holes [mm] + No. of holes x Ø holes [mm]	Order code	Packaging
5x4,5	12531	20/240
10x4,5 + 3x5,6	12532	20/240
16x4,5 + 3x5,6	12533	20/240
15x4,5 + 6x5,6	12534	20/240
19x4,5 + 6x5,6	12535	20/240

Electrical installation solutions for buildings
NEMA Standard Products

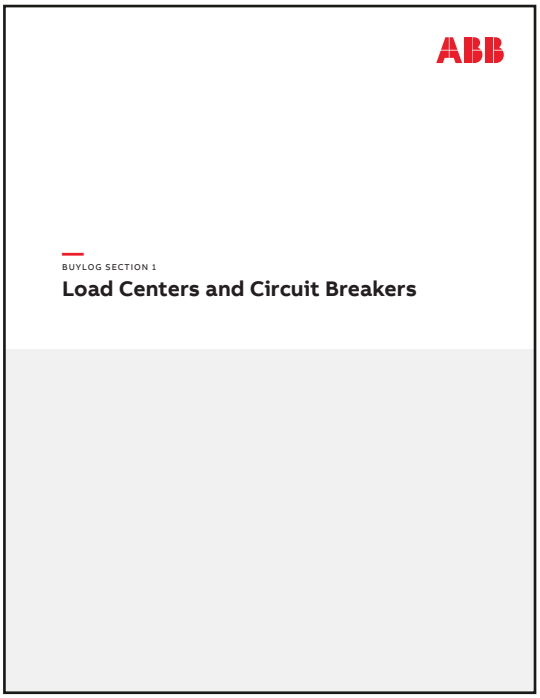
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We will need to add a note the pictures are typical and not exact breaker/receptacle configuration for each picture.

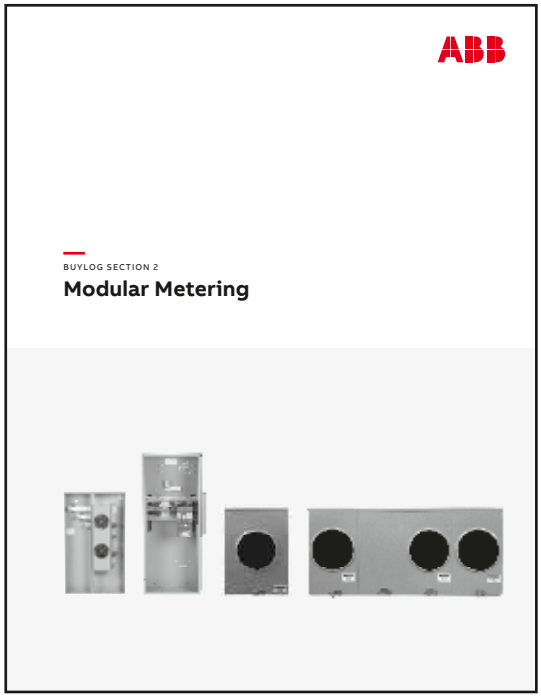
NEMA Flow Goods products

Thank you for your interest in NEMA Flow Goods products! Our offering consists of load centers, circuits breakers, surge protection devices and modular metering, which are sold primarily in the United States. In order to provide you with the most accurate and up to date information, we have provided the links below to our US catalog



US Catalog
Load Centers, Circuit Breakers and Surge Protection

Visit our website



US Catalog
Modular Metering

Visit our website

Residential Surge Protection

Externally Mounted Surge Devices and Internally Mounted Surge Devices

Introduction

ABB offers a series of residential surge protection devices that can be installed inside or outside of the home's electrical panel and offer superior protection for sensitive electronics.

All residential surge protection devices are UL listed, designed for 120/240V applications and meet the NEC 2020 requirements.



THOMESURGE
The THOMESURGE is a Type 1 SPD designed for service entrance or subpanel locations and provides surge protection for the entire home or office.
The THOMESURGE is a cost effective surge solution that can be installed with any manufacturer's panel.

Visit our website

https://new.abb.com/low-voltage/products/surge-protective-devices/thomesurge



OVRHR361202S
The OVRHR361202S is a Type 1 SPD designed for service entrance or subpanel locations and provides surge protection for the entire home or office. The OVRHR361202S is a cost effective surge solution that can be installed with any manufacturer's panel.

Visit our website

https://new.abb.com/low-voltage/products/surge-protective-devices/ovrhr361202s



THQLSURGE
The THQLSURGE is a Type 1 SPD designed for service entrance or subpanel locations and provides surge protection for the entire home or office.
The THQLSURGE conveniently connects inside the GE/ABB PowerMark Pro load center, providing surge protection for the entire panel and all attached loads.

Visit our website

https://new.abb.com/low-voltage/products/surge-protective-devices/thqlsurge

THOMESURGE(P)

Residential Surge Protection Device

Features:

- 36 kA per Phase
- UL 1449 Listed
- 10 kA I-nominal Rating
- 200 kA SCCR
- Meets NEC 2020 Requirements



Product Specifications

General Specifications	
Maximum Surge Current	36 kA per Phase
UL Type Designation	Type 1
UL 1449 I-nominal Rating	10 kA
UL 1449 Short Circuit Current Rating	65 kA

Design Specifications
Custom MOV design for High Energy Handling in Category C locations
Thermally Protected MOVs
External Parallel Connected for Mounting next to Electrical Gear
Reduced Mode of Protection (L1-N, L2-N)

Diagnostic & Status Monitoring Specifications
LED Protection Status Monitoring (Single LED Standard)

Enclosure
Polycarbonate 4.25” × 2.41” × 2.75”
Lid ultrasonically sealed
NEMA 4X
1/2 inch NPT Side Mount Nipple

Filtering
NO

Technical data	
Humidity Range	0 – 95% non-condensing
Operating Frequency	50 – 60 Hz
Operating Temperature	–35°C to +85°C
Typical Connection	18” #12 AWG (pre-wired pig tails)

UL 1449 Performance Data						
System Voltage	L-N	L-G	N-G	L-L	SCCR	MCOV
240/120V Split Ø	700	–	–	1200	200 kA	180

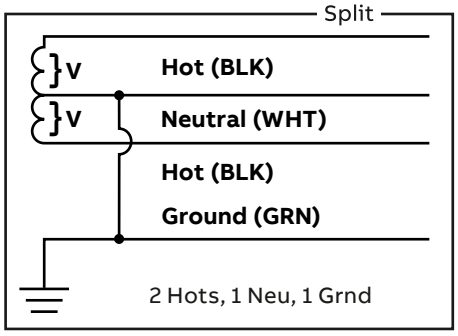
Standards Compliance & Certifications

UL 1449 5th Edition: 2021, cULus, (UL File: VZCA.E316468), ANSI/IEEE C62.41.1-2002, C62.41.2-2002, C62.45-2002, NEC Article 285

ISO 9001: 2014 Quality Management System, ISO 17025:2007 Laboratory Certification (UL DAP Program) Compliance with RoHS, REACH & California Prop 65.

100% Quality Tested prior to shipping

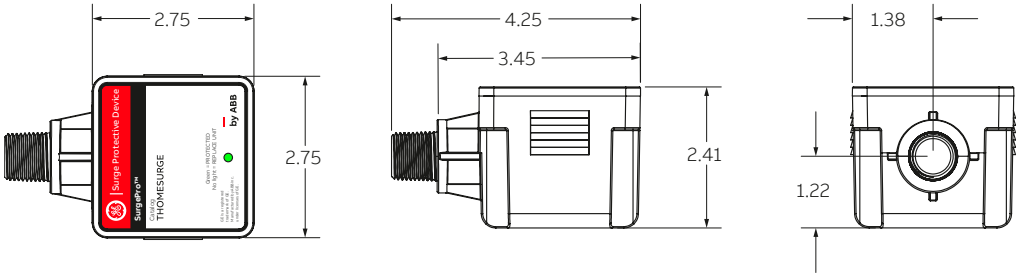
Wiring Configuration



Size and Mechanical Specifications

Dimensions	4.25” × 2.41” × 2.75”
Weight	0.46 lbs
Enclosure Type	Polycarbonate NEMA 4X
Installation Type	Indoor / Outdoor
Mounting Method	Flush / Flange / Through-hole

Product Diagram



SurgePro™

Surge Protective Device (SPD)

This surge protective device is designed to be used on electrical systems that are 120/240 or 120/208 V AC.

⚠ WARNING

- Risk of shock, disconnect power before installation.
- SPD should be installed by a qualified electrician in accordance with national and local electrical codes.
- Hazardous voltages exist within SPDs when energized — SPDs should never be installed or serviced when energized. During

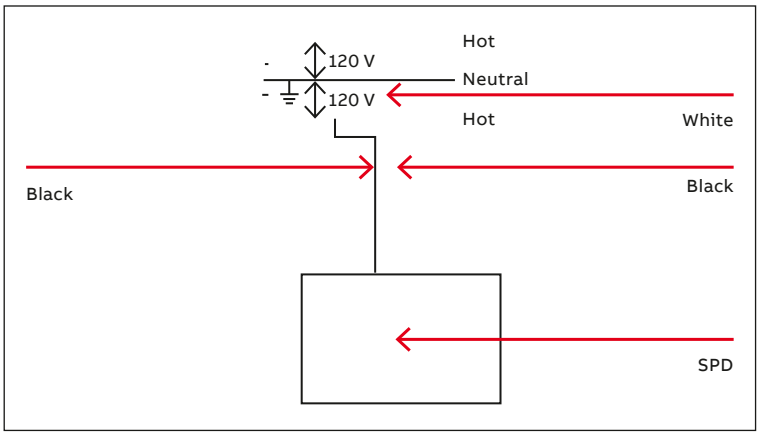
installation into an electrical system, the SPD must not be energized until the electrical system is completely installed, inspected and tested.

- Use appropriate safety precautions including personal protection equipment.
- Do not HIPOT the SPD unit or the electrical system in which the SPD unit is connected without disconnecting the SPD unit's conductors, including phase, neutral and ground.
- Cannot be used on ungrounded systems.
- The voltage rating of the SPD and system must be verified before energizing the SPD.
- Failure to follow these instructions can result in death, serious injury and/or equipment damage.
- This manual shall be read in its entirety prior to installing.

Pre-plan your installation

- Meet all national and local codes. (NEC Article 242 addresses SPDs.)
- Mount SPD as close to panel or equipment as possible to keep leads short. Ensure leads are as short and straight as possible, including neutral and ground.
- Consider a breaker position that is closest to the SPD and the panel's neutral and ground.
- Suggested breaker size is 20 A 2-pole breaker.
- Short circuit current rating (SCCR) 200 kA.
- Make sure system is grounded per NEC and clear of faults before energizing SPD.

Installation instructions



1. Use a voltmeter to check all voltages to ensure compatibility with SPD.
2. Remove power from panel. Confirm panel is de-energized by using a voltmeter.
3. Identify connection/breaker location and SPD location.
4. Remove an appropriately sized knockout from panel.
5. Mount SPD. Connect to equipment using an approved wiring method, including seals appropriate for the enclosure rating.
6. Connect conductors as appropriate — short and straight as possible.
7. Label or mark conductors as appropriate — energized — black: neutral — white.
8. Make sure system is bonded per NEC and is clear of hazards or faults before energizing (N-G bonding not per NEC is the #1 cause of SPD failures).
9. Apply power to the panel.
10. Verify that the status indication light on the face of the SPD is illuminated. If the light is not on, remove the power supplying the panel and review all the previous installation procedures.

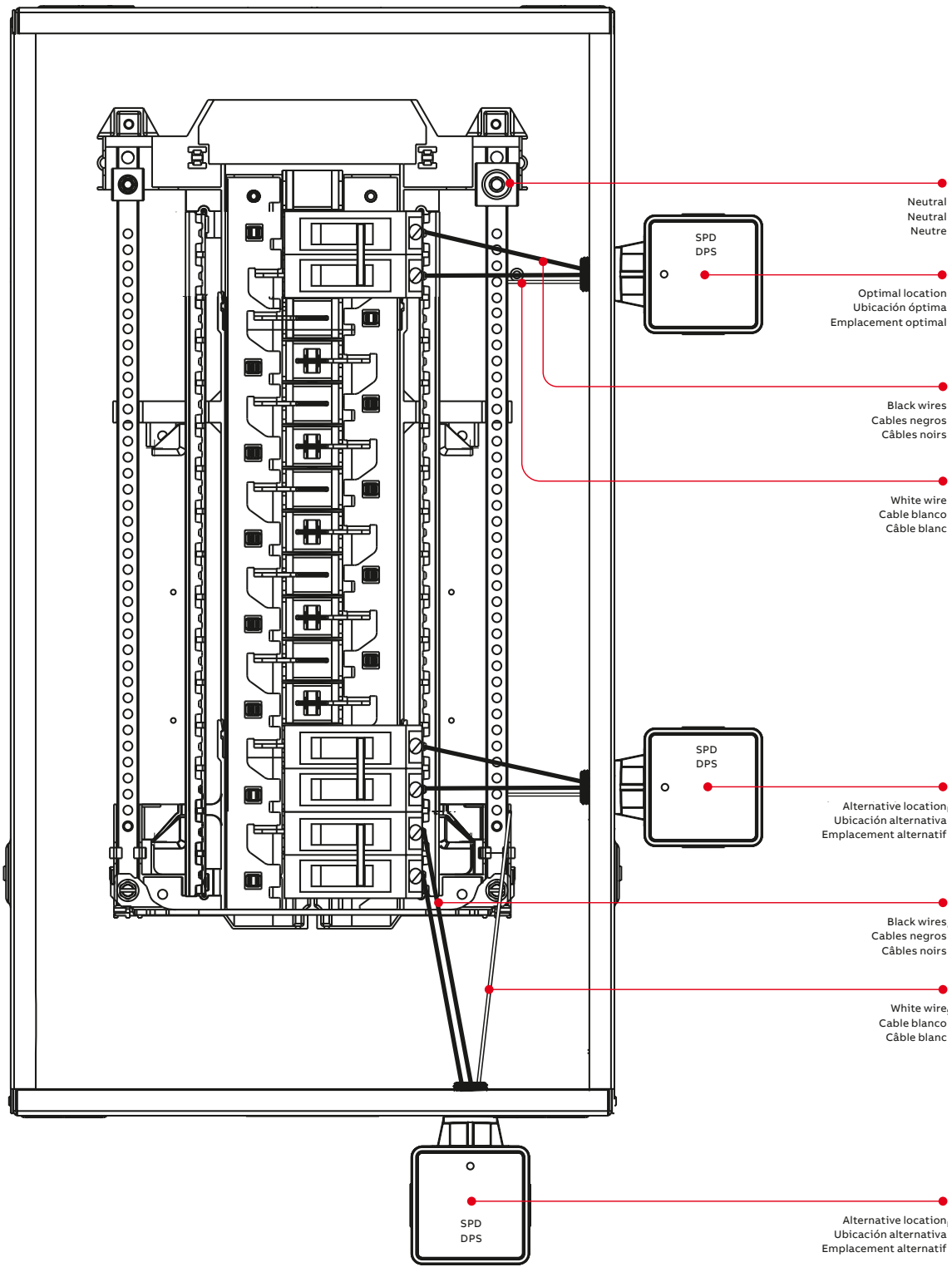
SurgePro™

Surge Protective Device (SPD)

The above picture is an example of a typical load center, the location of the neutral bar may vary.

The unit contains no serviceable parts.

These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation operation or maintenance. Should further information be desired, or should problems arise which are not covered sufficiently for the purchaser's purpose, the matter should be referred to ABB Inc.



OVRHR361202S

Residential Surge Protection Device

Features:

- 36 kA per Phase
- UL 1449 Listed
- 10 kA I-nominal Rating
- 200 kA SCCR
- Meets NEC 2020 Requirements



Product Specifications

General Specifications	
Maximum Surge Current	36 kA per Phase
UL Type Designation	Type 1
UL 1449 I-nominal Rating	10 kA
UL 1449 Short Circuit Current Rating	65 kA

Design Specifications
Custom MOV design for High Energy Handling in Category C locations
Thermally Protected MOVs
External Parallel Connected for Mounting next to Electrical Gear
Reduced Mode of Protection (L1-N, L2-N)

Diagnostic & Status Monitoring Specifications
LED Protection Status Monitoring (Single LED Standard)

Enclosure
Polycarbonate 4.25” × 2.41” × 2.75”
Lid ultrasonically sealed
NEMA 4X
1/2 inch NPT Side Mount Nipple

Filtering
NO

Technical data	
Humidity Range	0 – 95% non-condensing
Operating Frequency	50 – 60 Hz
Operating Temperature	–35°C to +85°C
Typical Connection	18” #12 AWG (pre-wired pig tails)

UL 1449 Performance Data						
System Voltage	L-N	L-G	N-G	L-L	SCCR	MCOV
240/120V Split Ø	700	–	–	1200	200 kA	180

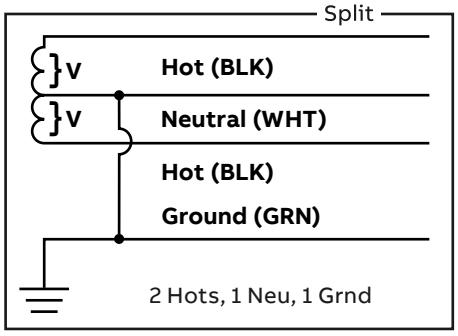
Standards Compliance & Certifications

UL 1449 5th Edition: 2021, cULus, (UL File: VZCA.E316468), ANSI/IEEE C62.41.1-2002, C62.41.2-2002, C62.45-2002, NEC Article 285

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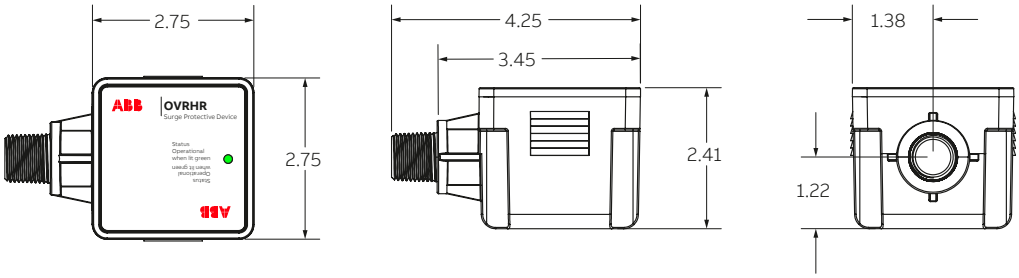
Wiring Configuration



Size and Mechanical Specifications

Dimensions	4.25” × 2.41” × 2.75”
Weight	0.46 lbs
Enclosure Type	Polycarbonate NEMA 4X
Installation Type	Indoor / Outdoor
Mounting Method	Flush / Flange / Through-hole

Product Diagram



OVRHR

Surge Protective Device (SPD)

This surge protective device is designed to be used on electrical systems that are 120/240 or 120/208 V AC.

⚠ WARNING

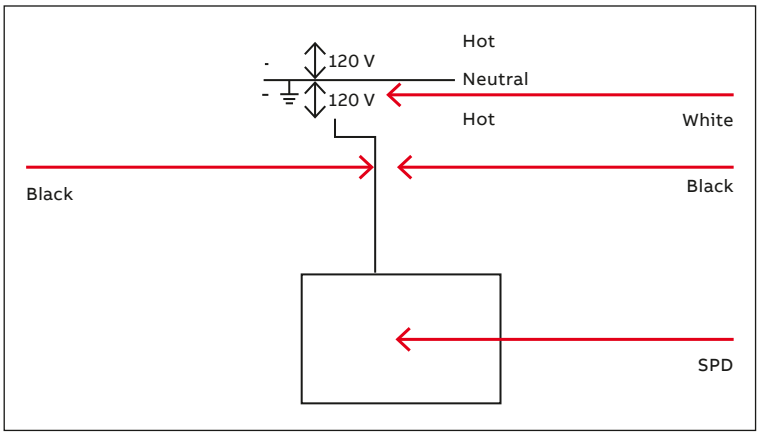
- Risk of shock, disconnect power before installation.
- SPD should be installed by a qualified electrician in accordance with national and local electrical codes.
- Hazardous voltages exist within SPDs when energized — SPDs should never be installed or serviced when energized. During installation into an electrical system, the SPD must not be energized until the electrical system is completely installed, inspected and tested.
- Use appropriate safety precautions including personal protection equipment.
- Do not HIPOT the SPD unit or the electrical system in which the SPD unit is connected without disconnecting the SPD unit's conductors, including phase, neutral and ground.
- Cannot be used on ungrounded systems.
- The voltage rating of the SPD and system must be verified before energizing the SPD.
- Failure to follow these instructions can result in death, serious injury and/or equipment damage.
- This manual shall be read in its entirety prior to installing.

Pre-plan your installation

- Meet all national and local codes. (NEC Article 242 addresses SPDs.)
- Mount SPD as close to panel or equipment as possible to keep leads short. Ensure leads are as short and straight as possible, including neutral and ground.
- Consider a breaker position that is closest to the SPD and the panel's neutral and ground.
- Suggested breaker size is 20 A 2-pole breaker.
- Short circuit current rating (SCCR) 200 kA.
- Make sure system is grounded per NEC and clear of faults before energizing SPD.

Installation instructions

1. Use a voltmeter to check all voltages to ensure compatibility with SPD.
2. Remove power from panel. Confirm panel is de-energized by using a voltmeter.
3. Identify connection/breaker location and SPD location.
4. Remove an appropriately sized knockout from panel.
5. Mount SPD. Connect to equipment using an approved wiring method, including seals appropriate for the enclosure rating.
6. Connect conductors as appropriate — short and straight as possible.



7. Label or mark conductors as appropriate — energized — black: neutral — white.
8. Make sure system is bonded per NEC and is clear of hazards or faults before energizing (N-G bonding not per NEC is the #1 cause of SPD failures).
9. Apply power to the panel.
10. Verify that the status indication light on the face of the SPD is illuminated. If the light is not on, remove the power supplying the panel and review all the previous installation procedures.

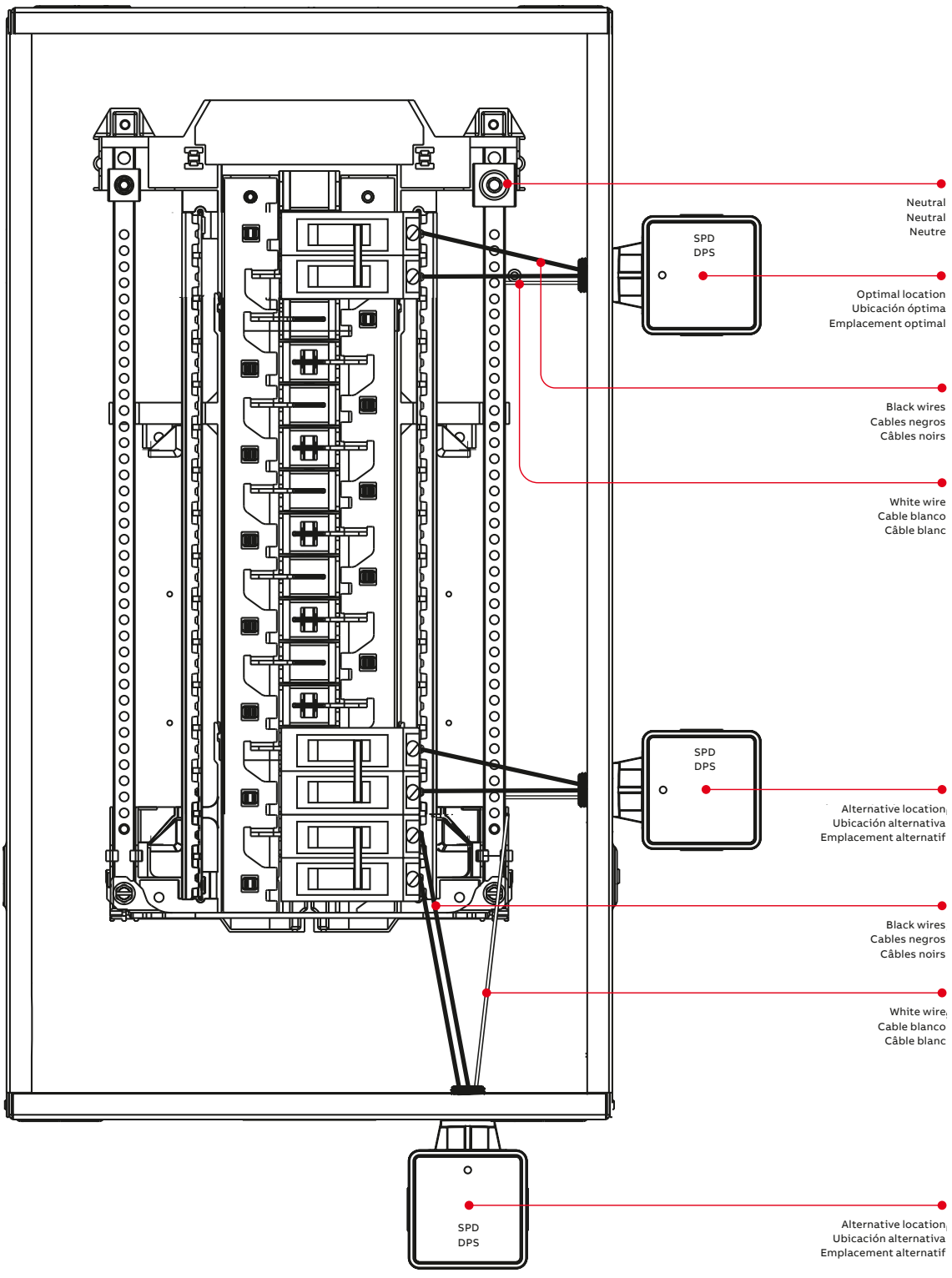
OVRHR

Surge Protective Device (SPD)

The above picture is an example of a typical load center, the location of the neutral bar may vary.

The unit contains no serviceable parts.

These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation operation or maintenance. Should further information be desired, or should problems arise which are not covered sufficiently for the purchaser's purpose, the matter should be referred to ABB Inc.



SurgePro™

AC power surge protective device



Benefits

- AC power surge protective device for the entire home or office – computers, TV, appliances and all other sensitive electronic equipment
- Mitigates against surge damage caused by lightning and utility switching events
- Installs in your GE PowerMark™ load center (the best location for protecting all AC circuits in your home) directly onto the bus
- Up to 50,000 amps of surge protective strength
- Meets newest UL 1449 4th edition surge protection requirements
- 3-year, $15,000 connected equipment warranty (from date of purchase) when installed according to NEC electrical and safety codes on cULus approved equipment
- Can be installed to meet NEC 2020 Art. 230.67 SPD requirements for dwelling units at or adjacent to service entrances.

Product features

- Single phase, three wire, 120/240 VAC, 50 kA rated
- UL 1449 4th edition listed (VZCA:E316636 and VZCA7:E316636) as a Type 1 SPD with a 100 kA SCCR rating
- Monolithic, high energy metal oxide varistors per mode with integral thermal and overcurrent protection
- Illuminated LED indicates proper function of protective elements

Technical data

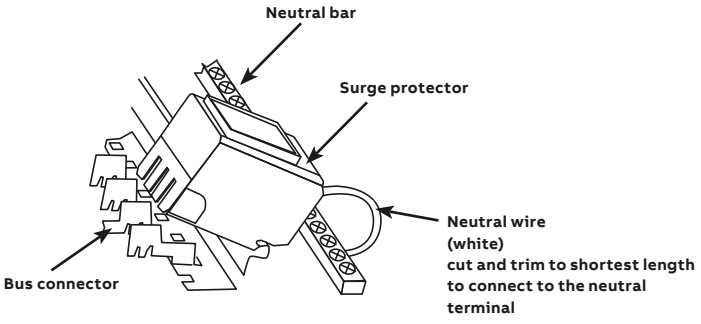
The THQLSURGE is designed for service entrance or subpanel locations. It provides small, easy to install surge protection for the entire home or office. The surge protective device consists of monolithic, high energy metal oxide varistors per mode with integral thermal and overcurrent protection. An illuminated LED indicates the proper function of the protective elements. The THQLSURGE conveniently connects inside the GE PowerMark load center, directly onto the bus, like a circuit breaker, providing surge protective elements for the entire panel and all attached loads.

Catalog number	Total surge current rating[1]	Per mode surge current rating[2]	System voltage 50/60 Hz	Transient energy rating, 10/1000 µS, total	Nominal discharge current In	Configuration	UL 1449 4th edition Voltage Protection Rating (VPR)			
							L-N	N-G	L-G	L-L
THQLSURGE	50 kA	25 kA	120/240 V	1520 J	10 kA	1 ph 3 wire	500 V	–	–	900 V

[1] Total surge rating is defined as the maximum surge current in the entire device for a single pulse 8/20µS
[2] Per mode defined as varistor surge current, single pulse 8/20µS

THQLSURGE

- Up to 225 amp load centers
- SCCR to 100 kA
- For use in GE load centers
- Can be used to meet NEC® 2020 Art. 230.67



Low voltage general purpose dry type transformers

Single phase and three phase; 600 volts and below



General and technical information

Small & large power transformers 600 volts and below

Introduction

ABB's comprehensive family of low voltage dry type transformers (LVDTT) provide long life, quiet, and reliable operation.

Type QL are ABB's large power transformers ranging from 15 kVA to 1000 kVA. The QL transformers come in standard NEMA 2 enclosures with rain shield kits available for NEMA 3R installations. Stainless steel enclosures are available as options as well. QL transformers are available in single or Three-phase configurations with either aluminum or copper windings. Type QL's are DOE 2016 compliant with models available for Canadian NRCan efficiency standards.

All of the LVDTTs through 1,000 kVA are UL listed under the requirements of Standard 5085 and/or 1561. In addition, each transformer meets the requirements of NEMA ST-20-2014.

General purpose transformers are rated 600 Volts and below for supplying appliances, lighting, and power loads from electrical distribution systems. Standard distribution voltages are 600, 480, and 240 Volts; standard load voltages are 480, 277, 240, 208, and 120 Volts. The transformer is used to obtain the load voltage from the distribution voltage while providing galvanic isolation. Since no vaults are required for installation, these transformers can be located right at the load to provide the correct voltage for the application. This eliminates the need for long, costly, low voltage feeders.

Construction – Type QL

Large power transformers

QL units come standard enclosed in a NEMA 2 drip-proof painted metal enclosure with natural draft ventilation. The core-and-coil assembly is mounted on rubber isolation pads to reduce noise generated by transformer vibration. Rain shield kits are available for conversion to a NEMA 3R enclosure suitable for outdoor service. Type QL transformers are UL Listed: XQNX:E79145; XQNX7:E79145; XQNX2:E79145 or XQNX8:E79145.

Coil construction, 3 phase general purpose, all 100% production tested				
Coil material	**kVA range**	**Coil temperature**	**Terminal connections**	**Windings[1]**
AL	15 to 150	150	Bolted	Continuous
	225 to 500	150	Welded	
	15 to 112.5	115	Bolted	
	150 to 500	115	Welded	
	15 to 112.5	80	Bolted	
	150 to 300	80	Welded	
CU	15 to 150	150	Bolted	Continuous
	225 to 500	150	Welded	
	15 to 150	115	Bolted	
	225 to 500	115	Welded	
	15 to 112.5	80	Bolted	
	150 to 300	80	Welded	

[1]Rarely a coil may have a welded internal connection. All transformers are 100% tested, assuring internal resistance and losses are within established standards, UL and NEMA requirements.

NEMA enclosure ratings

Type QL transformers are standard as NEMA 2 painted steel enclosures. NEMA 3R or NEMA 3R stainless steel (316) enclosures are available up to 150 kVA. NEMA 3R includes the rain shield kit (also 316 SS).

NEMA enclosure rating	Standard or optional	Installation location	Optional rain shield
NEMA 2 (ANSI 61 Painted)	Standard	Indoor	Not required
NEMA 2 (316 Stainless Steel)[2]	Optional	Indoor	Not required
NEMA 3R (ANSI 61 painted)	Optional	Indoor or Outdoor	Required & painted
NEMA 3R (316 Stainless Steel)[2]	Optional	Indoor or Outdoor	Required & 316 SS
NEMA 4X (316 Stainless Steel)[3]	Optional	Indoor or Outdoor	Required & 316 SS

[2] Up to 150 kVA

[3] Special order only, must be quoted and not available for all transformers

To specify a stainless-steel enclosure for an aluminum wound transformer, substitute the letter "S" in the fifth character of the ABB product number. For example, 9T10A1004 changes to 9T10S1004. For copper wound transformers substitute the letter "Z" in the fifth character of the ABB product number. For example, 9T10C1004 changes to 9T10Z1004. All QL model product numbers begin with 9T1, 9T6, 9T7 and 9T8.

Transformer taps

Transformer taps compensate for high or low line (supply) voltages. FCAN (full capacity above nominal) and FCBN (full capacity below nominal) are standard on Type QL transformers rated 15 kVA through 300 kVA and with a primary voltage of 240 V or higher. These have a total of six available voltage taps – four 2.5% taps (FCBN) below the nominal tap and two 2.5% taps above (FCAN) the nominal tap. This arrangement provides a 15% range of tap voltage adjustment. Transformers rated 500 kVA and higher have four available voltage taps – two 2.5% taps above (FCAN) the nominal tap and two 2.5% taps below (FCBN) the nominal tap.

Sound levels

All general purpose transformers are as quiet, or quieter than required by NEMA ST-20. Average sound levels are warranted not to exceed the values listed for each load rating shown in the below table. Sound characteristics vary between transformers of identical voltage and kVA rating. The range of variation may be 4 to 8 decibels.

These values apply only to specified test conditions because the characteristic of the installation can cause them to be higher under operating conditions. Where acoustical noise is deemed to be of concern, proper steps should be taken during installation to minimize audible noise transmission. Please refer to the installation manual for installation and operation recommended practices to minimize the audible sound of the transformer.

If lower sound levels are needed or desired, -3 dB and -5 dB options are available for most models.

	Average Sound Level, Decibels	
	Self cooled ventilated	
Equivalent Winding kVA Range	**A**	**B**
	K-factor = 1 K-factor = 4	**K-factor = 13 K-factor = 20**
9.01 to 15.00	45	45
15.01 to 30.00	45	45
30.01 to 50.00	45	48
50.01 to 75.00	50	53
75.01 to 112.50	50	53
112.51 to 150.00	50	53
150.01 to 225.00	55	58
225.01 to 300.00	55	58
300.01 to 500.00	60	63
500.01 to 700.00	62	65
700.01 to 1000.00	64	67

General and technical information

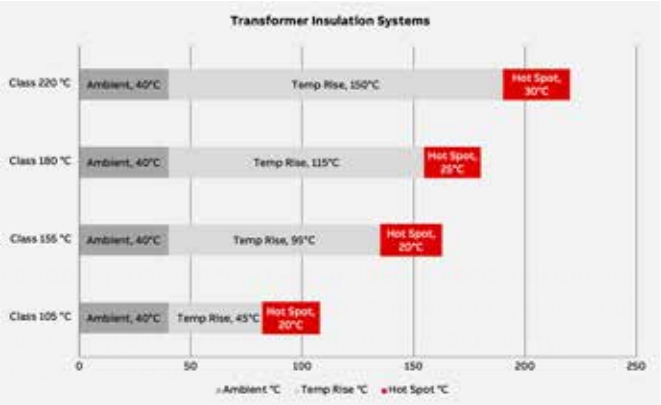
Small & large power transformers 600 volts and below

Insulation systems

Industry standards classify insulation systems in accordance with the rating system shown below.

Transformer insulation systems

Insulation Rating	Insulation Letter Class (NEMA/UL)	Ambient	+ Avg Coil Temp Rise	+ Hot Spot Temp Rise	= Max. Coil Temp
Class 105	A	40 °C	45 °C	20 °C	105 °C
Class 155	F	40 °C	95 °C	20 °C	155 °C
Class 180	H	40 °C	115 °C	25 °C	180 °C
Class 220	R	40 °C	150 °C	30 °C	220 °C



The design life of transformers that have different insulation systems is the same, since the allowable temperature rise of an insulation material system is predicated on a specified life for all insulation. The lower temperature systems are designed for the same life as higher temperature systems.

Key to the chart

- All assume 40 °C ambient temperature.
- Coil temperature rating (Temp Rise) is a typical specification when choosing a transformer
- The Hot Spot is the buffer added for internal hot spots
- For large power transformers, an 80 °C temp rise will cost more than a 150 °C, and will likely last longer
- Designing for other ambient temperatures like 50 °C for use in desert regions will increase the cost
- Lower coil temp rise = higher price
- Higher ambient temp requirement = higher price

Type QL insulation system

- Insulation Class: 220 °C, UL recognized insulation system with a maximum of 150, 115 or 80 °C rise above 40 °C ambient temperature
- Temperature rise ratings are in accordance with UL 1561
- All ABB Type QL dry type transformers use a 220 °C insulation rating class

Construction – Type IP, QB and QMS

Small Power Transformers - Types QB and QMS

QB and QMS small power transformers come standard in NEMA 3R nonventilated weatherproof enclosures. Type QB and QMS units feature encapsulated copper core and coils with integrated junction boxes for easy wiring.

Types QB and QMS are UL and cUL Listed XPTQ.E323774 and XPTQ7.E323774.

Small Power Transformers - Type IP

Type IP small power transformers are broken down into two categories - Machine Tool and Control Power. All are manufactured using copper windings and are UL and cUL Listed. Machine Tool transformers are used when higher inrush currents are required to drive more peak power demanding loads.

Type IP transformers are UL and cUL listed XPTQ.E323774 and XPTQ7.E323774.

Termination

Improved termination spacing and wiring compartment room gives greater flexibility in selecting various UL listed connectors for either copper or aluminum cable.

Catalog Number Selection Instructions

1. Establish phase and frequency
2. Determine the primary voltage—the voltage presently available
3. Determine the secondary voltage—the voltage needed at the load
4. Determine the kVA load, allowing room for expansion
5. Using the facts determined in the four steps, locate the transformer model in the listings on the following pages.



Small Power: Type QB, .050 kVA-3 kVA, Single-Phase



Small Power: Type QMS, 5 kVA-25 kVA, Single-Phase



Large Power: Type QL, 15 kVA-250 kVA, Single-Phase, DOE 2016 Efficiency, 15 kVA-500 kVA, Three-Phase, DOE 2016 Efficiency

General purpose
Applicable standards

ABB dry type transformers conform to the standards as shown above and are in compliance with these standards below:

- ANSI/NFPA 70: National Electrical Code
- ANSI/IEEE C57.96, Distribution Transformers, Guide for Loading Dry Type appendix to ANSI C57.12 standards
- IEEE C57.12.01: General Requirements for Dry Type Distribution Transformers
- IEEE C57.12.91, Test Code for Dry Type Distribution Transformers
- NEMA ST-20: Dry Type Transformers for General Applications
- UL 1561, Dry Type General Purpose Power Transformer G. Efficiency level DOE 2016 by 10 CFR PART 431
- UL Energy Verification – for US and Canada (ZXPC: EV519886) (ZZED: EV23760)

ABB's dry type transformers are manufactured in an ISO 9001 certified plant.

ISO 9001:2015
BUREAU VERITAS
Certification

General purpose

Single-phase DOE 2016 and NRCan efficiency
Common transformers

ABB's general purpose single-phase dry type transformers are step-down transformers designed for installations that require a 3-wire secondary voltage for 120/240 V systems. These units can also be used in 2-wire, 120x240 V applications. Their primary voltages are 240x480.

Optional wall mount brackets are available for most models. lug kit and copper ground bar are included.

Technical characteristics

- Connection: 3-wire or 2-wire secondaries
- Voltages: (P) 240x480 (S) 120/240
- Temperature rise: 150 °C; 220 °C insulation class; IEC 60085 Class R
- Frequency: 60 Hz
- Ambient temperature: 40 °C
- Standard single-phase tap arrangement
- Painted, ANSI #61 gray NEMA 2 enclosure
- Type QL
- Audible sound level: NEMA ST-20 Standard
- Seismic qualifications – CBC 2019 and IBC 2018; ASCE 7.05-2016
- UL 1561
- UL & cUL listed (XQNX, XQNX7:E79145)
- Energy efficiency: DOE 2016 (10 CFR Part 431)
- Energy efficiency: NRCan (CSA 802.2)
- UL energy verification – for US and Canada (ZXPC:EV519886) (ZZED:EV23760)



Aluminum windings 150 °C Rise NEMA 2

Primary Voltage	Secondary Voltage	kVA	Taps (FCBN,FCAN; %)	Wiring Diagram[1]	Product Net Weight (lbs.)	Frame Size	Catalog Number
240 x 480 Volts	120 / 240 Volts	15	(-4,+2: 2.5%)	6	320	YX171	9T33A2670
		25	(-4,+2: 2.5%)	6	320	YX171	9T33A2671
		37.5	(-4,+2: 2.5%)	6	460	YX172	9T33A2672
		50	(-4,+2: 2.5%)	6	490	XV173	9T33A2673
		75	(-4,+2: 2.5%)	25	600	YX174	9T33A2674
		100	(-4,+2: 2.5%)	26	950	YX175	9T33A2675

Copper windings 150 °C Rise NEMA 2

Primary Voltage	Secondary Voltage	kVA	Taps (FCBN,FCAN; %)	Wiring Diagram[1]	Product Net Weight (lbs.)	Frame Size	Catalog Number
240 x 480 Volts	120 / 240 Volts	15	(-4,+2: 2.5%)	6	350	YX171	9T33C2670
		25	(-4,+2: 2.5%)	6	350	YX171	9T33C2671
		37.5	(-4,+2: 2.5%)	6	510	YX172	9T33C2672
		50	(-4,+2: 2.5%)	6	500	XV173	9T33C2673
		75	(-4,+2: 2.5%)	25	750	YX174	9T33C2674

[1] See page 10-45 and 10-46 for wiring diagrams.

General purpose

Three-phase

DOE 2016 catalog number nomenclature

9T	1	0	A	100	1	G31

ABB Standard

1 = QL DOE 2016 Design

Transformer Type

0 = Standard, K1
1 = K13
2 = K20
4 = K4
7 = Guard II/Servicenter
8 = Spare Parts

Options

A = Aluminum Coil
B[1] = Aluminum C&C (no enclosure)
C = Copper Coil
S = AL Stainless Steel Enclosure
V[1] = Copper C&C (no enclosure)
Z = CU Stainless Steel Enclosure
Y = Accessories

[1]These options are UL recognized components.

kVA Rating

1 = 15 kVA
2 = 30 kVA
3 = 45 kVA
4 = 75 kVA
5 = 112.5 kVA
6 = 150 kVA
7 = 225 kVA
8 = 300 kVA
9 = 500 kVA

Voltage Series

See Voltage Chart below

Please Note: This catalog number nomenclature is for illustrative purposes only. Not all catalog number combinations are available for production. Please reference the ordering tables beginning on page 10-12 for Three-phase DOE 2016 Efficiency transformers currently available for ordering. For additional assistance, please contact Customer Service at 1-800-431-7867.

		Catalog No. Suffix Codes Core & Coil Temp Rise		
		150 °C	115 °C	80 °C
Core & Coil Characteristics	Temp Rise Rating Only	G01 or blank	G31	G61
	-3 dB noise reduction	G02	G32	G62
	Electrostatic Shield*	G03	G33	G63
	-3 dB noise reduction + Electrostatic Shield	G04	G34	G64
	-5 dB noise reduction	G05	G35	G65
	-5 dB noise reduction + Electrostatic Shield	G06	G36	G66

* An Electrostatic Shield (a Guard I transformer) is bonded to the ground terminal and is a copper barrier between the primary and secondary windings to reduce electrical noise. All K-factor transformers come standard with an Electrostatic Shield (K4, K13, K20).

3-Phase Common Voltages

Series	Primary Voltage	Secondary Voltage
100	480	208Y/120
101	480	220
102	480	220Y/127
103	480	208
104	480	230Y/133
105	480	240Y/139
106	480	380
107	480	380Y/219
108	480	400Y/231
109	480	415Y/240
110	480	480
111	480	575
112	480	600
113	480	440Y/254
114	480	600Y/346
115	480	440
116	480	230/115
117	480	480Y/277
118	480	240/120
119	480	240
121	480	220/110
123	480	400
124	480	460
125	480	420
126	480	230
127	480	575Y/332
129	480	460Y/266
131	208	240
132	208	240/120
133	208	480
134	208	480Y/277
135	208	380Y/219
136	208	230
137	208	575
138	208	460
139	208	400Y/231
140	208	208
141	208	230Y/133
142	208	380
143	208	220/110
144	208	220Y/127
145	208	208Y/120
146	208	400
147	208	315
148	208	600
149	208	460Y/266
150	208	220
151	208	230/115
152	208	415Y/240
153	240	480Y/277
154	240	480
155	240	400Y/231

3-Phase Common Voltages

Series	Primary Voltage	Secondary Voltage
157	240	575
158	240	460Y/266
159	240	240Y/139
160	240	600
161	240	208Y/120
162	240	380
163	240	440
164	240	240/120
165	240	380Y/219
166	220	380Y/219
167	220	400Y/231
168	220	240Y/139
169	220	220
170	220	208Y/120
171	220	480Y/277
172	220	440Y/254
173	220	480/240
174	220	480
175	220	415Y/240
176	380	220Y/127
177	380	480
178	380	220
179	380	208Y/120
180	380	415Y/240
181	380	240/120
184	380	480Y/277
185	380	380Y/219
186	380	230Y/133
187	380	240
188	440	220Y/127
189	440	480
190	440	208Y/120
191	440	380
192	440	380Y/219
193	440	400Y/231
194	440	575Y/332
195	440	240/120
196	440	480Y/277
197	440	240
198	230	460
199	230	400Y/231
200	230	400
201	230	480Y/277
202	230	208Y/120
203	230	480
204	400	230Y/133
205	400	380Y/219
206	400	480
207	400	220Y/127
209	400	400Y/231
210	400	208Y/120
211	400	208Y/120

3-Phase Common Voltages

Series	Primary Voltage	Secondary Voltage
212	400	480Y/277
213	415	208Y/120
214	415	460
215	415	220Y/127
216	416	208Y/120
217	416	480Y/277
218	460	208Y/120
219	460	220
221	460	400Y/231
222	460	220Y/127
223	460	230
224	460	575Y/332
225	460	230Y/133
226	460	460Y/266
227	550	208Y/120
228	550	480Y/277
229	575	208Y/120
230	575	480Y/277
231	575	240Y/139
232	575	460
233	575	480
234	575	230Y/133
235	575	230
236	600	240/120
237	600	480
238	600	480Y/277
239	600	240
240	600	208Y/120
241	600	230Y/133
242	600	240Y/139
243	600	208
244	600	600Y/346
245	690	400Y/231
246	690	208Y/120
247	277	415Y/240
248	315	208Y/120
249	320	480Y/277
250	420	480Y/277
251	490	480Y/277
252	500	480Y/277

General purpose

Three-phase DOE 2016 efficiency

Advantages

- Quiet performance
- No-weld design
- IEEE and NEMA factory testing assures quality
- Accessible mounting foot design speeds installation
- Lug kit and ground bar kit included up through 150 kVA
- ABB's exclusive wood crate packaging (up to 150 kVA) helps reduce shipping damage

Key Features

- Unique core and coil design makes QL transformers among the quietest available
- Core and coil assemblies are mounted on rubber isolation pads to reduce audible noise
- Single-piece front/back is easily removable for service
- Accessible mounting flanges with front/back slotted mounting holes make installation easier
- 100% factory tested for shorts and coil integrity, current and loss, voltage, impedance and noise.
- NEMA 2 drip-proof enclosure is standard. Paint color is ANSI #61 gray. Rain shield kits are available to convert standard NEMA 2 transformers to NEMA 3R for outdoor installations.
- NEMA 3R stainless steel enclosure is available up to 150 kVA. To specify a stainless steel enclosure, substitute the fifth character in the ABB catalog number per the following examples:
  - For Aluminum coil: 9T10A1004 changes to 9T10S1004
  - For Copper coil: 9T10C1004 changes to 9T10Z1004
- Seismic qualified to the requirements of ASCE 7-16, IEEE-693-2005 and IBC-2018/CBC-2019
- Copper or aluminum windings
- Copper ground strap
- Optional Individualized Test Reports available for IEEE performance and/or NEMA ST-20 Audible Sound Levels

Applications

- Commercial
- Industrial
- Motors
- Incandescent lighting
- Resistance heating
- Motor generators (without solid state drives)
- Galvanic isolation
- Power supply network conversion

QL Transformer Selection Guide

	Standard	Guard I™ Electrostatic Shield	Guard II™ (filtering & surge protection)	Guard III™ Harmonic Mitigating (HMT)	K -factor (K=4)	K -factor (K=13)	K -factor (K=20)	Drive Isolation	Servicenter™	TENV
Motors	•	•			•					
Incandescent Lighting	•	•			•					
Resistance Heating	•	•			•					
Motor Generators (without solid state drives)	•	•			•					
HID Lighting					•					
Induction Heaters					•					
Welders					•					
UPS with optional input filtering					•					
PLC & Solid state controls					•					
Multiple receptacle circuits in heath care facilities						•				
UPS without optional input filtering						•				
Production or assembly line equipment						•				
Schools & Classroom facilities						•				
Surge Supression			•							
Office Buildings		•	•	•		•				
SCR Variable Speed Drives							•			
Circuits with exclusive data processing equipment			•	•			•			
Critical Care facilities			•	•			•			
Hospital Operating Rooms			•	•			•			
X-ray equipment			•	•			•			
Computer Installations			•	•			•			
Programmable Controllers			•	•			•			
Instrumentation			•	•			•			
AC or DC Variable Speed Drives								•		
Rectifier outputs								•		
Temporary Power									•	
Airborne contamins or dust-laden environments (indoor and outdoor)										•

General purpose

Aluminum coil

Three-phase DOE 2016 efficiency



Large Power: Type QL, 15 kVA-250 kVA, Single-Phase, DOE 2016 Efficiency, 15 kVA-500 kVA, Three-Phase, DOE 2016 Efficiency

K = 1 150°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	231	UX71A	9T10A1001
		30	(+2, -4: 2.5%)	12	330	UX72A	9T10A1002
		45	(+2, -4: 2.5%)	12	444	UX73A	9T10A1003
		75	(+2, -4: 2.5%)	12	561	UY74A	9T10A1004
		112.5	(+2, -4: 2.5%)	12	680	DY75A	9T10A1005
		150	(+2, -4: 2.5%)	12	1030	DY76A	9T10A1006
		225	(+2, -4: 2.5%)	12	1450	DY77A	9T10A1007
		300	(+2, -4: 2.5%)	12	1670	DY78A	9T10A1008
		500	(+2, -2: 2.5%)	12	2900	DX79A	9T10A1009

K = 1 115°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	231	UX71A	9T10A1001G31
		30	(+2, -4: 2.5%)	12	330	UX72A	9T10A1002G31
		45	(+2, -4: 2.5%)	12	444	UX73A	9T10A1003G31
		75	(+2, -4: 2.5%)	12	603	UX74A	9T10A1004G31
		112.5	(+2, -4: 2.5%)	12	830	DX75A	9T10A1005G31
		150	(+2, -4: 2.5%)	12	1250	DX76A	9T10A1006G31
		225	(+2, -4: 2.5%)	12	1670	DX77A	9T10A1007G31
		300	(+2, -4: 2.5%)	12	1985	DX78A	9T10A1008G31
		500	(+2, -2: 2.5%)	12	2900	DX79A	9T10A1009G31

K = 1 80°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	330	UX72A	9T10A1001G61
		30	(+2, -4: 2.5%)	12	444	UX73A	9T10A1002G61
		45	(+2, -4: 2.5%)	12	561	UY74A	9T10A1003G61
		75	(+2, -4: 2.5%)	12	680	DY75A	9T10A1004G61
		112.5	(+2, -4: 2.5%)	12	1030	DY76A	9T10A1005G61
		150	(+2, -4: 2.5%)	12	1450	DY77A	9T10A1006G61
		225	(+2, -4: 2.5%)	12	1985	DX78A	9T10A1007G61
		300	(+2, -2: 2.5%)	12	2900	DX79A	9T10A1008G61
		500	(+2, -2: 2.5%)	12	-	DX67A	9T10A1009G61

K = 1 150°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
208 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	231	UX71A	9T10A1451
		30	(+2, -4: 2.5%)	12	330	UX72A	9T10A1452
		45	(+2, -4: 2.5%)	12	561	UY74A	9T10A1453
		75	(+2, -4: 2.5%)	12	680	DY75A	9T10A1454
		112.5	(+2, -4: 2.5%)	12	1030	DY76A	9T10A1455
		150	(+2, -4: 2.5%)	12	1250	DX76A	9T10A1456
		225	(+2, -4: 2.5%)	12	1670	DY78A	9T10A1457
		300	(+2, -2: 2.5%)	12	2900	DX79A	9T10A1458

[1] See page 10-45 and 10-46 for wiring diagrams.

General purpose

Aluminum coil

Three-phase DOE 2016 efficiency



Large Power: Type QL, 15 kVA-250 kVA, Single-Phase, DOE 2016 Efficiency, 15 kVA-500 kVA, Three-Phase, DOE 2016 Efficiency

K = 1 150°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
208 Volts Delta	480Y/277 Volts	15	(+2, -4: 2.5%)	12	231	UX71A	9T10A1341
		30	(+2, -4: 2.5%)	12	330	UX72A	9T10A1342
		45	(+2, -4: 2.5%)	12	561	UY74A	9T10A1343
		75	(+2, -4: 2.5%)	12	680	UY74A	9T10A1344
		112.5	(+2, -4: 2.5%)	12	1030	DY76A	9T10A1345
		150	(+2, -4: 2.5%)	12	1250	DX76A	9T10A1346
		225	(+2, -4: 2.5%)	12	1670	DY78A	9T10A1347
		300	(+2, -2: 2.5%)	12	2900	DX79A	9T10A1348

K = 1 150°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
240 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	231	UX71A	9T10A1611
		30	(+2, -4: 2.5%)	12	330	UX72A	9T10A1612
		45	(+2, -4: 2.5%)	12	444	UX73A	9T10A1613
		75	(+2, -4: 2.5%)	12	561	UY74A	9T10A1614
		112.5	(+2, -4: 2.5%)	12	680	DY75A	9T10A1615
		150	(+2, -4: 2.5%)	12	1030	DY76A	9T10A1616
		225	(+2, -4: 2.5%)	12	1450	DY77A	9T10A1617
		300	(+2, -4: 2.5%)	12	1670	DY78A	9T10A1618
		500	(+2, -2: 2.5%)	12	2900	DX79A	9T10A1619

K = 1 150°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
240 Volts Delta	480Y/277 Volts	15	(+2, -4: 2.5%)	12	231	UX71A	9T10A1531
		30	(+2, -4: 2.5%)	12	330	UX72A	9T10A1532
		45	(+2, -4: 2.5%)	12	444	UX73A	9T10A1533
		75	(+2, -4: 2.5%)	12	561	UY74A	9T10A1534
		112.5	(+2, -4: 2.5%)	12	680	DY75A	9T10A1535
		150	(+2, -4: 2.5%)	12	1030	DY76A	9T10A1536
		225	(+2, -4: 2.5%)	12	1450	DY77A	9T10A1537
		300	(+2, -4: 2.5%)	12	1670	DY78A	9T10A1538
		500	(+2, -2: 2.5%)	12	2900	DX79A	9T10A1539

K = 1 150°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	240/120 Volts	15	(+2, -4: 2.5%)	19	231	UX71A	9T10A1181
		30	(+2, -4: 2.5%)	19	330	UX72A	9T10A1182
		45	(+2, -4: 2.5%)	19	444	UX73A	9T10A1183
		75	(+2, -4: 2.5%)	19	561	UY74A	9T10A1184
		112.5	(+2, -4: 2.5%)	19	830	DX75A	9T10A1185
		150	(+2, -4: 2.5%)	19	1030	DY76A	9T10A1186
		225	(+2, -4: 2.5%)	19	1450	DY77A	9T10A1187
		300	(+2, -4: 2.5%)	19	1670	DY78A	9T10A1188
		500	(+2, -2: 2.5%)	19	2900	DX79A	9T10A1189

K = 1 150°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	480Y/277 Volts	15	(+2, -4: 2.5%)	12	231	UX71A	9T10A1171
		30	(+2, -4: 2.5%)	12	330	UX72A	9T10A1172
		45	(+2, -4: 2.5%)	12	444	UX73A	9T10A1173
		75	(+2, -4: 2.5%)	12	561	UY74A	9T10A1174
		112.5	(+2, -4: 2.5%)	12	680	DY75A	9T10A1175
		150	(+2, -4: 2.5%)	12	1030	DY76A	9T10A1176
		225	(+2, -4: 2.5%)	12	1450	DY77A	9T10A1177
		300	(+2, -4: 2.5%)	12	1670	DY78A	9T10A1178
		500	(+2, -2: 2.5%)	12	2900	DX79A	9T10A1179

[1] See page 10-45 and 10-46 for wiring diagrams.

General purpose

Copper coil

Three-phase DOE 2016 efficiency



Large Power: Type QL, 15 kVA-250 kVA, Single-Phase, DOE 2016 Efficiency, 15 kVA-500 kVA, Three-Phase, DOE 2016 Efficiency

K = 1 150°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	240 Volts	15	(+2, -4: 2.5%)	13	230	UX71C	9T10C1191
		30	(+2, -4: 2.5%)	13	353	UX72C	9T10C1192
		45	(+2, -4: 2.5%)	13	480	UX73C	9T10C1193
		75	(+2, -4: 2.5%)	13	661	UY74C	9T10C1194
		112.5	(+2, -4: 2.5%)	13	790	DY75C	9T10C1195
		150	(+2, -4: 2.5%)	13	1085	DY76C	9T10C1196
		225	(+2, -4: 2.5%)	13	1610	DY77C	9T10C1197
		300	(+2, -4: 2.5%)	13	1970	DY78C	9T10C1198

K = 1 150°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
600 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	230	UX71C	9T10C2401
		30	(+2, -4: 2.5%)	12	353	UX72C	9T10C2402
		45	(+2, -4: 2.5%)	12	480	UX73C	9T10C2403
		75	(+2, -4: 2.5%)	12	661	UY74C	9T10C2404
		112.5	(+2, -4: 2.5%)	12	790	DY75C	9T10C2405
		150	(+2, -4: 2.5%)	12	1085	DY76C	9T10C2406

K = 1 150°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	230	UX71C	9T10C1001
		30	(+2, -4: 2.5%)	12	353	UX72C	9T10C1002
		45	(+2, -4: 2.5%)	12	480	UX73C	9T10C1003
		75	(+2, -4: 2.5%)	12	661	UY74C	9T10C1004
		112.5	(+2, -4: 2.5%)	12	790	DY75C	9T10C1005
		150	(+2, -4: 2.5%)	12	1085	DY76C	9T10C1006
		225	(+2, -4: 2.5%)	12	1610	DY77C	9T10C1007
		300	(+2, -4: 2.5%)	12	1970	DY78C	9T10C1008
		500	(+2, -2: 2.5%)	12	3720	DX79C	9T10C1009

K = 1 115°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	230	UX71C	9T10C1001G31
		30	(+2, -4: 2.5%)	12	353	UX72C	9T10C1002G31
		45	(+2, -4: 2.5%)	12	480	UX73C	9T10C1003G31
		75	(+2, -4: 2.5%)	12	748	UX74C	9T10C1004G31
		112.5	(+2, -4: 2.5%)	12	900	DX75C	9T10C1005G31
		150	(+2, -4: 2.5%)	12	1240	DX76C	9T10C1006G31
		225	(+2, -4: 2.5%)	12	1847	DX77C	9T10C1007G31
		300	(+2, -4: 2.5%)	12	2150	DX78C	9T10C1008G31

K = 1 80°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	353	UX72C	9T10C1001G61
		30	(+2, -4: 2.5%)	12	480	UX73C	9T10C1002G61
		45	(+2, -4: 2.5%)	12	661	UY74C	9T10C1003G61
		75	(+2, -4: 2.5%)	12	790	DY75C	9T10C1004G61
		112.5	(+2, -4: 2.5%)	12	1085	DY76C	9T10C1005G61
		150	(+2, -4: 2.5%)	12	1610	DY77C	9T10C1006G61
		225	(+2, -4: 2.5%)	12	2150	DX78C	9T10C1007G61
		300	(+2, -2: 2.5%)	12	3720	DX79C	9T10C1008G61

[1] See page 10-45 and 10-46 for wiring diagrams.

K-factor

Aluminum coil
Three-phase DOE 2016 efficiency
Electrostatic shield



Type QL, UL K-factor Transformer

Product Description

K-factor is a standardized way to indicate the ability of a transformer to withstand harmonics. These units shall not exceed rated winding temperature rise at full load and rated K-factor. Neutrals and lugs are capable of handling 200% of rated secondary phase current.

Full-width copper electrostatic shielding is standard on all ABB K-factor rated transformers. Effective coupling capacitance is 30 pf. Common mode noise attenuation averages 120 dB, and transverse mode noise attenuation averages 30 dB.

Applications

For commercial applications with significant nonlinear electronic loading, use K=4 for systems with 50% connected nonlinear electronic loads; K=13 for systems with 100% connected nonlinear electronic loads.

Higher K-factor rated units are available for unique applications.

K=4 150°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	231	UX71A	9T14A1001G03
		30	(+2, -4: 2.5%)	12	444	UX73A	9T14A1002G03
		45	(+2, -4: 2.5%)	12	444	UX73A	9T14A1003G03
		75	(+2, -4: 2.5%)	12	680	DY75A	9T14A1004G03
		112.5	(+2, -4: 2.5%)	12	1030	DY76A	9T14A1005G03
		150	(+2, -4: 2.5%)	12	1250	DX76A	9T14A1006G03
		225	(+2, -4: 2.5%)	12	1670	DY78A	9T14A1007G03
		300	(+2, -2: 2.5%)	12	2900	DX79A	9T14A1008G03

K=4 115°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	231	UX71A	9T14A1001G33
		30	(+2, -4: 2.5%)	12	444	UX73A	9T14A1002G33
		45	(+2, -4: 2.5%)	12	561	UY74A	9T14A1003G33
		75	(+2, -4: 2.5%)	12	680	DY75A	9T14A1004G33
		112.5	(+2, -4: 2.5%)	12	1030	DY76A	9T14A1005G33
		150	(+2, -4: 2.5%)	12	1250	DX76A	9T14A1006G33
		225	(+2, -4: 2.5%)	12	1670	DY78A	9T14A1007G33
		300	(+2, -2: 2.5%)	12	2900	DX79A	9T14A1008G33

K=4 80°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	30	(+2, -4: 2.5%)	12	444	UX73A	9T14A1002G63
		45	(+2, -4: 2.5%)	12	561	UY74A	9T14A1003G63
		75	(+2, -4: 2.5%)	12	830	DX75A	9T14A1004G63
		112.5	(+2, -4: 2.5%)	12	1250	DX76A	9T14A1005G63

[1] See page 10-45 and 10-46 for wiring diagrams.

K-factor

Aluminum coil
Three-phase DOE 2016 efficiency
Electrostatic shield



Type QL, UL K-factor Transformer

K=13 150°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
		45	(+2, -4: 2.5%)	12	444	UX73A	9T11A1003G03
		75	(+2, -4: 2.5%)	12	603	UX74A	9T11A1004G03
480 Volts Delta	208Y/120 Volts	112.5	(+2, -4: 2.5%)	12	1030	DY76A	9T11A1005G03
		150	(+2, -4: 2.5%)	12	1250	DX76A	9T11A1006G03
		225	(+2, -4: 2.5%)	12	1670	DY78A	9T11A1007G03
		300	(+2, -2: 2.5%)	12	2900	DX79A	9T11A1008G03

K=13 115°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
		30	(+2, -4: 2.5%)	12	444	UX73A	9T11A1002G33
		75	(+2, -4: 2.5%)	12	680	DY75A	9T11A1004G33
480 Volts Delta	208Y/120 Volts	112.5	(+2, -4: 2.5%)	12	1250	DX76A	9T11A1005G33
		150	(+2, -4: 2.5%)	12	1450	DY77A	9T11A1006G33
		225	(+2, -4: 2.5%)	12	1670	DY78A	9T11A1007G33
		300	(+2, -2: 2.5%)	12	2900	DX79A	9T11A1008G33

K=13 80°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
		30	(+2, -4: 2.5%)	12	561	UY74A	9T11A1002G63
		45	(+2, -4: 2.5%)	12	561	UY74A	9T11A1003G63
480 Volts Delta	208Y/120 Volts	75	(+2, -4: 2.5%)	12	830	DX75A	9T11A1004G63
		112.5	(+2, -4: 2.5%)	12	1670	DX77A	9T11A1005G63
		150	(+2, -4: 2.5%)	12	1670	DY78A	9T11A1006G63
		225	(+2, -2: 2.5%)	12	2900	DX79A	9T11A1007G63

[1] See page 10-45 and 10-46 for wiring diagrams.

K-factor

Aluminum coil
Three-phase DOE 2016 efficiency
Electrostatic shield



Type QL, UL K-factor Transformer

K=20 150°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	45	(+2, -4: 2.5%)	12	561	UY74A	9T12A1003G03
		75	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1004G03
		112.5	(+2, -4: 2.5%)	12	1250	DX76A	9T12A1005G03
		150	(+2, -4: 2.5%)	12	1450	DY77A	9T12A1006G03
		225	(+2, -4: 2.5%)	12	1670	DY78A	9T12A1007G03

K=20 115°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	30	(+2, -4: 2.5%)	12	561	UY74A	9T12A1003G33
		75	(+2, -4: 2.5%)	12	680	DY75A	9T12A1004G33
		112.5	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1005G33
		150	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1006G33
		225	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1007G33
		300	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1008G33

K=20 80°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	30	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1002G63
		45	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1003G63
		75	(+2, -4: 2.5%)	12	830	DX75A	9T12A1004G63
		112.5	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1005G63
		150	(+2, -4: 2.5%)	12	1670	DX77A	9T12A1006G63
		225	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1007G63
		300	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1008G63

[1] See page 10-45 and 10-46 for wiring diagrams.
[2] Contact Customer Service for more information on these transformers.

K-factor

Copper coil
Three-phase DOE 2016 efficiency
Electrostatic shield



Type QL, UL K-factor Transformer

K=4 150°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	230	UX71C	9T14C1001G03
		30	(+2, -4: 2.5%)	12	353	UX72C	9T14C1002G03
		45	(+2, -4: 2.5%)	12	480	UX73C	9T14C1003G03
		75	(+2, -4: 2.5%)	12	661	UY74C	9T14C1004G03
		112.5	(+2, -4: 2.5%)	12	790	DY75C	9T14C1005G03
		150	(+2, -4: 2.5%)	12	1610	DY77C	9T14C1006G03
		225	(+2, -4: 2.5%)	12	1847	DX77C	9T14C1007G03
		300	(+2, -2: 2.5%)	12	3720	DX79C	9T14C1008G03

K=4 115°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	353	UX72C	9T14C1001G33
		30	(+2, -4: 2.5%)	12	480	UX73C	9T14C1002G33
		45	(+2, -4: 2.5%)	12	661	UY74C	9T14C1003G33
		75	(+2, -4: 2.5%)	12	748	UX74C	9T14C1004G33
		112.5	(+2, -4: 2.5%)	12	900	DX75C	9T14C1005G33
		150	(+2, -4: 2.5%)	12	1610	DY77C	9T14C1006G33
		225	(+2, -4: 2.5%)	12	2150	DX78C	9T14C1007G33
		300	(+2, -2: 2.5%)	12	3720	DX79C	9T14C1008G33
		500	(+2, -2: 2.5%)	12	[2]	[2]	9T14C1009G33

K=4 80°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	353	UX72C	9T14C1001G63
		30	(+2, -4: 2.5%)	12	480	UX73C	9T14C1002G63
		45	(+2, -4: 2.5%)	12	661	UY74C	9T14C1003G63
		75	(+2, -4: 2.5%)	12	790	DY75C	9T14C1004G63
		112.5	(+2, -4: 2.5%)	12	1085	DY76C	9T14C1005G63
		150	(+2, -4: 2.5%)	12	1610	DY77C	9T14C1006G63
		225	(+2, -4: 2.5%)	12	2150	DX78C	9T14C1007G63
		300	(+2, -2: 2.5%)	12	3720	DX79C	9T14C1008G63

[1] See page 10-45 and 10-46 for wiring diagrams.
[2] Contact Customer Service for more information on these transformers.

K-factor

Copper coil
Three-phase DOE 2016 efficiency
Electrostatic shield



Type QL, UL K-factor Transformer

K=13 150°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	230	UX71C	9T11C1001G03
		30	(+2, -4: 2.5%)	12	353	UX72C	9T11C1002G03
		45	(+2, -4: 2.5%)	12	480	UX73C	9T11C1003G03
		75	(+2, -4: 2.5%)	12	790	DY75C	9T11C1004G03
		112.5	(+2, -4: 2.5%)	12	790	DY75C	9T11C1005G03
		150	(+2, -4: 2.5%)	12	1610	DY77C	9T11C1006G03
		225	(+2, -4: 2.5%)	12	2150	DX78C	9T11C1007G03
		300	(+2, -2: 2.5%)	12	3720	DX79C	9T11C1008G03

K=13 115°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	353	UX72C	9T11C1001G33
		30	(+2, -4: 2.5%)	12	480	UX73C	9T11C1002G33
		45	(+2, -4: 2.5%)	12	661	UY74C	9T11C1003G33
		75	(+2, -4: 2.5%)	12	790	DY75C	9T11C1004G33
		112.5	(+2, -4: 2.5%)	12	1085	DY76C	9T11C1005G33
		150	(+2, -4: 2.5%)	12	1610	DY77C	9T11C1006G33
		225	(+2, -4: 2.5%)	12	3720	DX79C	9T11C1007G33
		300	(+2, -2: 2.5%)	12	3720	DX79C	9T11C1008G33
		500	(+2, -2: 2.5%)	12	[2]	[2]	9T11C1009G33

K=13 80°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	353	UX72C	9T11C1001G63
		30	(+2, -4: 2.5%)	12	480	UX73C	9T11C1002G63
		45	(+2, -4: 2.5%)	12	661	UY74C	9T11C1003G63
		75	(+2, -4: 2.5%)	12	790	DY75C	9T11C1004G63
		112.5	(+2, -4: 2.5%)	12	1085	DY76C	9T11C1005G63
		150	(+2, -4: 2.5%)	12	1610	DY77C	9T11C1006G63
		225	(+2, -2: 2.5%)	12	3720	DX79C	9T11C1007G63
		300	(+2, -4: 2.5%)	12	[2]	[2]	9T11C1008G63

[1] See page 10-45 and 10-46 for wiring diagrams.
[2] Contact Customer Service for more information on these transformers.

K-factor

Copper coil
Three-phase DOE 2016 efficiency
Electrostatic shield



Type QL, UL K-factor Transformer

K=20 150°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	230	UX71C	9T12C1001G03
		30	(+2, -4: 2.5%)	12	480	UX73C	9T12C1002G03
		45	(+2, -4: 2.5%)	12	661	UY74C	9T12C1003G03
		75	(+2, -4: 2.5%)	12	790	DY75C	9T12C1004G03
		112.5	(+2, -4: 2.5%)	12	1085	DY76C	9T12C1005G03
		150	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1006G03
		225	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1007G03
		300	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1008G03

K=20 115°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	353	UX72C	9T12C1001G33
		30	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1002G33
		45	(+2, -4: 2.5%)	12	661	UY74C	9T12C1003G33
		75	(+2, -4: 2.5%)	12	790	DY75C	9T12C1004G33
		112.5	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1005G33
		150	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1006G33
		225	(+2, -4: 2.5%)	12	2150	DX78C	9T12C1007G33
		300	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1008G33

K=20 80°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1001G63
		30	(+2, -4: 2.5%)	12	480	UX73C	9T12C1002G63
		45	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1003G63
		75	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1004G63
		112.5	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1005G63
		150	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1006G63

[1] See page 10-45 and 10-46 for wiring diagrams.
[2] Contact Customer Service for more information on these transformers.

K-factor low noise (-3 dB below NEMA ST-20 standard)

Aluminum coil

Three-phase DOE 2016 efficiency

Electrostatic shield



Type QL, UL K-factor Transformer

K=4 150°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	231	UX71A	9T14A1001G04
		30	(+2, -4: 2.5%)	12	444	UX73A	9T14A1002G04
		45	(+2, -4: 2.5%)	12	444	UX73A	9T14A1003G04
		75	(+2, -4: 2.5%)	12	603	UX74A	9T14A1004G04
		112.5	(+2, -4: 2.5%)	12	1030	DY76A	9T14A1005G04
		150	(+2, -4: 2.5%)	12	1250	DX76A	9T14A1006G04
		225	(+2, -4: 2.5%)	12	1670	DY78A	9T14A1007G04
		300	(+2, -2: 2.5%)	12	2900	DX79A	9T14A1008G04

K=4 115°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	231	UX71A	9T14A1001G34
		30	(+2, -4: 2.5%)	12	444	UX73A	9T14A1002G34
		45	(+2, -4: 2.5%)	12	561	UY74A	9T14A1003G34
		75	(+2, -4: 2.5%)	12	680	DY75A	9T14A1004G34
		112.5	(+2, -4: 2.5%)	12	1030	DY76A	9T14A1005G34
		150	(+2, -4: 2.5%)	12	1250	DX76A	9T14A1006G34
		225	(+2, -4: 2.5%)	12	1670	DY78A	9T14A1007G34
		300	(+2, -2: 2.5%)	12	2900	DX79A	9T14A1008G34

K=4 80°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	112.5	(+2, -4: 2.5%)	12	1250	DX76A	9T14A1005G64
		150	(+2, -4: 2.5%)	12	1670	DX77A	9T14A1006G64

K=13 150°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	231	UX71A	9T11A1001G04
		30	(+2, -4: 2.5%)	12	444	UX73A	9T11A1002G04
		45	(+2, -4: 2.5%)	12	444	UX73A	9T11A1003G04
		75	(+2, -4: 2.5%)	12	603	UX74A	9T11A1004G04
		112.5	(+2, -4: 2.5%)	12	1030	DY76A	9T11A1005G04
		150	(+2, -4: 2.5%)	12	1250	DX76A	9T11A1006G04
		225	(+2, -4: 2.5%)	12	1670	DY78A	9T11A1007G04
		300	(+2, -2: 2.5%)	12	2900	DX79A	9T11A1008G04

K=13 115°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	231	UX71A	9T11A1001G34
		30	(+2, -4: 2.5%)	12	444	UX73A	9T11A1002G34
		45	(+2, -4: 2.5%)	12	561	UY74A	9T11A1003G34
		75	(+2, -4: 2.5%)	12	680	DY75A	9T11A1004G34
		112.5	(+2, -4: 2.5%)	12	1250	DX76A	9T11A1005G34
		150	(+2, -4: 2.5%)	12	1450	DY77A	9T11A1006G34
		225	(+2, -4: 2.5%)	12	1670	DY78A	9T11A1007G34
		300	(+2, -2: 2.5%)	12	2900	DX79A	9T11A1008G34

K=13 80°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	30	(+2, -4: 2.5%)	12	561	UY74A	9T11A1002G64
		45	(+2, -4: 2.5%)	12	561	UY74A	9T11A1003G64
		75	(+2, -4: 2.5%)	12	680	DY75A	9T11A1004G64
		112.5	(+2, -4: 2.5%)	12	1670	DX77A	9T11A1005G64

[1] See page 10-45 and 10-46 for wiring diagrams.

K-factor low noise (-3 dB below NEMA ST-20 standard)

Aluminum coil

Three-phase DOE 2016 efficiency

Electrostatic shield



Type QL, UL K-factor Transformer

K=20 150°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1001G04
		30	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1002G04
		45	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1003G04
		75	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1004G04
		112.5	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1005G04
		150	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1006G04
		225	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1007G04

K=20 115°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1001G34
		30	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1002G34
		45	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1003G34
		75	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1004G34
		112.5	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1005G34

K=20 80°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1001G64
		30	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1002G64
		45	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1003G64
		75	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1004G64
		112.5	(+2, -4: 2.5%)	12	[2]	[2]	9T12A1005G64

[1] See page 10-45 and 10-46 for wiring diagrams.

[2] Contact Customer Service for more information on these transformers.

K-factor low noise (-3 dB below NEMA ST-20 standard)

Copper coil

Three-phase DOE 2016 efficiency

Electrostatic shield



Type QL, UL K-factor Transformer

K=4 150°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	230	UX71C	9T14C1001G04
		30	(+2, -4: 2.5%)	12	353	UX72C	9T14C1002G04
		45	(+2, -4: 2.5%)	12	480	UX73C	9T14C1003G04
		75	(+2, -4: 2.5%)	12	661	UY74C	9T14C1004G04
		112.5	(+2, -4: 2.5%)	12	790	DY75C	9T14C1005G04
		150	(+2, -4: 2.5%)	12	1610	DY77C	9T14C1006G04
		225	(+2, -4: 2.5%)	12	1970	DY78C	9T14C1007G04
		300	(+2, -2: 2.5%)	12	3720	DX79C	9T14C1008G04

K=4 115°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	353	UX72C	9T14C1001G34
		30	(+2, -4: 2.5%)	12	353	UX72C	9T14C1002G34
		45	(+2, -4: 2.5%)	12	661	UY74C	9T14C1003G34
		75	(+2, -4: 2.5%)	12	790	DY75C	9T14C1004G34
		112.5	(+2, -4: 2.5%)	12	900	DX75C	9T14C1005G34
		150	(+2, -4: 2.5%)	12	1610	DY77C	9T14C1006G34
		225	(+2, -4: 2.5%)	12	2150	DX78C	9T14C1007G34
		300	(+2, -2: 2.5%)	12	3720	DX79C	9T14C1008G34

K=4 80°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	353	UX72C	9T14C1001G64
		30	(+2, -4: 2.5%)	12	480	UX73C	9T14C1002G64
		45	(+2, -4: 2.5%)	12	661	UY74C	9T14C1003G64
		75	(+2, -4: 2.5%)	12	790	DY75C	9T14C1004G64
		112.5	(+2, -4: 2.5%)	12	1240	DX76C	9T14C1005G64

K=13 150°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	230	UX71C	9T11C1001G04
		30	(+2, -4: 2.5%)	12	353	UX72C	9T11C1002G04
		45	(+2, -4: 2.5%)	12	480	UX73C	9T11C1003G04
		75	(+2, -4: 2.5%)	12	790	DY75C	9T11C1004G04
		112.5	(+2, -4: 2.5%)	12	790	DY75C	9T11C1005G04
		150	(+2, -4: 2.5%)	12	1610	DY77C	9T11C1006G04
		225	(+2, -4: 2.5%)	12	1970	DY78C	9T11C1007G04
		300	(+2, -2: 2.5%)	12	3720	DX79C	9T11C1008G04

K=13 115°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	353	UX72C	9T11C1001G34
		30	(+2, -4: 2.5%)	12	480	UX73C	9T11C1002G34
		45	(+2, -4: 2.5%)	12	661	UY74C	9T11C1003G34
		75	(+2, -4: 2.5%)	12	790	DY75C	9T11C1004G34
		112.5	(+2, -4: 2.5%)	12	1085	DY76C	9T11C1005G34
		150	(+2, -4: 2.5%)	12	1610	DY77C	9T11C1006G34
		225	(+2, -2: 2.5%)	12	3720	DX79C	9T11C1007G34
		300	(+2, -2: 2.5%)	12	3720	DX79C	9T11C1008G34

K=13 80°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	353	UX72C	9T11C1001G64
		30	(+2, -4: 2.5%)	12	661	UY74C	9T11C1002G64
		45	(+2, -4: 2.5%)	12	661	UY74C	9T11C1003G64
		75	(+2, -4: 2.5%)	12	790	DY75C	9T11C1004G64
		112.5	(+2, -4: 2.5%)	12	1240	DX76C	9T11C1005G64
		150	(+2, -4: 2.5%)	12	1610	DY77C	9T11C1006G64
		225	(+2, -2: 2.5%)	12	3720	DX79C	9T11C1007G64

[1] See page 10-45 and 10-46 for wiring diagrams.

K-factor low noise (-3 dB below NEMA ST-20 standard)

Copper coil

Three-phase DOE 2016 efficiency

Electrostatic shield



Type QL, UL K-factor Transformer

K=20 150°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1001G04
		30	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1002G04
		45	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1003G04
		75	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1004G04
		112.5	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1005G04
		150	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1006G04

K=20 115°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1001G34
		30	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1002G34
		45	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1003G34
		75	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1004G34
		112.5	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1005G34
		150	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1006G34

K=20 80°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1001G64
		30	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1002G64
		45	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1003G64
		75	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1004G64
		112.5	(+2, -4: 2.5%)	12	[2]	[2]	9T12C1005G64

[1] See page 10-45 and 10-46 for wiring diagrams.

[2] Contact Customer Service for more information on these transformers.

Low noise (-3 dB below NEMA ST-20 standard)

Aluminum coil

Three-phase DOE 2016 efficiency



Large Power: Type QL, 15 kVA-250 kVA, Single-Phase, DOE 2016 Efficiency, 15 kVA-500 kVA, Three-Phase, DOE 2016 Efficiency

Product Description

These low noise transformers are designed to operate at reduced noise levels. The vibrations within the magnetic steel core have been greatly reduced, thus lowering the humming of the transformer 3 dB less (1/2 of the sound energy) than NEMA/ANSI standards. Available in Aluminum or Copper windings, with either a 150°C, 115°C or 80°C rise.

Applications

Type QL low noise transformers are ideal when quiet operation is required such as near offices, in school buildings, or hospitals. Although they are inherently quieter, installation can greatly influence their noise level and therefore care should be taken in following acoustical principles as well as proper installation procedures. Closets and corners should be avoided as they act as megaphones by seemingly increasing noise levels.

150°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	231	UX71A	9T10A1001G02
		30	(+2, -4: 2.5%)	12	330	UX72A	9T10A1002G02
		45	(+2, -4: 2.5%)	12	444	UX73A	9T10A1003G02
		75	(+2, -4: 2.5%)	12	561	UY74A	9T10A1004G02
		112.5	(+2, -4: 2.5%)	12	680	DY75A	9T10A1005G02
		150	(+2, -4: 2.5%)	12	1030	DY76A	9T10A1006G02
		225	(+2, -4: 2.5%)	12	1450	DY77A	9T10A1007G02
		300	(+2, -4: 2.5%)	12	1670	DY78A	9T10A1008G02
		500	(+2, -2: 2.5%)	12	2900	DX79A	9T10A1009G02

115°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	231	UX71A	9T10A1001G32
		30	(+2, -4: 2.5%)	12	330	UX72A	9T10A1002G32
		45	(+2, -4: 2.5%)	12	444	UX73A	9T10A1003G32
		75	(+2, -4: 2.5%)	12	603	UX74A	9T10A1004G32
		112.5	(+2, -4: 2.5%)	12	830	DX75A	9T10A1005G32
		150	(+2, -4: 2.5%)	12	1250	DX76A	9T10A1006G32
		225	(+2, -4: 2.5%)	12	1670	DX77A	9T10A1007G32
		300	(+2, -4: 2.5%)	12	1985	DX78A	9T10A1008G32
		500	(+2, -2: 2.5%)	12	2900	DX79A	9T10A1009G32

80°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	330	UX72A	9T10A1001G62
		30	(+2, -4: 2.5%)	12	444	UX73A	9T10A1002G62
		45	(+2, -4: 2.5%)	12	561	UY74A	9T10A1003G62
		75	(+2, -4: 2.5%)	12	680	DY75A	9T10A1004G62
		112.5	(+2, -4: 2.5%)	12	1030	DY76A	9T10A1005G62
		150	(+2, -4: 2.5%)	12	1450	DY77A	9T10A1006G62
		225	(+2, -4: 2.5%)	12	1985	DX78A	9T10A1007G62
		300	(+2, -2: 2.5%)	12	2900	DX79A	9T10A1008G62

[1] See page 10-45 and 10-46 for wiring diagrams.

Low noise (-3 dB below NEMA ST-20 standard)

Copper coil

Three-phase DOE 2016 efficiency



Large Power: Type QL, 15 kVA-250 kVA, Single-Phase, DOE 2016 Efficiency, 15 kVA-500 kVA, Three-Phase, DOE 2016 Efficiency

150°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	230	UX71C	9T10C1001G02
		30	(+2, -4: 2.5%)	12	353	UX72C	9T10C1002G02
		45	(+2, -4: 2.5%)	12	480	UX73C	9T10C1003G02
		75	(+2, -4: 2.5%)	12	661	UY74C	9T10C1004G02
		112.5	(+2, -4: 2.5%)	12	790	DY75C	9T10C1005G02
		150	(+2, -4: 2.5%)	12	1085	DY76C	9T10C1006G02
		225	(+2, -4: 2.5%)	12	1610	DY77C	9T10C1007G02
		300	(+2, -4: 2.5%)	12	1970	DY78C	9T10C1008G02
		500	(+2, -2: 2.5%)	12	3720	DX79C	9T10C1009G02

115°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	230	UX71C	9T10C1001G32
		30	(+2, -4: 2.5%)	12	353	UX72C	9T10C1002G32
		45	(+2, -4: 2.5%)	12	480	UX73C	9T10C1003G32
		75	(+2, -4: 2.5%)	12	748	UX74C	9T10C1004G32
		112.5	(+2, -4: 2.5%)	12	900	DX75C	9T10C1005G32
		150	(+2, -4: 2.5%)	12	1240	DX76C	9T10C1006G32
		225	(+2, -4: 2.5%)	12	1847	DX77C	9T10C1007G32
		300	(+2, -4: 2.5%)	12	2150	DX78C	9T10C1008G32
		500	(+2, -2: 2.5%)	12	3720	DX79C	9T10C1009G32

80°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	353	UX72C	9T10C1001G62
		30	(+2, -4: 2.5%)	12	480	UX73C	9T10C1002G62
		45	(+2, -4: 2.5%)	12	661	UY74C	9T10C1003G62
		75	(+2, -4: 2.5%)	12	790	DY75C	9T10C1004G62
		112.5	(+2, -4: 2.5%)	12	1085	DY76C	9T10C1005G62
		150	(+2, -4: 2.5%)	12	1610	DY77C	9T10C1006G62
		225	(+2, -4: 2.5%)	12	2150	DX78C	9T10C1007G62
		300	(+2, -2: 2.5%)	12	3720	DX79C	9T10C1008G62

[1] See page 10-45 and 10-46 for wiring diagrams.

Noise isolation — Guard I™

Aluminum coil
Three-phase DOE 2016 efficiency
Electrostatic shield



Large Power: Type QL, 15 kVA-250 kVA, Single-Phase, DOE 2016 Efficiency, 15 kVA-500 kVA, Three-Phase, DOE 2016 Efficiency

Guard I™ Noise Isolation Transformers provide common mode noise signal between neutral and ground and transverse mode noise protection. Common mode noise is caused by electromagnetic interference, radio interference and ground loops.

Key features

- 120 db common mode noise protection
- 30 db transverse mode noise protection
- NEMA 1 and/or 2 drip-proof enclosure
- Rain shield available for field conversion to NEMA 3R
- NEMA 3R stainless steel (Type 316) available through 150 kVA

150°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	231	UX71A	9T10A1001G03
		30	(+2, -4: 2.5%)	12	330	UX72A	9T10A1002G03
		45	(+2, -4: 2.5%)	12	444	UX73A	9T10A1003G03
		75	(+2, -4: 2.5%)	12	561	UY74A	9T10A1004G03
		112.5	(+2, -4: 2.5%)	12	680	DY75A	9T10A1005G03
		150	(+2, -4: 2.5%)	12	1030	DY76A	9T10A1006G03
		225	(+2, -4: 2.5%)	12	1450	DY77A	9T10A1007G03
		300	(+2, -4: 2.5%)	12	1670	DY78A	9T10A1008G03
		500	(+2, -2: 2.5%)	12	2900	DX79A	9T10A1009G03
		750	(+2, -2: 2.5%)	12	[2]	DX67A	9T10A1302G03

115°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	231	UX71A	9T10A1001G33
		30	(+2, -4: 2.5%)	12	330	UX72A	9T10A1002G33
		45	(+2, -4: 2.5%)	12	444	UX73A	9T10A1003G33
		75	(+2, -4: 2.5%)	12	603	UX74A	9T10A1004G33
		112.5	(+2, -4: 2.5%)	12	830	DX75A	9T10A1005G33
		150	(+2, -4: 2.5%)	12	1250	DX76A	9T10A1006G33
		225	(+2, -4: 2.5%)	12	1670	DX77A	9T10A1007G33
		300	(+2, -4: 2.5%)	12	1985	DX78A	9T10A1008G33
		500	(+2, -2: 2.5%)	12	2900	DX79A	9T10A1009G33
		750	(+2, -2: 2.5%)	12	[2]	DX67A	9T10A1302G33

80°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	330	UX72A	9T10A1001G63
		30	(+2, -4: 2.5%)	12	444	UX73A	9T10A1002G63
		45	(+2, -4: 2.5%)	12	561	UY74A	9T10A1003G63
		75	(+2, -4: 2.5%)	12	680	DY75A	9T10A1004G63
		112.5	(+2, -4: 2.5%)	12	1030	DY76A	9T10A1005G63
		150	(+2, -4: 2.5%)	12	1450	DY77A	9T10A1006G63
		225	(+2, -4: 2.5%)	12	1985	DX78A	9T10A1007G63
		300	(+2, -2: 2.5%)	12	2900	DX79A	9T10A1008G63

[1] See page 10-45 and 10-46 for wiring diagrams.
[2] Contact Customer Service for more information on these transformers.

Noise isolation — Guard I™

Copper coil

Three-phase DOE 2016 efficiency

Electrostatic shield



Large Power: Type QL, 15 kVA-250 kVA, Single-Phase, DOE 2016 Efficiency, 15 kVA-500 kVA, Three-Phase, DOE 2016 Efficiency

150°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	230	UX71C	9T10C1001G03
		30	(+2, -4: 2.5%)	12	353	UX72C	9T10C1002G03
		45	(+2, -4: 2.5%)	12	480	UX73C	9T10C1003G03
		75	(+2, -4: 2.5%)	12	661	UY74C	9T10C1004G03
		112.5	(+2, -4: 2.5%)	12	790	DY75C	9T10C1005G03
		150	(+2, -4: 2.5%)	12	1085	DY76C	9T10C1006G03
		225	(+2, -4: 2.5%)	12	1610	DY77C	9T10C1007G03
		300	(+2, -4: 2.5%)	12	1970	DY78C	9T10C1008G03
		500	(+2, -2: 2.5%)	12	3720	DX79C	9T10C1009G03

115°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	230	UX71C	9T10C1001G33
		30	(+2, -4: 2.5%)	12	353	UX72C	9T10C1002G33
		45	(+2, -4: 2.5%)	12	480	UX73C	9T10C1003G33
		75	(+2, -4: 2.5%)	12	748	UX74C	9T10C1004G33
		112.5	(+2, -4: 2.5%)	12	900	DX75C	9T10C1005G33
		150	(+2, -4: 2.5%)	12	1240	DX76C	9T10C1006G33
		225	(+2, -4: 2.5%)	12	1847	DX77C	9T10C1007G33
		300	(+2, -4: 2.5%)	12	2150	DX78C	9T10C1008G33
		500	(+2, -2: 2.5%)	12	3720	DX79C	9T10C1009G33

80°C Rise NEMA 2

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	353	UX72C	9T10C1001G63
		30	(+2, -4: 2.5%)	12	480	UX73C	9T10C1002G63
		45	(+2, -4: 2.5%)	12	661	UY74C	9T10C1003G63
		75	(+2, -4: 2.5%)	12	790	DY75C	9T10C1004G63
		112.5	(+2, -4: 2.5%)	12	1085	DY76C	9T10C1005G63
		150	(+2, -4: 2.5%)	12	1610	DY77C	9T10C1006G63
		225	(+2, -4: 2.5%)	12	2150	DX78C	9T10C1007G63
		300	(+2, -2: 2.5%)	12	3720	DX79C	9T10C1008G63

[1] See page 10-45 and 10-46 for wiring diagrams.

Noise isolation — Guard II™

Aluminum coil
Three-phase DOE 2016 efficiency
Electrostatic shield



Guard II™ Transformer, (front panel removed)

Guard II™ noise isolation transformers provide common mode noise attenuation plus an enhanced level of transverse mode noise attenuation for increased protection of sensitive electronic equipment.

Key Features

- Grounded copper electrostatic shield between primary and secondary windings
- Noise suppressors and spike/surge suppressors
- 120dB common mode noise rejection
- 60dB transverse mode noise rejection
- Compliance with ANSI and NEMA standards
- Sound levels below NEMA ST-20 limits
- UL Listed
- NEMA 2 enclosure

150°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	260	XV371	9T17A1001G03
		30	(+2, -4: 2.5%)	12	370	XV372	9T17A1002G03
		45	(+2, -4: 2.5%)	12	460	XV373	9T17A1003G03
		75	(+2, -4: 2.5%)	12	680	XV374	9T17A1004G03
		112.5	(+2, -4: 2.5%)	12	830	XV375	9T17A1005G03

115°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	260	XV371	9T17A1001G33
		30	(+2, -4: 2.5%)	12	370	XV372	9T17A1002G33
		45	(+2, -4: 2.5%)	12	460	XV373	9T17A1003G33

80°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	45	(+2, -4: 2.5%)	12	680	XV374	9T17A1003G63
		75	(+2, -4: 2.5%)	12	830	XV375	9T17A1004G63

150°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
208 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	260	XV371	9T17A1451G03
		30	(+2, -4: 2.5%)	12	370	XV372	9T17A1452G03
		45	(+2, -4: 2.5%)	12	460	XV373	9T17A1453G03
		75	(+2, -4: 2.5%)	12	680	XV374	9T17A1454G03
		112.5	(+2, -4: 2.5%)	12	830	XV375	9T17A1455G03

115°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
208 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	260	XV371	9T17A1451G33
		30	(+2, -4: 2.5%)	12	370	XV372	9T17A1452G33
		45	(+2, -4: 2.5%)	12	460	XV373	9T17A1453G33
		75	(+2, -4: 2.5%)	12	680	XV374	9T17A1454G33

80°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
208 Volts Delta	208Y/120 Volts	75	(+2, -4: 2.5%)	12	830	XV375	9T17A1454G63

[1] See page 10-45 and 10-46 for wiring diagrams.

Noise isolation — Guard II™

Copper coil
Three-phase DOE 2016 efficiency
Electrostatic shield



Guard II™ Transformer, (front panel removed)

150°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	270	XV371	9T17C1001G03
		30	(+2, -4: 2.5%)	12	420	XV372	9T17C1002G03
		45	(+2, -4: 2.5%)	12	540	XV373	9T17C1003G03
		75	(+2, -4: 2.5%)	12	770	XV374	9T17C1004G03
		112.5	(+2, -4: 2.5%)	12	1010	XV375	9T17C1005G03

115°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	270	XV371	9T17C1001G33
		30	(+2, -4: 2.5%)	12	420	XV372	9T17C1002G33
		45	(+2, -4: 2.5%)	12	540	XV373	9T17C1003G33
		75	(+2, -4: 2.5%)	12	770	XV374	9T17C1004G33
		112.5	(+2, -4: 2.5%)	12	1010	XV375	9T17C1005G33

80°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	420	XV372	9T17C1001G63
		30	(+2, -4: 2.5%)	12	540	XV373	9T17C1002G63
		45	(+2, -4: 2.5%)	12	770	XV374	9T17C1003G63
		75	(+2, -4: 2.5%)	12	1010	XV375	9T17C1004G63

150°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
208 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	270	XV371	9T17C1451G03
		30	(+2, -4: 2.5%)	12	420	XV372	9T17C1452G03
		45	(+2, -4: 2.5%)	12	540	XV373	9T17C1453G03

115°C Rise

Input Voltage	Output Voltage	kVA	Taps	Wiring Diagram No.[1]	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
208 Volts Delta	208Y/120 Volts	15	(+2, -4: 2.5%)	12	270	XV371	9T17C1451G33
		30	(+2, -4: 2.5%)	12	420	XV372	9T17C1452G33
		45	(+2, -4: 2.5%)	12	540	XV373	9T17C1453G33
		75	(+2, -4: 2.5%)	12	770	XV374	9T17C1454G33

[1] See page 10-45 and 10-46 for wiring diagrams.

Harmonic mitigating — Guard III™

Copper coil
Three-phase DOE 2016 efficiency
Electrostatic shield



Large Power: Type QL, 15 kVA-250 kVA, Single-Phase, DOE 2016 Efficiency, 15 kVA-500 kVA, Three-Phase, DOE 2016 Efficiency

Guard III™ Harmonic Mitigating Transformers help eliminate harmonics, improve power quality, and help save energy by reducing the energy (heating) losses. They maintain DOE 2016 energy efficiency even when harmonics are present.

Power supplies that convert AC to DC current – for plant floor equipment, computers, copiers, electronic ballasts, and others – generate harmonics that create an irregular current waveform. These harmonics, in turn, create power quality problems such as overheated transformers, motors and neutral wires; nuisance breaker trips; and electronic equipment malfunction and failure.

Key Features

- 0° Phase shift; +15° Phase Shift; -15° Phase Shift or -30° Phase Shift
- Copper windings
- K-factor load profile of 20
- Crest factor load profile of 5
- NEMA 1 and/or 2 drip-proof enclosure
- Rain shield available for field conversion to NEMA 3R
- NEMA 3R stainless steel (Type 316) up through 150 kVA

150°C Rise NEMA 2, 0° Phase Shift

Input Voltage	Output Voltage	kVA	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	318	H371C	9T76H9871G03
		30	552	H372C	9T76H9872G03
		45	643	H373C	9T76H9873G03
		75	1053	H374C	9T76H9874G03
		112.5	1980	H375C	9T76H9875G03
		150	2125	H376C	9T76H9876G03
		300	3170	YF378	9T76H9878G03

150°C Rise NEMA 2, -30° Phase Shift

Input Voltage	Output Voltage	kVA	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	15	318	H371C	9T77H9871G03
		30	552	H372C	9T77H9872G03
		45	643	H373C	9T77H9873G03
		75	1053	H374C	9T77H9874G03
		112.5	1980	H375C	9T77H9875G03
		150	2125	H376C	9T77H9876G03
		300	3170	YF378	9T77H9878G03

150° C Rise NEMA 2, +15° Phase Shift

Input Voltage	Output Voltage	kVA	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	112.5	1980	H375C	9T79H9875G03

150° C Rise NEMA 2, -15° Phase Shift

Input Voltage	Output Voltage	kVA	Approx. Net Weight (Lbs)	Frame Size	Catalog Number
480 Volts Delta	208Y/120 Volts	112.5	1980	H375C	9T78H9875G03

Servicenter™ mini-unit substations

Integral transformer and distribution center

Product Description
This easily installed and serviceable unit incorporates a Type QMS transformer (single-phase) or a Type QL transformer (three-phase), a primary main circuit breaker, a secondary main circuit breaker, and a load-center-design breaker panel. Since these components don't have to be installed and interconnected separately, the contractor or user can reduce installation time and costs. Because of the single-unit concept, only one, handy Servicenter™ needs to be mounted.

Available in single-phase, 5 through 25 kVA, and in three-phase, 15 through 30 kVA, 600 Volt class ratings, the ABB Servicenter™ is a convenient, economical way to meet your industrial and temporary power requirements.

The Transformer—The Servicenter™ utilizes ABB transformer design which has twenty years of field-proven experience behind it and a long track record for assuring consistent, reliable performance. Type QMS transformers employ a 180°C UL Recognized insulation system with a 115°C rise. Type QL transformers employ a 220°C UL Recognized insulation system with a 150°C rise.

The Panel—The panel assembly includes the rugged ABB PowerMark Plus™ circuit breaker load center interior, E-frame primary breakers, and E-frame or Q Line secondary breakers. The load center will accept one-, two-, or three-pole (three-phase) common trip circuit breakers and ground fault breakers. All Servicenters™ come equipped with the properly sized primary main and secondary main circuit breakers installed and prewired. Branch breakers are not included. The load center is rated at 10 kAIC SCCR.

Advantages
- Transformer, load center and breakers are all designed, built and assembled by ABB
- Saves time and money - pre-assembled, pre-wired unit saves time on the job
- High reliability – assembled and tested in our UL approved factory to assure consistency and quality
- Available ABB ground-fault breakers ensure electrical safety around construction sites or wherever water may be present
-

Key Features
- Keyhole mounting flange facilitates easy mounting
- Indoor and outdoor use
- Front-accessible, hinged or removable panel door is safe and convenient
- Heat barrier under core and coil provides electrical and thermal isolation for wiring compartment
- High-efficiency core construction results in quiet transformer operation and low no-load losses
- Factory installed and wired ABB main and secondary main circuit breakers

Application
The single-phase Servicenter™ can be used wherever 480 Volt power is available and 120 or 240 Volt branch circuits are required. The three-phase Servicenter™ can be used wherever 240 Volt, 480 Volt or 600 Volt primary is available and 208Y/120 Volt secondary circuits are required. The unit can be used in such applications as vending machine areas, construction laboratory test areas, general construction sites where temporary or quickly obtained power is required, or where future expansion of branch circuits is planned.
- Vending or concession areas
- Office buildings
- Assembly lines
- Mining applications
- Parking lots
- Light industrial areas
- Warehouses
- Construction sites
-

NEC Requirements
The Servicenter™ conforms with Article 450-3 of the National Electric Code regarding overcurrent protection requirements for transformers and are UL listed to UL 1062, YEFR:E75204.



Single-Phase Servicenter™, Hinged Door Removed



Three-Phase Servicenter™, Closed View

Servicenter™ mini-unit substations

Integral transformer and distribution center
Single-phase and three-phase DOE 2016 efficiency



Three-Phase Servicenter™

Single-Phase Indoor/Outdoor 60 Hz 115°C Winding Temperature

Input Voltage	Output Voltage	kVA	Max. Branch Spaces 1 THQL, 1-pole	Max. Branch Spaces 1 THQL, 2-pole	Total 1-pole Spaces	Breaker Rating-Primary Main	Breaker Rating-Secondary Main	Catalog Number
480 Volts Delta	120/240 Volts	5	8	4	12	25A	30A	9T21S1050
		7.5	8	4	12	35A	40A	9T21S1070
		10	12	6	16	50A	50A	9T21S1100
		15	12	6	24	60A	70A	9T21S1150
		25	20	10	24	100A	150A	9T21S1250

Three-Phase[2] Indoor/Outdoor 60 Hz[1] 150°C DOE 2016 Efficiency Aluminum Transformer Windings

Input Voltage	Output Voltage	kVA	Max. Branch Spaces, 1-pole	Max. Branch Spaces 3-pole	Total 1-pole Spaces	Breaker Rating-Primary Main	Breaker Rating-Secondary Main	Catalog Number
240 Volts Delta	208Y/120 Volts	15	12	4	12	100A	50A	9T17A0001
		30	24	8	24	100A	100A	9T17A0003
480 Volts Delta	208Y/120 Volts	15	12	4	12	40A	50A	9T17A0011
		22.5	18	6	18	70A	70A	9T17A0012
		30	24	8	24	90A	100A	9T17A0013
600 Volts Delta	208Y/120 Volts	15	12	4	12	40A	50A	9T17A0021
		30	24	8	24	40A	100A	9T17A0023



Single-Phase Servicenter™

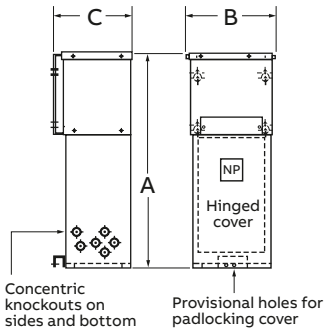
Three-Phase[2] Indoor/Outdoor 60 Hz[1] 150°C DOE 2016 Efficiency Copper Transformer Windings

Input Voltage	Output Voltage	kVA	Max. Branch Spaces, 1-pole	Max. Branch Spaces 3-pole	Total 1-pole Spaces	Breaker Rating-Primary Main	Breaker Rating-Secondary Main	Catalog Number
240 Volts Delta	208Y/120 Volts	15	12	4	12	100A	50A	9T17C0004
480 Volts Delta	208Y/120 Volts	15	12	4	12	40A	50A	9T17C0014
		22.5	18	6	18	70A	70A	9T17C0015
		30	24	8	24	90A	100A	9T17C0016

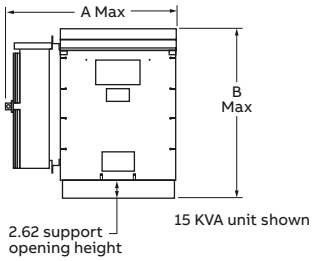
[1] (3) 5% taps 1 above and 2 below rated primary volts.
[2] Stainless steel (Type 316) enclosures are available as an engineered made to order item.

Servicenter™ mini-unit substations

Integral transformer and distribution center
Outlines, dimensions and wiring diagrams



Dimensions Single-Phase



Dimensions Three-Phase

Single-Phase

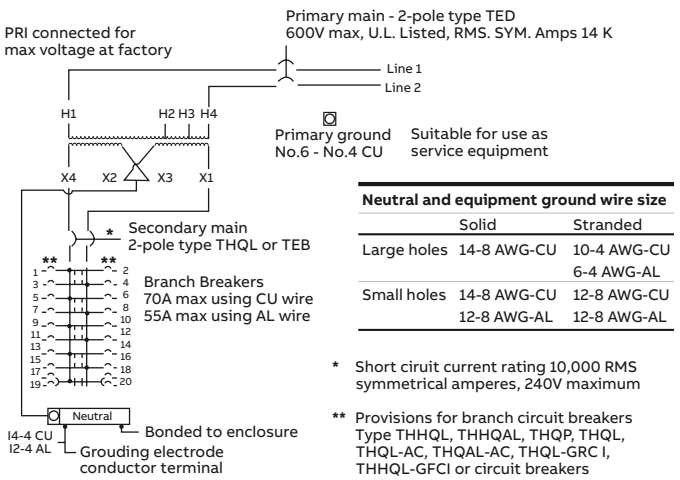
kVA	Catalog Number	Approx. Net Weight (Lbs.)	"A" Height (in.)	"B" Width (in.)	"C" Depth (in.)	Frame Size
5	9T21S1050	103	32.5	10.75	11.12	16350
7.5	9T21S1070	147	32.5	10.75	11.12	16600
10	9T21S1100	198	35	12.62	12.62	19400
15	9T21S1150	220	35	12.62	12.62	19500
25	9T21S1250	388	44.75	16.75	16	50500

Three-Phase DOE 2016 Efficiency Aluminum

kVA	Catalog Number	Approx. Net Weight (Lbs.)	"A" Height (in.)	"B" Width (in.)	"C" Depth (in.)	Frame Size
15	9T17A0001	280	27.3	27.4	16.9	UX71A
30	9T17A0003	450	32.2	34.5	24	UX72A
15	9T17A0011	280	27.3	27.4	16.9	UX71A
22.5	9T17A0012	450	32.2	34.5	24	UX72A
30	9T17A0013	450	32.2	34.5	24	UX72A
15	9T17A0021	280	27.3	27.4	16.9	UX71A
30	9T17A0023	450	32.2	34.5	24	UX72A

Three-Phase DOE 2016 Efficiency Copper

kVA	Catalog Number	Approx. Net Weight (Lbs.)	"A" Height (in.)	"B" Width (in.)	"C" Depth (in.)	Frame Size
15	9T17C0004	290	27.3	27.4	16.9	UX71C
15	9T17C0014	290	27.3	27.4	16.9	UX71C
22.5	9T17C0015	460	32.2	34.5	24	UX72C
30	9T17C0016	460	32.2	34.5	24	UX72C

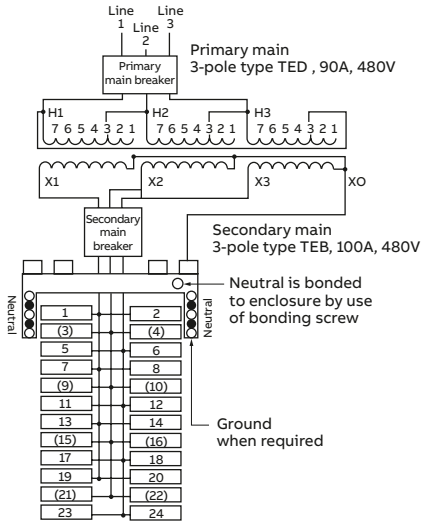


Neutral and equipment ground wire size		
	Solid	Stranded
Large holes	14-8 AWG-CU	10-4 AWG-CU
		6-4 AWG-AL
Small holes	14-8 AWG-CU	12-8 AWG-CU
	12-8 AWG-AL	12-8 AWG-AL

* Short ciruit current rating 10,000 RMS symmetrical amperes, 240V maximum

** Provisions for branch circuit breakers Type THHQL, THHQAL, THQP, THQL, THQL-AC, THQAL-AC, THQL-GRC I, THHQL-GFCI or circuit breakers

Typical Wiring Diagram Single-Phase



Typical Wiring Diagram Three-Phase[1]

[1]For 22.5 and 15 kVA three-phase Servicenters™, secondary main breaker is a backfed plug-in type with positive retainers.

Totally enclosed, nonventilated

TENV

15-75kVA, three-phase, NEMA TP-1 efficiency



TENV Transformer

Totally enclosed nonventilated (TENV) transformers are an excellent choice for applications where dry-type transformer benefits are desired but the standard enclosure openings are unacceptable because of adverse atmospheric conditions. TENV transformers are recommended where dust, dirt or lint may be present or where transformers are subject to sprays or controlled wash-down conditions. They are UL Listed through 75kVA for indoor or protected outdoor applications.

Advantages

- Dry-type transformer is housed in an enclosed NEMA 3R (IP32) non-ventilated compartment
- Convenient wiring compartment is located beneath the transformer and has removable front and rear covers
- Copper bus bars are located at the front of the wiring compartment and are clearly labeled
- All electrical connections between the transformer and bus bars are factory wired
- Quiet performance – meets NEMA ST-20
- No-weld coil termination design
- Comprehensive factory testing assures quality

Features

- Quiet design - unique core and coil design makes ABB TENV transformers among the quietest available
- Core and coil assembly mounted on rubber isolation pads to reduce noise
- 100% factory tested for shorts and coil integrity, current and loss, voltage, impedance and noise
- Qualified to the seismic requirements of IEEE-693-2005 and IBC-2018/CBC-2019
- Copper ground strap
- Copper or aluminum windings available
- Available in 150°C, 115°C, and 80°C rise models
- Indoor or outdoor use

Applications

- Textile
- Automotive
- Foundry
- Paper mills
- Wash-down areas

Totally enclosed, nonventilated

TENV

Three-phase NEMA TP-1 efficiency



TENV Transformer

Aluminum 150°C Rise

Input Voltage	Output Voltage	kVA	Taps	Net Weight (Lbs)	Frame Size	Catalog Number
480	208Y/120	15	(+2, -4: 2.5%)	370	XV372	9T85B3871
		30	(+2, -4: 2.5%)	450	XV373	9T85B3872
		45	(+2, -4: 2.5%)	670	XV374	9T85B3873
		75	(+2, -4: 2.5%)	815	XV375	9T85B3874

Aluminum 115°C Rise

Input Voltage	Output Voltage	kVA	Taps	Net Weight (Lbs)	Frame Size	Catalog Number
480	208Y/120	15	(+2, -4: 2.5%)	370	XV372	9T85B3871G15
		30	(+2, -4: 2.5%)	450	XV373	9T85B3872G15
		45	(+2, -4: 2.5%)	670	XV374	9T85B3873G15
		75	(+2, -4: 2.5%)	815	XV375	9T85B3874G15

Aluminum 80°C Rise

Input Voltage	Output Voltage	kVA	Taps	Net Weight (Lbs)	Frame Size	Catalog Number
480	208Y/120	30	(+2, -4: 2.5%)	670	XV374	9T85B3872G80

Copper 150°C Rise

Input Voltage	Output Voltage	kVA	Taps	Net Weight (Lbs)	Frame Size	Catalog Number
480	208Y/120	15	(+2, -4: 2.5%)	410	XV372	9T85C9871
		30	(+2, -4: 2.5%)	525	XV373	9T85C9872
		45	(+2, -4: 2.5%)	760	XV374	9T85C9873
		75	(+2, -4: 2.5%)	1000	XV375	9T85C9874

Copper 115°C Rise

Input Voltage	Output Voltage	kVA	Taps	Net Weight (Lbs)	Frame Size	Catalog Number
480	208Y/120	15	(+2, -4: 2.5%)	410	XV372	9T85C9871G15
		30	(+2, -4: 2.5%)	525	XV373	9T85C9872G15
		45	(+2, -4: 2.5%)	760	XV374	9T85C9873G15
		75	(+2, -4: 2.5%)	1000	XV375	9T85C9874G15

Copper 80°C Rise

Input Voltage	Output Voltage	kVA	Taps	Net Weight (Lbs)	Frame Size	Catalog Number
480	208Y/120	15	(+2, -4: 2.5%)	410	XV372	9T85C9871G80
		45	(+2, -4: 2.5%)	760	XV374	9T85C9873G80

Midtapped

Aluminum

Three-phase DOE 2016 efficiency



Large Power: Type QL, 15 kVA-250 kVA, Single-Phase, DOE 2016 Efficiency, 15 kVA-500 kVA, Three-Phase, DOE 2016 Efficiency

ABB Type QL midtapped transformer enables the user to transform three-phase power from 480 Volts primary to 240 Volts secondary and have 120 Volt, reduced capacity tap (RCT) single-phase capability as well. This is because a single-phase midtap is brought out of one coil of the unit's three-phase secondary winding. These transformers are UL listed, File E-79145.

Application

The Type QL midtapped design can be used wherever there is 480 Volt, three-phase supply available and the load is primarily 240 Volt three-phase with a nominal amount of 120 Volt, single-phase power required. Normally, in this instance, a small single-phase as well as a three-phase transformer would be required to provide the necessary transformation.

Caution: When utilizing the 120 Volt midtap for single-phase applications, the single-phase load should not exceed 5 percent of the three-phase kVA rating. The three-phase kVA load must be reduced by the same percentage as that added by the single-phase load. Additional loading beyond 5 percent may cause the transformer to overheat and fail. If the single-phase load is in excess of 5 percent, it is recommended that a separate single-phase unit be used to handle the load.

150°C Rise 60Hz

Input Voltage	Output Voltage	kVA	Taps	Net Weight (Lbs)	Frame Size	Catalog Number
480	240/120	15	(+2, -4: 2.5%)	231	UX71A	9T10A1181
		30	(+2, -4: 2.5%)	330	UX72A	9T10A1182
		45	(+2, -4: 2.5%)	444	UX73A	9T10A1183
		75	(+2, -4: 2.5%)	561	UY74A	9T10A1184
		112.5	(+2, -4: 2.5%)	830	DX75A	9T10A1185
		150	(+2, -4: 2.5%)	1030	DY76A	9T10A1186
		225	(+2, -4: 2.5%)	1450	DY77A	9T10A1187
		300	(+2, -4: 2.5%)	1670	DY78A	9T10A1188
		500	(+2, -2: 2.5%)	2900	DX79A	9T10A1189

115°C Rise 60Hz

Input Voltage	Output Voltage	kVA	Taps	Net Weight (Lbs)	Frame Size	Catalog Number
480	240/120	15	(+2, -4: 2.5%)	231	UX71A	9T10A1181G31
		30	(+2, -4: 2.5%)	330	UX72A	9T10A1182G31
		45	(+2, -4: 2.5%)	444	UX73A	9T10A1183G31
		75	(+2, -4: 2.5%)	603	UX74A	9T10A1184G31
		112.5	(+2, -4: 2.5%)	830	DX75A	9T10A1185G31
		150	(+2, -4: 2.5%)	1250	DX76A	9T10A1186G31
		225	(+2, -4: 2.5%)	1670	DX77A	9T10A1187G31
		300	(+2, -4: 2.5%)	1985	DX78A	9T10A1188G31
		500	(+2, -2: 2.5%)	2900	DX79A	9T10A1189G31

80°C Rise 60Hz

Input Voltage	Output Voltage	kVA	Taps	Net Weight (Lbs)	Frame Size	Catalog Number
480	240/120	15	(+2, -4: 2.5%)	330	UX72A	9T10A1181G61
		30	(+2, -4: 2.5%)	444	UX73A	9T10A1182G61
		45	(+2, -4: 2.5%)	561	UY74A	9T10A1183G61
		75	(+2, -4: 2.5%)	680	DY75A	9T10A1184G61
		150	(+2, -4: 2.5%)	1450	DY77A	9T10A1186G61
		225	(+2, -4: 2.5%)	1985	DX78A	9T10A1187G61

Midtapped

Aluminum

Three-phase DOE 2016 efficiency



Large Power: Type QL, 15 kVA-250 kVA, Single-Phase, DOE 2016 Efficiency, 15 kVA-500 kVA, Three-Phase, DOE 2016 Efficiency

150°C Rise 60Hz Low Noise (-3dB)

Input Voltage	Output Voltage	kVA	Taps	Net Weight (Lbs)	Frame Size	Catalog Number
480	240/120	15	(+2, -4: 2.5%)	231	UX71A	9T10A1181G02
		30	(+2, -4: 2.5%)	330	UX72A	9T10A1182G02
		45	(+2, -4: 2.5%)	444	UX73A	9T10A1183G02
		75	(+2, -4: 2.5%)	561	UY74A	9T10A1184G02
		112.5	(+2, -4: 2.5%)	680	DX75A	9T10A1185G02
		150	(+2, -4: 2.5%)	1030	DY76A	9T10A1186G02
		225	(+2, -4: 2.5%)	1450	DY77A	9T10A1187G02
		300	(+2, -4: 2.5%)	1670	DY78A	9T10A1188G02
		500	(+2, -2: 2.5%)	2900	DX79A	9T10A1189G02

115°C Rise 60Hz Low Noise (-3dB)

Input Voltage	Output Voltage	kVA	Taps	Net Weight (Lbs)	Frame Size	Catalog Number
480	240/120	15	(+2, -4: 2.5%)	231	UX71A	9T10A1181G32
		30	(+2, -4: 2.5%)	330	UX72A	9T10A1182G32
		45	(+2, -4: 2.5%)	444	UX73A	9T10A1183G32
		75	(+2, -4: 2.5%)	603	UX74A	9T10A1184G32
		112.5	(+2, -4: 2.5%)	830	DX75A	9T10A1185G32
		150	(+2, -4: 2.5%)	1250	DX76A	9T10A1186G32
		225	(+2, -4: 2.5%)	1670	DX77A	9T10A1187G32
		300	(+2, -4: 2.5%)	1985	DX78A	9T10A1188G32
		500	(+2, -2: 2.5%)	2900	DX79A	9T10A1189G32

Midtapped

Copper

Three-phase DOE 2016 efficiency



Large Power: Type QL, 15 kVA-250 kVA, Single-Phase, DOE 2016 Efficiency, 15 kVA-500 kVA, Three-Phase, DOE 2016 Efficiency

150°C Rise 60Hz

Input Voltage	Output Voltage	kVA	Taps	Net Weight (Lbs)	Frame Size	Catalog Number
480	240/120	15	(+2, -4: 2.5%)	230	UX71C	9T10C1181
		30	(+2, -4: 2.5%)	353	UX72C	9T10C1182
		45	(+2, -4: 2.5%)	480	UX73C	9T10C1183
		75	(+2, -4: 2.5%)	661	UY74C	9T10C1184
		112.5	(+2, -4: 2.5%)	790	DY75C	9T10C1185
		150	(+2, -4: 2.5%)	1085	DY76C	9T10C1186
		225	(+2, -4: 2.5%)	1610	DY77C	9T10C1187
		300	(+2, -4: 2.5%)	1970	DY78C	9T10C1188
		500	(+2, -2: 2.5%)	3720	DX79C	9T10C1189

115°C Rise 60Hz

Input Voltage	Output Voltage	kVA	Taps	Net Weight (Lbs)	Frame Size	Catalog Number
480	240/120	15	(+2, -4: 2.5%)	230	UX71C	9T10C1181G31
		30	(+2, -4: 2.5%)	353	UX72C	9T10C1182G31
		45	(+2, -4: 2.5%)	480	UX73C	9T10C1183G31
		75	(+2, -4: 2.5%)	748	UX74C	9T10C1184G31
		112.5	(+2, -4: 2.5%)	900	DX75C	9T10C1185G31
		150	(+2, -4: 2.5%)	1240	DX76C	9T10C1186G31
		300	(+2, -4: 2.5%)	2150	DX78C	9T10C1188G31
		500	(+2, -2: 2.5%)	3720	DX79C	9T10C1189G31

80°C Rise 60Hz

Input Voltage	Output Voltage	kVA	Taps	Net Weight (Lbs)	Frame Size	Catalog Number
480	240/120	15	(+2, -4: 2.5%)	353	UX72C	9T10C1181G61
		30	(+2, -4: 2.5%)	480	UX73C	9T10C1182G61
		45	(+2, -4: 2.5%)	661	UY74C	9T10C1183G61
		75	(+2, -4: 2.5%)	790	DY75C	9T10C1184G61
		225	(+2, -4: 2.5%)	2150	DX78C	9T10C1187G61

150°C Rise 60Hz Low Noise (-3dB)

Input Voltage	Output Voltage	kVA	Taps	Net Weight (Lbs)	Frame Size	Catalog Number
480	240/120	15	(+2, -4: 2.5%)	230	UX71C	9T10C1181G02
		30	(+2, -4: 2.5%)	353	UX72C	9T10C1182G02
		45	(+2, -4: 2.5%)	480	UX73C	9T10C1183G02
		75	(+2, -4: 2.5%)	661	UY74C	9T10C1184G02
		112.5	(+2, -4: 2.5%)	790	DY75C	9T10C1185G02
		225	(+2, -4: 2.5%)	1610	DY77C	9T10C1187G02

115°C Rise 60Hz Low Noise (-3dB)

Input Voltage	Output Voltage	kVA	Taps	Net Weight (Lbs)	Frame Size	Catalog Number
480	240/120	75	(+2, -4: 2.5%)	748	UX74C	9T10C1184G32
		112.5	(+2, -4: 2.5%)	900	DX75C	9T10C1185G32

80°C Rise 60Hz Low Noise (-3dB)

Input Voltage	Output Voltage	kVA	Taps	Net Weight (Lbs)	Frame Size	Catalog Number
480	240/120	15	(+2, -4: 2.5%)	353	UX72C	9T10C1181G62
		30	(+2, -4: 2.5%)	480	UX73C	9T10C1182G62
		75	(+2, -4: 2.5%)	790	DY75C	9T10C1184G62
		150	(+2, -4: 2.5%)	1610	DY77C	9T10C1186G62

Drive isolation

Aluminum

Three-phase

Application

The use of SCR control circuitry with adjustable-speed drives has resulted in a need for a line of isolation transformers specifically designed to meet the demanding requirements of SCR drives.

Symmetrically placed taps and added coil bracing minimize mechanical forces caused by the often severe SCR drive duty cycles.

These features also help protect the transformer from the regenerative duty and more frequent short-circuits associated with SCR drives. Isolation transformers also reduce line-pollution feedback resulting from SCR firing circuits. The ABB delta-wye designs meet the NEC requirements for grounded secondary neutrals that isolate primary distribution systems. kVA ratings of the DIT line cover most dc motor requirements from 3 to 1000 hp. Enclosed drive isolation transformers are UL listed.



Large Power: Type QL, 15 kVA-250 kVA, Single-Phase, DOE 2016 Efficiency, 15 kVA-500 kVA, Three-Phase, DOE 2016 Efficiency

15 - 220 kVA Indoor Type QL UL Listed

Input Voltage	Output Voltage	kVA	Frequency (Hz)	Wiring Diagram No.[1]	Weight (Lbs)	Frame Size	Catalog Number
230 Volts Delta	230Y/133 Volts	15	60Hz	16	240	XV371	9T83B4000G29
		20	60Hz	16	334	XV372	9T83B4001G29
		27	60Hz	16	334	XV372	9T83B4002G29
		34	60Hz	16	334	XV372	9T83B4003G29
		40	60Hz	16	415	XV373	9T83B4004G29
		51	60Hz	16	415	XV373	9T83B4005G29
		75	60Hz	16	620	XV374	9T83B4007G29
		93	60Hz	16	765	XV375	9T83B4008G29
		118	60Hz	16	1070	XV376	9T83B4009G29
230 Volts Delta	460Y/266 Volts	15	60Hz	16	240	XV371	9T83B4000G28
		20	60Hz	16	334	XV372	9T83B4001G28
		27	60Hz	16	334	XV372	9T83B4002G28
		34	60Hz	16	334	XV372	9T83B4003G28
		63	60Hz	16	620	XV374	9T83B4006G28
		93	60Hz	16	765	XV375	9T83B4008G28
		118	60Hz	16	1070	XV376	9T83B4009G28
		145	60Hz	16	1070	XV376	9T83B4010G28
		175	60Hz	16	1590	XV377	9T83B4011G28

[1] See page 10-45 and 10-46 for wiring diagrams.

Drive isolation

Aluminum

Three-phase



Large Power: Type QL, 15 kVA-250 kVA, Single-Phase, DOE 2016 Efficiency, 15 kVA-500 kVA, Three-Phase, DOE 2016 Efficiency

15 - 220 kVA Indoor Type QL UL Listed (continued)

Input Voltage	Output Voltage	kVA	Frequency (Hz)	Wiring Diagram No.[1]	Weight (Lbs)	Frame Size	Catalog Number
460 Volts Delta	230Y/133	15	60 Hz	16	240	XV371	9T83B4000G23
		20	60 Hz	16	334	XV372	9T83B4001G23
		27	60 Hz	16	334	XV372	9T83B4002G23
		34	60 Hz	16	334	XV372	9T83B4003G23
		40	60 Hz	16	415	XV373	9T83B4004G23
		51	60 Hz	16	415	XV373	9T83B4005G23
		63	60 Hz	16	620	XV374	9T83B4006G23
		75	60 Hz	16	620	XV374	9T83B4007G23
		93	60 Hz	16	765	XV375	9T83B4008G23
		118	60 Hz	16	1070	XV376	9T83B4009G23
		145	60 Hz	16	1070	XV376	9T83B4010G23
		220	60 Hz	16	1590	XV377	9T83B4012G23
460 Volts Delta	460Y/266	15	60 Hz	16	240	XV371	9T83B4000G22
		20	60 Hz	16	334	XV372	9T83B4001G22
		27	60 Hz	16	334	XV372	9T83B4002G22
		34	60 Hz	16	334	XV372	9T83B4003G22
		40	60 Hz	16	415	XV373	9T83B4004G22
		51	60 Hz	16	415	XV373	9T83B4005G22
		63	60 Hz	16	620	XV374	9T83B4006G22
		75	60 Hz	16	620	XV374	9T83B4007G22
		93	60 Hz	16	765	XV375	9T83B4008G22
		118	60 Hz	16	1070	XV376	9T83B4009G22
		145	60 Hz	16	1070	XV376	9T83B4010G22
		175	60 Hz	16	1590	XV377	9T83B4011G22
		220	60 Hz	16	1590	XV377	9T83B4012G22
575 Volts Delta	230Y/133	20	60 Hz	16	334	XV372	9T83B4001G27
		63	60 Hz	16	620	XV374	9T83B4006G27
		75	60 Hz	16	620	XV374	9T83B4007G27
		118	60 Hz	16	1070	XV376	9T83B4009G27
575 Volts Delta	460Y/266	15	60 Hz	16	240	XV371	9T83B4000G26
		27	60 Hz	16	334	XV372	9T83B4002G26
		34	60 Hz	16	334	XV372	9T83B4003G26
		51	60 Hz	16	415	XV373	9T83B4005G26
		145	60 Hz	16	1070	XV376	9T83B4010G26
		175	60 Hz	16	1590	XV377	9T83B4011G26
		220	60 Hz	16	1590	XV377	9T83B4012G26

[1] See page 10-45 and 10-46 for wiring diagrams.

NOTE: Full capacity symmetrical taps (1) +5% and (1) –5%, in primary windings for 230 and 460 Y thru 550 kVA; (1) +6.2% and (1) –6.2% at 750 kVA; (1) +6.4% and (1) –6.4%) at 1000 kVA. With 575 V primary, symmetrical 5% taps apply thru 750 kVA; at 1000 kVA, (1) +5.1% and (1) –5.1%. For ratings less than 15 kV contact ABB Sales Office.

Accessories and lugs

Single-phase and three-phase

Wall mount bracket

Frame Size	Catalog Number
UX71A	9T18Y1071G07
UX71C	9T18Y1071G07
UX72A	9T18Y1071G07
UX72C	9T18Y1071G07
UX73A	9T18Y1071G07
UX73C	9T18Y1071G07
UX74A	9T18Y1074G07
UX74C	9T18Y1074G07
UY04A	9T18Y1074G07
UY74A	9T18Y1074G07
UY74C	9T18Y1074G07
DX75C	9T18Y1074G07
DY75A	9T18Y1074G07
DY75C	9T18Y1074G07
YF171	9T18Y5042
YF172	9T18Y5043
YF174	9T18Y5043
YF175	Not available
YF176	Not available
YF177	Not available
YX171	9T18Y1071G07
YX172	9T18Y1074G07
XV173	9T18Y1074G07
YX174	9T18Y1074G07
YX175	Not available

Bottom pan

Frame Size	Catalog Number
DY08A	9T18Y1078G09
DX76A	9T18Y1077G09
DX77A	9T18Y1077G09
DX77C	9T18Y1077G09
DY77A	9T18Y1077G09
DY77C	9T18Y1077G09
DX78A	9T18Y1078G09
DX78C	9T18Y1078G09
DY78A	9T18Y1078G09
DY78C	9T18Y1078G09
DX79A	9T18Y1079G09
DY79A	9T18Y1079G09
DY79C	9T18Y1079G09
DX79C	9T18Y1079G09
YF175	9T18Y4504G77
YF176	9T18Y4504G79
YF177	9T18Y4504G79

316 stainless steel rain shield kit

Frame Size	Catalog Number
UX71A	9T18Y1171G06
UX71C	9T18Y1171G06
UX72A	9T18Y1172G06
UX73A	9T18Y1172G06
UX72C	9T18Y1172G06
UX73C	9T18Y1172G06
UY74A	9T18Y1174G06
UX74A	9T18Y1174G06
UY74C	9T18Y1174G06
UX74C	9T18Y1174G06
DY75A	9T18Y1174G06
DY75C	9T18Y1174G06
DX75C	9T18Y1174G06
DY76A	9T18Y1176G06
DY76C	9T18Y1176G06
DX75A	9T18Y1176G06
DX76C	9T18Y1176G06

Ground bar kit

Frame Size	Catalog Number
UY04A	9T18Y1074G11
UX71A	9T18Y1071G11
UX71C	9T18Y1071G11
UX72A	9T18Y1071G11
UX73A	9T18Y1071G11
UX72C	9T18Y1071G11
UX73C	9T18Y1071G11
UY74A	9T18Y1074G11
UX74A	9T18Y1074G11
UY74C	9T18Y1074G11
UX74C	9T18Y1074G11
DY75A	9T18Y1074G11
DY76A	9T18Y1074G11
DY75C	9T18Y1074G11
DY76C	9T18Y1074G11
DX75A	9T18Y1074G11
DX75C	9T18Y1074G11
DX76C	9T18Y1074G11

Rain shield kit

Frame Size	Catalog Number
UY04A	9T18Y1074G06
UX71A	9T18Y1071G06
UX71C	9T18Y1071G06
UX72A	9T18Y1072G06
UX72C	9T18Y1072G06
UX73A	9T18Y1072G06
UX73C	9T18Y1072G06
UY74A	9T18Y1074G06
UX74A	9T18Y1074G06
UY74C	9T18Y1074G06
UX74C	9T18Y1074G06
DY08A	9T18Y1077G06
DY75A	9T18Y1074G06
DY75C	9T18Y1074G06
DX75A	9T18Y1076G06
DX75C	9T18Y1074G06
DY76A	9T18Y1076G06
DY76C	9T18Y1076G06
DX76A	9T18Y1077G06
DX76C	9T18Y1076G06
DX77A	9T18Y1077G06
DX77C	9T18Y1077G06
DY77A	9T18Y1077G06
DY77C	9T18Y1077G06
DY78C	9T18Y1077G06
DY78A	9T18Y1077G06
DX78A	9T18Y1077G06
DX78C	9T18Y1077G06
DX79A	9T18Y1079G06
DX79C	9T18Y1079G06
DY79A	9T18Y1079G06
DY79C	9T18Y1079G06
YF171	9T18Y4317G05
YF172	9T18Y4317G06
YF173	9T18Y4317G06
YF174	9T18Y1074G06
YF175	9Y18Y4322G77
YF176	9T18Y4322G88
YF177	9T18Y4322G88
YX171	9T18Y1072G06
YX172	9T18Y1074G06
XV173	9T18Y1074G06
YX174	9T18Y1074G06
YX175	9T18Y1077G06

Lug kits for QL transformers

Frame Size	Catalog Number
UY04A	9T18Y1074G10
UX71A	9T18Y1071G10
UX71C	9T18Y1071G10
UX72A	9T18Y1072G10
UX73A	9T18Y1072G10
UX72C	9T18Y1072G10
UX73C	9T18Y1072G10
UY74A	9T18Y1074G10
UX74A	9T18Y1074G10
UY74C	9T18Y1074G10
UX74C	9T18Y1074G10
DY08A	9T18Y1078G10
DY75A	9T18Y1075G10
DY75C	9T18Y1075G10
DX75C	9T18Y1075G10
DY76A	9T18Y1076G10
DY76C	9T18Y1076G10
DX75A	9T18Y1076G10
DX76C	9T18Y1076G10
DY77A	9T18Y1077G10
DY77C	9T18Y1077G10
DX76A	9T18Y1077G10
DX77A	9T18Y1077G10
DX77C	9T18Y1077G10
DY78A	9T18Y1078G10
DY78C	9T18Y1078G10
DX78A	9T18Y1078G10
DX78C	9T18Y1078G10
DX79A	9T18Y1079G10
DX79C	9T18Y1079G10
DY79A	9T18Y1079G10
DY79C	9T18Y1079G10
YF171	9T18Y7240G02
YF172	9T18Y7241G03
YF174	9T18Y7240G03
YF175	9T18Y7242G07
YF176	9T18Y7242G05
YF177	9T18Y7242G05

Accessories and lugs

Single-phase and three-phase

Single-phase lug kits

Coil Material	Temp Rise	kVA	Frame Size	Primary Bus Bar Holes (Qty/Size)	Secondary Bus Bar Holes (Qty/Size)	Lug Kit	Cable Size	Stud Diameter	Lug	Qty
Alumninum/ Copper	115 or 150	15/25 37.5	YF171	(2) .406 dia	(2) .406 dia	9T18Y7240G02	250MCM-6	(1) 21/64	P250	8
		50	YF172	(2) .406 dia	(2) .406 dia	9T18Y7241G03	250MCM-6	(1) 21/64	P250	4
							350MCM-6	(1) 13/32	P350	4
		75	YF174	(2) .406 dia	(2) .406 dia	9T18Y7240G03	250MCM-6	(1) 21/64	P250	12
		100	YF175	(2) .406 dia	(2) .406 dia	9T18Y7242G07	350MCM-6	(1) 13/32	P350	12
	150	167	YF176	(2) .406 dia	(2) .406 dia	9T18Y7242G05	350MCM-6	(1) 13/32	P350	8
							500MCM-4	(1) 13/32	P500	12

Three-phase lug kits

Coil Material	Temp Rise	kVA	Frame Size	Primary Bus Bar Holes (Qty/Size)	Secondary Bus Bar Holes (Qty/Size)	Lug Kit	Cable Size	Stud Diameter	Lug	Qty
Aluminum	115 or 150	15	UX71A	(2) .406 dia	(2) .406 dia	9T18Y1071G10	1/0-14	(1) 17/64	P125	7
		30	UX72A	(2) .406 dia	(2) .406 dia	9T18Y1072G10	250MCM-6	(1) 21/64	P250	7
		45	UX73A	(2) .406 dia	(2) .406 dia	9T18Y1072G10	250MCM-6	(1) 21/64	P250	7
		500	DX79A	(4) .563 dia	(6) .563 dia	9T18Y1079G10	350MCM-6	(1) 13/32	P350	9
							500MCM-4	(1) 13/32	P500	24
	150	75	UY74A UY04A	(2) .406 dia	(2) .406 dia	9T18Y1074G10	250MCM-6	(1) 21/64	P250	3
							350MCM-6	(1) 13/32	P350	4
	115	75	UX74A	(2) .406 dia	(2) .406 dia	9T18Y1074G10	250MCM-6	(1) 21/64	P250	3
							350MCM-6	(1) 13/32	P350	4
	150	112.5	DY75A	(1) .563 dia	(2) .563 dia	9T18Y1075G10	350MCM-6	(1) 13/32	P350	7
		150	DY76A	(1) .563 dia	(2) .563 dia	9T18Y1076G10	350MCM-6	(1) 13/32	P350	3
							500MCM-4	(1) 13/32	P500	4
		225	DY77A	(2) .563 dia	(4) .563 dia	9T18Y1077G10	350MCM-6	(1) 13/32	P350	6
							500MCM-4	(1) 13/32	P500	8
		300	DY78A	(4) .563 dia	(6) .563 dia	9T18Y1078G10	350MCM-6	(1) 13/32	P350	6
			DY08A				500MCM-4	(1) 13/32	P500	2
							600MCM-2	(1) 13/32	P600	6
		500	DY79A	(4) .563 dia	(6) .563 dia	9T18Y1079G10	350MCM-6	(1) 13/32	P350	9
							500MCM-4	(1) 13/32	P500	24
	115	112.5	DX75A	(1) .563 dia	(2) .563 dia	9T18Y1076G10	350MCM-6	(1) 13/32	P350	3
							500MCM-4	(1) 13/32	P500	4
		150	DX76A	(2) .563 dia	(4) .563 dia	9T18Y1077G10	350MCM-6	(1) 13/32	P350	6
							500MCM-4	(1) 13/32	P500	8
		225	DX77A	(2) .563 dia	(4) .563 dia	9T18Y1077G10	350MCM-6	(1) 13/32	P350	6
							500MCM-4	(1) 13/32	P500	8
		300	DX78A	(2) .563 dia	(4) .563 dia	9T18Y1078G10	350MCM-6	(1) 13/32	P350	6
							500MCM-4	(1) 13/32	P500	2
							600MCM-2	(1) 13/32	P600	6
Copper	150 or 115	15	UX71C	(2) .406 dia	(2) .406 dia	9T18Y1071G10	1/0-14	(1) 17/64	P125	7
		30	UX72C	(2) .406 dia	(2) .406 dia	9T18Y1072G10	250MCM-6	(1) 21/64	P250	7
		45	UX73C	(2) .406 dia	(2) .406 dia	9T18Y1072G10	250MCM-6	(1) 21/64	P250	7
	150	75	UY74C	(2) .406 dia	(2) .406 dia	9T18Y1074G10	250MCM-6	(1) 21/64	P250	3
							350MCM-6	(1) 13/32	P350	4
	115	75	UX74C	(2) .406 dia	(2) .406 dia	9T18Y1074G10	250MCM-6	(1) 21/64	P250	3
							350MCM-6	(1) 13/32	P350	4
	150	112.5	DY75C	(1) .563 dia	(2) .563 dia	9T18Y1075G10	350MCM-6	(1) 13/32	P350	7
		150	DY76C	(1) .563 dia	(2) .563 dia	9T18Y1076G10	350MCM-6	(1) 13/32	P350	3
							500MCM-4	(1) 13/32	P500	4
		225	DY77C	(2) .563 dia	(4) .563 dia	9T18Y1077G10	350MCM-6	(1) 13/32	P350	6
							500MCM-4	(1) 13/32	P500	8
		300	DY78C	(4) .563 dia	(6) .563 dia	9T18Y1078G10	350MCM-6	(1) 13/32	P350	6
							500MCM-4	(1) 13/32	P500	2
							600MCM-2	(1) 13/32	P600	6
		500	DY79C	(4) .563 dia	(6) .563 dia	9T18Y1079G10	350MCM-6	(1) 13/32	P350	9
							500MCM-4	(1) 13/32	P500	24
	115	112.5	DX75C	(1) .563 dia	(2) .563 dia	9T18Y1075G10	350MCM-6	(1) 13/32	P350	7
		150	DX76C	(1) .563 dia	(2) .563 dia	9T18Y1076G10	350MCM-6	(1) 13/32	P350	3
							500MCM-4	(1) 13/32	P500	4
		225	DX77C	(2) .563 dia	(4) .563 dia	9T18Y1077G10	350MCM-6	(1) 13/32	P350	6
							500MCM-4	(1) 13/32	P500	8
		300	DX78C	(2) .563 dia	(4) .563 dia	9T18Y1078G10	350MCM-6	(1) 13/32	P350	6
							500MCM-4	(1) 13/32	P500	2
							600MCM-2	(1) 13/32	P600	6

Enclosure parts

Enclosure kits

Frame Size	Catalog Number
UY04A	9T18Y1074G01
UX71A	9T18Y1071
UX71C	9T18Y1071
UX72A	9T18Y1072
UX73A	9T18Y1072
UX72C	9T18Y1072
UX73C	9T18Y1072
UY74A	9T18Y1074
UX74A	9T18Y1074
UY74C	9T18Y1074
UX74C	9T18Y1074
DY08A	9T18Y1078G01
DY75A	9T18Y1075
DY75C	9T18Y1075
DX75C	9T18Y1075
DY76A	9T18Y1076
DY76C	9T18Y1076
DX75A	9T18Y1076
DX76C	9T18Y1076
DY77A	9T18Y1077
DY77C	9T18Y1077
DX76A	9T18Y1077
DX77A	9T18Y1077
DX77C	9T18Y1077
DY78A	9T18Y1078
DY78C	9T18Y1078
DX78A	9T18Y1078
DX78C	9T18Y1078
DX79A	9T18Y1079
DY79A	9T18Y1009G01
DY79C	9T18Y1079

Front/back panel

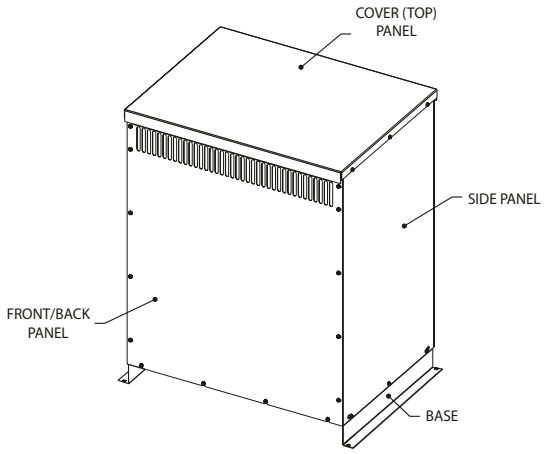
Frame Size	Catalog Number
UY04A	9T18Y1074G03
UX71A	9T18Y1071G03
UX71C	9T18Y1071G03
UX72A	9T18Y1072G03
UX73A	9T18Y1072G03
UX72C	9T18Y1072G03
UX73C	9T18Y1072G03
UY74A	9T18Y1074G03
UX74A	9T18Y1074G03
UY74C	9T18Y1074G03
UX74C	9T18Y1074G03
DY08A	9T18Y1078G03
DY75A	9T18Y1075G03
DY75C	9T18Y1075G03
DX75C	9T18Y1075G03
DY76A	9T18Y1076G03
DY76C	9T18Y1076G03
DX75A	9T18Y1076G03
DX76C	9T18Y1076G03
DY77A	9T18Y1077G03
DY77C	9T18Y1077G03
DX76A	9T18Y1077G03
DX77A	9T18Y1077G03
DX77C	9T18Y1077G03
DY78A	9T18Y1078G03
DY78C	9T18Y1078G03
DX78A	9T18Y1078G03
DX78C	9T18Y1078G03
DX79A	9T18Y1079G03
DY79A	9T18Y1079G03
DY79C	9T18Y1079G03

Side panel

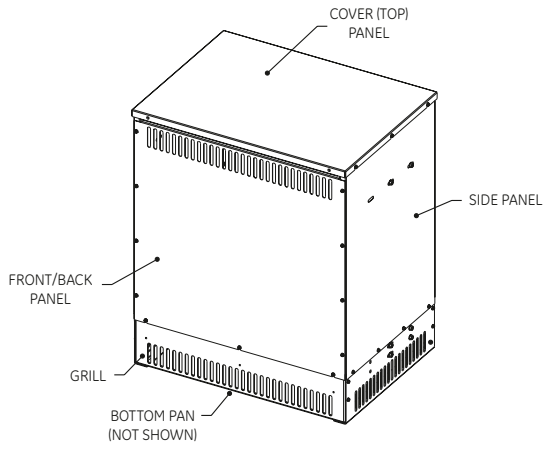
Frame Size	Catalog Number
UY04A	9T18Y1074G04
UX71A	9T18Y1071G04
UX71C	9T18Y1071G04
UX72A	9T18Y1072G04
UX73A	9T18Y1072G04
UX72C	9T18Y1072G04
UX73C	9T18Y1072G04
UY74A	9T18Y1074G04
UX74A	9T18Y1074G04
UY74C	9T18Y1074G04
UX74C	9T18Y1074G04
DY08A	9T18Y1078G04
DY75A	9T18Y1075G04
DY75C	9T18Y1075G04
DX75C	9T18Y1075G04
DY76A	9T18Y1076G04
DY76C	9T18Y1076G04
DX75A	9T18Y1076G04
DX76C	9T18Y1076G04
DY77A	9T18Y1077G04
DY77C	9T18Y1077G04
DX76A	9T18Y1077G04
DX77A	9T18Y1077G04
DX77C	9T18Y1077G04
DY78A	9T18Y1078G04
DY78C	9T18Y1078G04
DX78A	9T18Y1078G04
DX78C	9T18Y1078G04
DX79A	9T18Y1079G04
DY79A	9T18Y1009G04
DY79C	9T18Y1079G04

Cover (top) panel

Frame Size	Catalog Number
UY04A	9T18Y1074G05
UX71A	9T18Y1071G05
UX71C	9T18Y1071G05
UX72A	9T18Y1072G05
UX73A	9T18Y1072G05
UX72C	9T18Y1072G05
UX73C	9T18Y1072G05
UY74A	9T18Y1074G05
UX74A	9T18Y1074G05
UY74C	9T18Y1074G05
UX74C	9T18Y1074G05
DY08A	9T18Y1078G05
DY75A	9T18Y1074G05
DY75C	9T18Y1074G05
DX75C	9T18Y1074G05
DY76A	9T18Y1076G05
DY76C	9T18Y1076G05
DX75A	9T18Y1076G05
DX76C	9T18Y1076G05
DY77A	9T18Y1077G05
DY77C	9T18Y1077G05
DX76A	9T18Y1077G05
DX77A	9T18Y1077G05
DX77C	9T18Y1077G05
DY78A	9T18Y1078G05
DY78C	9T18Y1078G05
DX78A	9T18Y1078G05
DX78C	9T18Y1078G05
DX79A	9T18Y1079G05
DY79A	9T18Y1079G05
DY79C	9T18Y1079G05



ENCLOSURE KIT: 1 COVER + 2 SIDES + 2 FRONTS



ENCLOSURE KIT: 1 COVER + 2 SIDES + 2 FRONTS

This style enclosure is used with the following frames:

Frame Size	Frame Size
UX71A	UY74C
UX71C	UX74C
UX72A	DY75A
UX72C	DY75C
UX73A	DX75A
UX73C	DX75C
UY74A	DY76A
UX74A	DY76C

This style enclosure is used with the following frames:

Frame Size	Frame Size
DX76A	DX79A
DX76C	DX79C
DX77A	YF171
DX77C	YF172
DY77A	YF173
DY77C	YF174
DY78C	YF175
DY78A	YF176
DX78A	YF177
DX78C	-

Wiring diagrams

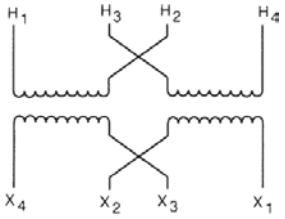


Diagram 1

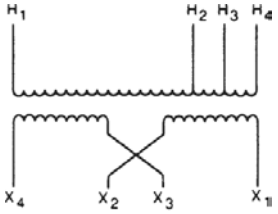


Diagram 2

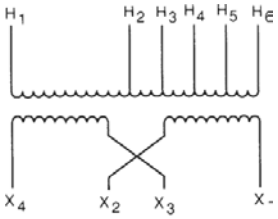


Diagram 3

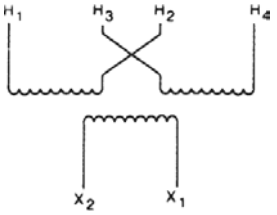


Diagram 4

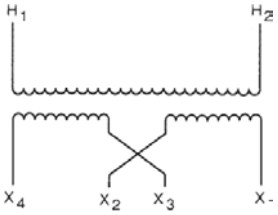


Diagram 5

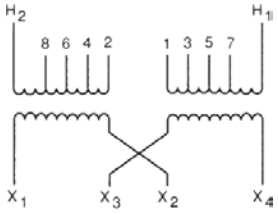


Diagram 6

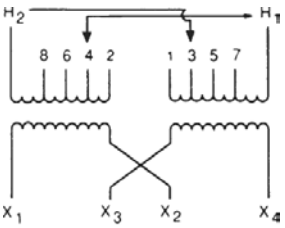


Diagram 7

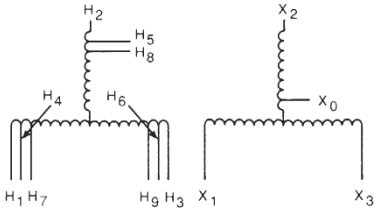


Diagram 8

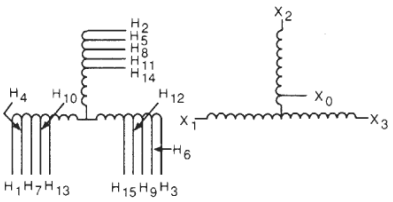


Diagram 9

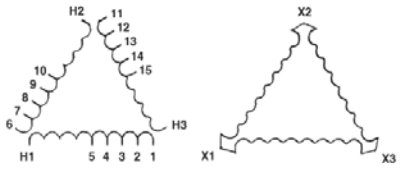


Diagram 10

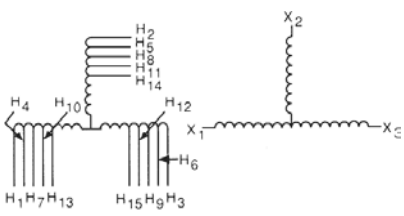


Diagram 11

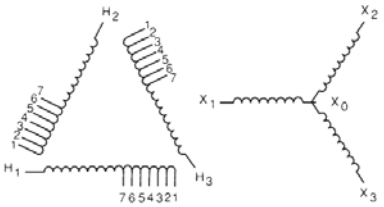


Diagram 12

Wiring diagrams

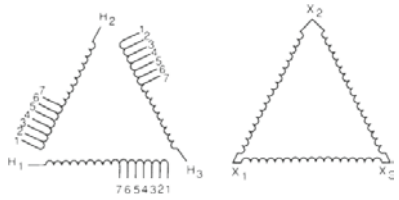


Diagram 13

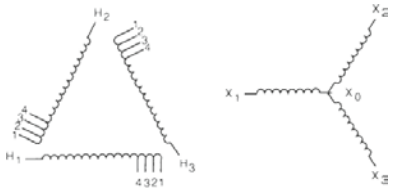


Diagram 14

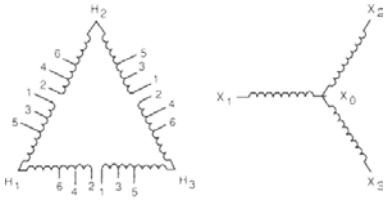


Diagram 15

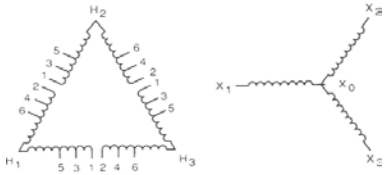


Diagram 16

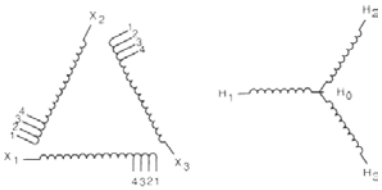


Diagram 17

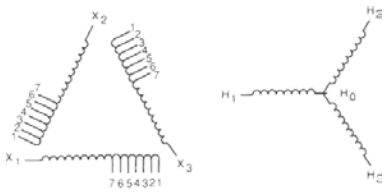


Diagram 18

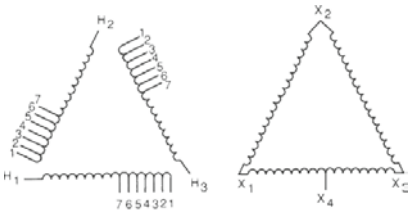


Diagram 19

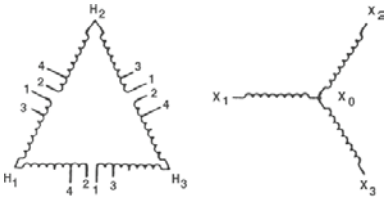


Diagram 20

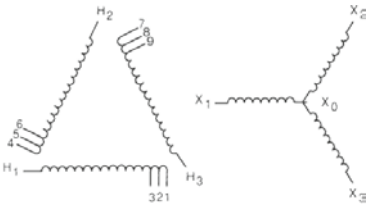


Diagram 21

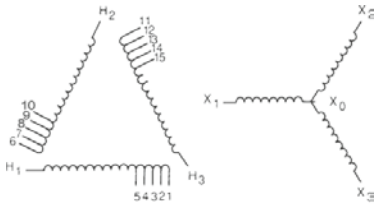


Diagram 22

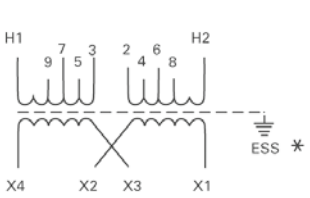


Diagram 23

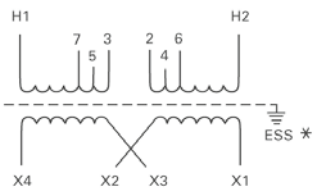


Diagram 24

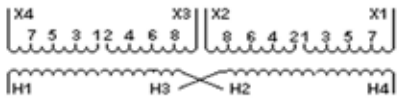


Diagram 25

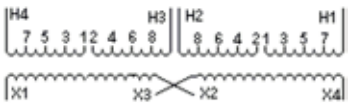


Diagram 26

Dimensions



Single-phase vented QL transformers

Product Weights and Dimensions		Weight (Lb)		Enclosure Dimensions (In)					Mounting Feet Dimensions	
Frame Size	Outline Drawing No.	AL	CU	Height (In.)	Width (In.)	Depth (In.)	Minimum Installation Clearance (4 sides) (in.)	Minimum Installation Clearance (Top) (in.)	Width (in.)	Depth (in.)
YF171	303B406AAP071	320	350	32.1	23.8	18.4	6.0	12.0	–	–
YF172	303B406AAP072	400	500	35.7	31.8	24	6.0	12.0	–	–
XV173	303B406AAP073	500	520	35.7	31.8	24	6.0	12.0	–	–
YF174	303B406AAP074	510	625	39.9	31.8	24	6.0	12.0	–	–
YF175	303B932AAP075	900	1050	37.4	29.5	28.5	6.0	12.0	–	–
YF176	303B932AAP076	1360	1675	45.5	38.5	33	6.0	12.0	–	–
YF177	303B932AAP077	1700	1960	45.5	38.5	33	6.0	12.0	–	–
YX171	303B409CAP071	320	350	18.4	26.2	34.7	6.0	12.0	25.1	15.3
YX172	303B409CAP072	460	510	24	34.3	35.7	6.0	12.0	33.1	21.0
XV173	303B409CAP073	490	520	24	34.3	35.7	6.0	12.0	33.1	21.0
YX174	303B409CAP074	600	750	24	34.3	42.2	6.0	12.0	33.1	21.0
YX175	303B409CAP075	950	N/A	28.5	32.4	37.4	6.0	12.0	30.6	23.0



QL Transformer (Front Panel Removed)

Three-phase, vented QL transformers
Includes General Purpose, K-factor, K-factor Low Noise, Low Noise, Guard I™, Midtapped, Drive Isolation

Product Weights and Dimensions		Enclosure Dimensions			Mounting Feet Dimensions		Weight	
Frame Size	Outline Drawing No.	Width (in.)	Depth (in.)	Height (in.)	Width (in.)	Depth (in.)	Painted (lbs.)	316 Stainless Steel (lbs.)
UX71A	303B111GEUXP71A	18.7	16.9	29.3	21.2	15.1	231	251
UX71C	303B111GEUXP71C	18.7	16.9	29.3	21.2	15.1	230	250
UX72A	303B111GEUXP72A	23.8	18.4	34.7	26.2	16.6	330	350
UX72C	303B111GEUXP72C	23.8	18.4	34.7	26.2	16.6	353	373
UX73A	303B111GEUXP73A	23.8	18.4	34.7	26.2	16.6	444	464
UY72A	303B111GEUYP72A	23.8	18.4	34.7	26.2	16.6	297	317
UY73A	303B111GEUYP73A	23.8	18.4	34.7	26.2	16.6	363	383
UX73C	303B111GEUXP73C	23.8	18.4	34.7	26.2	16.6	480	500
UY74A	303B111GEUYP74A	31.8	24	35.7	34.3	22.3	561	581
UY04C	303B111GEUYP04C	31.8	24	35.7	22.3	34.3	503	523
UY74C	303B111GEUYP74C	31.8	24	35.7	34.3	22.3	661	681
UX74A	303B111GEUXP74A	31.8	24	35.7	34.3	22.3	603	623
UX74C	303B111GEUXP74C	31.8	24	35.7	34.3	22.3	748	768
DY75A	303B111GEDYP75A	31.8	24	42.2	34.3	22.3	680	760
DY75C	303B111GEDYP75C	31.8	24	42.2	34.3	22.3	790	870
DX75A	303B111GEDXP75A	34.8	24	45.8	37.3	22.3	830	850
DX75C	303B111GEDXP75C	31.8	24	42.2	34.3	22.3	900	980
DY76A	303B111GEDYP76A	34.8	24	45.8	37.3	22.3	1030	1050
DY76C	303B111GEDYP76C	34.8	24	45.8	37.3	22.3	1085	1105
DX76A	303B112GEDXP76A	38.4	33	47.4	41.1	32	1250	NA
DX76C	303B111GEDXP76C	34.8	24	45.8	37.3	22.3	1240	1260
DY77A	303B112GEDYP77A	38.4	33	47.4	41.4	32	1450	NA
DY77C	303B112GEDYP77C	38.4	33	47.4	41.4	32	1610	NA
DX77A	303B112GEDXP77A	38.4	33	47.4	41.4	32	1670	NA
DY78A	303B112GEDYP78A	38.4	33	57.1	41.4	32	1670	NA
DX77C	303B112GEDXP77C	38.4	33	47.4	41.4	32	1847	NA
DY78C	303B112GEDYP78C	38.4	33	57.1	41.4	32	1970	NA
DX78A	303B112GEDXP78A	38.4	33	57.1	41.4	32	1985	NA
DX78C	303B112GEDXP78C	38.4	33	57.1	41.4	32	2150	NA
DX79A	303B112GEDXP79A	46.5	37.8	65.7	50.1	37	2900	NA
DX79C	303B112GEDXP79C	46.5	37.8	65.7	50.1	37	3720	NA
DY79A	303B112GEDYP79A	46.8	38.0	65.7	50.1	37.0	2713	NA

Dimensions



QL Transformer
(Front Panel Removed)

Single-phase vented QL transformers

Package Weights and Dimensions		Weight (Lb)		Dimensions (In)		
Frame Size	Outline Drawing No.	AL	CU	Height (in)	Width (in.)	Depth (in.)
YF171	303B406AAP071	362	392	38.13	27	30.25
YF172	303B406AAP072	448	548	41.63	30.25	34.75
XV173	303B406AAP073	548	568	41.63	30.25	34.75
YF174	303B406AAP074	741	673	46	30.25	34.75
YF175	303B932AAP075	925	1075	43.78	30	32
YF176	303B932AAP076	1415	1730	52.88	41.5	47.75
YF177	303B932AAP077	1755	2015	52.88	41.5	47.75
YX171	303B409CAP071	367	397	40.73	30.25	30.5
YX172	303B409CAP072	511	561	41.63	30.25	38.25
XV173	303B409CAP073	541	551	41.63	30.25	38.25
YX174	303B409CAP074	650	800	48.38	30.25	38.25
YX175	303B409CAP075	TBD	NA	TBD	TBD	TBD



QL Transformer
(Front Panel Removed)

Three-phase vented QL transformers

Package Weights and Dimensions		Weight (Lb)				Dimensions (In)		
Frame Size	Outline Drawing No.	AL	AL-SS	CU	CU-SS	Height (in)	Width (in.)	Depth (in.)
UX71A	303B111GEUXP71A	268	288	NA	NA	35.00	25.50	30.50
UX71C	303B111GEUXP71C	NA	NA	267	287	35.00	25.50	30.50
UX72A	303B111GEUXP72A	377	397	NA	NA	40.73	30.25	30.50
UX72C	303B111GEUXP72C	NA	NA	400	420	40.73	30.25	30.50
UX73A	303B111GEUXP73A	491	511	NA	NA	40.73	30.25	30.50
UY72A	303B111GEUYP72A	344	364	NA	NA	40.73	30.25	30.50
UY73A	303B111GEUYP73A	410	430	NA	NA	40.73	30.25	30.5
UX73C	303B111GEUXP73C	NA	NA	527	547	40.73	30.25	30.50
UY74A	303B111GEUYP74A	598	618	NA	NA	35.00	25.50	30.50
UY04C	303B111GEUYP04C	NA	NA	554	574	41.63	30.25	38.25
UY74C	303B111GEUYP74C	NA	NA	712	732	41.63	30.25	38.25
UX74A	303B111GEUXP74A	654	674	NA	NA	41.63	30.25	38.25
UX74C	303B111GEUXP74C	NA	NA	799	819	41.63	30.25	38.25
DY75A	303B111GEDYP75A	730	810	NA	NA	48.38	30.25	38.25
DY75C	303B111GEDYP75C	NA	NA	840	920	48.38	30.25	38.25
DX75A	303B111GEDXP75A	888	NA	NA	908	51.88	30.00	41.00
DX75C	303B111GEDXP75C	NA	NA	950	1030	48.38	30.25	38.25
DY76A	303B111GEDYP76A	1088	1108	NA	NA	51.88	30.00	41.00
DY76C	303B111GEDYP76C	NA	NA	1143	1163	51.88	30.00	41.00
DX76A	303B112GEDXP76A	1305	NA	NA	NA	52.78	41.50	47.75
DX76C	303B111GEDXP76C	NA	NA	1298	1318	51.88	30.00	41.00
DX77A	303B112GEDXP77A	1725	NA	NA	NA	52.78	41.50	47.75
DY77C	303B112GEDYP77C	NA	NA	1665	NA	52.78	41.50	47.75
DX77A	303B112GEDXP77A	1655	NA	NA	NA	40.28	41.50	47.75
DY78A	303B112GEDYP78A	1725	NA	NA	NA	62.48	41.50	47.75
DX77C	303B112GEDXP77C	NA	NA	1902	NA	52.78	41.5	47.7
DY78C	303B112GEDYP78C	NA	NA	2025	NA	62.48	41.50	47.75
DX78A	303B112GEDXP78A	2040	NA	NA	NA	62.48	41.50	47.75
DX78C	303B112GEDXP78C	NA	NA	2205	NA	62.48	41.50	47.75
DX79A	303B112GEDXP79A	2964	NA	NA	NA	72.20	43.00	56.00
DX79C	303B112GEDXP79C	NA	NA	3784	NA	72.20	43.00	56.00
DY79A	303B112GEDYP79A	2777	NA	NA	NA	72.20	43.00	56.00

Dimensions

Servicenter™ transformers

Frame Size	Outline Drawing No.	Height (In.)	Width (In.)	Depth (In.)
16350	303B915AAP005	32.5	10.75	11.12
16600	303B915AAP007	32.5	10.75	11.12
19400	303B915AAP010	35	12.62	12.62
19500	303B915AAP015	35	12.62	12.62
50500	303B915AAP025	44.75	16.75	16
XV371	303B404AAP015	27.3	27.4	16.9
XV372	303B404AAP022	32.2	34.5	24
XV372	303B404AAP030	32.2	34.5	24
Y371C	303B404AAP015	27.3	27.4	16.9
Y372C	303B404AAP022	32.2	34.5	24
Y372C	303B404AAP030	32.2	34.5	24

Guard II™ transformers

Frame Size	Outline Drawing No.	Height (In.)	Width (In.)	Depth (In.)
XV371	303B403AAP071	34.5	18.7	16.9
XV372	303B403AAP072	41.3	23.8	18.4
XV373	303B403AAP073	41.3	23.8	18.4
XV374	303B403AAP074	44.8	31.8	24
XV375	303B403AAP075	49.1	31.8	24

Guard III™ harmonic mitigating transformers

Frame Size	Outline Drawing No.	Height (In.)	Width (In.)	Depth (In.)
H371C	303B431SLP071	32.3	23.8	18.4
H372C	303B431SLP072	35.7	31.8	24
H373C	303B431SLP073	35.7	31.8	24
H374C	303B431SLP074	39.9	31.8	24
H375C	303B931SLP075	45.5	38.6	33
H376C	303B931SLP076	45.4	38.5	33
YF378	303B931SLP078	57.0	38.5	33

TENV transformers

Frame Size	Outline Drawing No.	Height (In.)	Width (In.)	Depth (In.)
XV372	303B405AAP072	41.3	23.8	18.4
XV373	303B405AAP073	41.3	23.8	18.4
XV374	303B405AAP074	44.8	31.8	24
XV375	303B405AAP075	49.1	31.8	24

QMS transformers

Frame Size	Outline Drawing No.	Height (In.)	Width (In.)	Depth (In.)
16350	303B923AAP005	14.5	10.62	11
16400	303B923AAP005	14.5	10.62	11
16450	303B923AAP005	14.5	10.62	11
16600	303B923AAP007	17.06	10.62	11
19400	303B923AAP010	17.06	12.5	12.5
19450	303B923AAP010	17.06	12.5	12.5
19500	303B915AAP015	35	12.62	12.62
1619	303B922AAP001	14.50	10.75	11.12
1620	303B922AAP001	14.50	10.75	11.12
1921	303B922AAP003	17.12	12.62	12.75
1923	303B922AAP004	18.81	14.75	14.53
50500	303B915AAP025	44.75	16.75	16

QB transformers

Frame Size	Outline Drawing No.	Height (In.)	Width (In.)	Depth (In.)
6100	303B920AAP001	6.38	5.12	3.25
6150	303B920AAP001	6.38	5.12	3.25
6200	303B920AAP001	6.38	5.12	3.25
8175	303B920AAP002	7.38	6.12	4.25
8200	303B920AAP002	7.38	6.12	4.25
10200	303B920AAP003	8.38	6.88	4.88
10225	303B920AAP003	8.38	6.88	4.88
12200	303B920AAP004	9.62	7.88	5.5
12225	303B920AAP004	9.62	7.88	5.5
12275	303B920AAP004	9.62	7.88	5.5
12300	303B920AAP004	9.62	7.88	5.5
14200	303B920AAP005	11.12	9.38	6.72
14225	303B920AAP005	11.12	9.38	6.72
14250	303B920AAP005	11.12	9.38	6.72
14300	303B920AAP005	11.12	9.38	6.72
14350	303B920AAP005	11.12	9.38	6.72
14400	303B920AAP005	11.12	9.38	6.72

General purpose encapsulated

Single-phase NEMA 3R

.050 - 3 kVA Indoor/Outdoor Type QB UL Listed C-UL Listed

Input Voltage	Output Voltage	kVA	Frequency (Hz)	Taps	Wiring Diagram No.[1]	Weight (Lbs)	Frame Size	Catalog Number
240 x 480 Volts, 480 Volts	120/240 Volts	0.05	60 Hz	No Taps	1	6	6100	9T51B0002
240 x 480 Volts		0.05	50 Hz	No Taps	1	6	6100	9T51B0502
240 x 480 Volts, 480 Volts		0.075	60 Hz	No Taps	1	6	6200	9T51B0003
240 x 480 Volts		0.075	50 Hz	No Taps	1	6	6200	9T51B0503
240 x 480 Volts, 480 Volts		0.1	60 Hz	No Taps	1	6	6200	9T51B0004
240 x 480 Volts		0.1	50 Hz	No Taps	1	6	6200	9T51B0504
240 x 480 Volts, 480 Volts		0.15	60 Hz	No Taps	1	10	8175	9T51B0005
240 x 480 Volts		0.15	50 Hz	No Taps	1	10	8175	9T51B0505
240 x 480 Volts, 480 Volts		0.25	60 Hz	No Taps	1	10	8175	9T51B0007
240 x 480 Volts		0.25	50 Hz	No Taps	1	10	8200	9T51B0507
240 x 480 Volts, 480 Volts		0.5	60 Hz	No Taps	1	16	10200	9T51B0008
240 x 480 Volts		0.5	50 Hz	No Taps	1	20	10225	9T51B0508
240 x 480 Volts, 480 Volts		0.75	60 Hz	No Taps	1	25	12200	9T51B0009
240 x 480 Volts		0.75	50 Hz	No Taps	1	25	12225	9T51B0509
240 x 480 Volts, 480 Volts		1	60 Hz	No Taps	1	25	12225	9T51B0010
240 x 480 Volts		1	50 Hz	No Taps	1	30	12275	9T51B0510
240 x 480 Volts, 480 Volts		1.5	60 Hz	No Taps	1	40	14200	9T51B0011
240 x 480 Volts		1.5	50 Hz	No Taps	1	40	14225	9T51B0511
240 x 480 Volts, 480 Volts		2	60 Hz	No Taps	1	45	14250	9T51B0012
240 x 480 Volts		2	50 Hz	No Taps	1	50	14300	9T51B0512
240 x 480 Volts, 480 Volts		3	60 Hz	No Taps	1	55	14350	9T51B0013
240 x 480 Volts		3	50 Hz	No Taps	1	60	14400	9T51B0513
480 Volts	120/240 Volts	0.5	50 Hz	(-2: 5.0%)	2	20	10225	9T51B0548
		0.75	50 Hz	(-2: 5.0%)	2	25	12200	9T51B0549
		1	60 Hz	(-2: 5.0%)	2	25	12225	9T51B0050
		1	50 Hz	(-2: 5.0%)	2	30	12275	9T51B0550
		1.5	60 Hz	(-2: 5.0%)	2	40	14200	9T51B0051
		1.5	50 Hz	(-2: 5.0%)	2	40	14225	9T51B0551
		2	60 Hz	(-2: 5.0%)	2	45	14250	9T51B0052
		2	50 Hz	(-2: 5.0%)	2	50	14300	9T51B0552
		3	60 Hz	(-2: 5.0%)	2	55	14350	9T51B0053
		3	60 Hz	(+2, -2: 2.5%)	3	55	14350	9T51B0135
		3	50 Hz	(-2: 5.0%)	2	60	14400	9T51B0553
600 Volts	120/240 Volts	0.05	60 Hz	No Taps	5	6	6100	9T51B0082
		0.075	60 Hz	No Taps	5	6	6200	9T51B0083
		0.1	60 Hz	No Taps	5	6	6200	9T51B0084
		0.1	50 Hz	No Taps	5	6	6200	9T51B0584
		0.15	60 Hz	No Taps	5	10	8175	9T51B0085
		0.25	60 Hz	No Taps	5	10	8175	9T51B0087
		0.25	50 Hz	No Taps	5	10	8200	9T51B0587
		0.5	60 Hz	No Taps	5	16	10200	9T51B0088
		0.5	50 Hz	(-2: 5.0%)	2	20	10225	9T51B0568
		0.75	60 Hz	No Taps	5	25	12200	9T51B0089
		0.75	50 Hz	(-2: 5.0%)	2	25	12200	9T51B0569
		1	60 Hz	(-2: 5.0%)	2	25	12225	9T51B0070
		1	60 Hz	No Taps	5	25	12225	9T51B0090
		1	50 Hz	(-2: 5.0%)	2	30	12275	9T51B0570
		1.5	60 Hz	(-2: 5.0%)	2	40	14200	9T51B0071
		1.5	60 Hz	No Taps	5	40	14200	9T51B0091
		1.5	50 Hz	(-2: 5.0%)	2	40	14225	9T51B0571
		2	60 Hz	(-2: 5.0%)	2	45	14250	9T51B0072
		2	60 Hz	No Taps	5	45	14250	9T51B0092
		2	50 Hz	(-2: 5.0%)	2	50	14300	9T51B0572
		2	50 Hz	No Taps	-	50	14300	9T51B0592
		3	60 Hz	(-2: 5.0%)	2	55	14350	9T51B0073
		3	60 Hz	No Taps	5	55	14350	9T51B0093
		3	50 Hz	(-2: 5.0%)	2	60	14400	9T51B0573
		3	50 Hz	No Taps	-	60	14400	9T51B0593

[1] See page 10-45 and 10-46 for wiring diagrams.

General purpose encapsulated

Single-phase NEMA 3R



.050 - 3 kVA Indoor/ Outdoor Type QB UL Listed C-UL Listed

.050 - 3 kVA Indoor/Outdoor Type QB UL Listed C-UL Listed

Input Voltage	Output Voltage	kVA	Frequency (Hz)	Taps	Wiring Diagram No.[1]	Weight (Lbs)	Frame Size	Catalog Number
120 x 240 Volts	120/240 Volts	0.05	60 Hz	No Taps	1	6	6100	9T51B0022
		0.1	60 Hz	No Taps	1	6	6200	9T51B0024
		0.15	60 Hz	No Taps	1	10	8175	9T51B0025
		0.25	60 Hz	No Taps	1	10	8175	9T51B0027
		0.5	60 Hz	No Taps	1	16	10200	9T51B0028
		0.75	60 Hz	No Taps	1	25	12200	9T51B0029
		1	60 Hz	No Taps	1	25	12225	9T51B0030
		1.5	60 Hz	No Taps	1	40	14200	9T51B0031
		2	60 Hz	No Taps	1	45	14250	9T51B0032
		3	60 Hz	No Taps	1	60	14400	9T51B0033
208 Volts	120/240 Volts	0.5	60 Hz	No Taps	4	16	10200	9T51B0158
		0.75	60 Hz	No Taps	4	25	12200	9T51B0159
		1	60 Hz	No Taps	4	25	12225	9T51B0160
		2	60 Hz	No Taps	4	45	14250	9T51B0156
		3	60 Hz	No Taps	4	55	14350	9T51B0157

.050 - 3 kVA Indoor/Outdoor Type QB UL Listed C-UL Listed

Input Voltage	Output Voltage	kVA	Frequency (Hz)	Taps	Wiring Diagram No.[1]	Weight (Lbs)	Frame Size	Catalog Number
277 Volts	120/240 Volts	0.25	60 Hz	(-2: 5.1%)	2	10	8175	9T51B0187
		0.5	60 Hz	(-2: 5.1%)	2	16	10200	9T51B0188
		0.75	60 Hz	(-2: 5.1%)	2	25	12200	9T51B0189
		1	60 Hz	(-2: 5.1%)	2	30	12275	9T51B0190
		1.5	60 Hz	(-2: 5.1%)	2	40	14200	9T51B0191
		2	60 Hz	(-2: 5.1%)	2	45	14250	9T51B0192
		3	60 Hz	(-2: 5.1%)	2	55	14350	9T51B0193
380/400/416 Volts	120/240 Volts	0.05	50 Hz	No Taps	2	6	6150	9T51B0162
		0.15	50 Hz	No Taps	2	10	8175	9T51B0165
		0.25	50 Hz	No Taps	2	10	8200	9T51B0167
		0.5	50 Hz	No Taps	2	20	10225	9T51B0168
		0.75	50 Hz	No Taps	2	25	12200	9T51B0169
		1	50 Hz	No Taps	2	30	12275	9T51B0170
		1.5	50 Hz	No Taps	2	40	14225	9T51B0171
		2	50 Hz	No Taps	2	50	14300	9T51B0172
		3	50 Hz	No Taps	2	60	14400	9T51B0173

[1] See page 10-45 and 10-46 for wiring diagrams.

General purpose encapsulated

Single-phase NEMA 3R



5 - 25 kVA Indoor/Outdoor Type QMS 115°C Rise UL Listed C-UL Listed

5 - 25 kVA Indoor/Outdoor Type QMS 115°C Rise UL Listed C-UL Listed

Input Voltage	Output Voltage	kVA	Frequency (Hz)	Taps	Wiring Diagram No.[1]	Weight (Lbs)	Frame Size	Catalog Number
120 x 240 Volts	120/240 Volts	5	60 Hz	No Taps	1	103	16350	9T21B1001G02
		7.5	60 Hz	No Taps	1	147	16600	9T21B1002G02
		10	60 Hz	No Taps	1	198	19400	9T21B1003G02
		10	60 Hz	No Taps	1	198	19400	9T21B1054G02
		15	60 Hz	No Taps	1	220	19500	9T21B9101
		15	60 Hz	No Taps	1	233	19550	9T21B9131
		25	60 Hz	No Taps	1	233	19550	9T21B9102
208 Volts	120/240 Volts	5	60 Hz	No Taps	4	103	16350	9T21B1028G02
		7.5	60 Hz	No Taps	4	147	16600	9T21B1029G02
		10	60 Hz	No Taps	4	198	19400	9T21B1030G02
		15	60 Hz	No Taps	4	220	19500	9T21B9119
		25	60 Hz	No Taps	4	388	50500	9T21B9120

[1] See page 10-45 and 10-46 for wiring diagrams.
[2] For Outdoor NEMA 3R Enclosure add suffix G62 to Catalog Number.

5 - 25 kVA Indoor/Outdoor Type QMS 115°C Rise UL Listed C-UL Listed

Input Voltage	Output Voltage	kVA	Frequency (Hz)	Taps	Wiring Diagram No.[1]	Weight (Lbs)	Frame Size	Catalog Number
277 Volts	120/240 Volts	5	60 Hz	(-2: 5.1%)	2	103	16350	9T21B1046G02
		5	60 Hz	(-2: 2.5%)	2	103	16350	9T21B1265G02
		7.5	60 Hz	(-2: 5.1%)	2	147	16600	9T21B1047G02
		10	60 Hz	(-2: 5.1%)	2	198	19400	9T21B1048G02
		10	60 Hz	(-2 2.5%)	2	198	19400	9T21B1266G02
		15	60 Hz	(-2: 5.1%)	2	220	19500	9T21B9143
		25	60 Hz	(-2: 4.7%)	2	388	50500	9T21B9144

[1] See page 10-45 and 10-46 for wiring diagrams.

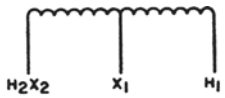
5 - 25 kVA Indoor/Outdoor Type QMS 115°C Rise UL Listed C-UL Listed

Input Voltage	Output Voltage	kVA	Frequency (Hz)	Taps	Wiring Diagram No.[1]	Weight (Lbs)	Frame Size	Catalog Number
240 x 480 Volts	120/240 Volts	5	60	No Taps	1	103	16350	9T21B1004G02
		5	50	No Taps	1	115	16400	9T21B1055G02
		7.5	60	No Taps	1	147	16600	9T21B1005G02
		7.5	50	No Taps	1	174	16600	9T21B1056G02
		10	60	No Taps	1	198	19400	9T21B1006G02
		10	50	No Taps	1	198	19400	9T21B1057G02
		15	60	No Taps	1	220	19500	9T21B9103
		15	50	No Taps	1	233	19550	9T21B9133
		25	60	No Taps	1	388	50500	9T21B9104
		25	50	No Taps	1	428	50600	9T21B9134
480 Volts	120/240 Volts	5	60	(-2: 5.0%)	2	103	16350	9T21B1007G02
		5	60	(+2, -2: 2.5%)	3	103	16350	9T21B1013G02
		7.5	60	(-2: 5.0%)	2	147	16600	9T21B1008G02
		7.5	60	(+2, -2: 2.5%)	3	147	16600	9T21B1014G02
		10	60	(-2: 4.9%)	2	198	19400	9T21B1009G02
		10	60	(+2, -2: 2.6%)	3	198	19400	9T21B1015G02
		15	60	(-2: 5.0%)	2	220	19500	9T21B9105
		15	60	(+2, -2: 2.5%)	3	220	19500	9T21B9109
		25	60	(-2: 5.0%)	2	388	50500	9T21B9106
		25	60	(+2, -2: 2.5%)	3	388	50500	9T21B9110
600 Volts	120/240 Volts	5	60	No Taps	5	103	16350	9T21B1016G02
		5	60	(-2: 5.0%)	2	103	16350	9T21B1019G02
		5	60	(+2, -2: 2.5%)	-	107	16350	9T21B1025G02
		7.5	60	(-2: 5.0%)	2	147	16600	9T21B1020G02
		10	60	(-2: 4.9%)	2	198	19400	9T21B1021G02
		15	60	No Taps	5	220	19500	9T21B9111
		15	60	(-2: 4.8%)	2	220	19500	9T21B9113
		25	60	(-2: 5.0%)	2	388	50500	9T21B9114

[1] See page 10-45 and 10-46 for wiring diagrams.

Buck-Boost

Encapsulated Autotransformers For bucking and boosting voltage

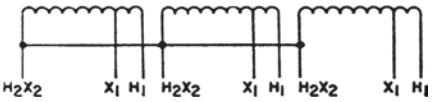


Wiring Diagram: Single-Phase

Application

For General Lighting and Power Service

Autotransformers are more economical than isolation transformers designed to carry the same load. Within their voltage limitations, they will perform the same function as transformers with the exception of insulating two circuits. You can use these autotransformers to obtain 120 Volts from a 240 Volt circuit, to derive a neutral on a 240 Volt, two-wire circuit, or to balance a 120/240 Volt, three-wire circuit. They also may be used in banks on polyphase circuits. See footnotes below.



Wiring Diagram: Three-Phase

For Bucking or Boosting Voltage of Single-Phase Indoor/Outdoor Type QB 60 Hz UL Listed CSA Certified[1]

Input Voltage	Output Voltage	kVA[2]	Height (in)	Width (in)	Depth (in)	Approx. Net Weight (Lbs.)	Frame Size	Catalog Number
240/120 Volts	120 or 240/120 Volts (Three-Wire)	0.5	7.38	6.13	4.25	10	8175	9T51B0136
		0.75	8.38	6.88	4.88	16	10200	9T51B0137
		1	8.38	6.88	4.88	16	10200	9T51B0138
		1.5	9.63	7.88	5.5	25	12200	9T51B0139
		2	9.63	7.88	5.5	25	12225	9T51B0140
		3	11.13	9.38	6.75	40	14200	9T51B0141
		5	11.13	9.38	6.75	60	14400	9T51B0142

[1] Through 3 kVA

For Bucking or Boosting Voltage of Single-Phase Indoor/Outdoor Type QMS 60 Hz UL Listed CSA Certified

Input Voltage	Output Voltage	kVA[2]	Height (in)	Width (in)	Depth (in)	Approx. Net Weight (Lbs.)	Frame Size	Catalog Number
240/120 Volts	120 or 240/120 Volts (Three-Wire)	10	14.50	10.62	11.00	103	16350	9T21B4553G02
		15	17.06	10.62	11.00	147	16600	9T21B9201
		25	17.06	12.50	12.50	220	19500	9T21B9202

[2] kVA output at 120 Volts, two-wire, or allowable unbalance at 240/120 Volts, three-wire.

For Boosting Voltage of Three-Phase Indoor/Outdoor Type QB 60 Hz UL Listed

Input Voltage	Output Voltage	kVA[2]	Height (in)	Width (in)	Depth (in)	Approx. Net Weight (Lbs.)	Frame Size	Catalog Number
208Y/120 Volts	230/133 Volts	6	7.38	6.13	4.25	10	8175	9T51B0143
		9	8.38	6.88	4.88	16	10200	9T51B0144
		15	8.38	6.88	4.88	20	10225	9T51B0145
		30	9.63	7.88	5.50	30	12275	9T51B0146
		45	11.13	9.38	6.75	40	14200	9T51B0147
		75	11.13	9.38	6.75	60	14400	9T51B0148
		6	7.38	6.13	4.25	10	8175	9T51B0150
		15	9.63	7.88	5.50	25	12200	9T51B0152
		30	11.13	9.38	6.75	40	14200	9T51B0153

[3] Bank of three single-phase autotransformers to be connected wye. Dimensions and weights are for each unit in bank. Each single autotransformer is rated 1/3 of the bank kVA rating. Order three single-phase transformers for each three-phase bank.

Conversion Chart

Decimal	Fraction
.13	1/8
.38	3/8
.63	5/8
.88	7/8

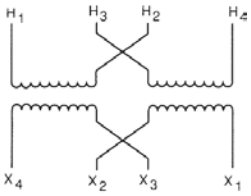
Buck-Boost

Encapsulated

For bucking and boosting voltage



Indoor/Outdoor Type QB Transformer; Single-Phase



Wiring Diagram for Low Voltage Loads

Product Description

Buck boost transformers are small, single-phase, dry type distribution transformers designed and shipped as insulating/isolating transformers. They have a dual voltage primary and a dual voltage secondary. These transformers can be connected for a wide range of voltage combinations. The most common use is to buck (lower) or boost (raise) the supply voltage a small amount, usually 5 to 27%. Buck boost transformers comply with NEC Article 210-9, Exception 1, when field connected as an autotransformer.

ABB bucking and boosting transformers provide an economical and convenient means for bucking or boosting voltage, usually no more than ±20% on single- and three-phase circuits. They are compact, relatively light in weight, and can be easily installed for indoor or outdoor service.

Buck-boost transformers are employed primarily for boosting single-and three-phase circuits by connecting them as autotransformers. When connected as an autotransformer, only the low-voltage, high-current capacity secondary windings are required to carry the load. Because this load is only transformed over a small change in voltage, the buck-boost transformer can handle loads many times its nameplate kVA rating.

The transformers with series-multiple 12/24, 24/48, or 16/32 Volt secondary windings are suitable for a wide variety of applications. Two or more units can be used in various combinations to obtain many other special voltages.

Advantages

- Efficient insulating materials permit compact size and light weight
- Dual voltage primary and dual voltage secondary formaximum versatility
- Large, front-accessible wiring compartment permits fast, easy wiring
- Convenient conduit knockouts located on side, bottom and back of wiring compartment
- ABB Buck-Boost Transformer Selector makes selection fast and easy
- Many ABB buck-boost transformers fit competitor mounting footprints
- Indoor or outdoor service

Key Features

- Convenient and least expensive method of matching line voltage with equipment voltage
- More efficient than equivalent isolation transformers
- Ability to handle loads up to 20 times nameplate rating when connected as an autotransformer
- Ideal for changing line voltages by small amounts
- Primary voltages include 120V, 240V and 480V
- Secondary voltages include 12V, 16V, 24V, 32V, 48V
- UL and cUL Listed
- Qualified to the seismic requirements of IEEE-693-1997 and IBC-2018

Applications

- International voltage adaptation
- Commercial and industrial air conditioning
- Heating systems
- Induction motors
- Voltage line drop correction
- Landscape lighting
- Low-voltage lighting

Efficient operation of electrical equipment requires that line voltage be at or near the nameplate rating of the equipment. In order to match available line voltage (whether it be too high or low) with equipment voltage, buck-boost transformers provide the most convenient and least expensive method.

Do not use buck-boost transformers to solve a fluctuating voltage problem. They should be used to compensate for high- or low voltage conditions only when the available line voltage is reasonably constant.

Buck-Boost

Encapsulated

For bucking and boosting voltage



Single-Phase Indoor/ Outdoor Type QB 60 Hz UL Listed C-UL Listed

Single-Phase Indoor/Outdoor Type QB 60 Hz UL Listed C-UL Listed

Input Voltage	Output Voltage	kVA	Height (in)	Width (in)	Depth (in)	Approx. Net Weight (Lbs.)	Frame Size	Catalog Number
120/240 Volts	12/24 Volts	0.05	6.38	5.12	3.25	6	6100	9T51B0102
		0.075	6.38	5.12	3.25	6	6200	9T51B0103
		0.1	6.38	5.12	3.25	6	6200	9T51B0104
		0.15	7.38	6.12	4.25	10	8175	9T51B0105
		0.25	7.38	6.12	4.25	10	8175	9T51B0107
		0.5	8.38	6.88	4.88	20	10225	9T51B0108
		0.75	9.62	7.88	5.50	25	12200	9T51B0109
		1	9.62	7.88	5.50	25	12225	9T51B0110
		1.5	11.12	9.38	6.72	40	14200	9T51B0111
		2	11.12	9.38	6.72	50	14300	9T51B0112
		3	-	9.38	6.72	55	14350	9T51B0113
120/240 Volts	16/32 Volts	0.05	6.38	5.12	3.25	6	6100	9T51B0122
		0.075	6.38	5.12	3.25	6	6200	9T51B0123
		0.1	6.38	5.12	3.25	6	6200	9T51B0124
		0.15	7.38	6.12	4.25	10	8175	9T51B0125
		0.25	7.38	6.12	4.25	10	8175	9T51B0127
		0.5	8.38	6.88	4.88	20	10225	9T51B0128
		0.75	9.62	7.88	5.50	25	12200	9T51B0129
		1	9.62	7.88	5.50	30	12300	9T51B0130
		1.5	11.12	9.38	6.72	40	14200	9T51B0131
		2	11.12	9.38	6.72	50	14300	9T51B0132
		3	-	9.38	6.72	55	14350	9T51B0133
240/480 Volts	24/48 Volts	0.05	6.38	5.12	3.25	6	6100	9T51B0202
		0.075	6.38	5.12	3.25	6	6200	9T51B0203
		0.1	6.38	5.12	3.25	6	6200	9T51B0204
		0.15	7.38	6.12	4.25	10	8175	9T51B0205
		0.25	7.38	6.12	4.25	10	8175	9T51B0207
		0.5	8.38	6.88	4.88	20	10225	9T51B0208
		0.75	9.62	7.88	5.50	25	12200	9T51B0209
		1	9.62	7.88	5.50	30	12275	9T51B0210
		1.5	11.12	9.38	6.72	40	14200	9T51B0211
		2	11.12	9.38	6.72	50	14300	9T51B0212
		3	11.12	9.38	6.72	55	14350	9T51B0213

Single-Phase Indoor/Outdoor Type QMS 60 Hz UL Listed C-UL Listed

Input Voltage	Output Voltage	kVA	Height (in)	Width (in)	Depth (in)	Approx. Net Weight (Lbs.)	Frame Size	Catalog Number
120/240 Volts	12/24 Volts	5	14.5	10.62	11	103	16350	9T21B1037G02
	16/32 Volts	5	14.5	10.62	11	115	16400	9T21B1040G02

Single-Phase Indoor/Outdoor Type QMS 50 Hz UL Listed C-UL Listed

Input Voltage	Output Voltage	kVA	Height (in)	Width (in)	Depth (in)	Approx. Net Weight (Lbs.)	Frame Size	Catalog Number
120/240 Volts	12/24 Volts	5	14.5	10.62	11	115	16400	9T21B1061G02
	16/32 Volts	5	14.5	10.62	11	127	16450	9T21B1064G02

NOTE: In addition to bucking or boosting low circuit voltages to related value, these transformers can be used as two winding transformers to supply the rated nameplate low voltages, 12 to 48 Volts, two-wire or 12/24 to 24/48 Volts, three-wire. Also available in 50/60 Hz ratings.

Open core and coil transformers

Machine tool and control power



Core and Coil Transformer Leads Out Connection



Core and Coil Transformer Terminal Block

Product Description
Core and coil transformers for machine tools are used to provide voltage to control devices in applications where regulation and minimum space are important. Welded cores provide the highest quality electrical performance and quiet operation.

Standards: Type IP transformers conform to NEMA ST20

Listings: UL listed under UL-5085, File E323774
CSA Certified under C22.2, Number 66, File E323774

Insulation Classes: 150VA and below: 105°C insulation class, 55°C Rise
200VA and above: 185°C (NEMA) 180°C (UL) insulation class, 115°C Rise

Frequency: 60 Hz standard; 50 Hz optional.

Voltage Regulation: All designs 2.0 kVA and below are compensated for voltage drop. Compensation ranges from 10% in the smallest rating to 3% for the largest. All machine tool designs meet or exceed NMTBA regulation requirements.

Series-Multiple Secondary Connections: Transformers with 120/240 V secondaries (series-multiple) may be connected for 120 V, 240 V or 240/120 V three-wire. Jumpers are provided.

Overcurrent Protection: Type IP transformers are low impedance transformers that require overcurrent protection for most applications. They provide for optional integral primary and/or secondary fusing.

Mounting Dimensions: Type IP transformers are lightweight, small, and designed for minimum mounting dimensions. Many units will fit competitors mounting footprints.

Advantages
- Finger-safe terminals offer added protection and safety
- Pressure plate terminals ensure secure connections
- Wide variety of fusing options. See page 10-60.

Key Features—Terminal Block
- Rugged, high-impact plastic terminal block
- Full head #8 brass screws assure quick, easy terminations with maximum connection integrity
- Copper windings
- Flexible design allows input or output voltage to match any application
- CUL, CE, UL approvals
- Available fuse-blocks offer simple, low-cost fusing

Open core and coil transformers

Machine tool applications

Single-phase, fully-encapsulated design



60 Hz - Terminal Block

60 Hz Terminal Block

Input Voltage	Output Voltage	kVA	Wiring Diagram No.[1]	Approx. Net Weight (Lbs.)	Frame Size	Catalog Number
220x440, 230x460, 240x480 Volts	110, 115, 120 Volts	0.05	1	2.4	6100	9T58K0042
		0.08	1	2.8	6125	9T58K0043
		0.10	1	3.6	8100	9T58K0044
		0.15	1	5.1	8150	9T58K0045
		0.20	1	5.8	8175	9T58K0046
		0.25	1	6.5	8200	9T58K0047
		0.30	1	7.6	8250	9T58K0048
		0.38	1	7.6	8250	9T58K0049
		0.50	1	10.7	10225	9T58K0050
		0.75	1	12	12225	9T58K0051
		1	1	16.1	12300	9T58K0052
		2	1	26.7	14225	9T58K0053
		2	1	32.7	14300	9T58K0054
		3	1	47.4	14475	9T58K0055

50/60 Hz Terminal Block

Input Voltage	Output Voltage	kVA	Wiring Diagram No.[1]	Approx. Net Weight (Lbs.)	Frame Size	Catalog Number
230/460/575 Volts	115/95 Volts	0.05	2	3.1	6150	9T58K0062
		0.08	2	3.6	8100	9T58K0063
		0.10	2	5.1	8150	9T58K0064
		0.15	2	6.5	8200	9T58K0065
		0.20	2	6.5	8200	9T58K0066
		0.25	2	7.6	8250	9T58K0067
		0.30	2	10.7	10225	9T58K0068
		0.38	2	10.7	10225	9T58K0069
		0.50	2	10.7	10225	9T58K0070
		0.75	2	16.1	12300	9T58K0071
		1	2	26.7	14225	9T58K0072
		1.5	2	32.7	14300	9T58K0073
		2	2	47.4	14475	9T58K0074
208/277/380 Volts	115/95 Volts	0.05	3	3.1	6150	9T58K0082
		0.08	3	3.6	8100	9T58K0083
		0.10	3	5.1	8150	9T58K0084
		0.15	3	6.5	8200	9T58K0085
		0.20	3	6.5	8200	9T58K0086
		0.25	3	7.6	8250	9T58K0087
		0.30	3	10.7	10225	9T58K0088
		0.38	3	10.7	10225	9T58K0089
		0.50	3	10.7	10225	9T58K0090
		0.75	3	16.1	12300	9T58K0091
		1	3	26.7	14225	9T58K0092
		1.5	3	32.7	14300	9T58K0093
		2	3	47.4	14475	9T58K0094

[1] See page 10-61 for wiring diagrams.



Factory- or Field-Installed Options

Secondary Fusing—Factory- or field-installed secondary fuse clips are available. They are restricted to units with terminal strips and a single secondary voltage or secondary with one tap.

Dual Primary and Secondary Fusing—Factory- or field-installed dual primary and secondary fuse clips are available on all units.

Open core and coil transformers

Control

Single-phase, fully-encapsulated design



60 Hz - Terminal Block

60 Hz Terminal Block

Input Voltage	Output Voltage	kVA	Wiring Diagram No.[1]	Approx. Net Weight (Lbs.)	Frame Size	Catalog Number
240x480 Volts	120/240 Volts	0.05	4	2.4	6100	9T58K2802
		0.08	4	2.8	6125	9T58K2803
		0.10	4	3.6	8100	9T58K2804
		0.15	4	5.1	8150	9T58K2805
		0.20	4	5.8	8175	9T58K2806
		0.25	4	6.5	8200	9T58K2807
		0.30	4	6.5	8200	9T58K2808
		0.38	4	7.6	8250	9T58K2809
		0.50	4	10.7	10225	9T58K2810
		0.75	4	12	12225	9T58K2811
		1	4	16.1	12300	9T58K2812
		1.5	4	26.7	14225	9T58K2813
		2	4	32.7	14300	9T58K2814
		3	4	47.4	14475	9T58K2815
600 Volts	120/240 Volts	0.08	5	2.8	6125	9T58K2823
		0.10	5	3.6	8100	9T58K2824
		0.20	5	5.8	8175	9T58K2826
		0.25	5	6.5	8200	9T58K2827
		0.30	5	6.5	8200	9T58K2828
		0.50	5	10.7	10225	9T58K2830
		0.75	5	12	12225	9T58K2831
		1	5	16.1	12300	9T58K2832
		1.5	5	26.7	14225	9T58K2833
		2	5	32.7	14300	9T58K2834
		3	5	47.4	14475	9T58K2835
120x240 Volts	120/240 Volts	0.10	6	3.6	8100	9T58K2907
		0.20	6	5.8	8175	9T58K2909
		0.30	6	6.5	8200	9T58K2911
		0.50	6	10.7	10225	9T58K2913
		0.75	6	12	12225	9T58K2914
		1	6	16.1	12300	9T58K2915
		2	6	32.7	14300	9T58K2917
		3	6	47.4	14475	9T58K2918

60 Hz Terminal Block

Input Voltage	Output Voltage	kVA	Wiring Diagram No.[1]	Approx. Net Weight (Lbs.)	Frame Size	Catalog Number
120 x 240 Volts	12/24 Volts	0.05	7	2.4	6100	9T58K2873
		0.075	7	2.8	6125	9T58K2874
		0.10	7	3.6	8100	9T58K2875
		0.15	7	5.1	8150	9T58K2876
		0.20	7	5.8	8175	9T58K2877
		0.25	7	6.5	8200	9T58K2878
		0.30	7	6.5	8200	9T58K2879
240 x 480 Volts	12/24 Volts	0.25	-	6.5	8200	9T58K3024
		0.05	-	2.4	6100	9T58K3164
		0.10	-	3.6	8100	9T58K4132
		0.15	-	5.1	8150	9T58K4133
208 x 240 Volts	12/24 Volts	0.05	-	2.4	6100	9T58K4050
		0.10	-	3.6	8100	9T58K4051
		0.15	-	5.1	8150	9T58K4052
		0.25	-	6.5	8200	9T58K4053

50/60 Hz Terminal Block

Input Voltage	Output Voltage	kVA	Wiring Diagram No.[1]	Approx. Net Weight (Lbs.)	Frame Size	Catalog Number
240 x 480 Volts	120/240 Volts	0.50	4	10.7	10225	9T58K2930
		0.75	4	16.1	12300	9T58K2931
		1	4	26.7	14225	9T58K2932
		1.5	4	32.7	14300	9T58K2933
		2	4	47.4	14475	9T58K2934
		3	4	47.4	14475	9T58K2935
380/400/416 Volts	115/230 Volts	0.25	8	6.5	8200	9T58K2975
		0.50	8	10.7	10225	9T58K2978
		0.75	8	16.1	12300	9T58K2979
		1	8	26.7	14225	9T58K2980
		1.5	8	32.7	14300	9T58K2981
		2	8	47.4	14475	9T58K2982
		3	8	47.4	14475	9T58K2983

[1] See page 10-61 for wiring diagrams.
[2] Secondary fusing not available.

Open core and coil transformers

Control

Single-phase, fully-encapsulated design



60 Hz - Leads Out Connection[2]

60 Hz Leads Out Connection[2]

Input Voltage	Output Voltage	kVA	Wiring Diagram No.[1]	Approx. Net Weight (Lbs.)	Frame Size	Catalog Number
120x240 Volts	12/24 Volts	0.05	7	2.4	6100	9T58K1873G07
		0.075	7	2.8	6125	9T58K1874G07
		0.10	7	3.6	8100	9T58K1875G07
		0.15	7	5.1	8150	9T58K1876G07
		0.20	7	5.8	8175	9T58K1877G07
		0.25	7	6.5	8200	9T58K1878G07
		0.30	7	6.5	8200	9T58K1879G07
		0.50	7	10.7	10225	9T58K1881G07
		0.75	7	12	12225	9T58K1882G07
		1	7	26.7	14225	9T58K1883G07

60 Hz Leads Out Connection[2]

Input Voltage	Output Voltage	kVA	Wiring Diagram No.[1]	Approx. Net Weight (Lbs.)	Frame Size	Catalog Number
240 x 480 Volts	120/240 Volts	0.05	4	2.4	6100	9T58K1802G07
		0.075	4	2.8	6125	9T58K1803G07
		0.10	4	3.6	8100	9T58K1804G07
		0.15	4	5.1	8150	9T58K1805G07
		0.20	4	5.8	8175	9T58K1806G07
		0.25	4	6.5	8200	9T58K1807G07
		0.30	4	6.5	8200	9T58K1808G07
		0.375	4	7.6	8250	9T58K1809G07
		0.50	4	10.7	10225	9T58K1810G07
		0.75	4	12	12225	9T58K1811G07
		1	4	16.1	12300	9T58K1812G07
		1.5	4	26.7	14225	9T58K1813G07
		2	4	32.7	14300	9T58K1814G07
		3	4	47.4	14475	9T58K1815G07
600 Volts	120/240 Volts	0.10	5	3.6	8100	9T58K1824G07
		0.20	5	5.8	8175	9T58K1826G07
		0.30	5	6.5	8200	9T58K1828G07
		0.50	5	10.7	10225	9T58K1830G07
		1	5	26.7	14225	9T58K1832G07
		2	5	32.7	14300	9T58K1834G07
		3	5	47.4	14475	9T58K1835G07

50/60 Hz Leads Out Connection[2]

Input Voltage	Output Voltage	kVA	Wiring Diagram No.[1]	Approx. Net Weight (Lbs.)	Frame Size	Catalog Number
240x480 Volts	120/240 Volts	0.25	4	6.5	8200	9T58K1927G07
		0.30	4	7.6	8250	9T58K1928G07
		0.50	4	10.7	10225	9T58K1930G07
		0.75	4	16.1	12300	9T58K1931G07
		1.5	4	32.7	14300	9T58K1933G07
		3	4	47.4	14475	9T58K1935G07
380/400/416 Volts	115/230 Volts	0.50	8	10.7	10225	9T58K1978G07
		0.75	8	16.1	12300	9T58K1979G07
		1	8	26.7	14225	9T58K1980G07
		1.5	8	32.7	14300	9T58K1981G07

[1] See page 10-61 for wiring diagrams.
[2] Secondary fusing not available.

50/60 Hz Universal Voltage/Multitap Terminal Strip Connection

kVA	Frame Size	Catalog Number
0.25	10225	9T58K3715
0.35	10225	9T58K3716
0.50	12225	9T58K3717
0.75	12300	9T58K3718
1	14225	9T58K3719
1.5	14300	9T58K3720
2	14475	9T58K3721

Voltage Table

Incoming Voltage				Output Voltage		
H1 H2	H1 H3	H1 H4	H1 H5	X1 X2	X1 X3	X1 X4
208	-	-	500	85	100	110
-	-	415	-	86	104	113
220	380	440	550	91	110	120
230	40	460	575	95	115	125
240	416	480	600	99	120	130

Open core and coil transformers

Options and fusing guide

Transformer Fusing Options

Accessory Description	Catalog Number
(1) Quarter-Inch Fuseholder	9T58K0000G24 
(1) Midget Fuseholder	9T58K0000G42 
(1) H/K Fuseholder	9T58K0000G10 
(2) CC Fuseholder	9T58K0000G43 
(2) H/K Fuseholder	9T58K0000G05 

Accessory Description	Catalog Number
(2) CC + (1) Quarter-Inch Fuseholder	9T58K0000G48 
(2) CC + (1) Midget Fuseholder	9T58K0000G38 
(2) CC + (1) H/K Fuseholder	9T58K0000G18 
(2) CC Fuseholder	9T58E0000G46
(2) CC + (1) Midget Fuseholder	9T58E0000G47
Jumper Links	9T58K0000G01

Fuse Guide

Midget Class CC Rejection Fuse

Primary Voltage	Transformer Continuous Power Rating (VA)								
	50	75	100	150	200	250	300	375	500
	Fuse Rating (Amperes)								
100	1.50	2.00	3.00	4.00	3.00	4.00	5.00	6.00	8.00
110	1.25	2.00	2.50	4.00	5.00	3.00	4.00	5.00	7.00
120	1.25	1.60	2.50	3.00	5.00	3.00	4.00	5.00	6.00
200	0.75	1.00	1.50	2.00	3.00	3.00	4.00	5.00	4.00
208	0.60	1.00	1.25	2.00	2.50	3.00	4.00	5.00	4.00
220	0.60	1.00	1.25	2.00	2.50	3.00	4.00	5.00	3.00
230	0.60	0.80	1.25	1.60	2.50	3.00	3.00	4.00	3.00
240	0.60	0.80	1.25	1.60	2.50	3.00	3.00	4.00	3.00
277	0.50	0.80	1.00	1.60	2.00	2.50	3.00	4.00	5.00
380	0.30	0.50	0.75	1.00	1.50	1.60	2.00	2.50	3.00
400	0.30	0.50	0.75	1.00	1.50	1.60	2.00	2.50	3.00
416	0.30	0.50	0.60	1.00	1.25	1.60	2.00	2.50	3.00
440	0.30	0.50	0.60	1.00	1.25	1.60	2.00	2.50	3.00
460	0.30	0.40	0.60	0.80	1.25	1.60	1.60	2.00	3.00
480	0.30	0.40	0.60	0.80	1.25	1.50	1.60	2.00	3.00
550	0.25	0.40	0.50	0.80	1.00	1.25	1.60	2.00	2.50
575	0.25	0.30	0.50	0.75	1.00	1.25	1.50	1.60	2.50
600	0.25	0.30	0.50	0.75	1.00	1.25	1.50	1.60	2.50

For motor control circuits fusing, refer to NEC 430-72.

Secondary Fuse Selection

Glass Fuse

Secondary Voltage	Transformer Continuous Power Rating (VA)													
	50	75	100	150	200	250	300	375	500	750	1000	1500	2000	3000
	Fuse Rating (Amperes)													
12	6.00	10.00	12.00	15.00	20.00	25.00	30.00	-	-	-	-	-	-	-
24	3.00	5.00	6.00	10.00	12.00	12.00	15.00	-	25.00	-	-	-	-	-
36	2.00	3.00	4.00	6.00	8.00	10.00	12.00	-	15.00	-	-	-	-	-
48	1.50	2.50	3.00	5.00	6.00	8.00	10.00	12.00	12.00	-	-	-	-	-
95	0.80	1.25	1.60	2.50	3.00	4.00	5.00	6.00	8.00	12.00	15.00	20.00	25.00	-
110	0.75	1.00	1.50	2.00	3.00	3.00	4.00	5.00	7.00	10.00	12.00	20.00	25.00	30.00
115	0.60	1.00	1.25	2.00	2.50	3.00	4.00	5.00	7.00	10.00	12.00	20.00	20.00	30.00
120	0.60	1.00	1.25	2.00	2.50	3.00	4.00	5.00	6.00	10.00	12.00	15.00	20.00	30.00
208	0.40	0.60	0.80	1.00	1.60	2.00	2.00	3.00	4.00	6.00	8.00	12.00	15.00	20.00
220	0.30	0.50	0.75	1.00	1.50	1.60	2.00	2.50	3.00	5.00	7.00	10.00	12.00	20.00
230	0.30	0.50	0.60	1.00	1.25	1.60	2.00	2.50	3.00	5.00	7.00	10.00	12.00	20.00
240	0.30	0.50	0.60	1.00	1.25	1.60	2.00	2.50	3.00	5.00	6.00	10.00	12.00	15.00

Open core and coil transformers

Machine tool applications

Control

Wiring diagrams

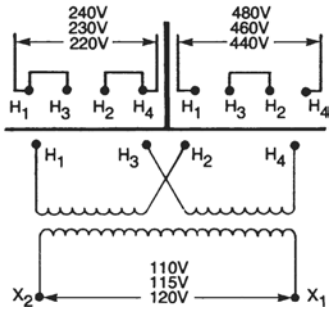


Diagram 1

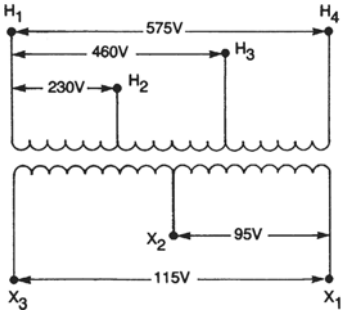


Diagram 2

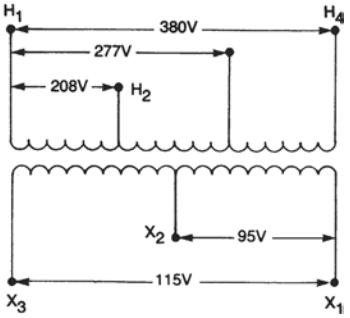


Diagram 3

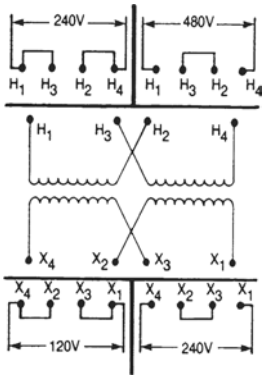


Diagram 4

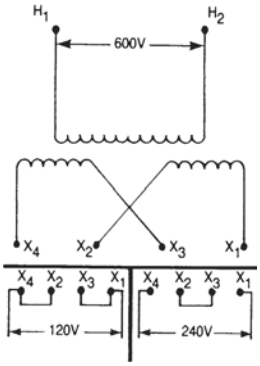


Diagram 5

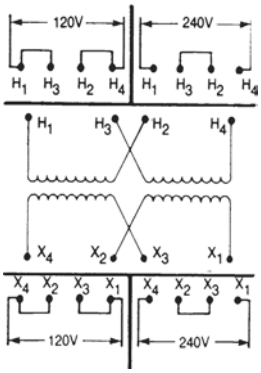


Diagram 6

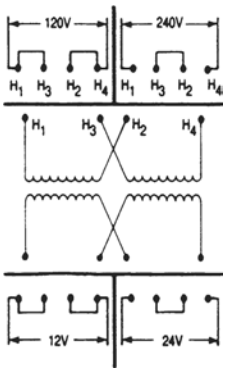


Diagram 7

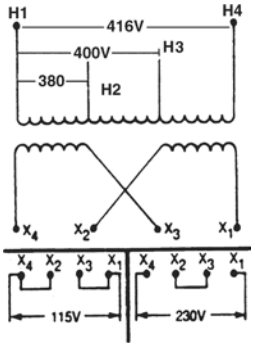


Diagram 8

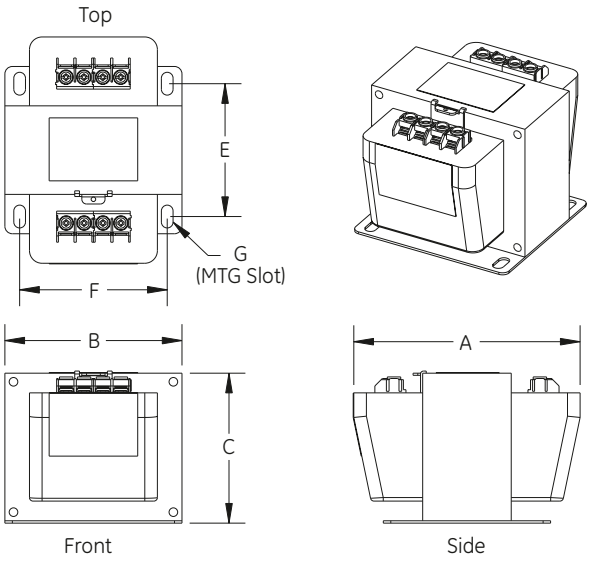
Open core and coil transformers

Outlines and dimensions

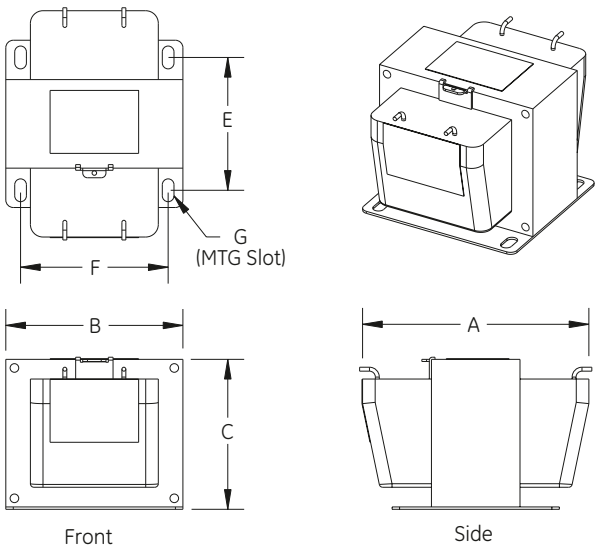
6, 8, 10, 12 And 14 frames

Terminal Block and Leads Out Connection Style

Frame Size	Style	Outline Drawing	Net Weight (lbs.)	A Depth (in.)	B Width (in.)	C Width (in.)	E Mounting Depth (in.)	F Mounting Width (in.)	Mounting Slot In (in.)
6100	AA	303B947	2.6	4	3.06	2.68	2.16	2.5	0.219x0.750
	AB			3.25					
6125	AA	303B947	3	4.25	3.06	2.68	2.41	2.5	0.219x0.750
	AB			3.5					
6150	AA	303B947	3.4	4.5	3.06	2.68	2.66	2.5	0.219x0.750
	AB			3.75					
8100	AA	303B947	3.9	4.12	3.81	3.28	2.16	3.12	0.219x0.750
	AB			3.42					
8150	AA	303B947	5.5	4.62	3.81	3.28	2.66	3.12	0.219x0.750
	AB			3.92					
8175	AA	303B947	6.3	4.88	3.81	3.28	2.91	3.12	0.219x0.750
	AB			4.18					
8200	AA	303B947	7	5.12	3.81	3.28	3.16	3.12	0.219x0.750
	AB			4.42					
8250	AA	303B947	8.3	5.62	3.81	3.28	3.66	3.12	0.219x0.750
	AB			4.92					
10225	AA/AB	303B947	11.6	5.62	4.56	3.9	3.38	3.75	0.297x0.580
12225	AA/AB	303B947	13	5.88	5.31	4.56	3.38	4	0.297x0.580
12300	AA/AB	303B947	17.5	6.62	5.31	4.56	4.13	4	0.297x0.580
14225	AA/AB	303B947	29	6.5	6.81	5.81	3.38	5.5	0.297x0.580
14300	AA/AB	303B947	35.5	7.25	6.81	5.78	4.13	5.5	0.297x0.580
14475	AA/AB	303B947	51.5	9	6.81	5.81	5.88	5.5	0.297x0.580



Style AA (Terminal Blocks)



Style AB (Leads Out)

Open core and coil transformers

CE-rated



Application

Application

This product is designed to be incorporated into equipment manufactured for sale in the European Community. This product is in conformity with the Low Voltage Directive 2014/35/EU of 06 JUN 2018 per the provisions of the following standard:
IEC 61558-2-6:2009-02 Edition 2.0; Safety of transformers, reactors, power supply units and similar products for supply voltages..

The Type "IP" CE offering utilizes all copper windings, which are encapsulated in a hardened epoxy, making the winding impervious to the elements. These designs are rated at 55° C rise with a 40° C ambient. Standard on these designs are terminal block covers. These provide added protection from current carrying terminals. These designs incorporate customer friendly connection on rugged high-impact molded terminal blocks.



Factory- or Field-Installed Options

Factory- or Field-Installed Options

Available as an option are two fuse blocks that have fuse covers that provide the touch safety like the terminal blocks. These can be ordered factory-installed or as kits.

In kit form order:
Fuse block for 2 class CC fuses is 9T58E0000G46. Fuse block for 2 class CC and 1 Midget fuse is 9T58E0000G47. See page 65 for fuse block kits..

For factory installation add the G46 or G47 suffix to the transformer Catalog Number (example 9T58E0020G47).

Besides being CE rated, these designs are both UL and C-UL listed.

50/60 Hz

Input Voltage	Output Voltage	kVA	Approx. Net Weight (Lbs.)	Frame Size	Catalog Number
230/400 Volts	12/24 Volts	0.025	3	6100	9T58E0020
		0.05	4	6150	9T58E0021
		0.075	4	8100	9T58E0023
		0.1	5	8150	9T58E0024
		0.15	7	8200	9T58E0025
		0.2	12	10225	9T58E0026
		0.25	12	10225	9T58E0027
		0.3	12	10225	9T58E0028
		0.375	16	12225	9T58E0029
	24/48 Volts	0.05	4	6150	9T58E0061
		0.075	4	8100	9T58E0063
		0.1	5	8150	9T58E0064
		0.15	7	8200	9T58E0065
		0.2	12	10225	9T58E0066
		0.5	19	12300	9T58E0071
		0.75	28	14225	9T58E0073
220/380, 230/400, 240/415 Volts	110/220, 115/230, 120/240 Volts	0.025	3	6100	9T58E0150
		0.05	4	6150	9T58E0151
		0.075	4	8100	9T58E0153
		0.1	5	8150	9T58E0154
		0.15	7	8200	9T58E0155
		0.2	12	10225	9T58E0156
		0.25	12	10225	9T58E0157
		0.3	12	10225	9T58E0158
		0.375	16	12225	9T58E0159
		0.5	19	12300	9T58E0161
		0.75	28	14225	9T58E0163
		1	34	14300	9T58E0164
		1.5	45	14475	9T58E0165
200/400/480 Volts	120 Volts	0.25	12	10225	9T58E0506
400/480 Volts	120/200 Volts	1.5	45	14475	9T58E0507
380/400/415/480/528 Volts	24/48 Volts	0.3	12	10225	9T58E2000
		0.5	6	8175	9T58E2001
200/208/220/230/240 Volts	24/48 Volts	0.3	12	10225	9T58E2002

Notes

Electrical installation solutions for buildings
Quick product references

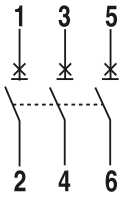
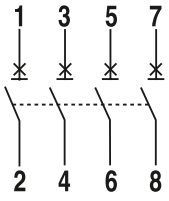
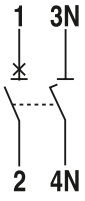
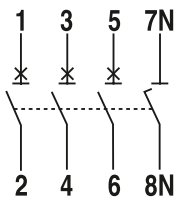
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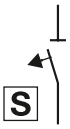
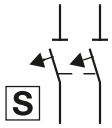
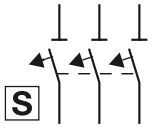
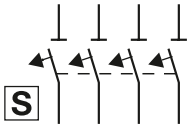
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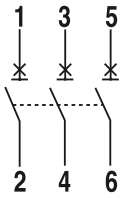
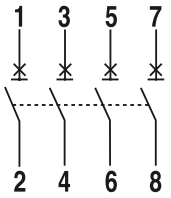
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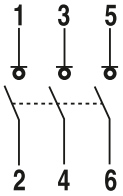
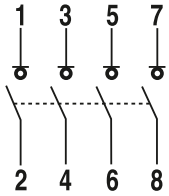
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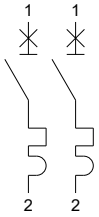
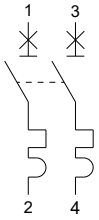
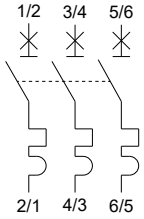
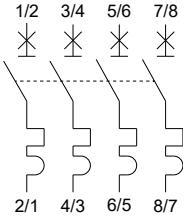
MCBs

S 201 / S 301	S 202 / S 302	S 203 / S 303	S 204 / S 304	S 201 Na / S 301 Na	S 203 Na / S 303 Na
					

S 751 DR	S 752 DR	S 753 DR	S 754 DR
			

S 801	S 802	S 803	S 804
			

S 802 PV-M	S 803 PV-M	S 804 PV-M
		

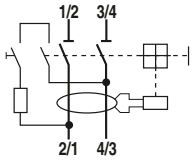
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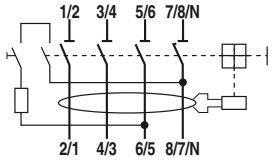
RCDs wiring diagrams

RCDs

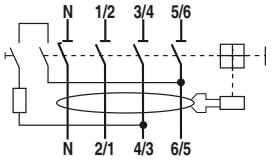
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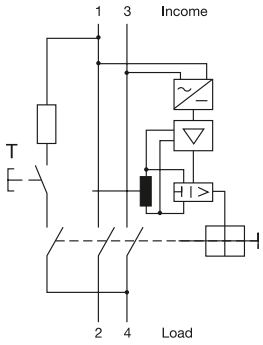
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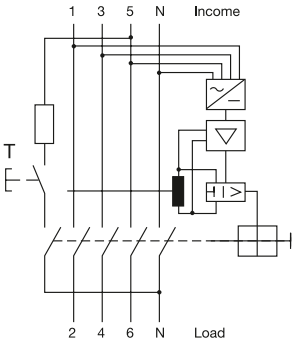
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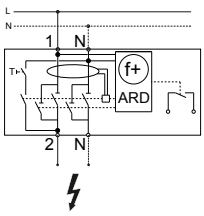
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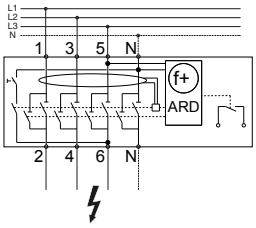
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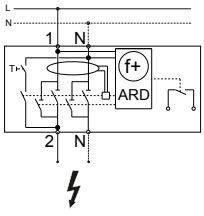
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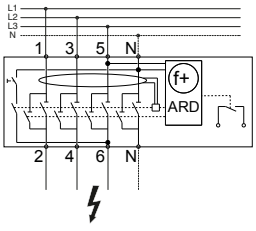
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F-ATI 2 Test



F-ATI 4 Test

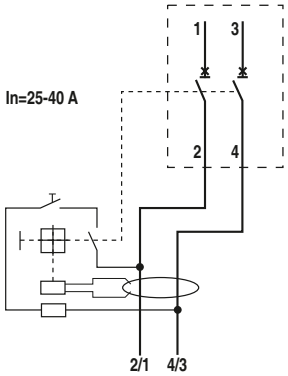


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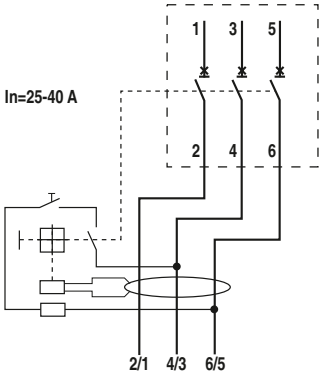
RCDs wiring diagrams

RCD-blocks

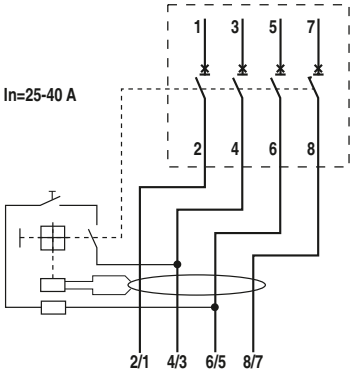
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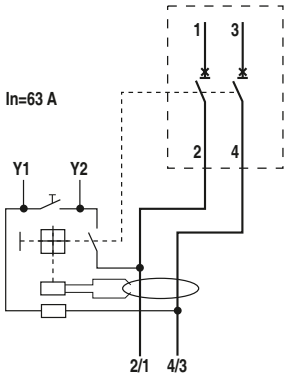
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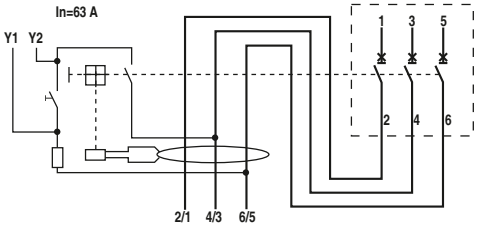
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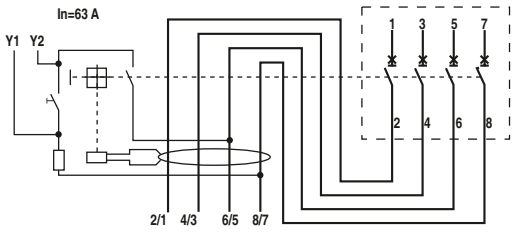
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DDA 203



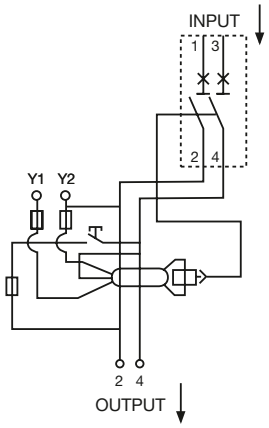
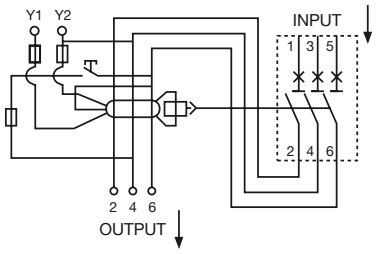
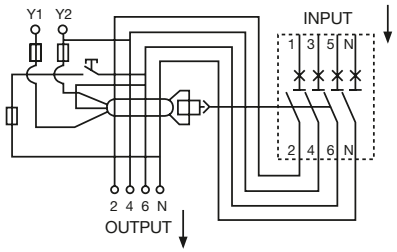
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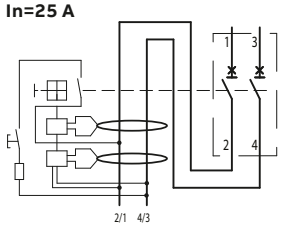
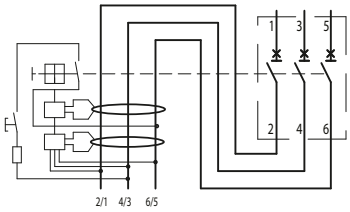
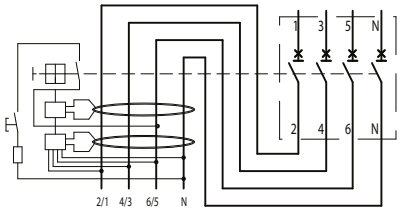
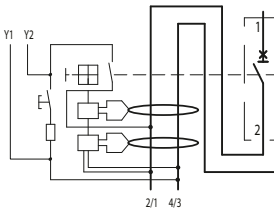
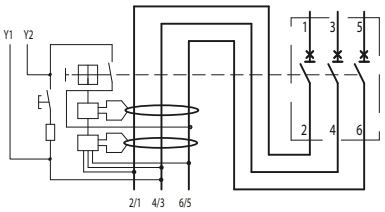
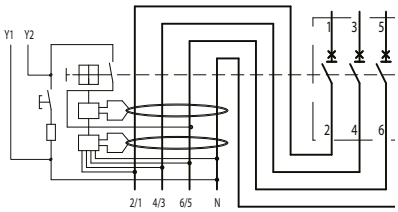


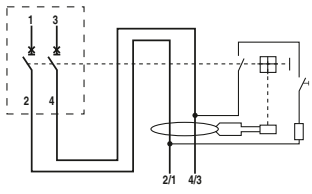
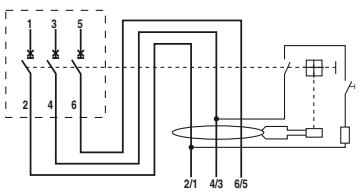
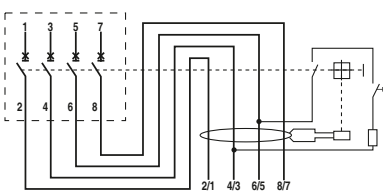
Quick product references

RCDs wiring diagrams

RCD-blocks

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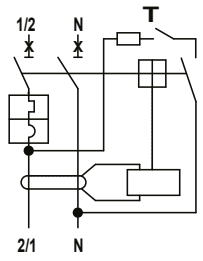
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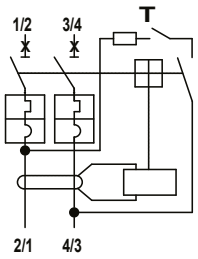
RCDs wiring diagrams

RCBOs

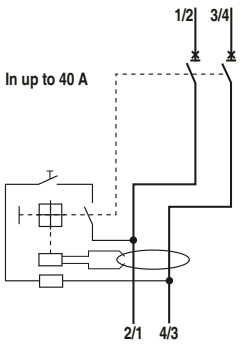
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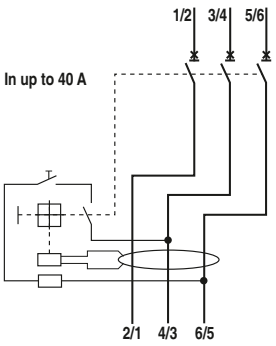
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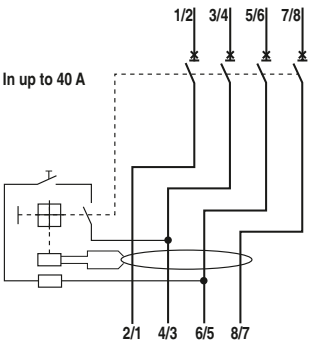
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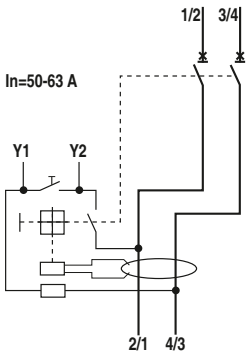
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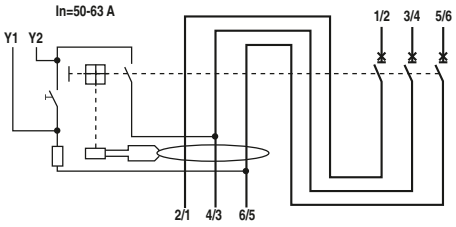
DS204



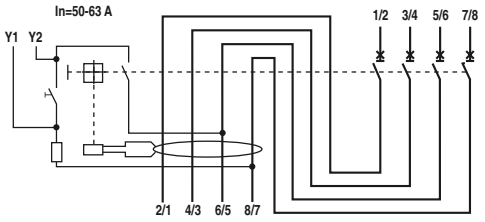
DS202



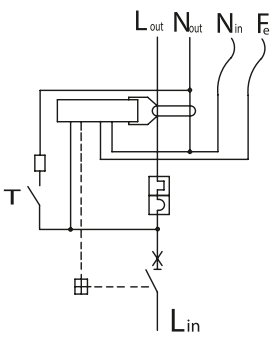
DS203



DS204



DSE201 - DSE201 M

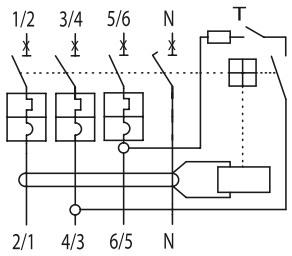


Quick product references

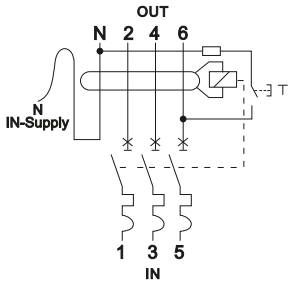
RCDs wiring diagrams

RCBOs

DS203NC

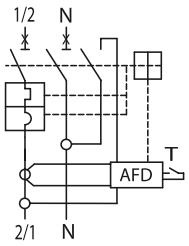


DSE203N M

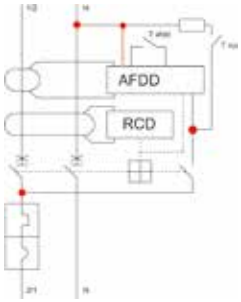


AFDD

S-ARC1

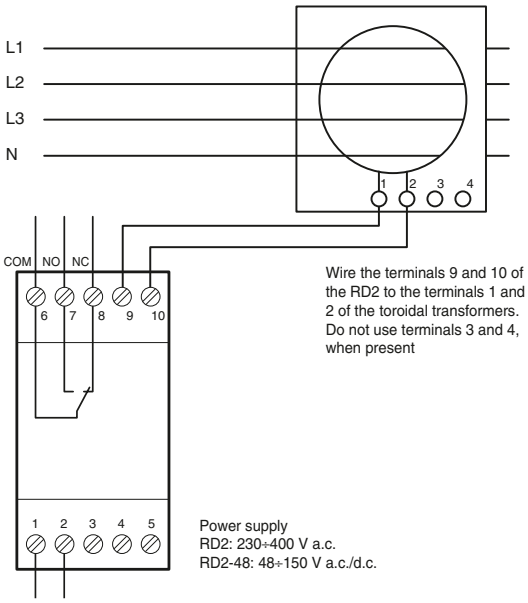


DS-ARC1



Residual current relays

RD2 residual current relays



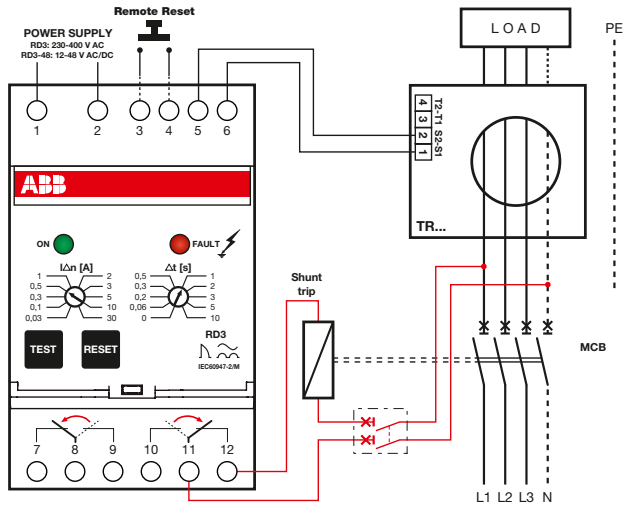
Wire the terminals 9 and 10 of the RD2 to the terminals 1 and 2 of the toroidal transformers. Do not use terminals 3 and 4, when present

Power supply
RD2: 230÷400 V a.c.
RD2-48: 48÷150 V a.c./d.c.

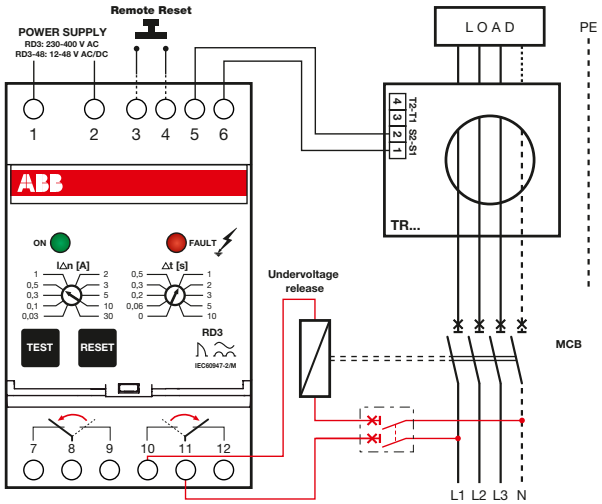
Quick product references

RCDs wiring diagrams

RD3 - undervoltage release wiring

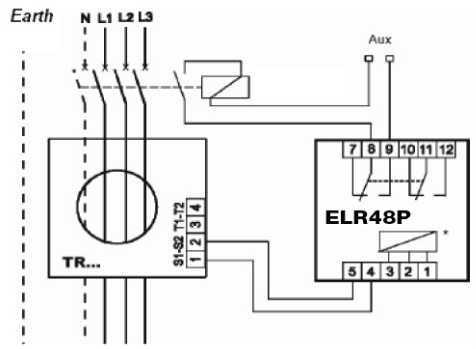


RD3 - shunt trip wiring

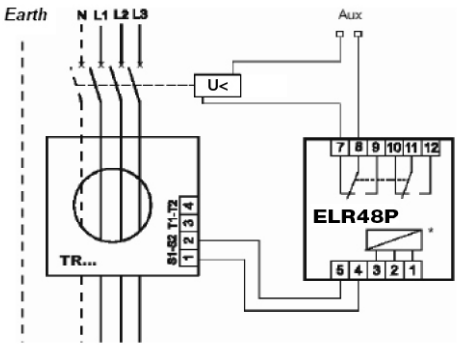


* The residual current protection is not active when this circuit breaker is switch-off

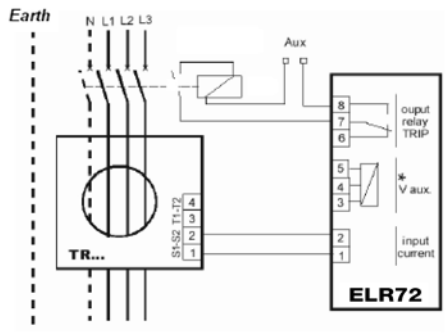
ELR48P - shunt trip wiring



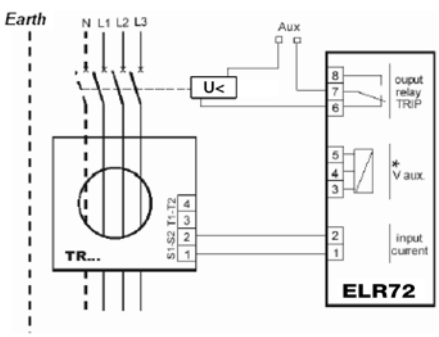
ELR48P - undervoltage release wiring



ELR72 - shunt trip wiring



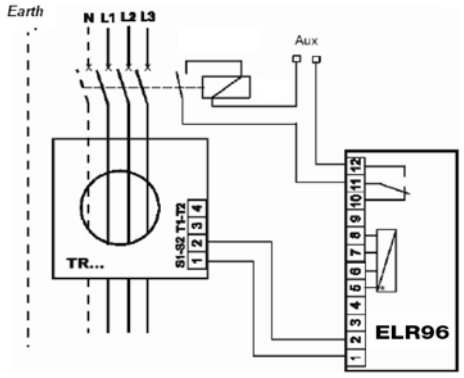
ELR72 - undervoltage release wiring



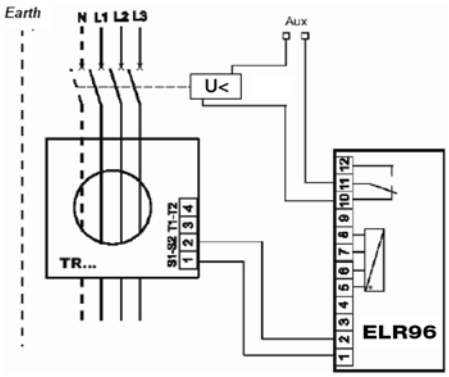
Quick product references

RCDs wiring diagrams

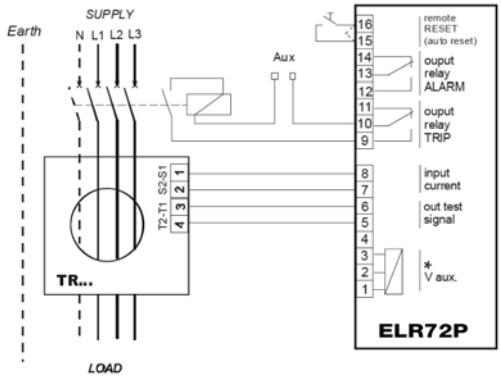
ELR96 - shunt trip wiring



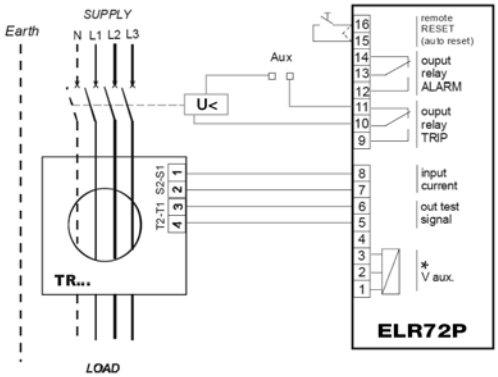
ELR96 - undervoltage release wiring



ELR72P - shunt trip wiring



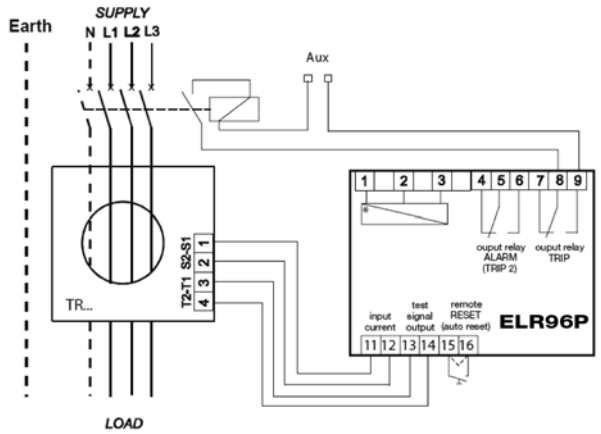
ELR72P - undervoltage release wiring



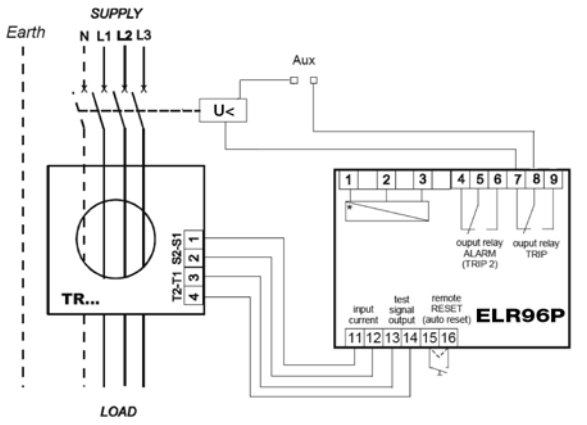
Quick product references

RCDs wiring diagrams

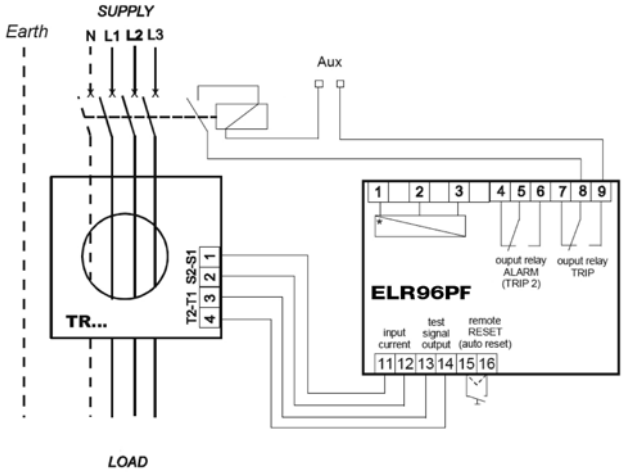
ELR96P - shunt trip wiring



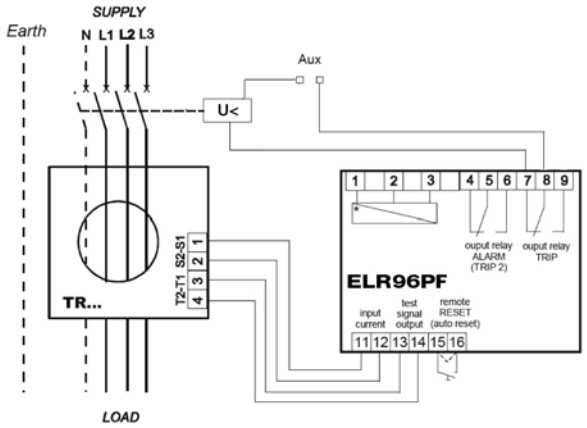
ELR96P - undervoltage release wiring



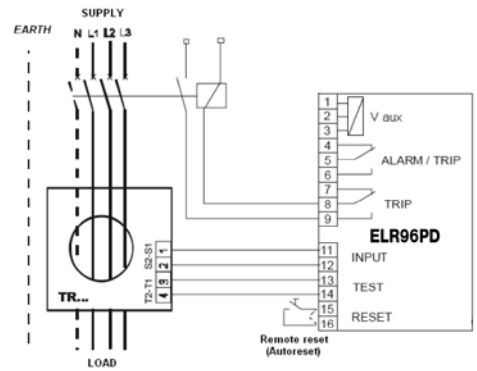
ELR96PF - shunt trip wiring



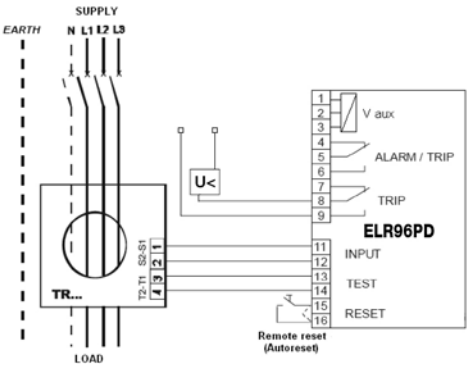
ELR96PF - undervoltage release wiring



ELR96PD - shunt trip wiring



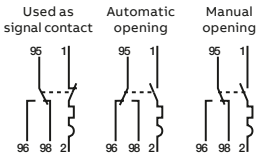
ELR96PD - undervoltage release wiring



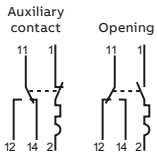
Quick product references

Auxiliary elements

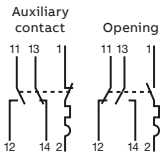
S2C-S/H6R



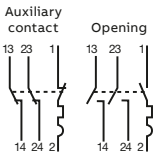
S2C-H6R



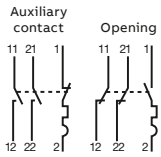
S2C-H6-11R



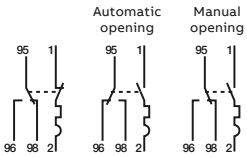
S2C-H6-20R



S2C-H6-02R



SN201-S



SN201-IH

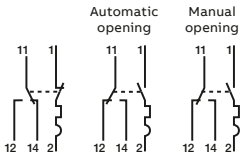


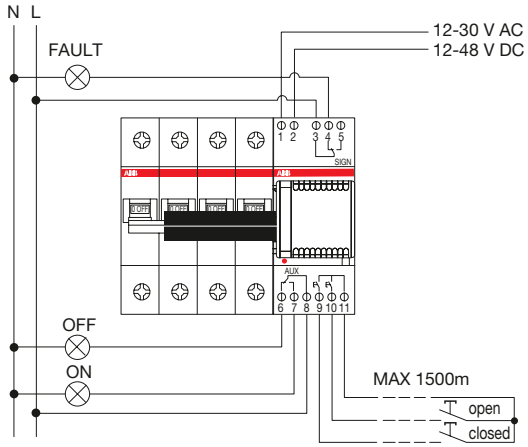
ABB has a full product range of auxiliary contacts completed by the S2C-S/H6R universal contacts. An auxiliary contact indicates the position of the MCB. A signal contact indicates the MCB position plus the fault event, i.e., overload or short-circuit.

Quick product references

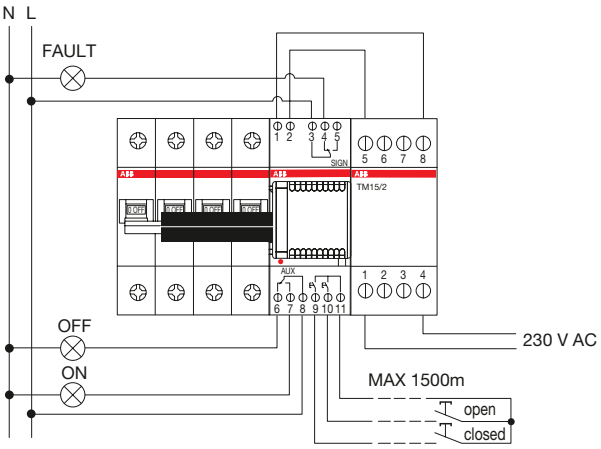
Auxiliary elements

Wiring diagrams for S2C-CM motor operating devices

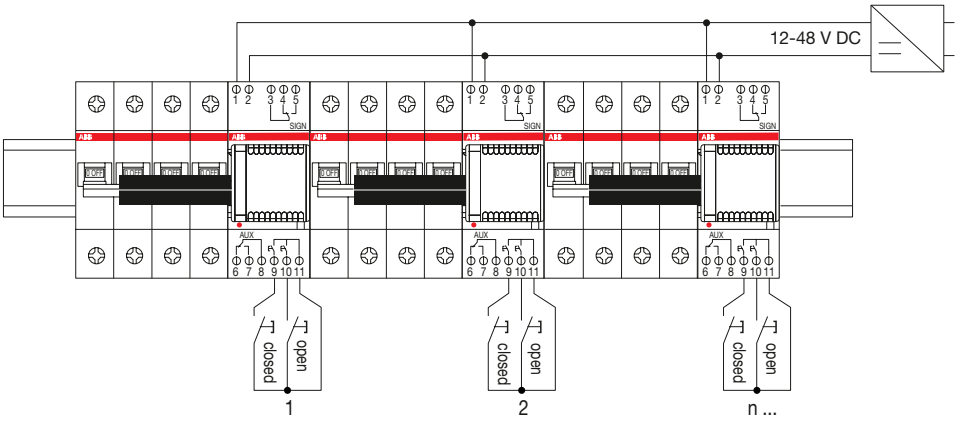
Low voltage use: 12...30 V AC, 12...48 V DC



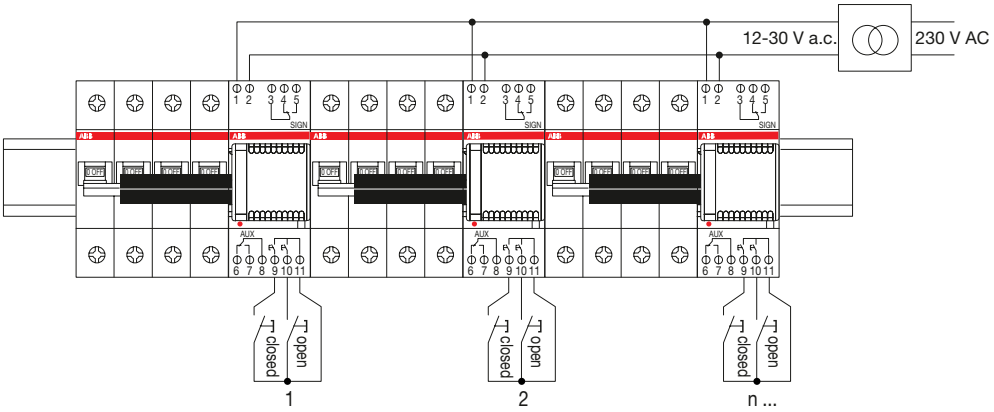
Use at 230 V AC via a TM15/12 bell transformer



Low voltage use of several motor operating devices: 12...30 V AC, 12...48 V DC



Use of several motor operating devices at 230 V AC via a single safety transformer

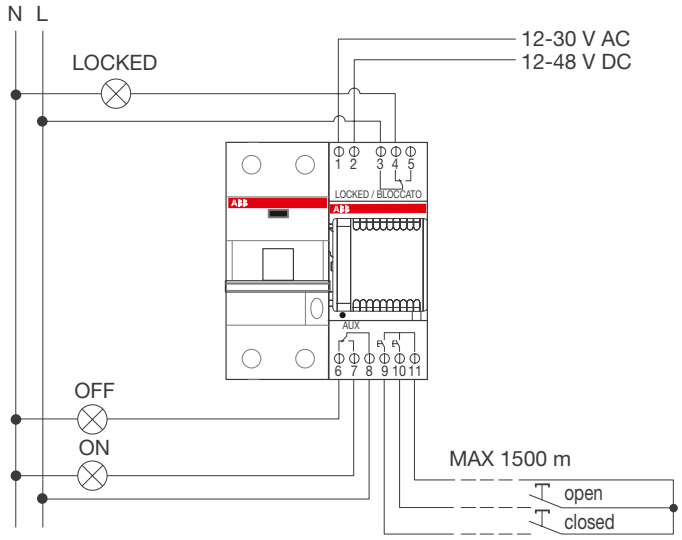


Quick product references

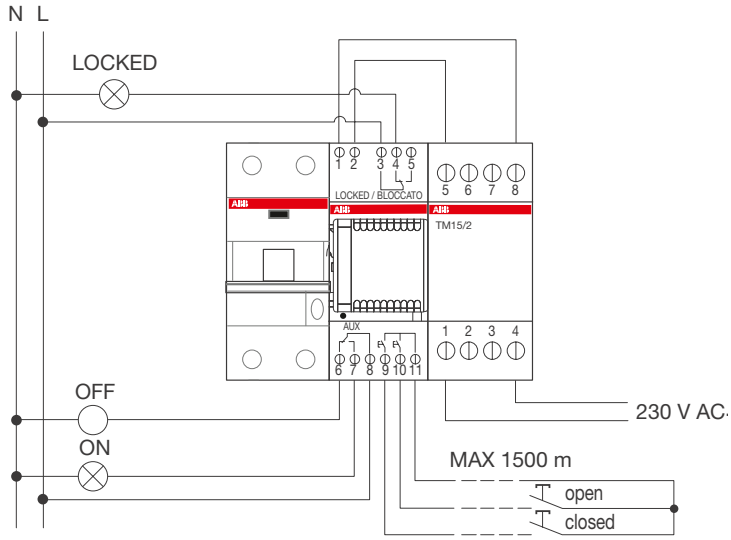
Auxiliary elements

Wiring diagrams for DS2C-CM motor operating devices

Low voltage use 12...30 V AC, 12...48 V DC



Use at 230 V AC via a TN15/12 transformer

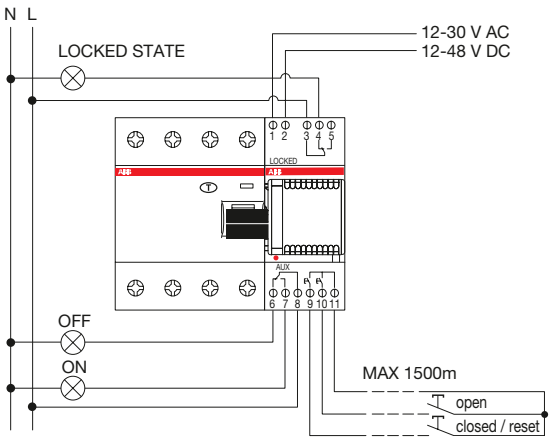


Quick product references

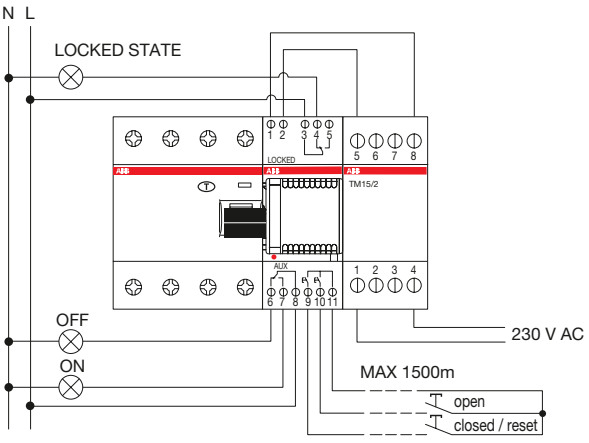
Auxiliary elements

Wiring diagrams for motor operating device F2C-CM and F2C-ARI auto-reclosing unit

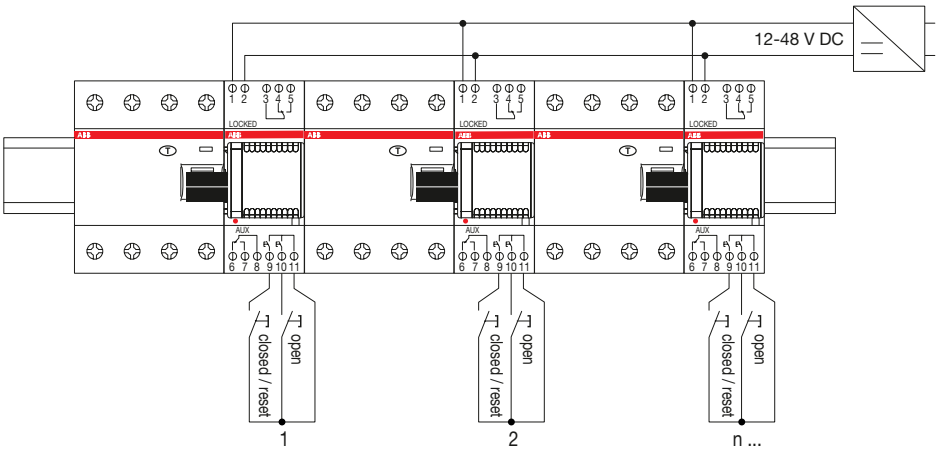
Low voltage use: 12...30 V AC, 12...48 V DC



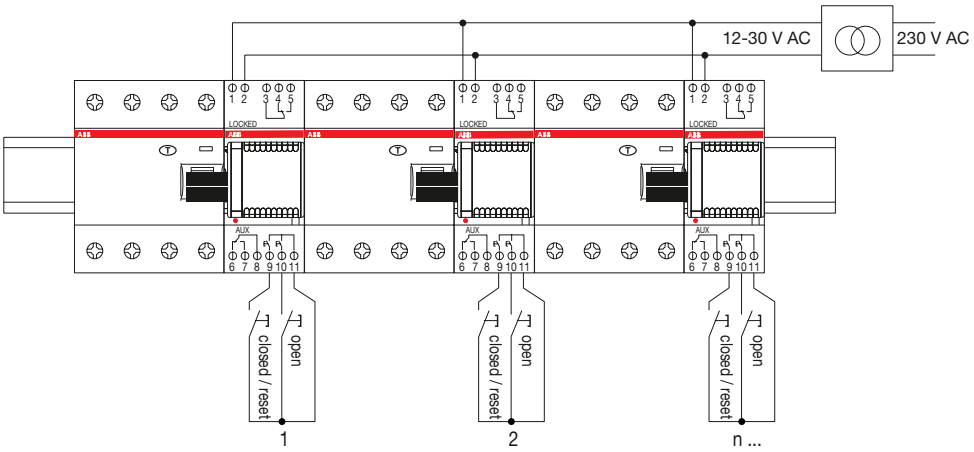
Use at 230 V AC via a TM15/12 bell transformer



Low voltage use of several motor operating devices or auto-reclosing units: 12-30 V AC, 12-48 V DC



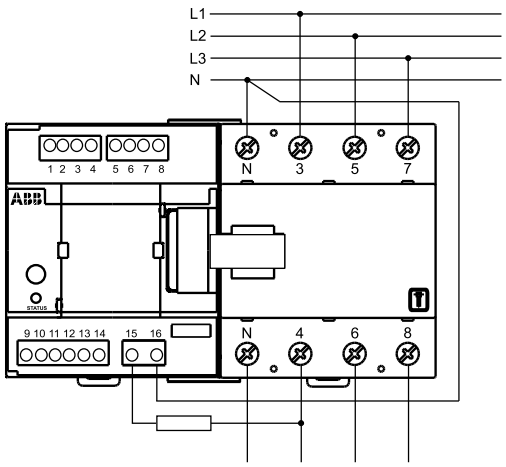
Use of several motor operating devices or auto-reclosing units at 230 V AC via a single transformer



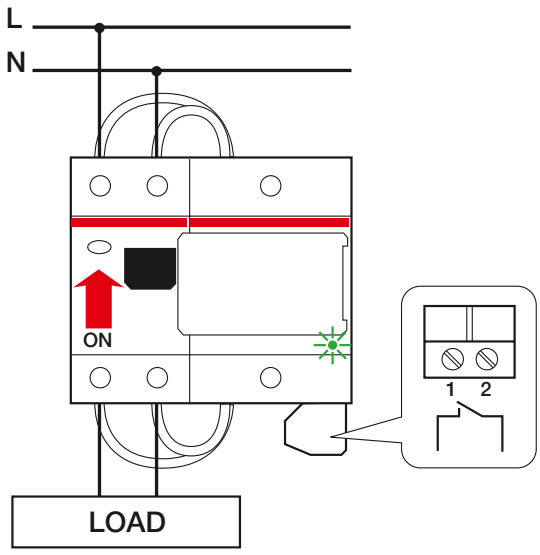
Quick product references

Auxiliary elements

Wiring diagram for F2 CM4 motor operating devices



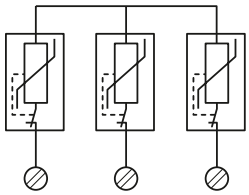
Wiring diagram for F2C-ARH and F2C-ARH-T



Quick product references

Protection and safety wiring diagrams

Surge Protective Devices - Photovoltaic SPDs - OVR PV

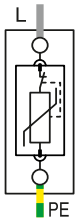


OVR PV T1-T2 QS / OVR PV T2

Surge Protective Devices - Type 1+2 12.5/Type 2/ Type 2+3

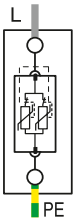
Pluggable Type 1+2 12.5/Type 2/ Type 2+3

Single pole Type 2 SPD



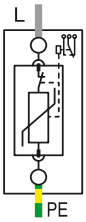
OVR T2-T3 20-275 P QS,
OVR T2 40-275 P QS,
OVR T2-T3 20-440 P QS,
OVR T2 40-275 P QS

Single pole Type 1+2 12.5/Type 2 SPD with safety reserve (s)



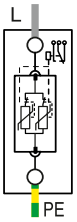
OVR T2 40-275s P QS,
OVR T2 80 275s P QS,
OVR T2 40-440s P QS,
OVR T2 80-440s P QS,
OVR T1-T2 12.5-275s P QS,
OVR T1-T2 12.5-440s P QS

Single pole Type 2/Type 2+3 SPD with remote indication (TS)



OVR T2-T3 20-275 P TS QS,
OVR T2 40-275 P TS QS,
OVR T2-T3 20-440 P TS QS,
OVR T2 40-440 P TS QS

Single pole Type 1+2 12.5/Type 2 SPD with safety reserve (s) and remote indication (TS)



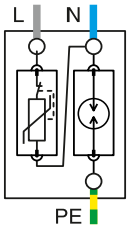
OVR T2 40-275s P TS QS,
OVR T2 80-275s P QS,
OVR T2 40-440s P TS QS,
OVR T2 80-440s P TS QS

Quick product references

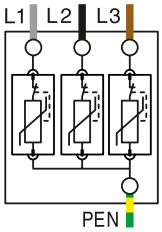
Protection and safety wiring diagrams

Surge Protective Devices - Type 1+2 12.5/Type 2/ Type 2+3

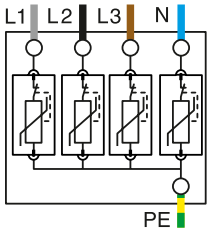
Multipole Type 2/ Type 2+3 SPD



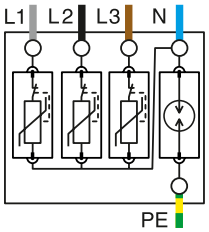
OVR T2-T3 1N 20-275 P QS,
OVR T2 1N 40-275 P QS



OVR T2-T3 3L 20-275 P QS,
OVR T2 3L 40-275 P QS

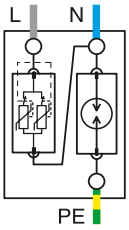


OVR T2-T3 4L 20-275 P QS,
OVR T2 4l 40-275 P QS

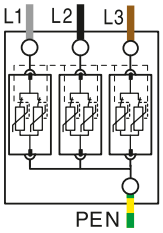


OVR T2-T3 3N 20-275 P QS,
OVR T2 3N 40-275 P QS

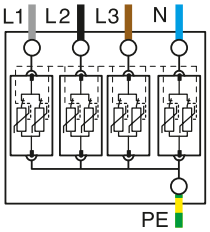
Multipole Type 1+2 12.5 / Type 2 SPD with safety reserve (s)



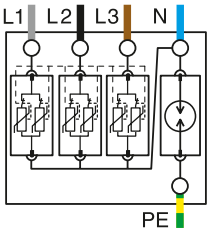
OVR T2 1N 40-275s P QS,
OVR T2 1N 80-275s P QS



OVR T2 3L 40-275s P QS,
OVR T2 3L 80-275s P QS,
OVR T1-T2 3L 12.5-275s P QS,
OVR T1-T2 3L 12.5-440s P QS

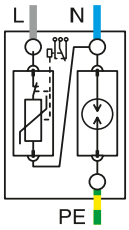


OVR T2 4L 40-275s P QS,
OVR T2 4L 80-275s P QS,
OVR T1-T2 4L 12.5-275s P QS,
OVR T1-T2 4L 12.5-440s P QS

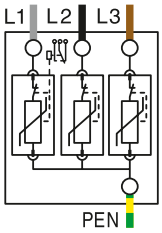


OVR T2 3N 40-275s P QS,
OVR T2 3N 80-275s P QS,
OVR T1-T2 3N 12.5-275s P QS,
OVR T1-T2 3N 12.5-440s P QS

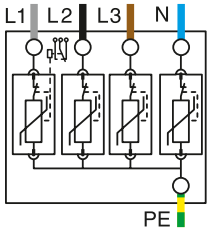
Multipole Type 2/ Type 2+3SPD with remote indication (TS)



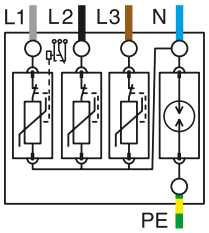
OVR T2-T3 1N 20-275 P TS QS,
OVR T2 1N 40-275 P TS QS



OVR T2-T3 3L 20-275 P TS QS,
OVR T2 3L 40-275 P TS QS

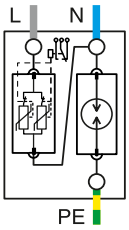


OVR T2-T3 4L 20-275 P TS QS,
OVR T2 4l 40-275 P TS QS

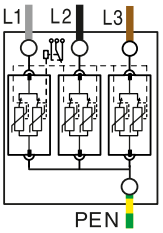


OVR T2-T3 3N 20-275 P TS QS,
OVR T2 3N 40-275 P TS QS

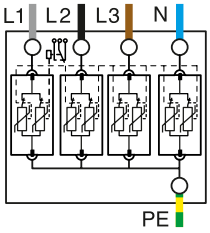
Multipole Type 1+2 12.5/Type 2 SPD with safety reserve (s) and remote indication (TS)



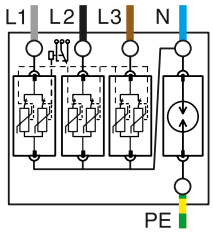
OVR T2 1N 40-275s P TS QS,
OVR T2 1N 80-275s P TS QS,
OVR T1-T2 1N 12.5-275s P TS QS,
OVR T1-T2 1N 12.5-440s P TS QS



OVR T2 3L 40-275s P TS QS,
OVR T2 3L 80-275s P TS QS,
OVR T1-T2 3L 12.5-275s P TS QS,
OVR T1-T2 3L 12.5-440s P TS QS



OVR T2 4L 40-275s P TS QS,
OVR T2 4L 80-275s P TS QS,
OVR T1-T2 4L 12.5-275s P TS QS,
OVR T1-T2 4L 12.5-440s P TS QS

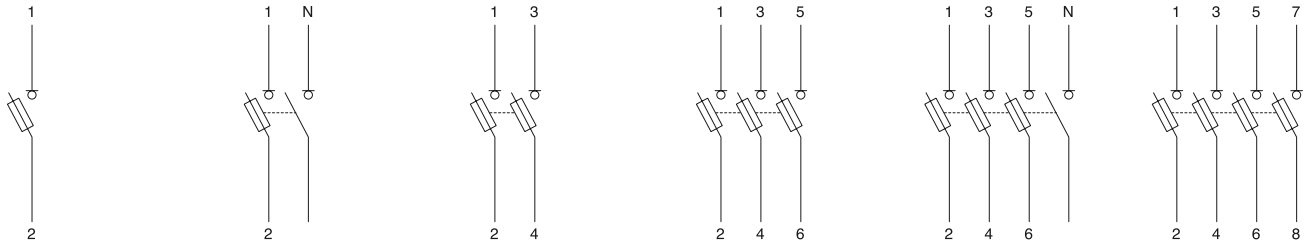


OVR T2 3N 40-275s P TS QS,
OVR T2 3N 80-275s P TS QS,
OVR T1-T2 3N 12.5-275s P TS QS,
OVR T1-T2 3N 12.5-440s P TS QS

Quick product references

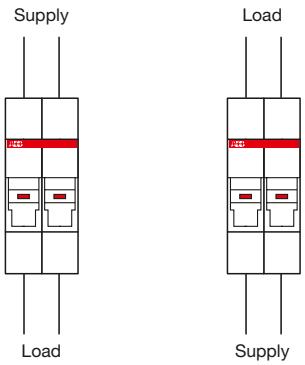
Protection and safety wiring diagrams

E90 fuse switch disconnectors



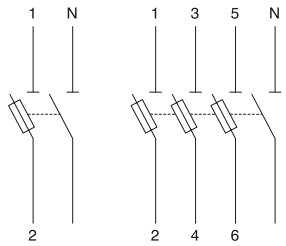
1P **1P+N** **2P** **3P** **3P+N** **4P**

E 90 with blown fuse indicator light in alternate current



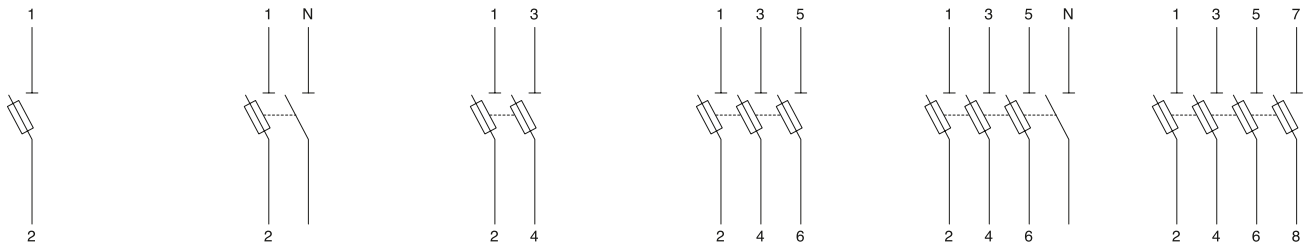
For direct current systems please refer to E 90 PV wiring diagram

E90h fuse holders



1P+N **3P+N**

E90 fuse disconnectors and E90/30 CC fuse holders

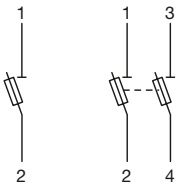


1P **1P+N** **2P** **3P** **3P+N** **4P**

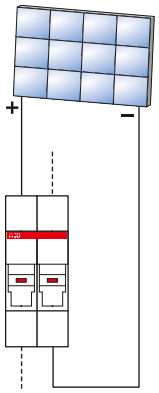
Quick product references

Protection and safety wiring diagrams

E90 PV fuse disconnectors

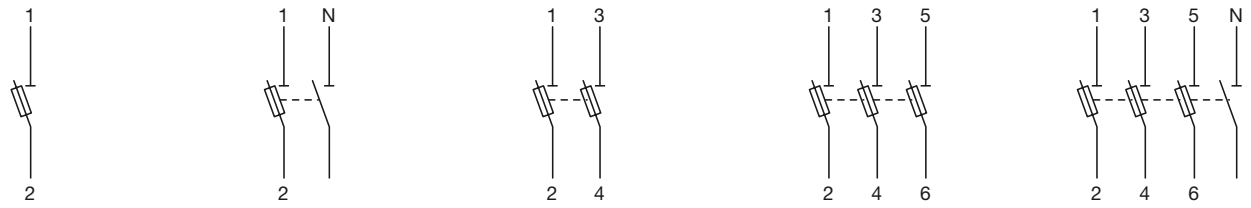


E 90 PV with blown fuse indicator light in direct current

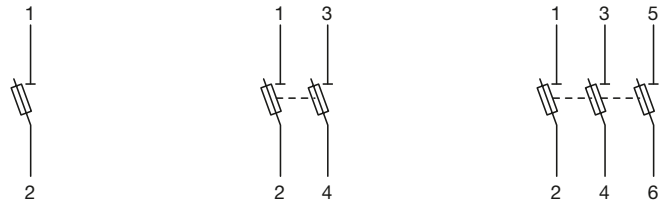


In direct current systems, since the LED allows the current to flow only from positive to negative, the wiring of the blown fuse indicator version should follow the current direction as shown in the diagram

E90 50/125 fuse disconnectors



E90 30/60 J fuse holders



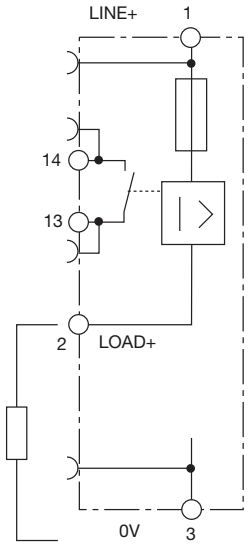
ILTS-E



Quick product references

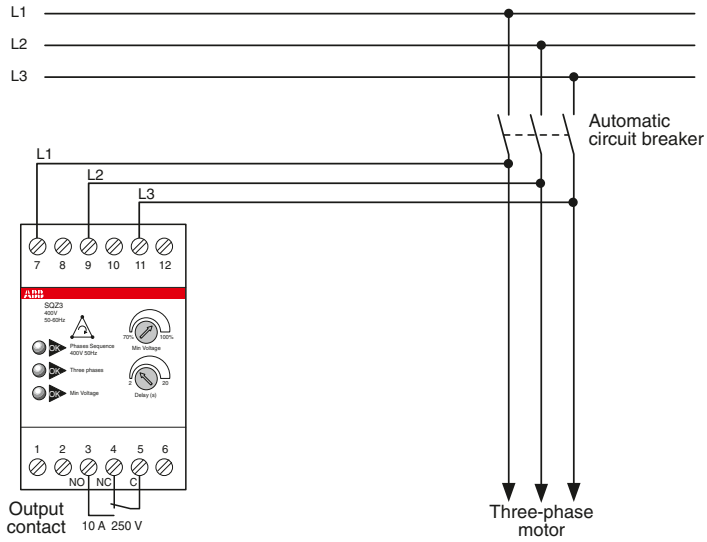
Protection and safety wiring diagrams

EPD24

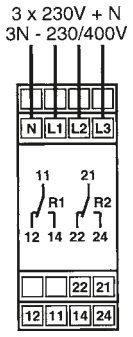


EPD24-TB-101
without signal input
with signal output F
(single signal, NO)
Operating condition: 13-14 closed
Fault condition: 13-14 open

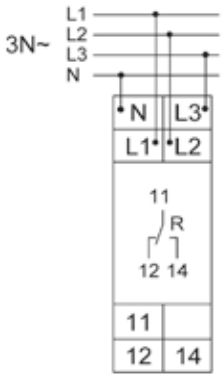
SQZ3

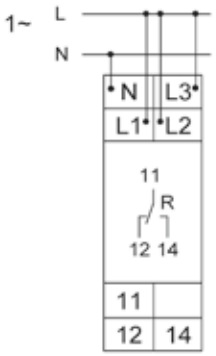


E 236 US 1, E 236 US 2

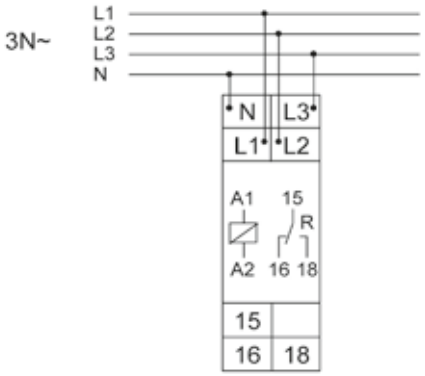


E236-US 1.1 and US 2.1





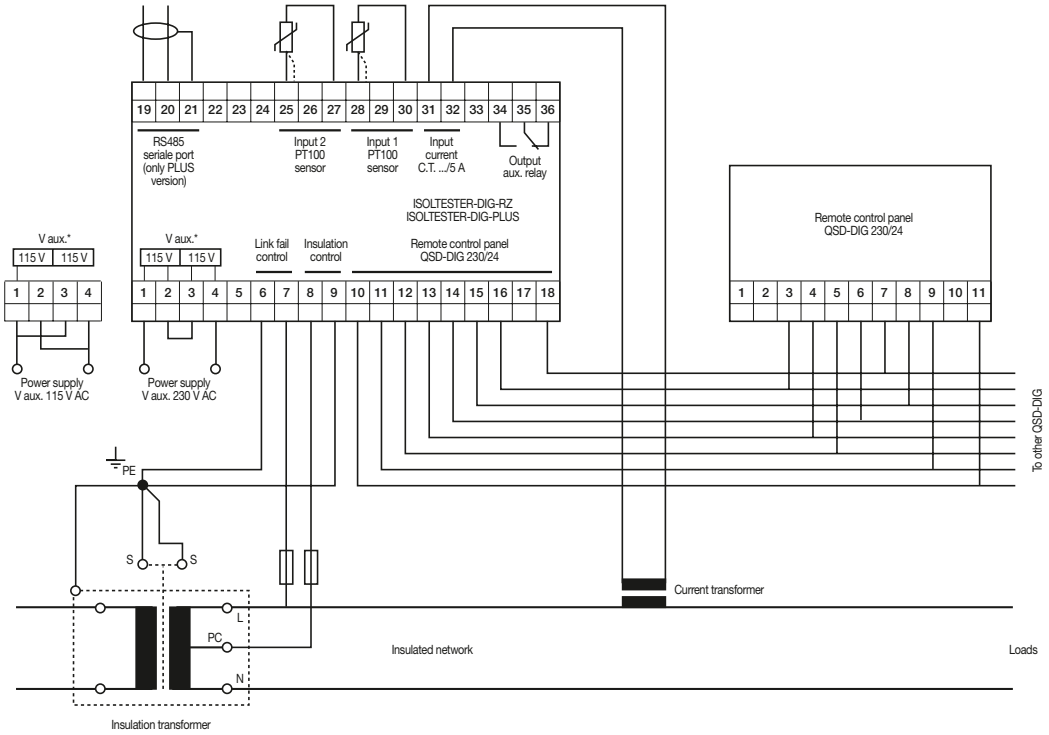
E236-US 1.1D



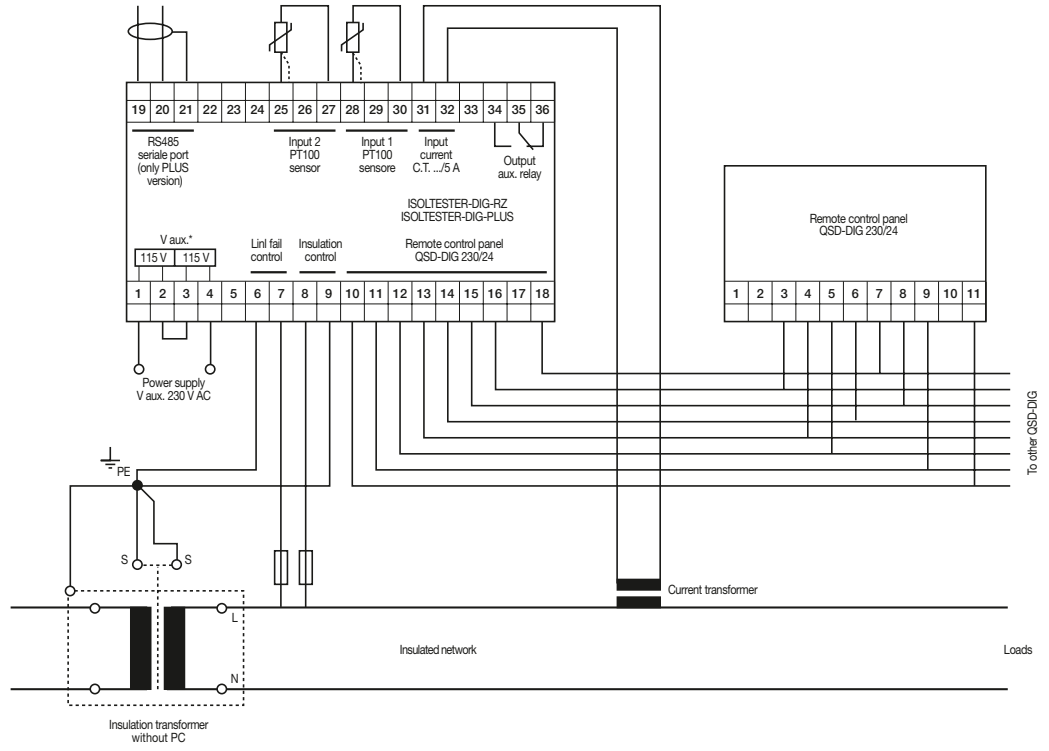
Quick product references

Protection and safety wiring diagrams

ISOLTESTER-DIG, QSD-DIG and SELVTESTER-24 - with transformer with central socket (PC)



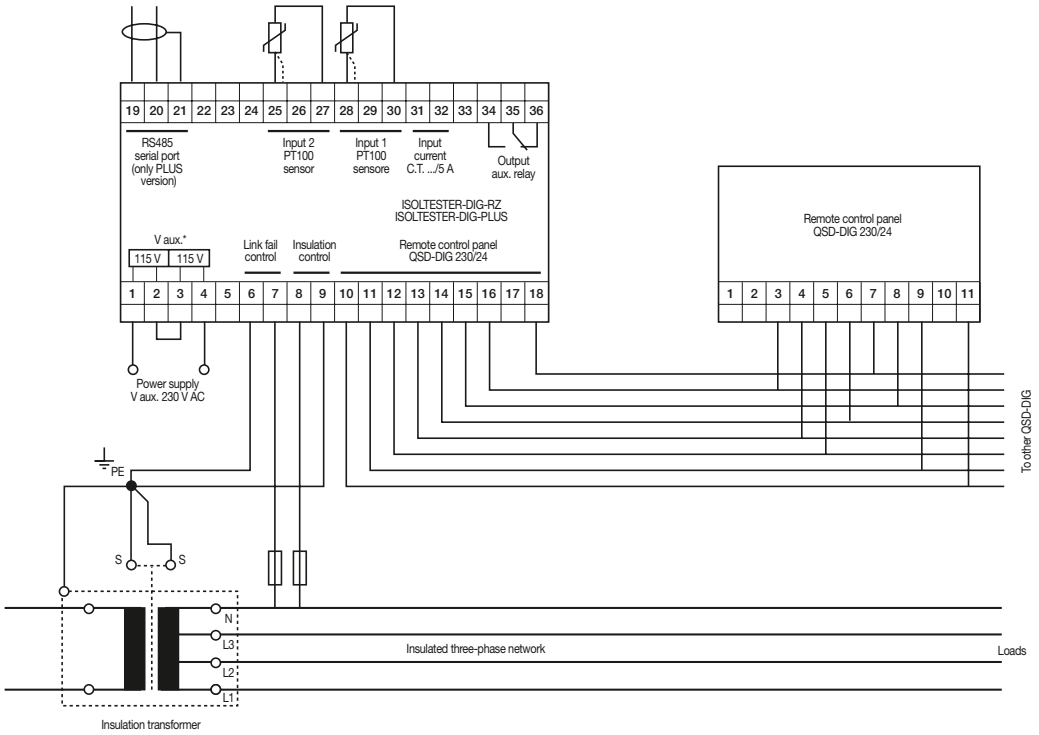
ISOLTESTER-DIG, QSD-DIG and SELVTESTER-24 -



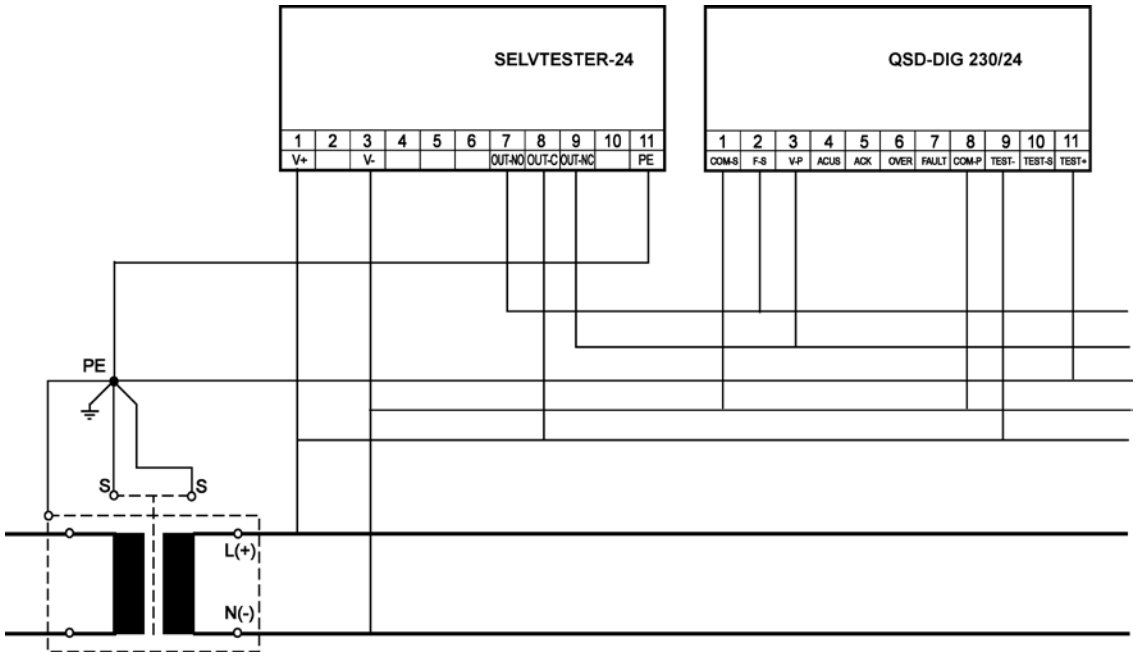
Quick product references

Protection and safety wiring diagrams

ISOLTESTER-DIG, QSD-DIG and SELVTESTER-24 -



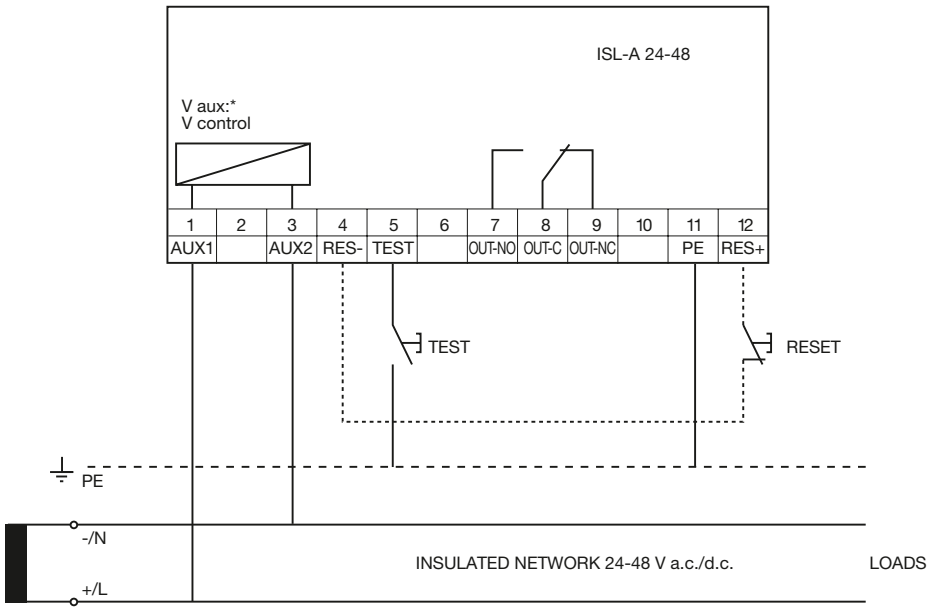
ISOLTESTER-DIG, QSD-DIG and SELVTESTER-24 -



Quick product references

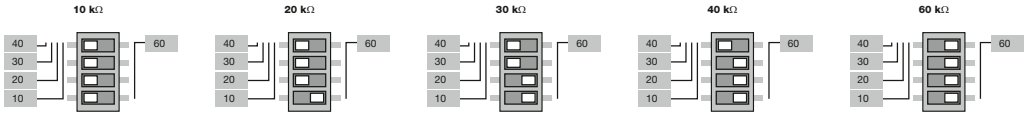
Protection and safety wiring diagrams

ISL-A 24-48



MICROSWITCH SETTINGS

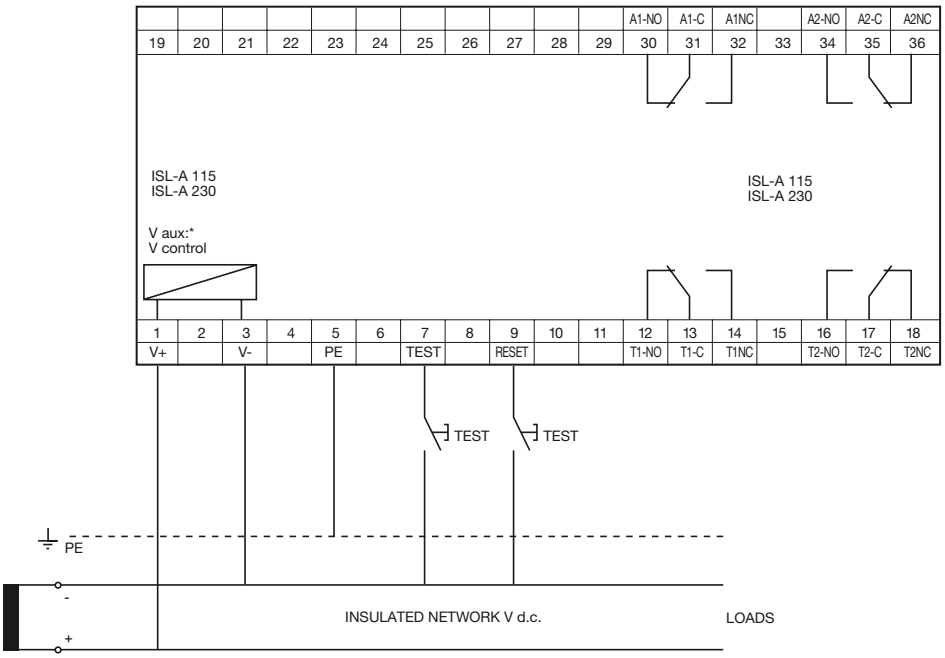
The front microswitches allow the insulation threshold level to be adjusted between 10 and 60 kW, as shown below:



Quick product references

Protection and safety wiring diagrams

ISL-A 115 and ISL-A 230



MICROSWITCH SETTINGS

The front microswitches are used for adjusting the insulation threshold level, enabling the fail-safe function and configuring the reset mode for both the alarm and trip thresholds.

Microswitches A, B, C, D for programming the trip and alarm thresholds:

ALARM		TRIP	
300 kΩ:	A=0, B=0, C=0, D=0	100 kΩ:	A=0, B=0, C=0, D=0
150 kΩ:	A=1, B=0, C=0, D=0	60 kΩ:	A=1, B=0, C=0, D=0
80 kΩ:	A=1, B=1, C=0, D=0	40 kΩ:	A=1, B=1, C=0, D=0
50 kΩ:	A=1, B=1, C=1, D=0	20 kΩ:	A=1, B=1, C=1, D=0
30 kΩ:	A=1, B=1, C=1, D=1	10 kΩ:	A=1, B=1, C=1, D=1

Microswitch E for configuring the FAIL SAFE mode

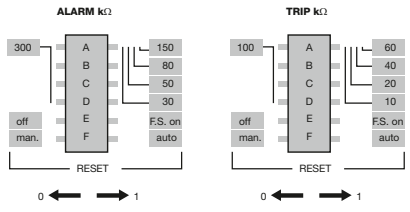
E=0 fail safe mode disabled

E=1 fail safe mode enabled

Microswitch F for configuring the RESET mode

F=0 manual reset

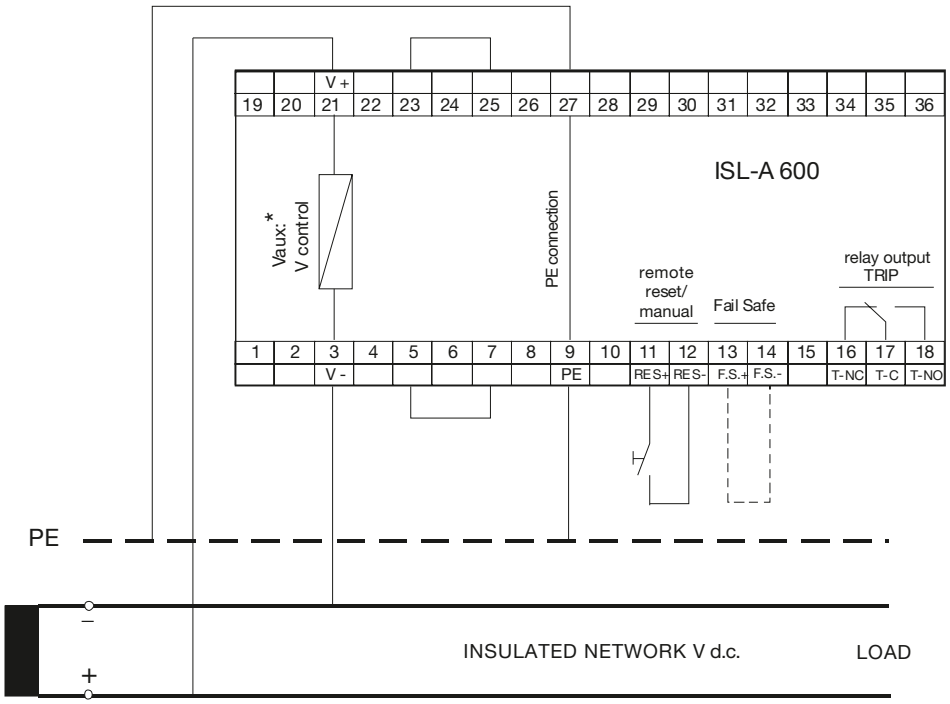
F=1 automatic reset



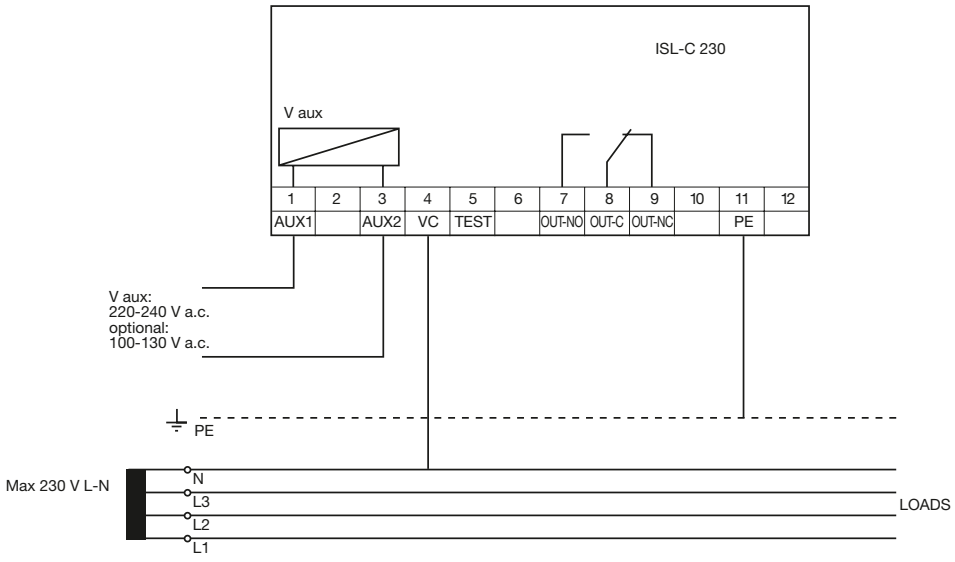
Quick product references

Protection and safety wiring diagrams

ISL-A 600



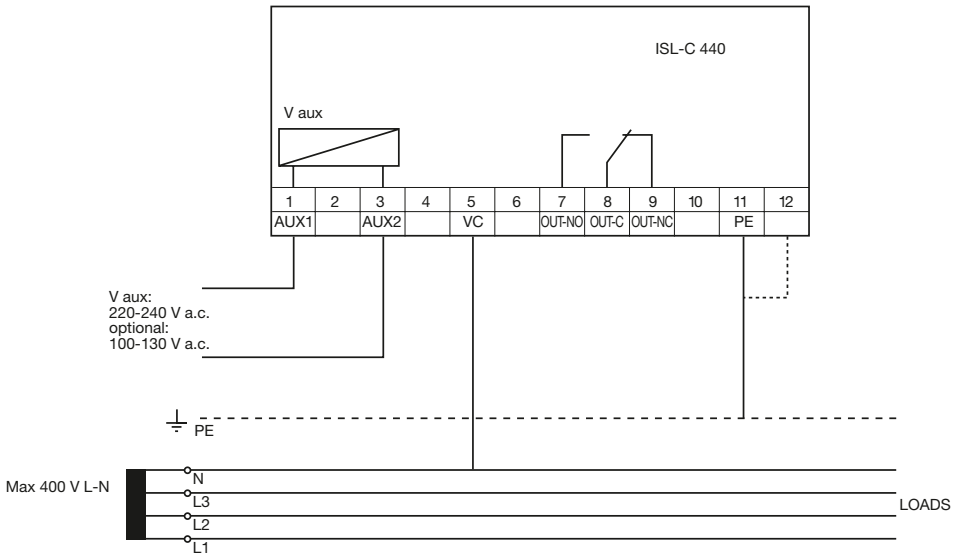
ISL-C 230



Quick product references

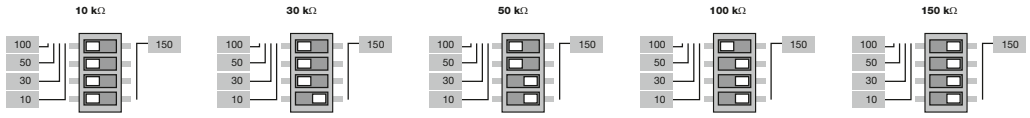
Protection and safety wiring diagrams

ISL-C 440



MICROSWITCH SETTINGS

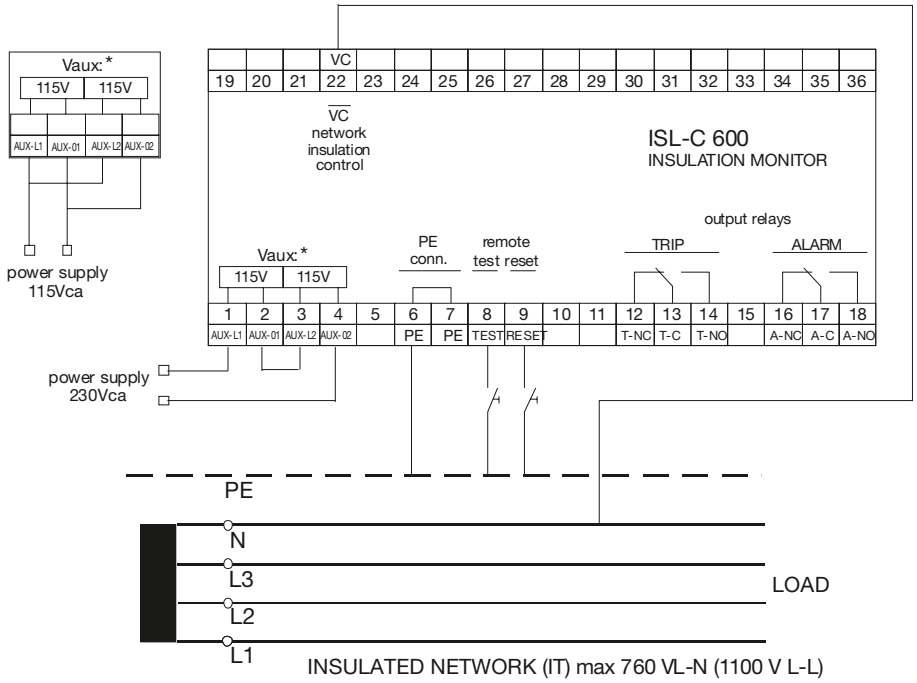
The front microswitches are used for adjusting the insulation threshold level between 10 and 150 kW, as shown below:

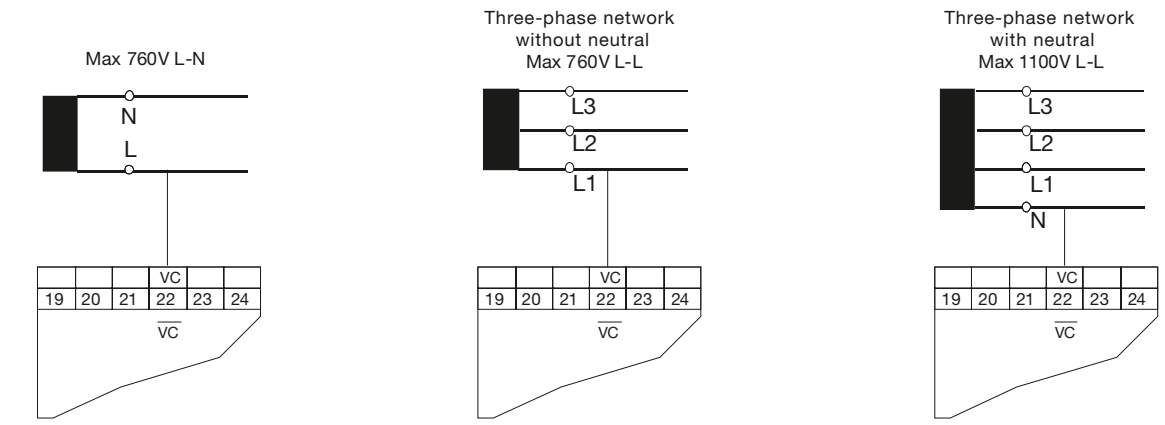


Quick product references

Protection and safety wiring diagrams

ISL-C 600

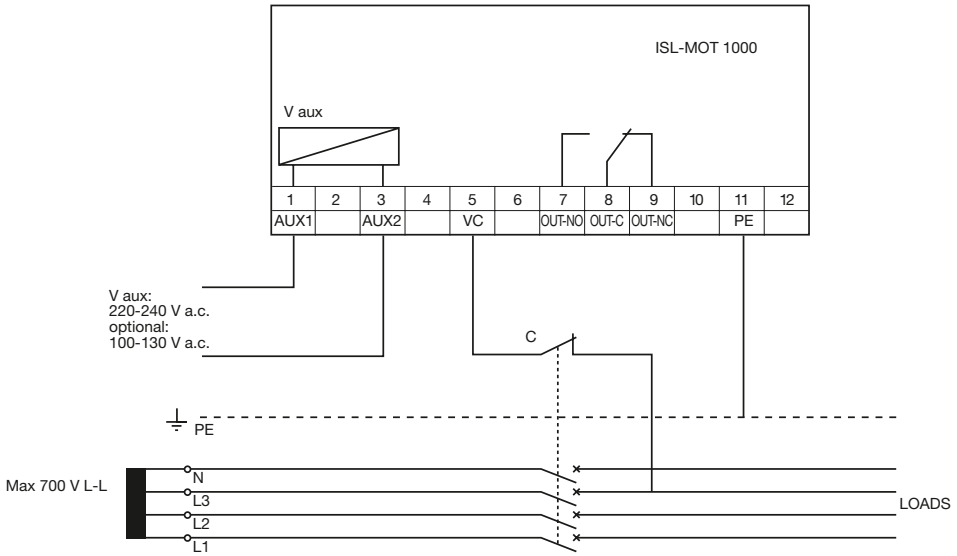




Quick product references

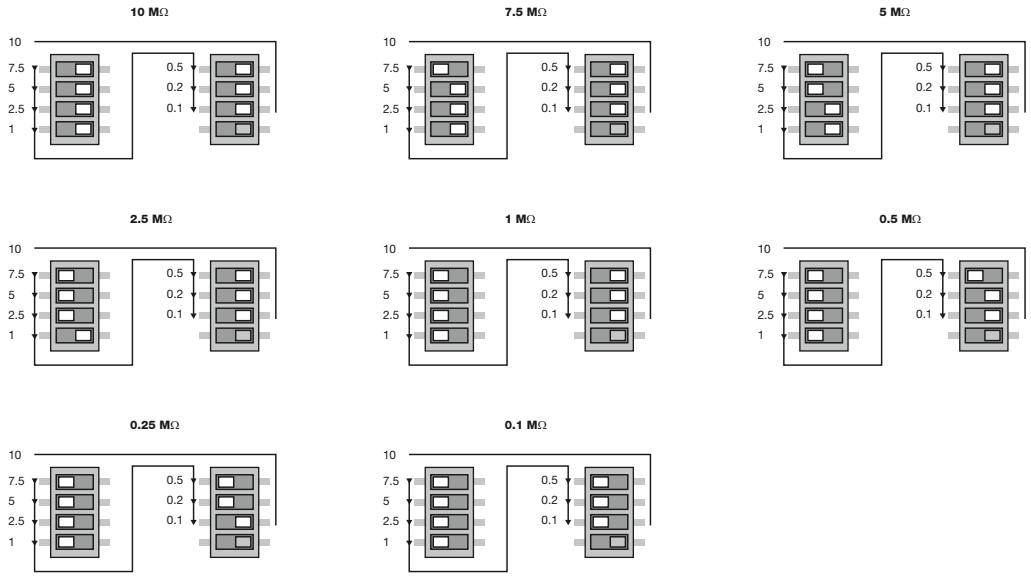
Protection and safety wiring diagrams

ISL-MOT 1000



MICROSWITCH SETTINGS

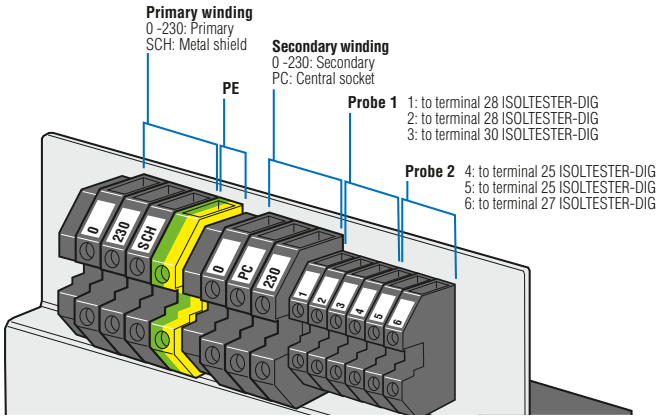
The front microswitches are used for adjusting the insulation threshold level between 0.1 and 10 MW. A total of 7 microswitches are used, divided into two groups as shown below:



Quick product references

Protection and safety wiring diagrams

TI



Quick product references

Command and signaling wiring diagrams

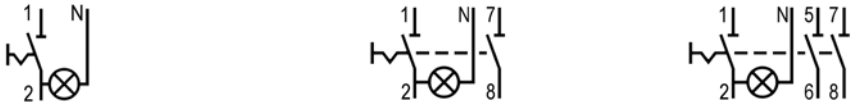
E200/SD 200/SHD 200



E210



ON / OFF switch



Off switches with indicator lamps

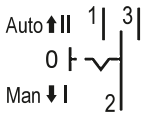


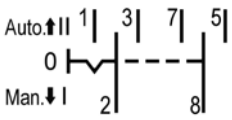
Change-over switches

Quick product references

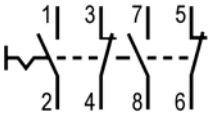
Command and signaling wiring diagrams

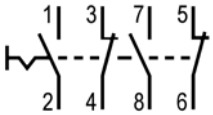
E210 group switches

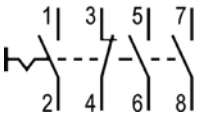




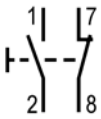
E210 control switches



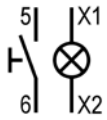


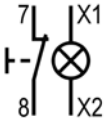


E210 pushbutton



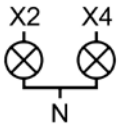
E210 luminous Pushbutton

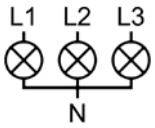




E210 indicator Light







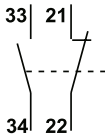
ESB EN

Contact Blocks

EH 04-20



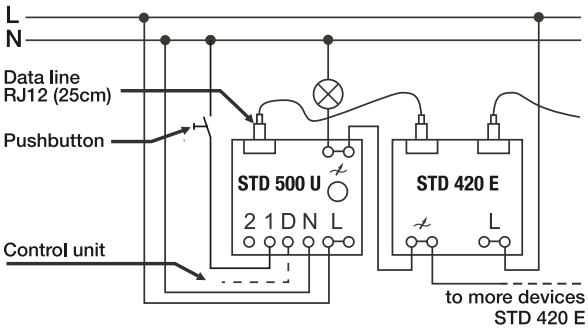
EH 04-11



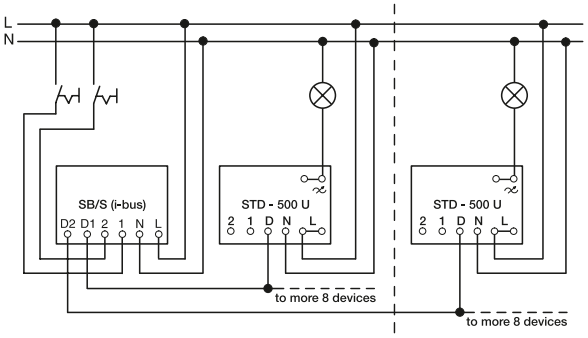
Quick product references

Command and signaling wiring diagrams

STD



STD-500 U

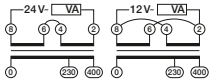


STD-500 U, SB/S or PSB/S

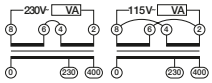
TM-C, TM-S, TM-I

TM-C

Label on product:
12-24 V output



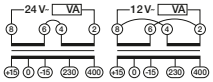
115-230 V output



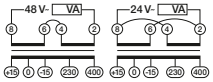


TM-S, TM-I

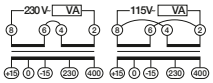
Label on product:
12-24 V output TM-S

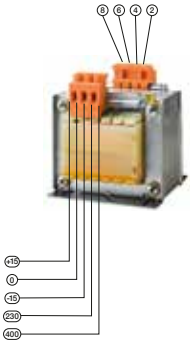


24-48 V output TM-S



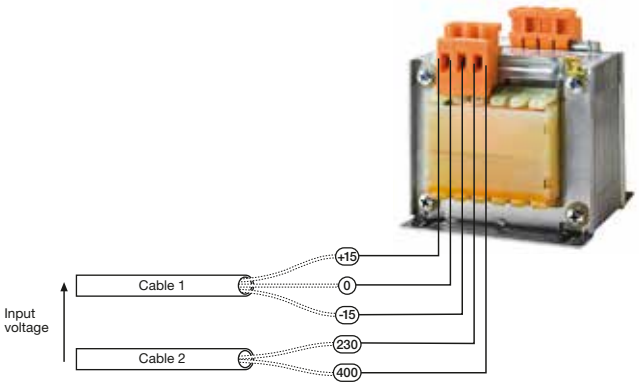
115-230 V output TM-I





Primary voltage TM-I, TM-S

		Cable 2	
		230	400
Cable 1	-15	215V	385V
	0	230V	400V
	15	245V	415V

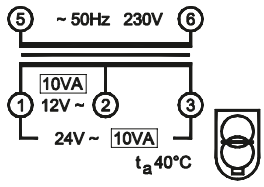


Quick product references

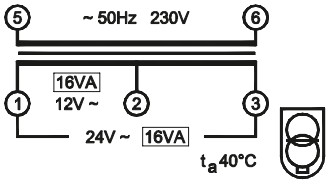
Command and signaling wiring diagrams

TS-C

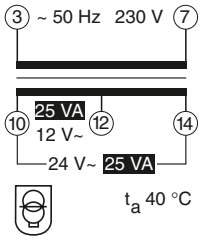
TS10/12-24 C



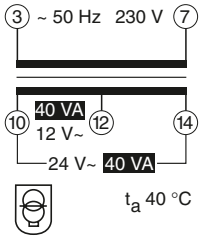
TS16/12-24 C



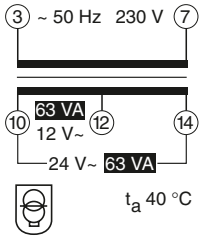
TS25/12-24 C



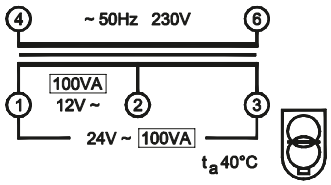
TS40/12-24 C



TS63/12-24 C

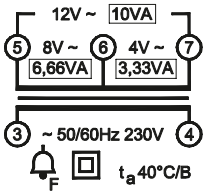


TS100/12-24 C

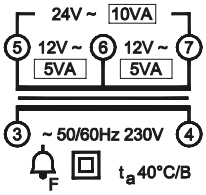


TM

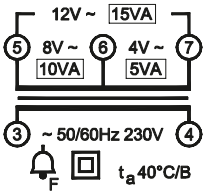
TM10/12



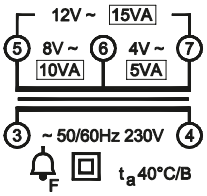
TM10/24



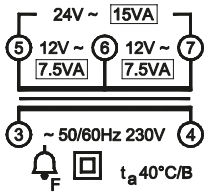
TM15/12



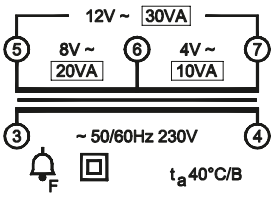
TM15/12 ES



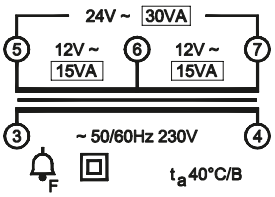
TM15/24



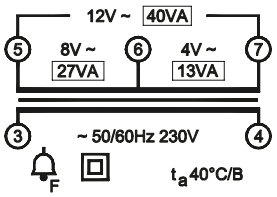
TM30/12



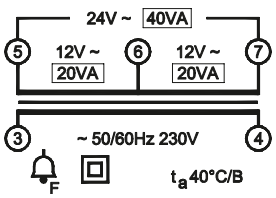
TM30/24



TM40/12



TM40/24

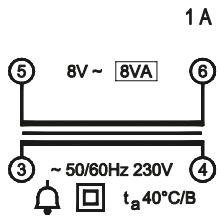


Quick product references

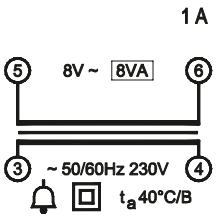
Command and signaling wiring diagrams

TS

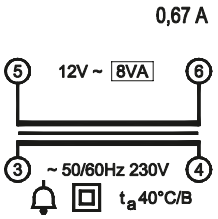
TS8/8



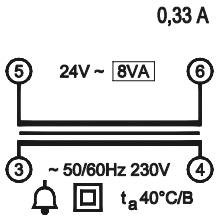
TS8/8 ES



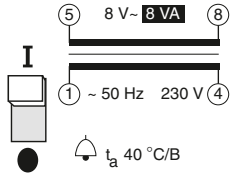
TS8/12



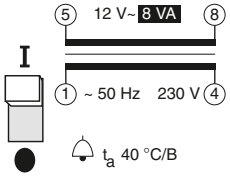
TS8/24



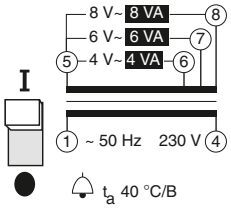
TS8/8 SW



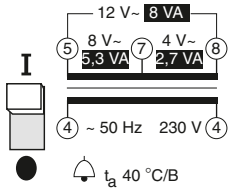
TS8/12 SW



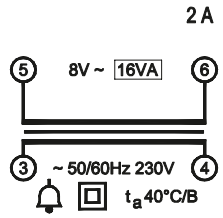
TS8/4-6-8 SW



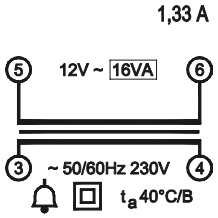
TS8/4-8-12 SW



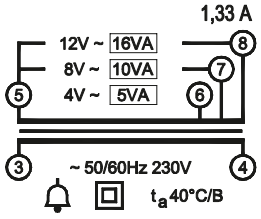
TS16/8



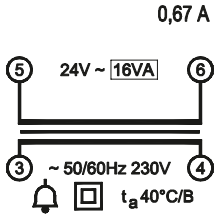
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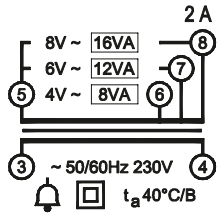
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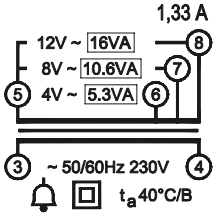
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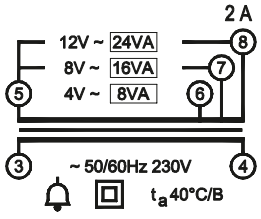
TS16/4-6-8



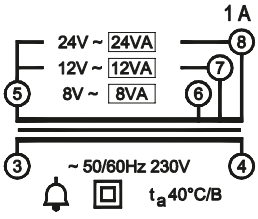
TS16/4-8-12



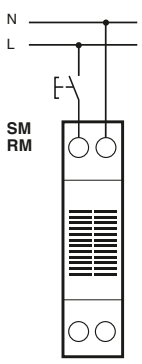
TS24/4-8-12

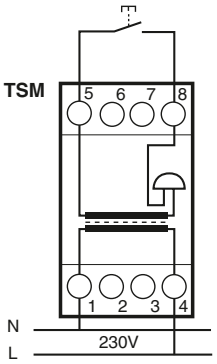


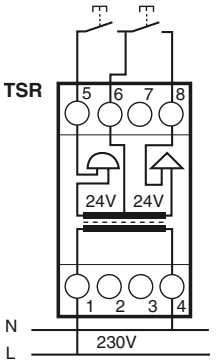
TS24/8-12-24



SM, RM...



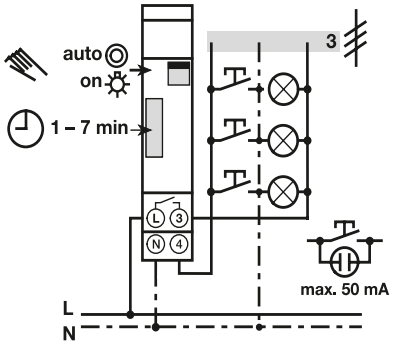




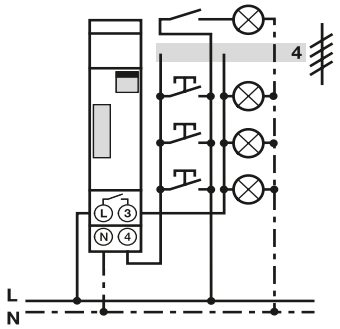
Quick product references

Control and automation wiring diagrams

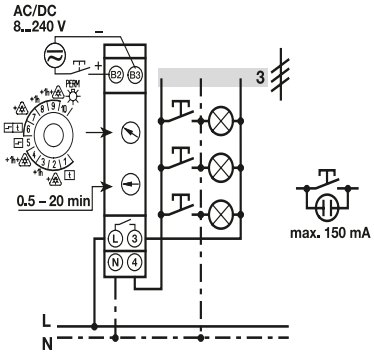
E 232



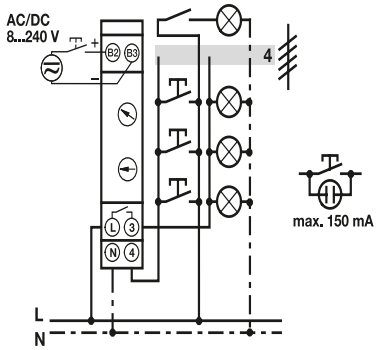
E 232-230 3 conductor



E 232-230 4 conductor



E 232E-8/230 Multi 10 3 conductor

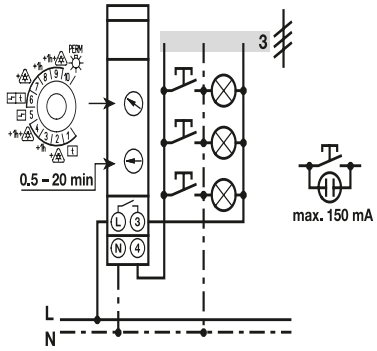


E 232E-8/230 Multi 10 4 conductor

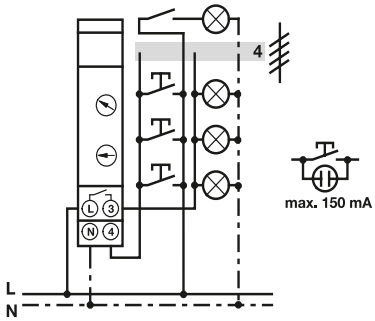
Quick product references

Control and automation wiring diagrams

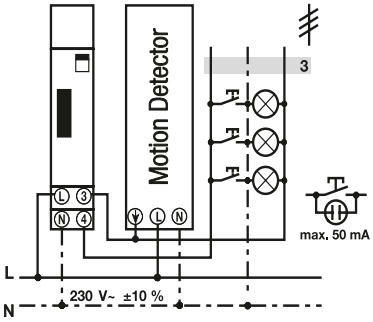
E 232



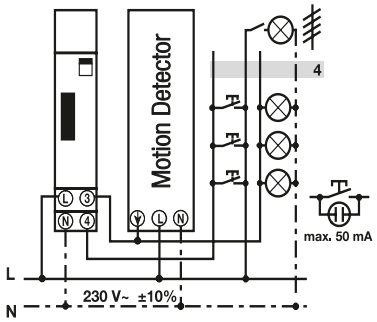
E 232E-230 Multi 10 3 conductor



E 232E-230 Multi 10 4 conductor



E 232E-8/230 Multi 10 3 conductor
E 232E 8/230 3 conductor
E 232E 230 Multi 10 3 conductor
E 232E 230 N 3 conductor
E 232-230 3 conductor



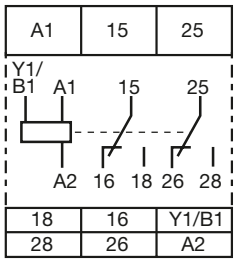
E 232E-8/230 Multi 10 4 conductor
E 232E 8/230 4 conductor
E 232E 230 Multi 10 4 conductor
E 232E 230 N 4 conductor
E 232-230 4 conductor

Quick product references

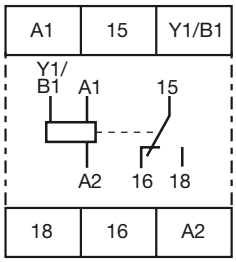
Control and automation wiring diagrams

E 234

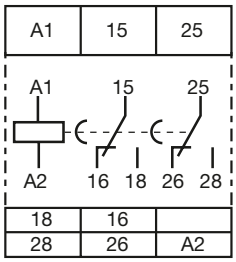
CT-MFD.21



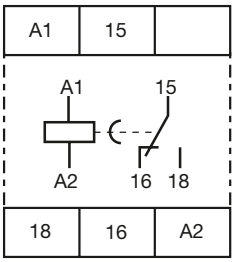
CT-MFD.12



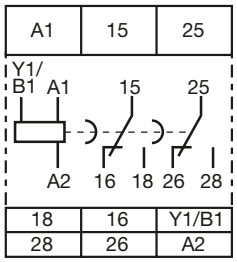
CT-ERD.22



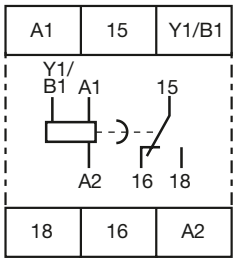
CT-ERD.12



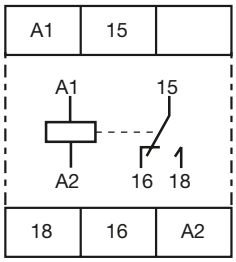
CT-AHD.22



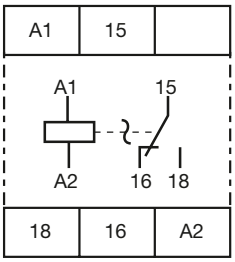
CT-AHD.12



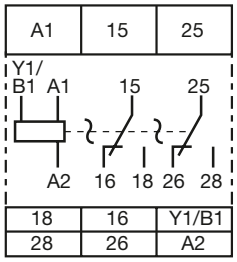
CT-VWD.12



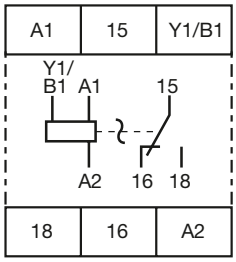
CT-EBD.12



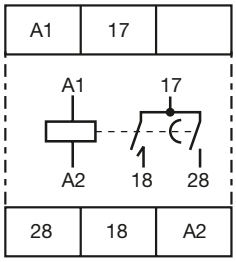
CT-TGD.22



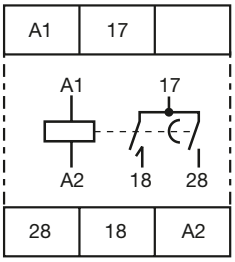
CT-TGD.12



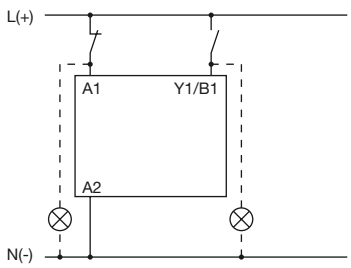
CT-SDD.22



CT-SAD.22



E 234

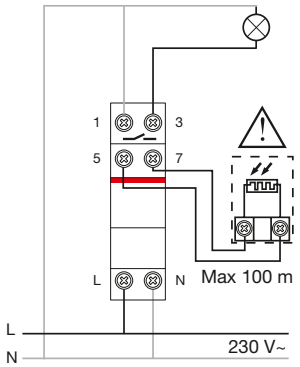


Wiring notes for devices with control input
A parallel load to the control input is possible

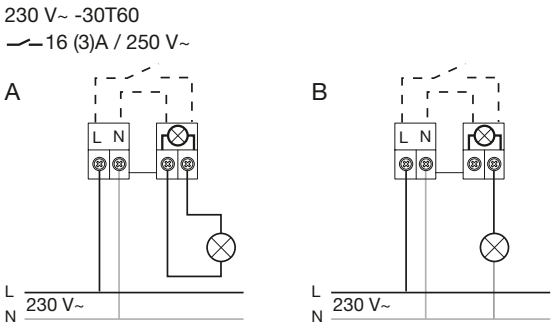
Quick product references

Control and automation wiring diagrams

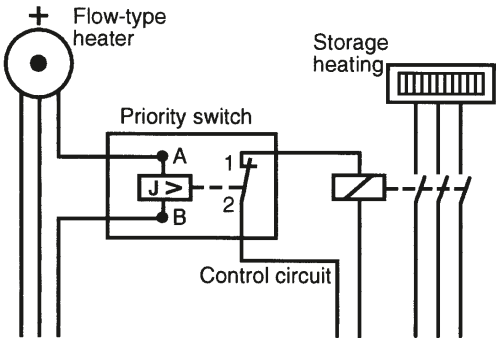
TL1



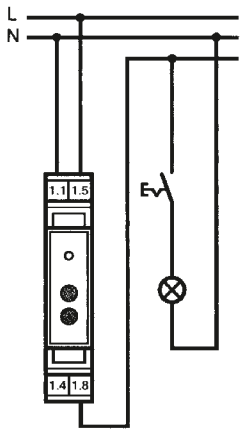
TL1 Pole

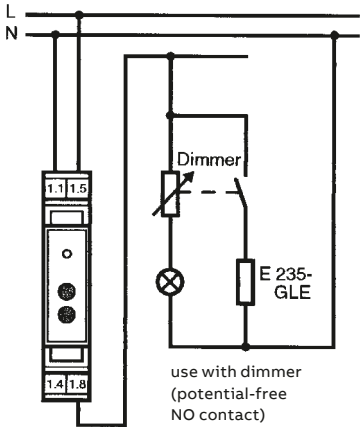


E 450



E 235



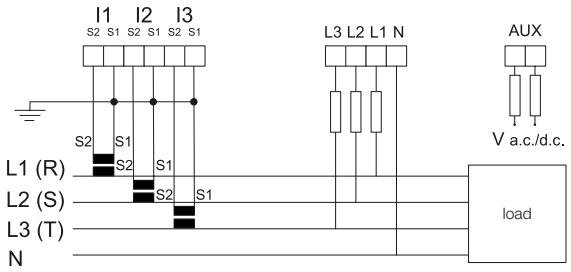


Quick product references

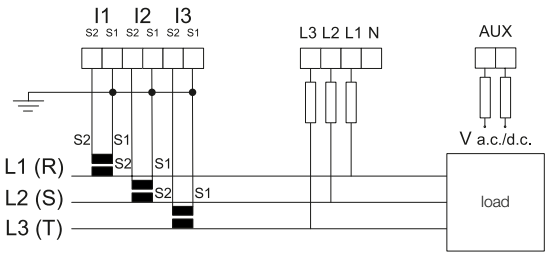
Energy efficiency wiring diagrams

M2M measurement input and auxiliary power supply connections

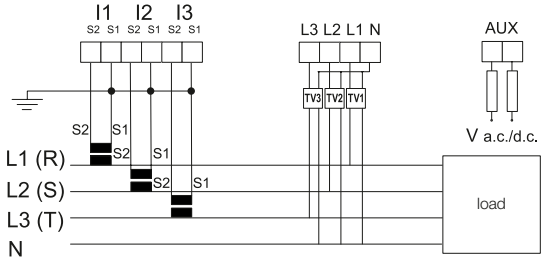
Three-phase + neutral with 3 CT



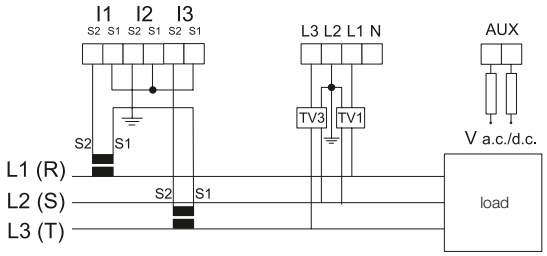
Three-phase with 3 CT



Three-phase + neutral with 3 CT and 3 VT

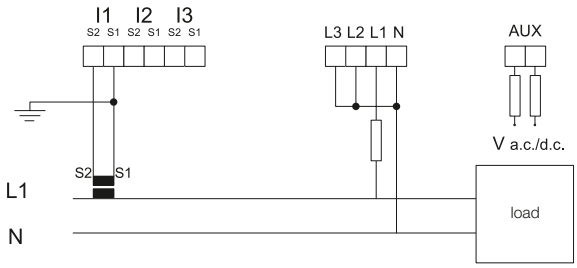


ARON Three-phase with 2 CT and 2 VT

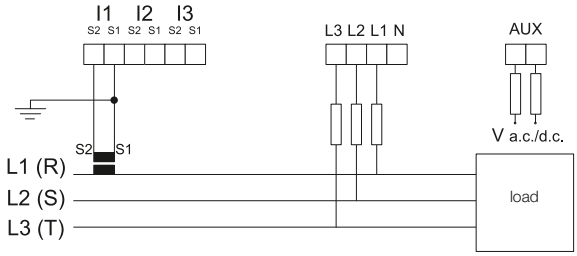


Not suitable for the M2M LV and M2M LV MODBUS models.

Single-phase with 1 CT



Balanced three-phase with 1 CT

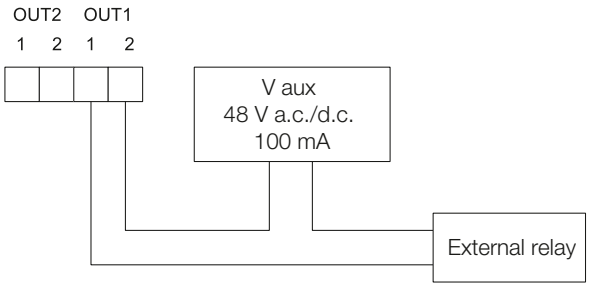


Quick product references

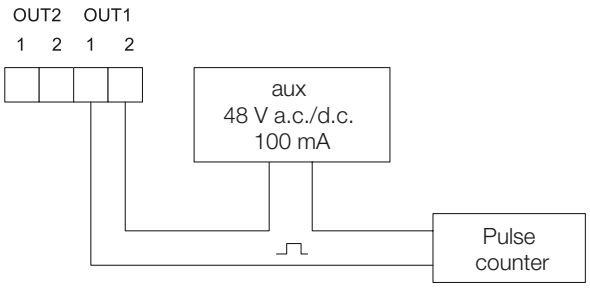
Energy efficiency wiring diagrams

M2M Analogue and digital output connections, digital inputs

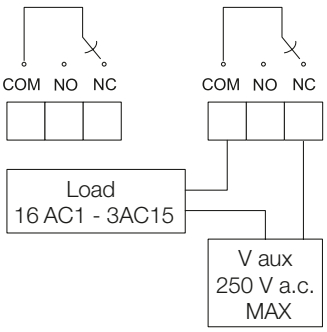
Digital outputs as alarms with external relay for control of loads



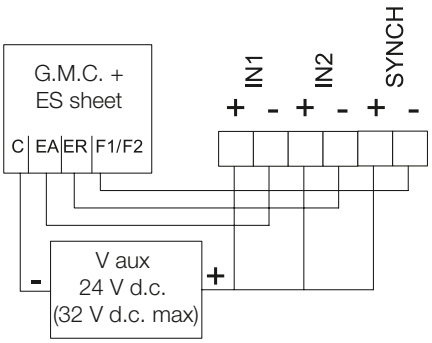
Digital outputs as pulses



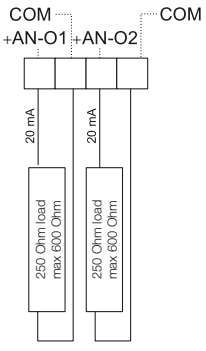
M2M ALARM electromechanical relay outputs



M2M I/O digital inputs (example in NPN mode)



M2M I/O analogue outputs

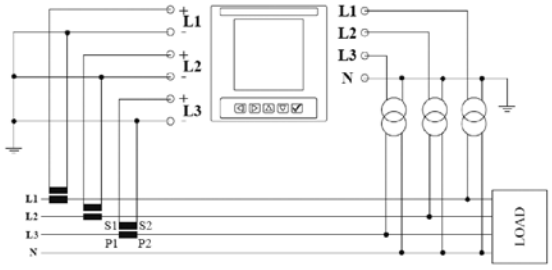


Quick product references

Energy efficiency wiring diagrams

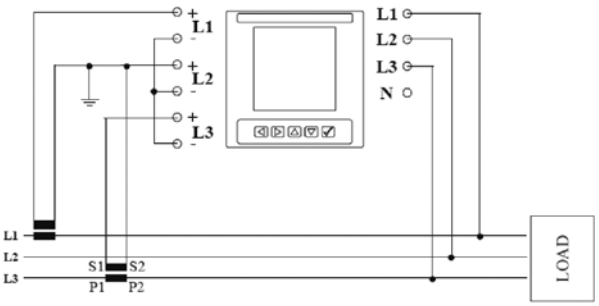
ANR

4 wires insertion

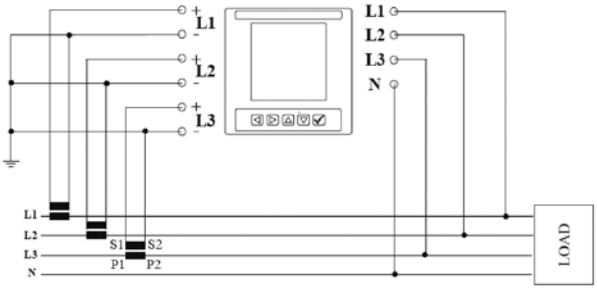


Insertion with 3 CTs and 3 VTs

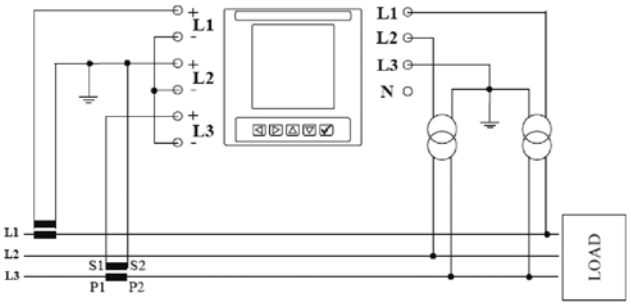
3 wires insertion



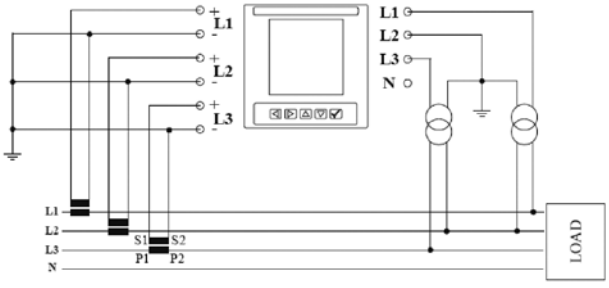
Insertion with 2 CTs



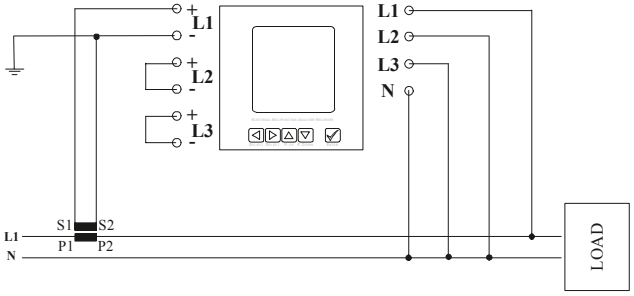
Insertion with 3 CTs



Insertion with 2 CTs and 2 VTs (Aron)



Insertion with 3 CTS and 2 VTs



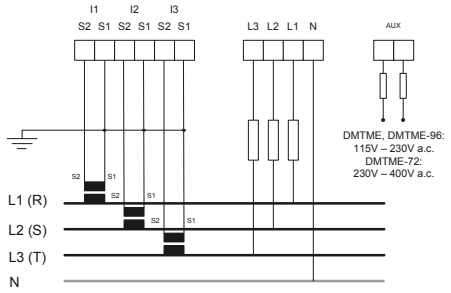
Single phase insertion with 1CT

Quick product references

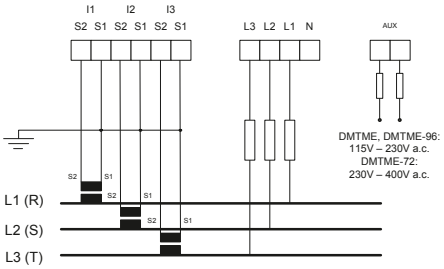
Energy efficiency wiring diagrams

DMTME

Three-phase with neutral and 3 CTs

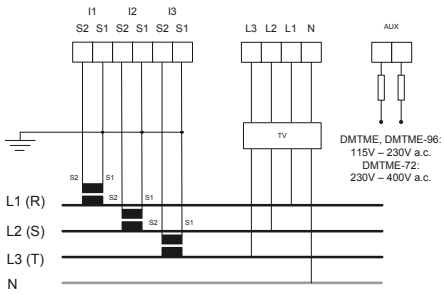


Three-phase with 3 CTs



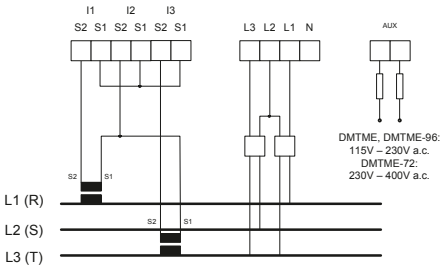
Three-phase with neutral and 3 CTs and 3 VTs

Up to 500 V phase-neutral a direct connection is possible

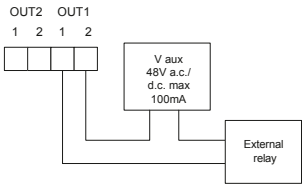


Aron type three-phase with 2 CTs and 2 VTs

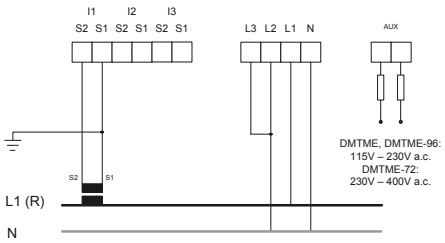
With symmetric and unbalanced network, 3 CTs and up to 800 V, beyond this value must use VT.



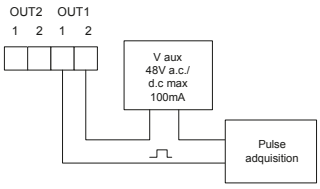
Digital output used as alarm with external relays for load command



Single phase with neutral and 1 CTs



Digital output used as pulses

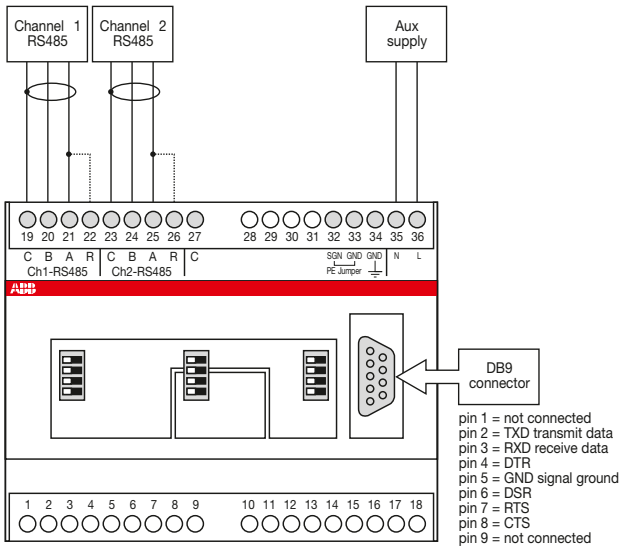


Quick product references

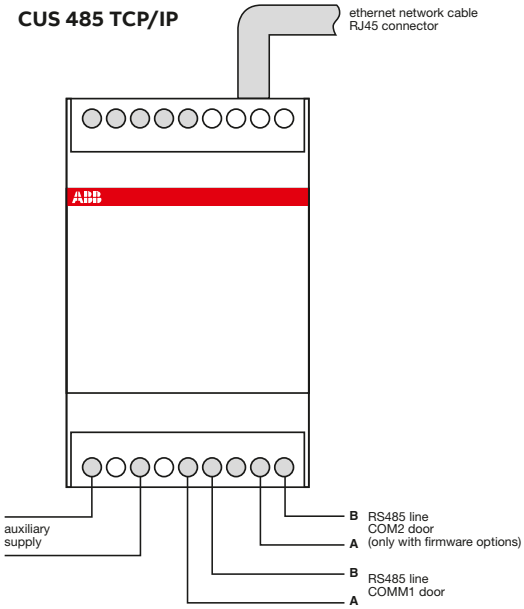
Energy efficiency wiring diagrams

CUS

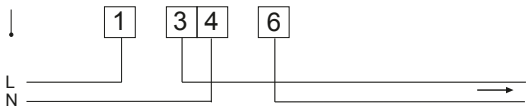
CUS RS485/232



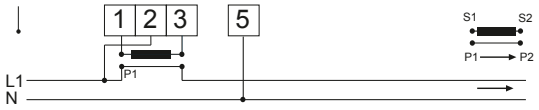
CUS 485 TCP/IP



A series A41

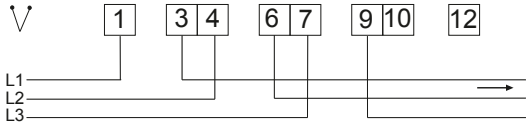


A series A42

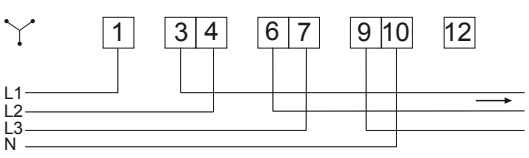


A series A43

3 wire connection, 2 elements



4 wire connection, 3 elements

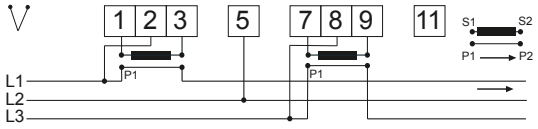


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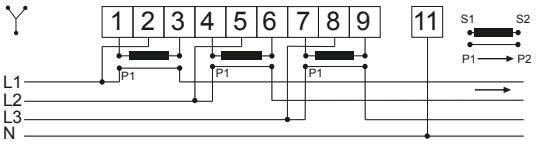
Energy efficiency wiring diagrams

A series A44

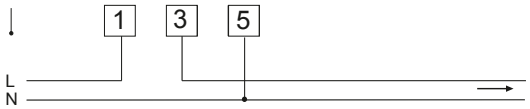
3 wire connection, 2 elements



4 wire connection, 3 elements

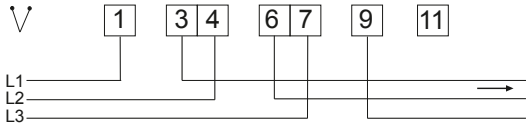


B series B21

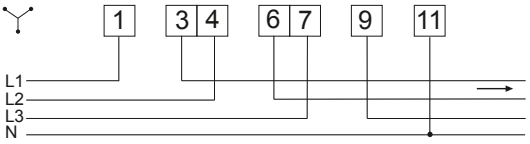


B series B23

3 wire connection, 2 elements

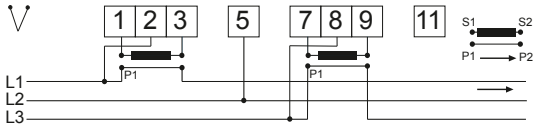


4 wire connection, 3 elements

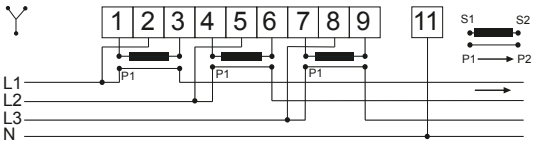


B series B24

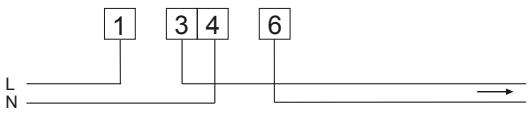
3 wire connection, 2 elements



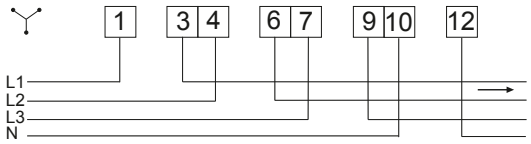
4 wire connection, 3 elements



C series C11



C series C13

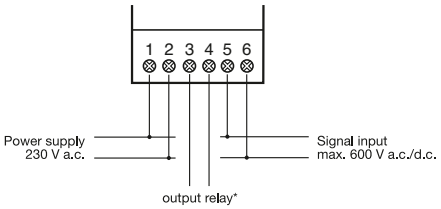


Quick product references

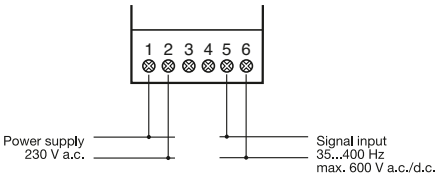
Energy efficiency wiring diagrams

Digital instruments

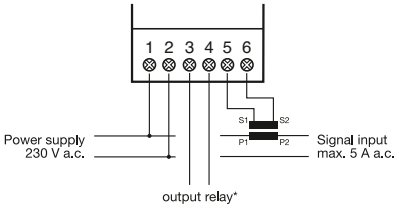
VLMD-1-2 and VLMD-1-2-R
VLMD P and VLMD-R P



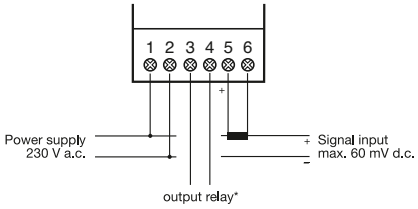
FRZ-DIG



AMTD-1 and AMTD-1-R
AMTD-1 P and AMTD-1-R P

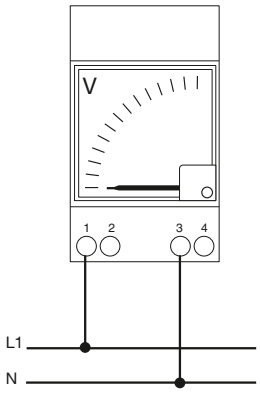


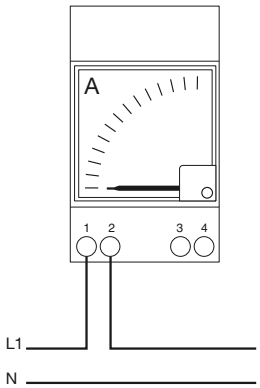
AMTD-2 and AMTD-2-R
AMTD-2 P and AMTD-2-R P



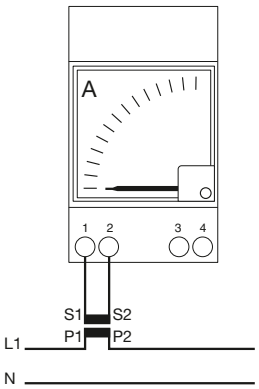
*Only for instruments with output relay

Analogue instruments

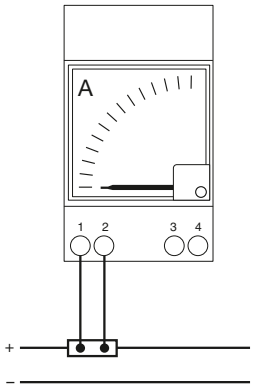




Direct insertion



Indirect insertion using C.T.



Indirect insertion using shunt

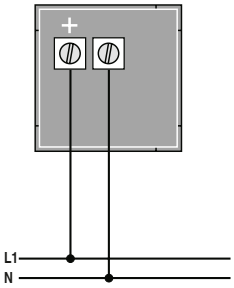
Quick product references

Energy efficiency wiring diagrams

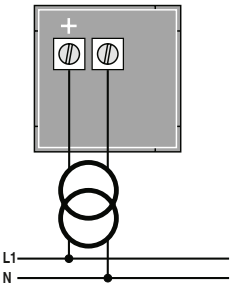
Front panel analogue instruments

Voltmeter for alternating current

Direct insertion

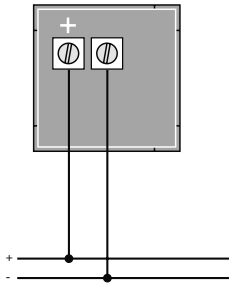


Insertion via VT



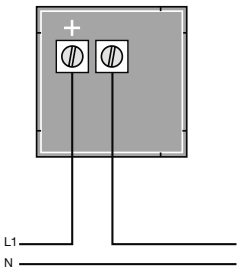
Voltmeter for direct current

Direct insertion

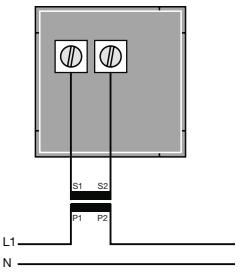


Ammeter for alternating current

Direct insertion

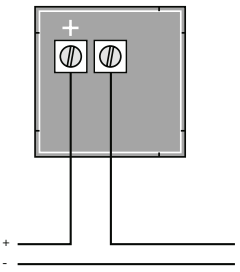


Insertion via CT

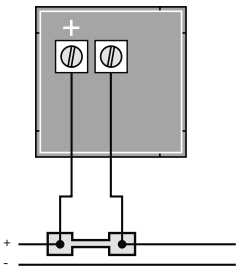


Ammeter for direct current

Direct insertion

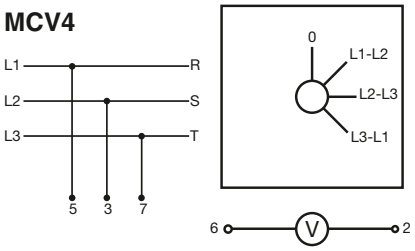


Insertion with Shunt

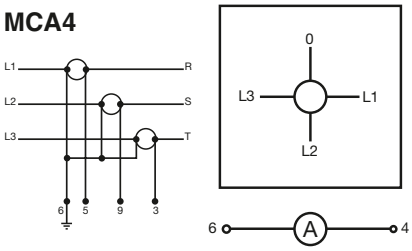


MCV, MCA, QCV and QCA

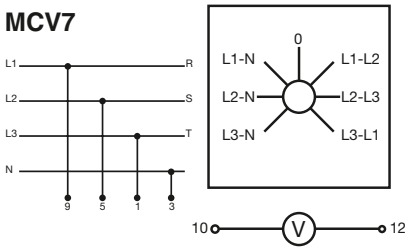
MCV4



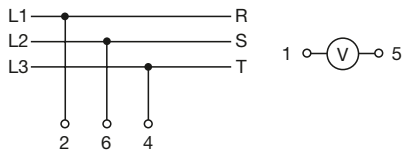
MCA4



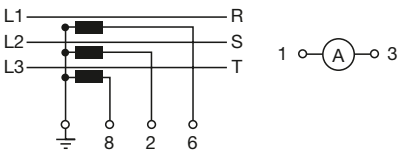
MCV7



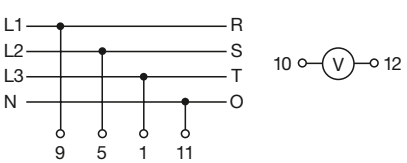
QCV-4



QCA-4



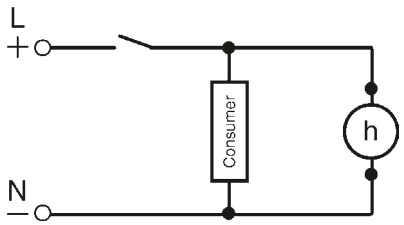
QCV-7



Quick product references

Energy efficiency wiring diagrams

E 233



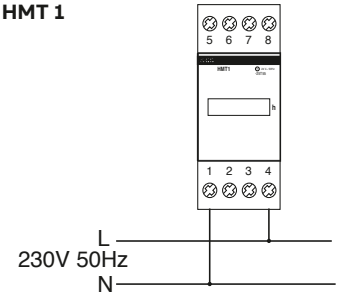
elapsed-time meter



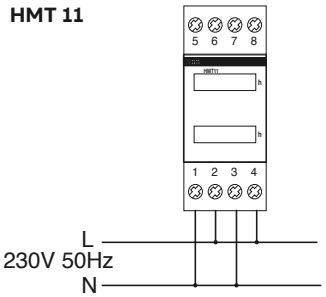
E 233-15/48 DC

HMT

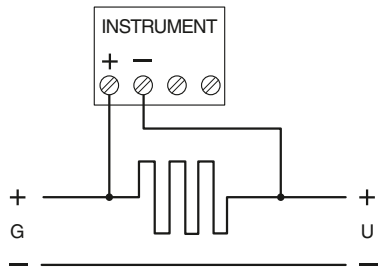
HMT 1



HMT 11

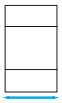
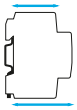
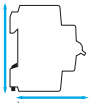


SNT



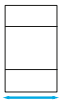
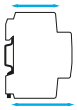
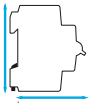
Quick product references

Overall dimensions

Modular products	 Width		 Depth		 Max. dimensions	
	modules	mm	DIN-rail to door	DIN-rail to front	max depth	max heigth
Miniature circuit breakers						
S 301	1	17.5	44	-	69	88
S 301 Na	2	35				
S 302	2	35				
S 303	3	52.5				
S 303 Na	4	70				
S 304	4	70				
S 300 with bottom aux. cont.	See drawings					
S 201 S	1	17.5	44	-	69	89
S 203 S	3	52.5				
S 201 U	1	17.5	44	-	71	92
S 202 U	2	35				
S 203 U	3	52.5				
S 204 U	4	70				
S 201 UDC	1	17.5	44	-	71	92
S 202 UDC	2	35				
S 203 UDC	3	52.5				
S 204 UDC	4	70				
SU 201 M	1	17.5	49.5	-	69	111
SU 202 M	2	35				
SU 203 M	3	52.5				
SU 204 M	4	70				
SN 201	1	17.6	43.5	58	68.9	91.8
S 201 80-100A	1	17.5	44	58	69	88.8
S 202 80-100A	2	35				
S 203 80-100A	3	52.5				
S 204 80-100A	4	70				
S750DR	See drawings					
S 801	1.5	26.5	52	82.5	88.5	95
S 802	3	53				
S 803	4.5	79.5				
S 804	6	106				
S 801_-R	1.5	26.5	52	82.5	88.5	142
S 802_-R	3	53				
S 803_-R	4.5	79.5				
S 804_-R	6	106				

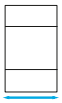
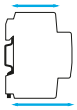
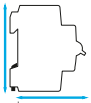
Quick product references

Overall dimensions

Modular products	 Width		 Depth		 Max. dimensions	
	modules	mm	DIN-rail to door	DIN-rail to front	max depth	max heigth
Residual current devices						
F 202	2	35	44	-	69	88
F 204	4	70				
F 202 B	2	35	44	-	69	85
F 204 B	4	70				
F 204 B high ratings	4	72	44	60	69.5	85
F 204 125 A	2	72	44	60	69.5	-
DDA 200	See drawings					
DS 202 up to 40 A	4	70	44	-	69	93
DS 203 up to 40 A	5	87.5				
DS 204 up to 40 A	6	105				
DS 202 50, 63 A	4	70	44	-	69	93
DS 203 50, 63 A	7	122.5				
DS 204 50, 63 A	8	140				
DS201	2	35	44	58	69	85
DS202C						
DS203NC	4	70.4	-	-	69	85
DSE201 - DSE201 M	1	17.5	-	-	69	100 - 115
DDA 800	See drawings					
RD2	2	35	44	58	-	85
RD3	3.5	58.2	44.2	57.9	57.9	85
ELR	See drawings					
Toroidal transformers	See drawings					
AFDD						
S-ARC1	2	35	-	-	69	85
Auxiliary elements and accessories						
S 2C-A_	0.5	8.8	44	-	69	85
S 2C-H11L						
S 2C-H20L						
S 2C-H02L						
S 2C-S/H 6R						
S 2C-H 6R						
S 2C-UA_	1	17.4	44	-	74	85
F 2C-A_						
S 2C-OVP						
F 2C 125A-SH/S2C-Nt	0.5	8.8	44	-	70	88
Bottom fixing aux. cont.	See drawings					
S 2C-EST	See drawings					
S 2C-BP	1	17.5	44	-	68	85

Quick product references

Overall dimensions

Modular products	 Width		 Depth		 Max. dimensions	
	modules	mm	DIN-rail to door	DIN-rail to front	max depth	max heigth
S 2C-CM	See drawings					
F 2C-ARI	See drawings					
F 2C-CM	See drawings					
F 2C-ARH	See drawings					
F 2C-ARH-T	See drawings					
Aux. elements for SN201	See drawings					
Aux. elements for S280 and S290	0.5	8.75	44	-	73	90
	1	17.5				
S800-AUX	See drawings					
S800-RSU-H	See drawings					
S800-RD+S800-RHE	See drawings					
Terminal covers	See drawings					
Enclosures	See drawings					
Flush frame	See drawings					
Busbars	See drawings					
Me flange	See drawings					
OH_2A_	See drawings					
Protection and safety						
Type 1-7 SPD 1 pole	1	17.8	85			
Type 1-7 SPD 4 poles /(TS)	4	89				
Type 1+2 25kA or 12.5kA (440V) SPD 1 pole /(TS)	2	36	52	58	-	108.1/(109.2)
Type 1+2 25kA or 12.5kA (440V) SPD 2 poles /(TS)	4	72				
Type 1+2 25kA or 12.5kA (440V) SPD 3 poles /(TS)	6	108				
Type 1+2 25kA or 12.5kA-440V SPD 4 poles	8	Type 1+2 25kA				
Type 1+2 12.5kA 275V, Type 2 (RES) or Type 2+3 SPD 1 poles /(TS)	1	17.8				88/(95)
Type 1+2 12.5kA 275V, Type 2 (RES) or Type 2+3 SPD 2 poles	2	36				
Type 1+2 12.5kA 275V, Type 2 (RES) or Type 2+3 4 poles /(TS)	3	35.6				
Type 1+2 12.5kA 275V, Type 2 (RES) or Type 2+3 4 poles /(TS)	4	71.2				
E90 20/32 and PV (1000 VDC) 1 pole	1	17.5	-	-	64	85
E90 20/32 1 pole + N	2	35				
E90 20/32 and PV (1000 VDC) 2 poles	2	35				
E90 20/32 3 poles	3	52.5				
E90 20/32 3 poles + N	4	70				
E90 20/32 4 poles	4	70				

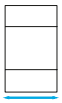
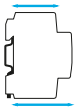
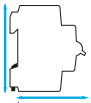
Quick product references

Overall dimensions

Modular products	Width		Depth		Max. dimensions	
	modules	mm	DIN-rail to door	DIN-rail to front	max depth	max heigth
E90/32 PV 1500	See drawings					
E90 50 1 pole						
E90 50 1 pole + N						
E90 50 2 poles						
E90 50 3 poles						
E90 50 3 poles + N						
E90 125 1 pole	See drawings					
E90 125 1 pole + N						
E90 125 2 poles						
E90 125 3 poles						
E90 125 3 poles + N						
E90 30 Class J 1 pole	See drawings					
E90 30 Class J 2 poles						
E90 30 Class J 3 poles						
E90 60 Class J 1 pole	See drawings					
E90 60 Class J 2 poles						
E90 60 Class J 3 poles						
ILTS-E 1 pole	1.5	27	44	70	70	90
ILTS-E 2 poles	3	54				
ILTS-E 3 poles	4.5	81				
ILTS-E 4 poles	6	108				
SQZ3	3	52.5	44	58	58	85
E 236 US1	2	35	44	60	65	87
E 236 US2						
E 236 US1.1	1	17.5	44	60	60	87
E 236 US2.1						
E 236 US1.1D						
Isoltester-DIG	6	105	44	56	61	90
Selvtester-24	3	52.5	44	58	58	85.5
QSD	See drawings					
TI	See drawings					
QSO	See drawings					
ISL-A 115	6	105	44	58	65	90
ISL-A 230						
ISL-A 600						
ISL-C 600						
ISL-A 24-28	3	52.5	44	58	65	85.5
ISL-C 230						
ISL-C 440						
ISL-MOT 1000						

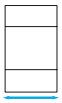
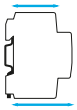
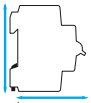
Quick product references

Overall dimensions

Modular products	 Width		 Depth		 Max. dimensions	
	modules	mm	DIN-rail to door	DIN-rail to front	max depth	max heigth
Command and signaling						
E201	1	17.5	44	58	70	85
E202	2	35				
E203	3	52.5				
E204	4	70				
E463	2.5	44	44	58	70	85
E210	0.5	9	43.5	58	67.9	85
E210	1	18				
ESB 20	1	17.5	44	58	58	85
ESB 24	2	35				
ESB 40	3	54				
ESB 63						
EN 20	1	17.5	44	58	58	85
EN 24	2	35				
EN 40	3	54				
EN 63						
E290	See drawings					

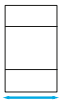
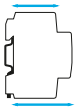
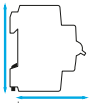
Quick product references

Overall dimensions

Modular products	 Width		 Depth		 Max. dimensions	
	modules	mm	DIN-rail to door	DIN-rail to front	max depth	max heigth
STD	See drawings					
E 234 1 concact	1	17.5	43.4	58	58	70
E 234 2 contacts						80
TS 25 C	4	70	44	58	58	85
TS 40 C	4	70				
TS 63 C	5	87.5				
TM10	2	35	44	58	58	85
TM15						
TS8...16						
TM30	3	52.5				
TM40						
TS24						
SM	1	17.5	44	58	58	85
RM						
TSM	2	35				
TSR						
CP-D 15/0.83	1	18	44	58	58	91
CP-D 24/0.42						
CP-D 24/2.5	4	71				
CP-D 15/2.1	3	53				
CP-D 24/1.3						
CP-D 24/4.2	5	89.9				
TM-_	See drawings					
M117_	2.5	44	44	60	60	85
M1011	3	53				
M1363						
MA1-8001	See drawings					

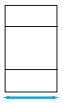
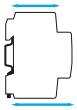
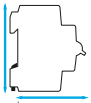
Quick product references

Overall dimensions

Modular products	 Width		 Depth		 Max. dimensions	
	modules	mm	DIN-rail to door	DIN-rail to front	max depth	max heigth
Control and automation						
AT1e	1	17.8	44	60	60	88.5
AT1e-R						
AT2, AT2e	2	35				
AT2-R, AT2e-R						
AT2-7R, AT2e-7R						
AT72e	See drawings					
D Line	2	35	43.8	60	60	90
E 232-230	1	17.5	44	59	59	88
E 232 E					58	90
TWA-1	2	35.8	43.8	60	60	85
TWA-2						
T1, T1 PLUS	1	17.5	-	-	65	86
E 450	1	17.5	-	60	60	85
LSS1/2	5	87.5	-	58	58	85
E 235	1	17.5	-	58	58	85

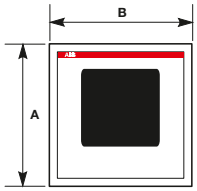
Quick product references

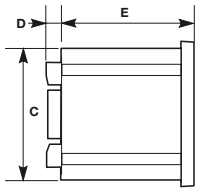
Overall dimensions

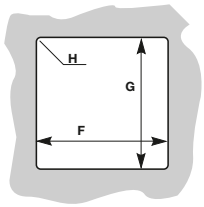
Modular products	 Width		 Depth		 Max. dimensions	
	modules	mm	DIN-rail to door	DIN-rail to front	max depth	max heigth
Energy efficiency						
Modular analogue measurement instruments	3	52.5	44	58	58	85
Modular digital measurement instruments	3	52.2	44	58	58	85
MCV, MCA	See drawings					
QCV, QCA	See drawings					
DMTME	6	105	44	58	58	90
CUS	6	105	44	58	58	90
CUS 485	3	52.5				
TRF M	3	52.5	44	58	58	85.5
TV2	See drawings					
Shunts	See drawings					
E 233	1	17.5	44	58	58	85
HMT	2	35	44	58	58	85
A41	4	70	44	65	65	97
A42						
A43	7	123				
A44						
B21	2	35				
B23	4	70				
B24						
C11	1	17.5				111
C13	3	54				122

Quick product references

Overall dimensions



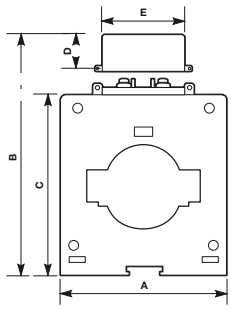


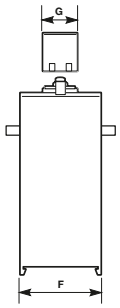


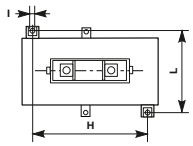
Product without modular profile	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H
Front panel devices								
SL - 48	48	48	44	7	48	45	45	R3
SL - 72	144	72	-	9	55	67	137	R3
Analogue measurement intruments - 48	48	48	43	6	53	45÷0.1	45÷0.1	R3
Analogue measurement intruments - 72	72	72	67	6	53	68÷0.7	68÷0.7	R3
Analogue measurement intruments - 96	96	96	90	6	53	92÷0.8	92÷0.8	R3
Digital measurement instruments	36	72	32	6	51.5	68÷0.8	33÷0.8	R3
M2M	96	96	90	16	61	92	92	R3
ANR 96	96	96	90	14	115	92	92	R3
TMD	96	96	90	14	115	92	92	R3
DMTME - 96	96	96	90	13	90	92	92	R3
DMTME - 72	72	72	-	10	90	68	68	R3

Quick product references

Overall dimensions





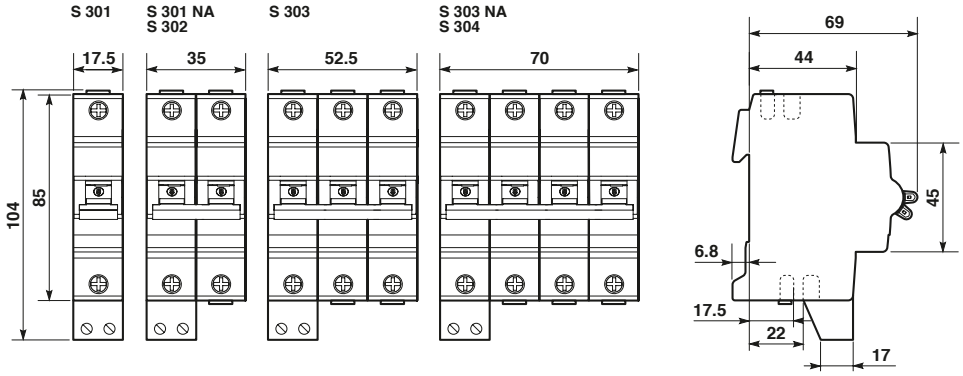


Product without modular profile	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	L [mm]
Measurement current transformers										
CT MAX	see drawings									
CT PRO XT	see drawings									
CTA	see drawings									
CT6	105	121	100	18.5	75	61	21	82	3.7	76.7
CT8	125	142	120	18.5	50	61.5	21	82	3.7	76.7
CT8-V	109	141	119	18.5	50	41	21	-	-	-
CT12 up to 4000 A	180	196	175	18.5	50	68.5	21	156.8	3.7	84
CT12 5000 A, CT12 6000 A	272	290	265	25	50	-	-	-	-	50
CT12-V	109	186	165	18.5	50	41	21	-	-	-
CTO	see drawings									

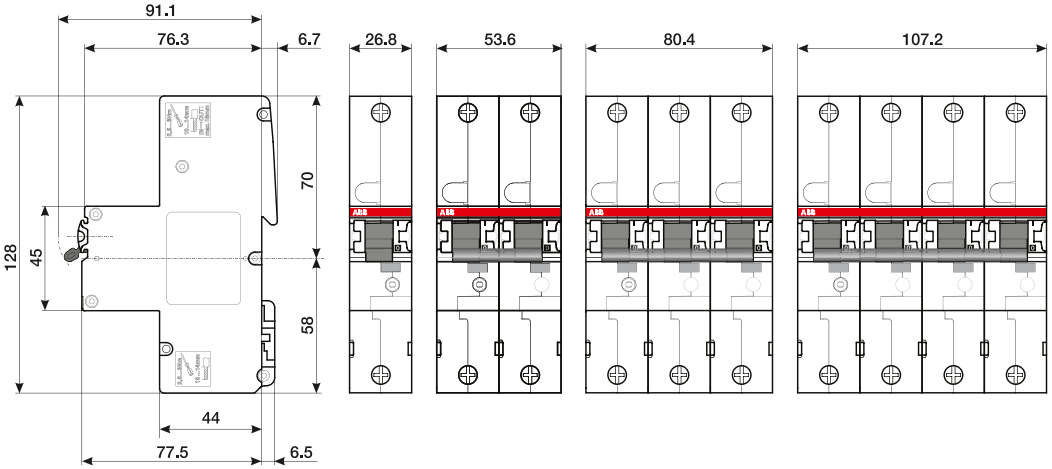
Quick product references

Overall dimensions

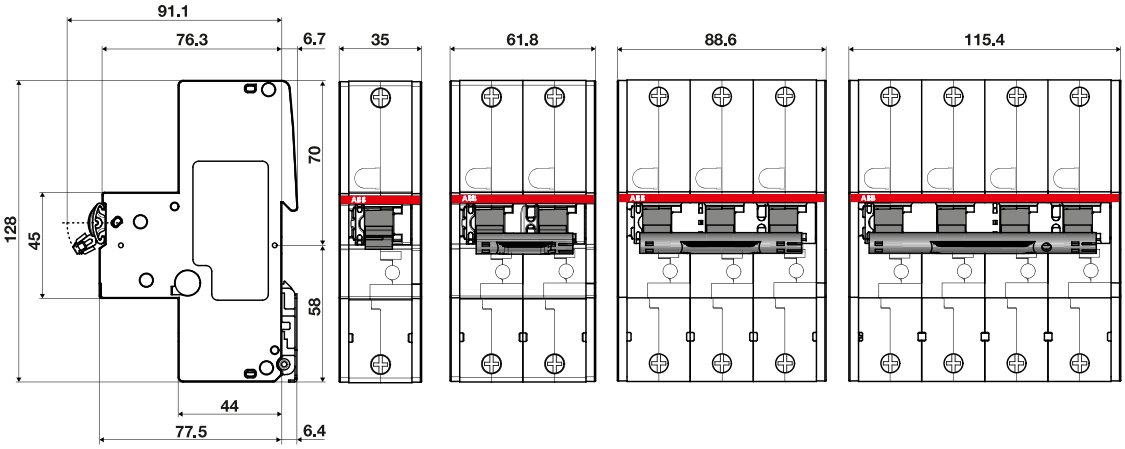
S 200/S 300 with bottom-fitting auxiliary contact



S 750 DR 16...63A



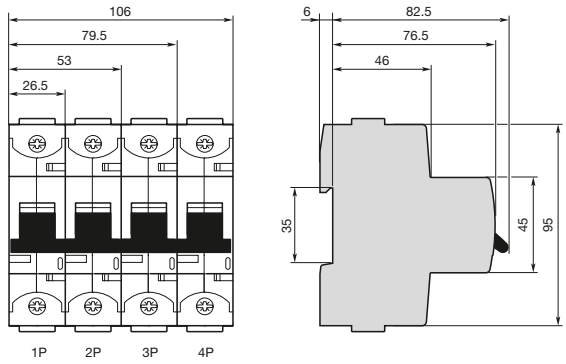
S 750 DR 80...100A



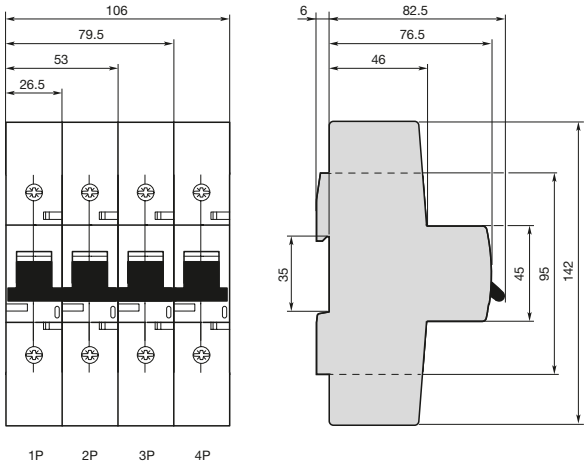
Quick product references

Overall dimensions

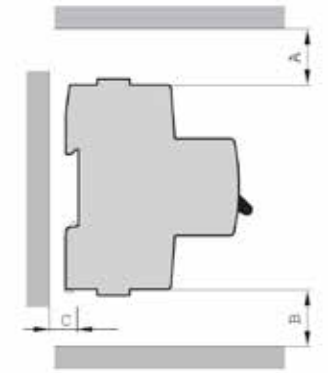
S800S, S800N, S800C, S800B, S800U, S800PV-SP, S800PV-SD



S800 with Ringlug terminals



S800 mounting distances



S800S, S800N, S800C		
up to 254/440 VAC or 500 VDC		
S800S-UC		
up to 1000 VDC		
S800S-SCL-SR		
up to 400/690 VAC		
Dimensions	**isolated parts/surfaces**	**not isolated parts/surfaces**
A	25	100
B	25	25
C	7	50

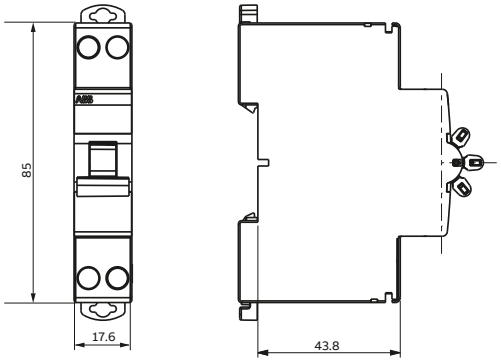
S800S, S800N, S800C, S800HV		
from 254/440 VAC up to 400/690 VAC or 588/1000 VAC (S800HV)		
S800B		
up to 230/400 VAC or 300 VDC		
S800PV-SP		
up to 1500 VDC		
Dimensions	**isolated parts/surfaces**	**not isolated parts/surfaces**
A	25	50
B	25	25
C	7	50

S800HV-SCL-SR		
up to 580/1000 Vac		
Dimensions	**isolated parts/surfaces**	**not isolated parts/surfaces**
A	25	150
B	25	25
C	7	50

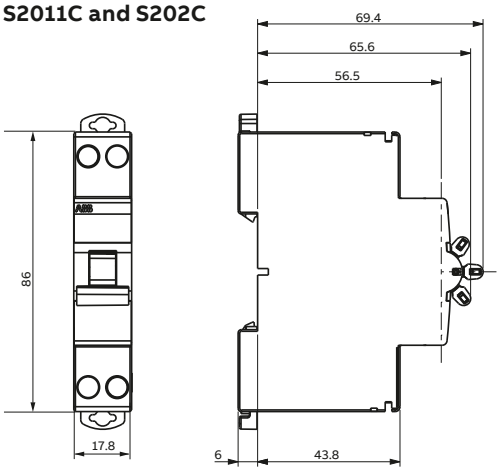
Quick product references

Overall dimensions

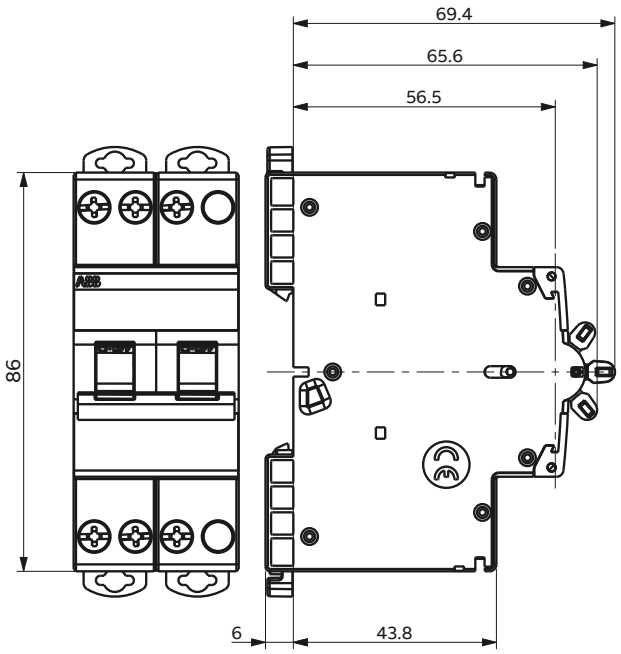
SN201



S2011C and S202C



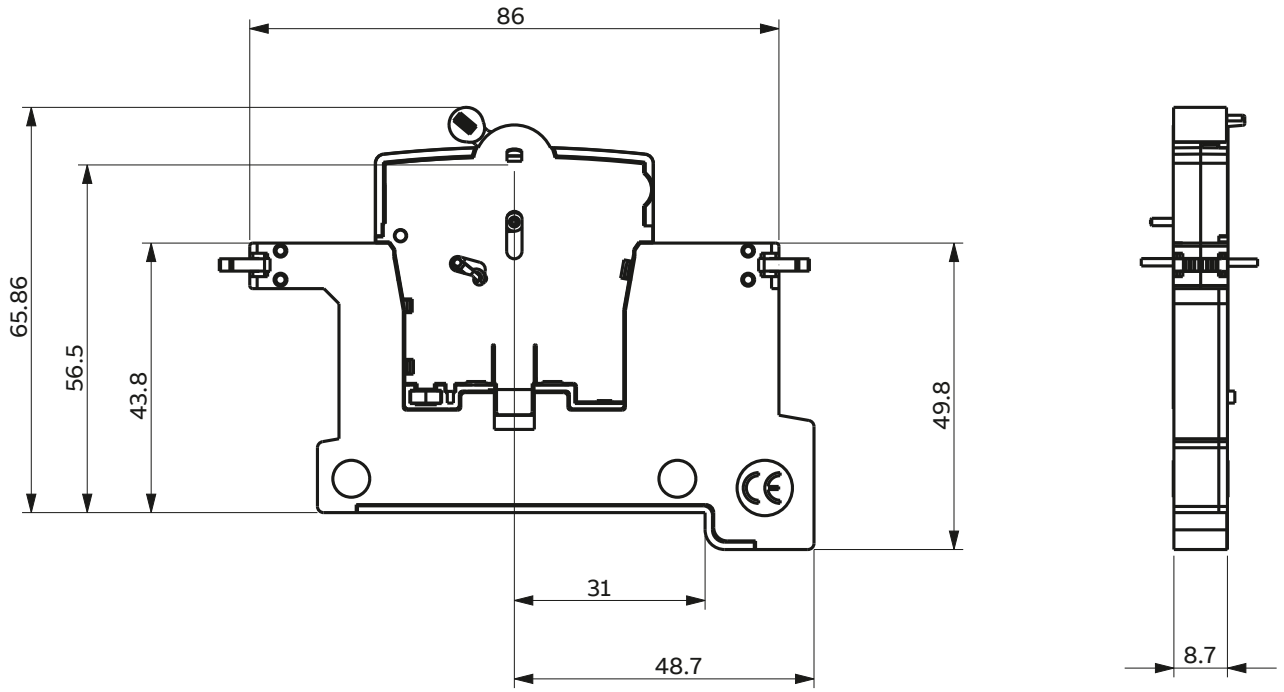
S203C and S204C



Quick product references

Overall dimensions

S200C Compact MCBs - Auxiliary contact

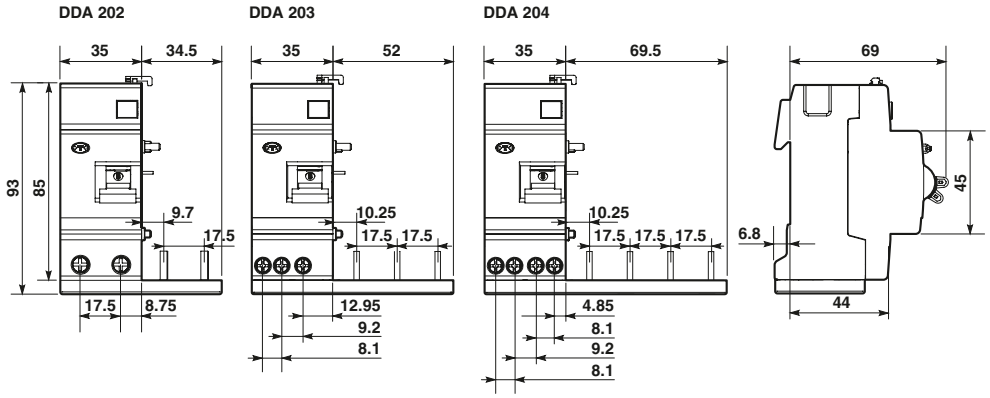


Quick product references

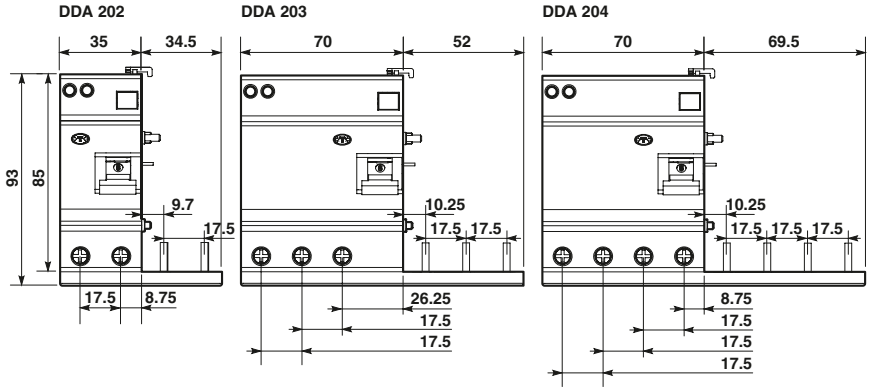
Overall dimensions

DDA 200

In=25-40 A



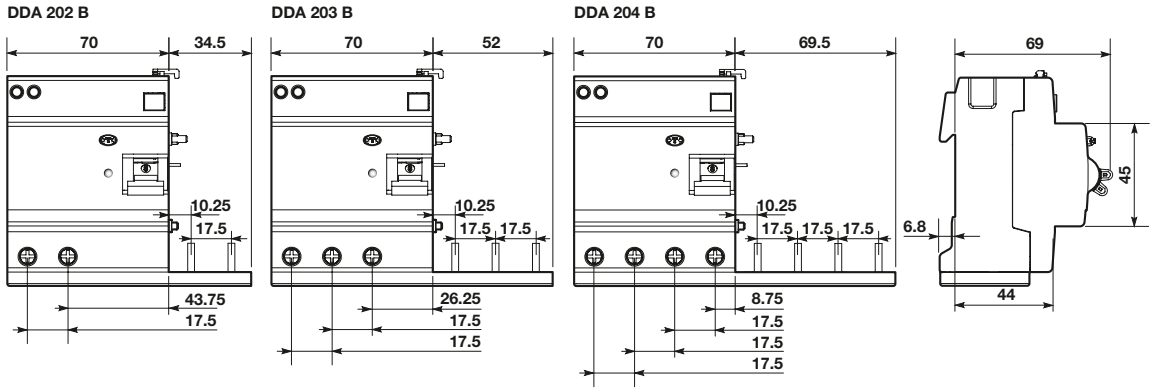
In=63 A



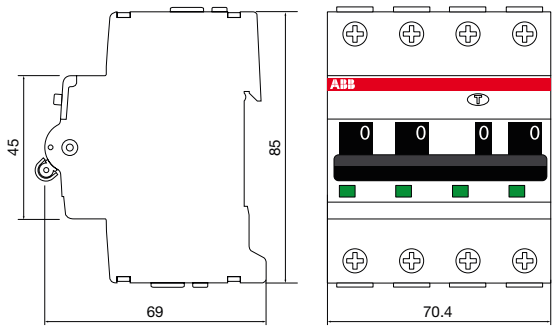
Quick product references

Overall dimensions

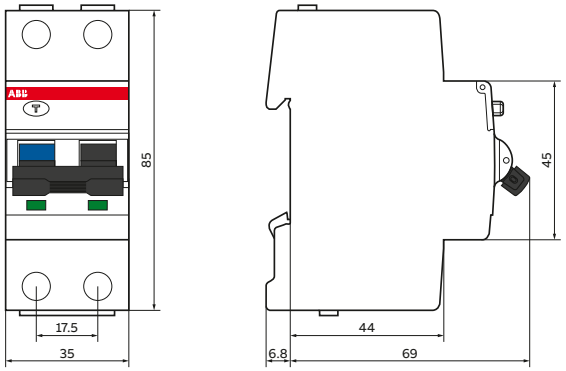
DDA 200 B



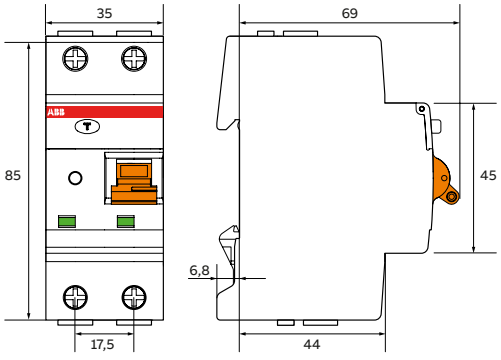
DS203NC



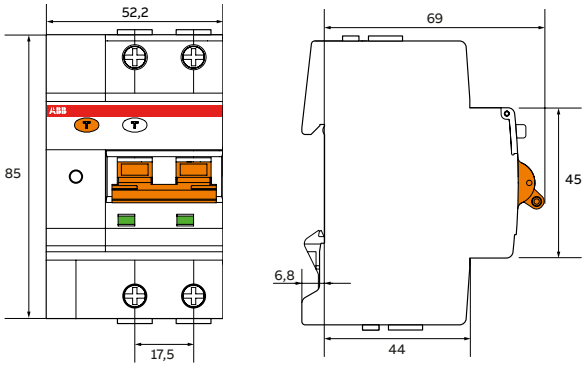
DS201 - DS202C



S-ARC1



S-ARC1

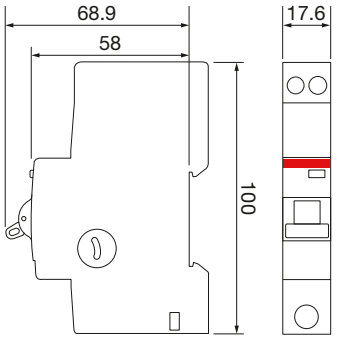


Dimensions in mm

Quick product references

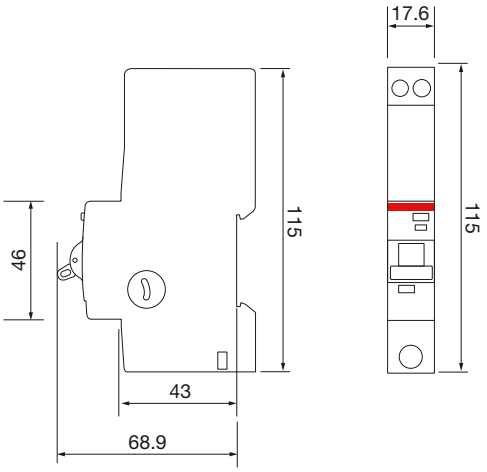
Overall dimensions

DSE201

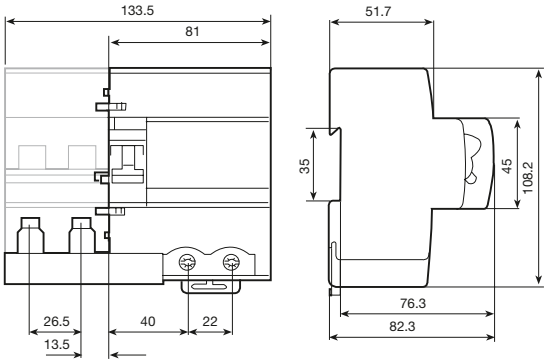


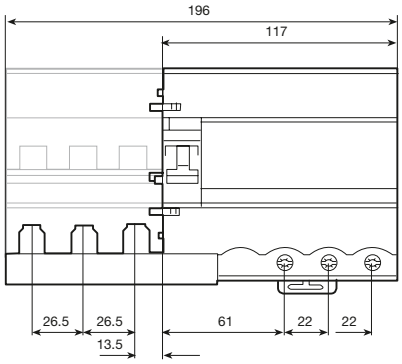
50A version is 115 mm height

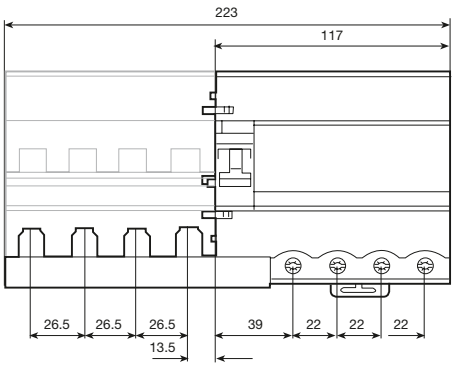
DSE201M



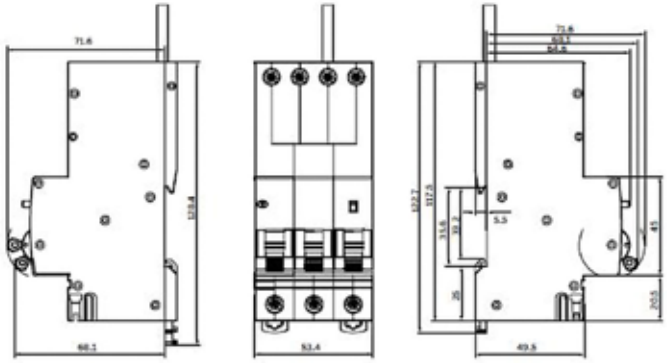
DDA 800 for S800 and DS800 series







DSE203N M



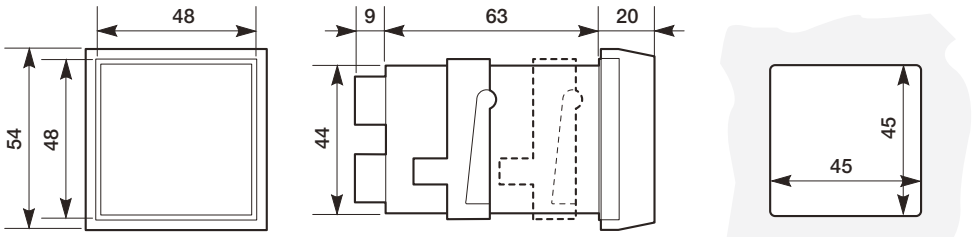
Dimensions in mm

Quick product references

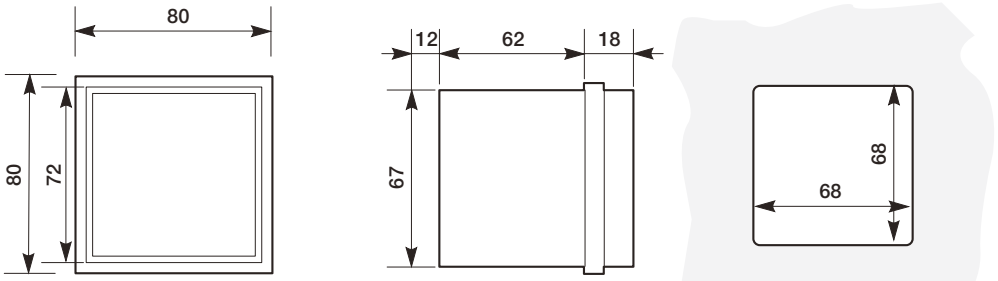
Overall dimensions

ELR front panel residual current relays

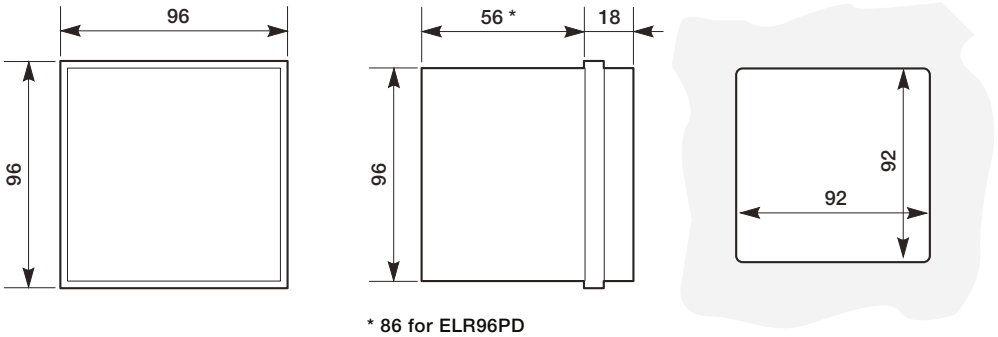
ELR48P



ELR72



ELR96



* 86 for ELR96PD

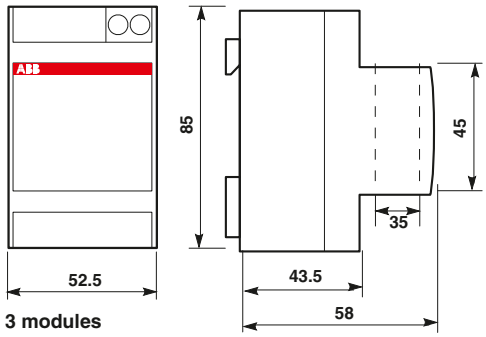
Dimensions in mm

Quick product references

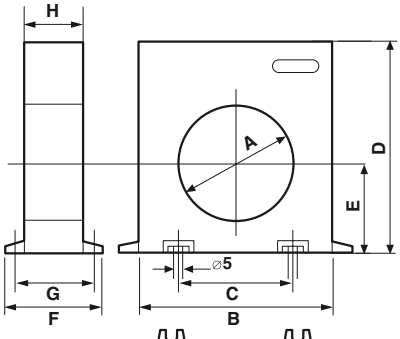
Overall dimensions

Toroidal transformers

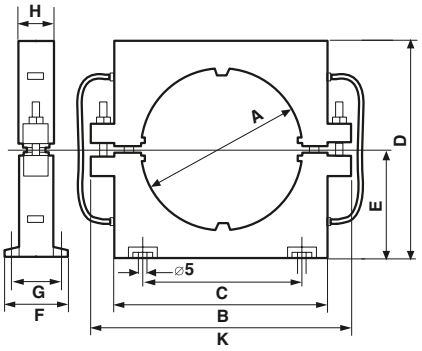
TRM



TR1, TR2, TR3, TR4, TR160, TR160A

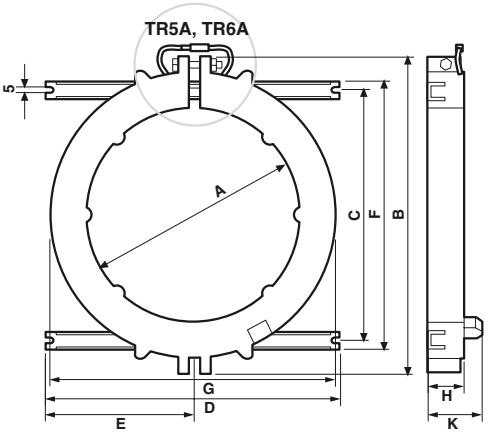


TR4A



TR5, TR5A, TR6, TR6A

TR5A, TR6A

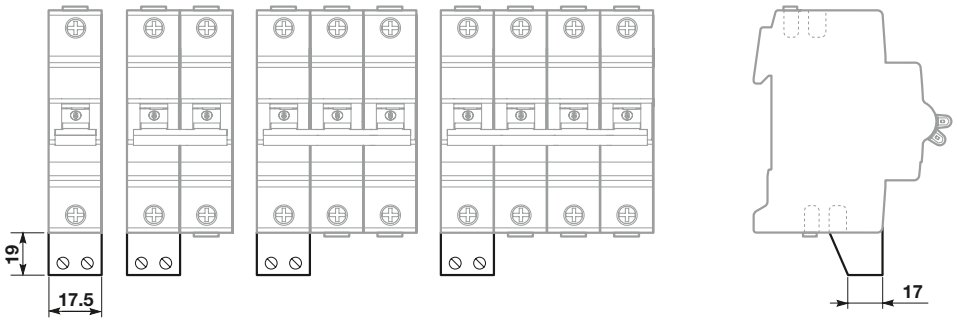


Type	Dimensions (mm)								
	A	B	C	D	E	F	G	H	K
TR1	35	100	60	110	47	50	43	30	–
TR2	60	100	60	110	47	50	43	30	–
TR3	80	150	110	160	70	50	43	30	–
TR4	110	150	110	160	70	50	43	30	–
TR4A	110	145	110	150	75	45	38	25	180
TR160	160	220	156	236	110	64	50	34	–
TR160A	160	220	156	236	110	64	50	34	–
TR5	210	310	240	290	145	260	280	36	55
TR5A	210	310	240	290	145	260	280	36	55
TR6	300	416	350	386	193	366	365	42	60
TR6A	300	416	350	386	193	366	365	42	60

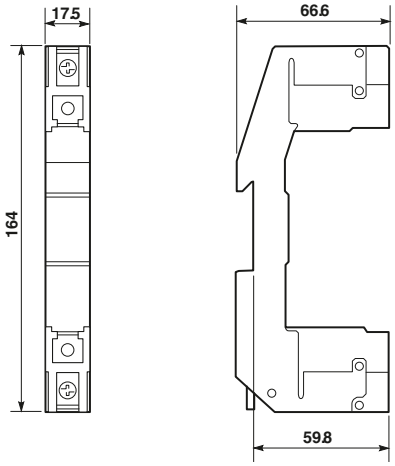
Quick product references

Overall dimensions

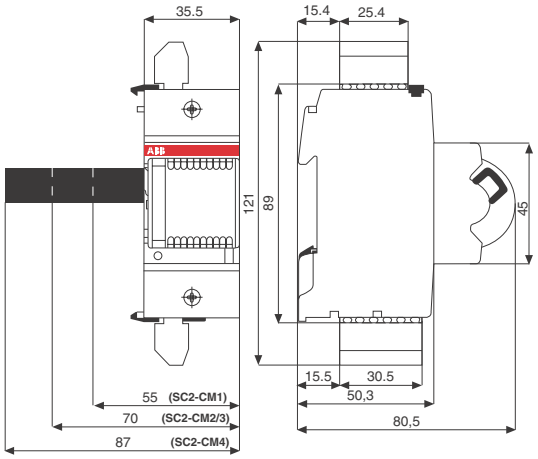
Bottom-fitting auxiliary contact (with S 200 MCB)



S 2C-EST



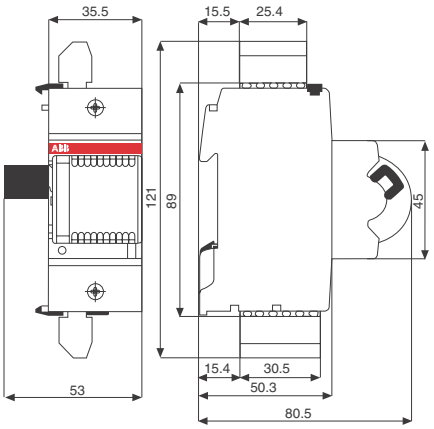
S 2C-CM



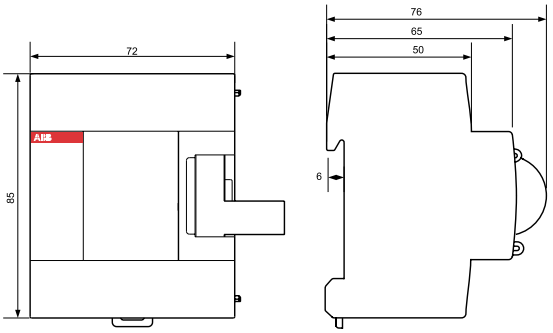
Quick product references

Overall dimensions

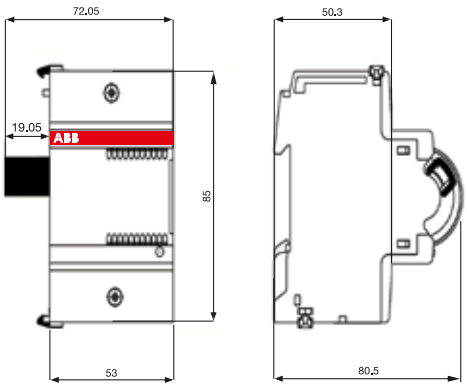
F2C-ARI, F2C-CM



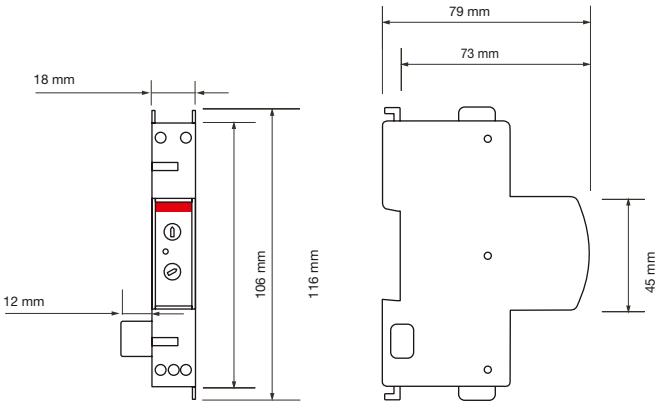
F2 CM4



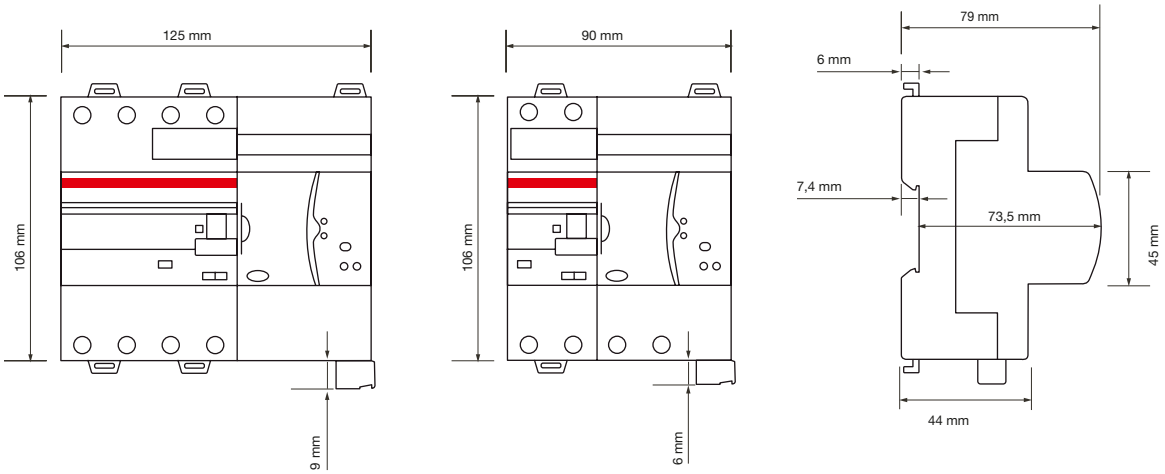
F2C-ARH, F2C-ARH-T



ARBus



F-ARI Test

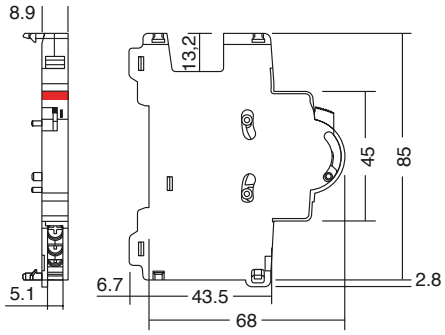


Quick product references

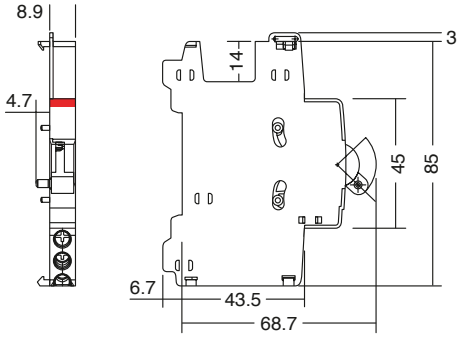
Overall dimensions

Auxiliary elements for SN 201 series

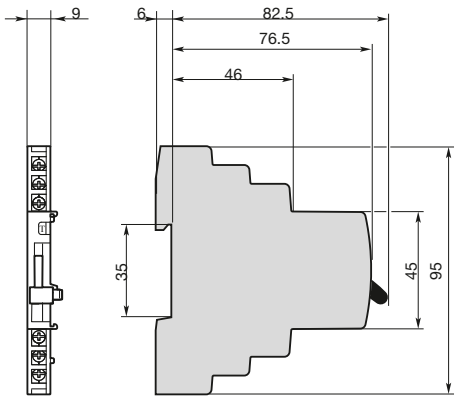
SN201-S



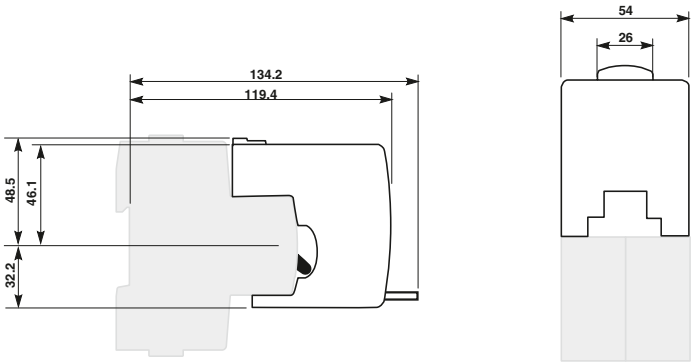
SN201-IH



S800-AUX, S800-AUX/ALT



S800-RSU-H

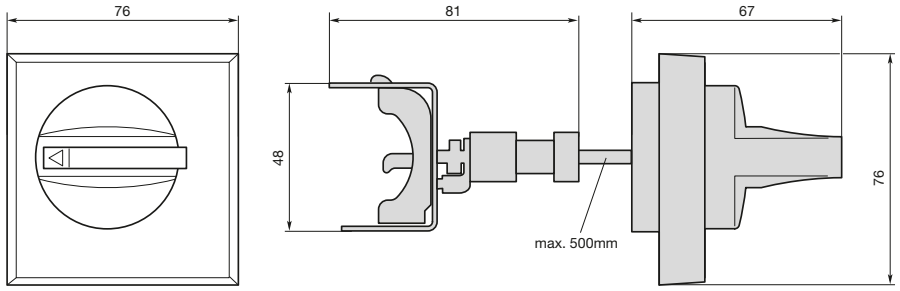


Quick product references

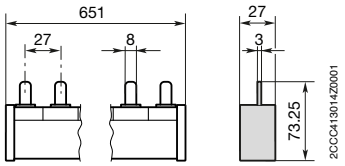
Overall dimensions

S800-RD+S800-RHE, S800-NT, S800-BB250, S800-BBPC120

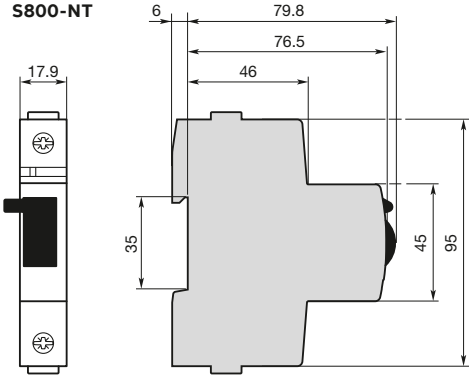
S800-RD+S800-RHE



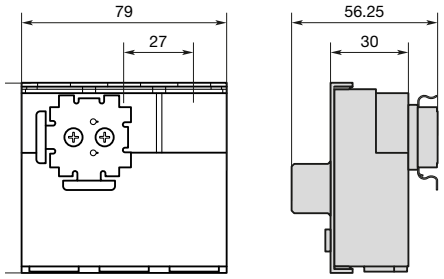
S800-BB250



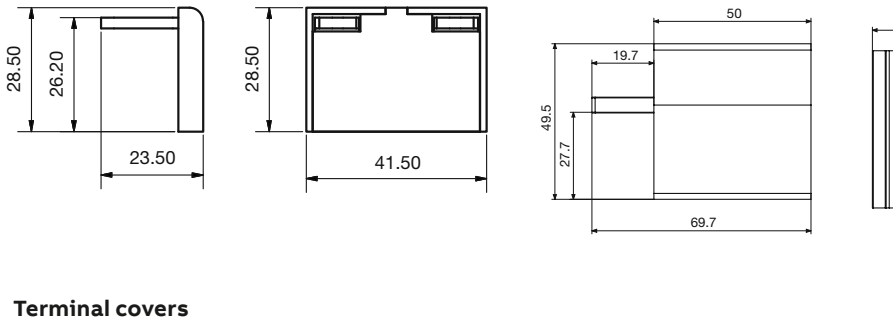
S800-NT



S800-BBPC120

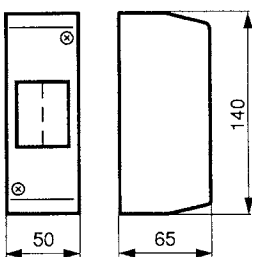


S802-LINK50
S802-LINK125

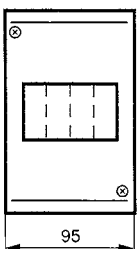


Terminal covers

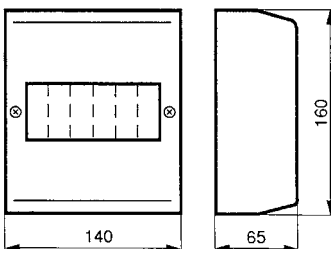
PCD 2 N



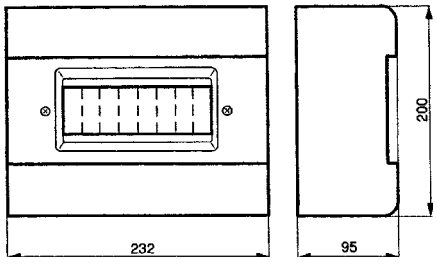
PCD 4 N



PCD 6 N



PCD 8 N



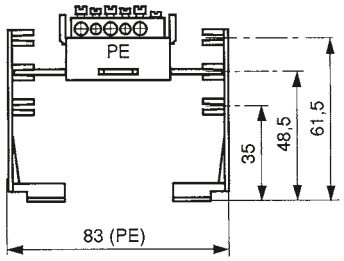
Quick product references

Overall dimensions

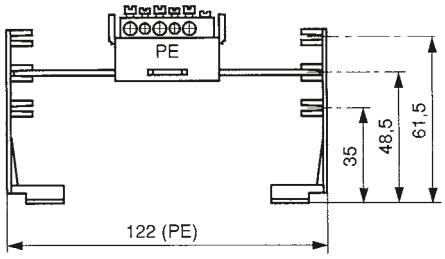
Enclosures of moulded-plastic

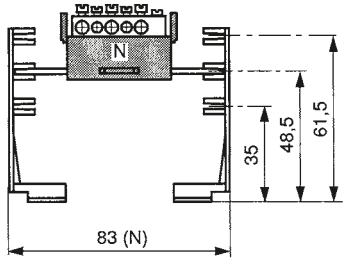
N + PE common terminals for QES

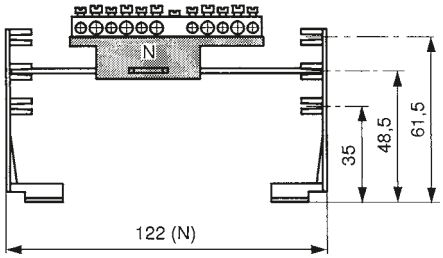
SMO 4



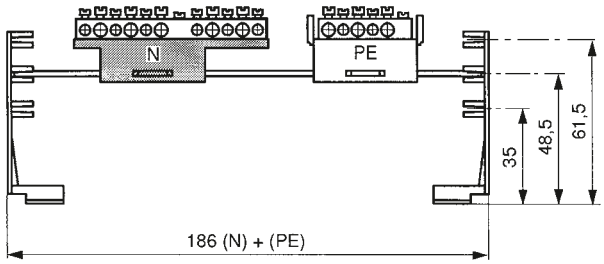
SMO 6



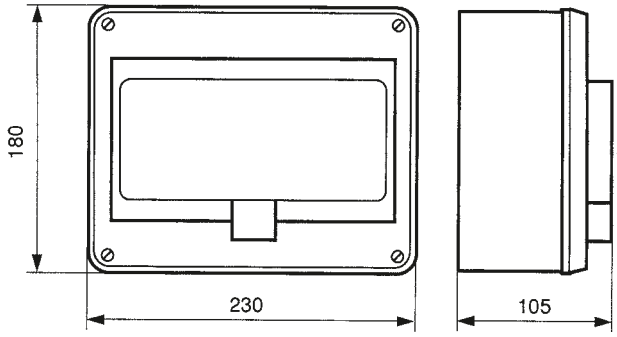




SMO 10



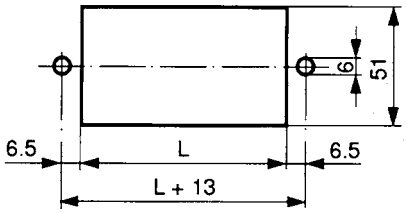
QES 10/3 N



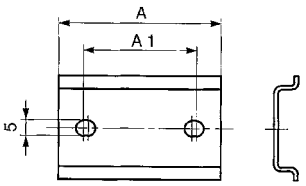
Quick product references

Overall dimensions

Drill holes



① **In the case of DSW 1, the drill holes are vertical**



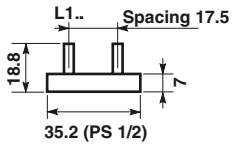
Name	A	A1
DSW	17.5	15
DSW 2	35	20
DSW 3	52.5	37.5
DSW 4	70	55
DSW 6	105	90

Quick product references

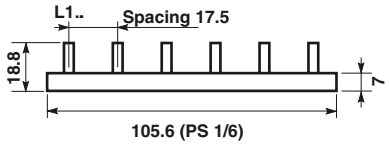
Overall dimensions

Busbars

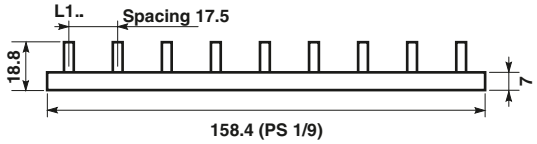
PS 1/2



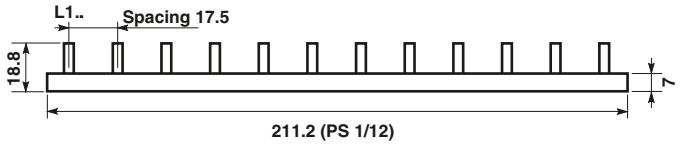
PS 1/6



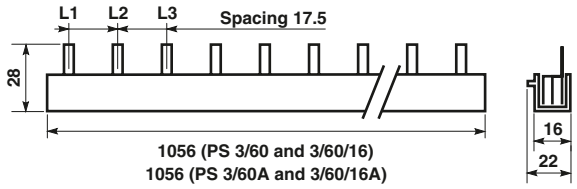
PS 1/9



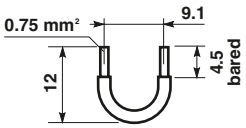
PS 1/12



PS 3/60



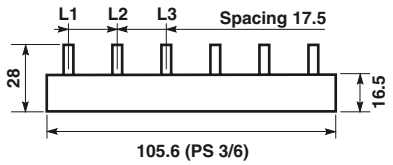
Auxiliary contact bridge HKB



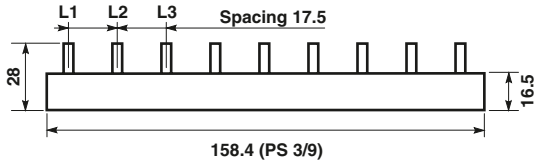
Quick product references

Overall dimensions

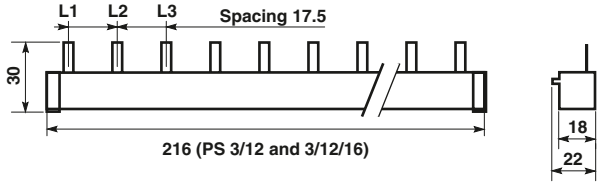
PS 3/6



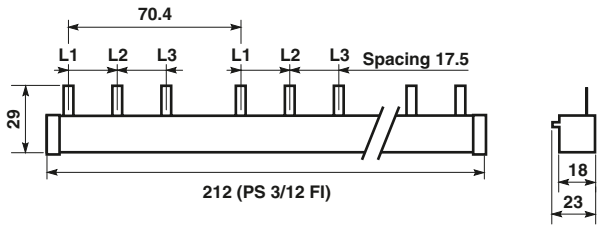
PS 3/9



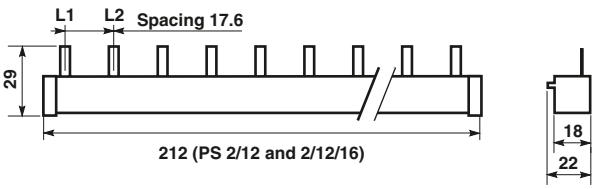
PS 3/12 (2CDL 230 001 R1012)



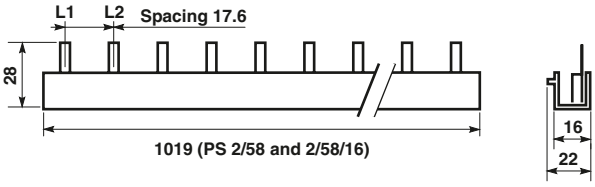
PS 3/12 FI (2CDL 230 002 R1012)



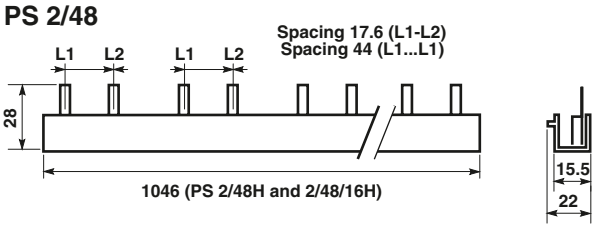
PS 2/12



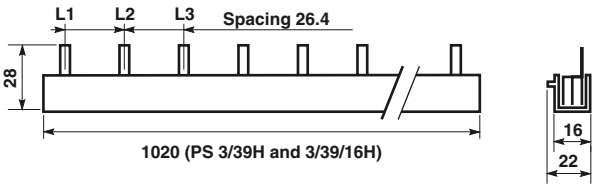
PS 2/58



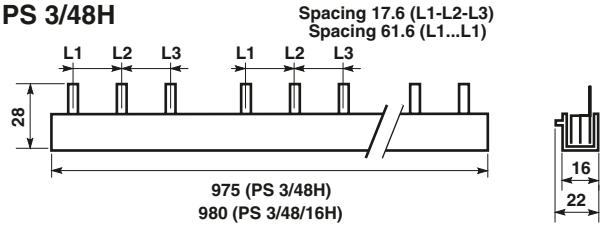
PS 2/48



PS 3/39H



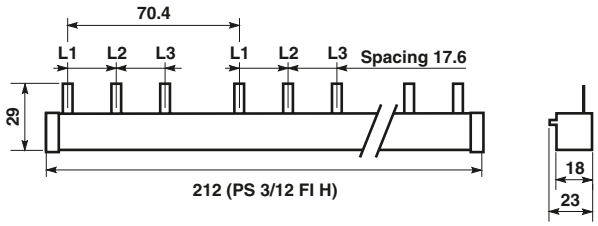
PS 3/48H



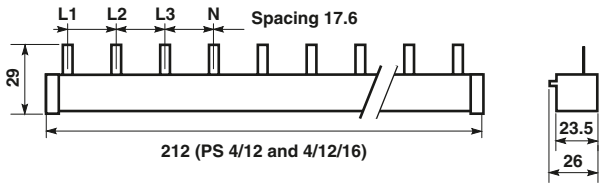
Quick product references

Overall dimensions

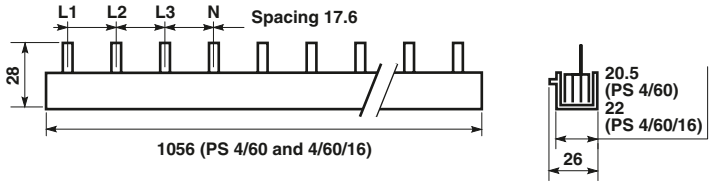
PS 3/12 FI H



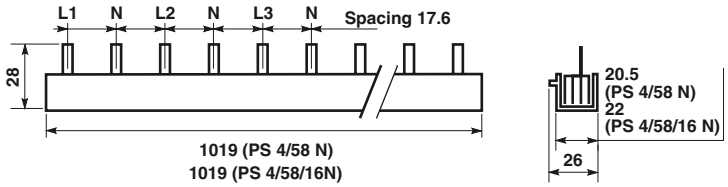
PS 4/12



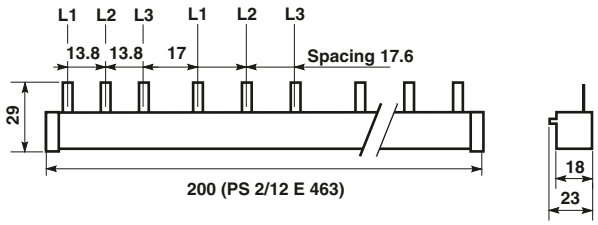
PS 4/60



PS 4/58N



PS 3/12 E 463

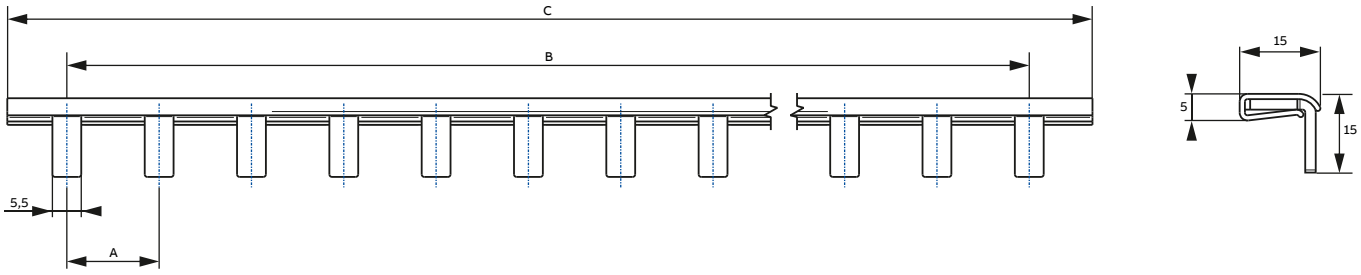


Quick product references

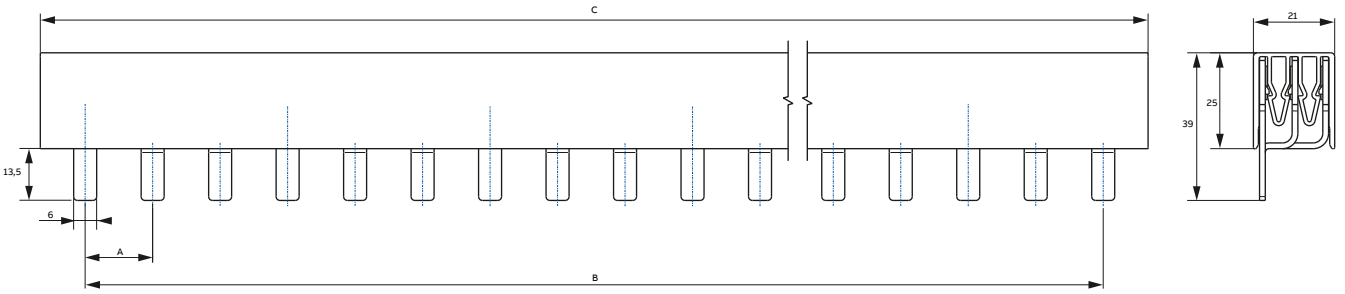
Overall dimensions

Busbars PS...CB and accessories acc. to UL 508

1-phase busbars



2-/3-phase busbars



Overall dimensions

Busbar	A mm	B mm	C mm
1-phase busbars			
PS 1/57/18 CB	17.6	986	1010
PS 1/57/25 CB	17.6	986	1010
PS 1/37/18 H CB	26.4	950	985
PS 1/37/25 H CB	26.4	950	985
2-phase busbars			
PS 2/56/18 CB	17.6	968	990
PS 2/56/25 CB	17.6	968	990
PS 2/46/18 H CB	17.6 / 26.4 *	968	1010
PS 2/46/25 H CB	17.6 / 26.4 *	968	990
3-phase busbars			
PS 3/57/18 CB	17.6	986	1010
PS 3/57/25 CB	17.6	986	1010
PS 3/48/18 H CB	17.6 / 26.4 *	924	982
PS 3/48/25 H CB	17.6 / 26.4 *	924	982
PS 3/39/18 H CB	26.4	1003	1040
PS 3/39/25 H CB	26.4	1003	1040

* pin gap for auxiliary

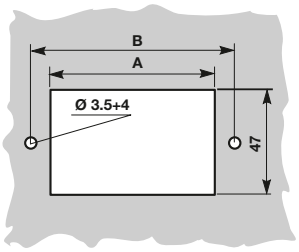
Quick product references

Overall dimensions

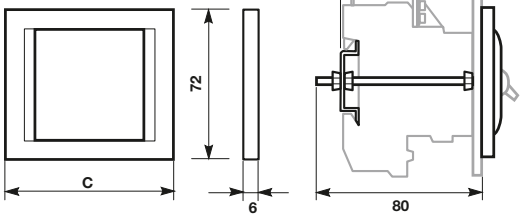
ME flange for rear board mounting

DEPHT D
57 mm for S 240-S 250-
S 270-S 280 circuit-breakers

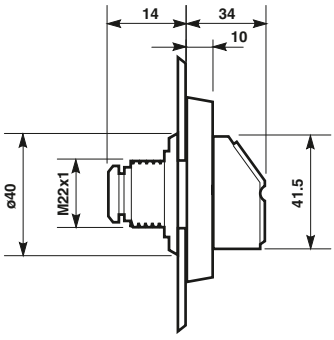
72 mm for S 210 circuit-breakers

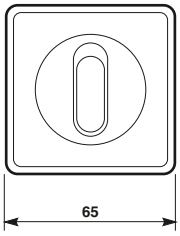


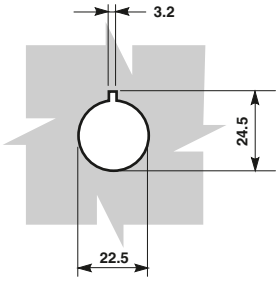
TYPE	A	B	C
ME 1 - 1 module	18	40	50
ME 2 - 2 modules	36	57.5	67
ME 3 - 3 modules	54	75.5	85
ME 4 - 4 modules	72	93	103
ME 6 - 6 modules	108	129	139
ME 8 - 8 modules	144	164	172



OH_2A_





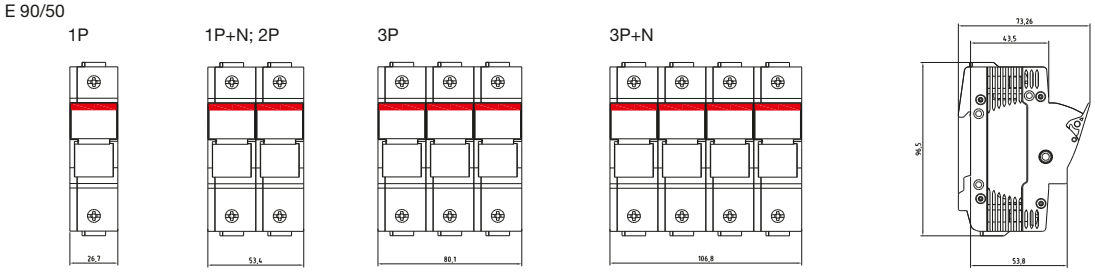


Quick product references

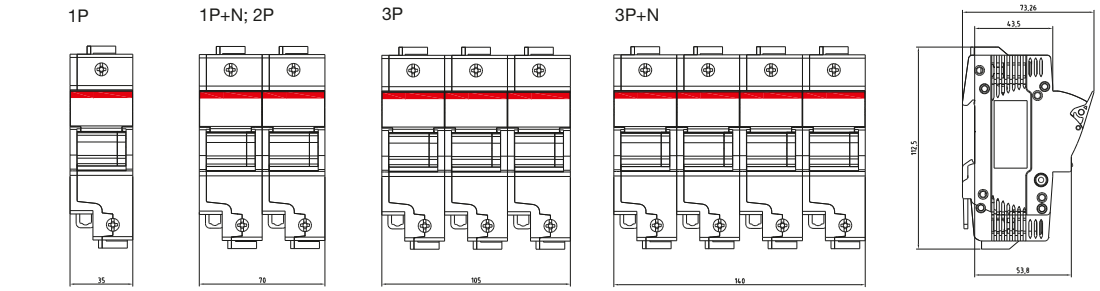
Overall dimensions

E90 50/125

E 90/50

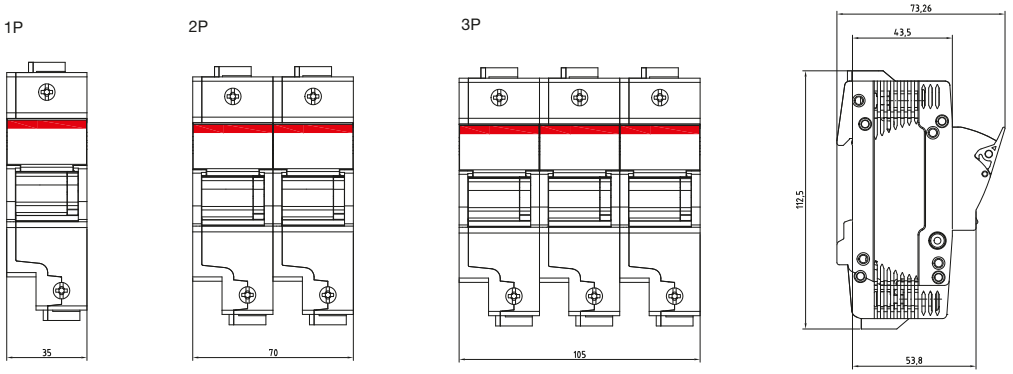


E 90/125

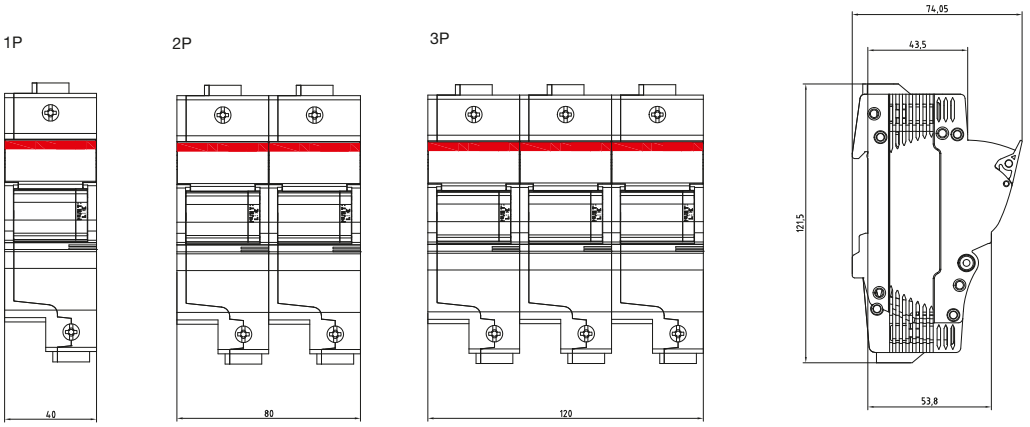


E90 30/60 J class

E 90/30 classJ



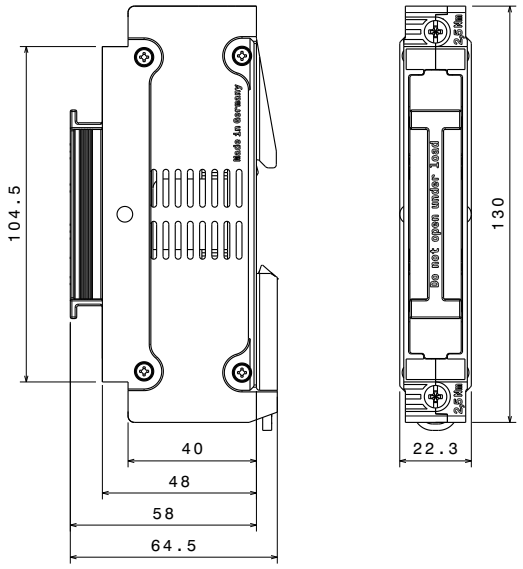
E 90/60 classJ



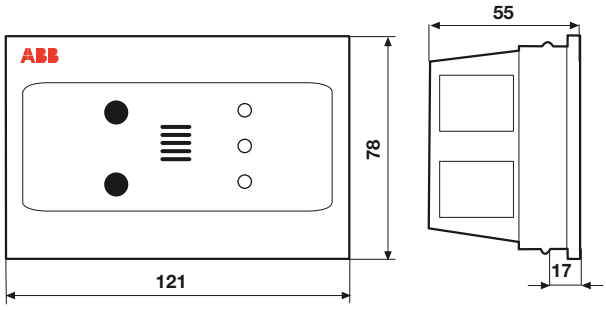
Quick product references

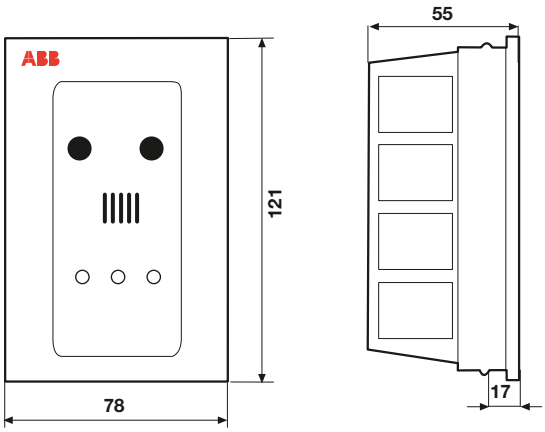
Overall dimensions

E90/32 PV 1500



QSD remote signaling panels



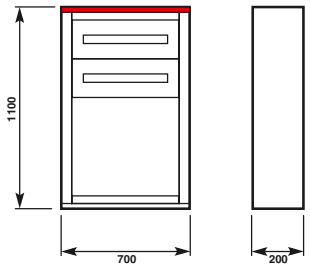


Quick product references

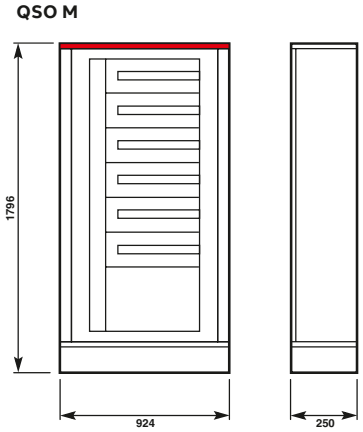
Overall dimensions

QSO electrical switchboard for medical locations

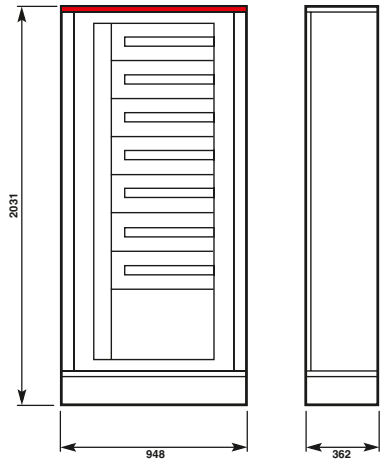
QSO S



QSO M



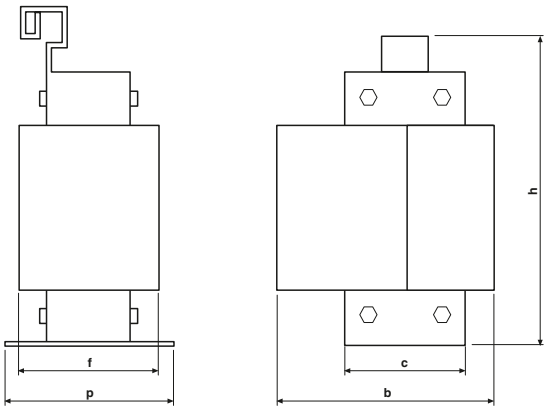
QSO L



Quick product references

Overall dimensions

TI insulating transformers

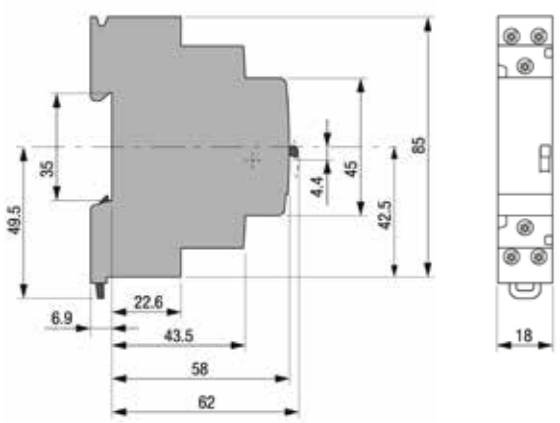


	Rated output [KVA]			
Dimensions	**3**	**5**	**7,5**	**10**
b [mm]	205	240	240	280
c [mm]	170	170	170	176
f [mm]	115	115	115	173
h [mm]	340	380	380	380
p [mm]	150	150	160	260
Weight [kg]	29,5	44	50,5	73

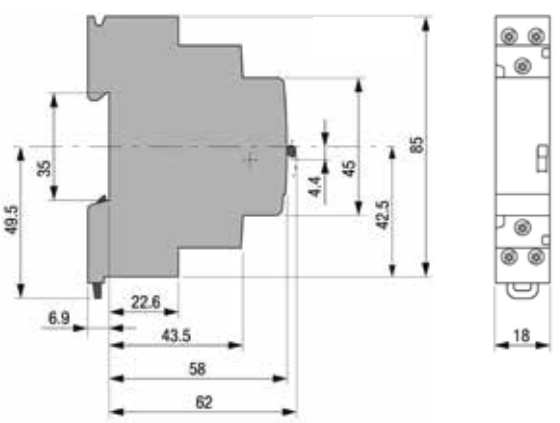
Quick product references

Overall dimensions

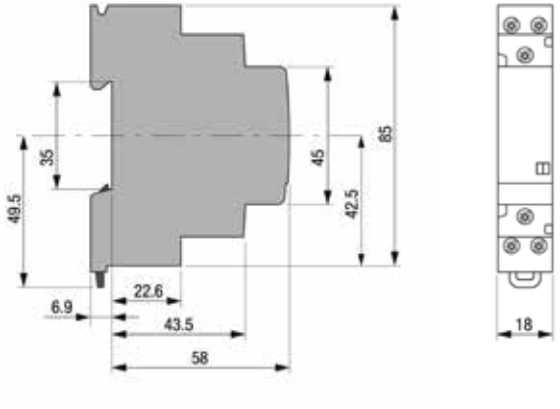
E290 Latching Relays



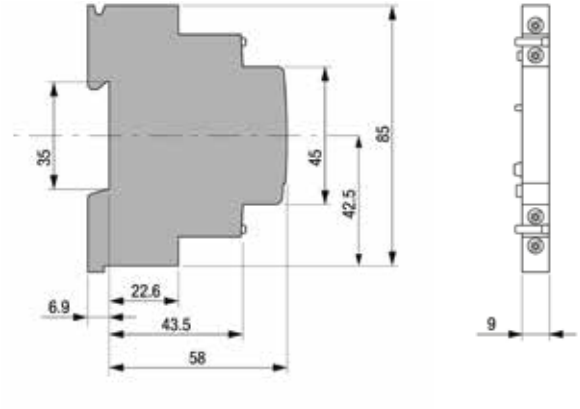
E297 Installation Relays



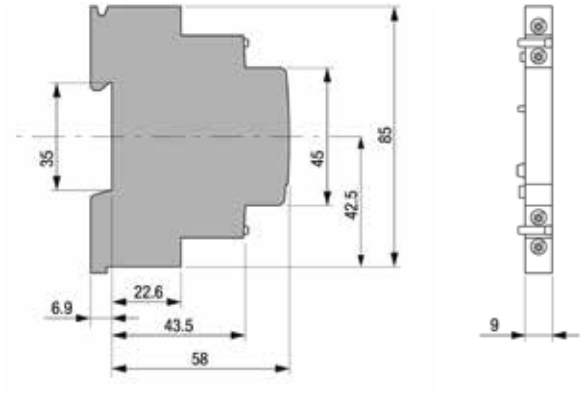
E291S Sequential Latching Relay



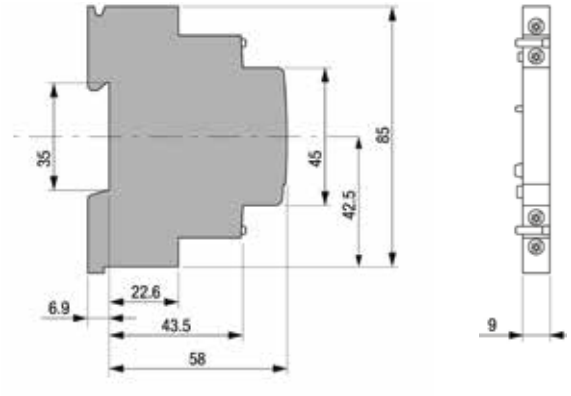
E298 Main Contact Module



E292 Main Contact Module



E299-11 Auxiliary Contact

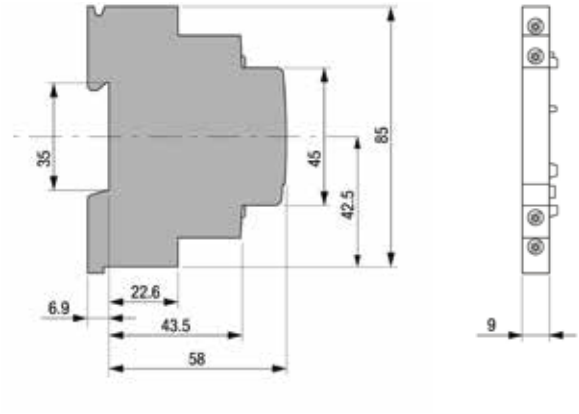


Quick product references

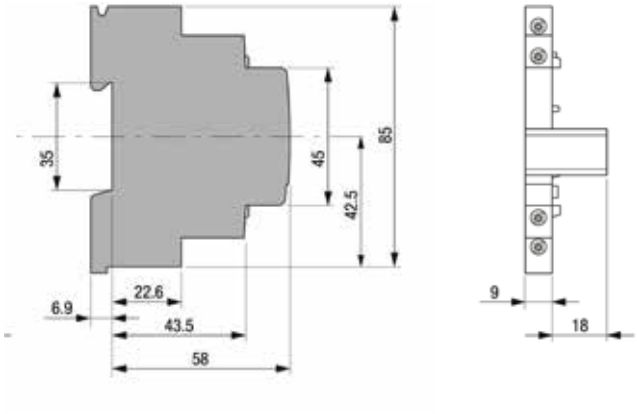
Overall dimensions

E293/X Central On-Off Control Module

(for same control voltage potential)

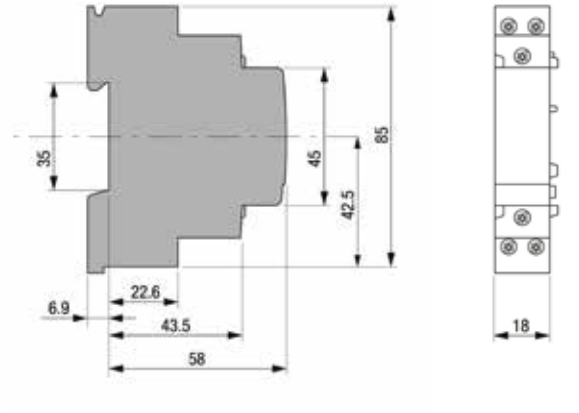


E295-PS Permanent Signal Module

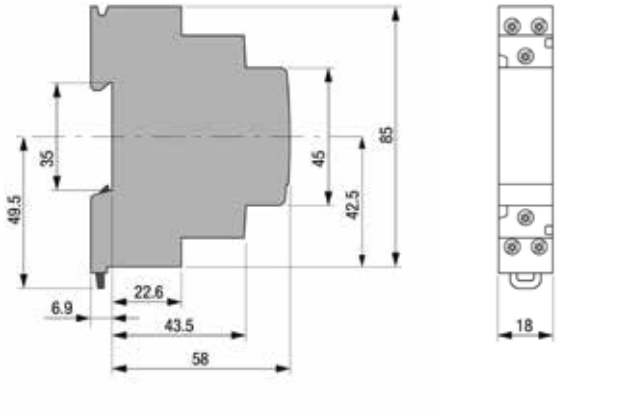


E294 Central On-Off Control Module

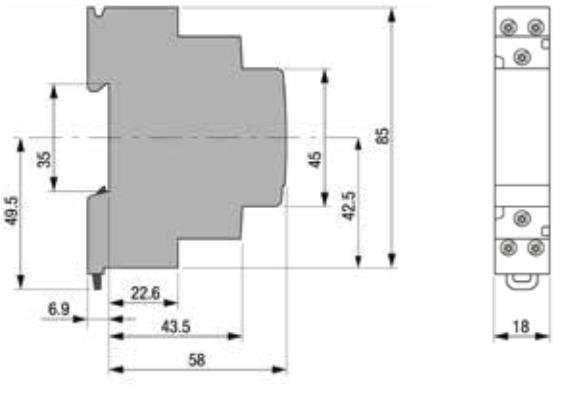
(for different control voltage potential)



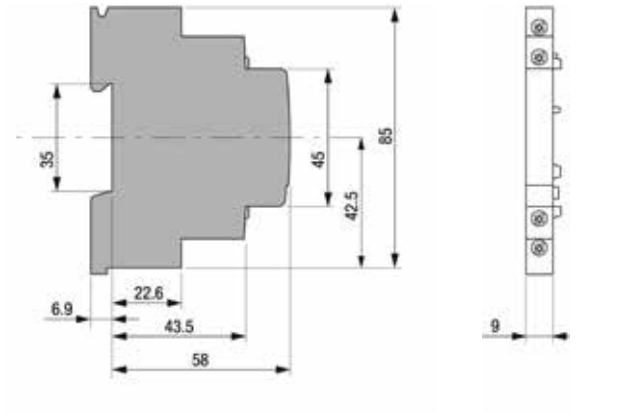
E296-CP Compensator



E295-GM Group Module



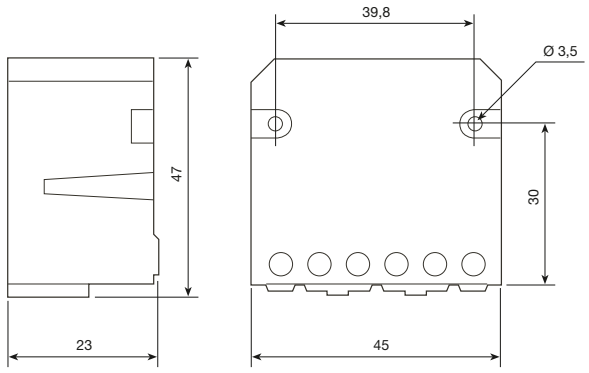
E299-11 Auxiliary Contact



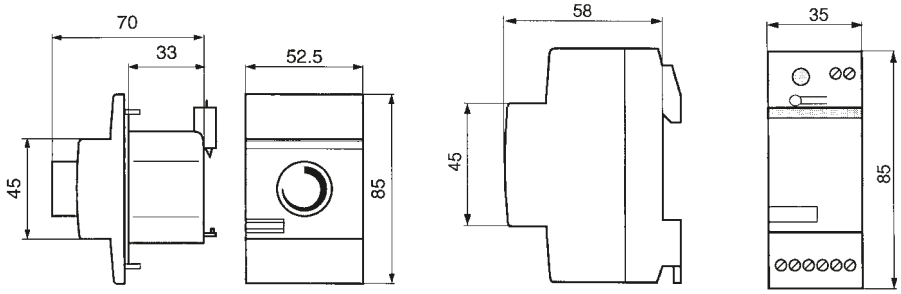
Quick product references

Overall dimensions

FLR pulse relays



STD dimmers



STD 50
STD-EP

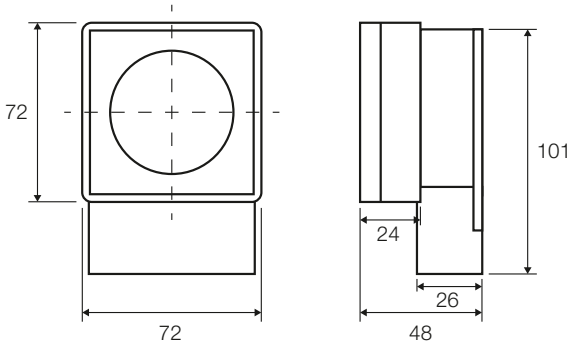
3 modules

STD-500 MA
STD-MTS

2 modules

AT72e electro-mechanical time switches

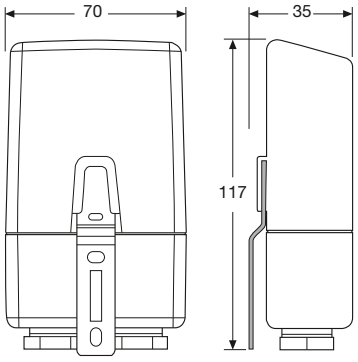
AT72e, AT72e-R, AT72e-7R



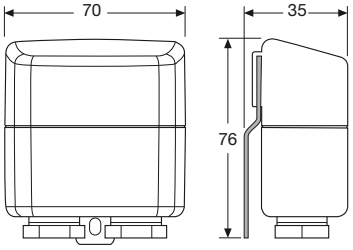
Quick product references

Overall dimensions

T1 POLE



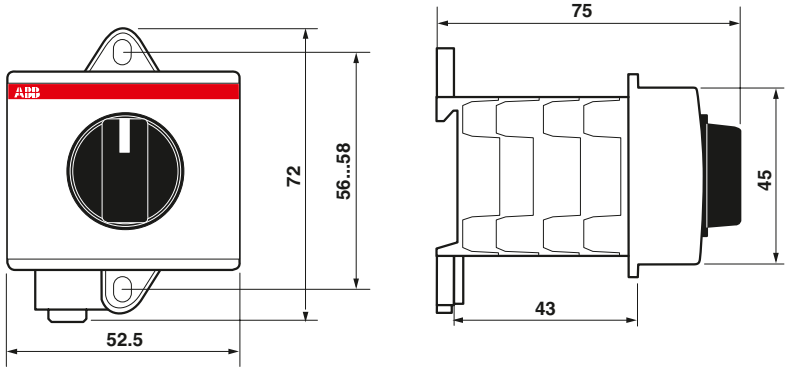
LS-D



Quick product references

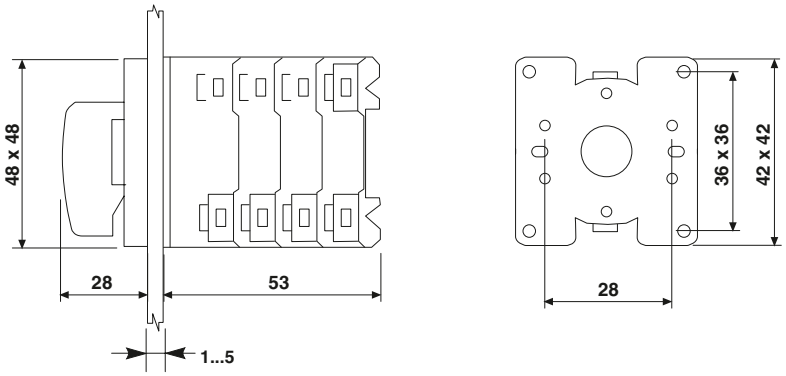
Overall dimensions

MCV - MCA voltmetric and ammetric switches



3 modules

QCV - QCA front panel voltmetric and ammetric switches

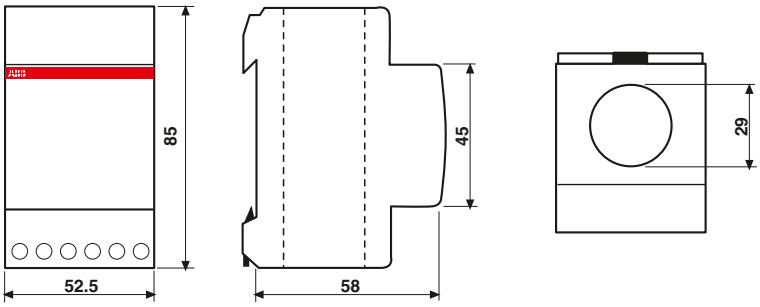


Quick product references

Overall dimensions

Modular current transformers with through primary

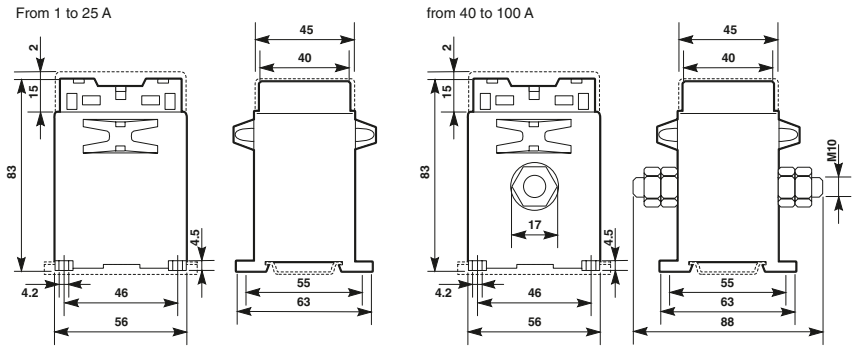
TRF M



3 modules

Standard type current transformers.../5 A with wound primary

CTA

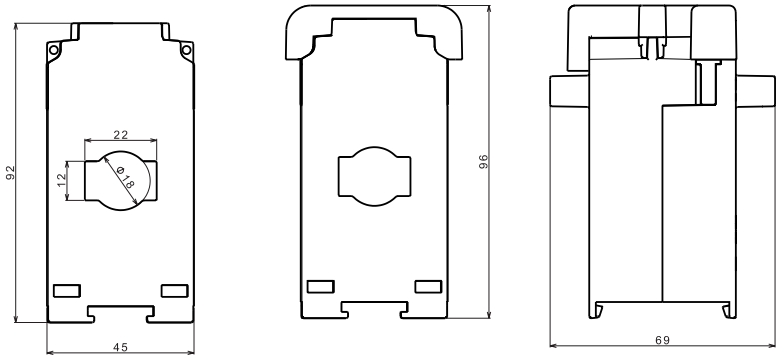


Quick product references

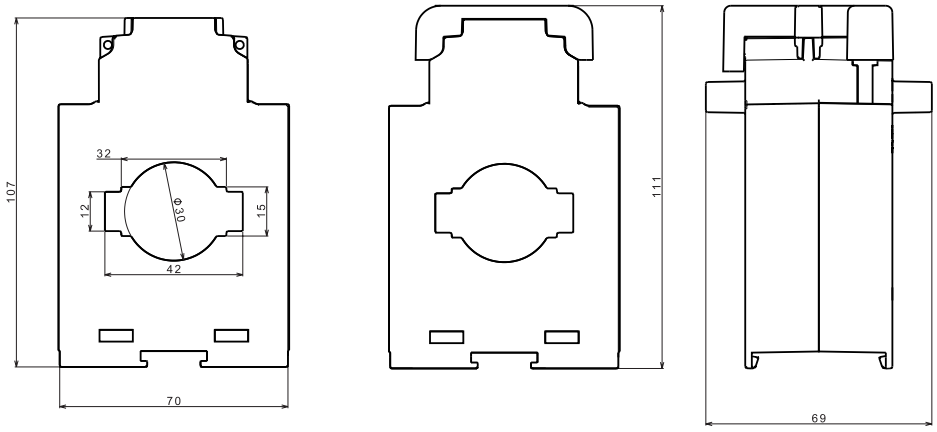
Overall dimensions

Standard type current transformers...5 A with through primary

CT PRO XT



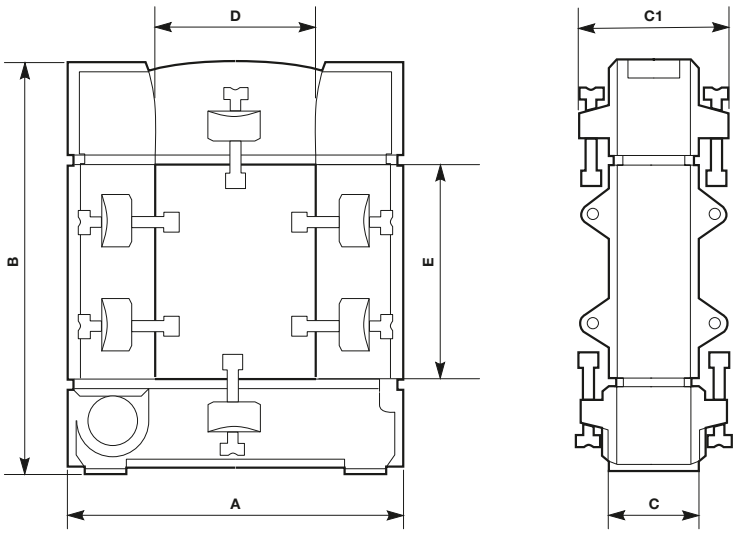
CT MAX



Quick product references

Overall dimensions

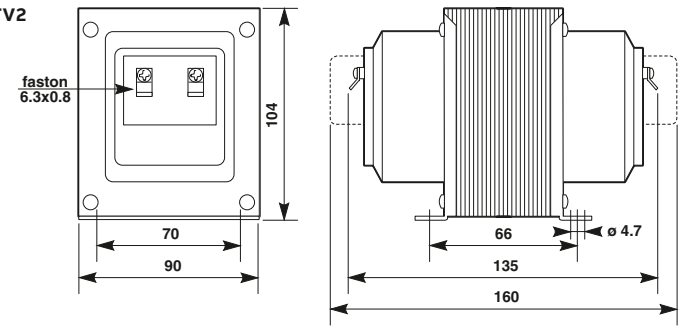
CTO



Tipo	A	B	C	C1	D	E
CT30...	93	106	34	58	20	30
CT80...	125	152	34	58	50	80
CT120...	155	198	34	58	80	120

Voltage transformers

TV2

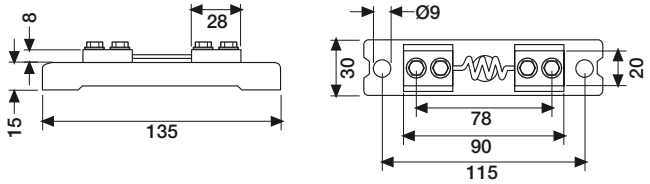


Quick product references

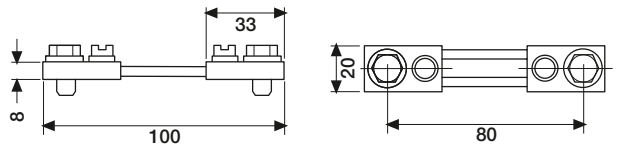
Overall dimensions

Shunts

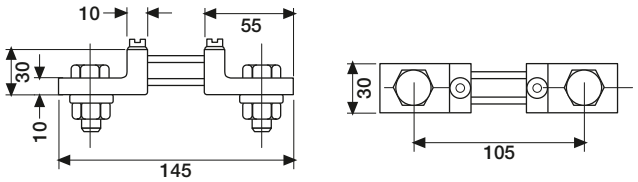
SNT1 ÷ 25 A/60 mV



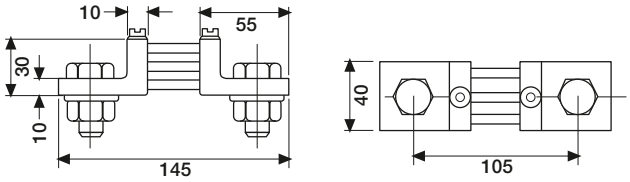
SNT30 ÷ 150 A/60 mV



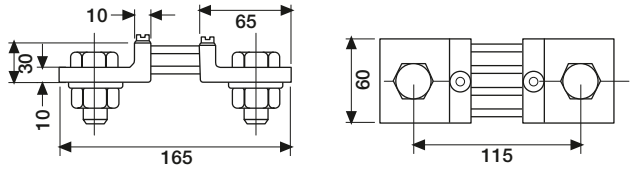
SNT200 ÷ 250 A/60 mV



SNT400 ÷ 600 A/60 mV



SNT800 ÷ 1000 A/60 mV

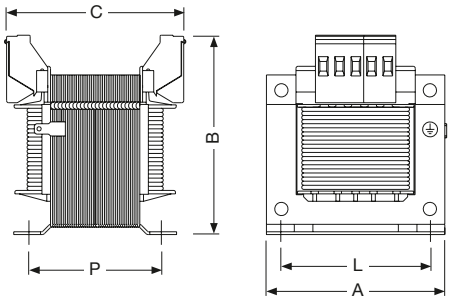


Quick product references

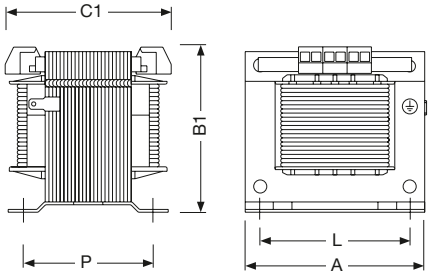
Overall dimensions

TM-C. TM-S, TM-I

from 50 up to 400 VA



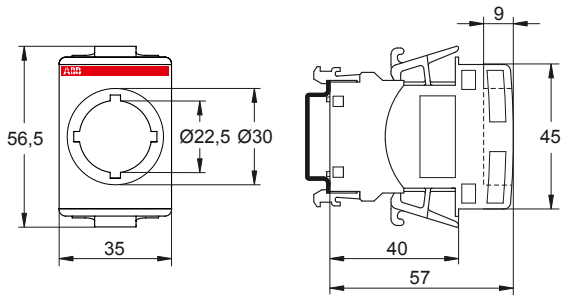
from 630 up to 2500 VA



TM-C, TM-S and TM-I Control, Safety and Insolating transformers

Power (VA)	Picture	Dimensions							Screw	Wheigth (Kg)
		A	B	B1	C	C1	P	L		
50	1	80	90	-	74	-	46	56	M4	1.1
100	1	86	96	-	87	-	63	64	M4	2
160	1	100	110	-	90	-	73	84	M5	3
200	1	100	110	-	90	-	73	84	M5	3.2
250	1	100	110	-	110	-	89	84	M5	3.6
320	1	123	122	-	102	-	73	90	M5	4.4
400	1	123	122	-	112	-	85	90	M5	5.5
630	2	154	-	150	-	126	90	122	M6	7.8
1000	2	155	-	150	-	168	133	122	M6	13.2
1600	2	200	-	195	-	200	125	155	M8	21.2
2000	2	200	-	195	-	230	143	155	M8	25.5
2500	2	200	-	195	-	230	153	155	M8	26.8

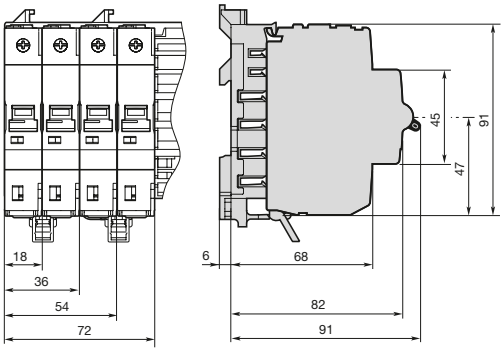
MA1-8001 DIN rail adapter



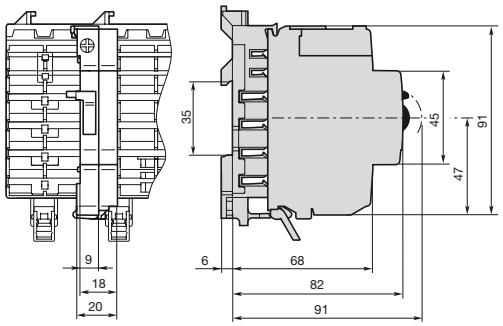
Quick product references

Overall dimensions

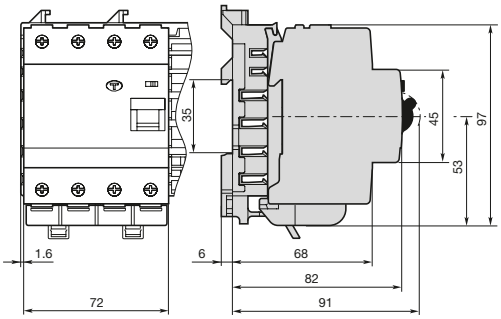
1-, 2-, 3- and 4-pole miniature circuit breakers S400



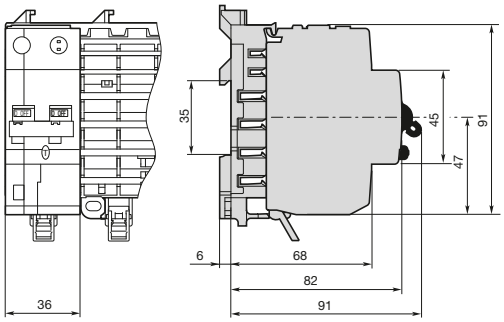
Neutral disconnector



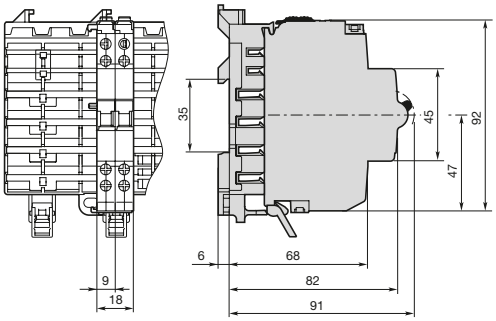
4-pole residual current operated circuit breaker, switch disconnector and surge arrester



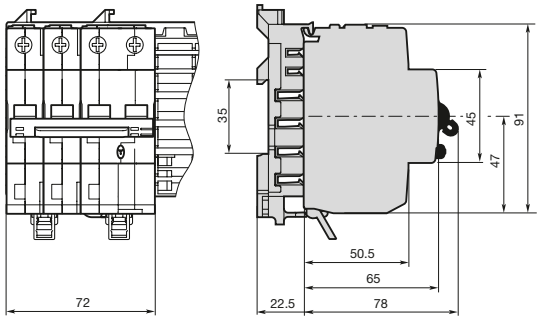
2-pole residual current operated circuit breaker



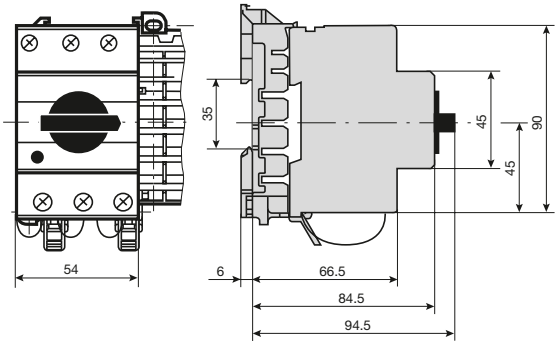
Auxiliary switch and signal contact



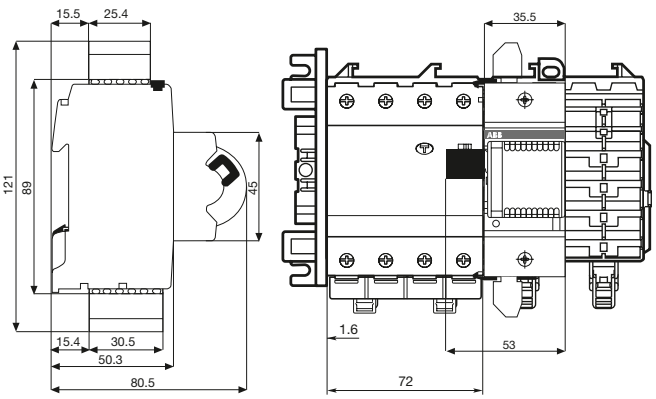
4-pole residual current operated circuit breaker



High performance manual motor starter MS325



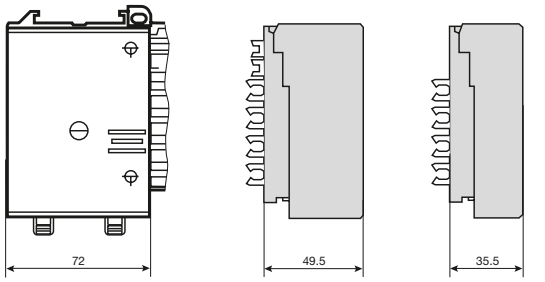
F4C-C M and F4C-AR I



Quick product references

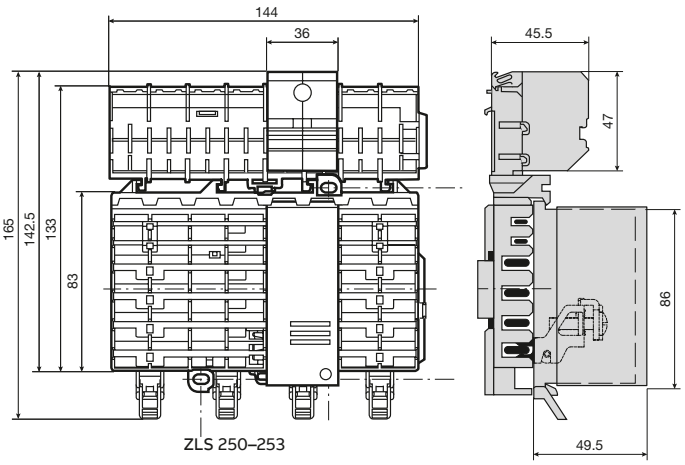
Overall dimensions

Incoming terminal blocks 100 A/160 A



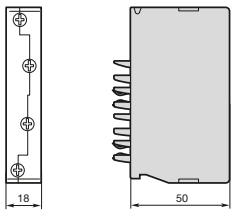
ZLS 224, 225 ZLS 228, 229

Incoming terminal component 200 A



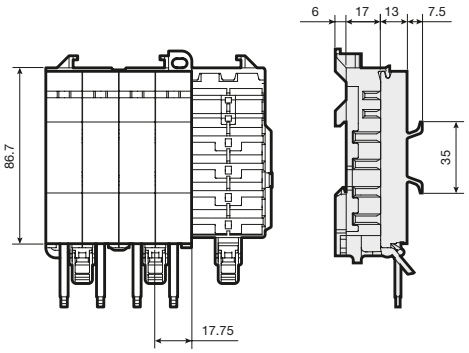
ZLS 250–253

Incoming terminal blocks 63 A
Incoming terminal block LA, LB



ZLS 260-262

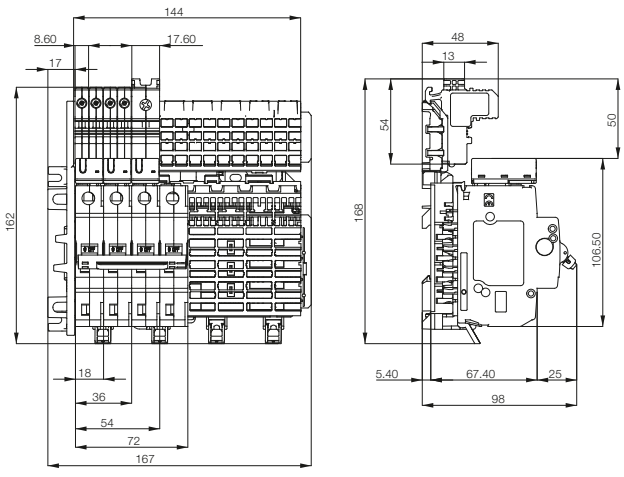
Universal adapter
32 A, 63 A



Socket base Z LS908

Receptacle

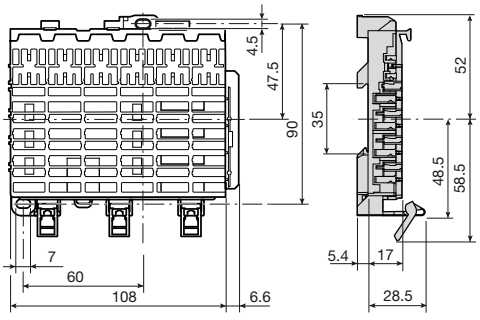
– 8 dimensional units



Socket base Z LS906

Receptacle

– 6 dimensional units

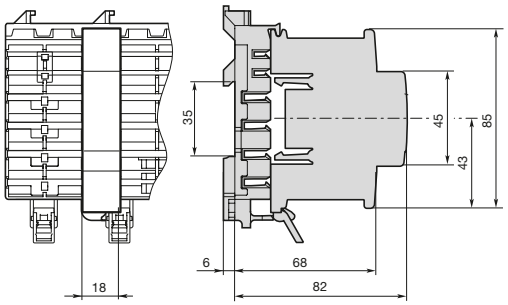


ZLS906

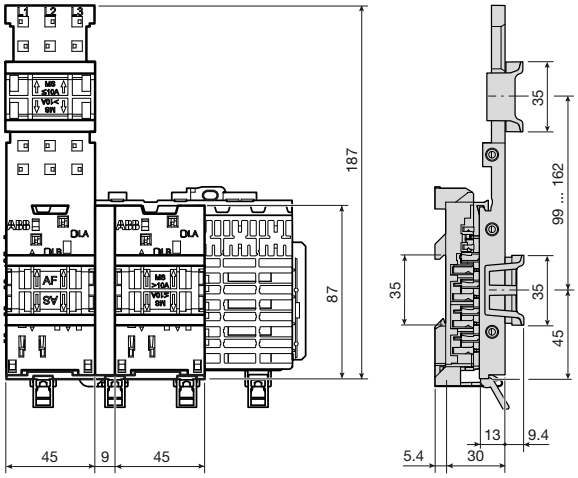
Quick product references

Overall dimensions

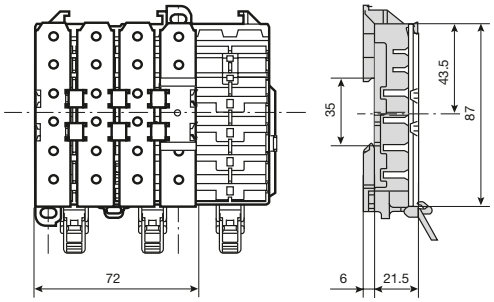
Intermediate piece ZLS 725



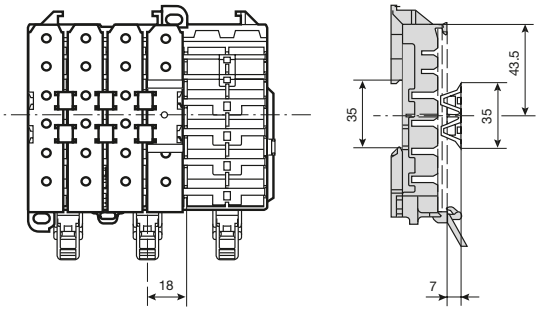
Combi module ZMS132, Adapter MS116/132



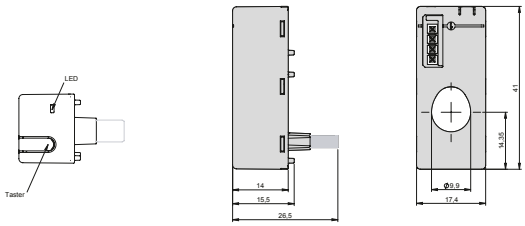
Busbar cover ZLS100



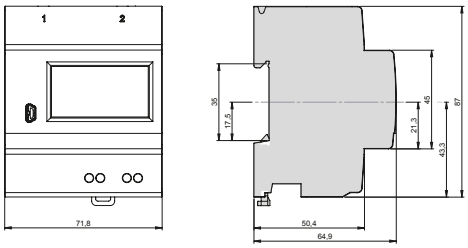
Extension adapter ZLS101



Sensor (CMS-100PS)



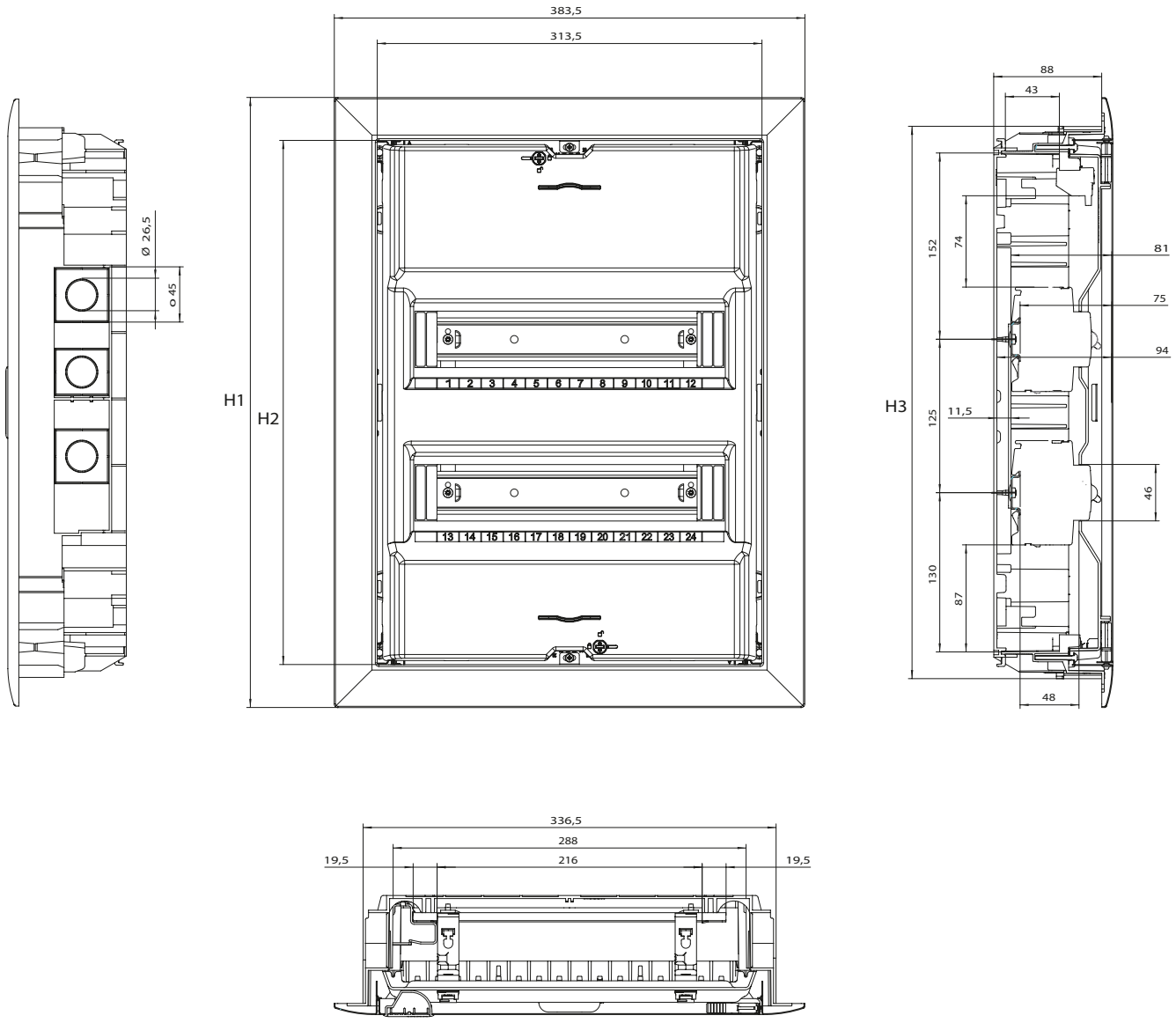
Control Unit (600)



Quick product references

Overall dimensions

UK600 Flush-mounting series – Consumer unit

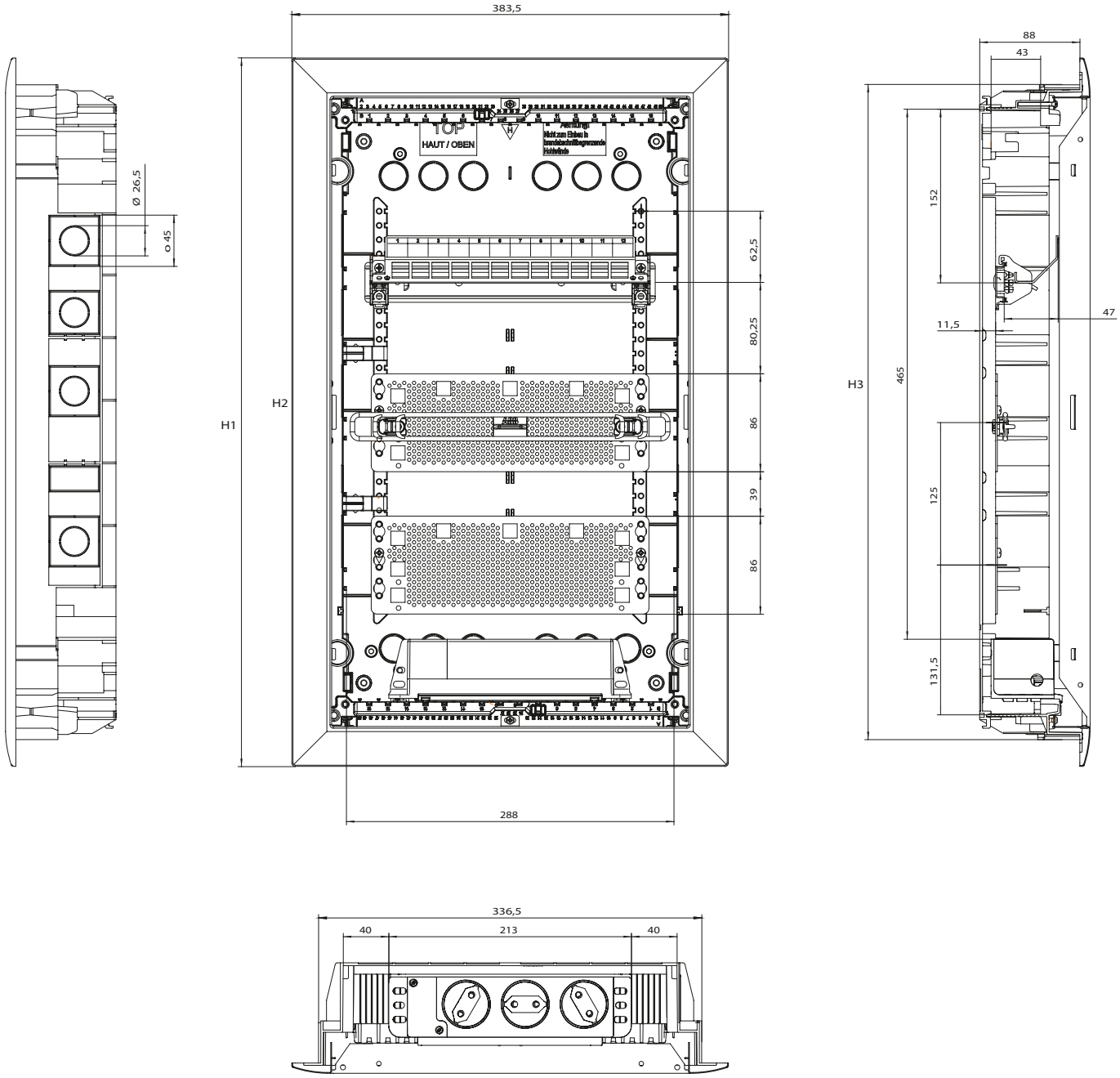


Type	Allowed power loss Pzul according to DIN 43671 (W)			Max. output capacity P de in accordance with DIN VDE 60670-24 (W)			Dimensions in mm		
	20K	25K	30K	20K	25K	30K	H1	H2	H3
UK61..	10.0	13.0	16.0	27.8	34.1	41.0	372	302	325
UK62..	11.5	15.0	19.0	38.0	46.5	56.0	497	427	450
UK63..	14.5	19.0	24.0	40.7	49.8	60.0	622	552	575
UK64..	16.5	21.5	27.0	47.7	58.8	71.0	747	677	700
UK66..				56.0	69.0	83.0	872	802	825

Quick product references

Overall dimensions

UK600 Flush-mounting series – Media enclosure

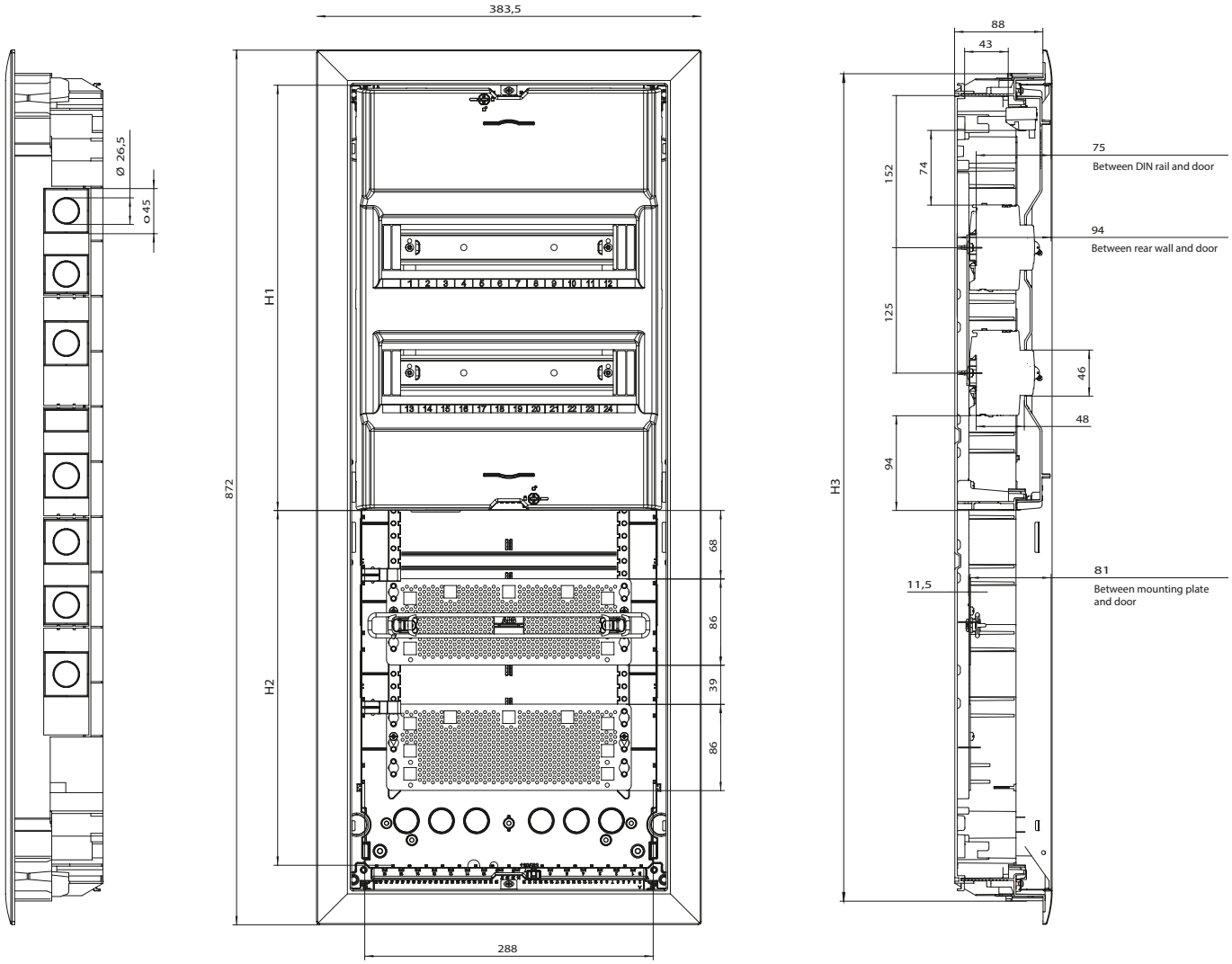


Type	Allowed power loss Pzul according to DIN 43671 (W)			Max. output capacity P de in accordance with DIN VDE 60670-24 (W)			Dimensions in mm		
	20K	25K	30K	20K	25K	30K	H1	H2	H3
UK62..	11.5	15.0	19.0	38.0	46.5	56.0	497	427	450
UK63..	14.5	19.0	24.0	40.7	49.8	60.0	622	552	575
UK64..	16.5	21.5	27.0	47.7	58.8	71.0	747	677	700
UK66..				56.0	69.0	83.0	872	802	825

Quick product references

Overall dimensions

UK600 Flush-mounting series – Combi enclosure

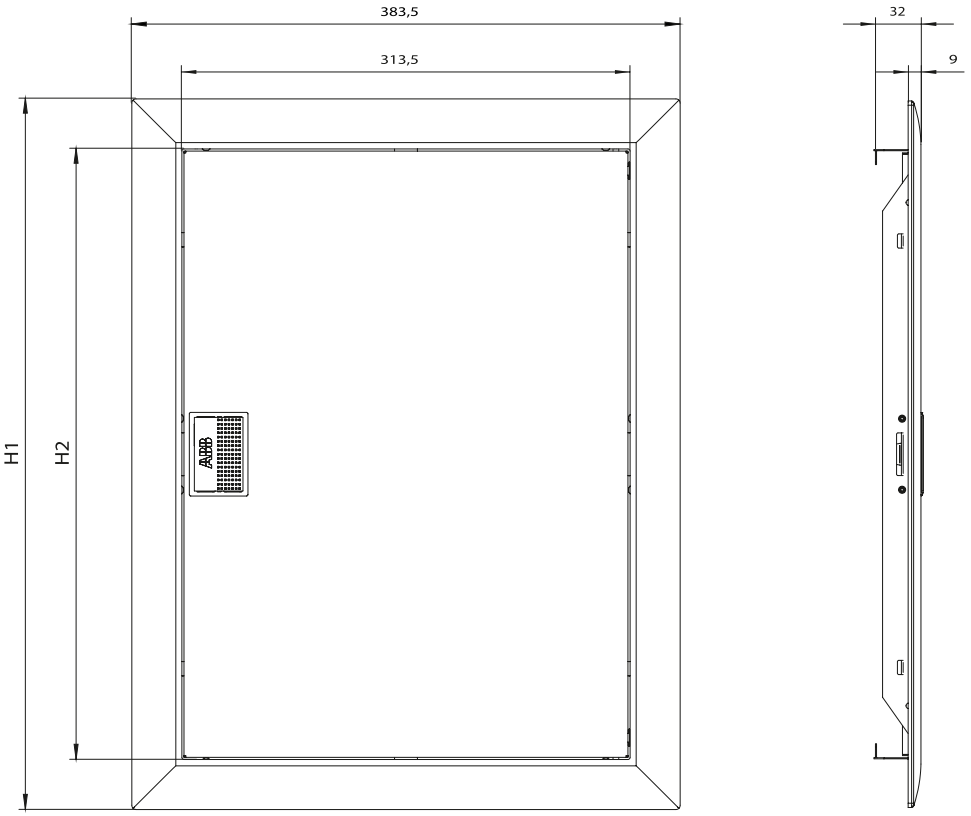


Type	Allowed power loss Pzul according to DIN 43671 (W)			Max. output capacity P de in accordance with DIN VDE 60670-24 (W)			Dimensions in mm	
	20K	25K	30K	20K	25K	30K	H1	H2
UK662..				56.0	69.0	83.0	424	353
UK663..				56.0	69.0	83.0	549	228

Quick product references

Overall dimensions

UK600 Flush-mounting series – Trim frame and door

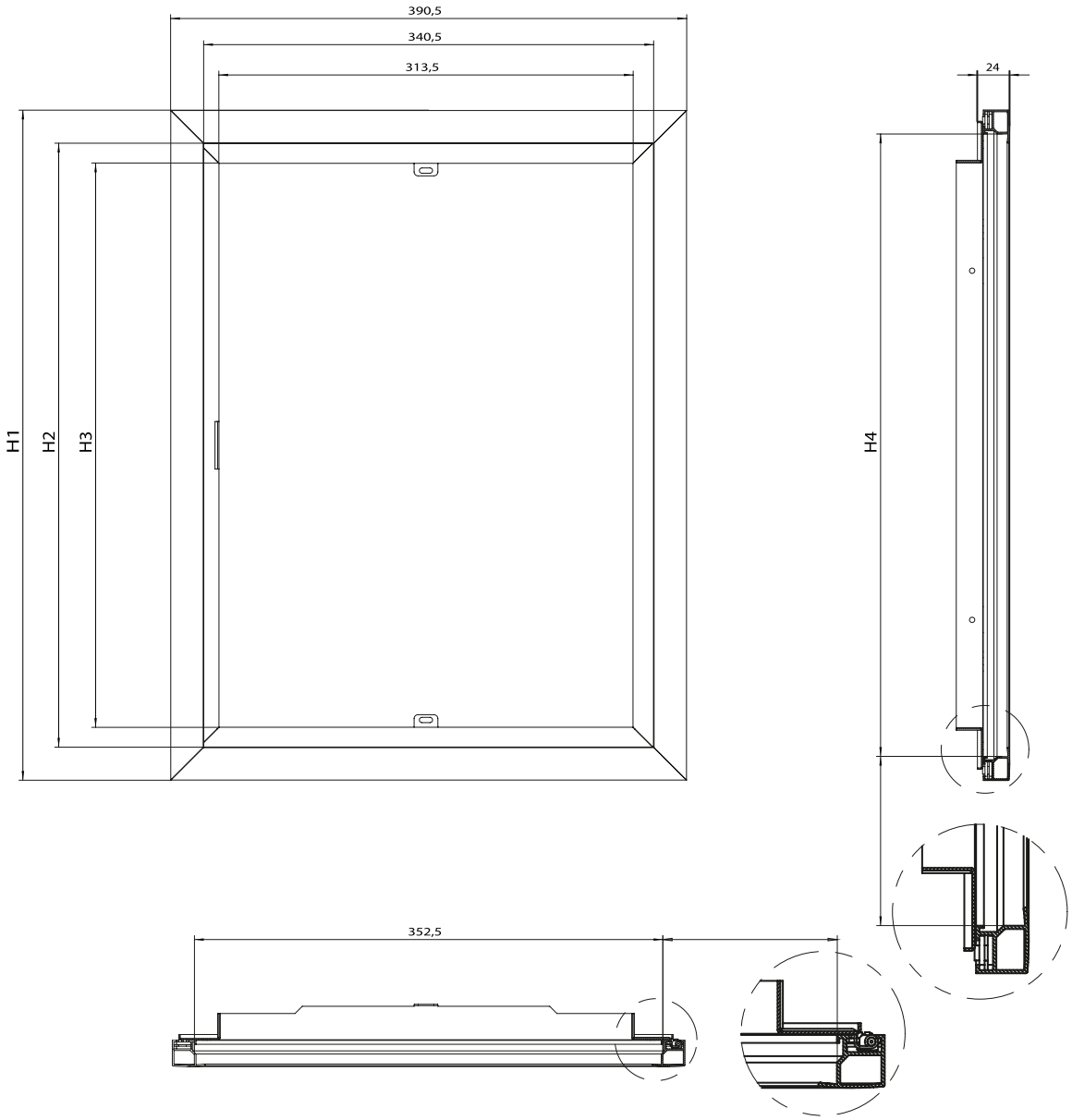


	Dimensions in mm	
Type	**H1**	**H2**
BL610	**302**	**372**
BL620	497	427
BL630	622	552
BL630	622	552
BL640	747	677
BL650	872	802

Quick product references

Overall dimensions

UK600 Flush-mounting series – Interchangeable design frame



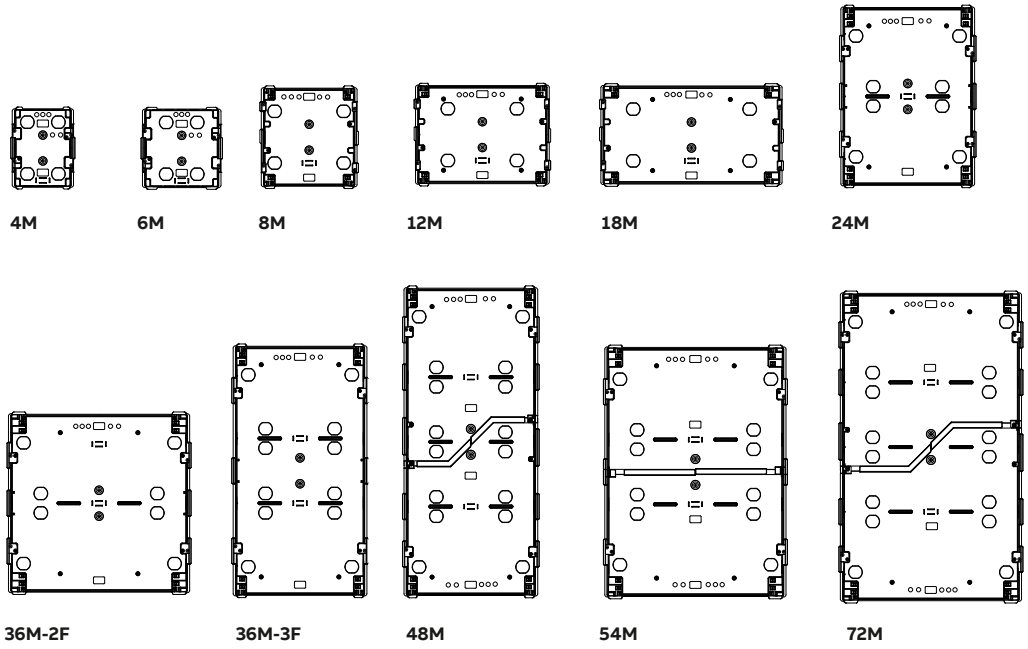
	Dimensions in mm				Technical specifications LED panel			
Type	**H1**	**H2**	**H3**	**H4**	**Type**	**U**	**P**	**Colour temperature**
BL520D	507	457	427	469	UZD624	12V DC	9.60 W	4200 K
BL630D	632	582	552	594	UZD634	12V DC	13.20W	4200 K
BL640D	757	707	677	719	UZD644	12V DC	15.60W	4200 K
BL650D	882	832	802	844	UZD654	12V DC	19.60W	4200 K

Quick product references

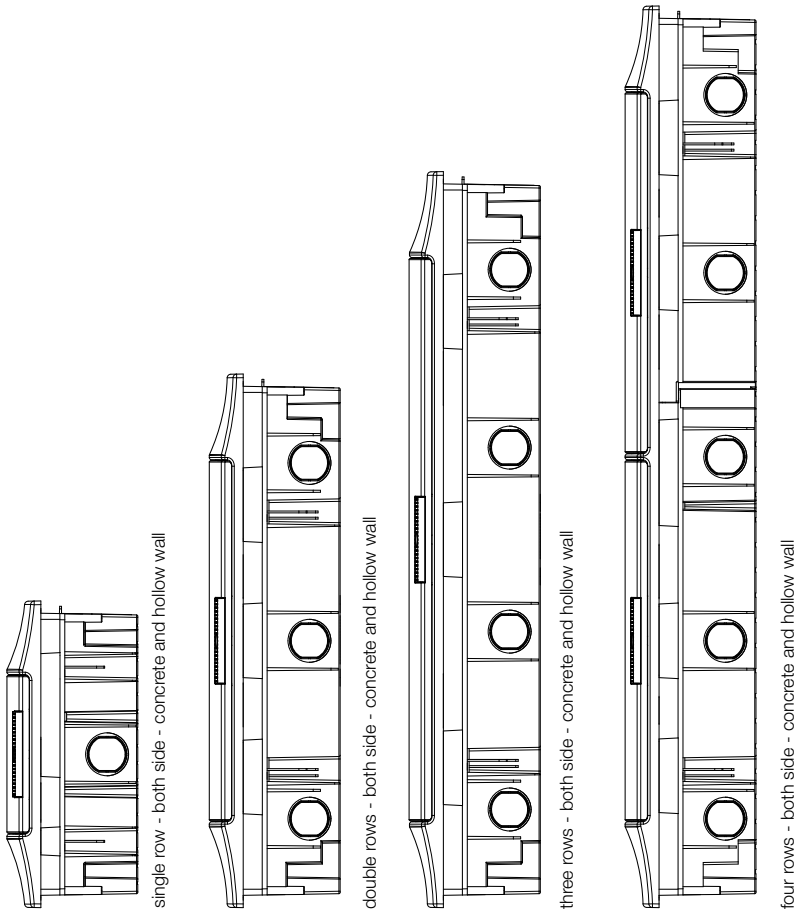
Overall dimensions

System pro E comfort MISTRAL41F

Box	
Modules	**diam. 32**
4M	4
6M	4
8M	4
12M	4
18M	4
24M	8
36M – 2F	8
36M – 3F	12
48M	16
54M	12
72M	16



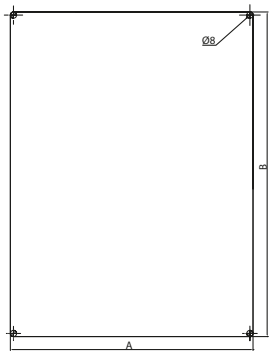
Site	
Modules	**diam. 32**
4M	1
6M	1
8M	1
12M	1
18M	1
24M	3
36M – 2F	3
36M – 3F	4
48M	5
54M	4
72M	5



Quick product references

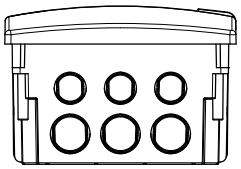
Overall dimensions

Hollow wall holes dimensions

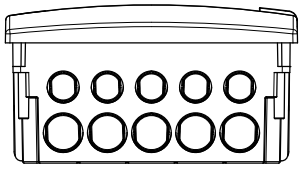


	A	B
4 M	143	183
6 M	183	183
8 M	223	231
12 M	311	231
18 M	421	231
24 M	311	416
36 M - 2F	421	416
36 M - 3F	311	581
48 M	311	716
54 M	421	581
72 M	421	716

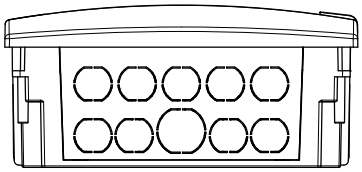
Cable entry					
Modules	**diam. 40**	**diam. 32**	**diam. 25**	**diam. 20**	**Flange**
4	-	-	3	3	///
6	-	-	5	5	///
8	-	1	9	-	150x55
12	1	8	4	-	240x55
18	1	12	2	-	330x55



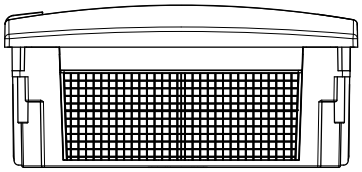
4 modules - top and bottom - concrete and hollow wall



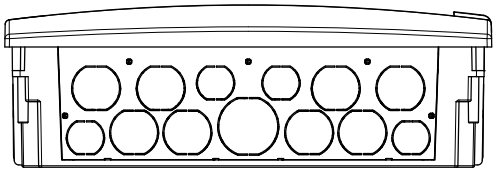
6 modules - top and bottom - concrete and hollow wall



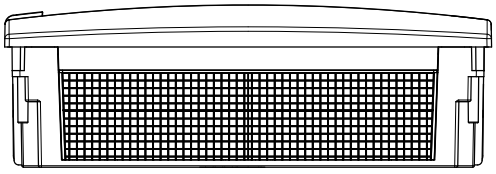
8 modules - top and bottom - hollow wall



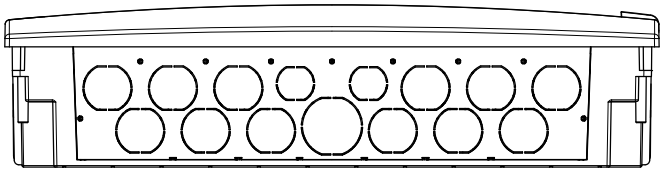
8 modules - top and bottom - concrete wall



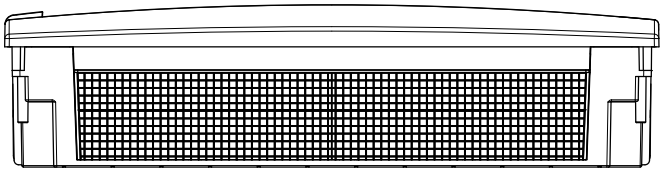
12 modules - top and bottom - hollow wall



12 modules - top and bottom - concrete wall



18 modules - top and bottom - hollow wall

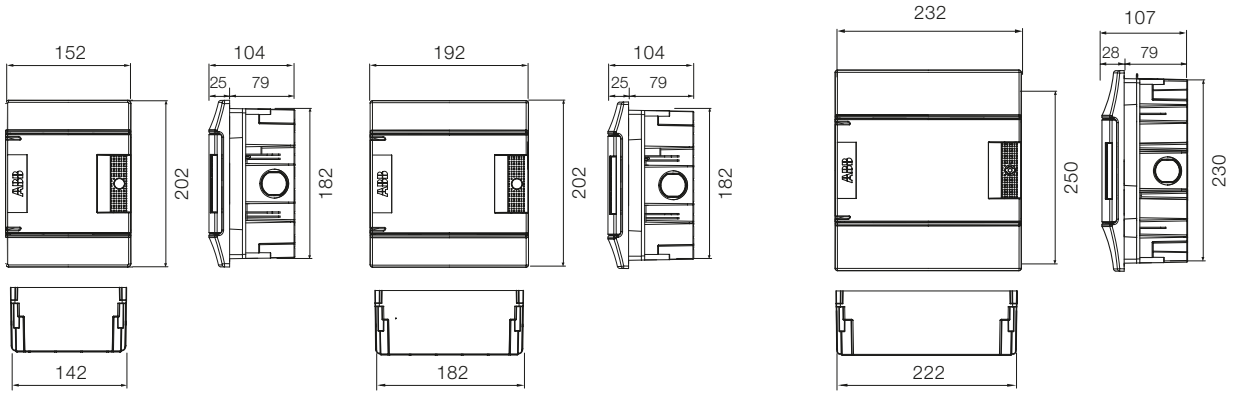


18 modules - top and bottom - concrete wall

Quick product references

Overall dimensions

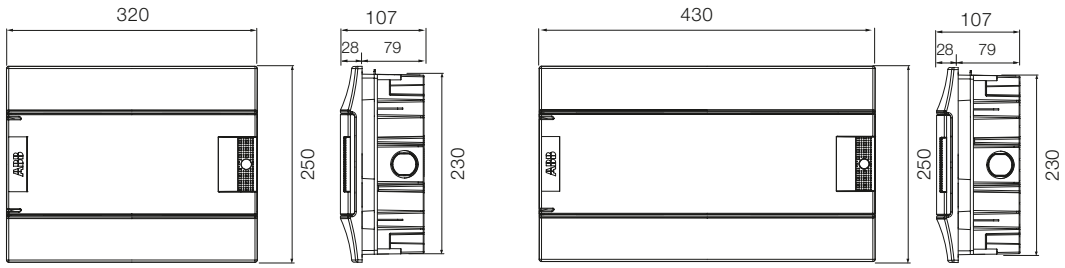
System pro E comfort MISTRAL41F



4 modules

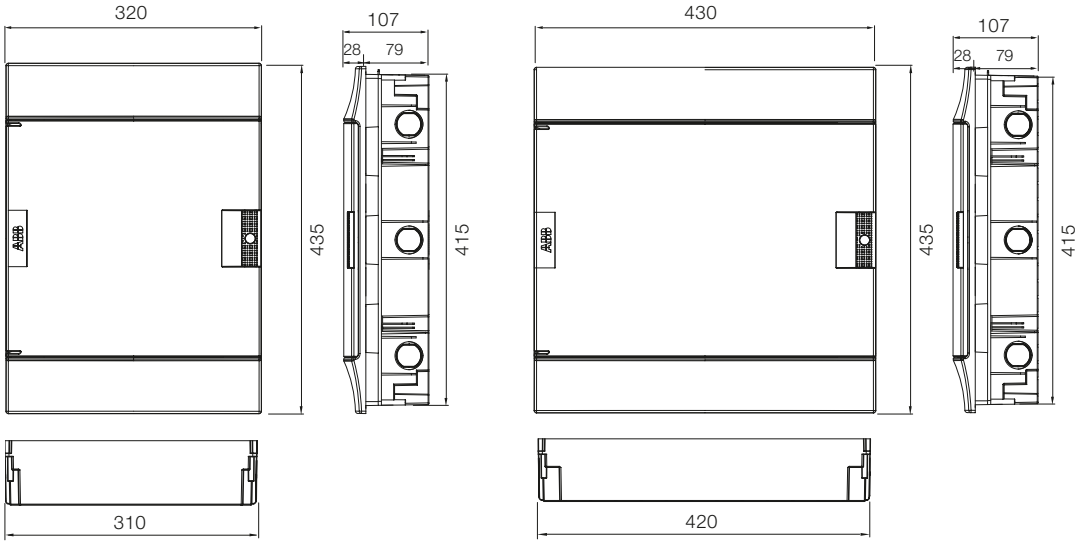
6 modules

8 modules



12 modules

18 modules

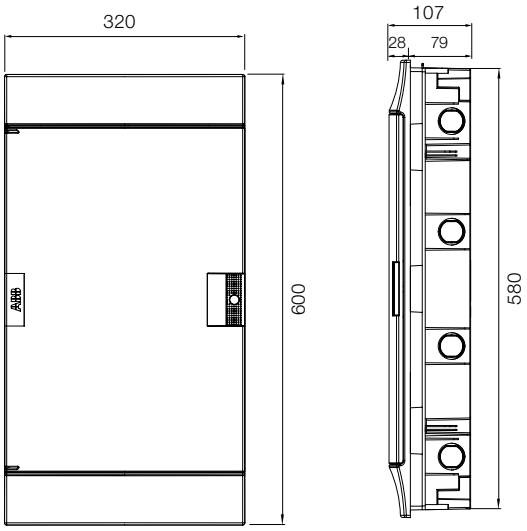


24 modules

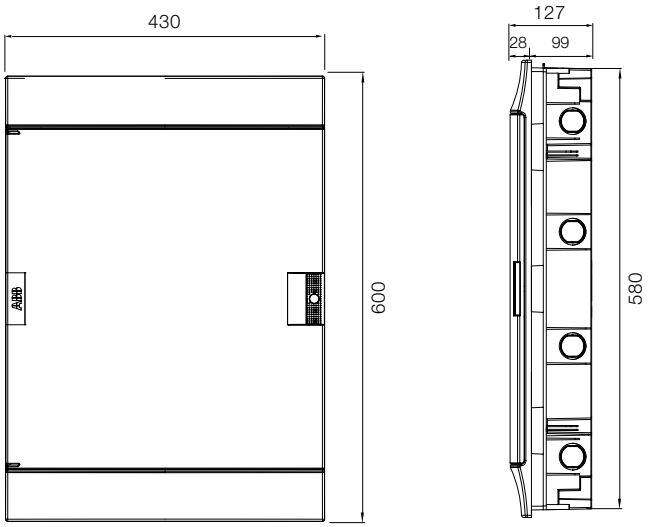
36 modules

Quick product references

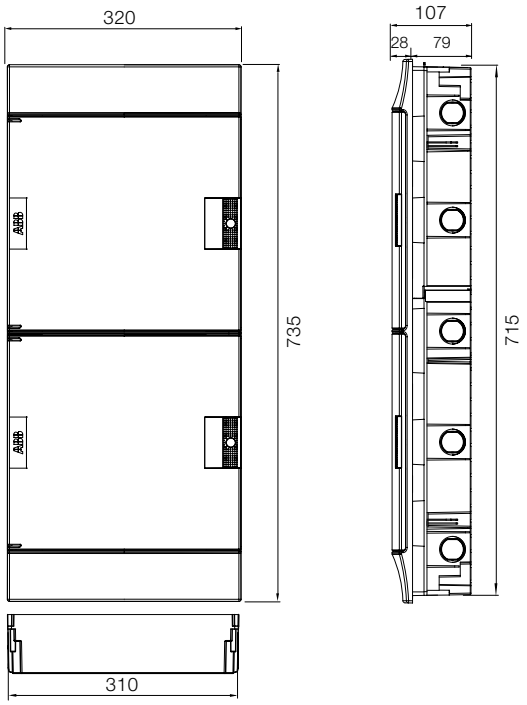
Overall dimensions



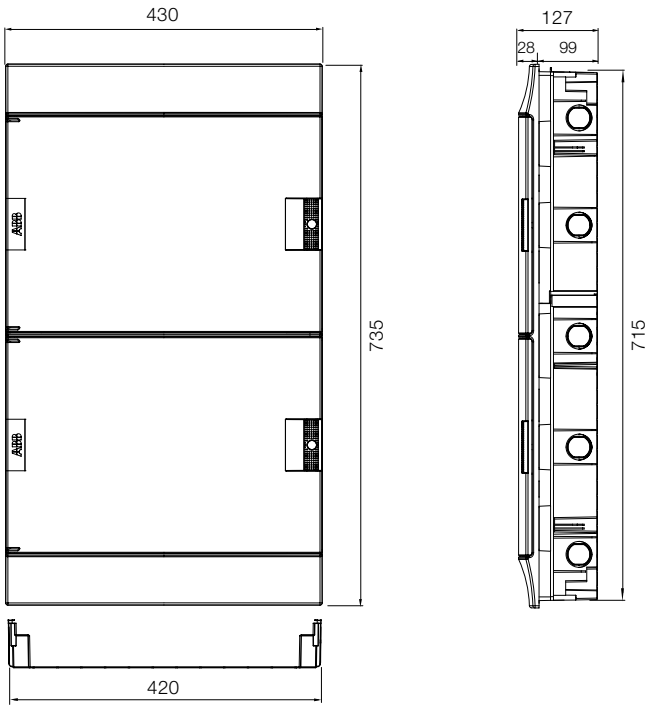
36 modules



54 modules



48 modules

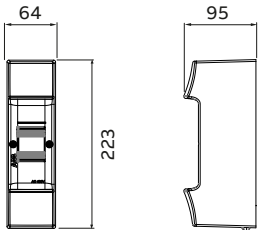


72 modules

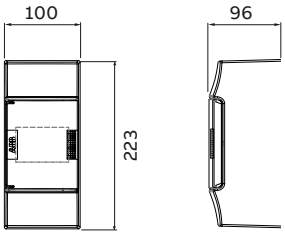
Quick product references

Overall dimensions

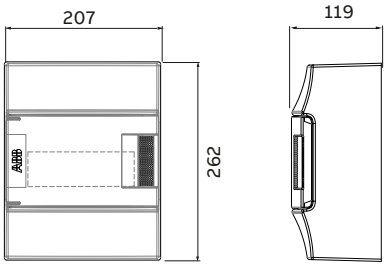
System pro E comfort MISTRAL41W



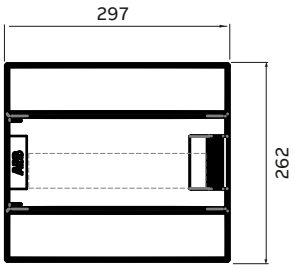
1 module



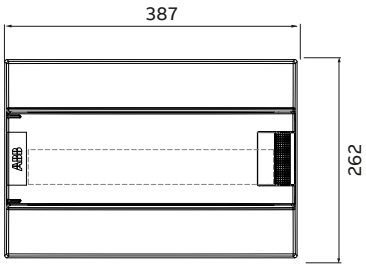
4 modules



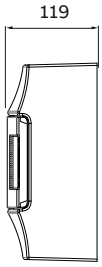
8 modules

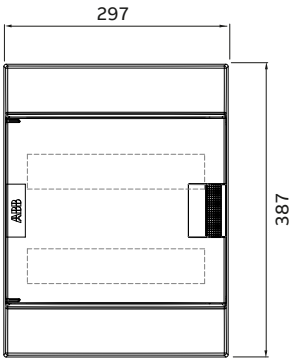


12 modules

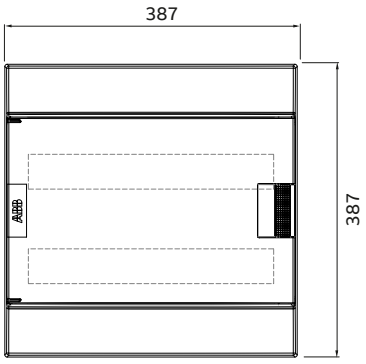


18 modules





24 modules

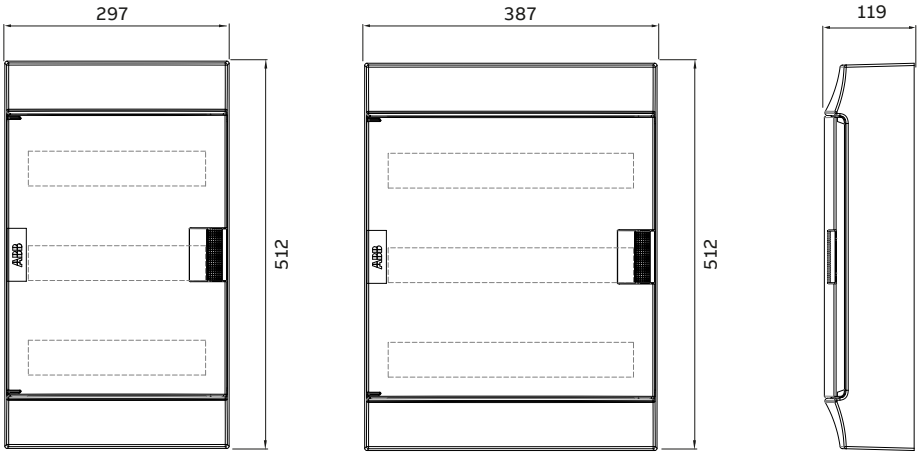


36 modules

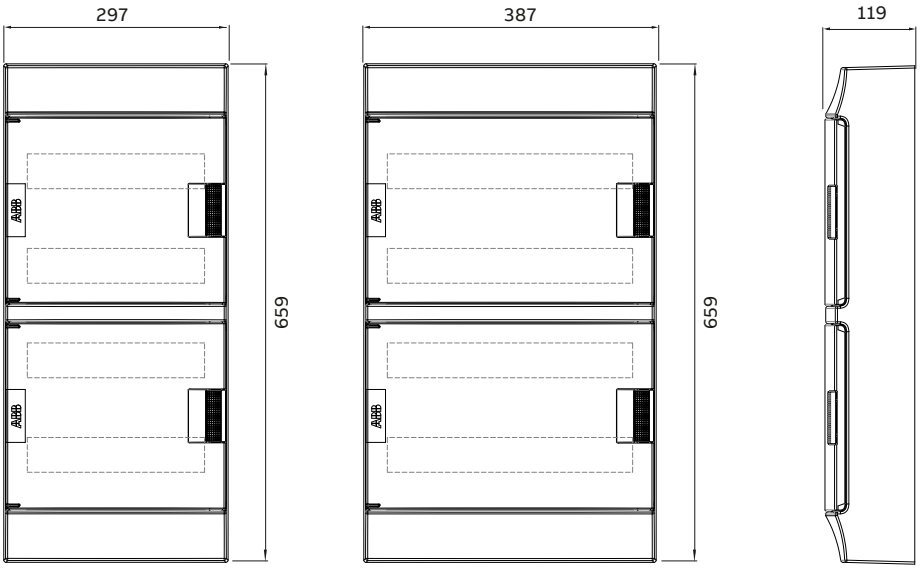


Quick product references

Overall dimensions



36 modules **54 modules**



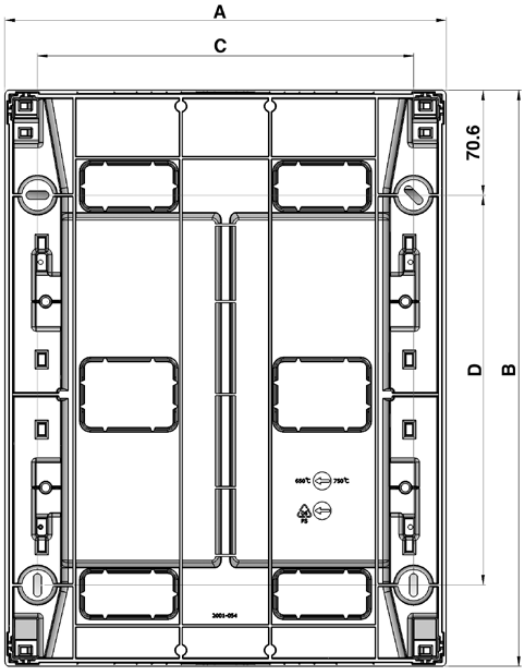
48 modules **72 modules**

Quick product references

Overall dimensions

System pro E comfort MISTRAL41W

Consumer unit fixing template System pro E comfort MISTRAL41W



	A	B	C	D
8 Modules	206,5	262	163	137
12 Modules	297	262	253	137
18 Modules	387	262	343	137
24 Modules	297	387	253	262
36 Modules 18x2	387	387	343	262
36 Modules 12x3	297	512	253	387
48 Modules	297	659	253	518
54 Modules	387	512	343	387
72 Modules	387	659	343	518

Quick product references

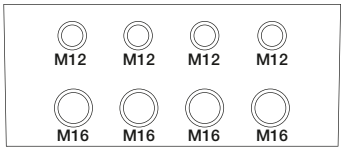
Overall dimensions

System pro E comfort MISTRAL65

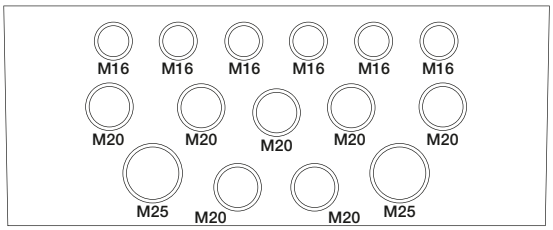
Cable gland table

		Cable Glands		
Modules		**diam. 16**	**diam. 20**	**diam. 25**
4	04x1	2	-	-
8	08x1	3	3	-
12	12x1	2	2	2
24	12x2	5	5	2
36	12x3	5	5	2
48	12x4	5	5	2
18	18x1	2	2	2
36	18x2	5	5	2
54	18x3	5	5	2
72	18x4	5	5	2

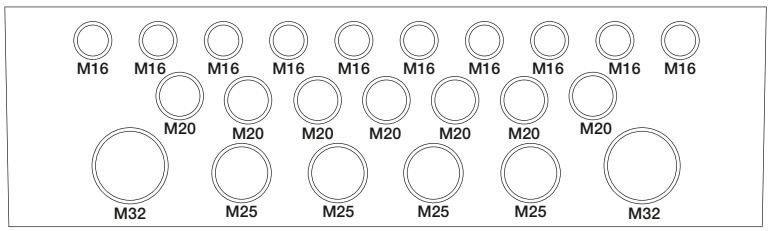
		Holes				
Modules		**diam. 12**	**diam. 16**	**diam. 20**	**diam. 25**	**diam. 32**
4	04x1	4	4	-	-	-
8	08x1	-	6	7	2	-
12	12x1	-	10	7	4	2
24	12x2	-	10	7	4	2
36	12x3	-	10	7	4	2
48	12x4	-	10	7	4	2
18	18x1	-	14	9	4	2
36	18x2	-	14	9	4	2
54	18x3	-	14	9	4	2
72	18x4	-	14	9	4	2



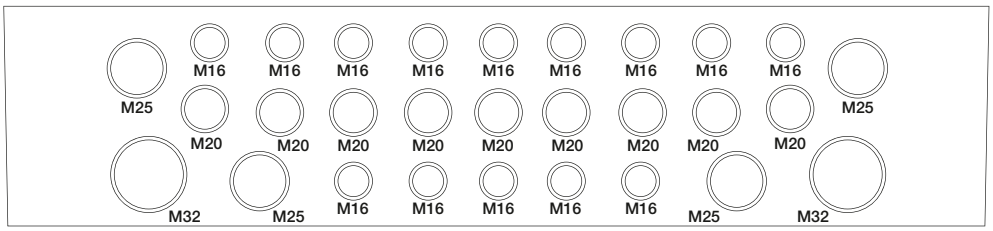
4 modules - top and bottom



8 modules - top and bottom



12 modules - top and bottom

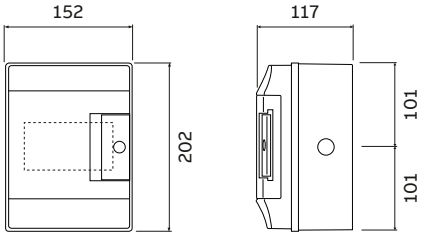


18 modules - top and bottom

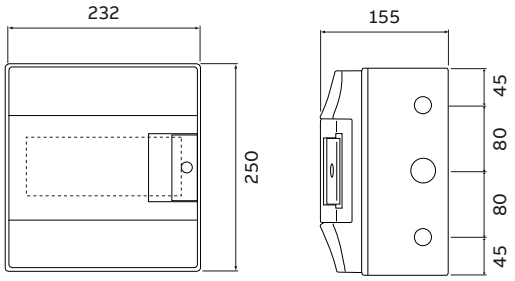
Quick product references

Overall dimensions

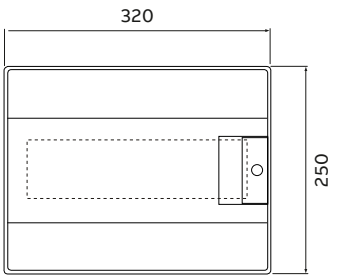
System pro E comfort MISTRAL65



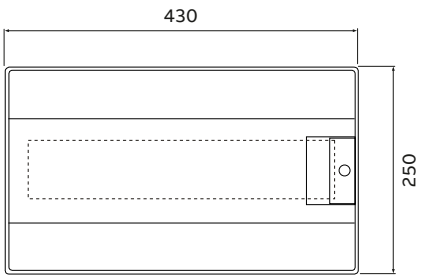
4 modules



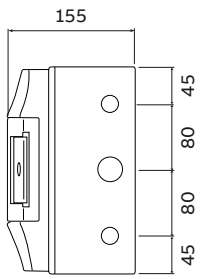
8 modules

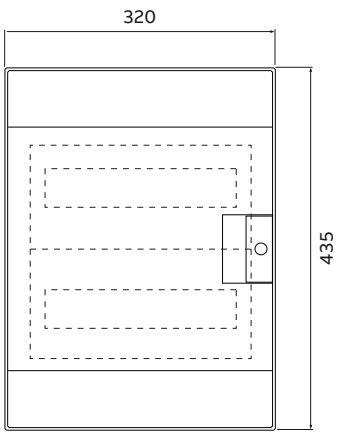


12 modules

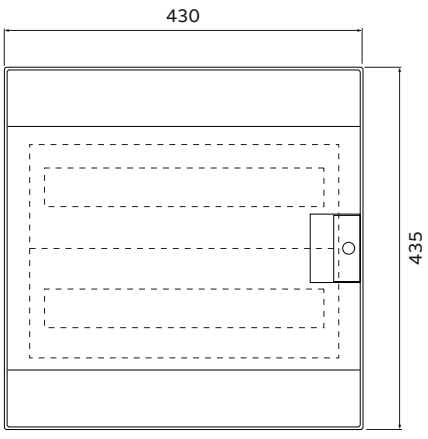


18 modules

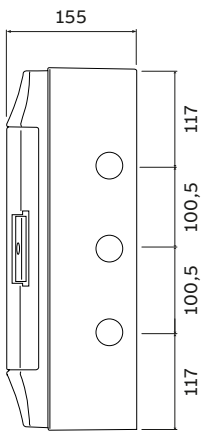




24 modules

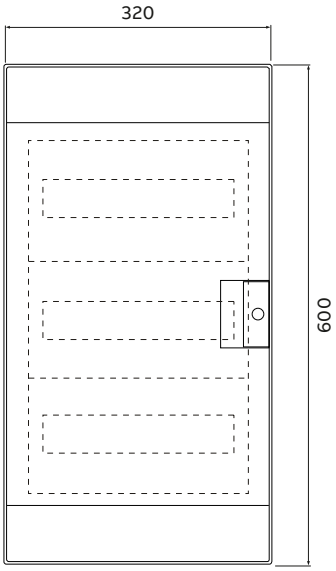


36 modules

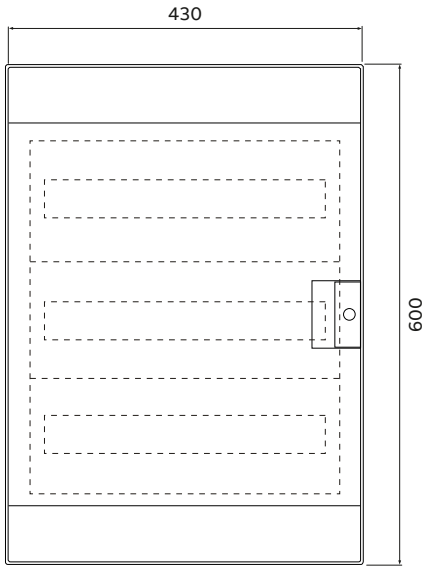


Quick product references

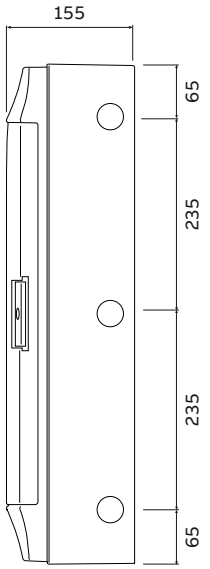
Overall dimensions

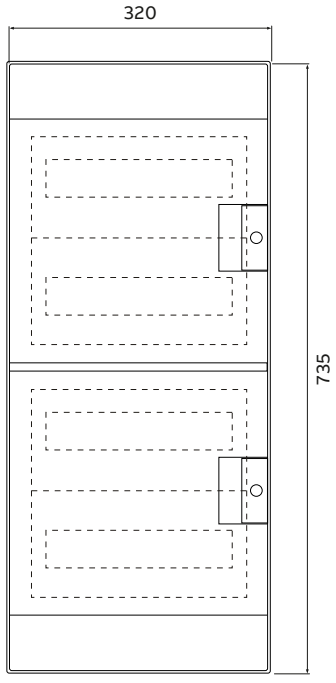


36 modules

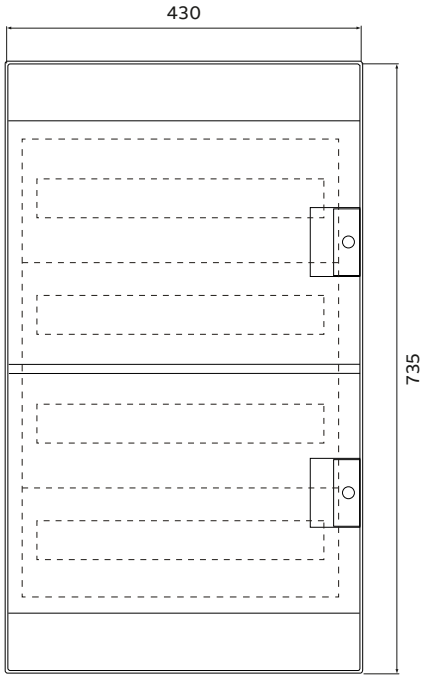


54 modules

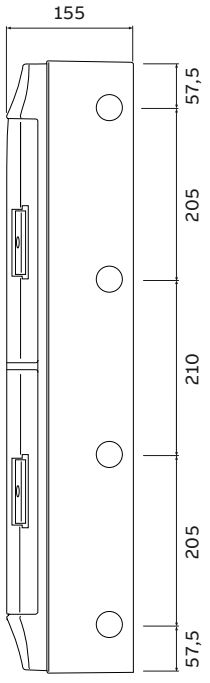




48 modules



72 modules

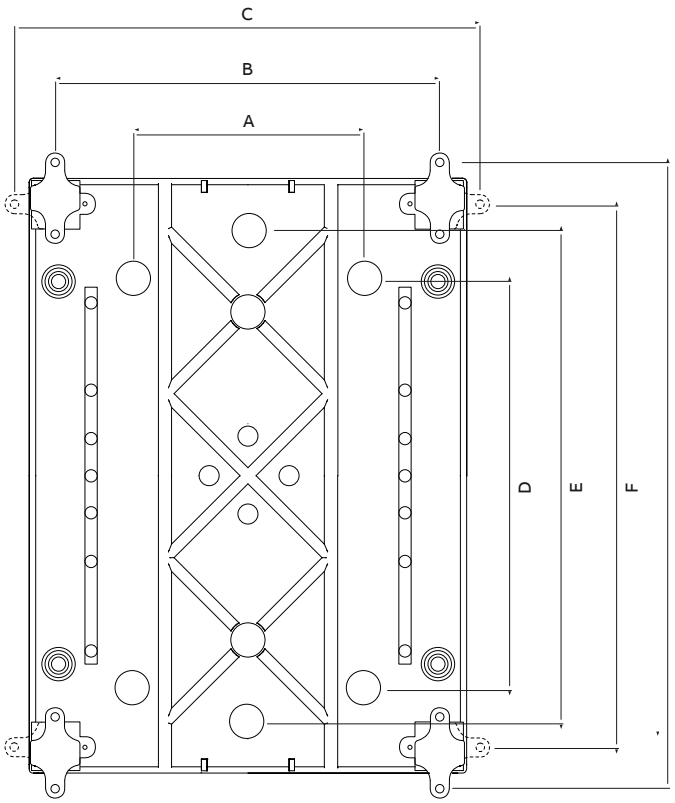


Quick product references

Overall dimensions

System pro E comfort MISTRAL65

Consumer unit fixing template



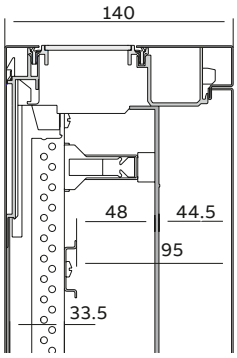
	A	B	C	D	E	F	G
4 Modules		113	173		140	163	223,5
8 Modules	90	194	254,5	180		212	272,5
12 Modules	170	282,5	343	180		212	272,5
18 Modules	280	392	452,5	125	175	212	272,5
24 Modules	170	282,5	343	310	360	397	457,5
36 Modules - 2 F	280	392	452,5	310	360	397	457,5
36 Modules - 3 F	170	282,5	343	475	525	562	622,5
48 Modules	170	282,5	343	610	660	697	757,5
54 Modules	280	392	452,5	475	525	562	622,5
72 Modules	280	392	452,5	610	660	697	757,5

Quick product references

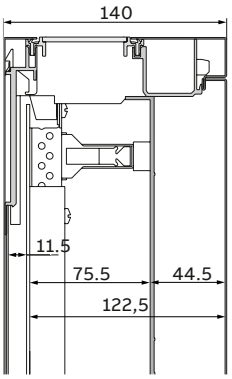
Overall dimensions

AT/U Series

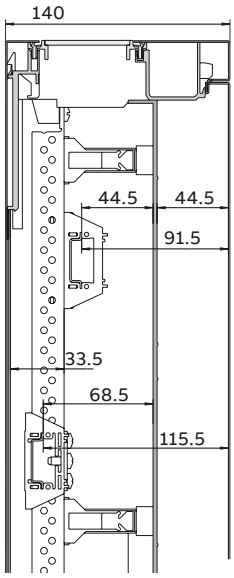
Wall-mounting with door, AT series



Compact distribution board panel

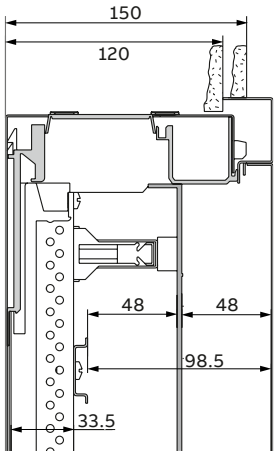


Panel with mounting plate

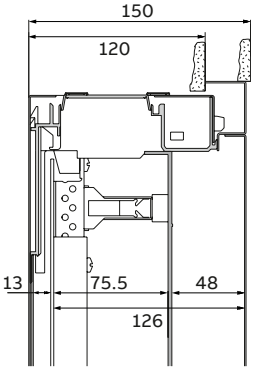


Panel for terminals

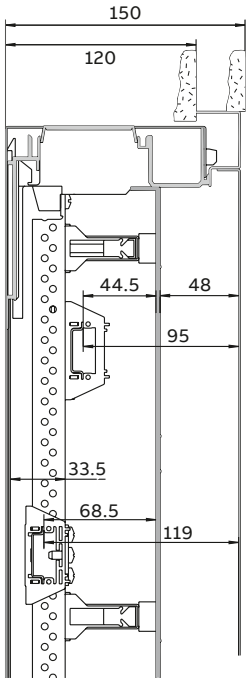
Flush-mounting with door, U series



Compact distribution board panel



Panel with mounting plate



Panel for terminals

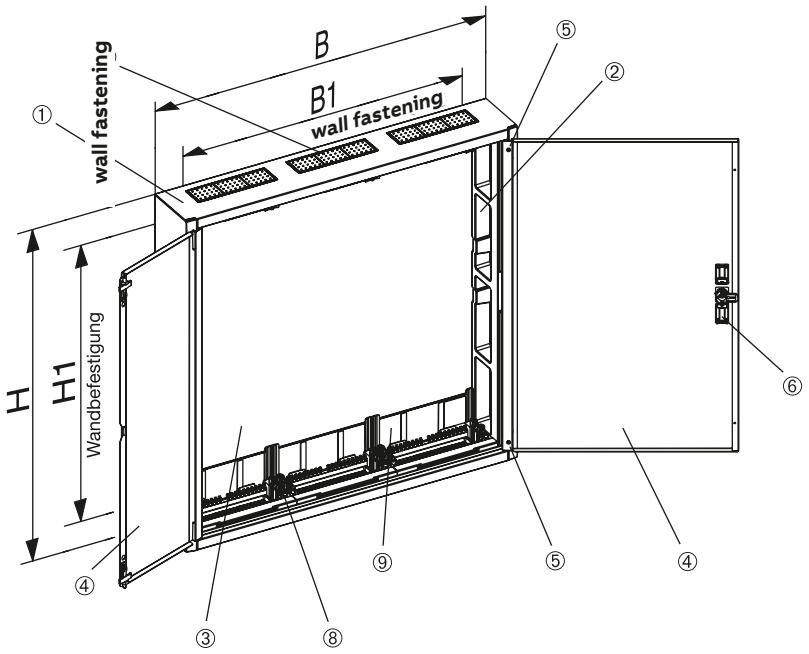
Quick product references

Overall dimensions

Compact distribution boards

Type	H	W	H1	W1
AT22E	374	574	235	417
AT31	524	324	385	167
AT32, AT32TE, AT32R2, AT32TR2	524	574	385	417
AT41, AT41TE, AT41R3, AT41TR3	674	324	535	167
AT42, AT42TE, AT42M, AT42/2, AT42R3, AT42TR3	674	574	535	417
AT43, AT43R3, AT43TR3	674	824	535	667
AT51, AT51TE, AT51R4, AT51TR4	824	324	685	167
AT52, AT52TE, AT52K, AT52/2, AT52R4, AT52TR4	824	574	685	417
AT53, AT53M,AT53K, AT53R4, AT53TR4	824	824	685	667
AT54K, AK54E, AT54R4	824	1074	685	917
AT61, AT61TE, AT61R5, AT61TR5	974	324	835	167
AT62, AT62TE, AT62K, AT62R5, AT62TR5	974	574	835	417
AT63E, AT63K, AT63R5, AT63TR5	974	824	835	667
AT64K	974	1074	835	917
AT72, AT72K, AT72R6, AT72TR6	1124	574	985	417
AT73K, AT73R6, AT73TR6	1124	824	985	667

Dimensions in mm

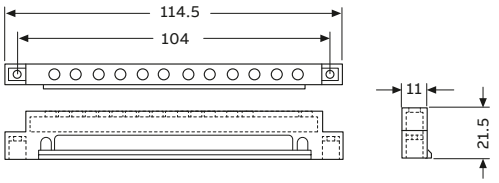


Quick product references

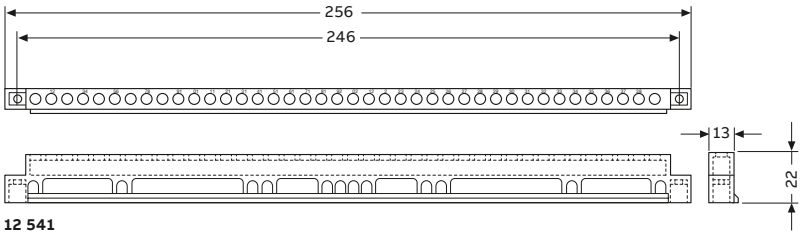
Overall dimensions

Terminal blocks for MISTRAL series

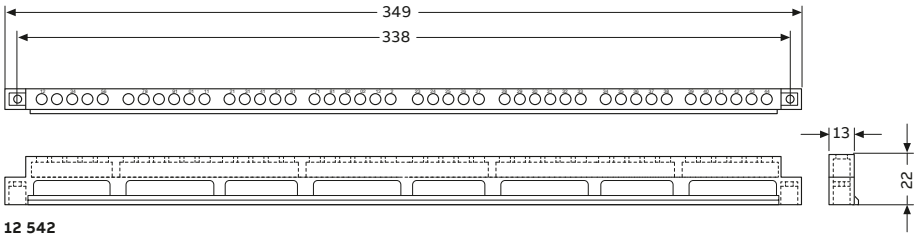
Terminal holders – dimensions



12 539



12 541



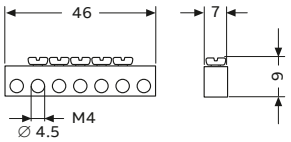
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Quick product references

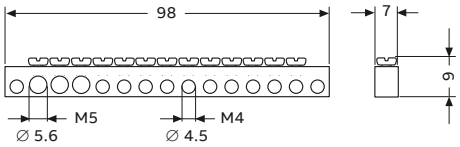
Overall dimensions

Terminal blocks for MISTRAL series

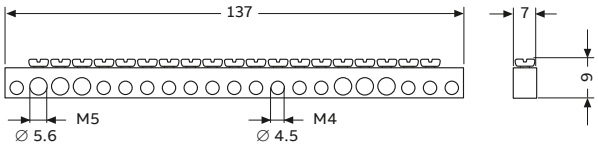
Terminal bars – dimensions



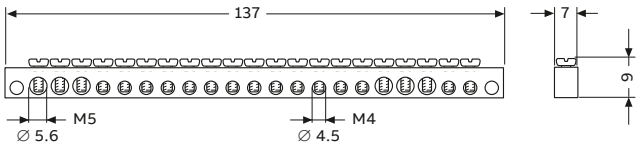
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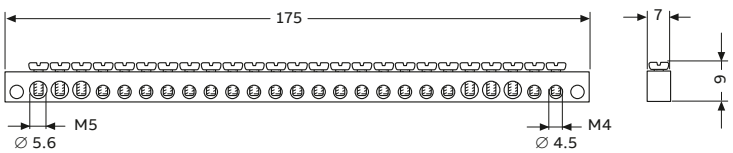
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12 533



12 534



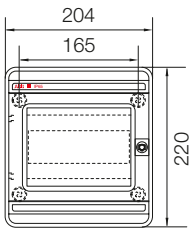
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Quick product references

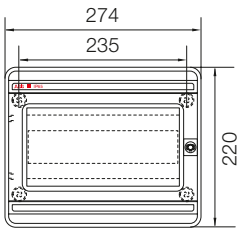
Overall dimensions

EUROPA65 Series wall-mounting consumer units

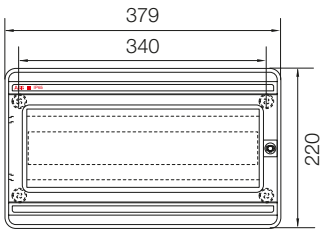
Front view



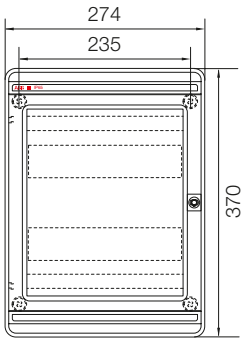
8 modules



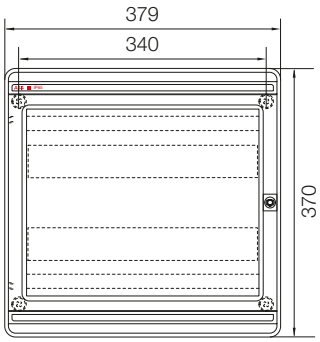
12 modules



18 modules

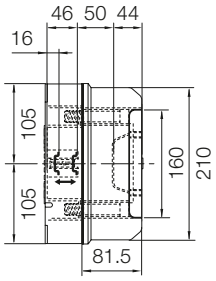


24 modules

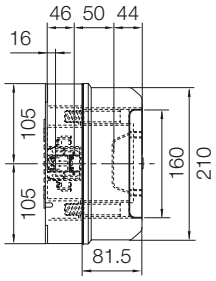


36 modules

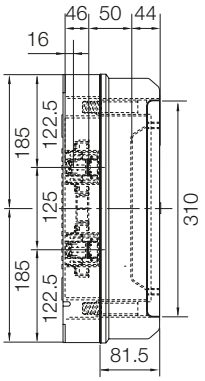
Side view



8 - 12 modules



18 modules



24 -36 modules

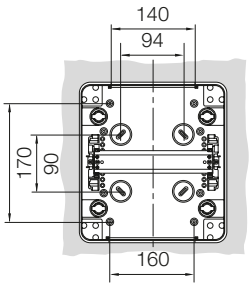
Dimensions mm

Quick product references

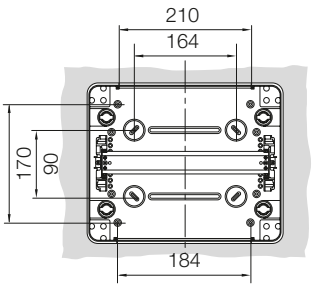
Overall dimensions

EUROPA65 Series wall-mounting consumer units

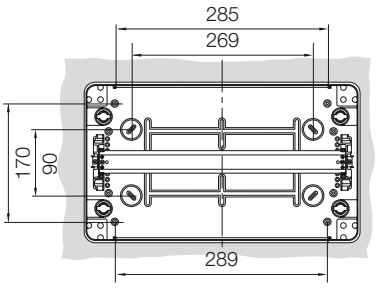
Drilling sheets



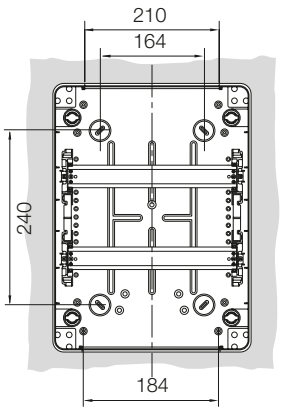
8 modules



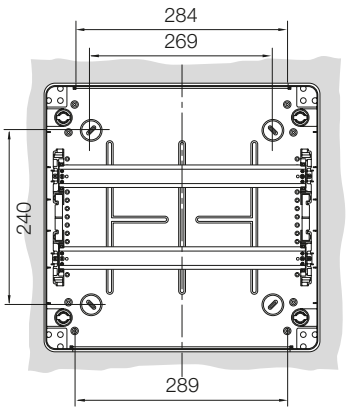
12 modules



18 modules



24 modules



36 modules

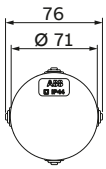
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12	1SL2752A01
18	1SL2753A01
24	1SL2754A01
36	1SL2755A01

Quick product references

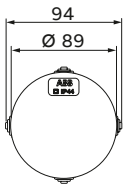
Overall dimensions

IP44, IP55 and IP65 junction boxes

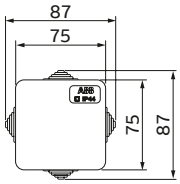
Front view



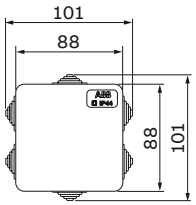
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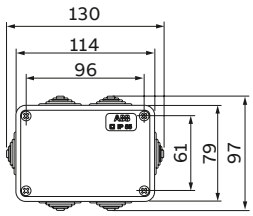
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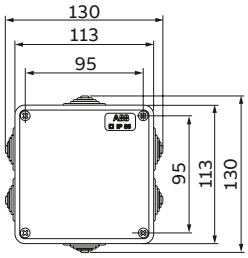
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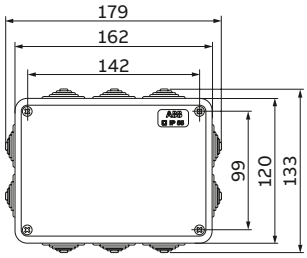
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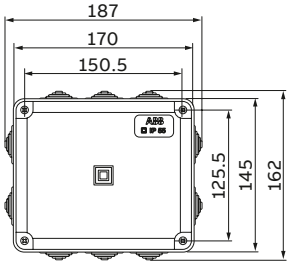
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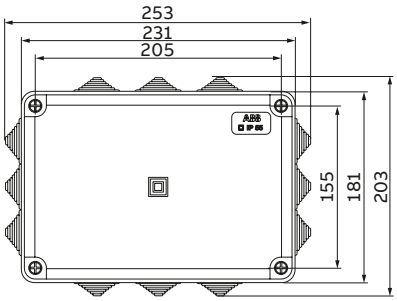
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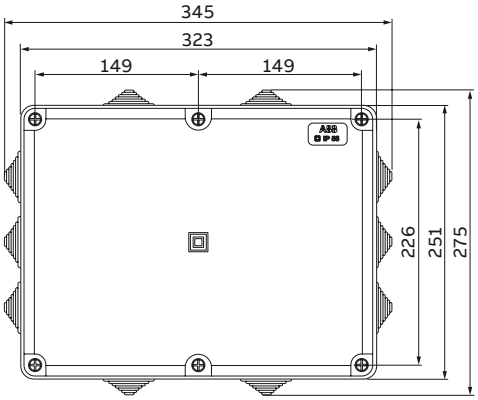
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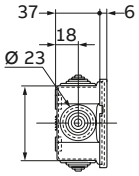
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Quick product references

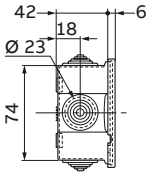
Overall dimensions

IP44, IP55 and IP65 junction boxes

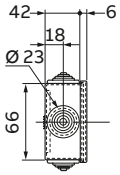
Side view



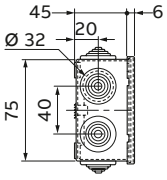
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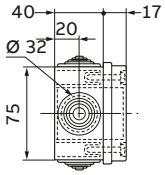
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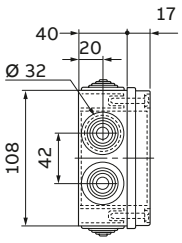
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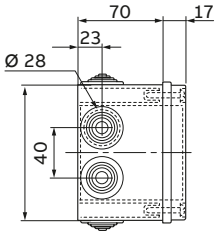
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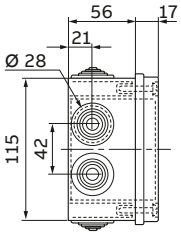
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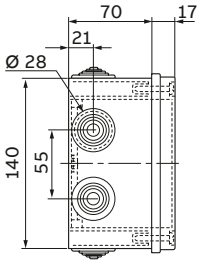
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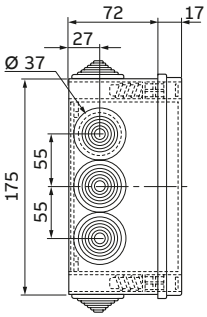
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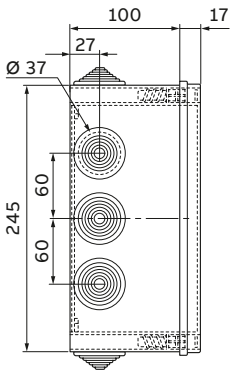
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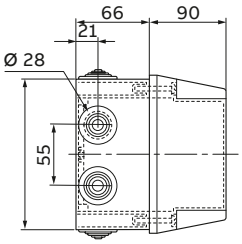
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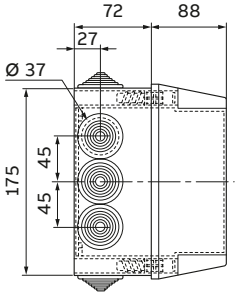
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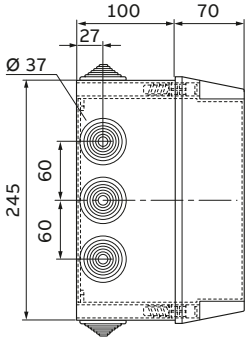
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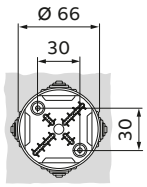


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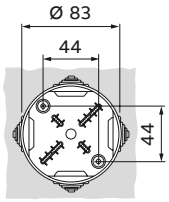
Quick product references

Overall dimensions

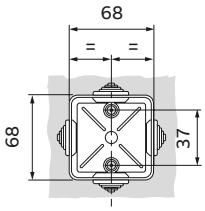
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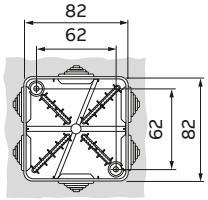
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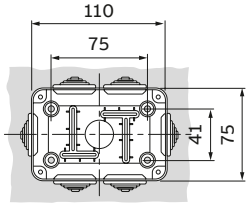
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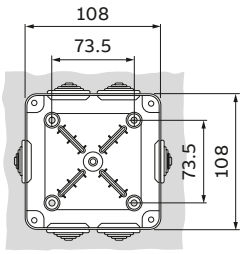


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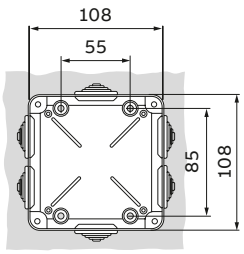
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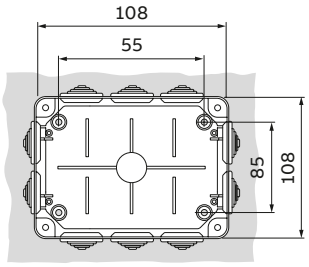
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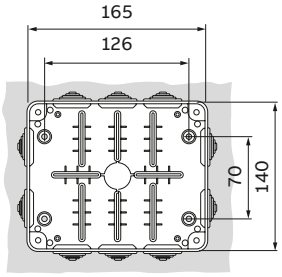
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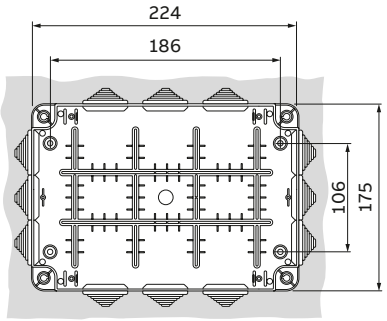
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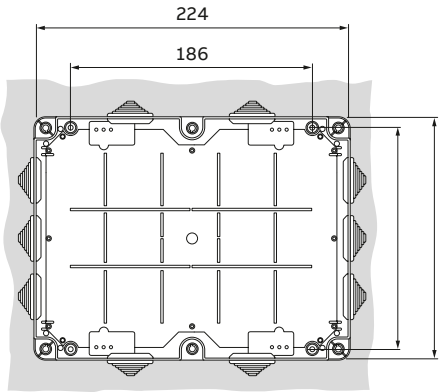
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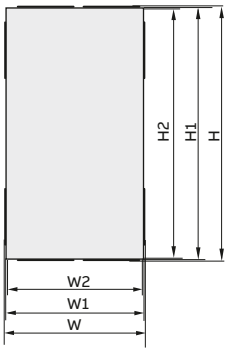
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Quick product references

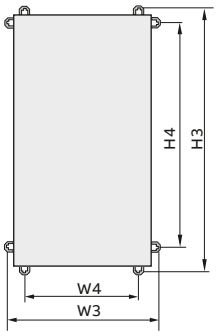
Overall dimensions

TwinLine S 43

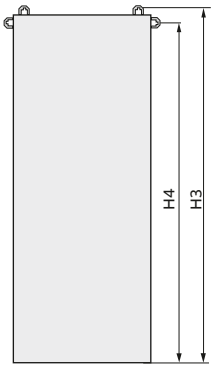
Front view
Wall-mounting and floor-standing cabinet
External/internal dimensions



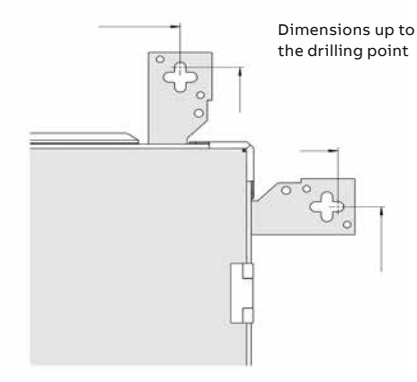
Front view
Wall-mounting cabinet
Wall fastening dimensions



Front view
Floor-standing cabinet
Wall fastening dimensions



Front view
External fastening
Detail



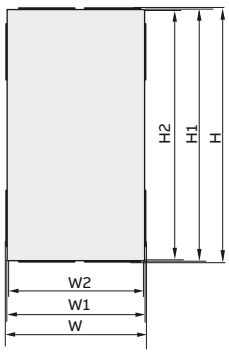
Cabinet types H x W x D	External dimensions in mm			Internal dimensions in mm		External dimensions with embossing in mm		Wall fastening dimensions in mm			
	H1	W1	D1	H2	W2	H	W	H3	W3	H4	W4
400 x 300 x 225	450	390	225	402	342	454	394	578.5	518.5	345	285
600 x 300 x 225	650	390	225	602	342	654	394	778.5	518.5	545	285
800 x 300 x 225	850	390	225	802	342	854	394	978.5	518.5	745	285
1000 x 300 x 225	1050	390	225	1002	342	1054	394	1178.5	518.5	945	285
1200 x 300 x 225	1250	390	225	1202	342	1254	394	1378.5	518.5	1145	285
1400 x 300 x 225	1450	390	225	1402	342	1454	394	1514	518.5	1292.5	285
1600 x 300 x 225	1650	390	225	1602	342	1654	394	1714	518.5	1492.5	285
1800 x 300 x 225	1850	390	225	1802	342	1854	394	1914	518.5	1692.5	285
2000 x 300 x 225	2050	390	225	2002	342	2054	394	2114	518.5	1892.5	285
400 x 600 x 225	450	660	225	402	612	454	664	578.5	788.5	345	555
600 x 600 x 225	650	660	225	602	612	654	664	778.5	788.5	545	555
800 x 600 x 225	850	660	225	802	612	854	664	978.5	788.5	745	555
1000 x 600 x 225	1050	660	225	1002	612	1054	664	1178.5	788.5	945	555
1200 x 600 x 225	1250	660	225	1202	612	1254	664	1378.5	788.5	1145	555
1400 x 600 x 225	1450	660	225	1402	612	1454	664	1514	788.5	1292.5	555
1600 x 600 x 225	1650	660	225	1602	612	1654	664	1714	788.5	1492.5	555
1800 x 600 x 225	1850	660	225	1802	612	1854	664	1914	788.5	1692.5	555
2000 x 600 x 225	2050	660	225	2002	612	2054	664	2114	788.5	1892.5	555
400 x 800 x 225	450	875	225	402	827	454	879	578.5	1003.5	345	770
600 x 800 x 225	650	875	225	602	827	654	879	778.5	1003.5	545	770
800 x 800 x 225	850	875	225	802	827	854	879	978.5	1003.5	745	770
1000 x 800 x 225	1050	875	225	1002	827	1054	879	1178.5	1003.5	945	770
1200 x 800 x 225	1250	875	225	1202	827	1254	879	1378.5	1003.5	1145	770
1400 x 800 x 225	1450	875	225	1402	827	1454	879	1514	1003.5	1292.5	770
1600 x 800 x 225	1650	875	225	1602	827	1654	879	1714	1003.5	1492.5	770
1800 x 800 x 225	1850	875	225	1802	827	1854	879	1914	1003.5	1692.5	770
2000 x 800 x 225	2050	875	225	2002	827	2054	879	2114	1003.5	1892.5	770

Quick product references

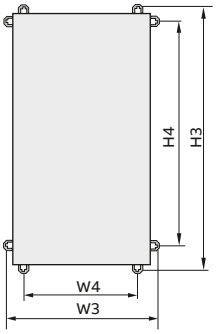
Overall dimensions

TwinLine S 43

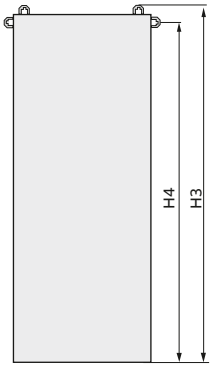
Front view
Wall-mounting and floor-standing cabinet
External/internal dimensions



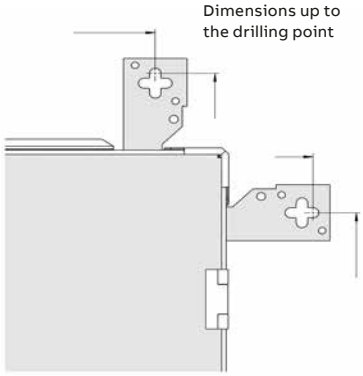
Front view
Wall-mounting cabinet
Wall fastening dimensions



Front view
Floor-standing cabinet
Wall fastening dimensions



Front view
External fastening
Detail



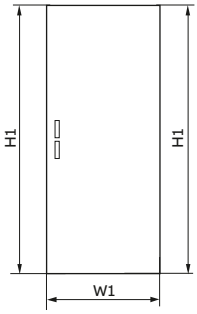
Cabinet types H x W x D	External dimensions in mm			Internal dimensions in mm		External dimensions with embossing in mm		Wall fastening dimensions in mm			
	H1	W1	D1	H2	W2	H	W	H3	W3	H4	W4
400 x 300 x 275	450	390	275	402	342	454	394	578.5	518.5	345	285
600 x 300 x 275	650	390	275	602	342	654	394	778.5	518.5	545	285
800 x 300 x 275	850	390	275	802	342	854	394	978.5	518.5	745	285
1000 x 300 x 275	1050	390	275	1002	342	1054	394	1178.5	518.5	945	285
1200 x 300 x 275	1250	390	275	1202	342	1254	394	1378.5	518.5	1145	285
1400 x 300 x 275	1450	390	275	1402	342	1454	394	1514	518.5	1292.5	285
1600 x 300 x 275	1650	390	275	1602	342	1654	394	1714	518.5	1492.5	285
1800 x 300 x 275	1850	390	275	1802	342	1854	394	1914	518.5	1692.5	285
2000 x 300 x 275	2050	390	275	2002	342	2054	394	2114	518.5	1892.5	285
400 x 600 x 275	450	660	275	402	612	454	664	578.5	788.5	345	555
600 x 600 x 275	650	660	275	602	612	654	664	778.5	788.5	545	555
800 x 600 x 275	850	660	275	802	612	854	664	978.5	788.5	745	555
1000 x 600 x 275	1050	660	275	1002	612	1054	664	1178.5	788.5	945	555
1200 x 600 x 275	1250	660	275	1202	612	1254	664	1378.5	788.5	1145	555
1400 x 600 x 275	1450	660	275	1402	612	1454	664	1514	788.5	1292.5	555
1600 x 600 x 275	1650	660	275	1602	612	1654	664	1714	788.5	1492.5	555
1800 x 600 x 275	1850	660	275	1802	612	1854	664	1914	788.5	1692.5	555
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600 x 800 x 275	650	875	275	602	827	654	879	778.5	1003.5	545	770
800 x 800 x 275	850	875	275	802	827	854	879	978.5	1003.5	745	770
1000 x 800 x 275	1050	875	275	1002	827	1054	879	1178.5	1003.5	945	770
1200 x 800 x 275	1250	875	275	1202	827	1254	879	1378.5	1003.5	1145	770
1400 x 800 x 275	1450	875	275	1402	827	1454	879	1514	1003.5	1292.5	770
1600 x 800 x 275	1650	875	275	1602	827	1654	879	1714	1003.5	1492.5	770
1800 x 800 x 275	1850	875	275	1802	827	1854	879	1914	1003.5	1692.5	770
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Quick product references

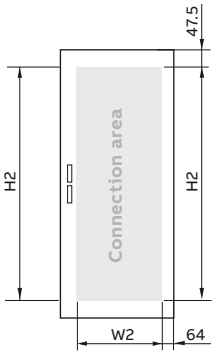
Overall dimensions

TwinLine S 43

External dimensions



Dimensions of usable connection area



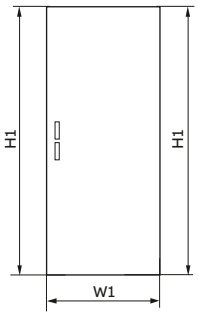
Sheet steel doors	External dimensions Height x width in mm		Internal dimensions Height x width in mm		Weight	max. installation weight
Type	H1	W1	H2	W2	in kg	in kg
ESAS0304	443	379	348	213	4.75	5
ESAS0306	643	379	548	213	6.62	5
ESAS0308	843	379	748	213	7.81	5
ESAS0310	1043	379	948	213	9.72	5
ESAS0312	1243	379	1148	213	11.49	5
ESAS0314	1443	379	1348	213	13.50	5
ESAS0316	1643	379	1548	213	15.05	5
ESAS0318	1843	379	1748	213	16.58	5
ESAS0320	2043	379	1948	213	18.14	5
ESAS0604	443	649	348	483	6.95	5
ESAS0606	643	649	548	483	9.46	5
ESAS0608	843	649	748	483	11.64	5
ESAS0610	1043	649	948	483	13.83	5
ESAS0612	1243	649	1148	483	16.24	5
ESAS0614	1443	649	1348	483	18.88	5
ESAS0616	1643	649	1548	483	21.07	5
ESAS0618	1843	649	1748	483	23.25	5
ESAS0620	2043	649	1948	483	25.43	5
ESAS0804	443	864	348	698	8.70	7.5
ESAS0806	643	864	548	698	11.72	7.5
ESAS0808	843	864	748	698	14.41	7.5
ESAS0810	1043	864	948	698	17.10	7.5
ESAS0810	1243	864	1148	698	20.02	7.5
ESAS0814	1443	864	1348	698	23.17	7.5
ESAS0816	1643	864	1548	698	25.86	7.5
ESAS0818	1843	864	1748	698	28.54	7.5
ESAS0820	2043	864	1948	698	31.23	7.5

Quick product references

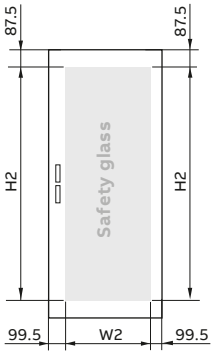
Overall dimensions

TwinLine S 43

External dimensions



Dimensions of viewing area



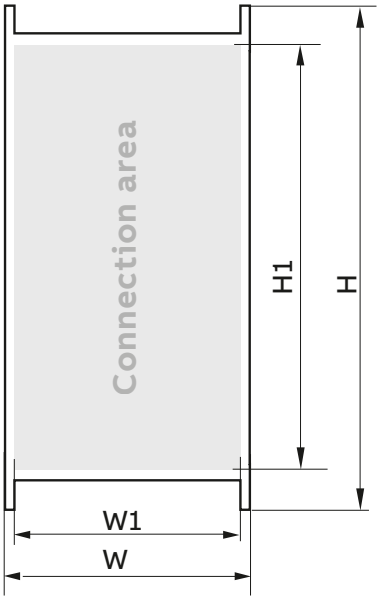
Transparent doors	External dimensions Height x width in mm		Viewing area Height x width in mm		Weight
Type	**H1**	**W1**	**H2**	**W2**	**in kg**
ESAT0606	643	649	468	450	9.63
ESAT0608	843	649	668	450	11.67
ESAT0610	1043	649	868	450	13.7
ESAT0612	1243	649	1068	450	15.96
ESAT0614	1443	649	1268	450	18.36
ESAT0616	1643	649	1468	450	20.4
ESAT0618	1843	649	1668	450	22.43
ESAT0620	2043	649	1868	450	24.46
ESAT0806	643	864	468	665	11.85
ESAT0808	843	864	668	665	14.3
ESAT0810	1043	864	868	665	16.74
ESAT0812	1243	864	1068	665	19.4
ESAT0814	1443	864	1268	665	22.23
ESAT0816	1643	864	1468	665	24.67
ESAT0818	1843	864	1668	665	27.12
ESAT0820	2043	864	1868	665	29.56
ESAT2606	643	864	468	450	11.66
ESAT2608	843	864	668	450	14.2
ESAT2610	1043	864	868	450	16.47
ESAT2612	1243	864	1068	450	19.5
ESAT2614	1443	864	1268	450	22.42
ESAT2616	1643	864	1468	450	24.96
ESAT2618	1843	864	1668	450	27.5
ESAT2620	2043	864	1868	450	30

Quick product references

Overall dimensions

TwinLine S 43 mounting plate

External dimensions / Usable connection area
Mounting plate



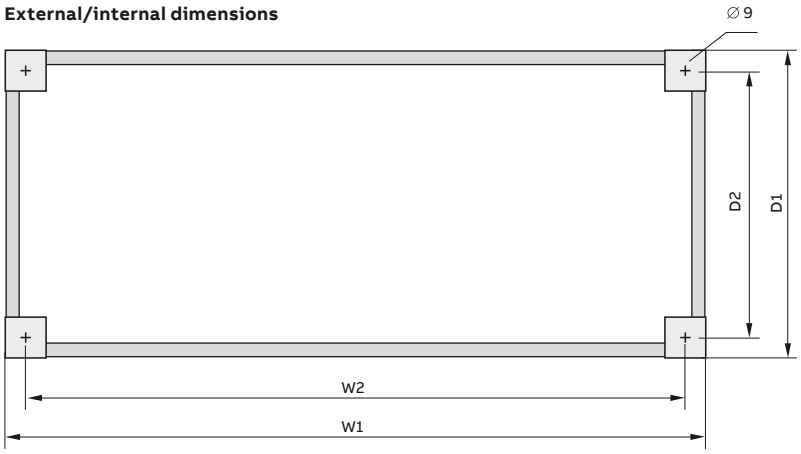
	External dimensions Width x depth in mm		Internal dimensions Width x depth in mm		Weight
Type	H	W	H1	W1	in kg
TZM204	600	496	522	410	3.51
TZM304	600	746	522	660	8.07
TZM208	1200	496	1122	410	11.82
TZM308	1200	746	1122	660	16.45
RM28	1800	496	1722	410	17.8
RM38	1800	746	1722	660	21

Quick product references

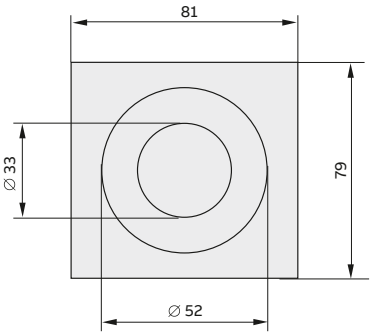
Overall dimensions

TwinLine S 43 plinth

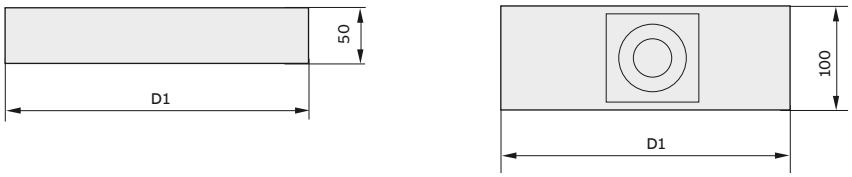
External/internal dimensions



Detail view for side knockout



View side knockout TwinLine-G and -L

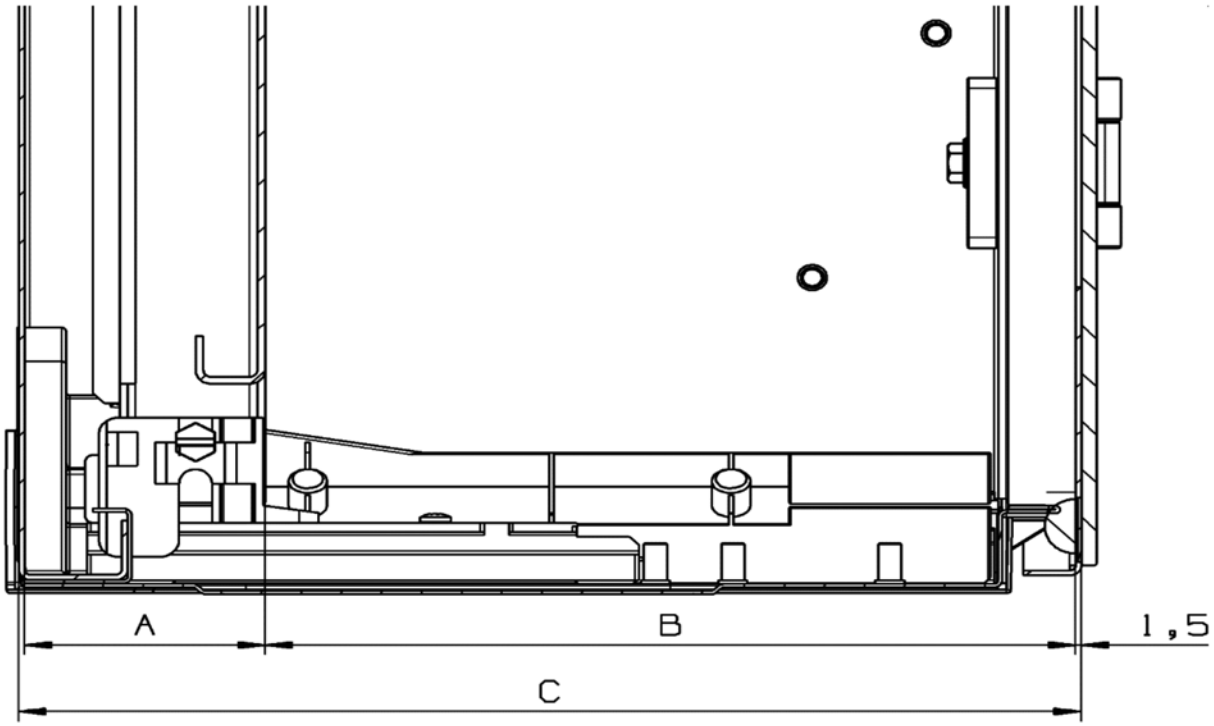


	External dimensions Width x depth in mm		Internal dimensions Width x depth in mm		Weight
Type	**W1**	**D1**	**W2**	**D2**	**in kg**
Plinth height 50 mm					
ESAL0305	390	253.5	360	223.5	1.57
ESAL0605	660	253.5	630	223.5	2.10
ESAL0805	875	253.5	845	223.5	2.53
ESAG0305	390	203.5	360	173.5	1.44
ESAG0605	660	203.5	630	173.5	1.98
ESAG0805	875	203.5	845	173.5	2.41
Plinth height 100 mm					
ESAL0310	390	253.5	360	223.5	2.59
ESAL0610	660	253.5	630	223.5	3.45
ESAL0810	875	253.5	845	223.5	4.13
ESAG0310	390	203.5	360	173.5	2.41
ESAG0610	660	203.5	630	173.5	3.27
ESAG0810	875	203.5	845	173.5	3.95

Quick product references

Overall dimensions

TwinLine S 43 Side view assembly with mounting plate

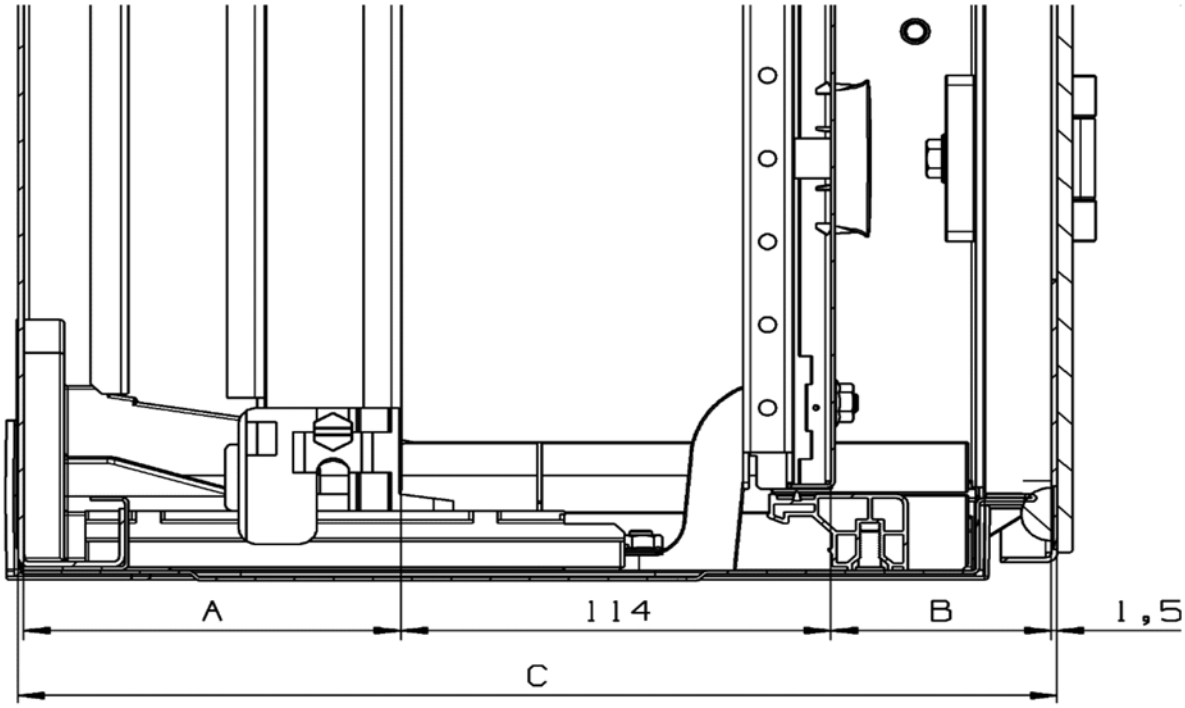


		A in mm for installation position					
Cabinet series	**Depth (C) in mm**	**Pos 3**	**Pos 2**	**Pos 1**	**Pos 0**	**Pos -1**	**Pos -2**
TwinLine G	225	63	75.5	88	100.5	113	125.5
TwinLine L	275	63	75.5	88	100.5	113	125.5
Cabinet series	**Depth (C) in mm**	**B in mm for installation position**					
TwinLine G	225	159	146.5	134	121.5	109	96.5
TwinLine L	275	209	196.5	184	171.5	159	146.5

Quick product references

Overall dimensions

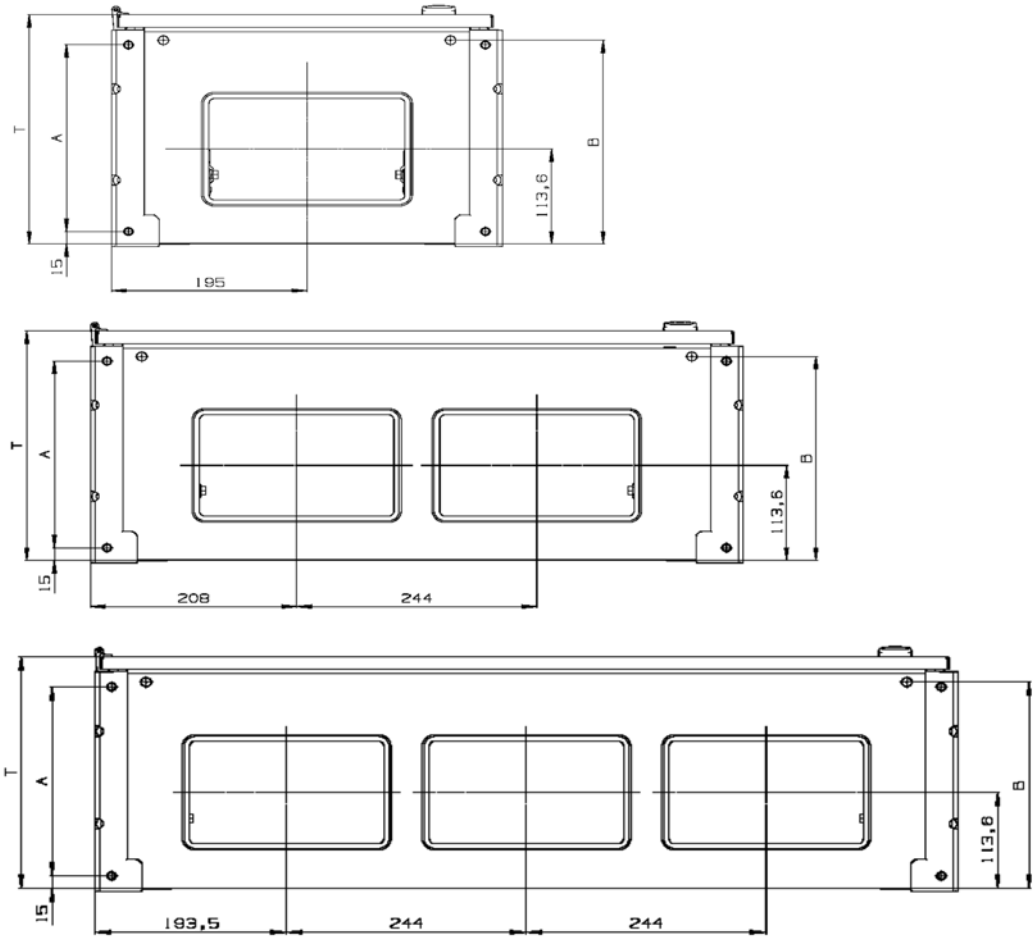
TwinLine S 43 Side view with FlexiLIne for 225 mm und 275 mm depth



	Depth (C) in mm	A in mm	B in mm
TwinLine G	225	62	46
TwinLine L	275	100	58

Quick product references

Overall dimensions



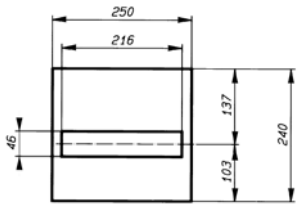
Depth in mm	A in mm	B in mm
225	173.5	170
275	223.5	244

Quick product references

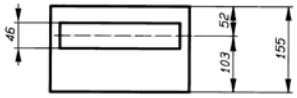
Overall dimensions

Modular consumer units AI10N / AI11N

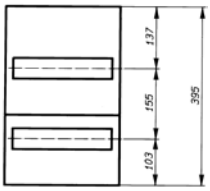
Basic enclosure



Modular enclosure



AI10N + AI11N

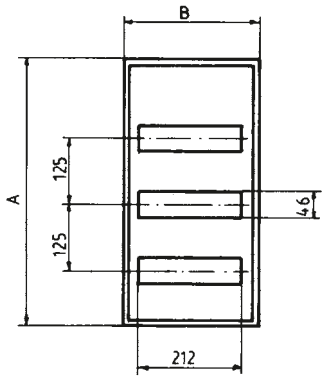


2-row combination

Quick product references

Overall dimensions

Hood-type consumer units A300

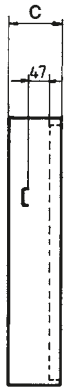


Allowed power loss hood-type consumer units A300

DIN 43871 with over temperature △T*

Type	Power loss (W)		
	△T 20 K	△T 25 K	△T 30 K
A31...	12.5	16.5	21.0
A32...	15.0	20.0	25.0
A33...	17.0	22.0	28.0
A34...	20.5	27.0	34.0

*T is the temperature difference between upper temperature rise limit, mounted devices and ambient.



Type	A	B	C
A31...	245	295	110
A32...	385	295	110
A33...	510	295	110
A34...	635	295	110

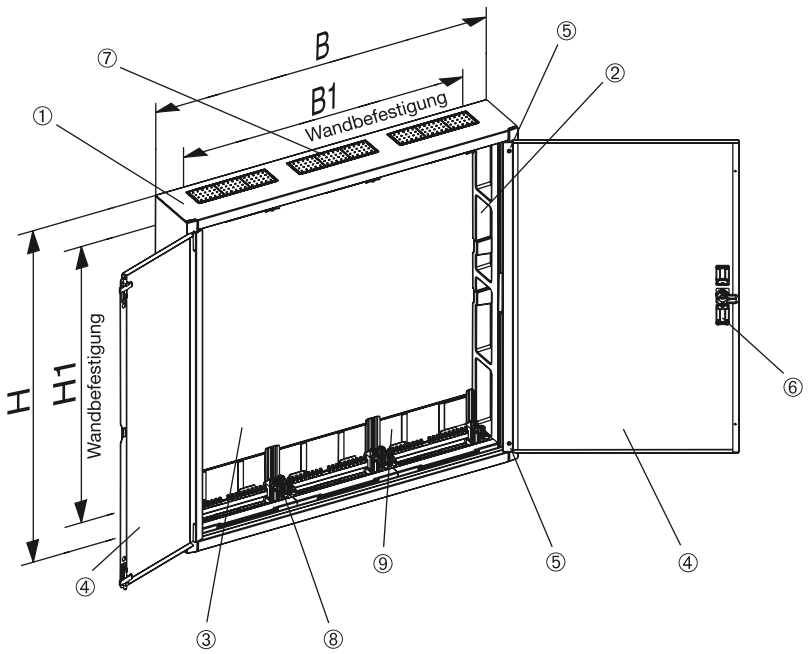
Quick product references

Overall dimensions

Compact distribution boards

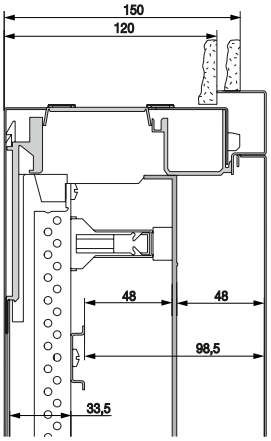
Type	H	W	H1	W1
AT22E, AL22	374	574	235	417
AT31, AL31	524	324	385	167
AT32, AT32TE, AT32R2, AT32TR2, AL32	524	574	385	417
AT41, AT41TE, AT41R3, AT41TR3, AL41	674	324	535	167
AT42, AT42TE, AT42M, AT42/2, AT42R3, AT42TR3,AL42	674	574	535	417
AT43, AT43R3, AT43TR3, AL43	674	824	535	667
AT51, AT51TE, AT51R4, AT51TR4, AL51	824	324	685	167
AT52, AT52TE, AT52K, AT52/2, AT52R4, AT52TR4, AL52	824	574	685	417
AT53, AT53M,AT53K, AT53R4, AT53TR4, AL53	824	824	685	667
AT54K, AK54E, AT54R4, AL54	824	1074	685	917
AT61, AT61TE, AT61R5, AT61TR5, AL61	974	324	835	167
AT62, AT62TE, AT62K, AT62R5, AT62TR5, AL62	974	574	835	417
AT63E, AT63K, AT63R5, AT63TR5, AL63	974	824	835	667
AT64K, AL64	974	1074	835	917
AT72, AT72K, AT72R6, AT72TR6, AL72	1124	574	985	417
AT73K, AT73R6, AT73TR6, AL73	1124	824	985	667

Dimensions in mm

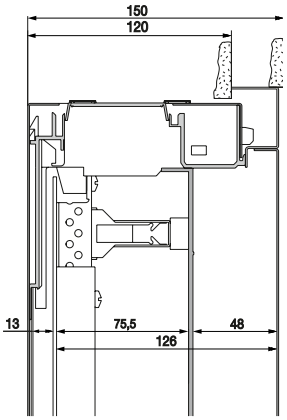


Quick product references

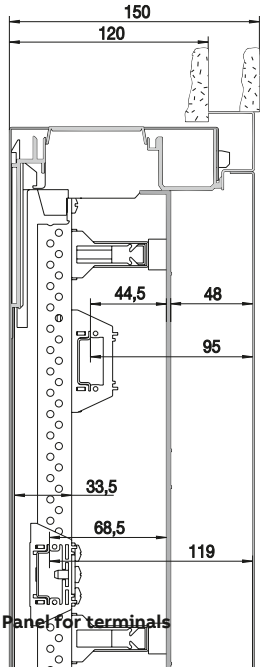
Overall dimensions



Distribution board panel



Mounting plate



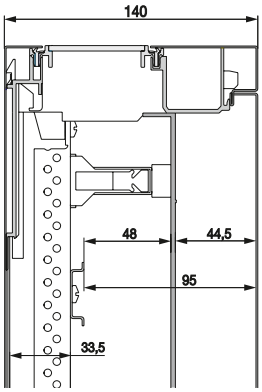
Panel for terminals

Flush-mounting with door. U		
Type	**Weight in kg**	**Power loss in Watts $\triangle t_{1.0}$ 20K**
U32	13.50	33.10
U32R2	13.00	33.10
U32TE	12.50	33.10
U32TR2	11.00	33.10
U41	10.50	24.30
U41R3	10.50	24.30
U41TE	9.00	24.30
U41TR3	9.50	24.30
U42	15.50	40.10
U42/2	16.50	40.10
U42D	16.50	40.10
U42FPT	17.00	40.10
U42M	18.50	40.10
U42R3	16.00	40.10
U42TE	14.00	40.10
U42TR3	14.00	40.10
U43	22.50	57.40
U43R3	23.00	57.40
U43TR3	19.50	57.40
U51	12.50	28.40
U51R4	12.00	28.40
U51TE	12.00	28.40
U51TR4	10.50	28.40
U52	18.50	46.30
U52/2	19.00	46.30
U52K	18.50	46.30
U52R4	18.00	46.30
U52TE	16.00	46.30
U52TR4	16.00	46.30
U53	26.50	65.60
U53K	26.00	65.60
U53M	29.00	65.60
U53R4	26.50	65.60
U53TR4	22.00	65.60
U54E	33.00	61.80
U54K	32.50	61.80
U54R4	33.50	61.80
U61	14.50	32.90
U61R5	14.50	32.90
U61TE	12.50	32.90
U61TR5	12.50	32.90
U62	22.00	53.10
U62K	22.00	53.10
U62R5	22.00	53.10
U62TE	19.00	53.10
U62TR5	19.00	53.10
U63E	31.00	53.30
U63K	30.50	53.30
U63R5	31.50	53.30
U63TR5	26.00	53.30
U64K	38.00	68.30
U72	25.00	59.80
U72K	25.00	59.80
U72R6	26.00	59.80
U72TR6	21.50	59.80
U73K	35.00	62.30
U73R6	35.50	62.30
U73TR6	28.50	62.30

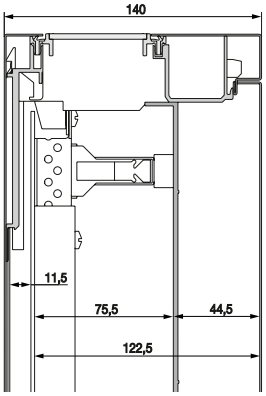
> Dimensions in mm

Quick product references

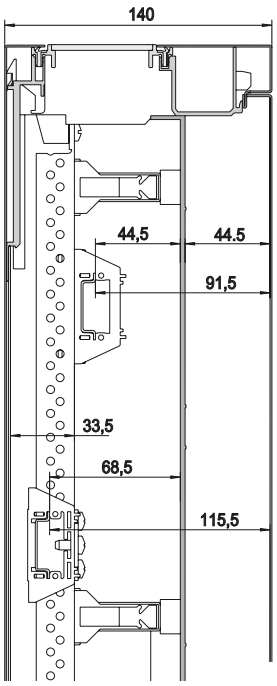
Overall dimensions



Distribution board panel



Mounting plate



Panel for terminals

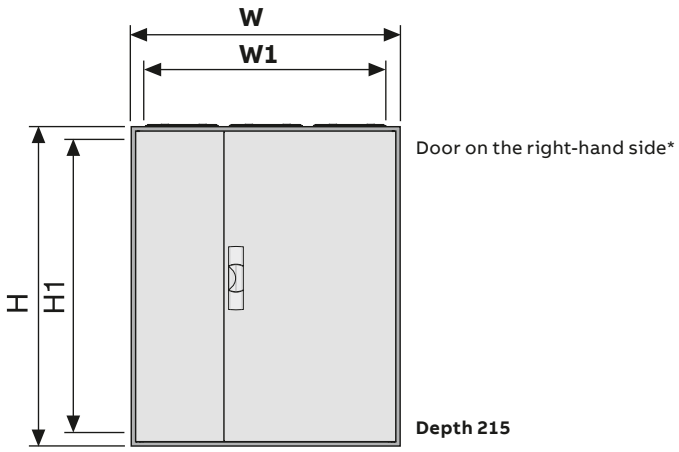
Wall-mounting with door. AT		
Type	**Weight in kg**	**Power loss in Watts $\triangle t_{1.0}$ 20K**
AT22E	9.70	36.30
AT31	7.50	27.30
AT32	12.50	45.30
AT32R2	12.00	45.30
AT32TE	12.00	45.30
AT32TR2	11.50	45.30
AT41	9.50	33.30
AT41R3	10.00	33.30
AT41TE	9.00	33.30
AT41TR3	9.00	33.30
AT42	15.00	53.90
AT42/2	15.50	53.90
AT42M	17.50	53.90
AT42R3	15.00	53.90
AT42TE	13.00	53.90
AT42TR3	13.50	53.90
AT43	21.50	76.30
AT43R3	21.50	76.30
AT43TR3	18.00	76.30
AT51	11.50	39.20
AT51R4	11.50	39.20
AT51TE	11.50	39.20
AT51TR4	11.00	39.20
AT52	17.00	62.60
AT52/2	18.00	62.60
AT52K	17.50	62.60
AT52R4	18.00	62.60
AT52TE	18.00	62.60
AT52TR4	16.00	62.60
AT53	25.00	59.50
AT53K	25.00	59.50
AT53M	28.00	59.50
AT53R4	25.50	59.50
AT53TR4	21.50	59.50
AT54E	32.00	85.10
AT54K	31.00	85.10
AT54R4	32.50	85.10
AT54TR4	26.50	85.10
AT61	13.50	45.40
AT61R5	13.50	45.40
AT61TE	11.50	45.40
AT61TR5	12.00	45.40
AT62	21.00	49.60
AT62K	20.50	49.60
AT62R5	20.00	49.60
AT62TE	20.00	49.60
AT62TR5	20.00	49.60
AT63E	29.50	70.00
AT63K	29.00	70.00
AT63R5	29.00	70.00
AT63TR5	24.00	70.00
AT64K	36.00	100.10
AT72	23.50	57.30
AT72K	23.50	57.30
AT72R6	23.50	57.30
AT72TR6	20.00	57.30
AT73K	33.50	83.60
AT73R6	34.00	83.60
AT73TR6	30.50	83.60

> Dimensions in mm

Quick product references

Overall dimensions

A wall-mounting cabinets IP43



					Ext. dimensions		Int. dimensions		Door on the left-hand side*	Door on the right-hand side*	Weight	Power loss
Type	**OH**	**PW**	**SU**	**GU**	**H**	**W**	**H1**	**W1**	**H x W**	**H x W**	**in kg**	**in watts $\triangle t_{1,0}$ 20K**
1/00A	00	1	36	3	500	300	452	252		471.4 x 272	6.20	28.80
2/00A		2	72		500	550	452	502		471.4 x 522	8.40	47.40
3/00A		3	108		500	800	452	752	471.4 x 260	471.4 x 510	12.20	67.10
4/00A		4	144		500	1050	452	1002	471.4 x 510	471.4 x 510	15.80	66.20
5/00A		5	180		500	1300	452	1252	471.4 x 510	471.4 x 760	19.60	83.60
1/0A	0	1	48	4	650	300	602	252		621.4 x 272	7.80	35.20
2/0A		2	96		650	550	602	502		621.4 x 522	11.40	56.20
3/0A		3	144		650	800	602	752	621.4 x 260	621.4 x 510	15.60	59.80
4/0A		4	192		650	1050	602	1002	621.4 x 510	621.4 x 510	16.80	80.90
5/0A		5	240		650	1300	602	1252	621.4 x 510	621.4 x 760	24.00	105.60
1/1A	1	1	60	5	800	300	752	252		771.4 x 272	9.80	41.60
2/1A		2	120		800	550	752	502		771.4 x 522	13.40	65.30
3/1A		3	180		800	800	752	752	771.4 x 260	771.4 x 510	18.00	69.70
4/1A		4	240		800	1050	752	1002	771.4 x 510	771.4 x 510	23.80	96.80
5/1A		5	300		800	1300	752	1252	771.4 x 510	771.4 x 760	28.00	128.40
1/2A	2	1	72	6	950	300	902	252		921.4 x 272	10.80	48.10
2/2A		2	144		950	550	902	502		921.4 x 522	15.60	51.90
3/2A		3	216		950	800	902	752	921.4 x 260	921.4 x 510	21.00	79.20
4/2A		4	288		950	1050	902	1002	921.4 x 510	921.4 x 510	26.80	112.60
5/2A		5	360		950	1300	902	1252	921.4 x 510	921.4 x 760	31.20	150.90
1/3A	3	1	84	7	1100	300	1052	252		1071.4 x 272	12.00	54.50
2/3A		2	168		1100	550	1052	502		1071.4 x 522	17.60	60.70
3/3A		3	252		1100	800	1052	752	1071.4 x 260	1071.4 x 510	23.60	87.50
4/3A		4	336		1100	1050	1052	1002	1071.4 x 510	1071.4 x 510	30.00	131.30
5/3A		5	420		1100	1300	1052	1252	1071.4 x 510	1071.4 x 760	35.20	171.20
1/4A	4	1	96	8	1250	300	1202	252		1221.4 x 272	14.00	60.80
2/4A		2	192		1250	550	1202	502		1221.4 x 522	19.20	68.30
3/4A		3	288		1250	800	1202	752	1221.4 x 260	1221.4 x 510	26.00	101.50
4/4A		4	384		1250	1050	1202	1002	1221.4 x 510	1221.4 x 510	32.40	147.40
5/4A		5	480		1250	1300	1202	1252	1221.4 x 510	1221.4 x 760	40.20	190.50
1/5A	5	1	108	9	1400	300	1352	252		1371.4 x 272	15.00	67.20
2/5A		2	216		1400	550	1352	502		1371.4 x 522	22.40	77.80
3/5A		3	324		1400	800	1352	752	1371.4 x 260	1371.4 x 510	29.20	118.10
4/5A		4	432		1400	1050	1352	1002	1371.4 x 510	1371.4 x 510	35.20	156.00
5/5A		5	540		1400	1300	1352	1252	1371.4 x 510	1371.4 x 760	44.00	205.60

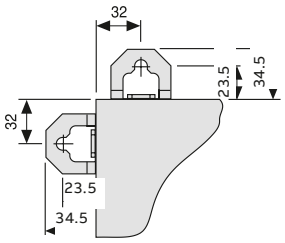
> Dimensions in mm

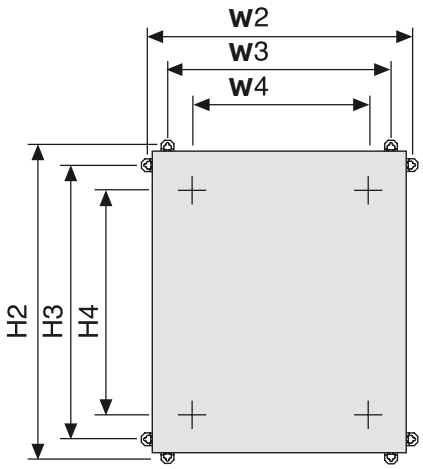
* Double-wing doors on cabinets with three or more panel widths

Quick product references

Overall dimensions

A wall-mounting cabinets IP43





					Ext. fastening				Int. fastenning		Weight	Power loss
Type	**OH**	**PW**	**SU**	**GU**	**H2**	**H3**	**W2**	**W3**	**H4**	**W4**	**in kg**	**in watts $\triangle t_{1.0}$ 20K**
1/00A	00	1	36	3	547	436	347	236	402	170	6.20	28.80
2/00A		2	72		547	436	597	486	402	420	8.40	47.40
3/00A		3	108		547	436	847	736	402	670	12.20	67.10
4/00A		4	144		547	436	1097	986	402	920	15.80	66.20
5/00A		5	180		547	436	1347	1236	402	1170	19.60	83.60
1/0A	0	1	48	4	697	586	347	236	552	170	7.80	35.20
2/0A		2	96		697	586	597	486	552	420	11.40	56.20
3/0A		3	144		697	586	847	736	552	670	15.60	59.80
4/0A		4	192		697	586	1097	986	552	920	16.80	80.90
5/0A		5	240		697	586	1347	1236	552	1170	24.00	105.60
1/1A	1	1	60	5	847	736	347	236	702	170	9.80	41.60
2/1A		2	120		847	736	597	486	702	420	13.40	65.30
3/1A		3	180		847	736	847	736	702	670	18.00	69.70
4/1A		4	240		847	736	1097	986	702	920	23.80	96.80
5/1A		5	300		847	736	1347	1236	702	1170	28.00	128.40
1/2A	2	1	72	6	997	886	347	236	852	170	10.80	48.10
2/2A		2	144		997	886	597	486	852	420	15.60	51.90
3/2A		3	216		997	886	847	736	852	670	21.00	79.20
4/2A		4	288		997	886	1097	986	852	920	26.80	112.60
5/2A		5	360		997	886	1347	1236	852	1170	31.20	150.90
1/3A	3	1	84	7	1147	1036	347	236	1002	170	12.00	54.50
2/3A		2	168		1147	1036	597	486	1002	420	17.60	60.70
3/3A		3	252		1147	1036	847	736	1002	670	23.60	87.50
4/3A		4	336		1147	1036	1097	986	1002	920	30.00	131.30
5/3A		5	420		1147	1036	1347	1236	1002	1170	35.20	171.20
1/4A	4	1	96	8	1297	1186	347	236	1152	170	14.00	60.80
2/4A		2	192		1297	1186	597	486	1152	420	19.20	68.30
3/4A		3	288		1297	1186	847	736	1152	670	26.00	101.50
4/4A		4	384		1297	1186	1097	986	1152	920	32.40	147.40
5/4A		5	480		1297	1186	1347	1236	1152	1170	40.20	190.50
1/5A	5	1	108	9	1447	1336	347	236	1302	170	15.00	67.20
2/5A		2	216		1447	1336	597	486	1302	420	22.40	77.80
3/5A		3	324		1447	1336	847	736	1302	670	29.20	118.10
4/5A		4	432		1447	1336	1097	986	1302	920	35.20	156.00
5/5A		5	540		1447	1336	1347	1236	1302	1170	44.00	205.60

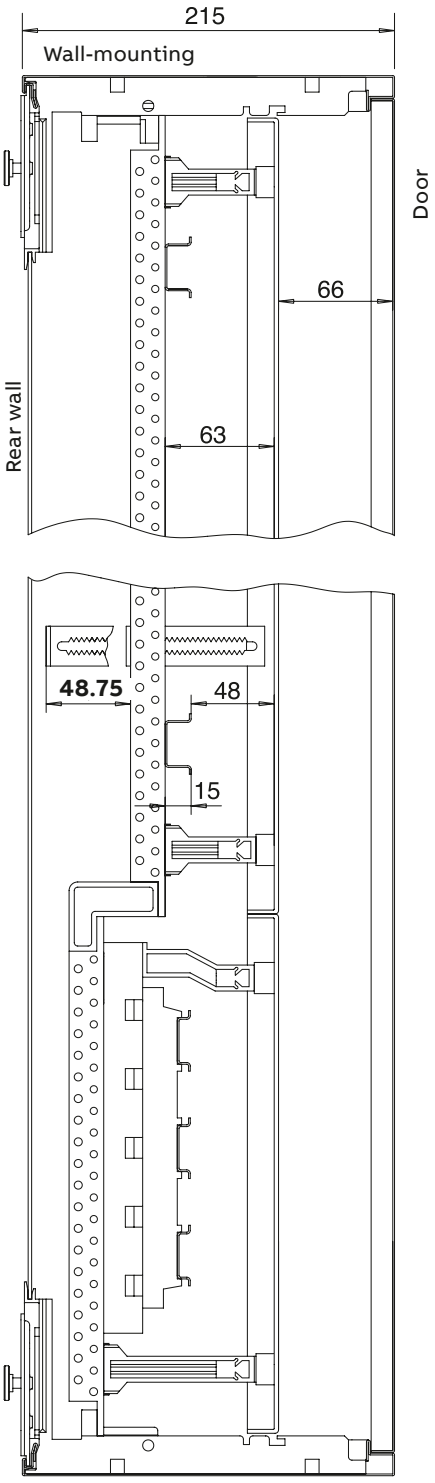
> Dimensions in mm

Quick product references

Overall dimensions

A wall-mounting cabinets IP43 Interior configuration

Cross section with distribution boards panels and combination sets

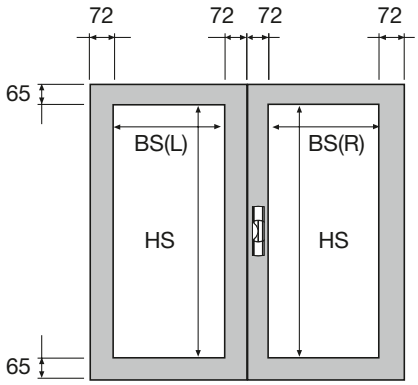


> Dimensions in mm

Quick product references

Overall dimensions

A wall-mounting cabinets IP43 transparent doors



	Cabinet				Door on the left	Door on the right	Window on the left	Window on the right
Type	**A Cabinet**	**OH**	**PW**	**GU**	**H x W**	**H x W**	**HW x WW(L)**	**HW x WW(R)**
TTS100	1/00A	00	1	3	-	471.4 x 272	-	341.4 x 128
TTS200	2/00A		2		-	471.4 x 522	-	341.4 x 378
TTS300	3/00A		3		471.4 x 260	471.4 x 510	341.4 x 116	341.4 x 366
TTS400	4/00A		4		471.4 x 510	471.4 x 510	341.4 x 366	341.4 x 366
TTS500	5/00A		5		471.4 x 510	471.4 x 760	341.4 x 366	341.4 x 616
TTS10	1/0A	0	1	4	-	621.4 x 272	-	491.4 x 128
TTS20	2/0A		2		-	621.4 x 522	-	491.4 x 378
TTS30	3/0A		3		621.4 x 260	621.4 x 510	491.4 x 116	491.4 x 366
TTS40	4/0A		4		621.4 x 510	621.4 x 510	491.4 x 366	491.4 x 366
TTS50	5/0A		5		621.4 x 510	621.4 x 760	491.4 x 366	491.4 x 616
TTS11	1/1A	1	1	5	-	771.4 x 272	-	641.4 x 128
TTS21	2/1A		2		-	771.4 x 522	-	641.4 x 378
TTS31	3/1A		3		771.4 x 260	771.4 x 510	641.4 x 116	641.4 x 366
TTS41	4/1A		4		771.4 x 510	771.4 x 510	641.4 x 366	641.4 x 366
TTS51	5/1A		5		771.4 x 510	771.4 x 760	641.4 x 366	641.4 x 616
TTS12	1/2A	2	1	6	-	921.4 x 272	-	791.4 x 128
TTS22	2/2A		2		-	921.4 x 522	-	791.4 x 378
TTS32	3/2A		3		921.4 x 260	921.4 x 510	791.4 x 116	791.4 x 366
TTS42	4/2A		4		921.4 x 510	921.4 x 510	791.4 x 366	791.4 x 366
TTS52	5/2A		5		921.4 x 510	921.4 x 760	791.4 x 366	791.4 x 616
TTS13	1/3A	3	1	7	-	1071.4 x 272	-	941.4 x 128
TTS23	2/3A		2		-	1071.4 x 522	-	941.4 x 378
TTS33	3/3A		3		1071.4 x 260	1071.4 x 510	941.4 x 116	941.4 x 366
TTS43	4/3A		4		1071.4 x 510	1071.4 x 510	941.4 x 366	941.4 x 366
TTS53	5/3A		5		1071.4 x 510	1071.4 x 760	941.4 x 366	941.4 x 616
TTS14	1/4A	4	1	8	-	1221.4 x 272	-	1091.4 x 128
TTS24	2/4A		2		-	1221.4 x 522	-	1091.4 x 378
TTS34	3/4A		3		1221.4 x 260	1221.4 x 510	1091.4 x 116	1091.4 x 366
TTS44	4/4A		4		1221.4 x 510	1221.4 x 510	1091.4 x 366	1091.4 x 366
TTS54	5/4A		5		1221.4 x 510	1221.4 x 760	1091.4 x 366	1091.4 x 616
TTS15	1/5A	5	1	9	-	1371.4 x 272	-	1241.4 x 128
TTS25	2/5A		2		-	1371.4 x 522	-	1241.4 x 378
TTS35	3/5A		3		1371.4 x 260	1371.4 x 510	1241.4 x 116	1241.4 x 366
TTS45	4/5A		4		1371.4 x 510	1371.4 x 510	1241.4 x 366	1241.4 x 366
TTS55	5/5A		5		1371.4 x 510	1371.4 x 760	1241.4 x 366	1241.4 x 616

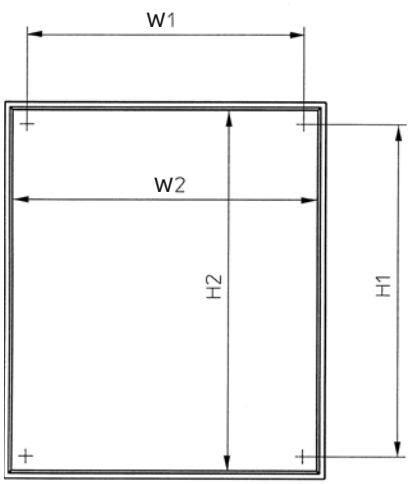
> Dimensions in mm

*Double-wing doors on cabinets with three or more panel widths

Quick product references

Overall dimensions

B wall-mounting cabinets IP43



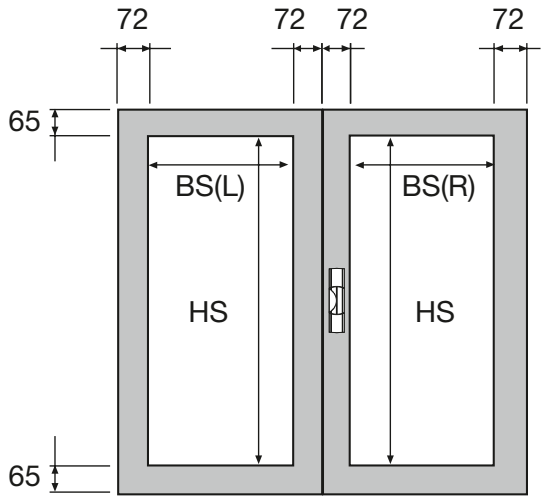
					Ext. dimensions			Int. dimensions		Int. fastening dimensions		Weight	Power loss
Type	OH	PW	SU	GU	H	W	D	H2	W2	H1	W1	in kg	in watts $\triangle t_{1,0}$ 20K
1/00B	00	1	36	3	500	300	215	452	252	388	188	7,40	28,80
2/00B		2	72		500	550	215	452	502	388	438	9,60	47,40
3/00B		3	108		500	800	215	452	752	388	688	13,40	67,10
1/0B	0	1	48	4	650	300	215	602	252	538	188	9,00	35,20
2/0B		2	96		650	550	215	602	502	538	438	12,60	56,20
3/0B		3	144		650	800	215	602	752	538	688	16,80	59,80
4/0B		4	192		650	1050	215	602	1002	538	938	18,00	80,90
5/0B		5	240		650	1300	215	602	1252	538	1188	25,20	105,60
1/1B	1	1	60	5	800	300	215	752	252	688	188	10,80	41,60
2/1B		2	120		800	550	215	752	502	688	438	14,60	65,30
3/1B		3	180		800	800	215	752	752	688	688	19,20	69,70
4/1B		4	240		800	1050	215	752	1002	688	938	24,80	96,80
5/1B		5	300		800	1300	215	752	1252	688	1188	29,20	128,40
1/2B	2	1	72	6	950	300	215	902	252	838	188	12,00	48,10
2/2B		2	144		950	550	215	902	502	838	438	16,80	51,90
3/2B		3	216		950	800	215	902	752	838	688	22,20	79,20
4/2B		4	288		950	1050	215	902	1002	838	938	28,00	112,60
5/2B		5	360		950	1300	215	902	1252	838	1188	32,40	150,90
1/3B	3	1	84	7	1100	300	215	1052	252	988	188	13,20	54,50
2/3B		2	168		1100	550	215	1052	502	988	438	18,80	60,70
3/3B		3	252		1100	800	215	1052	752	988	688	24,80	87,50
4/3B		4	336		1100	1050	215	1052	1002	988	938	31,20	131,30
5/3B		5	420		1100	1300	215	1052	1252	988	1188	36,40	171,20
1/4B	4	1	96	8	1250	300	215	1202	252	1138	188	15,00	60,80
2/4B		2	192		1250	550	215	1202	502	1138	438	20,40	68,30
3/4B		3	288		1250	800	215	1202	752	1138	688	27,20	101,50
4/4B		4	384		1250	1050	215	1202	1002	1138	938	33,60	147,40
5/4B		5	480		1250	1300	215	1202	1252	1138	1188	41,40	190,50
1/5B	5	1	108	9	1400	300	215	1352	252	1288	188	16,20	67,20
2/5B		2	216		1400	550	215	1352	502	1288	438	23,60	77,80
3/5B		3	324		1400	800	215	1352	752	1288	688	30,40	118,10
4/5B		4	432		1400	1050	215	1352	1002	1288	938	36,40	156,00
5/5B		5	540		1400	1300	215	1352	1252	1288	1188	45,20	205,60

> Dimensions in mm

Quick product references

Overall dimensions

B wall-mounting cabinets IP43



Type	B wall-mounting cabinet	OH	PW	GU	Door on the left-hand side* H x W	Door on the right-hand side* H x W	Window on the left-hand side HW x WW(L)	Window on the right-hand side HW x WW(R)
TTS100	1/00B	00	1	3	-	471.4 x 272	-	341.4 x 128
TTS200	2/00B		2		-	471.4 x 522	-	341.4 x 378
TTS300	3/00B		3		471.4 x 260	471.4 x 510	341.4 x 116	341.4 x 366
TTS400	-		4		471.4 x 510	471.4 x 510	341.4 x 366	341.4 x 366
TTS500	-		5		471.4 x 510	471.4 x 760	341.4 x 366	341.4 x 616
TTS10	1/0B	0	1	4	-	621.4 x 272	-	491.4 x 128
TTS20	2/0B		2		-	621.4 x 522	-	491.4 x 378
TTS30	3/0B		3		621.4 x 260	621.4 x 510	491.4 x 116	491.4 x 366
TTS40	4/0B		4		621.4 x 510	621.4 x 510	491.4 x 366	491.4 x 366
TTS50	5/0B		5		621.4 x 510	621.4 x 760	491.4 x 366	491.4 x 616
TTS11	1/1B	1	1	5	-	771.4 x 272	-	641.4 x 128
TTS21	2/1B		2		-	771.4 x 522	-	641.4 x 378
TTS31	3/1B		3		771.4 x 260	771.4 x 510	641.4 x 116	641.4 x 366
TTS41	4/1B		4		771.4 x 510	771.4 x 510	641.4 x 366	641.4 x 366
TTS51	5/1B		5		771.4 x 510	771.4 x 760	641.4 x 366	641.4 x 616
TTS12	1/2B	2	1	6	-	921.4 x 272	-	791.4 x 128
TTS22	2/2B		2		-	921.4 x 522	-	791.4 x 378
TTS32	3/2B		3		921.4 x 260	921.4 x 510	791.4 x 116	791.4 x 366
TTS42	4/2B		4		921.4 x 510	921.4 x 510	791.4 x 366	791.4 x 366
TTS52	5/2B		5		921.4 x 510	921.4 x 760	791.4 x 366	791.4 x 616
TTS13	1/3B	3	1	7	-	1071.4 x 272	-	941.4 x 128
TTS23	2/3B		2		-	1071.4 x 522	-	941.4 x 378
TTS33	3/3B		3		1071.4 x 260	1071.4 x 510	941.4 x 116	941.4 x 366
TTS43	4/3B		4		1071.4 x 510	1071.4 x 510	941.4 x 366	941.4 x 366
TTS53	5/3B		5		1071.4 x 510	1071.4 x 760	941.4 x 366	941.4 x 616
TTS14	1/4B	4	1	8	-	1221.4 x 272	-	1091.4 x 128
TTS24	2/4B		2		-	1221.4 x 522	-	1091.4 x 378
TTS34	3/4B		3		1221.4 x 260	1221.4 x 510	1091.4 x 116	1091.4 x 366
TTS44	4/4B		4		1221.4 x 510	1221.4 x 510	1091.4 x 366	1091.4 x 366
TTS54	5/4B		5		1221.4 x 510	1221.4 x 760	1091.4 x 366	1091.4 x 616
TTS15	1/5B	5	1	9	-	1371.4 x 272	-	1241.4 x 128
TTS25	2/5B		2		-	1371.4 x 522	-	1241.4 x 378
TTS35	3/5B		3		1371.4 x 260	1371.4 x 510	1241.4 x 116	1241.4 x 366
TTS45	4/5B		4		1371.4 x 510	1371.4 x 510	1241.4 x 366	1241.4 x 366
TTS55	5/5B		5		1371.4 x 510	1371.4 x 760	1241.4 x 366	1241.4 x 616

> Dimensions in mm

*Double-wing doors on cabinets with three or more panel widths

Quick product references

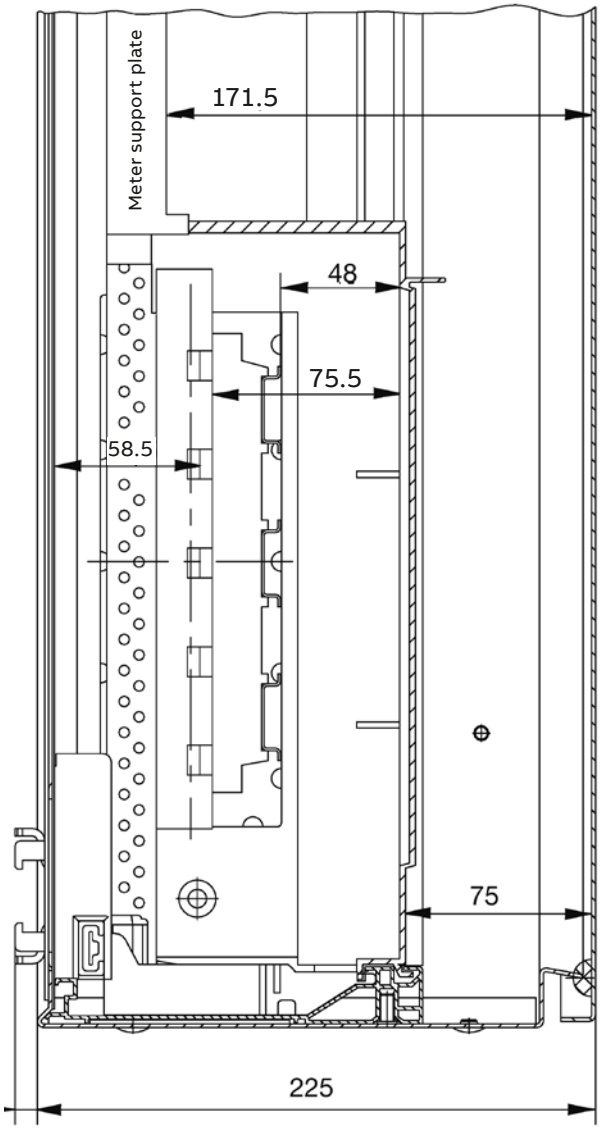
Overall dimensions

H and HS floor-standing cabinets IP43

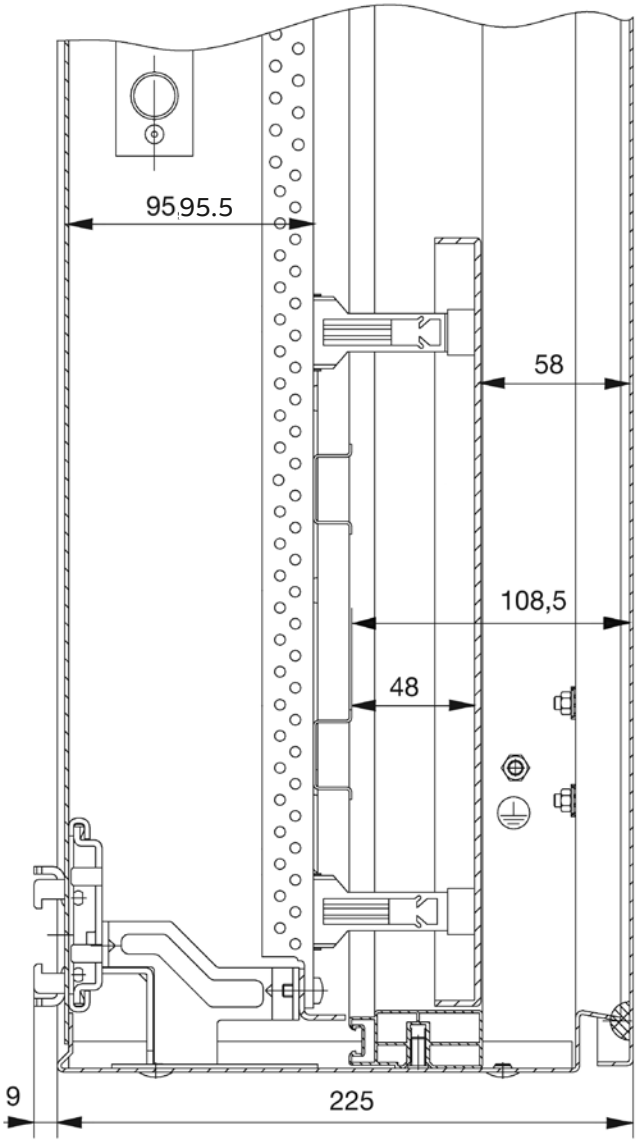
	Type	Weight (kg) with plinth	Power loss (W) $\triangle t_{1,0}$ 20K	Ext. dimensions with plinth H x W x D	Int. dimensions H1 x W1
HS floor-standing cabinets With mounted EDF installation set for installing distribution board panels, combination sets and modules on the EDF mounting frame, using the ZB15 assembly set, it is also possible to incorporate meter panels.	1/8HS	30.33	67,40	1900 x 300 x 225	1802 x 252
	2/8HS	44.62	119,20	1900 x 550 x 225	1802 x 502
	3/8HS	57.20	170,90	1900 x 800 x 225	1802 x 752
	4/8HS	73.41	206,80	1900 x 1050 x 225	1802 x 1002
H floor-standing cabinets With mounted EDF installation set for installing distribution board panels, combination sets and modules on the EDF mounting frame.	1/8H	29.63	67,40	1900 x 300 x 225	1802 x 252
	2/8H	43.88	119,20	1900 x 550 x 225	1802 x 502
	3/8H	56.06	170,90	1900 x 800 x 225	1802 x 752
	4/8H	70.83	206,80	1900 x 1050 x 225	1802 x 1002

> Dimensions in mm

Cross section, HS cabinet with meter panel



Cross section H-cabinet with distribution board panels/modules on the EDF mounting frame

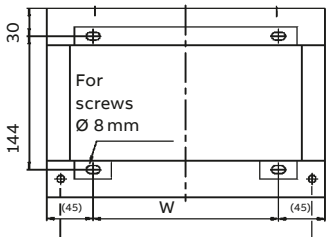


Quick product references

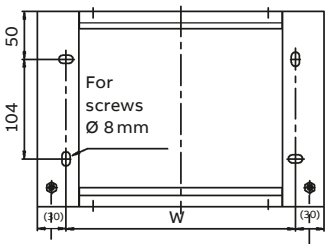
Overall dimensions

H and HS floor-standing cabinets IP43 Plinth dimensions

50 mm plinth



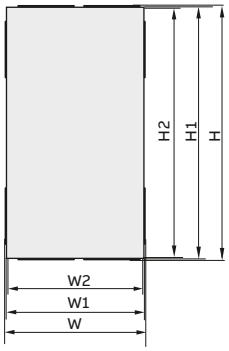
150 mm plinth



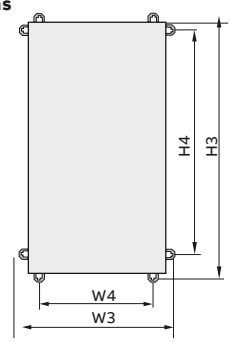
	Type	Fixing the plinth on the cabinet A in mm	Fixing the plinth on the floor B in mm
Hole spacing for fixing the plinth on the floor Plinth, height 50 mm	GSR1	270 mm	210 mm
	GSR2	520 mm	460 mm
	GSR3	770 mm	710 mm
	GSR4	1020 mm	960 mm
Hole spacing for fixing the plinth on the floor Plinth, height 150 mm	GRG1	270 mm	240 mm
	GRG2	520 mm	490 mm
	GRG3	770 mm	740 mm
	GRG4	1020 mm	990 mm

TwinLine-G, cabinet depth 225 mm,

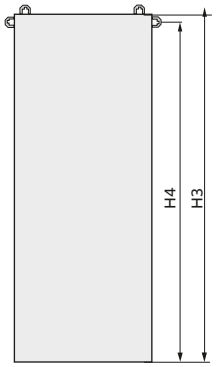
Front view
Wall-mounting and floor-standing cabinet
External/internal dimensions



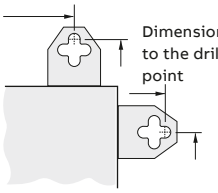
Front view
Wall-mounting cabinet
Wall fastening dimensions



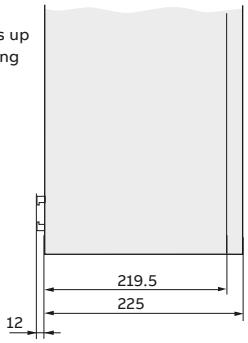
Front view
Floor-standing cabinet
Wall fastening dimensions



Front view
External fastening
Detail



Side view
With/without door



Height		Width	Type	External dimensions in mm		Internal dimensions in mm		External dimensions with flange knockout in mm		Wall fastening dimensions in mm			
GU	**OH**	**PW**		**H1**	**W1**	**H2**	**W2**	**H**	**W**	**H3**	**W3**	**H4**	**W4**
TwinLine-G wall-mounting cabinets ⏚▣													
4	0	1	TG104	650	300	602	252	654	304	693.5	328	542	192
		2	TG204	650	550	602	502	654	554	693.5	578	542	442
		3	TG304	650	800	602	752	654	804	693.5	828	542	692
		4	TG404	650	1050	602	1002	654	1054	693.5	1078	542	942
		5	TG504	650	1300	602	1252	654	1304	693.5	1328	542	1192
5	1	1	TG105	800	300	752	252	804	304	843.5	328	692	192
		2	TG205	800	550	752	502	804	554	843.5	578	692	442
		3	TG305	800	800	752	752	804	804	843.5	828	692	692
		4	TG405	800	1050	752	1002	804	1054	843.5	1078	692	942
		5	TG505	800	1300	752	1252	804	1304	843.5	1328	692	1192
6	2	1	TG106	950	300	902	252	954	304	993.5	328	842	192
		2	TG206	950	550	902	502	954	554	993.5	578	842	442
		3	TG306	950	800	902	752	954	804	993.5	828	842	692
		4	TG406	950	1050	902	1002	954	1054	993.5	1078	842	942
		5	TG506	950	1300	902	1252	954	1304	993.5	1328	842	1192
7	3	1	TG107	1100	300	1052	252	1104	304	1143.5	328	992	192
		2	TG207	1100	550	1052	502	1104	554	1143.5	578	992	442
		3	TG307	1100	800	1052	752	1104	804	1143.5	828	992	692
		4	TG407	1100	1050	1052	1002	1104	1054	1143.5	1078	992	942
		5	TG507	1100	1300	1052	1252	1104	1304	1143.5	1328	992	1192
8	4	1	TG108	1250	300	1202	252	1254	304	1293.5	328	1142	192
		2	TG208	1250	550	1202	502	1254	554	1293.5	578	1142	442
		3	TG308	1250	800	1202	752	1254	804	1293.5	828	1142	692
		4	TG408	1250	1050	1202	1002	1254	1054	1293.5	1078	1142	942
		5	TG508	1250	1300	1202	1252	1254	1304	1293.5	1328	1142	1192
9	5	1	TG109	1400	300	1352	252	1404	304	1443.5	328	1292	192
		2	TG209	1400	550	1352	502	1404	554	1443.5	578	1292	442
		3	TG309	1400	800	1352	752	1404	804	1443.5	828	1292	692
		4	TG409	1400	1050	1352	1002	1404	1054	1443.5	1078	1292	942
		5	TG509	1400	1300	1352	1252	1404	1304	1443.5	1328	1292	1192
TwinLine-G floor-standing cabinets ⏚▣													
12	8	1	TG112	1850	300	1802	252	1854	304	1872	328	1796	192
		2	TG212	1850	550	1802	502	1854	554	1872	578	1796	442
		3	TG312	1850	800	1802	752	1854	804	1872	828	1796	692
		4	TG412	1850	1050	1802	1002	1854	1054	1872	1078	1796	942
		5	TG512	1850	1300	1802	1252	1854	1304	1872	1328	1796	1192

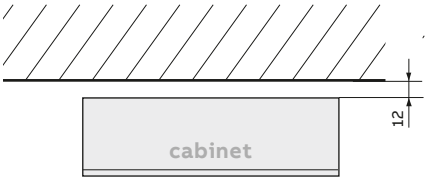
> Dimensions in mm

Quick product references

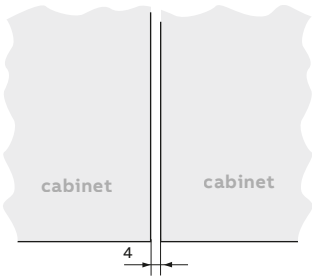
Overall dimensions

TwinLine-G, cabinet depth 225 mm, .,

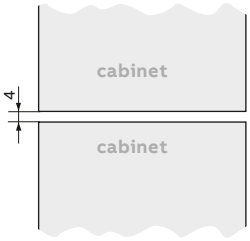
Type of installation
Cabinet to the wall



Type of installation
Cabinet combination in series



Type of installation
Cabinet combination on top of each other

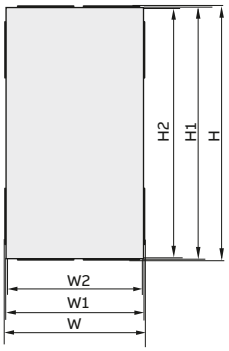


Height		Width		⏚/⧈ Power loss in Watt*	⏚ Cabinet weight in kg		⧈ Cabinet weight in kg		max. installation weight
GU	OH	PW	Type	$\triangle t_{1.0}$ 20K	With door	Without door	With door	Without door	in kg
TwinLine-G wall-mounting cabinets ⏚⧈									
4	0	1	TG104	35.80	11.40	7.43	12.89	8.92	15.00
		2	TG204	57.00	16.17	9.95	17.80	11.59	30.00
		3	TG304	61.00	21.02	12.47	22.80	14.25	45.00
		4	TG404	82.30	28.03	15.54	29.95	17.46	60.00
		5	TG504	107.80	32.86	18.07	34.92	20.13	75.00
5	1	1	TG105	42.30	13.17	8.40	14.86	10.10	20.50
		2	TG205	66.10	18.72	11.22	20.60	13.11	41.00
		3	TG305	71.00	24.29	14.03	26.37	16.11	61.50
		4	TG405	99.00	32.45	17.40	34.71	19.67	82.50
		5	TG505	131.20	38.03	20.22	40.49	22.68	103.00
6	2	1	TG106	48.80	14.89	9.37	16.78	11.26	26.00
		2	TG206	52.60	21.23	12.43	23.36	14.61	52.50
		3	TG306	80.90	27.55	15.59	29.92	17.37	78.50
		4	TG406	115.10	36.84	19.25	39.46	21.86	105.00
		5	TG506	153.70	43.18	22.36	46.03	25.09	131.00
7	3	1	TG107	55.40	17.14	10.72	19.23	12.81	31.50
		2	TG207	61.40	24.36	14.25	26.74	16.64	63.50
		3	TG307	93.50	31.56	17.79	34.23	20.46	95.50
		4	TG407	133.70	42.23	21.87	45.19	24.83	127.50
		5	TG507	174.30	49.44	25.41	52.69	28.66	159.00
8	4	1	TG108	61.80	18.90	11.68	21.20	13.98	37.50
		2	TG208	69.30	26.87	15.51	29.50	18.15	75.00
		3	TG308	102.90	34.82	19.34	37.80	22.31	112.50
		4	TG408	150.30	46.64	23.72	50.01	27.10	150.00
		5	TG508	193.30	54.59	27.55	58.31	31.27	187.50
9	5	1	TG109	68.20	20.66	12.65	23.15	15.14	43.00
		2	TG209	79.10	29.38	16.77	32.23	19.65	86.00
		3	TG309	119.30	38.08	20.89	41.35	24.16	129.00
		4	TG409	157.50	51.04	25.57	54.77	29.31	172.50
		5	TG509	208.80	59.74	29.69	63.87	33.82	215.50
TwinLine-G floor-standing cabinets ⏚⧈									
		1	TG112	64.00	26.17	15.78	28.89	18.50	60.00
		2	TG212	113.00	40.22	23.81	43.73	27.31	120.00
12	8	3	TG312	162.60	51.87	29.54	56.17	33.84	180.00
		4	TG412	202.10	69.40	36.27	74.59	41.46	240.00
		5	TG512	230.80	80.19	41.11	86.17	47.09	300.00

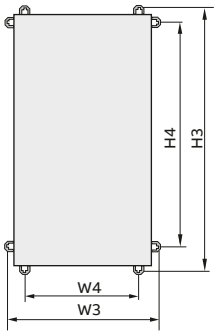
* General remarks on the determination of the power loss: Values according to DIN EN 61439-1 section 10.10.4.2.2; ambient temperature 35°C, internal temperature 55°C, the allowed device temperature must not be exceeded, levelling of the place of installation ≤ 2000 m altitude; internal form of separation = 1; side walls not covered

TwinLine-L, cabinet depth 275 mm,

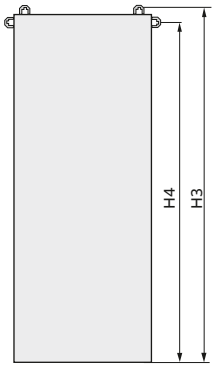
Front view
Wall-mounting and floor-standing cabinet
External/internal dimensions



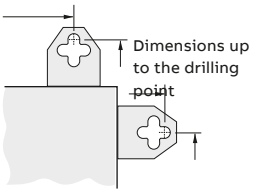
Front view
Wall-mounting cabinet
Wall fastening dimensions



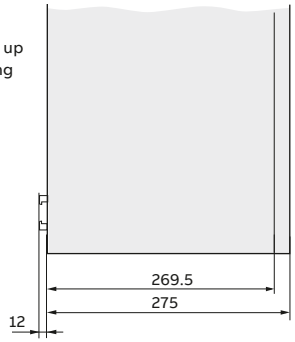
Front view
Floor-standing cabinet
Wall fastening dimensions



Front view
External fastening
Detail



Side view
With/without door



Height		Width		External dimensions in mm		Internal dimensions in mm		External dimensions with flange knockout in mm		Wall fastening dimensions in mm			
GU	OH	PW	Type	H1	W1	H2	W2	H	W	H3	W3	H4	W4
TwinLine-L wall-mounting cabinets ⏚▣													
4	0	1	TL104	650	300	602	252	654	304	693.5	328	542	192
		2	TL204	650	550	602	502	654	554	693.5	578	542	442
		3	TL304	650	800	602	752	654	804	693.5	828	542	692
		4	TL404	650	1050	602	1002	654	1054	693.5	1078	542	942
		5	TL504	650	1300	602	1252	654	1304	693.5	1328	542	1192
5	1	1	TL105	800	300	752	252	804	304	843.5	328	692	192
		2	TL205	800	550	752	502	804	554	843.5	578	692	442
		3	TL305	800	800	752	752	804	804	843.5	828	692	692
		4	TL405	800	1050	752	1002	804	1054	843.5	1078	692	942
		5	TL505	800	1300	752	1252	804	1304	843.5	1328	692	1192
6	2	1	TL106	950	300	902	252	954	304	993.5	328	842	192
		2	TL206	950	550	902	502	954	554	993.5	578	842	442
		3	TL306	950	800	902	752	954	804	993.5	828	842	692
		4	TL406	950	1050	902	1002	954	1054	993.5	1078	842	942
		5	TL506	950	1300	902	1252	954	1304	993.5	1328	842	1192
7	3	1	TL107	1100	300	1052	252	1104	304	1143.5	328	992	192
		2	TL207	1100	550	1052	502	1104	554	1143.5	578	992	442
		3	TL307	1100	800	1052	752	1104	804	1143.5	828	992	692
		4	TL407	1100	1050	1052	1002	1104	1054	1143.5	1078	992	942
		5	TL507	1100	1300	1052	1252	1104	1304	1143.5	1328	992	1192
8	4	1	TL108	1250	300	1202	252	1254	304	1293.5	328	1142	192
		2	TL208	1250	550	1202	502	1254	554	1293.5	578	1142	442
		3	TL308	1250	800	1202	752	1254	804	1293.5	828	1142	692
		4	TL408	1250	1050	1202	1002	1254	1054	1293.5	1078	1142	942
		5	TL508	1250	1300	1202	1252	1254	1304	1293.5	1328	1142	1192
9	5	1	TL109	1400	300	1352	252	1404	304	1443.5	328	1292	192
		2	TL209	1400	550	1352	502	1404	554	1443.5	578	1292	442
		3	TL309	1400	800	1352	752	1404	804	1443.5	828	1292	692
		4	TL409	1400	1050	1352	1002	1404	1054	1443.5	1078	1292	942
		5	TL509	1400	1300	1352	1252	1404	1304	1443.5	1328	1292	1192
TwinLine-L floor-standing cabinets ⏚▣													
12	8	1	TL112	1850	300	1802	252	1854	304	1872	328	1796	192
		2	TL212	1850	550	1802	502	1854	554	1872	578	1796	442
		3	TL312	1850	800	1802	752	1854	804	1872	828	1796	692
		4	TL412	1850	1050	1802	1002	1854	1054	1872	1078	1796	942
		5	TL512	1850	1300	1802	1252	1854	1304	1872	1328	1796	1192

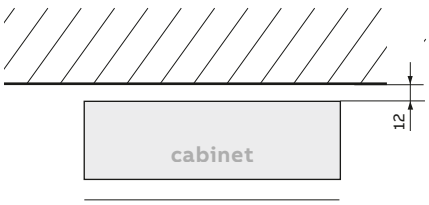
> Dimensions in mm

Quick product references

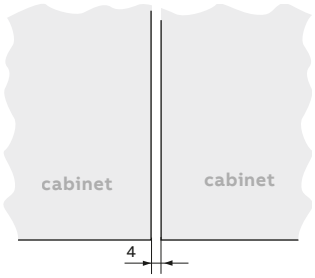
Overall dimensions

TwinLine-L, cabinet depth 275 mm .,

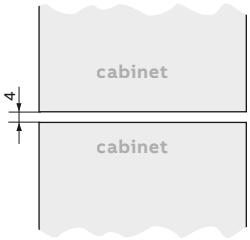
Type of installation
Cabinet to the wall



Type of installation
Cabinet combination
in series



Type of installation
Cabinet combination
on top of each other

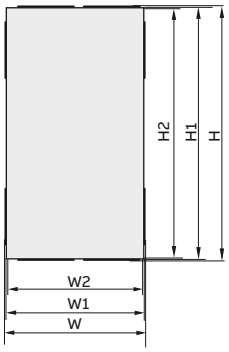


Height		Width	Type	⏚/⧈ Power loss in Watt* $\triangle t_{1.0}$ 20K	⏚ Cabinet weight in kg		⧈ Cabinet weight in kg		max. installation weight
GU	OH	PW			With door	Without door	With door	Without door	in kg
TwinLine-L wall-mounting cabinets ⏚⧈									
4	0	1	TL104	38.80	12.25	8.28	13.80	9.83	15.00
		2	TL204	60.80	17.23	10.97	18.94	12.72	30.00
		3	TL304	67.10	22.30	13.75	24.16	15.61	45.00
		4	TL404	89.70	29.54	17.06	31.54	19.08	60.00
		5	TL504	116.80	34.59	19.79	36.76	21.97	75.00
5	1	1	TL105	45.80	14.13	9.37	15.89	11.13	20.50
		2	TL205	70.20	19.90	12.40	21.86	14.36	41.00
		3	TL305	78.00	25.68	15.43	27.86	17.60	61.50
		4	TL405	108.90	34.08	19.03	36.45	21.38	82.50
		5	TL505	145.10	39.87	22.06	42.46	24.64	103.00
6	2	1	TL106	52.80	15.97	10.45	17.94	12.35	26.00
		2	TL206	59.90	22.53	13.78	24.75	16.00	52.50
		3	TL306	89.80	29.06	17.10	31.54	19.58	78.50
		4	TL406	128.10	38.59	21.00	41.32	23.73	105.00
		5	TL506	168.00	45.14	24.32	48.09	27.28	131.00
7	3	1	TL107	59.80	18.34	11.89	20.51	14.09	31.50
		2	TL207	65.20	25.77	15.67	28.25	18.15	63.50
		3	TL307	102.80	33.19	19.41	35.97	22.20	95.50
		4	TL407	145.70	44.10	23.74	47.19	27.14	127.50
		5	TL507	189.20	51.51	27.48	54.91	30.88	159.00
8	4	1	TL108	66.70	20.22	13.00	22.61	15.39	37.50
		2	TL208	74.40	28.40	17.04	31.14	19.78	75.00
		3	TL308	117.80	36.57	21.09	39.66	24.18	112.50
		4	TL408	163.70	48.62	25.70	52.14	29.22	150.00
		5	TL508	207.70	56.79	29.75	60.65	33.61	187.50
9	5	1	TL109	52.20	22.39	14.09	24.69	16.68	43.00
		2	TL209	86.00	31.03	18.42	34.03	21.42	86.00
		3	TL309	126.00	39.95	22.76	43.35	26.16	129.00
		4	TL409	179.10	53.14	27.68	57.02	31.55	172.50
		5	TL509	222.10	62.05	32.01	66.34	36.29	215.50
TwinLine-L floor-standing cabinets ⏚⧈									
12	8	1	TL112	69.60	27.96	17.57	30.84	20.45	60.00
		2	TL212	120.90	42.23	25.81	45.91	29.49	120.00
		3	TL312	171.90	54.09	31.76	58.58	36.24	180.00
		4	TL412	207.00	71.86	38.72	77.25	44.12	240.00
		5	TL512	250.30	83.46	44.37	89.66	50.57	300.00

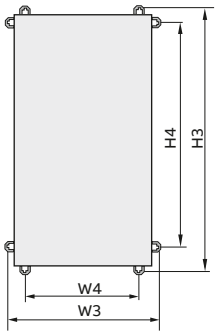
* General remarks on the determination of the power loss: Values according to DIN EN 61439-1, section 10.10.4.2.2; ambient temperature 35°C, internal temperature 55°C, the allowed device temperature must not be exceeded, levelling of the place of installation ≤ 2000 m altitude; internal form of separation = 1; side walls not covered

TwinLine-W, cabinet depth 350 mm,

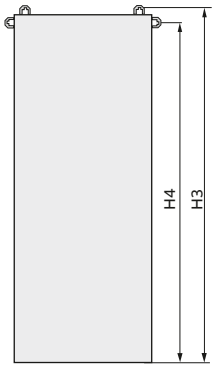
Front view
Wall-mounting and floor-standing cabinet
External/internal dimensions



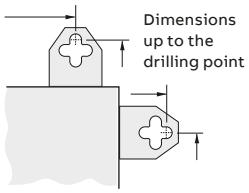
Front view
Wall-mounting cabinet
Wall fastening dimensions



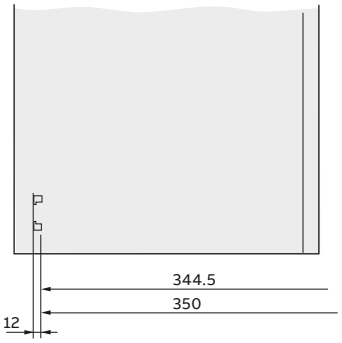
Front view
Floor-standing cabinet
Wall fastening dimensions



Front view
External fastening
Detail



Side view
With/without door



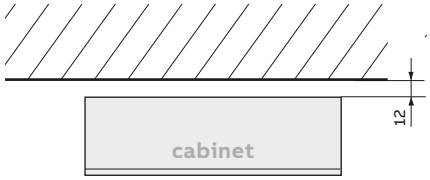
Height		Width		External dimensions in mm		Internal dimensions in mm		External dimensions with flange knockout in mm		Wall fastening dimensions in mm			
GU	**OH**	**PW**	**Type**	**H1**	**W1**	**H2**	**W2**	**H**	**W**	**H3**	**W3**	**H4**	**W4**
TwinLine-W wall-mounting cabinets ⏚▣													
4	0	1	TW104	650	300	602	252	654	304	693.5	328	542	192
		2	TW204	650	550	602	502	654	554	693.5	578	542	442
		3	TW304	650	800	602	752	654	804	693.5	828	542	692
		4	TW404	650	1050	602	1002	654	1054	693.5	1078	542	942
		5	TW504	650	1300	602	1252	654	1304	693.5	1328	542	1192
5	1	1	TW105	800	300	752	252	804	304	843.5	328	692	192
		2	TW205	800	550	752	502	804	554	843.5	578	692	442
		3	TW305	800	800	752	752	804	804	843.5	828	692	692
		4	TW405	800	1050	752	1002	804	1054	843.5	1078	692	942
		5	TW505	800	1300	752	1252	804	1304	843.5	1328	692	1192
6	2	1	TW106	950	300	902	252	954	304	993.5	328	842	192
		2	TW206	950	550	902	502	954	554	993.5	578	842	442
		3	TW306	950	800	902	752	954	804	993.5	828	842	692
		4	TW406	950	1050	902	1002	954	1054	993.5	1078	842	942
		5	TW506	950	1300	902	1252	954	1304	993.5	1328	842	1192
7	3	1	TW107	1100	300	1052	252	1104	304	1143.5	328	992	192
		2	TW207	1100	550	1052	502	1104	554	1143.5	578	992	442
		3	TW307	1100	800	1052	752	1104	804	1143.5	828	992	692
		4	TW407	1100	1050	1052	1002	1104	1054	1143.5	1078	992	942
		5	TW507	1100	1300	1052	1252	1104	1304	1143.5	1328	992	1192
8	4	1	TW108	1250	300	1202	252	1254	304	1293.5	328	1142	192
		2	TW208	1250	550	1202	502	1254	554	1293.5	578	1142	442
		3	TW308	1250	800	1202	752	1254	804	1293.5	828	1142	692
		4	TW408	1250	1050	1202	1002	1254	1054	1293.5	1078	1142	942
		5	TW508	1250	1300	1202	1252	1254	1304	1293.5	1328	1142	1192
9	5	1	TW109	1400	300	1352	252	1404	304	1443.5	328	1292	192
		2	TW209	1400	550	1352	502	1404	554	1443.5	578	1292	442
		3	TW309	1400	800	1352	752	1404	804	1443.5	828	1292	692
		4	TW409	1400	1050	1352	1002	1404	1054	1443.5	1078	1292	942
		5	TW509	1400	1300	1352	1252	1404	1304	1443.5	1328	1292	1192
TwinLine-W floor-standing cabinets ⏚▣													
12	8	1	TW112	1850	300	1802	252	1854	304	1872	328	1796	192
		2	TW212	1850	550	1802	502	1854	554	1872	578	1796	442
		3	TW312	1850	800	1802	752	1854	804	1872	828	1796	692
		4	TW412	1850	1050	1802	1002	1854	1054	1872	1078	1796	942
		5	TW512	1850	1300	1802	1252	1854	1304	1872	1328	1796	1192
		6	TW612	1850	1550	1802	1502	1854	1554	1872	1578	1796	1442

Quick product references

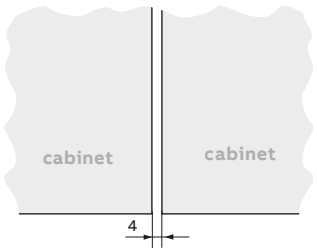
Overall dimensions

TwinLine-W, cabinet depth 350 mm

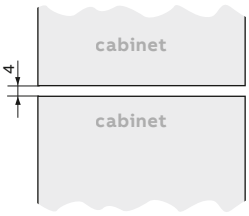
Type of installation
Cabinet to the wall



Type of installation
Cabinet combination in series



Type of installation
Cabinet combination on top of each other



Height		Width		⏚/⧈ Power loss in Watt*	⏚ Cabinet weight in kg		⧈ Cabinet weight in kg		max. installation weight
GU	OH	PW	Type	$\triangle t_{1.0}$ 20K	With door	Without door	With door	Without door	in kg
TwinLine-W wall-mounting cabinets ⏚⧈									
4	0	1	TW104	43.00	13.50	9.47	15.13	11.16	15.00
		2	TW204	65.90	18.79	12.58	20.60	14.38	30.00
		3	TW304	75.90	24.17	15.62	26.16	17.61	45.00
		4	TW404	100.10	31.76	19.27	33.92	21.44	60.00
		5	TW504	129.30	37.12	22.32	39.46	24.66	75.00
5	1	1	TW105	50.50	15.56	10.80	17.41	12.65	20.50
		2	TW205	59.80	21.64	14.14	23.72	16.21	41.00
		3	TW305	87.70	27.74	17.48	30.04	19.78	61.50
		4	TW405	121.30	36.47	21.42	39.00	23.95	82.50
		5	TW505	158.90	42.58	24.77	45.33	27.52	103.00
6	2	1	TW106	58.20	17.58	12.06	19.65	14.13	26.00
		2	TW206	68.20	24.44	15.69	26.79	18.04	52.50
		3	TW306	102.80	31.29	19.33	33.91	21.95	78.50
		4	TW406	144.80	41.16	23.57	44.06	26.46	105.00
		5	TW506	185.80	48.02	27.20	51.19	30.07	131.00
7	3	1	TW107	65.80	20.12	13.70	22.41	15.99	31.50
		2	TW207	75.70	27.87	17.76	30.48	20.38	63.50
		3	TW307	116.50	35.59	21.82	38.53	24.76	95.50
		4	TW407	163.60	46.84	26.48	50.11	29.75	127.50
		5	TW507	209.30	54.58	30.55	58.16	34.13	159.00
8	4	1	TW108	52.00	22.18	14.96	24.81	17.48	37.50
		2	TW208	82.70	30.67	19.32	33.56	22.20	75.00
		3	TW308	132.60	39.15	23.67	42.42	26.93	112.50
		4	TW408	180.80	51.55	28.63	55.25	32.33	150.00
		5	TW508	227.50	60.03	32.98	64.10	37.06	187.50
9	5	1	TW109	58.60	24.23	16.22	26.96	18.95	43.00
		2	TW209	93.90	33.48	20.87	36.63	24.03	86.00
		3	TW309	146.40	42.71	25.52	46.29	29.10	129.00
		4	TW409	197.10	56.24	30.77	60.32	34.85	172.50
		5	TW509	238.20	65.47	35.42	69.97	39.93	215.50
TwinLine-W floor-standing cabinets ⏚⧈									
12	8	1	TW112	78.90	30.62	20.24	33.72	23.33	60.00
		2	TW212	131.70	45.10	28.69	49.02	32.60	120.00
		3	TW312	181.50	57.38	35.05	62.12	39.79	180.00
		4	TW412	226.00	75.29	42.15	80.95	47.82	240.00
		5	TW512	269.40	87.20	48.12	93.70	54.61	300.00
		6	TW612	354.50	99.02	53.98	106.34	61.30	360.00

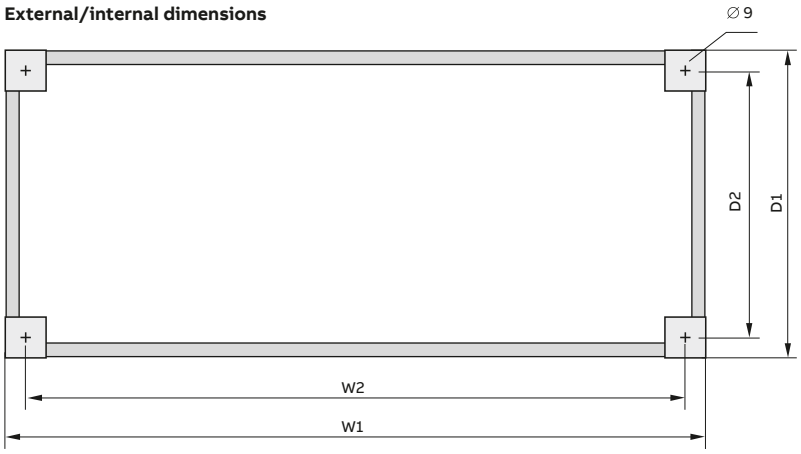
* General remarks on the determination of the power loss: Values according to DIN EN 61439-1, section 10.10.4.2.2; ambient temperature 35°C, internal temperature 55°C, the allowed device temperature must not be exceeded, levelling of the place of installation ≤ 2000 m altitude; internal form of separation = 1; side walls not covered

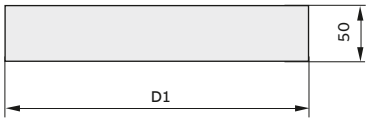
Quick product references

Overall dimensions

TwinLine plinth, height 50 mm

External/internal dimensions





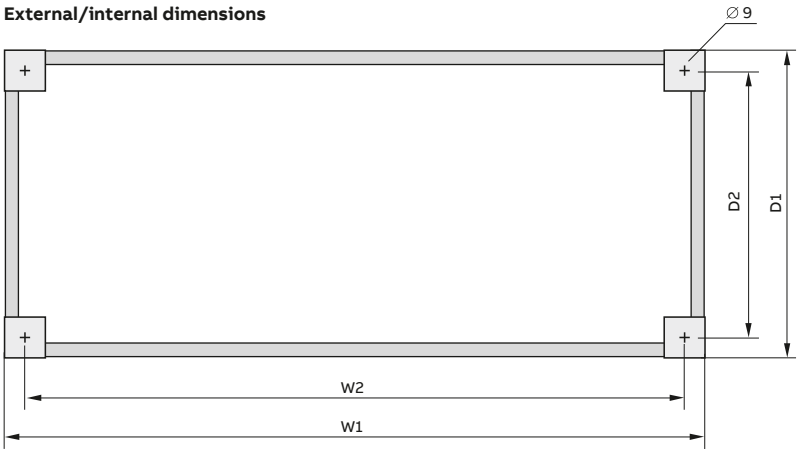
Height	Depth	Width		External dimensions Width x depth in mm		Internal dimensions Width x depth in mm		Weight
mm	mm	PW	Type	W1	D1	W2	D2	in kg
TwinLine-G, plinth 50 mm								
50	225	1	TZG105	300	203.5	270	173.5	1.37
		2	TZG205	550	203.5	520	173.5	1.91
		3	TZG305	800	203.5	770	173.5	3.14
		4	TZG405	1050	203.5	1020	173.5	2.93
		5	TZG505	1300	203.5	1270	173.5	3.44
TwinLine-L, plinth 50 mm								
50	275	1	TZL105	300	253.5	270	223.5	1.49
		2	TZL205	550	253.5	520	223.5	2.03
		3	TZL305	800	253.5	770	223.5	2.54
		4	TZL405	1050	253.5	1020	223.5	3.34
		5	TZL505	1300	253.5	1270	223.5	5.78
TwinLine-W, plinth 50 mm								
50	350	1	TZW105	300	328.5	270	298.5	1.67
		2	TZW205	550	328.5	520	298.5	2.21
		3	TZW305	800	328.5	770	298.5	2.72
		4	TZW405	1050	328.5	1020	298.5	5.03
		5	TZW505	1300	328.5	1270	298.5	5.97
		6	TZW605	1550	328.5	1520	298.5	6.90

Quick product references

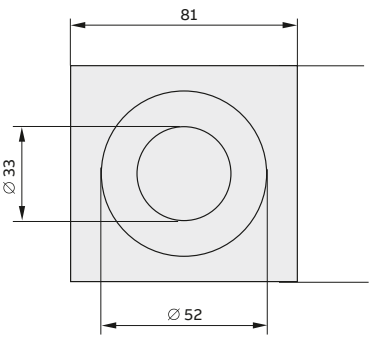
Overall dimensions

TwinLine plinth, height 100 mm

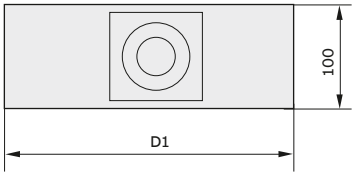
External/internal dimensions



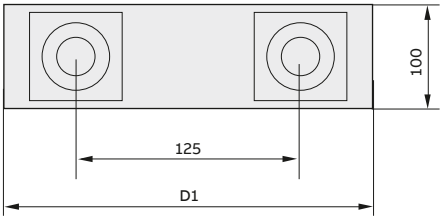
Detail view for side knockout



View side knockout TwinLine-G and -L



View side knockout TwinLine-W



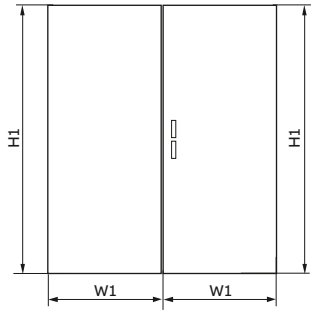
Height	Depth	Width		External dimensions Width x depth in mm		Internal dimensions Width x depth in mm		Weight
mm	mm	PW	Type	W1	D1	W2	D2	in kg
TwinLine-G, plinth 100 mm								
100	225	1	TZG110	300	203.5	270	173.5	2.22
		2	TZG210	550	203.5	520	173.5	3.06
		3	TZG310	800	203.5	770	173.5	3.87
		4	TZG410	1050	203.5	1020	173.5	4.67
		5	TZG510	1300	204.5	1270	173.5	5.47
TwinLine-L, plinth 100 mm								
100	275	1	TZL110	300	253.5	270	223.5	2.41
		2	TZL210	550	253.5	520	223.5	3.24
		3	TZL310	800	253.5	770	223.5	4.05
		4	TZL410	1050	253.5	1020	223.5	6.71
		5	TZL510	1300	254.5	1270	223.5	7.95
TwinLine-W, plinth 100 mm								
100	350	1	TZW110	300	328.5	270	298.5	2.68
		2	TZW210	550	328.5	520	298.5	3.52
		3	TZW310	800	328.5	770	298.5	4.32
		4	TZW410	1050	328.5	1020	298.5	6.98
		5	TZW510	1300	329.5	1270	298.5	8.22
		6	TZW610	1550	329.5	1520	298.5	9.45

Quick product references

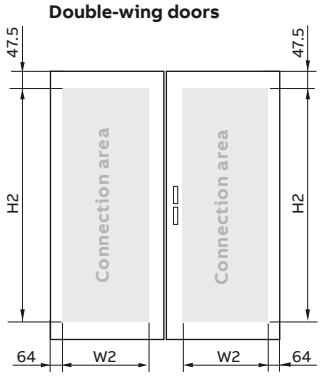
Overall dimensions

TwinLine doors, height 4 up to 7 GU

External dimensions
For all cabinets of a width of 4 panels and more
Double-wing doors



Usable connection area
For all cabinets of a width of 4 panels and more
Double-wing doors



Height		Width			External dimensions Height x width in mm		External dimensions Height x width in mm		Weight
GU	OH	PW	Type	Remark	H1	W1	H2	W2	in kg
TwinLine wall-mounting cabinets, doors									
4	0	1	TZB104		643	289	548	123	5.46
		2	TZB204		643	539	548	373	7.75
		3	TZB304		643	789	548	623	10.11
		4*[1]	TZB204L	Door left	643	526 *[2]	548	373	7.77
			TZB204R	Door right	643	539	548	373	7.78
		5*[1]	TZB304L	Door left	643	776 *[2]	548	623	10.11
			TZB204R	Door right	643	539	548	373	7.78
5	1	1	TZB105		793	289	698	123	6.27
		2	TZB205		793	539	698	373	9.05
		3	TZB305		793	789	698	623	11.85
		4*[1]	TZB205L	Door left	793	526 *[2]	698	373	9.10
			TZB205R	Door right	793	539	698	373	9.05
		5*[1]	TZB305L	Door left	793	776 *[2]	698	623	11.89
			TZB205R	Door right	793	539	698	373	9.05
6	2	1	TZB106		943	289	848	123	7.03
		2	TZB206		943	539	848	373	10.32
		3	TZB306		943	789	848	623	13.58
		4*[1]	TZB206L	Door left	943	526 *[2]	848	373	10.41
			TZB206R	Door right	943	539	848	373	10.32
		5*[1]	TZB306L	Door left	943	776 *[2]	848	623	13.68
			TZB206R	Door right	943	539	848	373	10.32
7	3	1	TZB107		1093	289	998	123	7.94
		2	TZB207		1093	539	998	373	11.69
		3	TZB307		1093	789	998	623	15.42
		4*[1]	TZB207L	Door left	1093	526 *[2]	998	373	11.85
			TZB207R	Door right	1093	539	998	373	11.69
		5*[1]	TZB307L	Door left	1093	776 *[2]	998	623	15.57
			TZB207R	Door right	1093	539	998	373	11.69

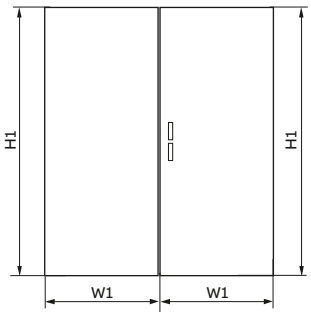
[1] 4 or more panels wide: double-wing doors
*[2] Dimensions incl. central door bar

Quick product references

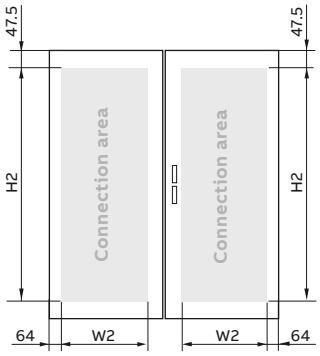
Overall dimensions

TwinLine doors, height 8 up to 12 GU

External dimensions
For all cabinets of a width of 4 panels and more
Double-wing doors



Usable connection area
For all cabinets of a width of 4 panels and more
Double-wing doors



Height		Width			External dimensions Height x width in mm		External dimensions Height x width in mm		Weight
GU	**OH**	**PW**	**Type**	**Remark**	**H1**	**W1**	**H2**	**W2**	**in kg**
TwinLine wall-mounting cabinets, doors									
8	4	1	TZB108		1243	289	1148	123	8.75
		2	TZB208		1243	539	1148	373	12.96
		3	TZB308		1243	789	1148	623	17.15
		4*	TZB208L	Door left	1243	526 *2	1148	373	13.17
			TZB208R	Door right	1243	539	1148	373	12.96
		5*	TZB308L	Door left	1243	776 *2	1148	623	17.36
			TZB208R	Door right	1243	539	1148	373	12.96
9	5	1	TZB109		1393	289	1298	123	9.55
		2	TZB209		1393	539	1298	373	14.23
		3	TZB309		1393	789	1298	623	18.88
		4*	TZB209L	Door left	1393	526 *2	1298	373	14.49
			TZB209R	Door right	1393	539	1298	373	14.23
		5*	TZB309L	Door left	1393	776 *2	1298	623	19.14
			TZB209R	Door right	1393	539	1298	373	14.23
TwinLine floor-standing cabinets, doors									
12	8	1	TZB112		1843	289	1748	123	11.96
		2	TZB212		1843	539	1748	373	18.07
		3	TZB312		1843	789	1748	623	24.08
		4*	TZB212L	Door left	1843	526 *2	1748	373	18.45
			TZB212R	Door right	1843	539	1748	373	18.03
		5*	TZB312L	Door left	1843	776 *2	1748	623	24.49
			TZB212R	Door right	1843	539	1748	373	18.03
		6*	TZB312L	Door left	1843	776 *2	1748	623	24.49
			TZB312R	Door right	1843	789	1748	623	24.08

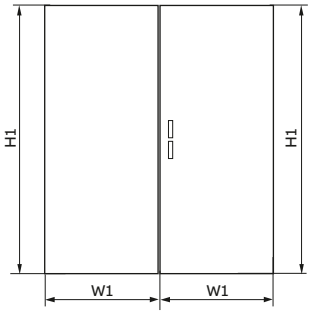
*Double-wing doors for all cabinets of a width of 4 panels and more
*2 Dimensions incl. central door bar

Quick product references

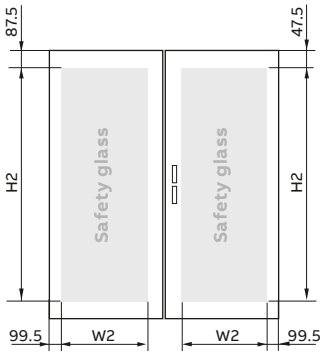
Overall dimensions

TwinLine Transparent doors, height 4 up to 7 GU

External dimensions
For all cabinets of a width of 4 panels and more
Double-wing doors



Dimensions of vewing area
For all cabinets of a width of 4 panels and more
Double-wing doors



Height		Width			External dimensions Height x width in mm		Vewing area Height x width in mm		Weight
GU	OH	PW	Type	Remark	H1	W1	H2	W2	in kg
TwinLine wall-mounting cabinets, doors									
4	0	2	TZT204		643	539	468	340	6.40
		3	TZT304		643	789	468	590	8.70
		4*1	TZT204L	Door left	643	526 *2	468	340	6.50
			TZT204R	Door right	643	539	468	340	6.50
		5*1	TZT304L	Door left	643	776 *2	468	590	8.40
			TZT204R	Door right	643	539	468	340	6.50
5	1	2	TZT205		793	539	618	340	7.60
		3	TZT305		793	789	618	590	10.20
		4*1	TZT205L	Door left	793	526 *2	618	340	7.40
			TZT205R	Door right	793	539	618	340	7.50
		5*1	TZT305L	Door left	793	776 *2	618	590	9.90
			TZT205R	Door right	793	539	618	340	7.50
6	2	2	TZT206		943	539	768	340	8.70
		3	TZT306		943	789	768	590	11.50
		4*1	TZT206L	Door left	943	526 *2	768	340	8.50
			TZT206R	Door right	943	539	768	340	8.60
		5*1	TZT306L	Door left	943	776 *2	768	590	11.40
			TZT206R	Door right	943	539	768	340	8.60
7	3	2	TZT207		1093	539	918	340	10.00
		3	TZT307		1093	789	918	590	13.00
		4*1	TZT207L	Door left	1093	526 *2	918	340	9.70
			TZT207R	Door right	1093	539	918	340	9.80
		5*1	TZT307L	Door left	1093	776 *2	918	590	13.00
			TZT207R	Door right	1093	539	918	340	9.80

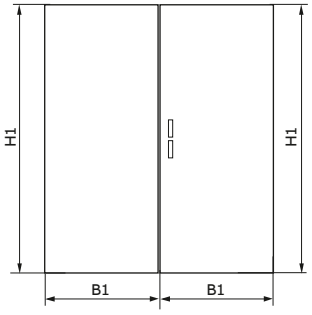
*1 4 or more panels wide: double-wing doors
*2 Dimensions incl. central door bar

Quick product references

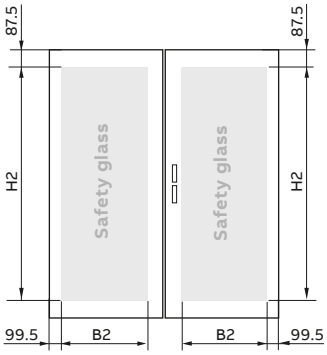
Overall dimensions

TwinLine Transparent doors, height 8 up to 12 GU

External dimensions
For all cabinets of a width of 4 panels and more Double-wing doors



Dimensions of vewing area
For all cabinets of a width of 4 panels and more Double-wing doors



Height		Width			External dimensions Height x width in mm		Vewing area Height x width in mm		Weight
GU	**OH**	**PW**	**Type**	**Remark**	**H1**	**W1**	**H2**	**W2**	**in kg**
TwinLine wall-mounting cabinets, doors									
8	4	2	TZB208		1243	539	1068	340	11.10
		3	TZB308		1243	789	1068	590	14.60
		4*	TZB208L	Door left	1243	526 *²	1068	340	10.90
			TZB208R	Door right	1243	539	1068	340	11.10
		5*	TZB308L	Door left	1243	776 *²	1068	590	14.60
			TZB208R	Door right	1243	539	1068	340	11.10
9	5	2	TZB209		1393	539	1218	340	12.20
		3	TZB309		1393	789	1218	590	16.10
		4*	TZB209L	Door left	1393	526 *²	1218	340	12.00
			TZB209R	Door right	1393	539	1218	340	11.50
		5*	TZB309L	Door left	1393	776 *²	1218	590	16.00
			TZB209R	Door right	1393	539	1218	340	11.50
TwinLine floor-standing cabinets, doors									
12	8	2	TZB212		1843	539	1668	340	15.60
		3	TZB312		1843	789	1668	590	20.70
		4*	TZB212L	Door left	1843	526 *²	1668	340	15.60
			TZB212R	Door right	1843	539	1668	340	15.40
		5*	TZB312L	Door left	1843	776 *²	1668	590	20.70
			TZB212R	Door right	1843	539	1668	340	15.40
		6*	TZB312L	Door left	1843	776 *²	1668	590	20.70
			TZB312R	Door right	1843	789	1668	590	19.90

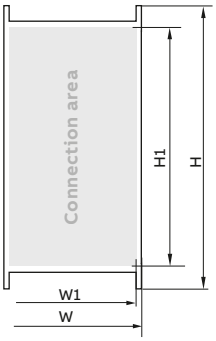
*Double-wing doors for all cabinets of a width of 4 panels and more
*² Dimensions incl. central door bar

Quick product references

Overall dimensions

TwinLine mounting plates

External dimensions / Usable connection area
Mounting plate

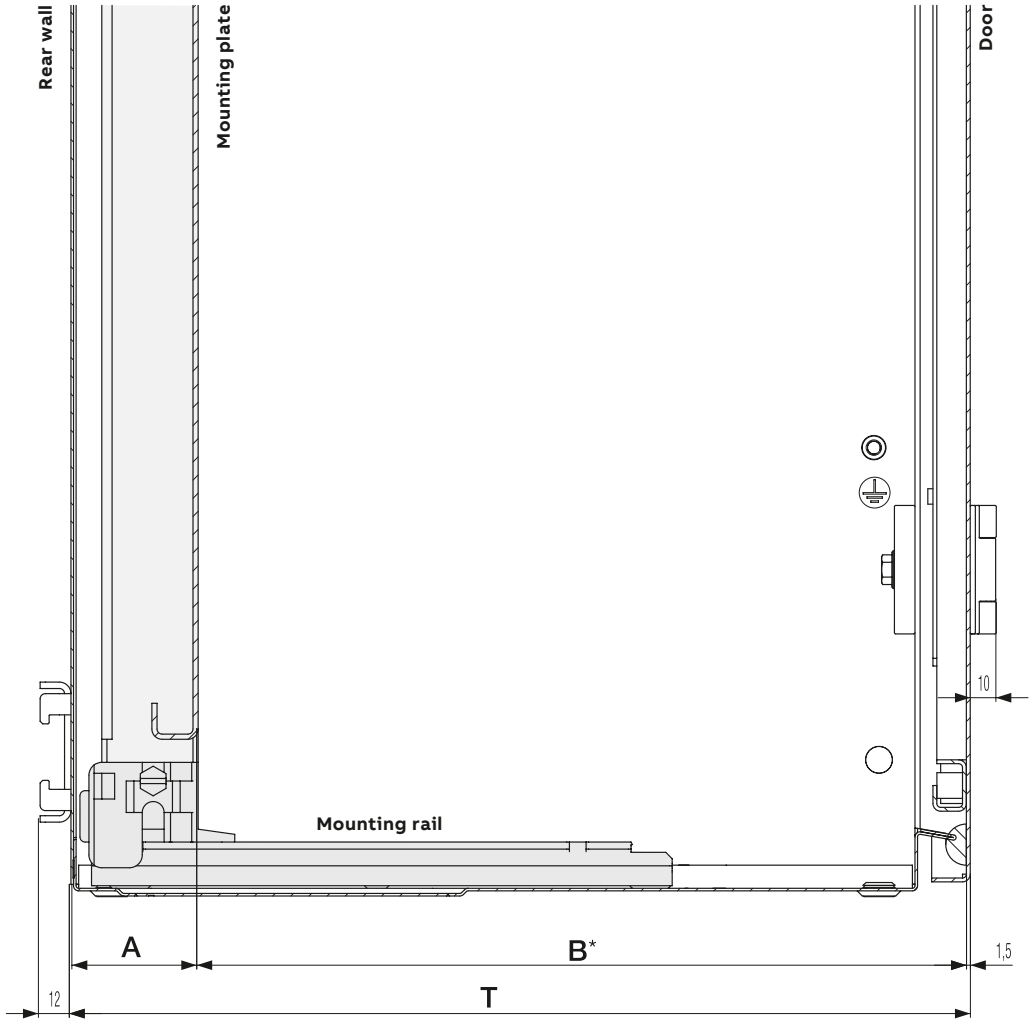


Height		Width		External dimensions in mm		Connection area in mm		Weight
GU	OH	PW	Type	H	W	H1	W1	in kg
Mounting plates for TwinLine wall-mounting cabinets ⏚								
4	0	1	TZM104	600	246	522	160	3.51
		2	TZM204	600	496	522	410	5.79
		3	TZM304	600	746	522	660	8.07
		4	TZM404	600	996	522	910	10.35
		5	TZM504	600	1246	522	1160	12.62
5	1	1	TZM105	750	246	672	160	4.43
		2	TZM205	750	496	672	410	7.30
		3	TZM305	750	746	672	660	10.17
		4	TZM405	750	996	672	910	13.03
		5	TZM505	750	1246	672	1160	15.90
6	2	1	TZM106	900	246	822	160	5.35
		2	TZM206	900	496	822	410	8.80
		3	TZM306	900	746	822	660	12.26
		4	TZM406	900	996	822	910	15.72
		5	TZM506	900	1246	822	1160	19.20
7	3	1	TZM107	1050	246	972	160	6.26
		2	TZM207	1050	496	972	410	10.31
		3	TZM307	1050	746	972	660	14.36
		4	TZM407	1050	996	972	910	18.40
		5	TZM507	1050	1246	972	1160	22.45
8	4	1	TZM108	1200	246	1122	160	7.18
		2	TZM208	1200	496	1122	410	11.82
		3	TZM308	1200	746	1122	660	16.45
		4	TZM408	1200	996	1122	910	21.09
		5	TZM508	1200	1246	1122	1160	25.72
9	5	1	TZM109	1350	246	1272	160	8.10
		2	TZM209	1350	496	1272	410	13.33
		3	TZM309	1350	746	1272	660	18.55
		4	TZM409	1350	996	1272	910	23.77
		5	TZM509	1350	1246	1272	1160	29.00
Mounting plates for TwinLine floor-standing cabinets ⏚								
12	8	1	RM18	1800	246	1722	160	10.80
		2	RM28	1800	496	1722	410	17.80
		3	RM38	1800	746	1722	660	21.00
		4	RM48	1800	996	1722	910	31.80

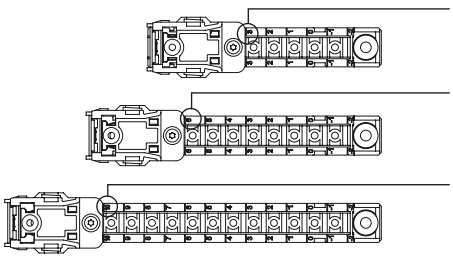
Quick product references

Overall dimensions

TwinLine Assembly with mounting plate



Mounting rail
Top view



Mounting rail for TwinLine-G
Position 3 / Installation position

Mounting rail for TwinLine-L
Position 6 / Installation position

Mounting rail for TwinLine-W
Position 10 / Installation position

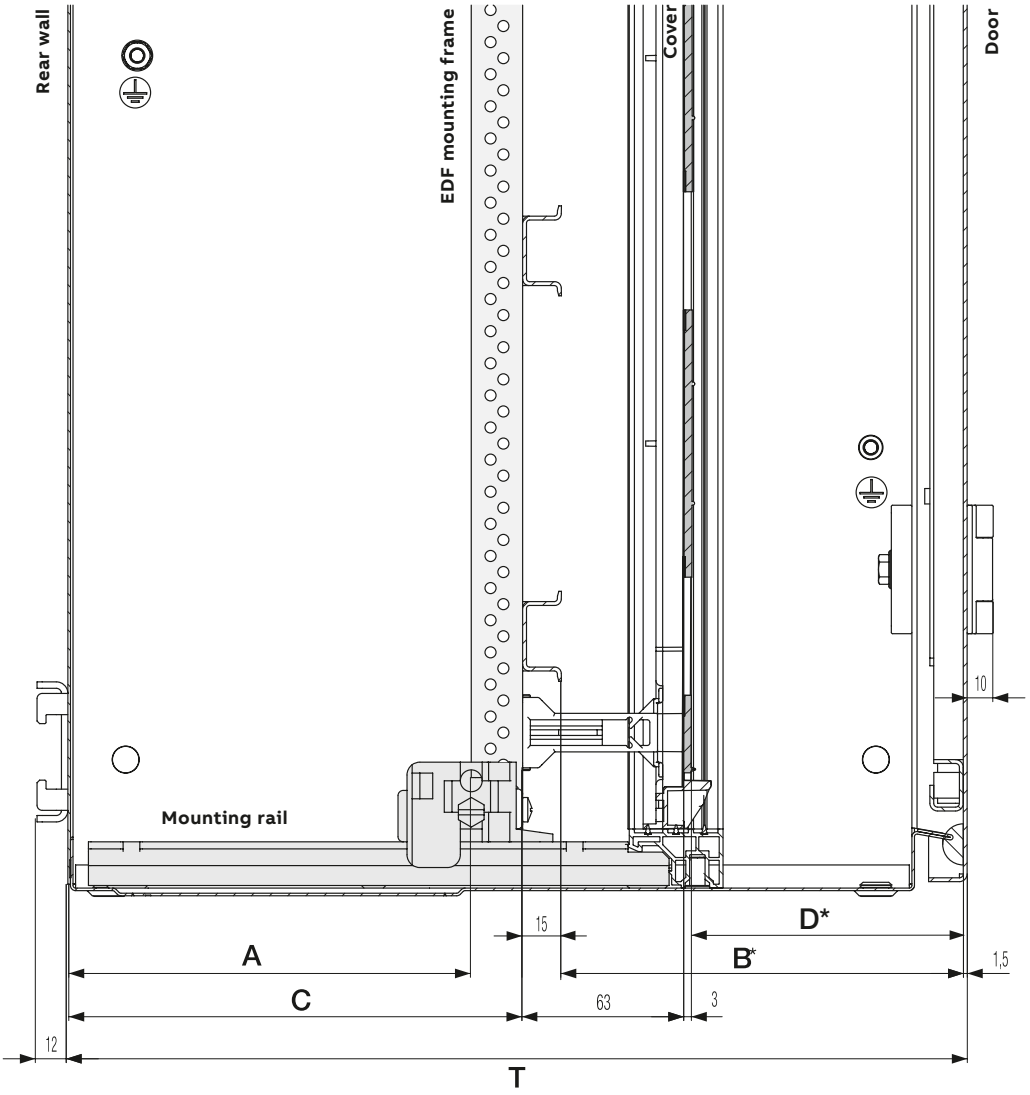
		A in mm for installation position												
Cabinet series	**Depth in mm**	**10**	**9**	**8**	**7**	**6**	**5**	**4**	**3**	**2**	**1**	**0**	**-1**	**-2**
TwinLine G	225	-	-	-	-	-	-	-	52.5	65	77.5	90	102.5	115
TwinLine L	275	-	-	-	-	50	62.5	75	87.5	100	112.5	125	137.5	150
TwinLine W	350	48.5	61	73.5	86	98.5	111	123.5	136	148.5	161	173.5	186	198.5
Cabinet series	**Depth in mm**	**B* in mm for installation position**												
TwinLine G	225	-	-	-	-	-	-	-	170	157.5	145	132.5	120	107.5
TwinLine L	275	-	-	-	-	222.5	210	197.5	185	172.5	160	147.5	135	122.5
TwinLine w	350	299	286.5	274	261.5	249	236.5	224	211.5	199	186.5	174	161.5	149

* Referred to the surface of the connection area; (see page155); outside the connection area this dimension is reduced by 35 mm
> Dimensions in mm

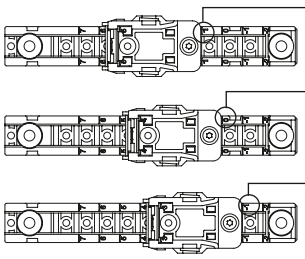
Quick product references

Overall dimensions

CombiLine modules on EDF mounting frame



Mounting rail
Top view



Mounting rail
Position 1

Mounting rail
Position 0 / as delivered / Installation position

Mounting rail
Position -1

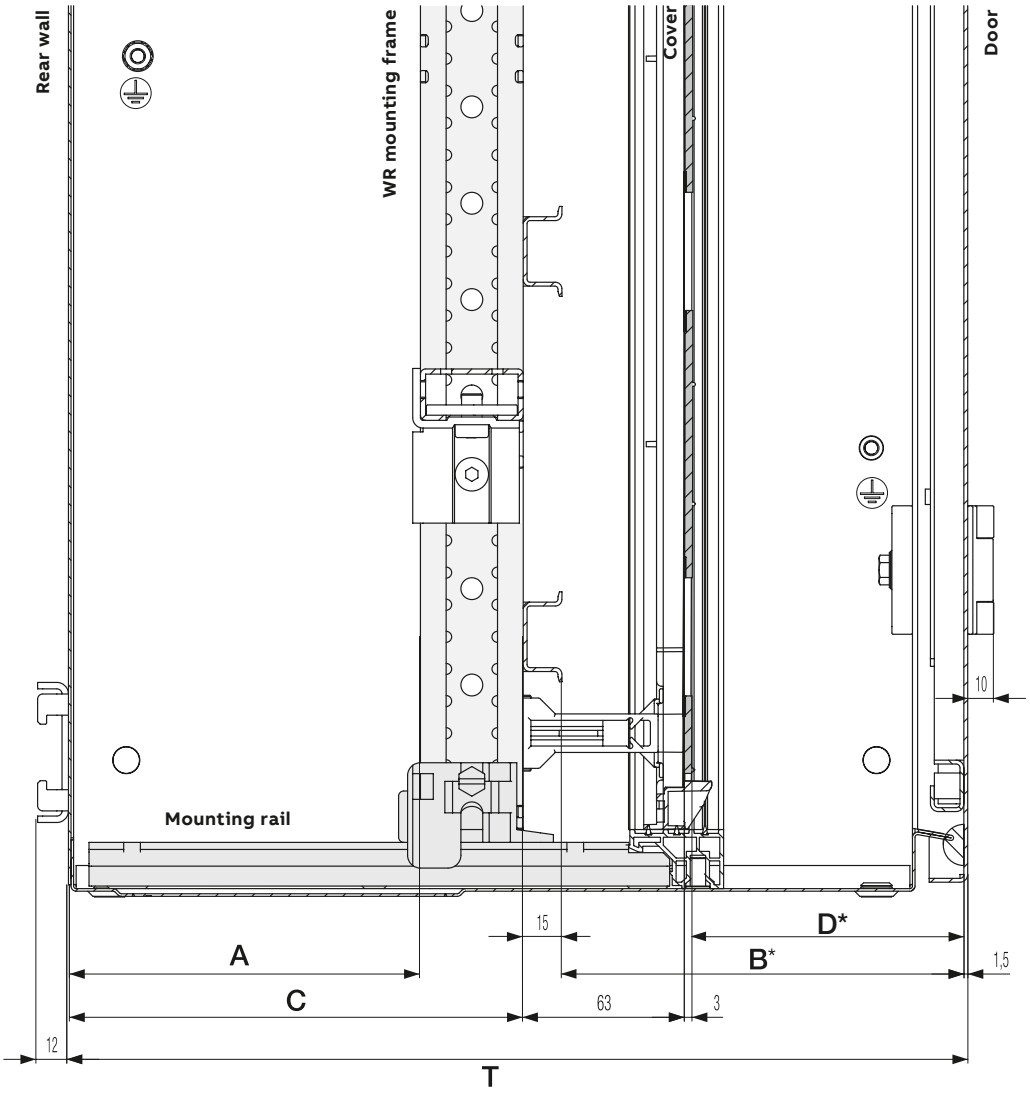
Cabinet series	Depth in mm	A in mm for installation part position			B in mm for installation position*			C in mm for installation position			D in mm for installation position*		
		1	0	-1	1	0	-1	1	0	-1	1	0	-1
TwinLine-G	225	60	72.5	85	127.5	115	102.5	80	92.5	105	76.5	64	51.5
TwinLine-L	275	95	107.5	120	142.5	130	117.5	115	127.5	140	91.5	79	66.5
TwinLine-W	350	143.5	156	168.5	169	156.5	144	163.5	176	188.5	117.5	105	92.5

* Referred to the surface of the connection area (see page 156); outside the connection area this dimension is reduced by 35 mm
> Dimensions in mm

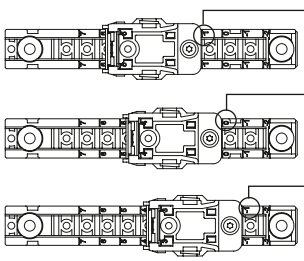
Quick product references

Overall dimensions

CombiLine modules on WR mounting frame



Mounting rail
Top view



Mounting rail
Position 1

Mounting rail
Position 0 / as delivered / Installation position

Mounting rail
Position -1

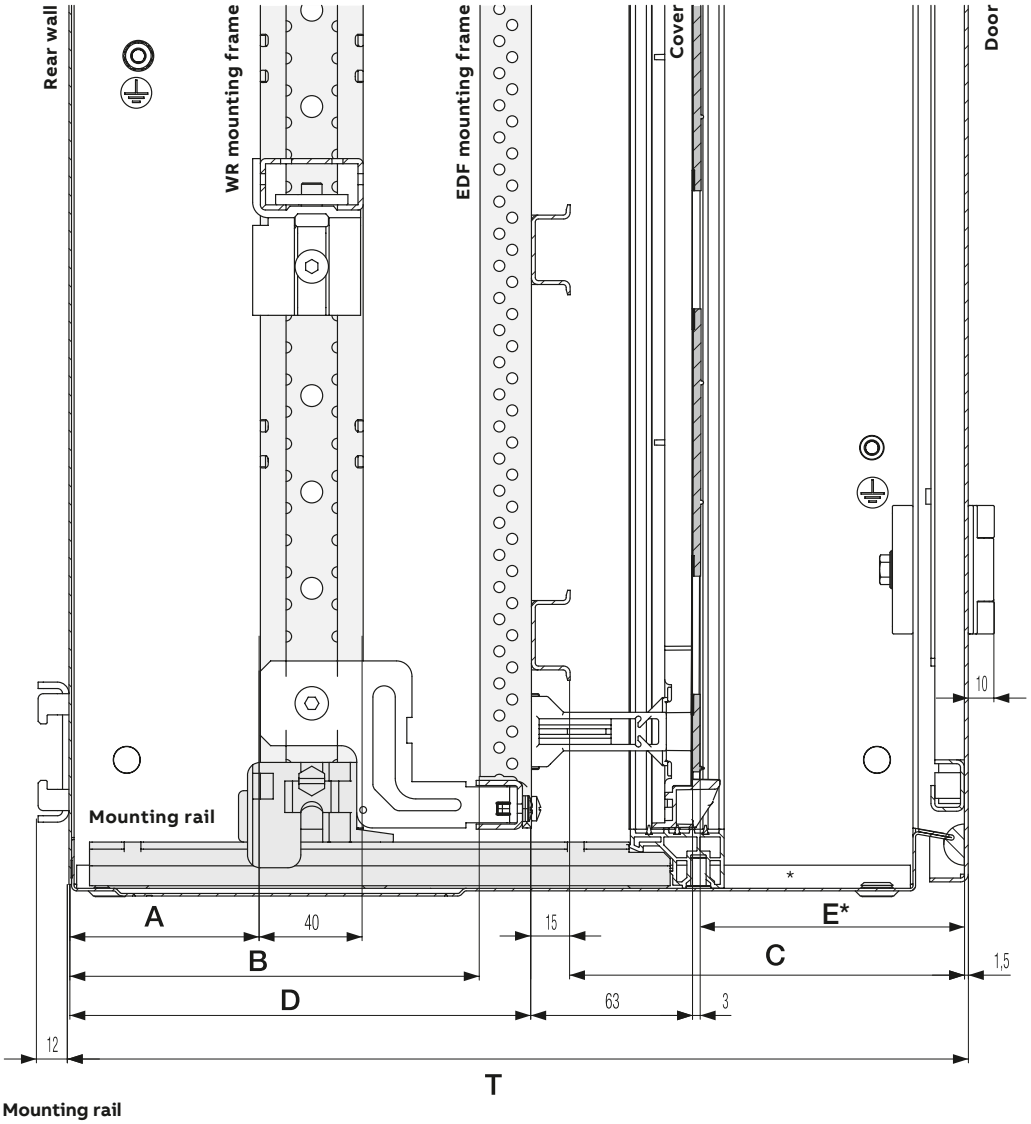
Schrankserie	Depth in mm	A in mm for installation part position			B in mm for installation position*			C in mm for installation position			D in mm for installation position*		
		1	0	-1	1	0	-1	1	0	-1	1	0	-1
TwinLine-G	225	40	52.5	65	127.5	115	102.5	80	92.5	105	76.5	64	51.5
TwinLine-L	275	75	87.5	100	142.5	130	117.5	115	127.5	140	91.5	79	66.5
TwinLine-W	350	123.5	136	148.5	169	156.5	144	163.5	176	188.5	117.5	105	92.5

* Referred to the surface of the connection area (see page 157); outside the connection area this dimension is reduced by 35 mm
> Dimensions in mm

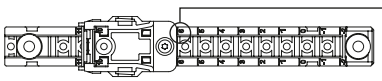
Quick product references

Overall dimensions

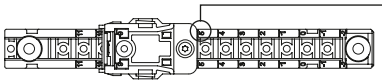
Assembly with EDF on WR mounting frame



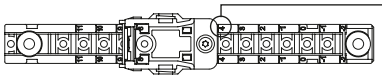
Mounting rail
Top view



Mounting rail
Position 6



Mounting rail
Position 5 / Installation position



Mounting rail
Installation osition 4

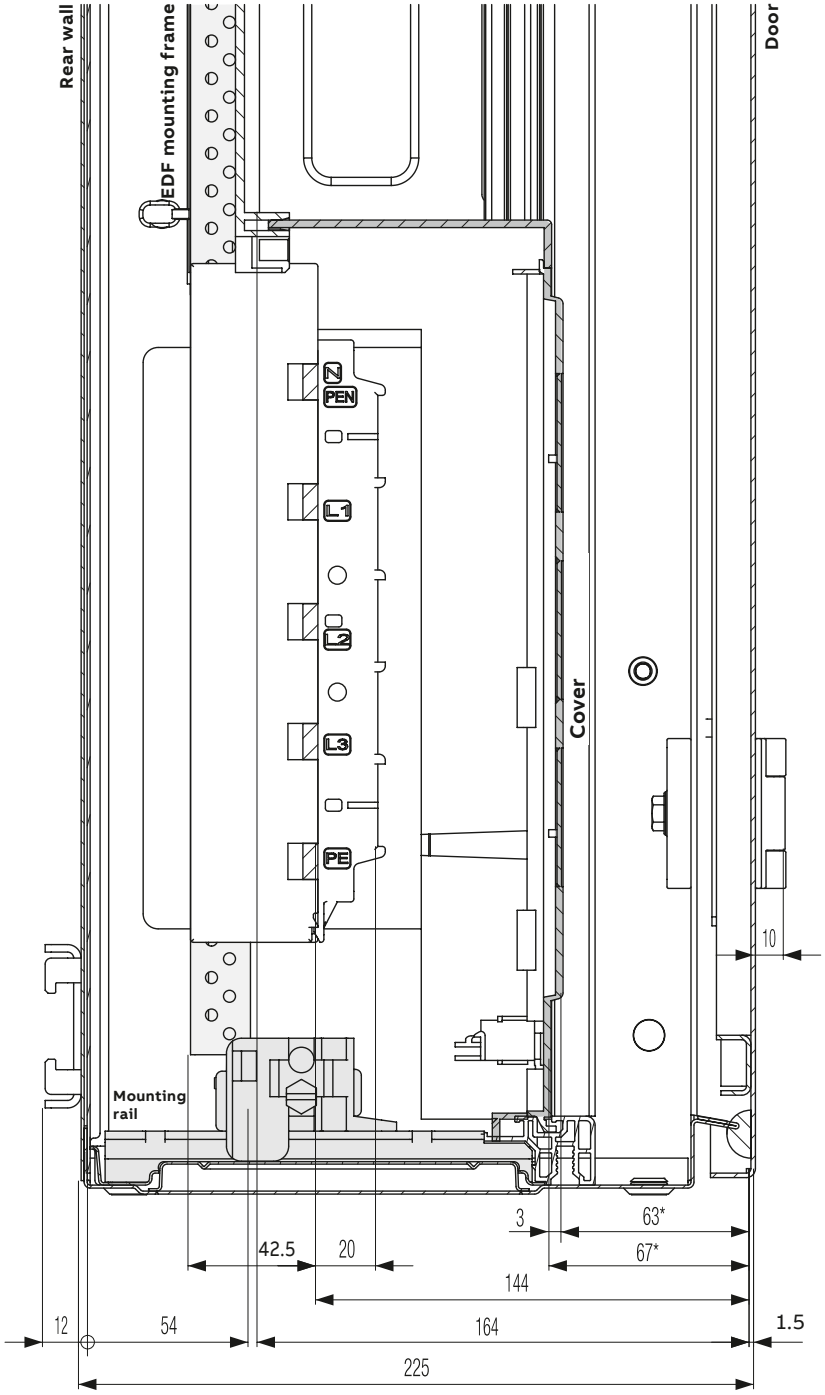
Schrankserie	Tiefe in mm	A in mm for installation part position			B in mm for installation position			C in mm for installation position*			D in mm for installation position			E in mm for installation position*		
		6	5	4	6	5	4	6	5	4	6	5	4	6	5	4
TwinLine-L	275	12.5	25	37.5	98	110.5	123	139.5	127	114.5	117.5	130	142.5	88.5	76	63.5
TwinLine-W	350	61	73.5	86	146.5	159	171.5	165.5	153	140.5	166.5	179	191.5	114.5	102	89.5

* Referred to the surface of the connection area (see page 158); outside the connection area this dimension is reduced by 35 mm
> Dimensions in mm

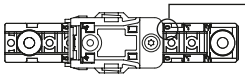
Quick product references

Overall dimensions

Assembly with meter panel for TwinLine-G



Mounting rail
Top view



Mounting rail
Position 0 / as delivered

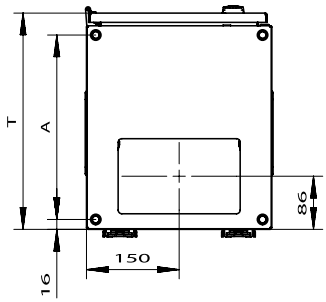
* Referred to the surface of the connection area (see page 159); outside the connection area this dimension is reduced by 35 mm
> Dimensions in mm

Quick product references

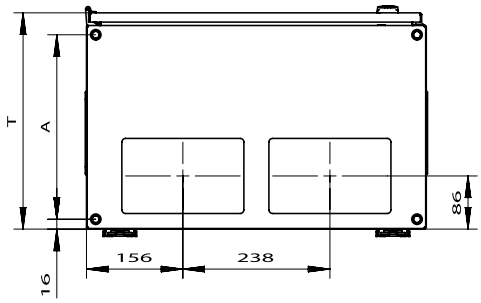
Overall dimensions

TwinLine Top view / side flange knockout, top and bottom

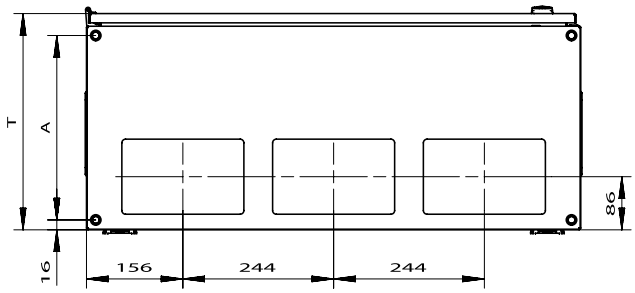
TG1...
TL1...
TW1...



TG2...
TL2...
TW2...



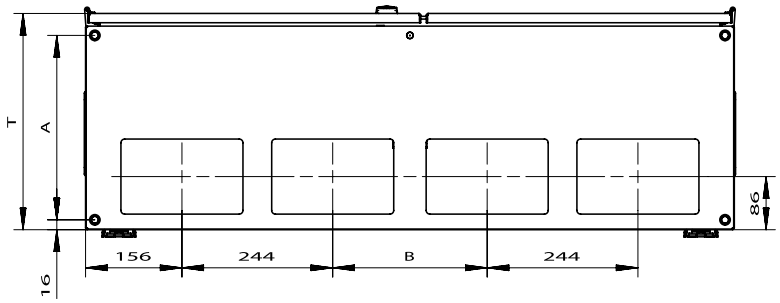
TG3...
TL3...
TW3...



TG4...
TL4...
TW4....

TG5...
TL5...
TW5....

TG6...
TL6...
TW6....

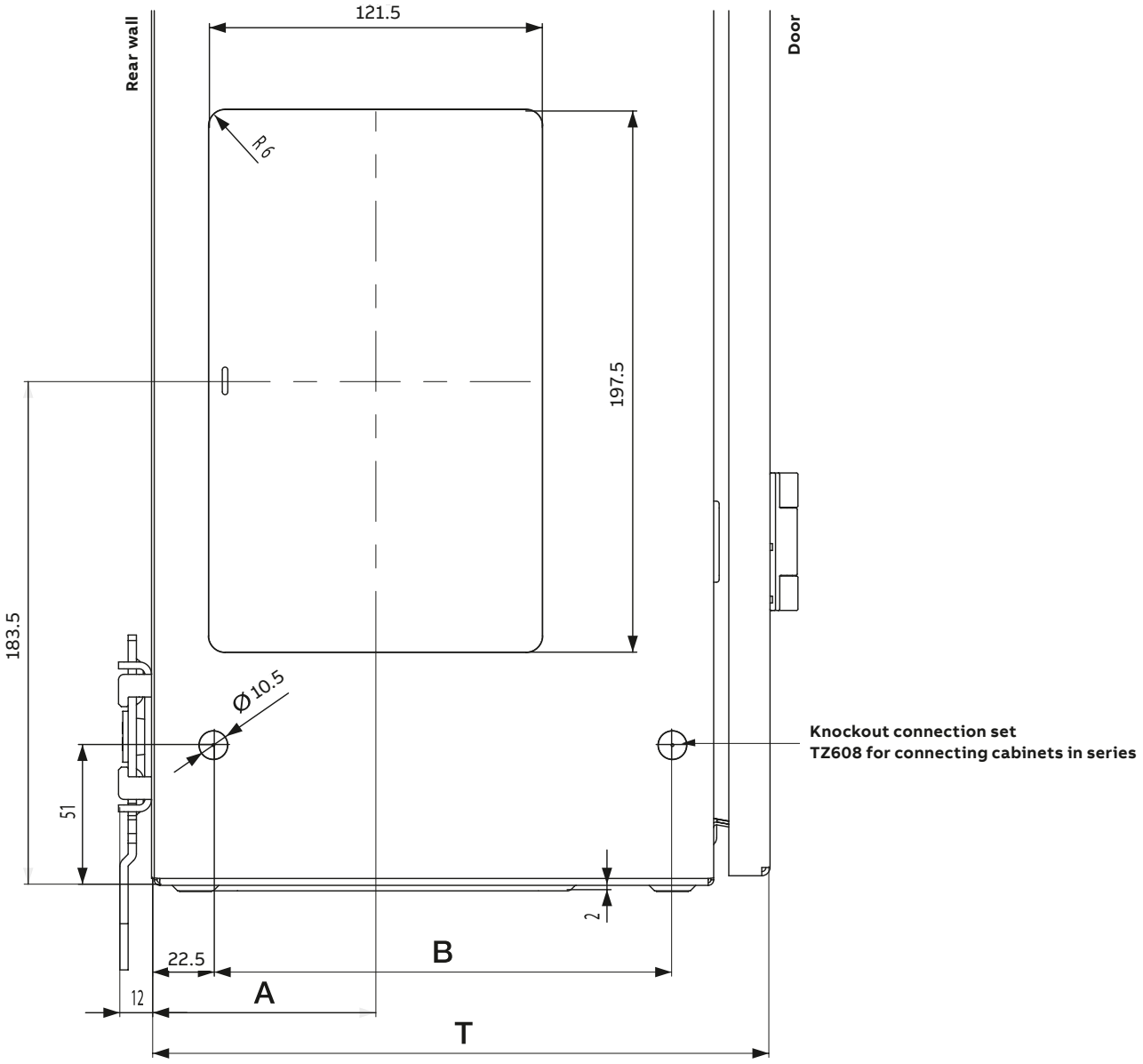


Cabinet series	Depth in mm	A in mm	B in mm / 4 panel wide	B in mm / 5 panel wide	B in mm / 6 panel wide
TwinLine-G	225	173.5			
TwinLine-L	275	223.5	1 x 250 (250)	2 x 250 (500)	3 x 250 (750)
TwinLine-W	350	298.5			

Quick product references

Overall dimensions

TwinLine Side view / side flange knockout, top and bottom



Cabinet series	Depth in mm	A in mm	B in mm
TwinLine-G	225	80.5	167
TwinLine-L	275	106.5	217
TwinLine-W	350	154.5	292

Quick product references

MCBs and RCDs worldwide marks and approvals

This is the present situation regarding worldwide marks and approvals for ABB System pro M compact range devices.
Although some products already obtained some approvals or certificates, they don't necessarily bear the related marks on the product.

For detailed list of approval, please check our product detail page and download section

The F 200 range has obtained the EPD (Environmental Product Declaration), according to ISO 14040.

EPD

This product/service has a
CERTIFIED ENVIRONMENTAL PRODUCT DECLARATION
describing information about environmental performance, contents and recycling which has been controlled and verified by Rina according to MSR 1999:2
Registration number: S-P 00080 and S-P 00081
More information on the Internet : http//www.environdec.com

	AENOR - Spain	BBJ - Poland	BSMI - Taiwan	CCC - China
S 200	■ S 200	■ S 200	■ S 200	■ S 200
S 200 M	■ S 200 M	■ S 200 M	■ S 200 M	■ S 200 M
S 200 M UC				
S 200 P	■ S 200 P	■ S 200 P		■ S 200 P
S 300 P			■ S 300 P	■ S 300 P
S 200 S				
S 200 U				■ S 200 U
S 200 UP				■ S 200 UP
S 200 UDC				
S 200 MR / S 200 PR				
SU 200 MR / SU 200 PR				
SN 201				■ SN 201
S 200 80 - 100 A				■ S 200 80 - 100 A
S 750 DR				
S400M				■ S400M ⑲
S 800*				■ S 800
F 200	■ F 200		■ F 200 ③	■ F 200 ③
F-ATI Test				
F-ARI Test				
DDA 200				
DS 200				
DS201				■ DS201
DS202C				
DS203NC				■ DS203NC
DDA 800				
SN201-S, SN201-IH				■ SN201-S, SN201-IH
DS401/402				■ DS401/402
S200C				■ S200C

Legend:
■ Approved
● Waiting for approval
① Supplementary protection
② Branch circuit protection
③ Available for F200 type for overseas markets
⑤ Only DS202C M Type A and APR
The indicated approvals generally cover all available approvals worldwide. To verify the approval status in your country please contact your LSO.
* For further details on worldwide marks & approvals for specific S800 ranges please visit the dedicated download section in our websites.

CEBEC - Belgium	CERTIF - Portugal	CSA - Canada	DEMKO - Denmark	EZU - Czech Republic	FIMKO - Finland
■ S 200	■ S 200		■ S 200	■ S 200	■ S 200
■ S 200M	■ S 200M	■ S 200M ①	■ S 200M	■ S 200M	■ S 200M
■ S 200 P	■ S 200 P	■ S 200 P (≤ 25 A) ①	■ S 200 P	■ S 200 P	■ S 200 P
■ S 300 P	■ S 300 P	■ S 300 P ①		■ S 300 P	■ S 300 P
		■ S 200 U ②			
		■ S 200 UP ②			
		■ S 200 UDC ②			
		■ S 200 MR / S 200 PR ①			
		■ SU 200 MR / SU 200 PR ②			
■ F 200	■ F 200				■ F 200
		■ DS201 UL			

Quick product references

MCBs and RCDs worldwide marks and approvals

	EAC - Russia	IIS - Israel	IMQ - Italy	IMQ CSV - Italy
S 200	■ S 200	■ S 200	■ S 200	
S 200 M	■ S 200 M		■ S 200 M	
S 200 M UC				
S 200 P	■ S 200 P		■ S 200 P	
S 300 P	■ S 300 P		■ S 300 P	
S 200 S			● S 200 S	
S 200 U				
S 200 UP				
S 200 UDC				
S 200 MR / S 200 PR				
SU 200 MR / SU 200 PR				
SN 201		■ SN 201	■ SN 201	
S 200 80 - 100 A	■ S 200 80 - 100 A		■ S 200 80 - 100 A	
S 750 DR	■ S 750 DR			
S400M	■ S400M			
S 800*	■ S 800			
F 200	■ F 200	■ F 200	■ F 200	
F-ATI Test				
F-ARI Test				■ F-ARI Test
DDA 200	■ DDA 200	■ DDA 200	■ DDA 200	
DS 200	■ DS 200	■ DS 200	■ DS 200	
DS201	■ DS201	■ DS201	■ DS201	
DS202C	■ DS202C		■ DS202C	
DS203NC	■ DS203NC	■ DS203NC	■ DS203NC	
DDA 800				
F2C..	■ F2C..			
S 290 accessories	■ S 290 accessories			
DS401/402	■ DS401/402			
S-ARC1	■ S-ARC1		■ S-ARC1	
DS-ARC1	■ DS-ARC1		■ DS-ARC1	
S200C			■ S200C	

Legend:
■ Approved
● Waiting for approval
① Supplementary protection
② Branch circuit protection
③ Available for F200 type for overseas markets
④ Only S 500-K range
⑤ Only DS202C M Type A and APR
⑥ Not available for F200 left neutral
⑦ Only DS201 (2019) APR and DS201 neutral left series
The indicated approvals generally cover all available approvals worldwide. To verify the approval status in your country please contact your LSO.
* For further details on worldwide marks & approvals for specific S800 ranges please visit the dedicated download section in our websites.

IRAM - Argentina	KC- South Korea	KEMA - Netherland	LCIE - France	NEMKO - Norway	OVE - Austria
■ S 200	■ S 200	■ S 200	■ S 200	■ S 200	■ S 200
		■ S 200 M	■ S 200 M	■ S 200 M	■ S 200 M
		■ S 200 P	■ S 200 P	■ S 200 P	■ S 200 P
	■ S 300 P	■ S 300 P	■ S 300 P	■ S 300 P	■ S 300 P
		● S 200 S	■ S 200 S		■ S 200 S
		■ SN 201	■ SN 201		
	■ S 800				
■ F 200 ③		■ F 200	■ F 200		■ F 200
			■ DDA 200		
			■ DS 200		
	■ DS201	■ DS201	■ DS201 ⑦		■ DS201
	■ DS202C		■ DS202C		
		■ DS203NC			
■ S-ARC1	■ S-ARC1				
	■ DS-ARC1				
■ S200C		■ S200C	■ S200C		

Quick product references

MCBs and RCDs worldwide marks and approvals

	HDB/PSB - Singapore	SABS - South Africa	SEMKO - Sweden	SEV - Switzerland
S 200	■ S 200	■ S 200	■ S 200	■ S 200
S 200 M	■ S 200 M		■ S 200 M	■ S 200 M
S 200 M UC				
S 200 P			■ S 200 P	■ S 200 P
S 300 P			■ S 300 P	■ S 300 P
S 200 S				● S 200 S
S 200 U				
S 200 UP				
S 200 UDC				
S 200 MR / S 200 PR				
SU 200 MR / SU 200 PR				
SN 201				
S 200 80 - 100 A		■ S 200 80 - 100 A		
S 700				
S 750 DR				
S400E				■ S400E
S400M				■ S400M
S 800*				■ S 800
F 200	■ F 200 ③	■ F 200 ③		■ F 200
F-ATI Test				
F-ARI Test				
DDA 200		■ DDA 200		
DS 200				
DS201				■ DS201
DS202C				
DS203NC				
DSE201 - DSE201 M				
DDA 800				
DS401/402			■ DS401/402	■ DS401/402
S-ARC1				
DS-ARC1				
S200C				

Legend:
■ Approved
● Waiting for approval
① Supplementary protection
② Branch circuit protection
③ Available for F200 type for overseas markets
④ Only S 500-K range
⑤ Only DS202C M Type A and APR
⑥ not available for F200 left neutral
The indicated approvals generally cover all available approvals worldwide. To verify the approval status in your country please contact your LSO.
* For further details on worldwide marks & approvals for specific S800 ranges please visit the dedicated download section in our websites.

SIQ - Slovenia	SIRIM - Malaysia	UL - USA			VDE - Germany
■ S 200	■ S 200		■ S 200 ①		■ S 200
■ S 200 M	■ S 200 M	■ S 200 M ①			■ S 200 M
					■ S 200 M UC
■ S 200 P			■ S 200 P ①		■ S 200 P
			■ S 300 P ①		■ S 300 P
					■ S 200 S
				■ S 200 U ②	
				■ S 200 UP ②	
				■ S 200 UDC ②	
		■ S 200 MR / S 200 PR ①			■ S 200 MR / S 200 PR
				■ SU 200 MR / SU 200 PR ②	■ SU 200 MR / SU 200 PR
					■ S 700
					■ S 750 DR
					■ S400E
					■ S400M ⑲
		■ S 800		■ S 800	■ S 800
	■ F 200 ③	■ F 200 ⑥			■ F 200
					■ F-ATI Test
					■ DS 200
		■ DS201 UL			■ DS201
					■ DS202C
					■ DS203NC
					■ DS401/402
					■ S-ARC1
					■ DS-ARC1
					■ S200C

Quick product references

MCBs and RCDs worldwide marks and approvals

	RIVER	MARINE	MARINE
	RRR - Russia	ABS - USA	DNV-GL - Germany
S 200		■ S 200	■ S 200
S 200M		■ S 200M	■ S 200M
S 200 MUC			
S 200 P			
S 300 P			■ S 300 P
S 200 S			
S 200 U			
S 200 UP			
S 200 UDC			
S 200 MR / S 200 PR			
SU 200 MR / SU 200 PR			
SN 201			■ SN 201
S 200 80 - 100 A			
S 700			
S 750 DR			
S400E			
S400M			■ S400M
S 800*			■ S 800
F 200			■ F 200 ③
F 204 B			
F-ATI Test			
F-ARI Test			
DDA 200			
DS 200			
DS201		■ DS201, DS201 M, DS201 M 110 V	■ DS201, DS201 M, DS201 M 110 V
DS202C		■ DS202C M, DS202C M 110 V	■ DS202C M, DS202C M 110 V
DS203NC			
DSE201 - DSE201 M			■ DSE201 - DSE201 M
DS 271			
DDA 800			
S200C			

Legend:
■ Approved
● Waiting for approval
① Supplementary protection
② Branch circuit protection
③ Available for F200 type for overseas markets
⑤ Only DS202C M Type A and APR
⑥ Not available for F200 left neutral
The indicated approvals generally cover all available approvals worldwide. To verify the approval status in your country please contact your LSO.
* For further details on worldwide marks & approvals for specific S800 ranges please visit the dedicated download section in our websites.

MARINE	MARINE	MARINE
LRS - Great Britain	RINA - Italy	RMRS - Russia
■ S 200	■ S 200	■ S 200
■ S 200 M	■ S 200 M	■ S 200 M
■ S 200 P	■ S 200 P	■ S 200 P
■ S 300 P	■ S 300 P	■ S 300 P
■ S 800	■ S 800	■ S 800
	■ DDA 200 110 V	
		■ DS 200
	■ DS201 M 110 V	■ DS201, DS201 M, DS201 M 110 V
	■ DS202C M, DS202C M 110 V	■ DS202C M, DS202C M 110 V
■ S200C	■ S200C	

Quick product references

MDRCs worldwide marks and approvals

	BSI UK	CCC China	CEBEC Belgium	ENEC Europe	EAC Russia	GOST Russia	IMQ Italy	KEMA Netherland	NF France
OVR		■ OVR QS for AC (CQC)			■ OVR T1-T2, T2 and T2-T3	■ OVR T2			■ OVR T1-T2, T2 and T2-T3
RD						■ RD			
TR-TRM						■ TR-TRM			
E 90		■ E90 ③, E90h ③ E90 PV*			■ E90, E90h, E90 PV*		■ E90 ③, E90h ③		■ E90 ⑤, E90h ⑥
E90 50/125		■ E90 50/125			■ E90 50/125				
E90									
E 200		■ E 200			■ E 200			■ E 200	
SD 200		■ SD 200			■ SD 200			■ SD 200	
SHD 200		■ SHD 200			■ SHD 200			■ SHD 200	
E210		■ E210 ②			■ E210				
ESB		■ ESB							
EN		■ EN							
E290					■ E290				
E297					■ E297				
E 260					■ E 260				
E 234		■ E 234				■ E 234			
AG					■ AG				
DBT					■ DBT				
E 232					■ E 232				

Legend:
■ Approved whole range
● Waiting for approval
① Except for ESB/EN 20
② For series E219 CCC mark not needed
③ Just no LED versions
⑤ Version without neutral
⑥ Dedicated range with neutral on left
⑦ IMQ available for TM up to 30 VA
⑧ VDE available only on M1175 (standard grey version) and M1175-C (with cover)
* E90 PV 1000 V DC only

SEV Swiss	UL/CSA USA/Canada	UL/CSA USA/Canada	VDE Germany	BV/F France	GL/D Germany	LRS Great Britain	RINA Italy	RMRS Russia	KR Korea
			■ OVR T2 40 275						
	■ E90 PV, E90 CC	■ E90		■ E90, E90h, E90 PV*		■ E90 ③, E90h ③	■ E90 ③, E90h ③		■ E90
		■ E90 50/125		■ E90 50/125		■ E90 50/125	■ E90 50/125		
	■ E90 J								
			■ E 200						
			■ SD 200						
			■ SHD 200						
		■ E210	■ E210						
		■ ESB		■ ESB ①	■ ESB ①				
		■ EN		■ EN ①	■ EN ①				
			■ E290				■ E290 60Hz		
			■ E297						
					■ E 260				
		■ E 234							
			■ E 232						

Quick product references

MDRCs worldwide marks and approvals

	BSI UK	CCC China	CEBEC Belgium	ENEC Europe	EAC Russia	GOST Russia	IMQ Italy	KEMA Netherland	NF France
TL Line					■ TL Line				
LCR						■ LCR			
SQZ3						■ SQZ3			
CT / CTA / TRFM						■ CT/CTA/ TRFM			
MCA/MCV						■ MCA/MCV			
HMT						■ HMT			
TM						■ TM	■ TM ⑦		
TS						■ TS			
TS-C				■ TS-C		■ TS-C			
TSM/TSR						■ TSM/TSR			
SM/RM						■ SM/RM			
M1170						■ M1170			
M1173						■ M1173	■ M1173		
M1174			■ M1174			■ M1174			■ M1174
M1175						■ M1175			
M1363	■ M1363								
M1011									
TM-C, TM-I, TM-S				■ TM-C, TM-I, TM-S		■ TM-C, TM-I, TM-S			

Legend:
■ Approved whole range
● Waiting for approval
① Except for ESB/EN 20
② For series E219 CCC mark not needed
③ Just no LED versions
④ Dedicated range for chinese market
⑤ Version without neutral
⑥ Dedicated rang with neutral on left
⑨ E291S in preparation: will be available in 2016

SEV Swiss	UL/CSA USA/Canada	UL/CSA USA/Canada	VDE Germany	BV/F France	GL/D Germany	LRS Great Britain	RINA Italy	RMRS Russia	KR Korea
			■ TS						
			■ M1175 ⑧						
■ M1011									
		■ TM-C, TM-I, TM-S							
							■ TM-C		

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