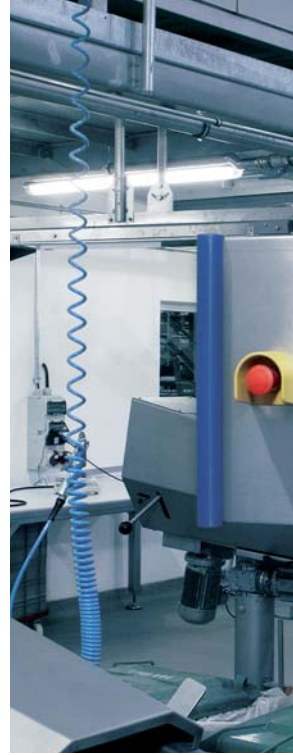
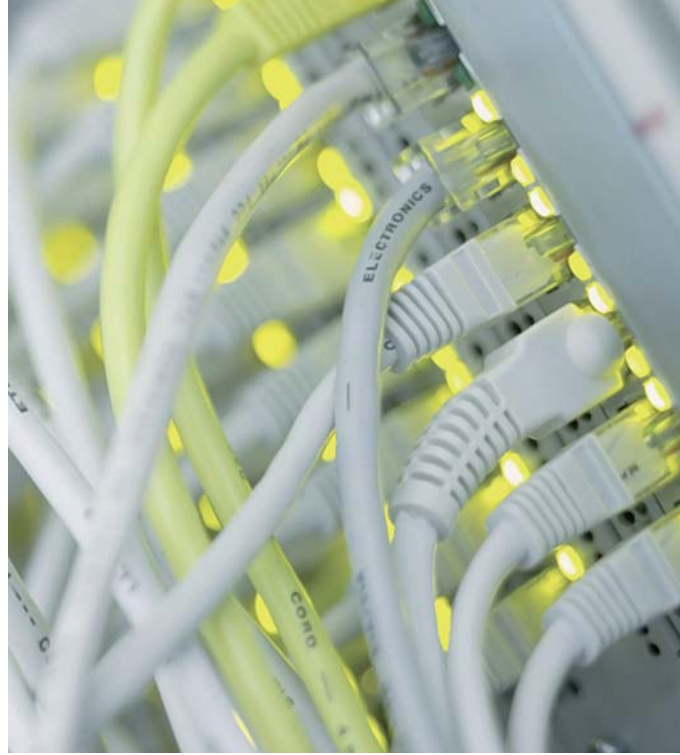


# xComfort Compact Distribution Boxes - Home game for a safe electrical installation system



**EATON**

*Powering Business Worldwide*



# Powering electrical systems worldwide

## Buildings

- Residential
- Healthcare
- Education
- Commercial offices
- Retail
- Public sector
- Airports
  
- Electrical distribution solutions for safe and efficient power delivery
- Power quality systems for uptime and reliability
- Power metering and monitoring to add intelligence and save costs
- Industrial control products for HVAC applications

## Information Technology

- Data centers
- Telecommunication
- Networks
- Computer rooms
  
- World's most efficient line of UPSs to reduce footprint and save energy
- Reliable power systems with inherent redundancy to improve availability
- Power metering and monitoring to diagnose problems and lower costs
- Local service and support for quick response



## Public and private sectors

Buildings, Information Technology, Industrial & Machinery, Energy & Utilities  
We provide reliable, efficient and safe power management.

## Industrial & Machinery

- Manufacturing
- Agriculture
- Construction
- Mining and metals
- Processing:
  - Petrochemicals
  - Pharmaceuticals
  - Pulp and paper
- Material handling
  
- Electrical distribution equipment to deliver power throughout the enterprise
- Control & automation and power quality equipment for process control
- Power metering and monitoring to manage energy costs and uptime
- Power and motion control products to optimize productivity, reliability, safety and operator comfort

## Energy & Utilities

- Renewable energy:
  - Solar
  - Wind
  - Hydropower
- Traditional energy:
  - Oil
  - Gas
- Smart grid
- Water and waste water
  
- Electrical balance of system and turnkey services for residential, utility and commercial solar installations
- Power distribution equipment, control components and system installations services
- Network power grid technology for intelligent data, lower costs and crew/public safety



**Yesterday, the future was yet to come.  
Today, it's already here.**

## The future has already begun.

For us, innovation is tradition: in 1957 Eaton's Moeller segment developed the first fault current protection switch, and with this, a new era of electrical safety engineering began. And now, Eaton is still ahead of its time: the new digital switchgear range in the Eaton xEffect series communicates potential problems in advance and sets new standards in precision, security and convenient service.

### **Maximal safety with optimal ease**

Modern Residual Current Circuit Breakers (RCCB) protect people and technical equipment conveniently and reliably against faulty currents. The digital RCCB from the xEffect series do more than just switch off. They monitor electrical installations and give advance warning of critical current flows. So plant / factory shutdowns – and the resulting costs – can be avoided.

### **Precise Release – Highest Reliability**

Short-time fault currents or other briefly occurring malfunctions do not cause the digital protection switch to shut down, thanks to the short time delay and optimized tripping threshold. So the electrical installation is optimally protected against power failures.

### **Easy and adaptable installation for fast modernization**

The big Eaton Plus: It is very easy to upgrade a switchboard! Simply replace the RCCB – and you have all advantages of digitalization.

# xComfort Compact Distribution Boxes

## Micro Compact distribution boxes



The smallest distribution board of this product family fascinates the user especially with its extremely fast way of attaching the device cover which automatically snaps into position thanks to an innovative locking mechanism. So screwing down or unscrewing the device cover is no longer necessary at all. For up to 2 or 4 module units

### Benefit:

- Time-saving thanks to the extremely fast way of attaching the device cover using an innovative locking mechanism.

### Features:

- Degree of protection IP30 (IK05)
- Surface-mounted
- Protection class II, totally insulated
- 1-row, 2 and 4 module units
- No tools required for enclosure assembly
- Support rail made of plastic
- Enclosure made of high-quality ABS plastic
- No window
- Glow wire test 650°C
- Pre-punched metric areas for cable entry all around
- Body RAL 9003
- Possibility of direct fixing on the wall, no need to drill holes into the enclosure

## Mini Compact distribution boxes



It is the diversity of this member of the family that makes it so outstanding. An overall sufficient number of articles can be ordered to meet all the requirements of real life situations, from 2 to 6 module units, with or without a window, with or without connection terminals, and with a top-hung window as an option for retrofitting.

### Benefit:

- Due to its diversity, it is the ideal solution for any application – available with or without connection terminals and with a top-hung window suitable for retrofitting.

### Features:

- Degree of protection IP30 or IP20 (IK05)
- Surface-mounted
- Protection class II, totally insulated
- 1-row, 2, 3, 4, 5 and 6 TE
- Support rail made of plastic
- Enclosure made of high-quality ABS plastic
- Either with or without a window
- Window lead-sealable
- Glow wire test 650°C
- Pre-punched metric areas for cable entry all around
- Body RAL 9003
- Possibility of direct fixing on the wall, no need to drill holes into the enclosure

## ECO Compact distribution boxes



Both as a surface-mounted and flush-mounted compact distribution board, this product series made of plastic attracts the customers' attention above all through its slim design and its interesting price/performance ratio. Truly classic products are its 12-module-unit versions which are usually used in hotel projects.

### Benefit:

- Attractive price-performance ratio
- Slim design

### Features:

- Degree of protection IP40
- Surface mounted / flush: 1-row, 5, 8, 12 and 18 module units
- Surface mounted / flush: 2-rows, 24 and 36 module units
- Surface mounted / flush: 3-rows, 36 module units
- Surface-mounted: 3-rows, 54 module units
- Protection class II
- Glow wire test 850°C

# xComfort Compact Distribution Boxes

## KLV Compact distribution boxes



The second generation of the successful KLV compact distribution board series provides even more flexibility. The product family has now been complemented by new flush-mounted and hollow-wall distribution boards as well as by expandable KSK combined plug-type terminals included as standard. Additional cable holders allow for neat wiring. The stable device cover offers optimal protection for the operator, which is especially important for the large 4-row version. The highlight is the new 3D plaster compensation which not only provides for corrective compensation in X and Y direction, but also for depth compensation for up to 18mm over the entire door frame. So any differences in the wall surface can be compensated in a time-saving way and without any additional parts thanks to this new standard feature. Another characteristic aspect is the version with a unique, super-flat door frame design which makes the compact installation distribution board almost invisible. The new offer is completed by integrated marking slots in the wall pan, a bubble level for fast alignment, 90° quick-acting closures at the device cover and many new accessories offered as options to add even more value. Thanks to its certification as a compact installation distribution board according to IEC/EN 60670-24 as well as to EN 62208, the KLV compact distribution board is the first choice for both small and large projects.

## Projects - form of delivery 4PR

The second generation of the KLV compact distribution board series is also offered as a new project delivery form 4PR, which includes both the one-level and the two-level package.

While the one-level package represents the standard configuration including the wall pan, the two-level package optionally includes the doors/frames in the required RAL colour or with ventilation slots. So large projects, for example, can be executed using standard finishes or individually selected colour options.



### Benefit:

- Clearly structured wiring thanks to additional cable holders
- Optimal protection for the operator thanks to the stable device cover
- Easy and time-saving to mount thanks to
  - 3D plaster compensation
  - Integrated marking slots
  - Bubble level for fast alignment, and quick-acting closures at the device cover

### Features:

- Degree of protection IP30
- 1 to 4 rows, 12 module units and 2 spare MUs in each row
- Multimedia variants
- Hollow-wall and flush-mounted versions
- Flat and super flat door design
- Integrated spirit level
- 3D plaster compensation
- Terminals for neutral and protective conductors
- N-FI expansion terminal (FI = RCD = Residual Current Device)
- Pre-punched cable entries on all sides
- Protection class II, fully insulated
- Door and cover frame, sheet steel RAL 9016
- Low halogen level

# xComfort Compact Distribution Boxes

## KLV Multimedia DBs



The second generation of the KLV compact distribution board series now has a new family member – the multi-media distribution board. Equipped with the same enclosure features as the energy KLV distribution board, the multi-media distribution board meets the requirements of the new IEC/EN 60670-24 directive for multi-media applications in GP standard. Its high-quality basic equipment includes a carrier rail for patch modules, a micro-perforated mounting plate, device holders and a double power-socket, and it is completed by connection brackets for interlinking the wall pans in pairs.

KLV multi-media distribution boards are available in a normal-flat (F) as well as in a unique super-flat (SF) version. The doors come with ventilation systems for improved heat exchange. Like the energy distribution board, the multi-media KLV compact distribution board also includes the 3D plaster compensation in its scope of delivery.

### Benefit:

- Same equipment as the KLV compact distribution board
- High-quality basic equipment with a carrier rail for patch modules, a micro-perforated mounting plate, device holders and a double power-socket
- Improved heat exchange thanks to doors equipped with ventilation systems

### Features:

- Degree of protection IP30
- 3 to 4 rows
- Hollow-wall and flush-mounted versions
- Flat and super flat door design
- Integrated spirit level
- 3D plaster compensation
- Top row carrier rail
- Micro-perforated mounting plate
- Cable holder
- Device holder
- 2-fold electricity socket
- Pre-punched cable entries, on all sides
- Protection class II, fully insulated
- Door and cover frame, sheet steel RAL 9016
- Low halogen level
- IEC/EN 60670-24

# xComfort Compact Distribution Boxes

## IKA Surface-mounted compact distribution boxes, IP65



The easy-to-mount PE/N terminal rails, fixing possibilities directly at the wall without having to drill holes into the enclosure, and the spacious distance of 150 mm between the terminal rails allow you to install the IKA distribution board in an extremely convenient and fast way. Changing the door hinges can be done within seconds, without having to remove the cover or any other parts of the enclosure. Height-adjustable, stable device carrier rails and pre-punched holes for cable entries with a centration point are just a few of the many highly appreciated features, and the possibility of lead-sealing the enclosure cover and door comes as a standard feature as well, all without the need for any additional parts.

Highlights are the large wiring area under the carrier rail of 46 mm, the integrated module compensation in the cover used to compensate the different widths of the devices, and the possibility of installing additional functional units in the bottom panel of the enclosure.

Safe – thanks to the high degree of protection IP65, the foamed all-round sealing and the robust, halogen-free construction design of the door and body, safe operation with the IKA industrial distribution board made of polycarbonate can be guaranteed even in harsh industrial environments. More flexibility – thanks to 9 sizes with 4, 6 and 8 module units as well as with 12, 24, 36 or even with 18, 36 and 54 module units, you will find the optimal distribution board solution for any application and situation.

As the IKA surface-mounted compact distribution board meets the requirements of the EN 62208 and IEC/EN 60670-24 standards, it is the first choice for large projects according to IEC/EN 61439 as well as for small projects.

### Benefit:

- Quick and easy to install thanks to the easy-to-mount PE/N terminal rail, fixing possibilities directly at the wall without having to drill holes into the enclosure and a spacious distance between the rails
- Reversing the door hinges can be done within seconds
- Pre-punched holes for cable insertions with a centration point
- Lead-sealing of enclosure cover and door does not require any additional parts

### Features:

- Degree of protection IP65
- Protection class II, fully insulated
- Industrial version (PC) or PRO/Standard version (ABS)
- 1 to 3 rows, 12 and 18 module units
- Mini module with 4, 6 and 8 MU
- Glow wire test 850°C or 650°C
- CNC foamed sealing
- Fully removable DIN support rack
- Up to 46 mm wiring area under the DIN rail
- Module tolerance compensation in the cover
- Depth-adjustable DIN rail
- Neutral and protective conductor terminals
- Intuitive locking and unlocking of the door
- Body RAL 7035, door transparent
- Halogen-free

# xComfort Compact Distribution Boxes

## BF Flat distribution boxes, IP30



The BF series of Eaton's flat distribution boards makes a great visual impact thanks to its straight-forward and flat design. The installation distribution board is available in a surface-mounted as well as in a flush-mounted/hollow-wall version. There is a wide range of colours, device rows, module units and cable insertion options to choose from. The rack with the carrier rails can be completely removed and offers a convenient distance of 150 mm between the rows.

PE/N terminal rows as well as electric-shock protected installation sections with contact points at the metal front plates due to a special type of closure are included. The BF distribution board is made of solid, powder-coated steel sheet and is classified as protection class 1. As this flat distribution board meets the requirements of the 62208 as well as the IEC/EN 61439-1 and -3 standards, it is the right choice for a sub-distribution board up to 160A in a wide range of projects.

### Benefit:

- Easy mounting of the components thanks to a convenient distance between the rows and the possibility to remove the carrier rails
- Increased safety thanks to electric-shock protected installation sections

### Features:

- Degree of protection IP30
- Surface-mounted- or Flush-mounted Flat Distribution Boards
- 2- to 6-rows 24MU/row (Versions A, E, C)
- 4- to 6-rows 33MU/row (Versions A, C, P)
- Protection class I
- Sheet steel enclosure polyester powder coated (white RAL 9016; Version C also in grey RAL 7035)
- Prepared for Eaton MCCB Incoms
- Sheet steel front plates with contacting to the enclosure
- Removable DIN-rail frame
- Generous wiring space
- 150 mm DIN-rail distance (ideal for switchgear busbar system)
- Complete enclosure (including N/PE-terminals)
- Depth: 127 mm
- Universal mounting plate

## EWK section distribution boxes, IP43



The next generation of the well-proven EWK surface-mounted field distribution board featuring a depth of 160 mm is outstanding thanks to its improved installation sections. Large-area shock-protection covers made of plastic which can be closed without the need for any tools, torsion-resistant carrier rails of 35x15 mm and the new combined plug-type terminals complete the list of its features. Traditional virtues such as the 2K membrane flanges at the top and bottom, 110° door opening angle, lead-sealable rotary bolt and 3-point rod lock for enclosures with double-wing doors will be continued with this latest generation as well. Thanks to its classification as protection class 2 and its certification according to standard 61439-3 up to 125A, the EWK surface-mounted field distribution board is above all used in public buildings.

### Benefit:

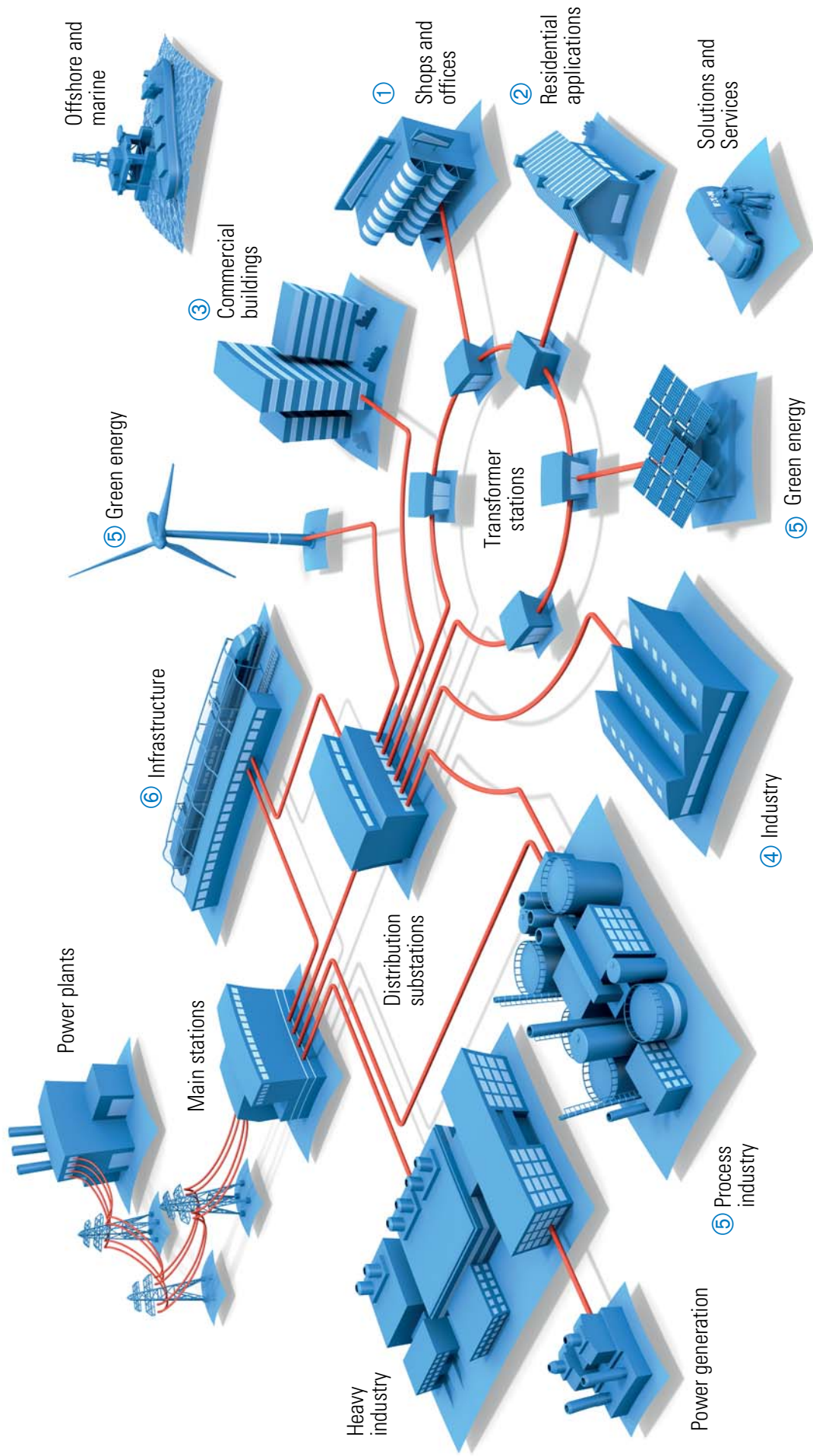
- Improved safety thanks to the large-area electric-shock protection cover
- Compactness thanks to torsion-resistant carrier rails
- Easy to mount thanks to the large wiring area behind the DIN rail

### Features:

- Degree of protection IP43, IK09
- Protection class II, fully insulated
- 160 mm enclosure depth
- Complete with door and installation field for add-on devices
- Combined plug-type terminals for neutral and protective conductor
- Device cover with quick-acting closure
- 36 to 288 module units, 3 to 6 rows
- 16 different enclosure sizes
- Design with either one or two doors
- Larger enclosures with 3-point rod lock
- DIN carrier structure is fully withdrawable
- Stable and torsion-resistant DIN rail
- Possibility for direct fixing on the wall
- Quick and easy inversion of the door hinges
- 2K membrane flanges
- Body RAL 9016, door of non-transparent sheet steel

# xComfort Compact Distribution Boxes

Anwendungsbereiche



Shops and offices ①



Residential applications ②



Commercial buildings, Hotels and Infrastructure ③+⑥



Industry & Processindustry, green energy ④+⑤



IKA Industrial aus Polycarbonat

# Eaton Online Catalog – find product details quickly and efficiently!

You can find comprehensive up-to-date product information at <http://ecat.moeller.net/catalog>

## Lookup

You can search by keywords, product names, article numbers, technical data: The search understands everything and takes you straight to the product you're looking for.

## Graphical navigation

Graphical representation of the fields of application and product groups.

## Selection aids

Tailored to the typical expert's approach, this search aid helps you quickly find the product you need.

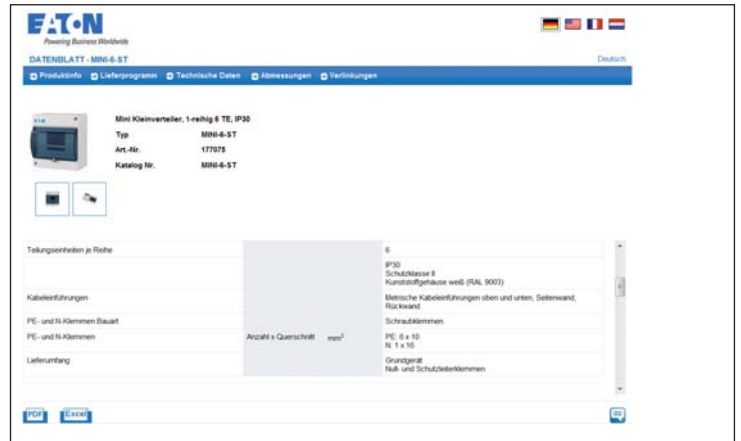
## Data sheets

For every article the catalog can generate a technical data sheet, which you can convert to a PDF file for printing or saving with a single click.

## Parts lists

From your search results you can create a parts list that you can then send to your Eaton sales partner as a query.

You can find comprehensive up-to-date information about Eaton's automation products and switchgear in our Online Catalog.



HTML data sheet; can be saved as PDF file.

### Stückliste

Pos.	Anz.	Foto	Art.-Nr.	Typ	Kurztext	VPE	Liefeereinheit	Kommentar
<input type="checkbox"/>	1		174221	IKA-1/4-ST	IKA Verteiler Professional, IP65	1	1	Projekt Tiefgarage
<input type="checkbox"/>	1		177065	MICRO-4	Micro Kleinverteiler, 1-reihig 4 TE IP30	1	1	Projekt Timer
<input type="checkbox"/>	1		177075	MINI-G-ST	Mini Kleinverteiler, 1-reihig 6 TE, IP30	1	1	Projekt Renovierung
<input type="checkbox"/>	1		103103	BF-OT-3/72-C	Oberputz Flachverteiler mit Sichtfenster komplett, weiß, 24TE pro Reihe, 3 Reihen, Ausführung C	1	1	Projekt Hotel Wien
<input type="checkbox"/>	1		174652	EWK-05051	Wandgehäuse EWK mit Normeinbaueinheiten 72TE, IP43, IK09, Schutzklasse 2, RAL9016, HxBxT=500x550x160mm	1	1	Projekt Messehalle

Alle auswählen

Position löschen

Änderungen übernehmen

Freie Position hinzufügen

Parts list, e.g. for queries to Eaton Sales.

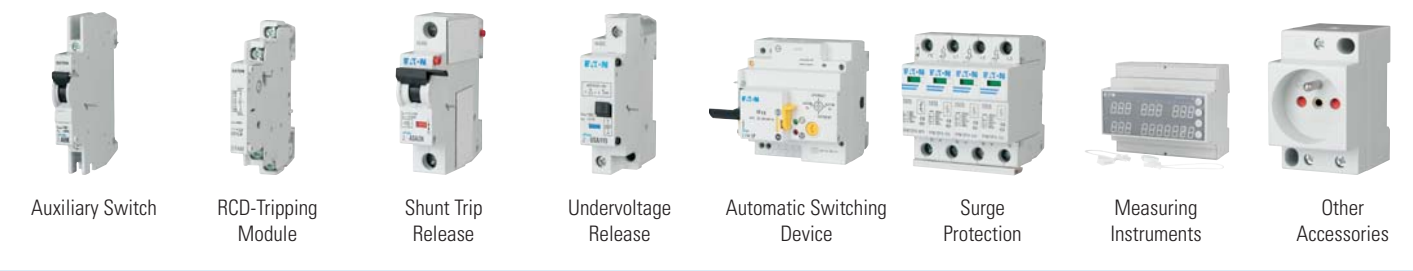


# Protective Devices

## Protective Devices



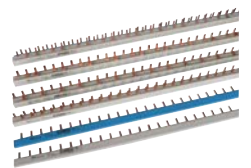
## Accessories for Protective Devices



## Controlling & Switching



## Busbar System



Plug-in busbar and Busbar block

### Benefit:

- The entire distribution board solution is technically inter-coordinated
- The ideal solution for any application, both in the private and industrial sector
- Expansions and adjustments at a later point in time are always possible
- Perfect image at the end-customer's thanks to a single-source solution

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## Compact Distribution Boxes

VT78714



VT77114



VT25414



P06\_KLV-36UPP-F



VT24814



P10\_KLV-36UPM-F



wa\_vt06213



VT91314



## Micro & Mini Compact Distribution Boxes, IP30

VT78914



### MICRO-... and MINI-....

- Degree of protection IP20 or IP30
- Protection class II, totally insulated
- Either with or without a window
- 1-row, 3, 4, 5 and 6 MU

VT77714



- High-quality ABS plastic
- Glow wire test 650°C
- Support rail made of plastic
- Possibility of direct fixing on the wall
- Pre-punched metric areas for cable entry all around
- Lead-sealable window
- Body RAL 9003, door transparent

VT77914



VT77114



## Micro & Mini Compact Distribution Boxes

### Type Code

<b>MICRO</b>	-	<b>4</b>			
Micro	-	Module units			
Compact distribution boxes		MU			
		2			
		4			
<b>MINI</b>	-	<b>4</b>	-	<b>S</b>	<b>T</b>
MINI	-	Module units		Version	Version
Compact distribution boxes		MU		Indoor	Door
		2		S = Screw-type terminal	T = transparent
		3		" - " = without terminal	" - " = without door
		4			
		5			
		6			

### System Overview Micro & Mini

Compact DB Version	Protection class II (totally insulated)	Complies with European Standard EN 62208	IP30	RAL 9003	N/PE Terminals	Window
Micro	■	■ <sup>1)</sup>	■	■ <sup>2)</sup>	-	-
Mini	■	■ <sup>1)</sup>	■ <sup>3)</sup>	■ <sup>2)</sup>	■ <sup>4)</sup>	■




<sup>1)</sup> Pre-requisite for building distribution boxes from empty enclosures according to IEC/EN 61439-3

<sup>2)</sup> Body and cover frame, window is transparent

<sup>3)</sup> Version without a window = IP20.

<sup>4)</sup> Only Mini-6-ST version

### Legend Micro & Mini



Symbol	Explanation
	Totally insulated, according to EN 60670-24.
	Only for indoor applications.
	Resistance to abnormal heat and fire according IEC/EN 62208.

## Micro Compact Distribution Boxes

### IP30 (IK 05)



- Surface-mounted
- Protection class II, totally insulated
- 1-row, 2 and 4 module units
- No tools required for enclosure assembly
- Support rail made of plastic
- Enclosure made of high-quality ABS plastic
- No window
- Glow wire test 650°C
- Pre-punched metric areas for cable entry all around
- Body RAL 9003
- Possibility of direct fixing on the wall, no need to drill holes into the enclosure

	Rows / MU	Description	Window	Type designation	Article No.	Pack (pcs.)
<b>Micro</b>						
 <p>VT79114</p>	1 / 2	No tools required for assembly thanks to easy click-assembly	no	MICRO-2	177081	1 / 20
 <p>VT78714</p>	1 / 4	No tools required for assembly thanks to easy click-assembly	no	MICRO-4	177065	1 / 12

## Mini Compact Distribution Boxes

### IP30 or IP20 (IK 05)



- Surface-mounted
- Protection class II, totally insulated
- 1-row, 2, 3, 4, 5 and 6 module units
- Support rail made of plastic
- Enclosure made of high-quality ABS plastic
- Either with or without a window
- Window lead-sealable
- Glow wire test 650°C
- Pre-punched metric areas for cable entry all around
- Body RAL 9003
- Possibility of direct fixing on the wall, no need to drill holes into the enclosure

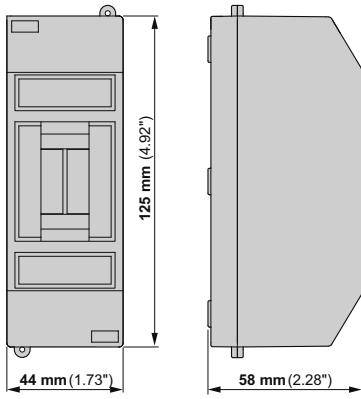
	Rows / MU	Description	Window	Type designation	Article No.	Pack (pcs.)
<b>Mini</b>						
VT77714, VT78914 	1 / 2	without N/PE terminals	with	MINI-2-T	177071	1 / 20
			without	MINI-2	177066	1 / 20
VT77514, VT78514 	1 / 3	without N/PE terminals	with	MINI-3-T	177072	1 / 12
			without	MINI-3	177067	1 / 12
VT77714, VT78314 	1 / 4	without N/PE terminals	with	MINI-4-T	177073	1 / 12
			without	MINI-4	177068	1 / 12
VT77114, VT77914 	1 / 5	with N terminal 1x16mm <sup>2</sup>	with	MINI-5-ST	177074	1 / 9
		without N terminal	without	MINI-5	177069	1 / 9
VT76914, VT78114 	1 / 6	with N/PE terminals 6x10mm <sup>2</sup> + 1x16mm <sup>2</sup>	with	MINI-6-ST	177075	1 / 9
		without N/PE terminals	without	MINI-6	177070	1 / 9

## Technical Data Micro & Mini

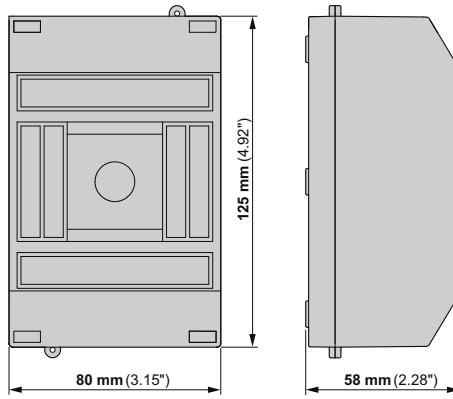
	Unit
<b>Electrical</b>	
Version according to	IEC/EN 62208
Degree of protection	IP30 (IK05); Mini without window IP20; according to EN 60529
Protection class	II, totally insulated
Rated voltage	V 400 AC
Max. power loss admitted for all devices installed in the distribution box at a difference in temperature of 20°K:	
MICRO-2	W 10.0
MICRO-4	W 10.4
MINI-2	W 10.0
MINI-3	W 10.2
MINI-4	W 10.4
MINI-5	W 10.7
MINI-6	W 10.8
<b>Mechanical</b>	
Material:	
Enclosure	ABS
Window	SAN
Colour of the enclosure	white RAL 9003
Colour of the window	transparent
Distance between rows	mm -
Support rail for devices	Plastic
UV resistant	No
Type of installation	
MICRO	Indoor
MINI	Indoor
Halogen-free, RoHs	Yes

## Dimensions (mm)

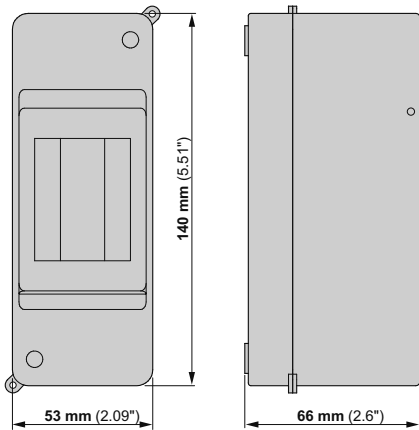
MICRO-2



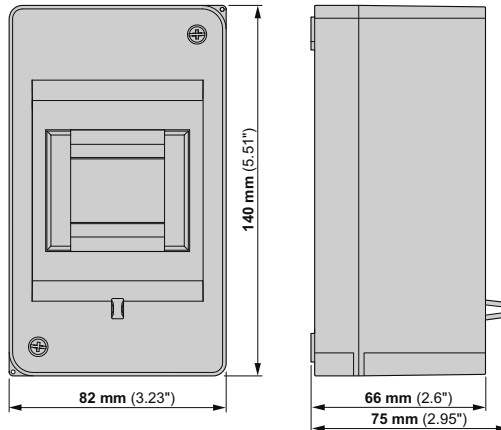
MICRO-4



MINI-2

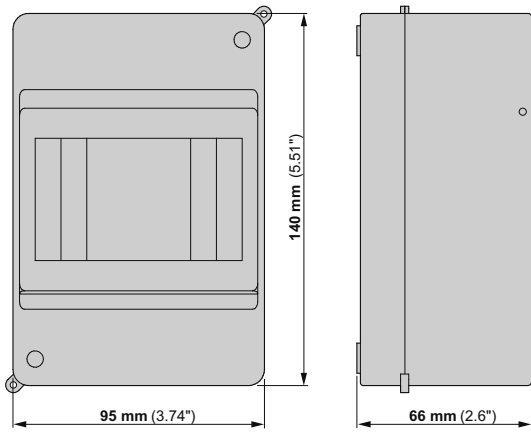


MINI-3

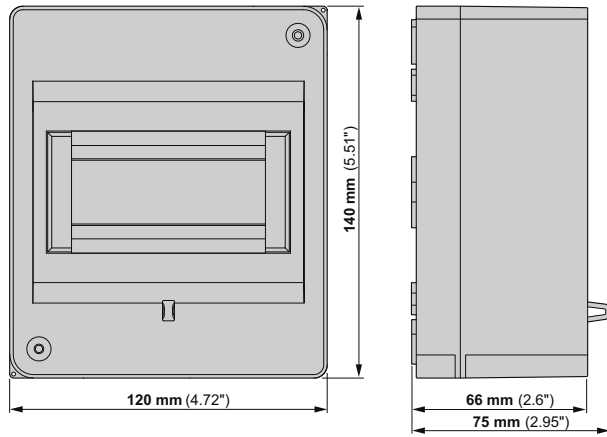


## Dimensions (mm)

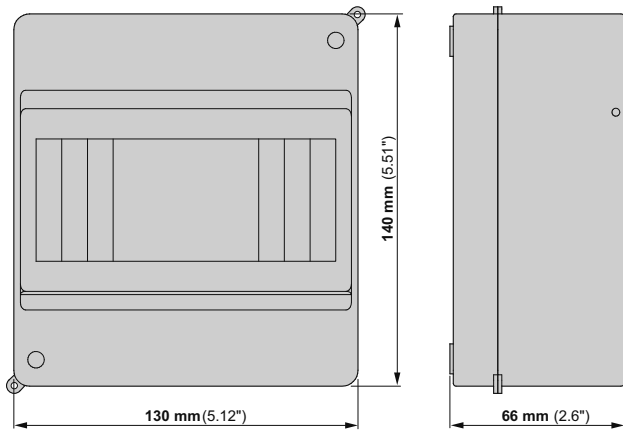
MINI-4



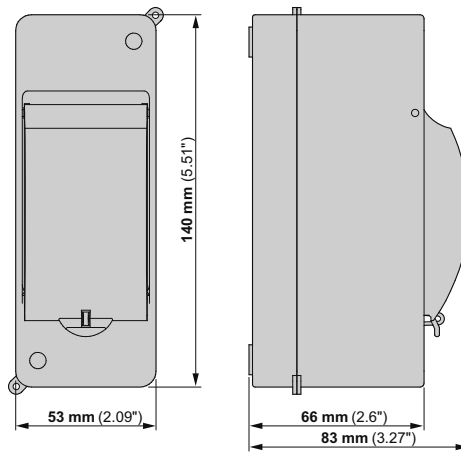
MINI-5



MINI-6

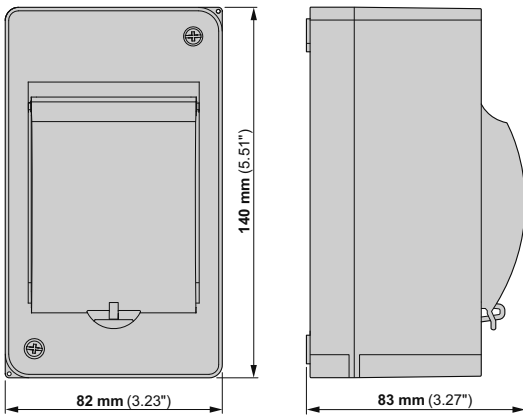


MINI-2-T

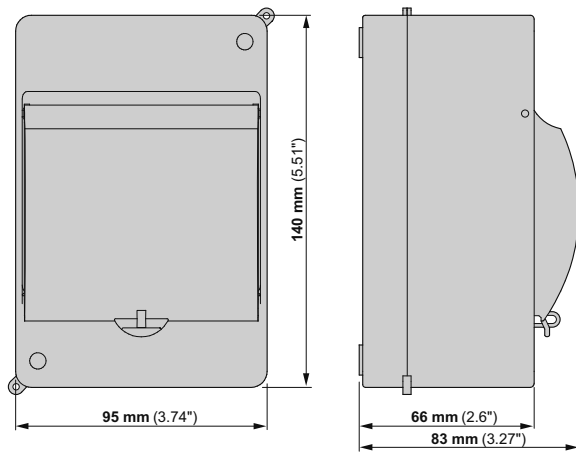


## Dimensions (mm)

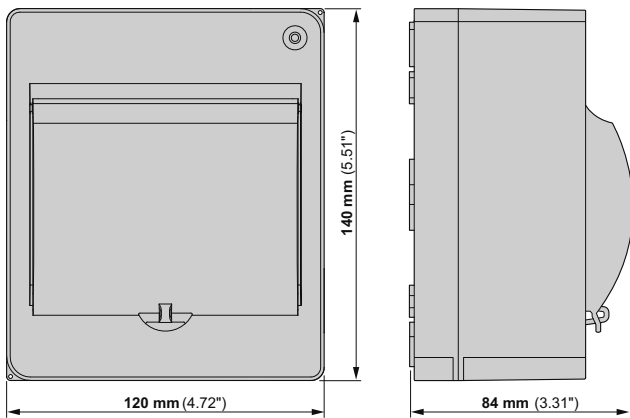
MINI-3-T



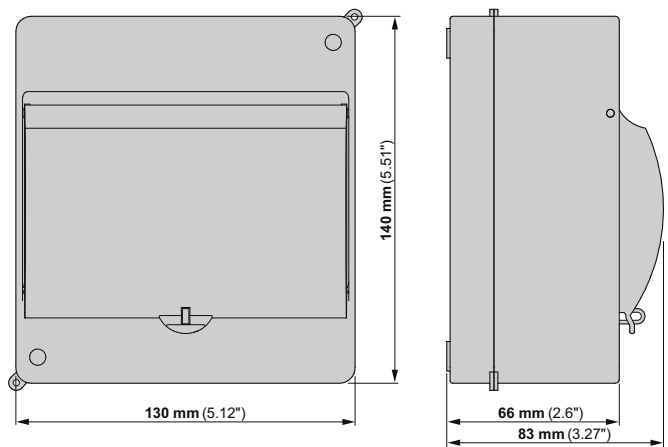
MINI-4-T



MINI-5-ST



MINI-6-ST



## ECO Surface/Flush-Mounted Compact Distribution Boxes, IP40 BC-O-...(-TW)-ECO / BC-U-...(-TW)-ECO

wa\_vt29613



### BC-O-...(-TW)-ECO / BC-U-...(-TW)-ECO

- Surface mounted / flush: 1-row, 5, 8, 12 and 18 module units
- Surface mounted / flush: 2-rows, 24 and 36 module units
- Surface mounted / flush: 3-rows, 36 module units
- Surface-mounted: 3-rows, 54 module units

wa\_vt30113



- Protection class II
- Degree of protection: IP40

### Scope of delivery

- Enclosure
- Door transparent / white
- Device support rail
- Neutral and earth conductor terminals
- Instructions for installation

wa\_vt29713







wa\_vt29913



## ECO Surface/Flush-Mounted Compact Distribution Boxes, IP40

### Surface/Flush-Mounted Compact Distribution Boxes BC-O-...-ECO, BC-U-...-ECO

	Number of Rows / Module Units	Type designation	Article No.	Pack (pcs.)
<b>Surface-mounted compact distribution boxes, transparent door</b>				
 <p>wa_vt30013</p>	1 / 5	BC-O-1/5-ECO	280345	1
	1 / 8	BC-O-1/8-ECO	280346	1
	1 / 12	BC-O-1/12-ECO	280347	1
	1 / 18	BC-O-1/18-ECO	280348	1
	2 / 24	BC-O-2/24-ECO	280349	1
	2 / 36	BC-O-2/36-ECO	280350	1
	3 / 36	BC-O-3/36-ECO	284640	1
3 / 54	BC-O-3/54-ECO	280351	1	
<b>Surface-mounted compact distribution boxes, white door</b>				
 <p>wa_vt47513</p>	1 / 5	BC-O-1/5-TW-ECO	281649	1
	1 / 8	BC-O-1/8-TW-ECO	281690	1
	1 / 12	BC-O-1/12-TW-ECO	281691	1
	1 / 18	BC-O-1/18-TW-ECO	281692	1
	2 / 24	BC-O-2/24-TW-ECO	281693	1
	2 / 36	BC-O-2/36-TW-ECO	281694	1
	3 / 36	BC-O-3/36-TW-ECO	284642	1
3 / 54	BC-O-3/54-TW-ECO	281695	1	
<b>Flush-mounted compact distribution boxes, transparent door</b>				
 <p>wa_vt29813</p>	1 / 5	BC-U-1/5-ECO	280352	1
	1 / 8	BC-U-1/8-ECO	280353	1
	1 / 12	BC-U-1/12-ECO	280354	1
	1 / 18	BC-U-1/18-ECO	280355	1
	2 / 24	BC-U-2/24-ECO	280356	1
	2 / 36	BC-U-2/36-ECO	280357	1
	3 / 36	BC-U-3/36-ECO	284641	1
<b>Flush-mounted compact distribution boxes, white door</b>				
 <p>wa_vt08814</p>	1 / 5	BC-U-1/5-TW-ECO	281696	1
	1 / 8	BC-U-1/8-TW-ECO	281697	1
	1 / 12	BC-U-1/12-TW-ECO	281698	1
	1 / 18	BC-U-1/18-TW-ECO	281699	1
	2 / 24	BC-U-2/24-TW-ECO	281710	1
	2 / 36	BC-U-2/36-TW-ECO	281711	1
	3 / 36	BC-U-3/36-TW-ECO	284643	1

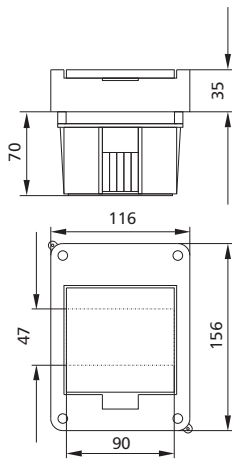
## ECO Surface/Flush-Mounted Compact Distribution Boxes, IP40

### Technical Data BC-O-...-ECO, BC-U-...-ECO

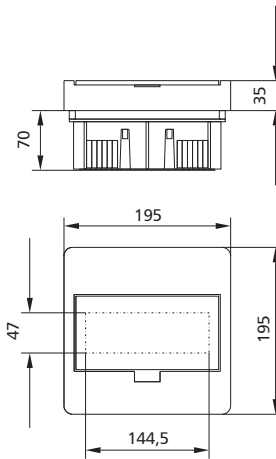
Unit	
<b>Electrical</b>	
Design according to	EN 62208
Degree of protection	IP40 (IK07) according to EN 60529
Protection class	II
Rated voltage	V 400 AC
<b>Mechanical</b>	
Material	ABS
Colour	RAL 9003
Temperature resistance	°C -5 to +40

### Dimensions (mm)

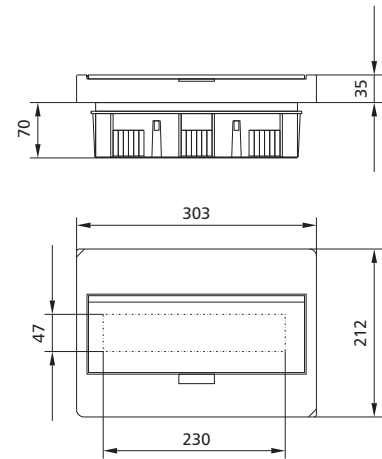
Flush-mounted compact distribution boxes BC-O-...(-TW)-ECO



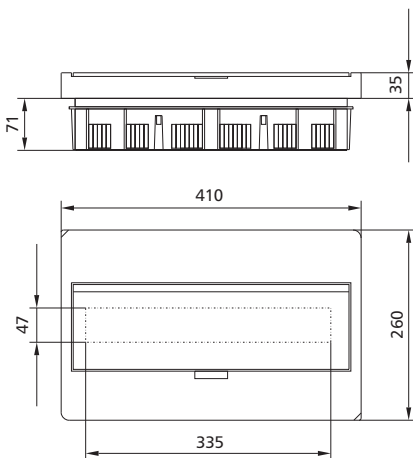
BC-U-1/5(-TW)-ECO



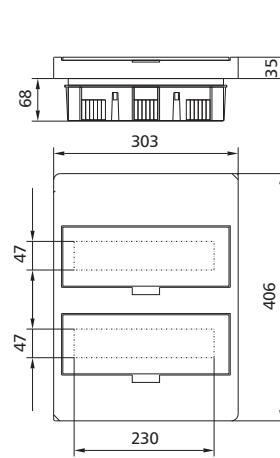
BC-U-1/8(-TW)-ECO



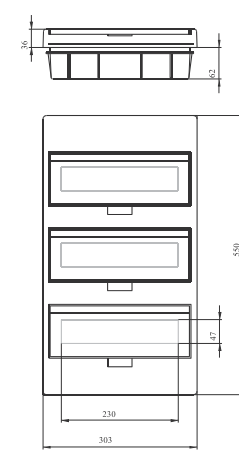
BC-U-1/12(-TW)-ECO



BC-U-1/18(-TW)-ECO



BC-U-2/24(-TW)-ECO

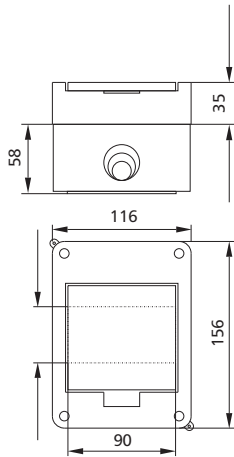


BC-U-3/36(-TW)-ECO

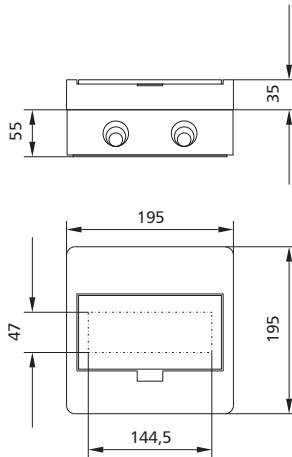
## ECO Surface/Flush-Mounted Compact Distribution Boxes, IP40

### Dimensions (mm)

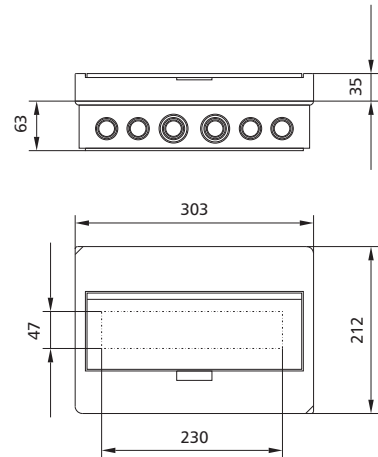
Surface-mounted compact distribution boxes, BC-O-...(-TW)-ECO



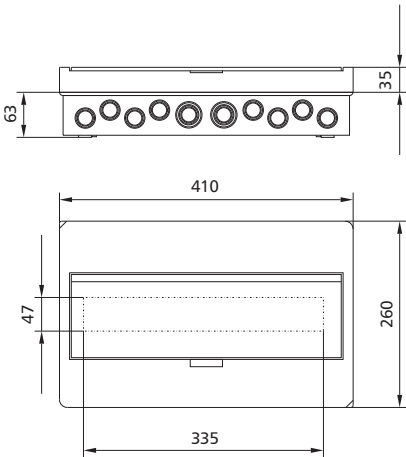
BC-O-1/5(-TW)-ECO



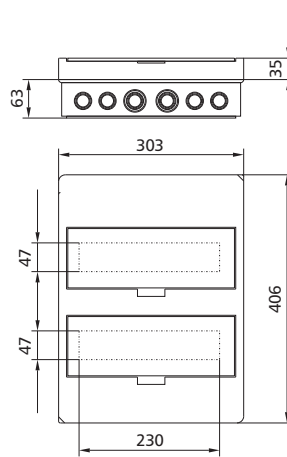
BC-O-1/8(-TW)-ECO



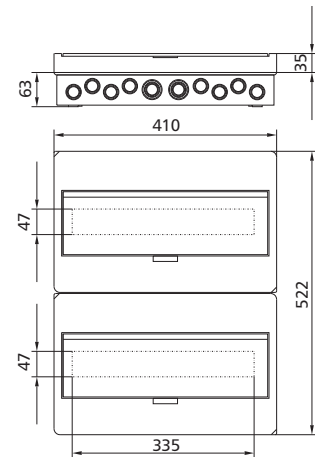
BC-O-1/12(-TW)-ECO



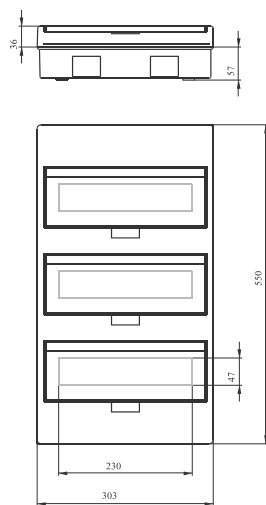
BC-O-1/18(-TW)-ECO



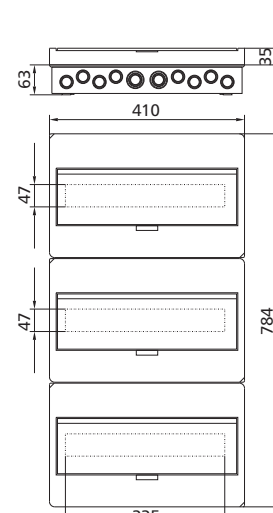
BC-O-2/24(-TW)-ECO



BC-O-2/36(-TW)-ECO



BC-O-3/36(-TW)-ECO



BC-O-3/54(-TW)-ECO

## KLV Flush-mounted/Hollow-wall Compact DBs, IP30

P06\_KLV-12UPP-F



### KLV-...UP and KLV-...HW

- 1 to 4 rows, 12 module units and 2 spare MUs in each row
- Multimedia variants
- Hollow-wall and flush-mounted versions
- Flat and super flat door design

P06\_KLV-24UPP-F



- Integrated spirit level
- 3D plaster compensation
- Terminals for neutral and protective conductors
- N-FI expansion terminal (FI = RCD = Residual Current Device)
- Pre-punched cable entries on all sides
- Degree of protection IP30

P06\_KLV-36UPP-F



- Protection class II, fully insulated
- Door and cover frame, sheet steel RAL 9016
- Low halogen level

P06\_KLV-48UPP-F



## KLV Flush-mounted/Hollow-wall Compact Distribution Boards, IP30

### Type key

<b>KLV</b>	-	<b>24</b>	<b>UP</b>	<b>P</b>	-	<b>F</b>
Large DB with large wiring area	-	Module units MU	Type of installation of the wall pan	Design of inside equipment	-	Design of door and frame
		12	UP = Flush-mounted	P = Plug-type terminal		F = flat
		24	HW = Hollow-wall	S = Screw-type terminal		SF = super-flat
		36		M = Media		
		48				

## System Overview of KLV Flush-mounted/Hollow-wall Compact DBs, IP30

<b>Compact DB Design</b>	<b>Protection class II (fully insulated)</b>	<b>IP30</b>	<b>IEC/EN 62208</b>	<b>IEC/EN 60670-24</b>	<b>RAL 9016</b>
Flush-mounted	■	■	■	■ <sup>3)</sup>	■ <sup>2)</sup>
Hollow-wall	■	■	■	■ <sup>3)</sup>	■ <sup>2)</sup>
Media	■ <sup>1)</sup>	■	■	■	■ <sup>2)</sup>

<sup>1)</sup> To maintain protection class II in media distribution boards, all devices installed must be of the fully insulated type.

<sup>2)</sup> Sheet steel door and frame

<sup>3)</sup> Rated current up to 63 A

## KLV Flush-mounted/Hollow-wall Compact DBs, IP30

More and larger terminal points for practical use <sup>1)</sup>

<b>Rows / MU</b>	<b>Terminal points per N and PE acc. to EN 60670-24 (DIN 43871) required</b>		<b>Terminal points per N and PE Eaton KSK terminal (KSK= Combined plug-type terminal)</b>		<b>Terminal points per N and PE Eaton SK terminal (SK = Screw-type terminal)</b>
1 / 12+2	10x 4mm <sup>2</sup>	2x 16mm <sup>2</sup>	14x 4mm <sup>2</sup>	2x 25mm <sup>2</sup>	13x 0.75-16mm <sup>2</sup>
2 / 24+4	14x 4mm <sup>2</sup>	2x 16mm <sup>2</sup>	14x 4mm <sup>2</sup>	2x 25mm <sup>2</sup>	16x 0.75-16mm <sup>2</sup>
3 / 36+6	17x 4mm <sup>2</sup>	4x 16mm <sup>2</sup>	28x 4mm <sup>2</sup>	4x 25mm <sup>2</sup>	25x 0.75-16mm <sup>2</sup>
4 / 48+8	20x 4mm <sup>2</sup>	4x 16mm <sup>2</sup>	28x 4mm <sup>2</sup>	4x 25mm <sup>2</sup>	25x 0.75-16mm <sup>2</sup>

<sup>1)</sup> Eaton compact distribution boards can be expanded in a modular way by adding N-FI (RCD) potentials. See Technical Data section for more details.

## KLV Flush-mounted/Hollow-wall Compact Distribution Boards, IP30

### Scope of delivery - Overview of Compact Energy Distribution Boards Flush-mounted/Hollow-wall KLV

	KLV-...-UPP-...	KLV-...-HWP-...	KLV-...-UPS-...	KLV-...-HWS-...
Wall pan - flush-mounted	■	-	■	-
Wall pan - hollow-wall	-	■	-	■
Spirit level	■	■	■	■
Cable holder	■	■	■	■
Cover for electric shock protection	■	■	■	■
Flange slide	■	■	■	■
Nail straps	■	-	■	-
Hollow-wall anchor	-	■	-	■
DIN carrier rail with crossbar	■	■	■	■
N/PE combined plug-type terminal	■	■	-	-
N/PE screw-type terminal	-	-	■	■
N-FI terminal <sup>1)</sup> (FI = RCD)	■	■	■	■
3D plaster compensation	■	■	■	■
Frame flat/super flat	■	■	■	■
Door flat/super flat	■	■	■	■
Power circuit sticker	■	■	■	■

<sup>1)</sup> Note: Included in the scope of delivery of 2, 3 and 4 row distribution boards



P06\_FTG\_KLV-36UPP-F



P06\_FTG\_KLV-36UWP-F



P08\_KLV-36UPS-SF



P08\_KLV-36UWS-SF

### Scope of delivery - Overview of Compact Media Distribution Boards Flush-mounted/Hollow-wall KLV

	KLV-...-UPM-...	KLV-...-HWM-...
Wall pan - flush-mounted	■	-
Wall pan - hollow-wall	-	■
Spirit level	■	■
Cable holder	■	■
Cover for electric shock protection	-	-
Flange slide	■	■
Nail straps	■	-
Hollow-wall anchor	-	■
DIN carrier rail (1x)	■	■
Mounting plate with holes prepared f. knock-out	■	■
2-fold electricity socket (EURO2)	■	■
3D plaster compensation	■	■
Frame flat/super flat	■	■
Door ventilated	■	■
Connection brackets	■	■



P10\_KLV-36UPM-F










P10\_KLV-48UPM-F

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## Short description of KLV Flush-mounted/Hollow-wall Compact Distribution Boards, IP30

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Symbols	Explanation
	Protective insulation, according to EN 60670-24.
	Approved for indoor use only.
	Glow-wire test according to IEC/EN 62208.
	Flush-mounting according to IEC/EN 60670-24.
	Hollow-wall mounting according to IEC/EN 60670-24.
	Multimedia applications in GP universal enclosure according to IEC/EN 60670-24.
	Delivery form for projects, separate ordering and delivery of assemblies.





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## KLV Flush-mounted/Hollow-wall Compact Distribution Boards, IP30 (combined plug-type terminal)

### IP 30



- Approved according to IEC/EN 60670-24 and IEC/EN 62208, i.e. for distributions according to IEC/EN 61439-3
- N/PE combined plug-type terminal, finger-proof IP2X with combined snap-on and screw-technology, terminal points are easy to add to the carrier, with a separate N-FI terminal block (FI = RCD).
- Self-extinguishing plastic, resistant to abnormal heat and fire up to 650°C, glow-wire test according to IEC/EN 62208
- Door with frame made of sheet steel, with 3D plaster compensation (compensation possible up to 18 mm), colour RAL 9016, optionally flat (F) or super flat (SF)
- Stable device cover made of plastic, with cut-outs for DIN switchgear and protective devices, 12+2 MU per row, 90° four-point lock, lead-sealing is possible, laser-labelled rating plate
- Wall pan made of plastic with integrated spirit level
- DIN carrier rails galvanised, stable design with crossbars, 125 mm distance between rows
- Wiring duct at the side, with cable holder for clearly structured wiring
- Cable insertion slide with pre-punched holes and snap-on fixing
- Door hinges are easy to inverse, hinges for manual handling
- Flat rotary closure of the door, can be replaced by one of the lock versions
- Nail straps for fixing on the wall





	Rows / MU	Description	Type designation	Article No.	Pack (pcs.)
<b>Flush-mounted UPP (combined plug-type terminal KSK)</b>					
 <small>P06_FTG_KLV-12UPP-F</small>	1 / 12+2	with 1x N/PE comb. plug-type terminal 2x 2.5-25 mm <sup>2</sup> each and 14x 0.5-4 mm <sup>2</sup> each	KLV-12UPP-F	178798	1/90
			KLV-12UPP-SF	178799	1/90
 <small>P06_FTG_KLV-24UPP-F</small>	2 / 24+4	with 1x N/PE comb. plug-type terminal 2x 2.5-25 mm <sup>2</sup> each and 14x 0.5-4 mm <sup>2</sup> each 1x N-FI single terminal with 1x 2.5-25 mm <sup>2</sup> and 7x 0.5-4 mm <sup>2</sup>	KLV-24UPP-F	178800	1/60
			KLV-24UPP-SF	178801	1/60
 <small>P06_FTG_KLV-36UPP-F</small>	3 / 36+6	with 1x N/PE comb. plug-type terminal 4x 2.5-25 mm <sup>2</sup> each and 28x 0.5-4 mm <sup>2</sup> each with separate N-FI terminal block	KLV-36UPP-F	178802	1/60
			KLV-36UPP-SF	178803	1/60
 <small>P06_FTG_KLV-48UPP-F</small>	4 / 48+8	with 1x N/PE comb. plug-type terminal 4x 2.5-25 mm <sup>2</sup> each and 28x 0.5-4 mm <sup>2</sup> each with separate N-FI terminal block	KLV-48UPP-F	178804	1/45
			KLV-48UPP-SF	178805	1/45

## KLV Flush-mounted/Hollow-wall Compact Distribution Boards, IP30 (combined plug-type terminal)

### IP 30



- Approved according to IEC/EN 60670-24 and IEC/EN 62208, i.e. for distributions according to IEC/EN 61439-3
- N/PE combined plug-type terminal, finger-proof IP2X with combined snap-on and screw technology, terminal points are easy to add to the carrier, with a separate N-FI terminal block (FI = RCD).
- Self-extinguishing plastic, resistant to abnormal heat and fire up to 850°C, glow-wire test according to IEC/EN 62208
- Door with frame made of sheet steel, with 3D plaster compensation (compensation possible up to 18 mm), colour RAL 9016, optionally flat (F) or super flat (SF)
- Stable device cover made of plastic, with cut-outs for DIN switchgear and protective devices, 12+2 MU per row, 90° four-point lock, lead-sealing is possible, laser-labelled rating plate
- Wall pan made of plastic with integrated spirit level
- DIN carrier rails galvanised, stable design with crossbars, 125 mm distance between rows
- Wiring duct at the side, with cable holder for clearly structured wiring
- Cable insertion slide with pre-punched holes and snap-on fixing
- Door hinges are easy to inverse, hinges for manual handling
- Flat rotary closure of the door, can be replaced by one of the lock versions
- Hollow-wall anchor for fixing in a hollow wall





	Rows / MU	Description	Type designation	Article No.	Pack (pcs.)
<b>Hollow-wall mounting HWP (combined plug-type terminal KSK)</b>					
 <small>P06_FTG_KLV-12UFP-F</small>	1 / 12+2	with 1x N/PE comb. plug-type terminal 2x 2.5-25 mm <sup>2</sup> each and 14x 0.5-4 mm <sup>2</sup> each	KLV-12HWP-F	178806	1/90
			KLV-12HWP-SF	178807	1/90
 <small>P06_FTG_KLV-24UFP-F</small>	2 / 24+4	with 1x N/PE comb. plug-type terminal 2x 2.5-25 mm <sup>2</sup> each and 14x 0.5-4 mm <sup>2</sup> 1x N-FI single terminal with 1x 2.5-25 mm <sup>2</sup> and 7x 0.5-4 mm <sup>2</sup>	KLV-24HWP-F	178808	1/60
			KLV-24HWP-SF	178809	1/60
 <small>P06_FTG_KLV-36UFP-F</small>	3 / 36+6	with 1x N/PE comb. plug-type terminal 4x 2.5-25 mm <sup>2</sup> each and 28x 0.5-4 mm <sup>2</sup> each with a separate N-FI terminal block	KLV-36HWP-F	178810	1/60
			KLV-36HWP-SF	178811	1/60
 <small>P06_FTG_KLV-48UFP-F</small>	4 / 48+8	with 1x N/PE comb. plug-type terminal 4x 2.5-25 mm <sup>2</sup> each and 28x 0.5-4 mm <sup>2</sup> each with separate N-FI terminal block	KLV-48HWP-F	178812	1/45
			KLV-48HWP-SF	178813	1/45

## KLV Flush-mounted/Hollow-wall Compact Distribution Boards, IP30 (screw-type terminal)

### IP 30



- Approved according to IEC/EN 60670-24 and IEC/EN 62208, i.e. for distributions according to IEC/EN 61439-3
- N/PE screw-type terminal, with electric shock protection, additional terminal points are easy to add
- N-FI (FI = RCD) expansion terminal, comes as a standard feature in distribution boards with 2 to 4 rows, additional N-FI terminals of the accessories range can be added
- Self-extinguishing plastic, resistant to abnormal heat and fire up to 650°C, glow-wire test according to IEC/EN 62208
- Door with frame made of sheet steel, with 3D plaster compensation (compensation possible up to 18 mm), colour RAL 9016, optionally flat (F) or super flat (SF)
- Stable device cover made of plastic, with cut-outs for DIN switchgear and protective devices, 12+2 MU per row, 90° four-point lock, lead-sealing is possible, laser-labelled rating plate
- Wall pan made of plastic with integrated spirit level
- DIN carrier rails galvanised, stable design with crossbars, 125 mm distance between rows
- Wiring duct at the side, with cable holder for clearly structured wiring
- Cable insertion slide with pre-punched holes and snap-on fixing
- Door hinges are easy to inverse, hinges for manual handling
- Flat rotary closure of the door, can be replaced by one of the lock versions
- Nail straps for fixing on the wall





	Rows / MU	Description	Type designation	Article No.	Pack (pcs.)
<b>Flush-mounted UPS (screw-type terminal SK)</b>					
	1 / 12+2	with 1x N/PE screw-type terminal 13x 0.75-16 mm <sup>2</sup> (N) and 13x 0.75-16 mm <sup>2</sup> (PE)	KLV-12UPS-F	178814	1/90
			KLV-12UPS-SF	178815	1/90
	2 / 24+4	with 1x N/PE screw-type terminal 13x 0.75-16 mm <sup>2</sup> (N) and 16x 0.75-16 mm <sup>2</sup> (PE) plus 1x N-FI terminal with 4x 0.75-16 mm <sup>2</sup> each	KLV-24UPS-F	178816	1/60
			KLV-24UPS-SF	178817	1/60
	3 / 36+6	with 2x N/PE screw-type terminal 25x 0.75-16 mm <sup>2</sup> (N) and 25x 0.75-16 mm <sup>2</sup> (PE) plus 1x N-FI terminal with 4x 0.75-16 mm <sup>2</sup> each	KLV-36UPS-F	178818	1/60
			KLV-36UPS-SF	178819	1/60
	4 / 48+8	with 2x N/PE screw-type terminal 25x 0.75-16 mm <sup>2</sup> (N) and 25x 0.75-16 mm <sup>2</sup> (PE) plus 1x N-FI terminal with 4x 0.75-16 mm <sup>2</sup> each	KLV-48UPS-F	178820	1/45
			KLV-48UPS-SF	178821	1/45

## KLV Flush-mounted/Hollow-wall Compact Distribution Boards, IP30 (screw-type terminal)

### IP 30



- Approved according to IEC/EN 60670-24 and IEC/EN 62208, i.e. for distributions according to IEC/EN 61439-3
- N/PE screw-type terminal, electric shock protection, additional terminal points are easy to add
- N-FI (FI = RCD) expansion terminal, comes as a standard feature in distribution boards with 2 to 4 rows, additional N-FI terminals of the accessories range can be added
- Self-extinguishing plastic, resistant to abnormal heat and fire up to 850°C, glow-wire test according to IEC/EN 62208
- Door with frame made of sheet steel, with 3D plaster compensation (compensation possible up to 18 mm), colour RAL 9016, optionally flat (F) or super flat (SF)
- Stable device cover made of plastic, with cut-outs for DIN switchgear and protective devices, 12+2 MU per row, 90° four-point lock, lead-sealing is possible, laser-labelled rating plate
- Wall pan made of plastic with integrated spirit level
- DIN carrier rails galvanised, stable design with crossbars, 125 mm distance between rows
- Wiring duct at the side, with cable holder for clearly structured wiring
- Cable insertion slide with pre-punched holes and snap-on fixing
- Door hinges are easy to inverse, hinges for manual handling
- Flat rotary closure of the door, can be replaced by one of the lock versions
- Hollow-wall anchor for fixing in a hollow wall

	Rows / MU	Description	Type designation	Article No.	Pack (pcs.)
<b>Hollow-wall mounted HWS (screw-type terminal SK)</b>					
P08_KLV-12UPS-SF 	1 / 12+2	with 1x N/PE screw-type terminal 13x 0.75-16 mm <sup>2</sup> (N) and 13x 0.75-16 mm <sup>2</sup> (PE)	KLV-12HWS-F	178822	1/90
			KLV-12HWS-SF	178823	1/90
P08_KLV-24UPS-SF 	2 / 24+4	with 1x N/PE screw-type terminal 13x 0.75-16 mm <sup>2</sup> (N) and 16x 0.75-16 mm <sup>2</sup> (PE) plus 1x N-FI terminal with 4x 0.75-16 mm <sup>2</sup> each	KLV-24HWS-F	178824	1/60
			KLV-24HWS-SF	178825	1/60
P08_KLV-36UPS-SF 	3 / 36+6	with 2x N/PE screw-type terminal 25x 0.75-16 mm <sup>2</sup> (N) and 25x 0.75-16 mm <sup>2</sup> (PE) plus 1x N-FI terminal with 4x 0.75-16 mm <sup>2</sup> each	KLV-36HWS-F	178826	1/60
			KLV-36HWS-SF	178827	1/60
P08_KLV-48UPS-SF 	4 / 48+8	with 2x N/PE screw-type terminal 25x 0.75-16 mm <sup>2</sup> (N) and 25x 0.75-16 mm <sup>2</sup> (PE) plus 1x N-FI terminal with 4x 0.75-16 mm <sup>2</sup> each	KLV-48HWS-F	178828	1/45
			KLV-48HWS-SF	178829	1/45

## KLV Flush-mounted/Hollow-wall Compact Distribution Boards, IP30

### Technical Data KLV-...

		Unit
<b>Electrical</b>		
Design according to	IEC/EN 62208; IEC/EN 60670-24	
Degree of protection	IP30 (IK05) according to EN 60529	
Protection class	II, fully insulated	
Rated voltage	V	400 AC
Insulation voltage	V	1000 AC
Max. power loss permitted for all devices installed in the distribution board, at a difference in temperature of 35°K:		
1/12+2	W	21
2/24+4	W	34
3/36+6	W	43
4/48+8	W	48

### Mechanical

Material:		
Enclosure	Polystyrole	
Door/frame	Sheet steel, powder-coated with corrosion protection	
Colour of the enclosure	White RAL 9016	
Colour of the door/frame	White RAL 9016	
Distance between the rows	mm	125
Carrier rail for devices	DIN rail 35 x 7.5 mm sheet steel, galvanised	
UV resistant	No	
Glow-wire test	°C	850 (hollow-wall), 650 (flush-mounted)
Installation type		
KLV-...-UP..	Indoor	
KLV-...-HW..	Indoor	
in areas exposed to a risk of fire	no	
Halogen-free, RoHs	<1%, yes	

### Metrical or pre-punched holes prepared for knock-out

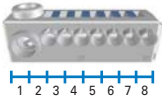
1/12+2	Top/bottom: Pre-punched Rear panel: 10x Ø 28 mm Side panel: right and left 2x Ø 28 mm each
2/24+4	Top/bottom: Pre-punched Rear panel: 10x Ø 28 mm Side panel: right and left 2x Ø 28 mm each
3/36+6	Top/bottom: Pre-punched Rear panel: 10x Ø 28 mm Side panel: right and left 2x Ø 28 mm each
4/48+8	Top/bottom: Pre-punched Rear panel: 10x Ø 28 mm Side panel: right and left 2x Ø 28 mm each

## KLV Flush-mounted/Hollow-wall Compact Distribution Boards, IP30

### Technical Data - Terminals

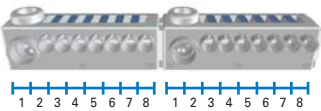
#### KSK-N, KSK-PE, configuration examples

#### tion



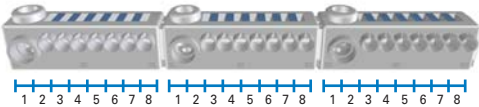
**1x KSK-N (PE)**

P23\_2xKSK-N



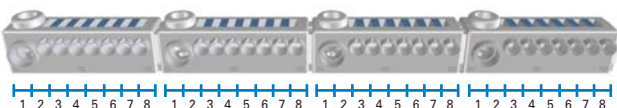
**2x KSK-N (PE)**

P23\_3xKSK-N



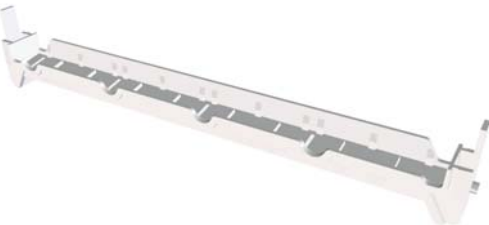
**3x KSK-N (PE)**

P23\_4xKSK-N



**4x KSK-N (PE)**

P15\_KSK-KLV



**KSK-KLV**

#### Cross sections of connections and other important informa-

Per block 1x screw-type connection for 2.5-25 mm<sup>2</sup> (single-wired/multiwired) or 2.5-16 mm<sup>2</sup> (fine-wired with professionally pressed wire end sleeve).

Per block 7x plug-type connection for 0.5-4 mm<sup>2</sup> (single-wired/multi-wired or fine-wired with professionally pressed wire end sleeve).

The tightening torque [Nm] of the screw connection is indicated on the terminal enclosure.

Minimum connection length in case of a plug-type connection is indicated on the terminal enclosure.

Max. electrical load 63A / 400V AC

Degree of protection IP2X

High safety level thanks to finger-proof plastic encapsulation, degree of protection IP2X

N potential in blue colour, protective-conductor potential in green colour

Modular as the additional block can be plugged onto the terminal carrier without any tools to provide additional separate RCD protective circuits. Up to 4 blocks per terminal carrier, up to 4 terminal carriers in each distribution board.

Separate blocks can be interlinked using cable links.

We recommend 4 mm<sup>2</sup> (rigid or flexible with wire end sleeve).

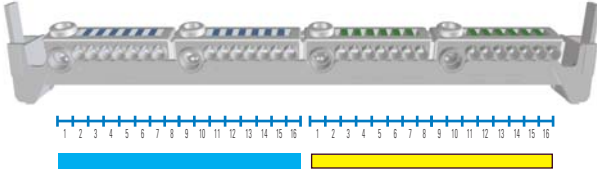
Vertical offset for terminal carriers in the distribution board to provide easy access to the connections and easy snap-on in the distribution board.

## KLV Flush-mounted/Hollow-wall Compact Distribution Boards, IP30

### Technical Data - Terminals

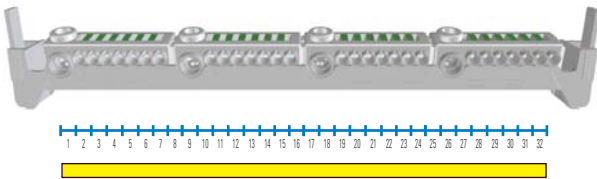
**KSK... included in the scope of delivery of the distribution board KLV...UPP (HWP)**

P24\_KSK-2N\_2PE-KLV



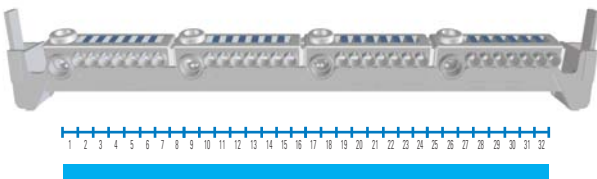
#### KSK-2N/2PE-KLV

P24\_KSK-4PE-KLV



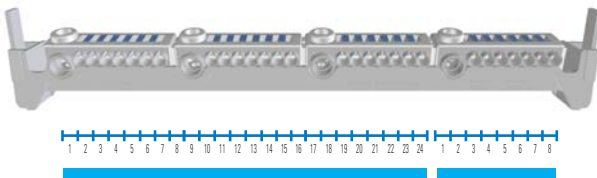
#### KSK-4PE-KLV

P24\_KSK-4N-KLV



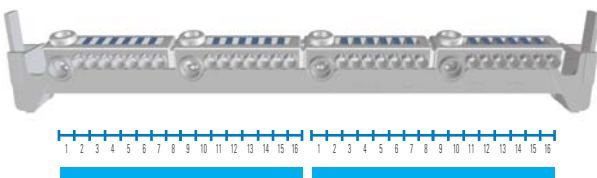
#### KSK-4N-KLV

P24\_KSK-3N\_1N-KLV



#### KSK-3N/1N-KLV

P24\_KSK-2N\_2N-KLV



#### KSK-2N/2N-KLV

### Cross sections of connections and other important information

#### KSK-2N/2PE-KLV

Per potential 2x screw-type connection for 2.5-25 mm<sup>2</sup> (single-wired/multi-wired) or 2.5-16 mm<sup>2</sup> (fine-wired with professionally pressed wire end sleeve) as well as 14x plug-type connection for 0.5-4 mm<sup>2</sup> (single-wired/multi-wired or fine-wired with professionally pressed wire end sleeve).

#### KSK-4N..., KSK-3N/1N..., KSK-2N/2N..., KSK-4PE...

Per block 1x screw-type connection for 2.5-25 mm<sup>2</sup> (single-wired/multi-wired) or 2.5-16 mm<sup>2</sup> (fine-wired with professionally pressed wire end sleeve), as well as 7x plug-type connection for 0.5-4 mm<sup>2</sup> (single-wired/multi-wired or fine-wired with professionally pressed wire end sleeve).

The tightening torque [Nm] of the screw-type connection is indicated on the terminal enclosure.

Minimum connection length with plug-type connection is indicated on the terminal enclosure.

Max. electrical load 63A / 400V AC

Degree of protection IP2X

High safety level thanks to finger-proof plastic encapsulation, degree of protection IP2X

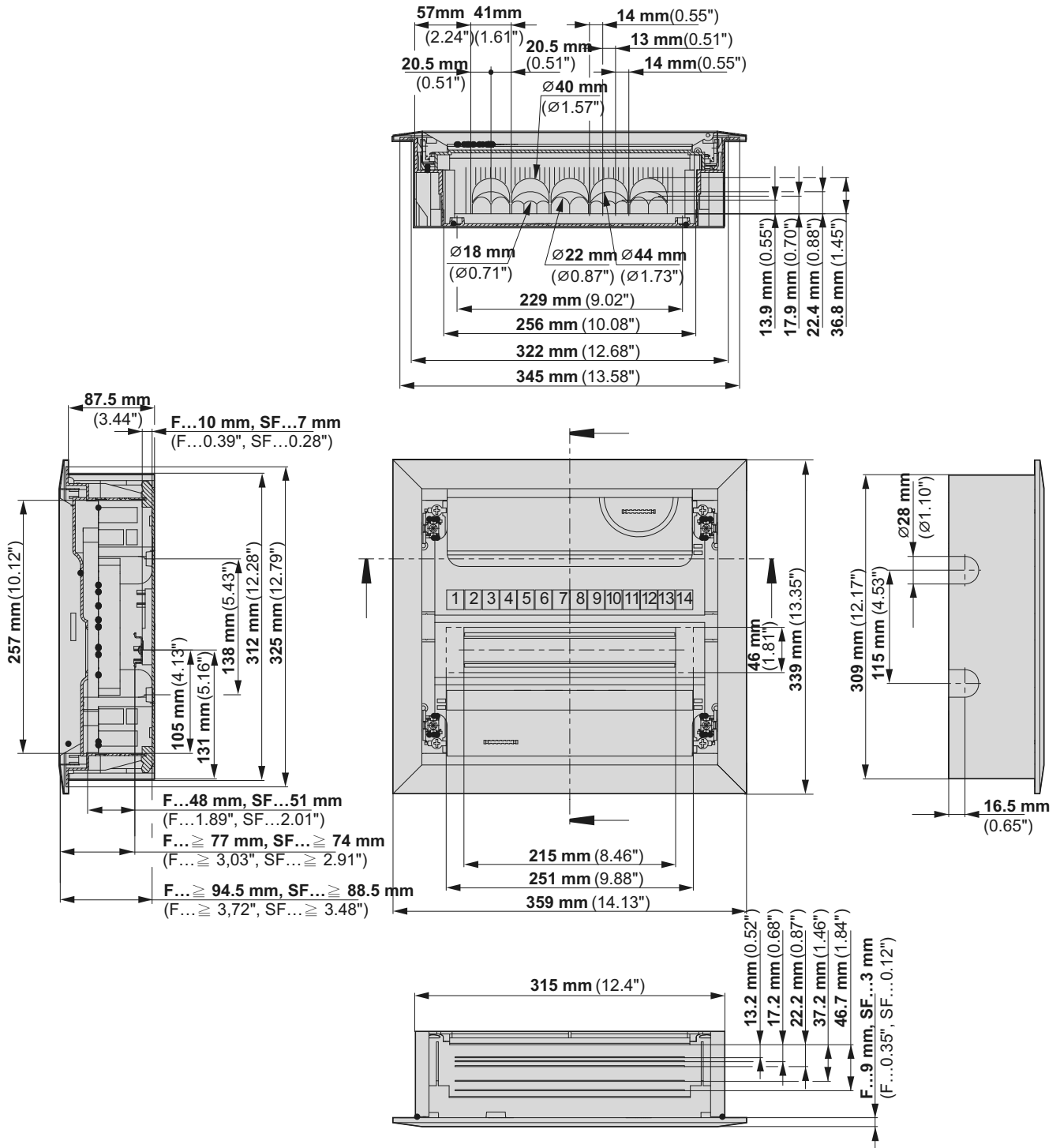
N potential in blue colour, protective-conductor potential in green colour

Vertical offset for terminal carriers in the distribution board to provide easy access to the connections and easy snap-on in the distribution board

## KLV Flush-mounted/Hollow-wall Compact Distribution Board, IP30

### Dimensions (mm)

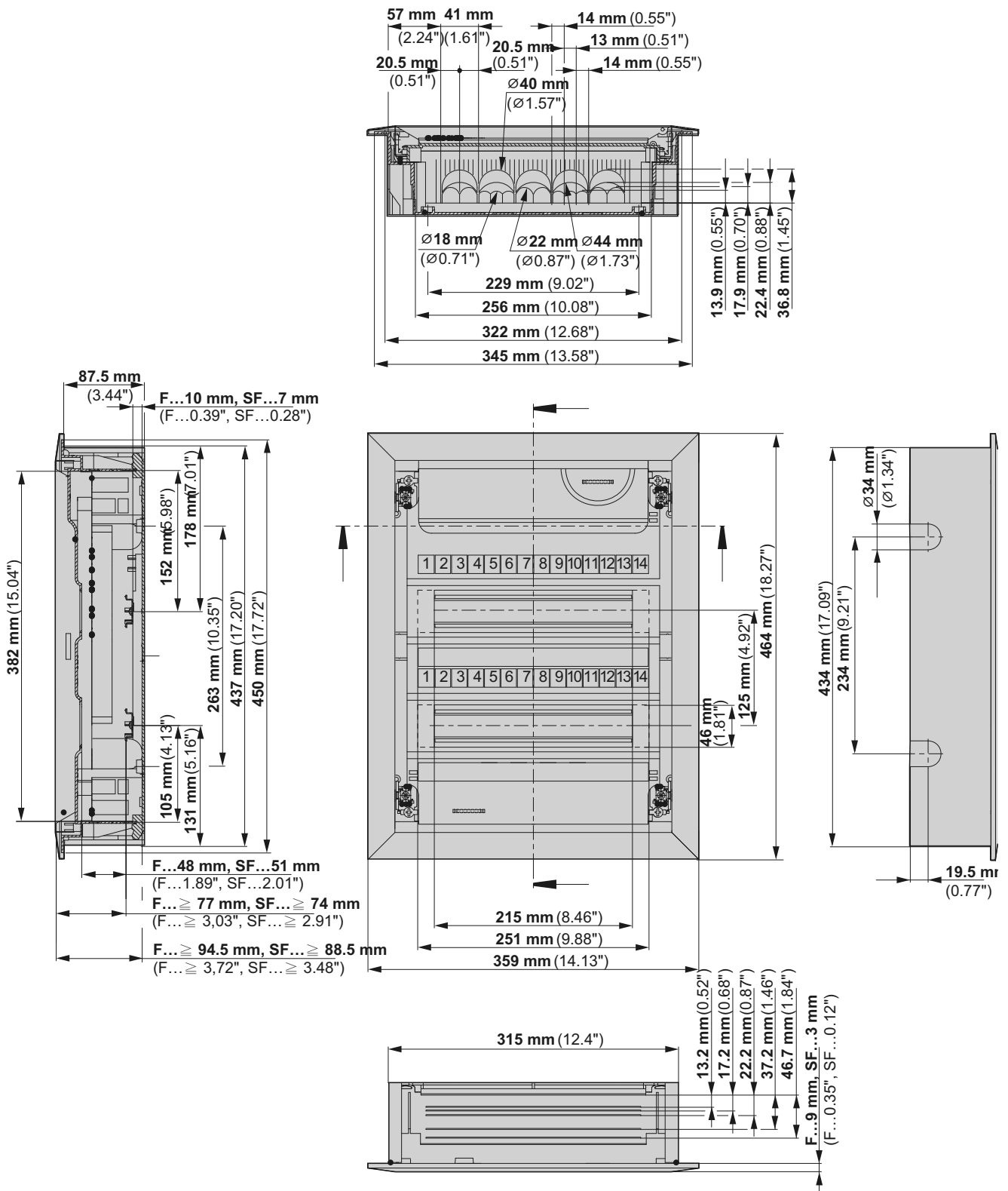
KLV-12...



## KLV Flush-mounted/Hollow-wall Compact Distribution Boards, IP30

### Dimensions (mm)

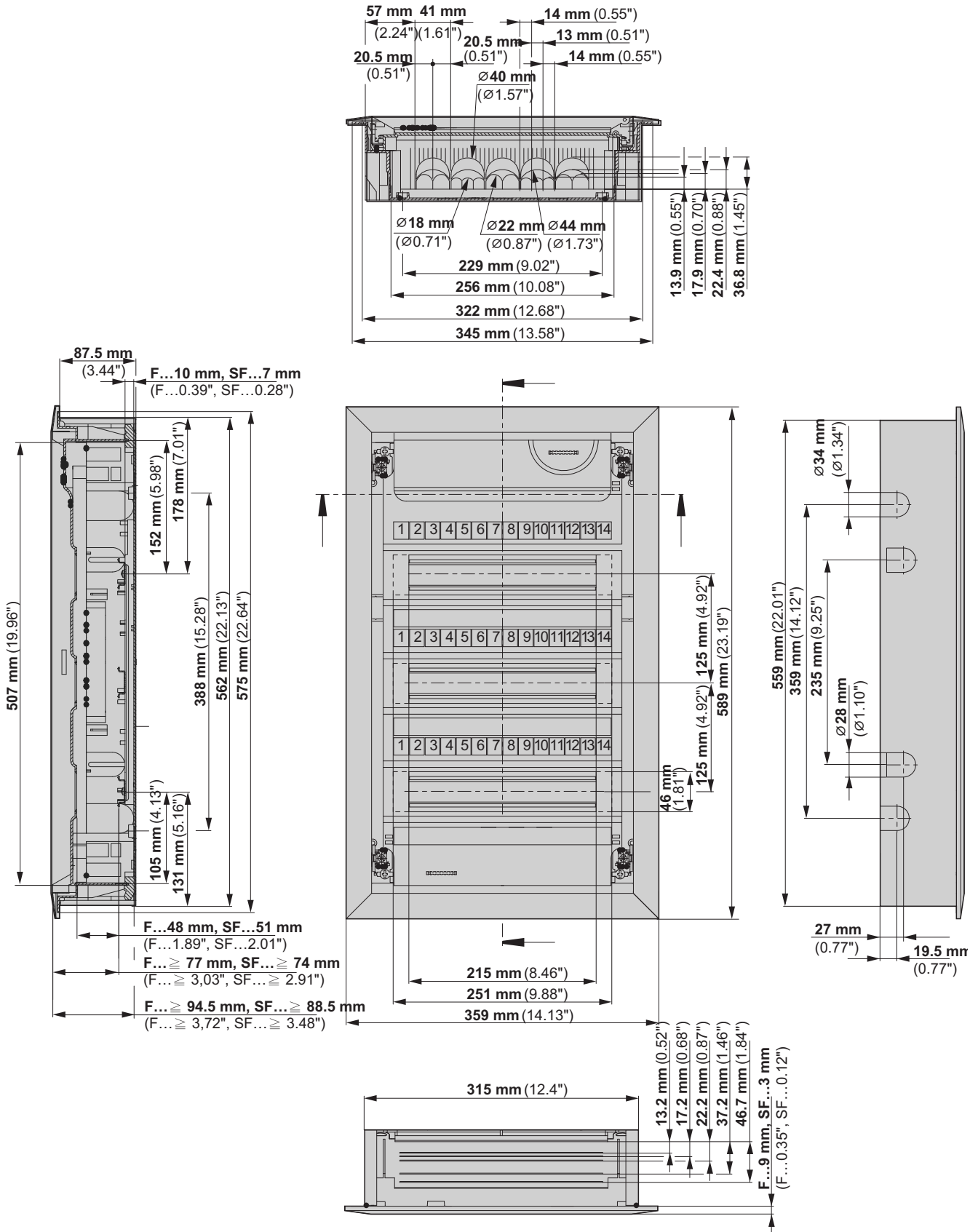
KLV-24...



## KLV Flush-mounted/Hollow-wall Compact Distribution Boards, IP30

### Dimensions (mm)

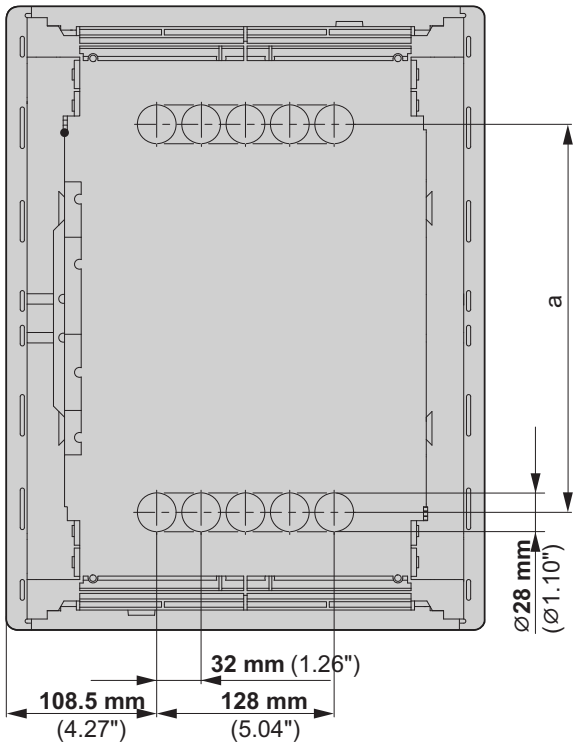
KLV-36...





## KLV Flush-mounted/Hollow-wall Compact Distribution Boards, IP30

### Dimensions (mm)



Type	a [mm]	a ["]
KLV-12...	155	6,10
KLV-24...	280	11,02
KLV-36...	405	15,94
KLV-48...	530	20,87

## IKA Surface-mounted Compact Distribution Boxes, IP65

VT25314



### IKA...-UV ; IKA...-ST and IKA...-OT

- Degree of protection IP65
- Protection class II, totally insulated
- Industrial version (PC) or PRO/Standard version (ABS)
- 1 to 3 rows, 12 and 18 module units
- Mini module with 4, 6 and 8 MU
- Glow wire test 850°C or 650°C

VT24814



- CNC foamed sealing
- Fully removable DIN support rack
- Up to 46 mm wiring area under the DIN rail
- Module tolerance compensation in the cover
- Possibility of direct fixing on the wall
- Depth-adjustable DIN rail
- Neutral and protective conductor terminals

VT24614



- Fast and easy inversion of the door hinges
- Pre-punched metric areas for cable entries
- Intuitive locking and unlocking of the door
- Body RAL 7035, door transparent
- Halogen-free

## IKA Compact Distribution Boxes

### Type Code

<b>IKA</b>	<b>-</b>	<b>2</b>	<b>/</b>	<b>24</b>	<b>S</b>	<b>T</b>	<b>-</b>	<b>UV</b>
Insulation material	-	Rows	/	Module units	Version	Version	-	Material
Compact distribution boxes		Number		MU	Indoor	Door		
Surface-mounted		1		4	S = Screw-type terminal	T = transparent		UV = UV resistant
		2		6	O = without terminal	R = RAL		„_“ = Standard
		3		8				
				12				
				24				
				36				
				18				
				36				
				54				

### IKA System Overview

<b>Compact DB Version</b>	<b>Protection class II (totally insulated)</b>	<b>Complies with European Standard EN 62208</b>	<b>IP65</b>	<b>RAL 7035</b>	<b>N/PE terminals</b>	<b>Doors transparent</b>	<b>Outdoor (UV resistant, ISO 4892-2)</b>
Industrial	■	■ <sup>1)</sup>	■	■ <sup>2)</sup>	■	■ <sup>3)</sup>	■ <sup>4)</sup>
Professional	■	■ <sup>1)</sup>	■	■ <sup>2)</sup>	■	■	-
Standard	■	■ <sup>1)</sup>	■	■ <sup>2)</sup>	-	■	-

<sup>1)</sup> Pre-requisite for building distribution boxes from empty enclosures according to IEC/EN 61439-3

<sup>2)</sup> Body and cover frame, door is transparent

<sup>3)</sup> Doors non-transparent in RAL7035 available upon request

<sup>4)</sup> Eaton nevertheless recommends not to expose the product to direct solar radiation

### IKA Overview of Scope of Delivery

	<b>IKA-...-UV (Industrial)</b>	<b>IKA-...-ST (Professional)</b>	<b>IKA-...-OT (Standard)</b>
Bottom part (PC)	■	-	-
Bottom part (ABS)	-	■	■
Cover frame (PC)	■	-	-
Cover frame (ABS)	-	■	■
Door (PC)	■	■	■
Removable DIN support rack	■ <sup>1)</sup>	■ <sup>1)</sup>	■ <sup>1)</sup>
N/PE screw-type terminal IP2X	■	■	-
Cover for spare areas 6 MU	■	■	-
Closing screws, sealable	■	■	■
Closing caps	■	■	■
Labelling of power circuits	■	■	■

PC: Polycarbonate

ABS: Acrylonitrile butadiene styrene

<sup>1)</sup> For compact distribution boxes containing several rows only



VT25614



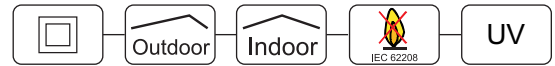
VT25814



VT26014




## IKA-...UV Industrial Compact Distribution Boxes

### IP 65 (IK 08)



- Surface-mounted
- Protection class II, totally insulated
- Industrial version completely made of high-quality polycarbonate, UV resistant according to ISO 4892-2
- 1 to 3 rows, 12 and 18 module units
- Mini modules with 4, 6 and 8 MU
- Completely removable DIN support rack in distribution boxes containing several rows
- Up to 46mm space under the DIN rail to allow for convenient laying of the cables
- Module tolerance compensation integrated in the cover frame
- Possibility of direct fixing on the wall, without the need of drilling holes into the enclosure
- Depth-adjustable DIN rail, 150 mm distance between the rows
- Neutral and protective conductor terminals, IP2X protection against insertion of fingers, with solid screw-technology
- Easy and fast inversion of door hinges
- Side panels with pre-punched metric areas for cable entries
- Intuitive locking and unlocking of doors, cylinder lock optionally with accessories
- Body RAL 7035, door transparent
- Glow wire test 850°C
- Halogen-free

	Rows / MU	Description	Door	Type designation	Article No.	Pack (pcs.)
<b>Mini MU</b>						
VT25314, VT24414 	1 / 4	with 1x N/PE screw termin. 2x 6 + 2x 10 mm <sup>2</sup> each and 1x 35 mm <sup>2</sup> each	transp.	IKA-1/4-ST-UV	174187	1
			RAL	IKA-1/4-SR-UV <sup>1)</sup>	174212	1
VT25314, VT24314 	1 / 6	with 1x N/PE screw termin. 2x 6 + 2x 10 mm <sup>2</sup> each and 1x 35 mm <sup>2</sup> each	transp.	IKA-1/6-ST-UV	174188	1
			RAL	IKA-1/6-SR-UV <sup>1)</sup>	174213	1
VT25114, VT24114 	1 / 8	with 1x N/PE screw termin. 2x 6 + 2x 10 mm <sup>2</sup> each and 1x 35 mm <sup>2</sup> each	transp.	IKA-1/8-ST-UV	174189	1
			RAL	IKA-1/8-SR-UV <sup>1)</sup>	174214	1
<b>12 MU in each row</b>						
VT25014, VT24214 	1 / 12	with 1x N/PE screw termin. 6x 6 + 6x 10 mm <sup>2</sup> each and 1x 25 + 1x 35 mm <sup>2</sup> each	transp.	IKA-1/12-ST-UV	174190	1
			RAL	IKA-1/12-SR-UV <sup>1)</sup>	174215	1
VT24814, VT24014 	2 / 24	with 1x N/PE screw termin. 8x 6 + 8x 10 mm <sup>2</sup> each and 1x 25+1x 35 mm <sup>2</sup> each	transp.	IKA-2/24-ST-UV	174191	1
			RAL	IKA-2/24-SR-UV <sup>1)</sup>	174216	1
VT24614, VT23814 	3 / 36	with 2x N/PE screw termin. 12x 6 + 12x 10 mm <sup>2</sup> each and 1x 25+1x 35 mm <sup>2</sup> each	transp.	IKA-3/36-ST-UV	174192	1
			RAL	IKA-3/36-SR-UV <sup>1)</sup>	174217	1

	Rows / MU	Description	Door	Type designation	Article No.	Pack (pcs.)
<b>18 MU in each row</b>						
VT24914, VT23914 	1 / 18	with 1x N/PE screw termin. 8x 6 + 8x 10 mm <sup>2</sup> each	transp.	IKA-1/18-ST-UV	174193	1
		and 1x 25+1x 35 mm <sup>2</sup> each	RAL	IKA-1/18-SR-UV <sup>1)</sup>	174218	1
VT24714, VT23714 	2 / 36	with 2x N/PE screw termin. 12x 6 + 12x 10 mm <sup>2</sup> each	transp.	IKA-2/36-ST-UV	174194	1
		and 1x 25 + 1x 35 mm <sup>2</sup> each	RAL	IKA-2/36-SR-UV <sup>1)</sup>	174219	1
VT24514, VT23614 	3 / 54	with 2x N/PE screw termin. 16x 6 + 16x 10 mm <sup>2</sup> each	transp.	IKA-3/54-ST-UV	174195	1
		and 2x 25+2x 35 mm <sup>2</sup> each	RAL	IKA-3/54-SR-UV <sup>1)</sup>	174220	1





<sup>1)</sup> Available upon request

## IKA-...ST Professional Compact Distribution Boxes

### IP 65 (IK 08)






- Surface-mounted
- Protection class II, totally insulated
- Professional version: Body made of ABS, door made of polycarbonate
- 1 to 3 rows, 12 and 18 module units
- Mini modules with 4, 6 and 8 MU
- Neutral and protective conductor terminals, IP2X protection against insertion of fingers, with solid screw-technology
- Completely removable DIN support rack in distribution boxes containing several rows
- Up to 46mm space under the DIN rail to allow for convenient laying of the cables
- Module tolerance compensation integrated in the cover frame
- Possibility of direct fixing on the wall, without the need of drilling holes into the enclosure
- Depth-adjustable DIN rail, 150 mm distance between the rows
- Easy and fast inversion of door hinges
- Side panels with pre-punched metric areas for cable entries
- Intuitive locking and unlocking of doors, cylinder lock optionally with accessories
- Body RAL 7035, door transparent
- Glow wire test 650°C
- Halogen-free

	Rows / MU	Description	Door	Type designation	Article No.	Pack (pcs.)
<b>Mini MU</b>						
	1 / 4	with 1x N/PE screw termin. 2x 6 + 2x 10 mm <sup>2</sup> each and 1x 35 mm <sup>2</sup> each	transp.	IKA-1/4-ST	174221	1
	1 / 6	with 1x N/PE screw termin. 2x 6 + 2x 10 mm <sup>2</sup> each and 1x 35 mm <sup>2</sup> each	transp.	IKA-1/6-ST	174222	1
	1 / 8	with 1x N/PE screw termin. 2x 6 + 2x 10 mm <sup>2</sup> each and 1x 35 mm <sup>2</sup> each	transp.	IKA-1/8-ST	174196	1
<b>12 MU in each row</b>						
	1 / 12	with 1x N/PE screw termin. 6x 6 + 6x 10 mm <sup>2</sup> each and 1x 25 + 1x 35 mm <sup>2</sup> each	transp.	IKA-1/12-ST	174197	1
	2 / 24	with 1x N/PE screw termin. 8x 6 + 8x 10 mm <sup>2</sup> each and 1x 25 + 1x 35 mm <sup>2</sup> each	transp.	IKA-2/24-ST	174198	1
	3 / 36	with 2x N/PE screw termin. 12x 6 + 12x 10 mm <sup>2</sup> each and 1x 25 + 1x 35 mm <sup>2</sup> each	transp.	IKA-3/36-ST	174199	1

# Compact Distribution Boxes

**xComfort**







	Rows / MU	Description	Door	Type designation	Article No.	Pack (pcs.)
<b>18 MU in each row</b>						
 <p>VT24914</p>	1 / 18	with 1x N/PE screw termin. 8x 6 + 8x 10 mm <sup>2</sup> each and 1x 25 + 1x 35 mm <sup>2</sup> each	transp.	IKA-1/18-ST	174200	1
 <p>VT24714</p>	2 / 36	with 2x N/PE screw termin. 12x 6 + 12x 10 mm <sup>2</sup> each and 1x 25 + 1x 35 mm <sup>2</sup> each	transp.	IKA-2/36-ST	174201	1
 <p>VT24514</p>	3 / 54	with 2x N/PE screw termin. 16x 6 + 16x 10 mm <sup>2</sup> each and 2x 25 + 2x 35 mm <sup>2</sup> each	transp.	IKA-3/54-ST	174202	1

## Standard IKA-...OT Compact Distribution Boxes

### IP 65 (IK 08)






- Surface-mounted
- Protection class II, totally insulated
- Standard version: Body made of ABS, door made of polycarbonate
- No neutral and protective conductor terminals, no cover for spare areas
- 1 to 3 rows, 12 and 18 module units
- Mini modules with 4, 6 and 8 module units
- Completely removable DIN support rack in distribution boxes containing several rows
- Up to 46mm space under the DIN rail to allow for convenient laying of the cables
- Module tolerance compensation integrated in the cover frame
- Possibility of direct fixing on the wall, without the need of drilling holes into the enclosure
- Depth-adjustable DIN rail, 150 mm distance between the rows
- Easy and fast inversion of door hinges
- Side panels with pre-punched metric areas for cable entries
- Intuitive locking and unlocking of doors, cylinder lock optionally with accessories
- Body RAL 7035, door transparent
- Glow wire test 650°C
- Halogen-free






	Rows / MU	Description	Door	Type designation	Article No.	Pack (pcs.)
<b>Mini MU</b>						
	1 / 4	no neutral and protective conductor terminals, no cover for spare areas	transp.	IKA-1/4-OT	174203	1
	1 / 6	no neutral and protective conductor terminals, no cover for spare areas	transp.	IKA-1/6-OT	174204	1
	1 / 8	no neutral and protective conductor terminals, no cover for spare areas	transp.	IKA-1/8-OT	174205	1
<b>12 MU in each row</b>						
	1 / 12	no neutral and protective conductor terminals, no cover for spare areas	transp.	IKA-1/12-OT	174206	1
	2 / 24	no neutral and protective conductor terminals, no cover for spare areas	transp.	IKA-2/24-OT	174207	1
	3 / 36	no neutral and protective conductor terminals, no cover for spare areas	transp.	IKA-3/36-OT	174208	1

# Compact Distribution Boxes

**xComfort**

	Rows / MU	Description	Door	Type designation	Article-No.	Pack (pcs.)
<b>18 MU in each row</b>						
 <p>VT24914</p>	1 / 18	no neutral and protective conductor terminals, no cover for spare areas	transp.	IKA-1/18-OT	174209	1
 <p>VT24714</p>	2 / 36	no neutral and protective conductor terminals, no cover for spare areas	transp.	IKA-2/36-OT	174210	1
 <p>VT24514</p>	3 / 54	no neutral and protective conductor terminals, no cover for spare areas	transp.	IKA-3/54-OT	174211	1

## Legend IKA

Symbol	Explanation
	Totally insulated, according to EN 60670-24.
	Only for indoor applications.
	For indoor applications and outdoor applications. Outdoor use under canopy is recommended.
	Final product UV resistant according ISO 4892-2.
	Resistance to abnormal heat and fire according IEC/EN 62208.

## Technical Data for IKA

	Unit
<b>Electrical</b>	
Versions according to	IEC/EN 62208; IEC/EN 60670-24
Degree of protection	IP65 (IK08) according to EN 60529
Protection class	II, totally insulated
Rated voltage	V 415 AC
Insulation voltage	V 1000 AC, 1500 DC
Max. power loss admitted for all devices installed in the distribution box, at a difference in temperature of 25°K:	
1/4	W 14.7
1/6	W 16.5
1/8	W 18.7
1/12	W 26.0
2/24	W 39.1
3/36	W 49.2
1/18	W 35.3
2/36	W 47.6
3/54	W 59.6
<b>Mechanical</b>	
Material:	
Enclosure	Polycarbonate (Industry), ABS (Professional, Standard)
Door	Polycarbonate
Colour of the enclosure	grey RAL 7035
Colour of the door	transparent; grey RAL 7035
Distance between the rows	mm 150
Support rail for devices	DIN rail 35 x 7.5 mm sheet steel, galvanized
UV resistance	all IKA...-UV resistant according to ISO 4892-2
Type of installation	
IKA-...-UV	Indoor or Outdoor, under canopy, surface-mounted
IKA-...-ST	Indoor, surface-mounted
IKA-...-OT	Indoor, surface-mounted
Halogene-free, RoHs	yes
<b>Pre-punched metric areas</b>	
IKA-1/4...., IKA-1/6....	Top: 2xM25 + 1xM40 Bottom: 2xM25 + 1xM40 Rear panel: 2x(2xM25)
IKA-1/8....	Top: 4xM25 + 1xM40 Bottom: 4xM25 + 1xM40 Rear panel: 2x(2xM25)
IKA-1/12....	Top: 6xM20 + 2xM25 + 2xM32 + 1xM40 Bottom: 6xM20 + 2xM25 + 2xM32 + 1xM40 Side panel: 4xM25 Rear panel: 2x(1xM25 + 1xM32 + 1xM25)
IKA-2/24....	Top: 6xM20 + 2xM25 + 2xM32 + 1xM40 Bottom: 6xM20 + 2xM25 + 2xM32 + 1xM40 Side panel: 4xM25 Rear panel: 2x(1xM25 + 1xM32 + 1xM25)
IKA-3/36....	Top: 6xM20 + 2xM25 + 2xM32 + 1xM40 Bottom: 6xM20 + 2xM25 + 2xM32 + 1xM40 Side panel: 4xM25 Rear panel: 2x(1xM25 + 1xM32 + 1xM25)
IKA-1/18...., IKA-2/36...., IKA-3/54....	Top: 12xM20 + 6xM25 + 2xM32 + 1xM40 Bottom: 12xM20 + 6xM25 + 2xM32 + 1xM40 Side panel: 4xM25 Rear panel: 2x(1xM25 + 1xM32 + 1xM25)

## Technical Data IKA

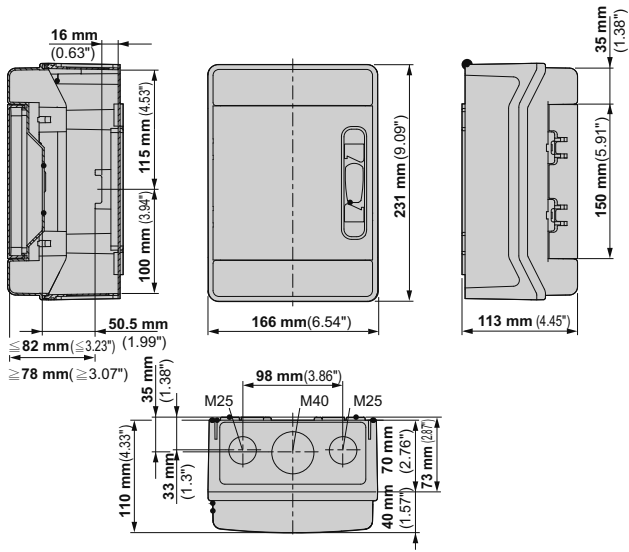
### Max. connection cross-sections and equipment of N/PE screw terminals

	N [mm <sup>2</sup> ]	PE [mm <sup>2</sup> ]
IKA-1/4....	2x 2.5-6 + 2x 4-10+ 1x 16-35	2x 2.5-6 + 2x 4-10+ 1x 16-35
IKA-1/6....	2x 2.5-6 + 2x 4-10+ 1x 16-35	2x 2.5-6 + 2x 4-10+ 1x 16-35
IKA-1/8....	4x 2.5-6 + 4x 4-10+ 1x 16-35	4x 2.5-6 + 4x 4-10+ 1x 16-35
IKA-1/12....	6x 2.5-6 + 6x 4-10+ 1x 10-25+ 1x 16-35	6x 2.5-6 + 6x 4-10+ 1x 10-25+ 1x 16-35
IKA-2/24....	8x 2.5-6 + 8x 4-10+ 1x 10-25+ 1x 16-35	8x 2.5-6 + 8x 4-10+ 1x 10-25+ 1x 16-35
IKA-3/36....	12x 2.5-6 + 12x 4-10+ 1x 10-25+ 1x 16-35	12x 2.5-6 + 12x 4-10+ 1x 10-25+ 1x 16-35
IKA-1/18....	8x 2.5-6 + 8x 4-10+ 1x 10-25+ 1x 16-35	8x 2.5-6 + 8x 4-10+ 1x 10-25+ 1x 16-35
IKA-2/36....	12x 2.5-6 + 12x 4-10+ 1x 10-25+ 1x 16-35	12x 2.5-6 + 12x 4-10+ 1x 10-25+ 1x 16-35
IKA-3/54....	16x 2.5-6 + 16x 4-10+ 1x 10-25+ 1x 16-35	16x 2.5-6 + 16x 4-10+ 1x 10-25+ 1x 16-35

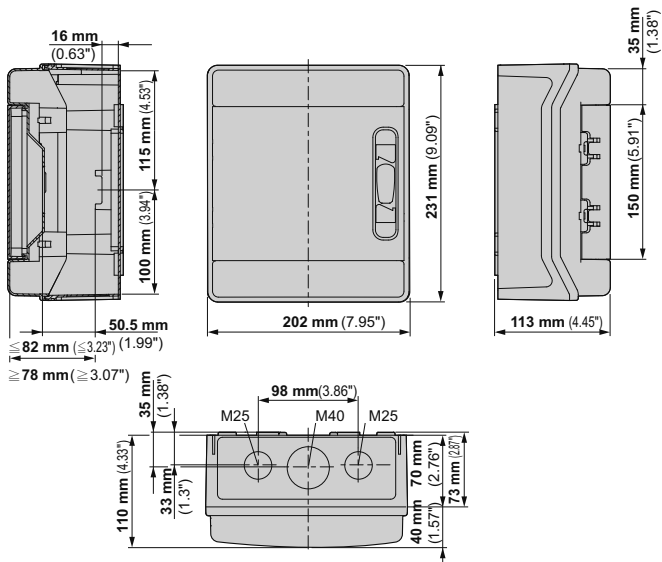
Note: Tightening torque values [Nm] of the N/PE screw terminals are directly indicated on the terminal enclosure.

## Dimensions (mm)

IKA-1/4....

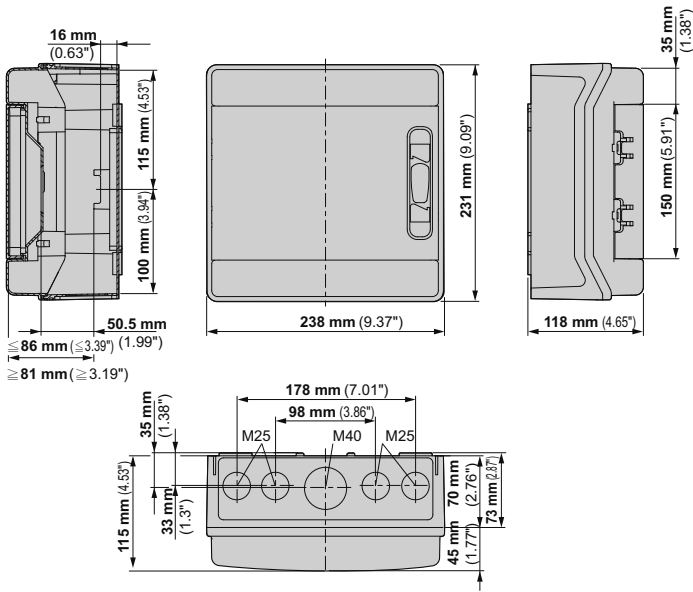


IKA-1/6....

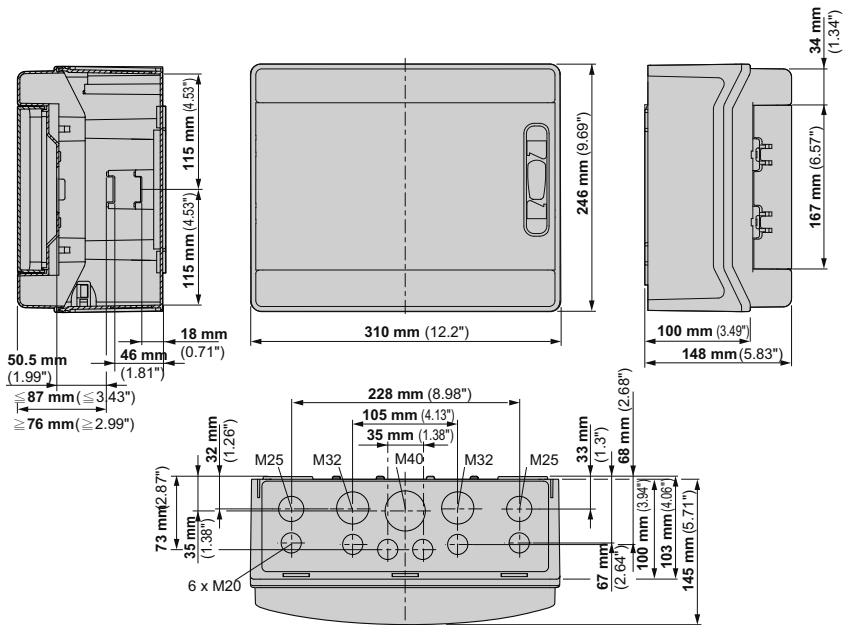


## Dimensions (mm)

IKA-1/8....

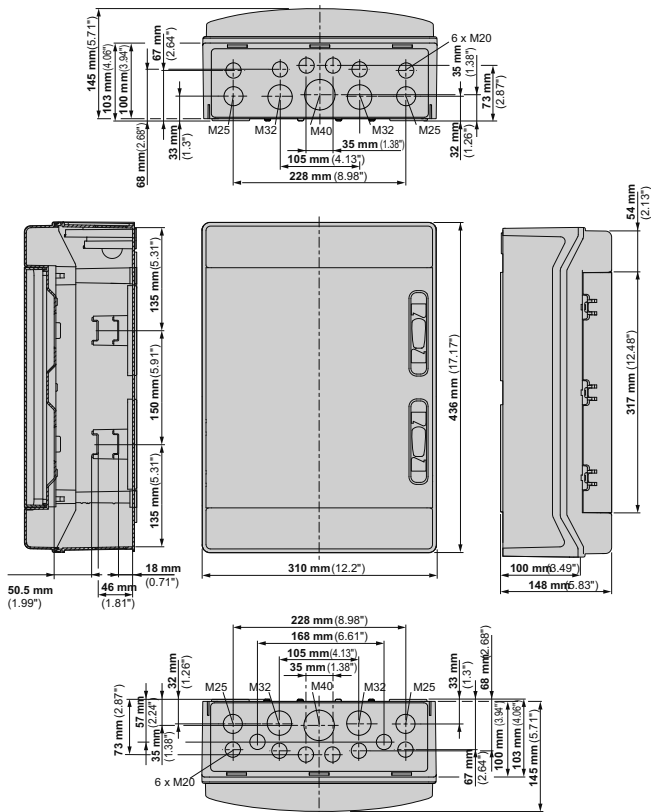


IKA-1/12....

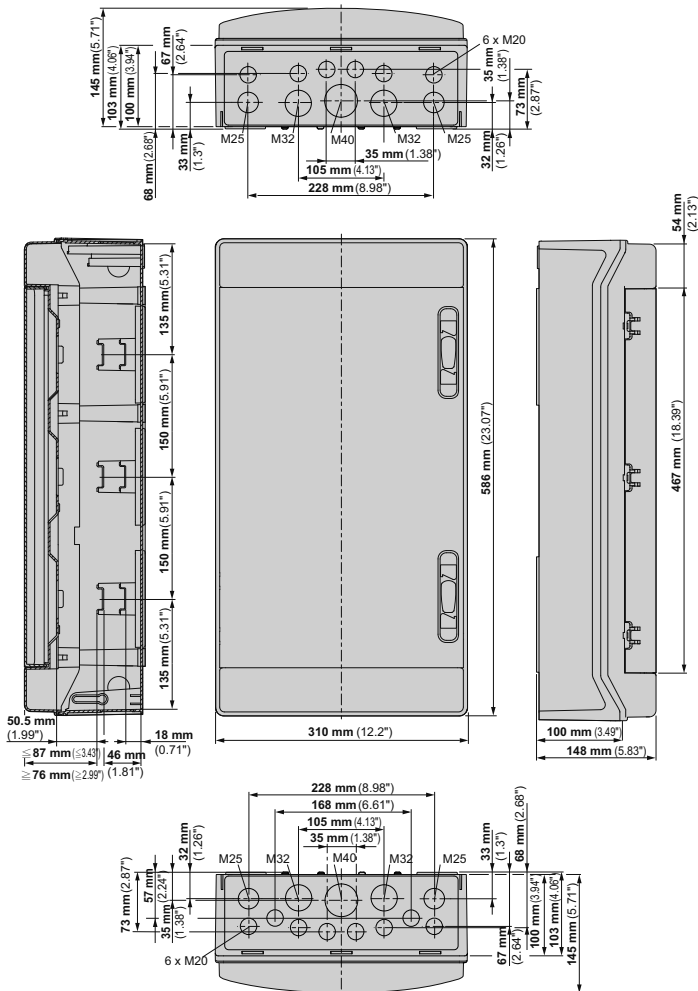


## Dimensions (mm)

### IKA-2/24....

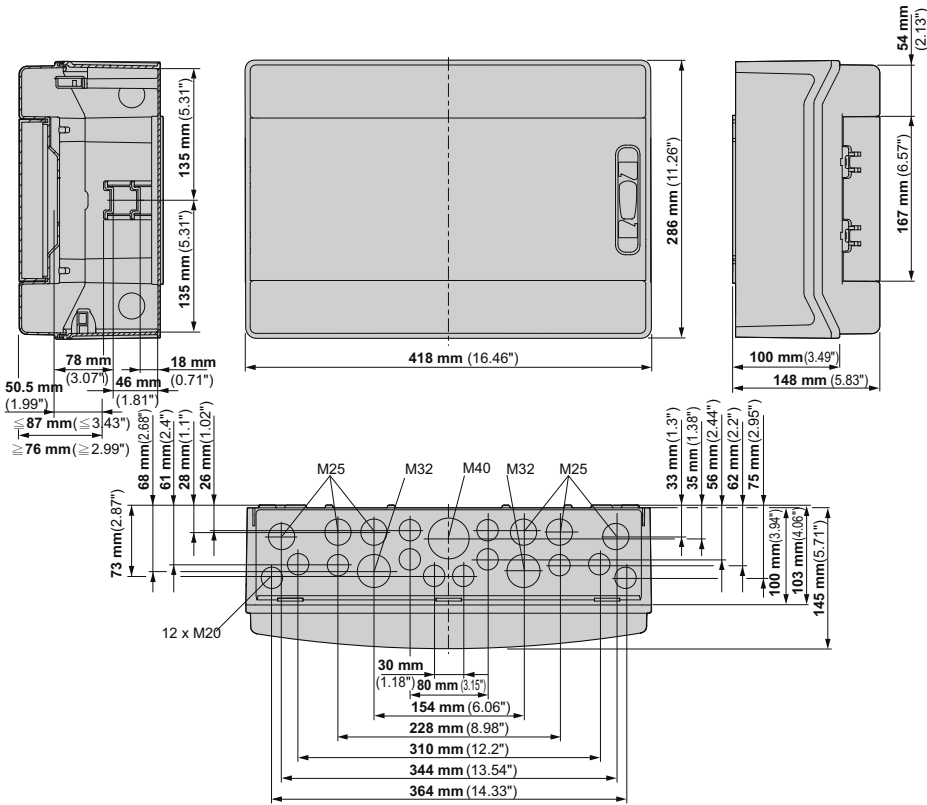


### IKA-3/36....

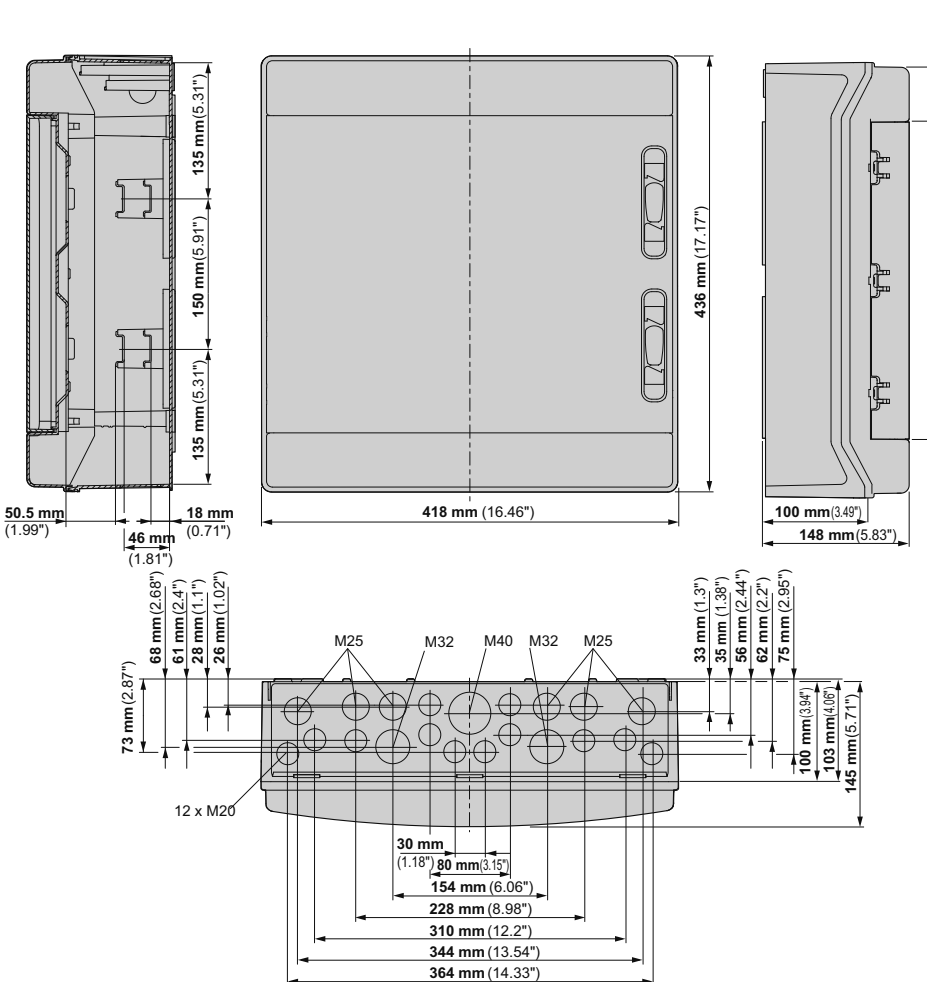


## Dimensions (mm)

IKA-1/18....

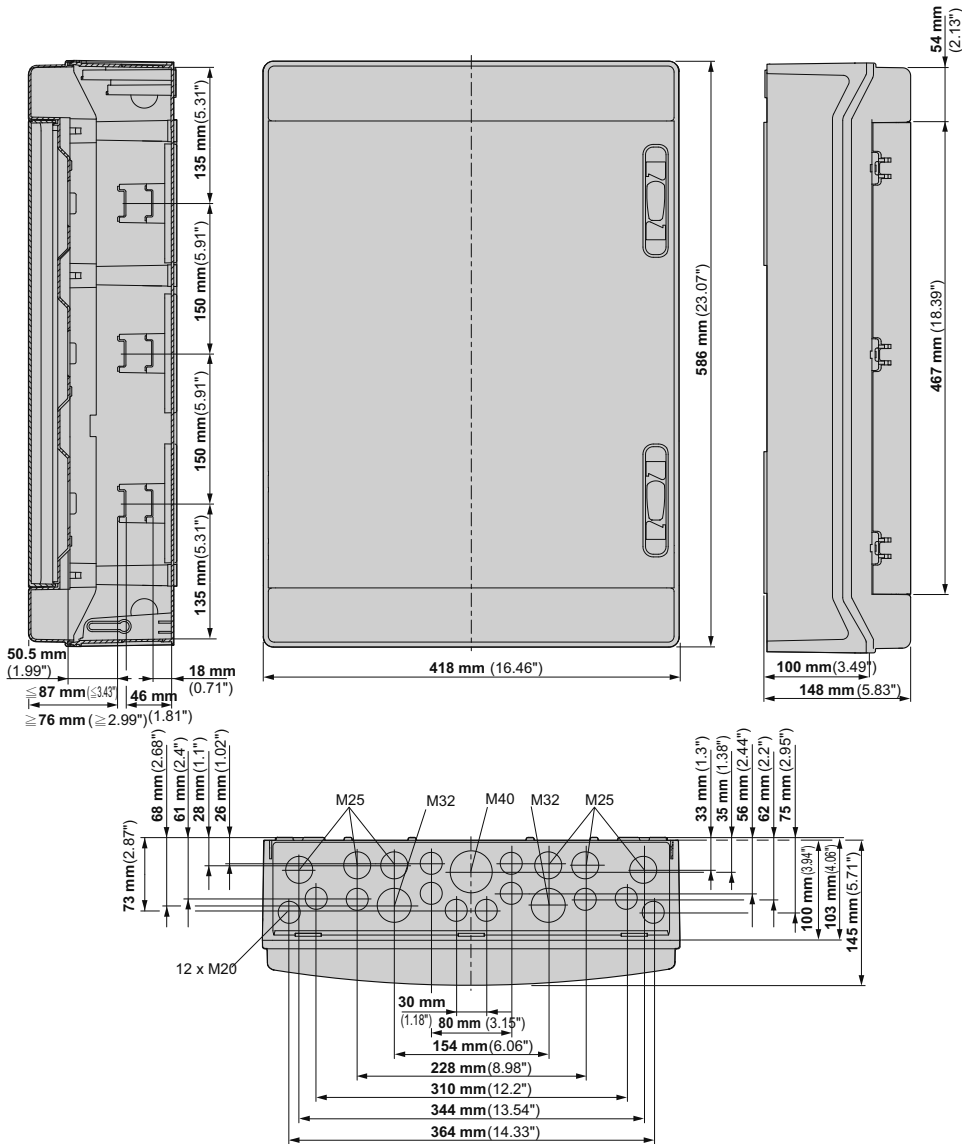


IKA-2/36....



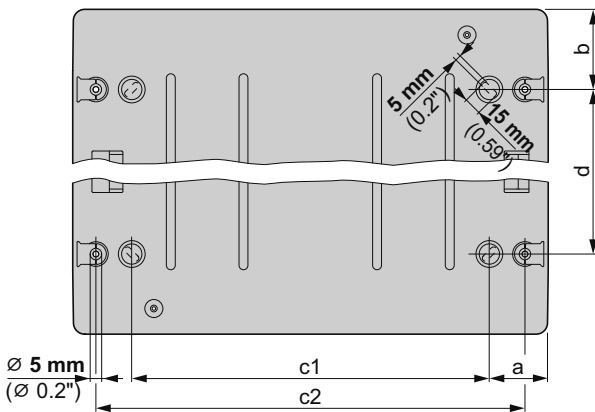
## Dimensions (mm)

IKA-3/54....



## Dimensions (mm)

Holes for wall-mounting IKA-...



Type	a [mm]	b [mm]	c1 [mm]	c2 [mm]	d [mm]
IKA-1/4...	45	55	76	126	121
IKA-1/6...	52.5	55	97	162	121
IKA-1/8...	52.5	55	133	198	121
IKA-1/12...	51.5	62.5	207	270	121
IKA-2/24...	51.5	70.5	207	270	295
IKA-3/36...	51.5	70.5	207	270	445
IKA-1/18...	51.5	70.5	315	378	145
IKA-2/36...	51.5	70.5	315	378	295
IKA-3/54...	51.5	70.5	315	378	445

## Multimedia Distribution Boards

P10\_KLV-36UPM-F



### **KLV-...UP and KLV-...HW**





- 3 to 4 rows
- Hollow-wall and flush-mounted versions
- Flat and super flat door design
- Integrated spirit level
- 3D plaster compensation
- Top row carrier rail
- Micro-perforated mounting plate
- Cable holder
- Device holder
- 2-fold electricity socket
- Pre-punched cable entries, on all sides
- Degree of protection IP30
- Protection class II, fully insulated
- Door and cover frame, sheet steel RAL 9016
- Low halogen level
- IEC/EN 60670-24

## Multimedia Distribution Boards Flush-mounted/Hollow-wall KLV-...UPM, KLV-...HWM

IP 30



- According to IEC/EN 60670-24
- Door with ventilation louvers and frame made of sheet steel
- 1 DIN carrier rail, e.g. for accommodating patch modules, 1 mounting plate with punch holes for fixing active and passive devices
- Device and cable holders for clear arrangement of devices
- 2-fold electricity socket incl. EURO2 adapter with plug-type terminal up to 2.5 mm<sup>2</sup>
- Suitable for equipment of up to 80 mm max. depth
- Wall pan made of plastic with integrated spirit level
- Cable guidance slide with snap-on fixing
- Door with frame made of sheet steel, with 3D plaster compensation (compensation possible up to 18 mm), colour RAL 9016, optionally flat (F) or super flat (SF)
- Easy inversion of door hinges, hinges for manual handling
- Flat rotary door closure, easy to replace by one of the lock versions
- Hollow-wall anchor for fixing in the hollow wall (hollow-wall mounting only)
- Nail straps for fixing at the wall (flush-mounting only)
- Connection brackets for linking wall pans in pairs or fixing them on flush-mounted or hollow-wall mounted compact distribution boards KLV-UP..., KLV-HW...
- Dimensions according to standard distribution boards KLV-UP..., KLV-HW...
- Dimensions of the distribution boards according to DIN 43871

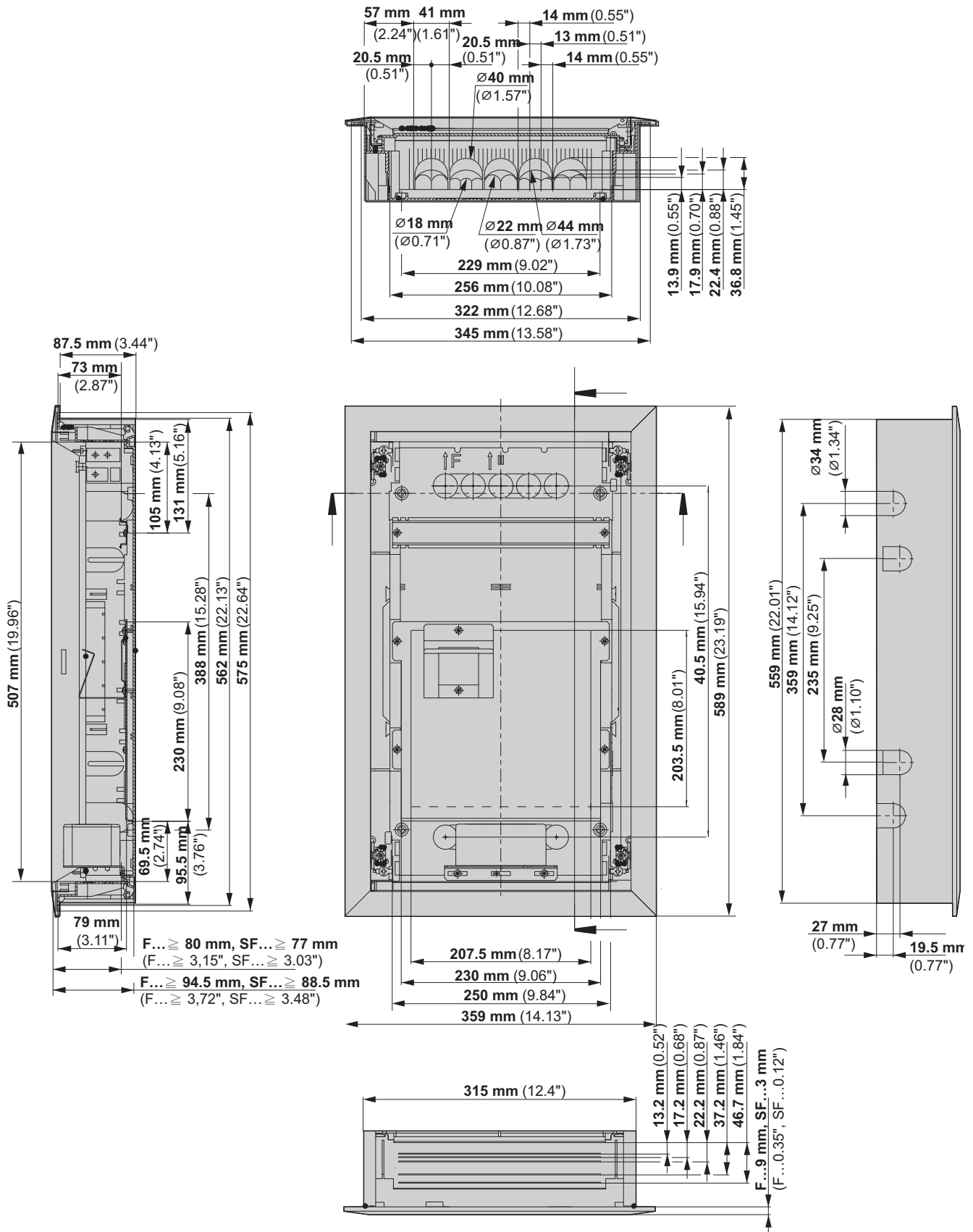
	Rows / DIN / MPL	Description	Type designation	Article No.	Pack (pcs.)
<b>Flush-mounting UPM</b>					
P10_KLV-36UPM-F 	3 / 12+2 /	1st row DIN carrier rail, 2nd and 3rd row w. micro-perforated metal mounting plate for telecommunication devices, 2-fold electricity socket	KLV-36UPM-F	178830	1/60
			KLV-36UPM-SF	178831	1/60
P10_KLV-48UPM-F 	4 / 12+2 / 1	1st row DIN carrier rail, 2nd to 4th row w. micro-perforated metal mounting plate for telecommunication devices, 2-fold electricity socket	KLV-48UPM-F	178832	1/45
			KLV-48UPM-SF	178833	1/45
<b>Hollow-wall mounting HWM</b>					
P10_KLV-36HWM-F 	3 / 12+2 / 1	1st row DIN carrier rail, 2nd and 3rd row w. micro-perforated metal mounting plate for telecommunication devices, 2-fold electricity socket	KLV-36HWM-F	178834	1/60
			KLV-36HWM-SF	178835	1/60
P10_KLV-48HWM-F 	4 / 12+2 / 1	1st row DIN carrier rail, 2nd to 4th row w. micro-perforated metal mounting plate for telecommunication devices, 2-fold electricity socket	KLV-48HWM-F	178836	1/45
			KLV-48HWM-SF	178837	1/45

\* Note: Technical data same as for KLV-UP..., KLV-HW...

## Multimedia Distribution Board - Flush-mounted/Hollow-wall KLV...UPM, KLV...HWM

### Dimensions (mm)

KLV-36...M-F (SF)





## Compact DBs - Delivery Form for Projects

P11\_KLV-UP1-4PR



### KLV-...-4PR

- Same content as flush-mounted/hollow-wall or multimedia distribution boards
- Delivery form optimized for projects
- Finish in 2 or 3 steps
- N/PE combined plug-type terminals
- Multimedia
- Door and cover frame also available in other RAL colours

P11\_KLV-F1U1PP-4PR



P13\_KLV-2U1PP-4PR



P14\_KLV-F2-4PR



## Delivery Form for Projects - Flush-mounted/Hollow-wall KLV-...4PR

IP 30



- Delivery form for projects, separate ordering and delivery of assemblies: Wall pan + equipment set
- Approved according to IEC/EN 60670-24 and IEC/EN 62208, i.e. for distributions according to IEC/EN 61439-3
- Wall pan, empty, optionally for flush-mounting or hollow-wall mounting
- Equipment set optionally with door and frame in flat or super flat design
- Technical parameters same as compact distribution boards KLV-...

Description	Rows / MU	Type designation	Article No.	Pack (pcs.)
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### Delivery form for projects - Wall pan

P11\_KLV-UP1-4PR



Wall pan, empty, <b>for flush-mounting</b> with plaster protection and nail straps, integrated spirit level, flange slide, for equipment set	1 / 12+2	KLV-UP1-4PR	178838	1/90
	2 / 24+4	KLV-UP2-4PR	178839	1/60
	3 / 36+6	KLV-UP3-4PR	178840	1/60
	4 / 48+8	KLV-UP4-4PR	178841	1/45

P11\_KLV-UP2-4PR



Wall pan, empty, <b>for hollow-wall m.</b> with plaster protection and hollow-wall anchor, integrated spirit level, flange slide, for equipment set	1 / 12+2	KLV-HW1-4PR	178842	1/90
	2 / 24+4	KLV-HW2-4PR	178843	1/60
	3 / 36+6	KLV-HW3-4PR	178844	1/60
	4 / 48+8	KLV-HW4-4PR	178845	1/45

### Delivery form for projects - Equipment set for flush-mounting

P11\_KLV-F1UPP-4PR



With DIN rail structure, door with door frame, optionally flat (F) or super flat (SF), <b>N-PE combined plug-type term.</b> , stable device cover, cable holder	1 / 12+2	KLV-F1UPP-4PR	178846	1/90
	2 / 24+4	KLV-F2UPP-4PR	178847	1/60
	3 / 36+6	KLV-F3UPP-4PR	178848	1/60
	4 / 48+8	KLV-F4UPP-4PR	178849	1/45
	1 / 12+2	KLV-SF1UPP-4PR	178850	1/90
	2 / 24+4	KLV-SF2UPP-4PR	178851	1/60
	3 / 36+6	KLV-SF3UPP-4PR	178852	1/60
	4 / 48+8	KLV-SF4UPP-4PR	178853	1/45

### Delivery form for projects - Equipment set for hollow-wall mounting

P11\_KLV-F2HWP-4PR



With DIN rail structure, door with door frame, optionally flat (F) or super flat (SF), <b>N-PE combined plug-type term.</b> , stable device cover, cable holder	1 / 12+2	KLV-F1HWP-4PR	178854	1/90
	2 / 24+4	KLV-F2HWP-4PR	178855	1/60
	3 / 36+6	KLV-F3HWP-4PR	178856	1/60
	4 / 48+8	KLV-F4HWP-4PR	178857	1/45
	1 / 12+2	KLV-SF1HWP-4PR	178858	1/90
	2 / 24+4	KLV-SF2HWP-4PR	178859	1/60
	3 / 36+6	KLV-SF3HWP-4PR	178860	1/60
	4 / 48+8	KLV-SF4HWP-4PR	178861	1/45

### Delivery form for projects - Equipment set for flush-mounting or hollow-wall mounting

P11\_KLV-F3M-4PR





1x DIN rail and <b>micro-perforated metal mounting plate</b> , door with frame, optionally flat (F) or super flat (SF), cable and device holder, 2-fold electricity socket, connection brackets	3 / 36+6	KLV-F3M-4PR	178862	1/60
	4 / 48+8	KLV-F4M-4PR	178863	1/45
	3 / 36+6	KLV-SF3M-4PR	178864	1/60
	4 / 48+8	KLV-SF4M-4PR	178865	1/45


## Delivery Form for Projects - Flush-mounted/Hollow-wall mounted KLV-...4PR

IP 30





Description	Rows / MU	Type designation	Article No.	Pack (pcs.)
<b>Delivery form for projects - Interieur, flush-mounted</b>				
P13_KLV-2UPP-4PR  With DIN rail structure, <b>N-PE comb. plug-type term.</b> , N-FI term. stable device cover, cable holder	1 / 12+2	KLV-1UPP-4PR	178866	1/90
	2 / 24+4	KLV-2UPP-4PR	178867	1/60
	3 / 36+6	KLV-3UPP-4PR	178868	1/60
	4 / 48+8	KLV-4UPP-4PR	178869	1/45

<b>Delivery form for projects - Interieur, hollow-wall mounted</b>				
P13_KLV-3UPP-4PR  With DIN rail structure, <b>N-PE comb. plug-type term.</b> , N-FI term. stable device cover, cable holder	1 / 12+2	KLV-1HWP-4PR	178870	1/90
	2 / 24+4	KLV-2HWP-4PR	178871	1/60
	3 / 36+6	KLV-3HWP-4PR	178872	1/60
	4 / 48+8	KLV-4HWP-4PR	178873	1/45

<b>Delivery form for projects - Extérieur</b>				
vt115814  Door with door frame, optionally flat (F) or super flat (SF), with 3D plaster compensation	1 / 12+2	KLV-F1-4PR	178874	1/90
	2 / 24+4	KLV-F2-4PR	178875	1/60
	3 / 36+6	KLV-F3-4PR	178876	1/60
	4 / 48+8	KLV-F4-4PR	178877	1/45
	1 / 12+2	KLV-SF1-4PR	178878	1/90
	2 / 24+4	KLV-SF2-4PR	178879	1/60
	3 / 36+6	KLV-SF3-4PR	178880	1/60
	4 / 48+8	KLV-SF4-4PR	178881	1/45

vt119414  Door with <b>ventilation slots</b> and door frame, optionally flat (F) or super flat (SF), with 3D plaster compensation	3 / 36+6	KLV-F3L-4PR	178882	1/60
	4 / 48+8	KLV-F4L-4PR	178883	1/45
	3 / 36+6	KLV-SF3L-4PR	178884	1/60
	4 / 48+8	KLV-SF4L-4PR	178885	1/45

<b>Delivery form for projects - Extérieur, coloured</b>				
vt115914  Door with door frame, optionally flat (F) or super flat (SF), with 3D plaster compensation, RAL* = Colour requested	1 / 12+2	KLV-F1-4PR-RAL*	178886	1/90
	2 / 24+4	KLV-F2-4PR-RAL*	178887	1/60
	3 / 36+6	KLV-F3-4PR-RAL*	178888	1/60
	4 / 48+8	KLV-F4-4PR-RAL*	178889	1/45
	1 / 12+2	KLV-SF1-4PR-RAL*	178890	1/90
	2 / 24+4	KLV-SF2-4PR-RAL*	178891	1/60
	3 / 36+6	KLV-SF3-4PR-RAL*	178892	1/60
	4 / 48+8	KLV-SF4-4PR-RAL*	178893	1/45

P14_KLV-F4L-4PR  Door with <b>ventilation slots</b> and door frame, optionally flat (F) or super flat (SF), with 3D plaster compensation, RAL* = Colour requested	3 / 36+6	KLV-F3L-4PR-RAL*	178894	1/60
	4 / 48+8	KLV-F4L-4PR-RAL*	178895	1/45
	3 / 36+6	KLV-SF3L-4PR-RAL*	178896	1/60
	4 / 48+8	KLV-SF4L-4PR-RAL*	178897	1/45

\* Note: RAL colour code according to colour index, door bolt always RAL7037 dusty grey

## BF-O Surface-mounted Flat Distribution Boards, IP30

wa\_vt00913



- Surface-mounted Flat Distribution Board
- 2- to 6-rows 24MU/row (Versions A, E, C)
- 4- to 6-rows 33MU/row (Versions A, C, P)
- IP30
- Protection class I

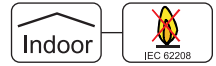
wa\_vt06213



- Sheet steel enclosure polyesterpowder coated (white RAL 9016; Version C also in grey RAL 7035)
- Prepared for Eaton MCCB Incoms
- Sheet steel front plates with contacting to the enclosure
- Removable DIN-rail frame
- Generous wiring space
- 150 mm DIN-rail distance (ideal for switchgear busbar system)
- Complete enclosure (including N/PE-terminals)
- Depth: 140 mm
- Universal mounting plate

## BF-O Surface-mounted Flat Distribution Boards, IP30, Version A

### Surface-mounted Flat Distribution Boards BF-O-./...-A, complete



Scope of Delivery:

- Enclosure
- Door with Rotary Door handle
- DIN-rail frame
- Cable Entry Flange (above)
- Front plates
- Neutral and protective earth terminals

MU per row / Number of rows	Type designation	Article No.	Pack (pcs.)
<b>White</b>			
24 / 2	BF-O-2/48-A	240732	1
24 / 3	BF-O-3/72-A	240733	1
24 / 4	BF-O-4/96-A	240734	1
24 / 5	BF-O-5/120-A	240735	1
24 / 6	BF-O-6/144-A	240736	1
33 / 4	BF-O-4/132-A	240742	1
33 / 5	BF-O-5/165-A	240743	1
33 / 6	BF-O-6/198-A	240744	1



wa\_vt01813

## BF-O Surface-mounted Flat Distribution Boards, IP30, Version A

### Technical Data BF-O-./...-A

- Flat installation distribution board for surface-mounting
- 2- to 6-rows with 24 MU per row
- 4- to 6-rows with 33 MU per row

#### Enclosure:

- Closed Construction including rear wall
- Rear wall useable as mounting area
- 2 cable entry flanges at flat distribution board with 24MU width at the top
- 3 cable entry flanges at flat distribution board with 33MU width at the top
- Pre stamped cable entry openings at the bottom
- Terminals pre mounted at the enclosure (no losing of Module Units)

#### Wall Box:

- Wall Box with door frame
- Rear wall useable as mounting area
- Easy removeable knock-outs
- 127 mm depth
- Terminals pre mounted at the enclosure (no losing of Module Units)
- 4 lateral mounting straps

#### Door:

- Steel sheet door with rotary door handle white in the scope of delivery
- Steel sheet door with additional depth (required to install RMQ-Components at the door) is available as accessory (**BFZ-OTR-./...**)
- Steel sheet door with window is available as accessory (**BFZ-OTT-./...**)

#### DIN-Rail Frame:

- Removable DIN-rail frame
- For 45 mm Switchgear
- 150 mm distance between DIN-Rails
- Eaton MCCB integrate able by mounting set (**BFZ-NZM1-SET/(33)**)
- Universal mounting set for surface mounted enclosure (**BFZ-O-ITMPL..**)

#### Front plate:

- Contacting of the metal front plate by special catch on enclosure

### Electrical

Design according to	EN 61439-1,-3 EN 62208
Protection class	IP30 according to EN 60529
Protection class	I
Rated voltage	AC 240/415V; 50/60 Hz
Rated isolation voltage	AC 415V
Rated current range	max. 125/160 A (according to Incoming switch)
Max. power loss for all devices integrated in the flat distribution board at an ambient temperature of 35°C:	
BF-O-2/48	74 W
BF-O-3/72	88 W
BF-O-4/96	102 W
BF-O-4/132	128 W
BF-O-5/120	117 W
BF-O-5/165	139 W
BF-O-6/144	131 W
BF-O-6/198	155 W

### Mechanical

Enclosure	Steel sheet Polyester powder coated
Door	Steel sheet Polyester powder coated
Front plates	Steel sheet Polyester powder coated
DIN-rail frame	Steel sheet galvanised
Terminal support	PPO
Colour	white RAL 9016
Distance between DIN-Rails	150 mm
N/PE terminals max. 63 A	
	N
BF-O-2/48	2x25mm <sup>2</sup> +9x16mm <sup>2</sup>
BF-O-3/72	2x25mm <sup>2</sup> +9x16mm <sup>2</sup>
BF-O-4/96	2x25mm <sup>2</sup> +9x16mm <sup>2</sup>
BF-O-4/132	2x25mm <sup>2</sup> +9x16mm <sup>2</sup>
BF-O-5/120	2x25mm <sup>2</sup> +9x16mm <sup>2</sup>
BF-O-5/165	2x25mm <sup>2</sup> +9x16mm <sup>2</sup>
BF-O-6/144	2x25mm <sup>2</sup> +9x16mm <sup>2</sup>
BF-O-6/198	2x25mm <sup>2</sup> +9x16mm <sup>2</sup>
	PE
	2x25mm <sup>2</sup> +27x16mm <sup>2</sup>
	2x25mm <sup>2</sup> +27x16mm <sup>2</sup>
	2x25mm <sup>2</sup> +43x16mm <sup>2</sup>
	2x25mm <sup>2</sup> +58x16mm <sup>2</sup>
	2x25mm <sup>2</sup> +58x16mm <sup>2</sup>
	2x25mm <sup>2</sup> +74x16mm <sup>2</sup>
	2x25mm <sup>2</sup> +58x16mm <sup>2</sup>
	2x25mm <sup>2</sup> +74x16mm <sup>2</sup>

### Cable entries above

	24MU per row		33MU per row	
2x Flange:	14x ø11mm 8x ø15mm 2x ø28mm		3x Flange:	14x ø11mm 8x ø15mm 2x ø28mm
Relief stamp:	2x M32/M40		Relief stamp:	1x M32/M40

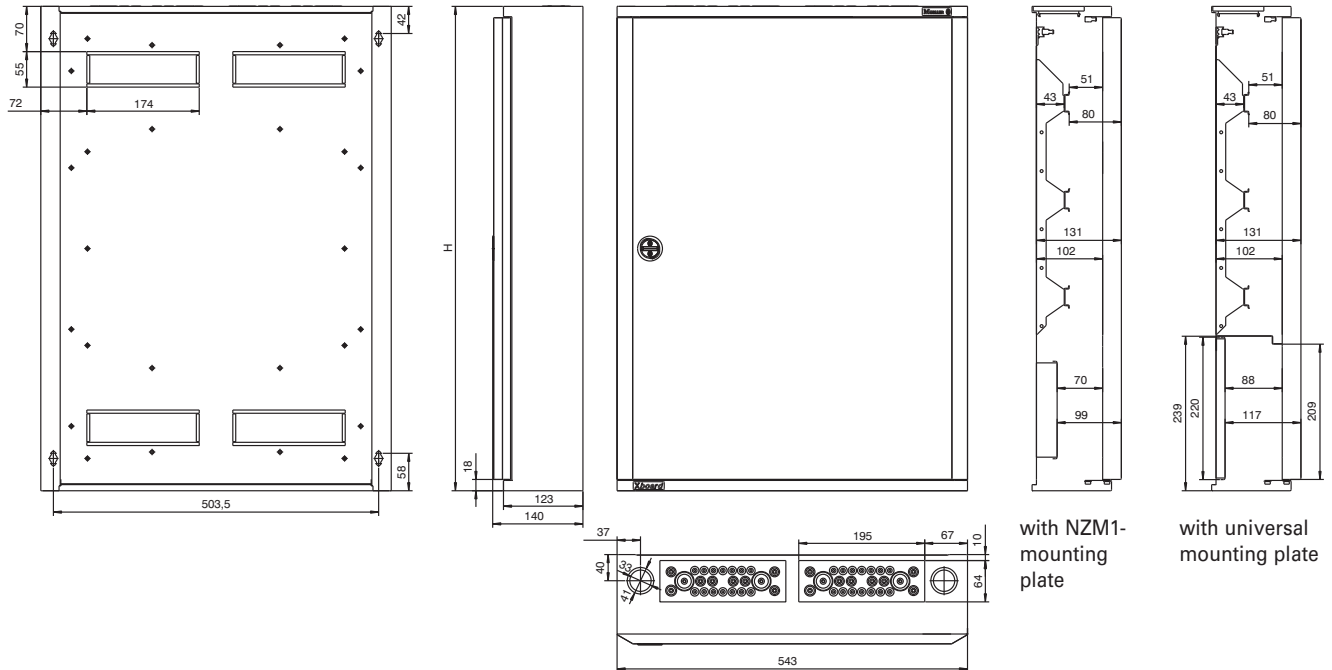
### Cable entries below

	24MU per row		33MU per row	
Relief stamp:	2x M32/M40 6x M25 8x M20		Relief stamp:	1x M32/M40 12x M25 8x M20

## BF-O Surface-mounted Flat Distribution Boards, IP30, Version A

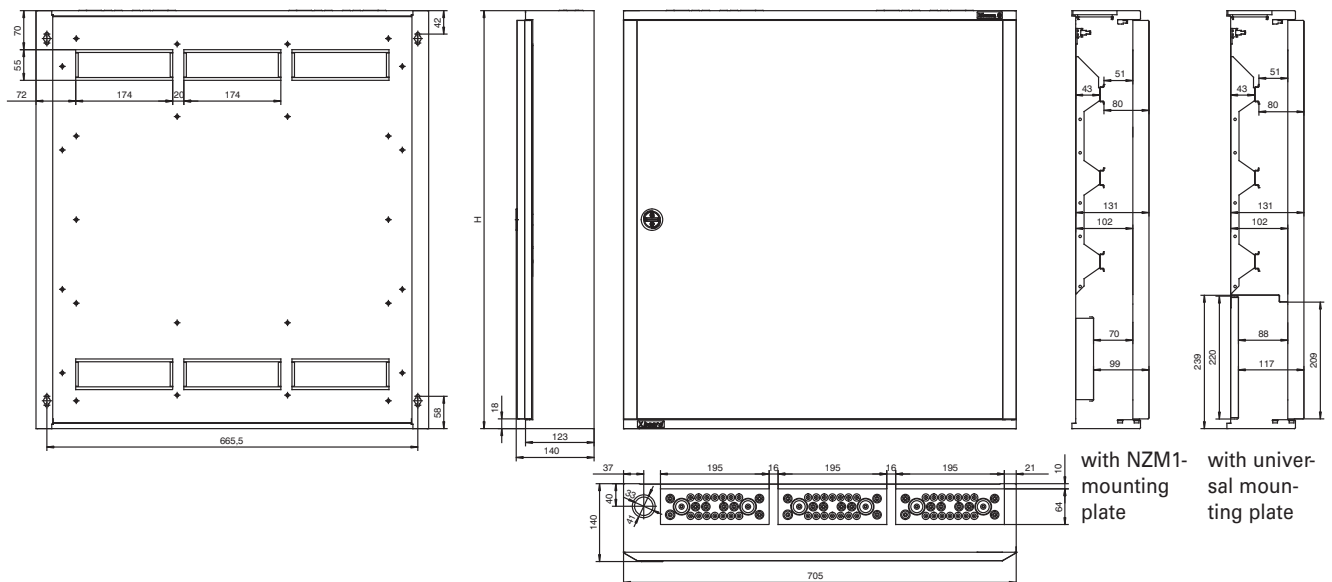
### Dimensions (mm)

#### Surface-mounting Flat Distribution Boards with 24MU per row



Type	H
BF-O-2/48-A	450
BF-O-3/72-A	600
BF-O-4/96-A	750
BF-O-5/120-A	900
BF-O-6/144-A	1050

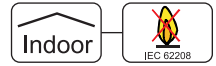
#### Surface-mounting Flat Distribution Boards with 33MU per row



Type	H
BF-O-4/132-A	750
BF-O-5/165-A	900
BF-O-6/198-A	1050

## BF-O Surface-mounted Flat Distribution Boards, IP30, Version E

### Surface-mounted Flat Distribution Boards BF-O-./...-E, complete



Scope of Delivery:

- Enclosure
- Door with Rotary Door handle Profi-Line
- DIN-rail frame
- Cable Entry Flange (above)
- Front plates
- Neutral and protective earth terminals

MU per row / Number of rows	Type designation	Article No.	Pack (pcs.)
<b>White</b>			
24 / 2	BF-O-2/48-E	283040	1
24 / 3	BF-O-3/72-E	283041	1
24 / 4	BF-O-4/96-E	283042	1
24 / 5	BF-O-5/120-E	283043	1
24 / 6	BF-O-6/144-E	285220	1



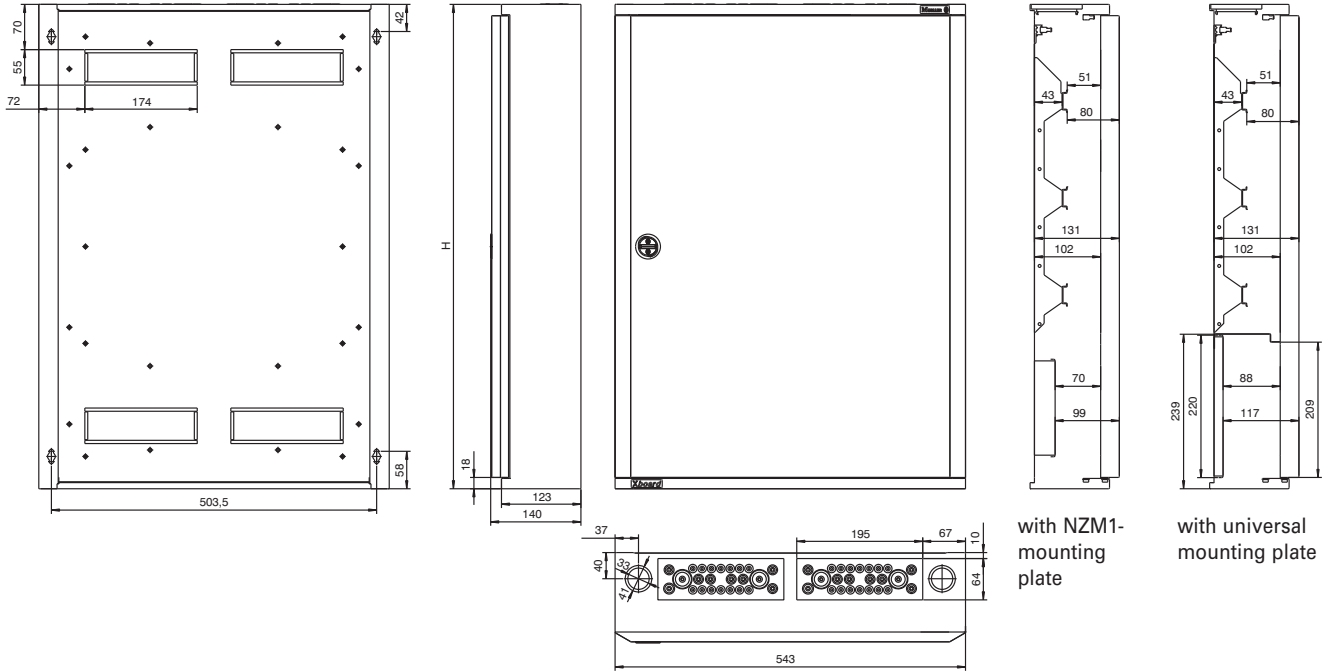
wa\_v01713



## BF-O Surface-mounted Flat Distribution Boards, IP30, Version A

### Dimensions (mm)

#### Surface-mounting Flat Distribution Boards with 24MU per row



Type	H
BF-O-2/48-E	450
BF-O-3/72-E	600
BF-O-4/96-E	750
BF-O-5/120-E	900
BF-O-6/144-E	1050



## BF-O Surface-mounted Flat Distribution Boards, IP30, Version C

Scope of Delivery:



- Enclosure (white oder grey)
- Door with Rotary Door handle (white and grey with or without window)
- DIN-rail frame
- Cable Entry Flange (above)
- Front plates (white oder grey)
- Neutral and protective earth terminals



### Surface-mounted Flat Distribution Boards BF-O-./...(-G)-C without window, complete

	MU per row / Number of rows	Type designation	Article No.	Pack (pcs.)
<b>White</b>				
 wa_vt01813	24 / 2	BF-O-2/48-C	113685	1
	24 / 3	BF-O-3/72-C	283031	1
	24 / 4	BF-O-4/96-C	283032	1
	24 / 5	BF-O-5/120-C	283033	1
	24 / 6	BF-O-6/144-C	283034	1
	33 / 4	BF-O-4/132-C	103091	1
	33 / 5	BF-O-5/165-C	103092	1
33 / 6	BF-O-6/198-C	103093	1	
<b>Grey</b>				
 wa_vt01913	24 / 2	BF-O-2/48-G-C	113686	1
	24 / 3	BF-O-3/72-G-C	283044	1
	24 / 4	BF-O-4/96-G-C	283045	1
	24 / 5	BF-O-5/120-G-C	283046	1
	24 / 6	BF-O-6/144-G-C	283047	1
	33 / 4	BF-O-4/132-G-C	103094	1
	33 / 5	BF-O-5/165-G-C	103095	1
33 / 6	BF-O-6/198-G-C	103096	1	

### Surface-mounted Flat Distribution Boards BF-OT-./...(-G)-C with window, complete

	MU per row / Number of rows	Type designation	Article No.	Pack (pcs.)
<b>White</b>				
 wa_vt06213	24 / 2	BF-OT-2/48-C	113687	1
	24 / 3	BF-OT-3/72-C	103103	1
	24 / 4	BF-OT-4/96-C	103104	1
	24 / 5	BF-OT-5/120-C	103105	1
	24 / 6	BF-OT-6/144-C	103106	1
	33 / 4	BF-OT-4/132-C	103107	1
	33 / 5	BF-OT-5/165-C	103108	1
33 / 6	BF-OT-6/198-C	103109	1	
<b>Grey</b>				
 wa_vt07613	24 / 2	BF-OT-2/48-G-C	113688	1
	24 / 3	BF-OT-3/72-G-C	103110	1
	24 / 4	BF-OT-4/96-G-C	103111	1
	24 / 5	BF-OT-5/120-G-C	103112	1
	24 / 6	BF-OT-6/144-G-C	103113	1
	33 / 4	BF-OT-4/132-G-C	103114	1
	33 / 5	BF-OT-5/165-G-C	103115	1
33 / 6	BF-OT-6/198-G-C	103116	1	

## BF-O Surface-mounted Flat Distribution Boards, IP30, Version C

### Technical Data BF-O-./.-C

- Flat installation distribution board for surface-mounting
- 2- to 6-rows with 24 MU per row
- 4- to 6-rows with 33 MU per row

#### Enclosure:

- Closed Construction including rear wall
- Rear wall useable as mounting area
- 2 cable entry flanges at flat distribution board with 24MU width at the top
- Pre stamped cable entry openings at the bottom
- Terminals pre mounted at the enclosure (no losing of Module Units)

#### Wall Box:

- Wall Box with door frame
- Rear wall useable as mounting area
- Easy removeable knock-outs
- 127 mm depth
- Terminals pre mounted at the enclosure (no losing of Module Units)
- 4 lateral mounting straps

#### Door:

- Steel sheet door with rotary door handle white and gray in the scope of delivery
- Steel sheet door with window white and grey in the scope of delivery
- Steel sheet door with additional depth (required to install RMQ-Components at the door) is available as accessory (**BFZ-OTR-J...**)

#### DIN-Rail Frame:

- Removable DIN-rail frame
- For 45 mm Switchgear
- 150 mm distance between DIN-Rails
- Eaton MCCB integrate able by mounting set (**BFZ-NZM1-SET/(33)**)
- Universal mounting set for surface mounted enclosure (**BFZ-O-ITMPL..**)

#### Front plate:

- Contacting of the metal front plate by special catch on enclosure

### Electrical

Design according to	EN 61439-1,-3 EN 62208
Protection class	IP30 according to EN 60529
Protection class	I
Rated voltage	AC 240/415V; 50/60 Hz
Rated isolation voltage	AC 415V
Rated current range	max. 125/160 A (according to Incoming switch)
Max. power loss for all devices integrated in the flat distribution board at an ambient temperature of 35°C:	
BF-O(T)-2/48	74 W
BF-O(T)-3/72	88 W
BF-O(T)-4/96	102 W
BF-O(T)-4/132	128 W
BF-O(T)-5/120	117 W
BF-O(T)-5/165	139 W
BF-O(T)-6/144	131 W
BF-O(T)-6/198	155 W

### Mechanical

Enclosure	Steel sheet Polyester powder coated
Door	Steel sheet Polyester powder coated
Front plates	Steel sheet Polyester powder coated
DIN-rail frame	Steel sheet galvanised
Terminal support	PPO
Colour	white RAL 9016 grey RAL 7035
Distance between DIN-Rails	150 mm
N/PE terminals max. 63 A	
	N PE
BF-O-2/48	2x25mm <sup>2</sup> +43x16mm <sup>2</sup> 2x25mm <sup>2</sup> +43x16mm <sup>2</sup>
BF-O-3/72	2x25mm <sup>2</sup> +43x16mm <sup>2</sup> 2x25mm <sup>2</sup> +43x16mm <sup>2</sup>
BF-O-4/96	2x25mm <sup>2</sup> +43x16mm <sup>2</sup> 2x25mm <sup>2</sup> +43x16mm <sup>2</sup>
BF-O-4/132	2x25mm <sup>2</sup> +58x16mm <sup>2</sup> 2x25mm <sup>2</sup> +58x16mm <sup>2</sup>
BF-O-5/120	2x25mm <sup>2</sup> +43x16mm <sup>2</sup> 2x25mm <sup>2</sup> +43x16mm <sup>2</sup>
BF-O-5/165	2x25mm <sup>2</sup> +58x16mm <sup>2</sup> 2x25mm <sup>2</sup> +58x16mm <sup>2</sup>
BF-O-6/144	2x25mm <sup>2</sup> +43x16mm <sup>2</sup> 2x25mm <sup>2</sup> +43x16mm <sup>2</sup>
BF-O-6/198	2x25mm <sup>2</sup> +58x16mm <sup>2</sup> 2x25mm <sup>2</sup> +58x16mm <sup>2</sup>

### Cable entries above

	24MU per row		33MU per row
2x Flange:	14x ø11mm 8x ø15mm 2x ø28mm	3x Flange:	14x ø11mm 8x ø15mm 2x ø28mm
Relief stamp:	2x M32/M40	Relief stamp:	1x M32/M40

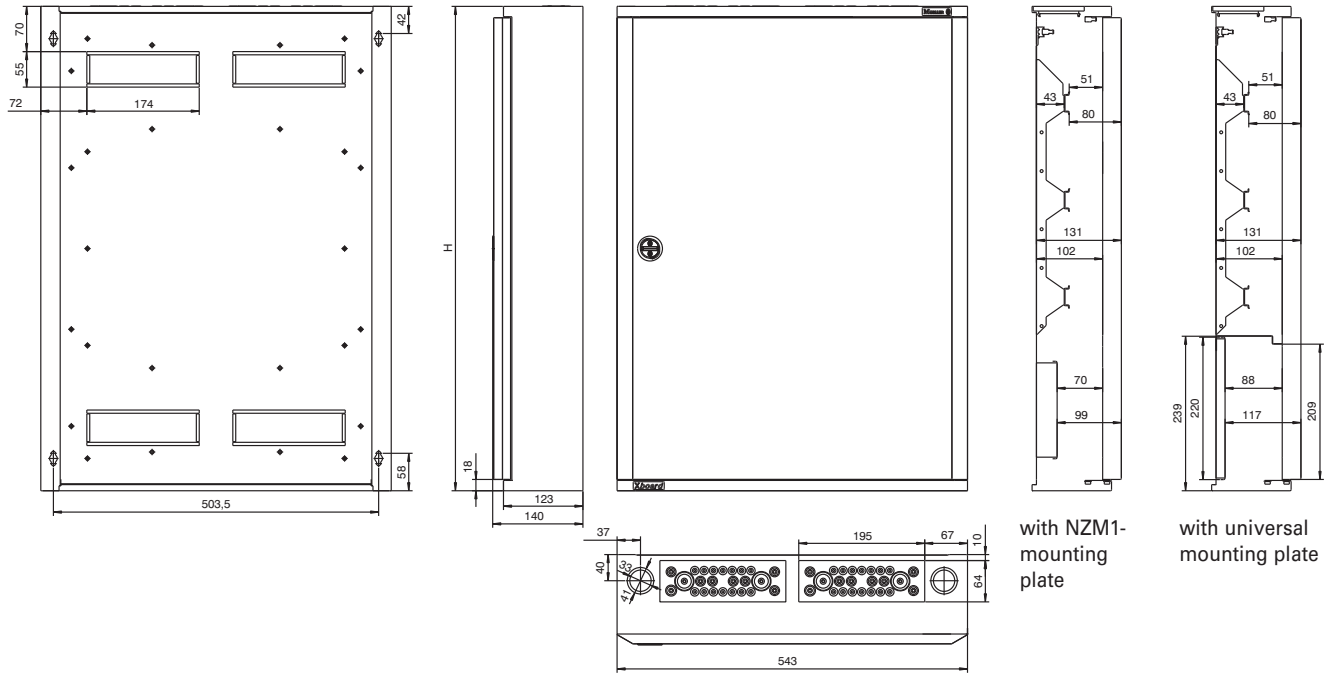
### Cable entries below

	24MU per row		33MU per row
Relief stamp:	2x M32/M40 6x M25 8x M20	Relief stamp:	1x M32/M40 12x M25 8x M20

## BF-O Surface-mounted Flat Distribution Boards, IP30, Version C

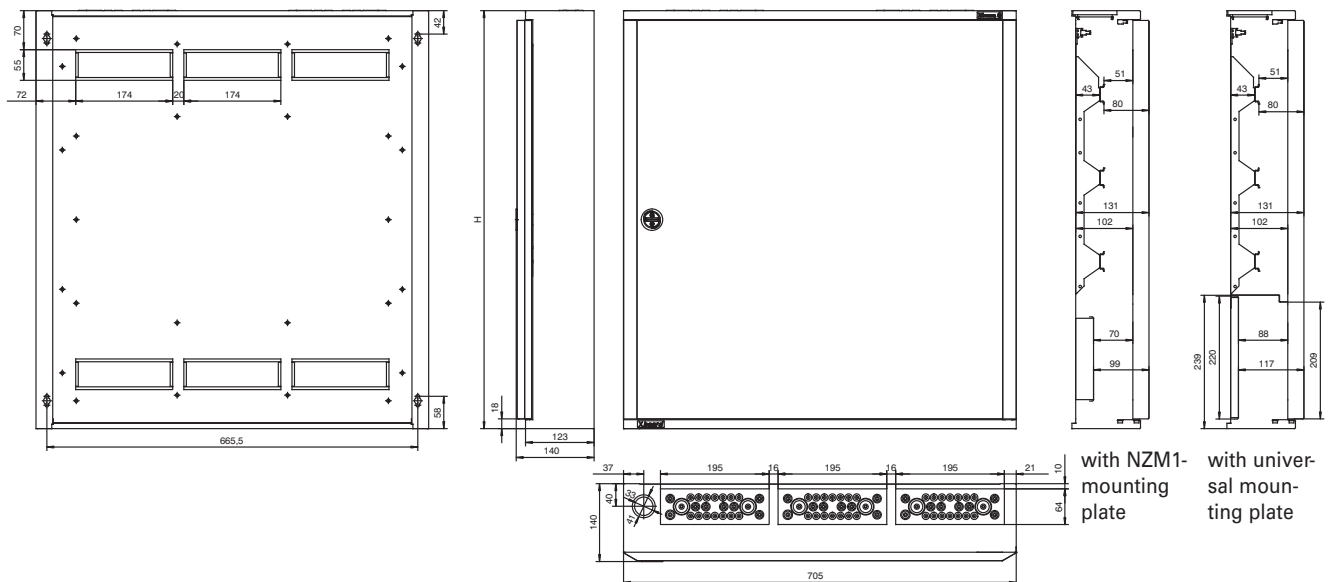
### Dimensions (mm)

#### Surface-mounting Flat Distribution Boards with 24MU per row



Type	H
BF-O-2/48(-G)-C	450
BF-O-3/72(-G)-C	600
BF-O-4/96(-G)-C	750
BF-O-5/120(-G)-C	900
BF-O-6/144(-G)-C	1050

#### Surface-mounting Flat Distribution Boards with 33MU per row



Type	H
BF-O-4/132(-G)-C	750
BF-O-5/165(-G)-C	900
BF-O-6/198(-G)-C	1050

## BF-O Surface-mounted Flat Distribution Boards, IP30, Version P

Scope of Delivery:

- Enclosure
- Door with Rotary Door handle (with or without window)
- DIN-rail frame
- Cable Entry Flange (above)
- Front plates
- Neutral and protective earth terminals



### Surface-mounted Flat Distribution Boards BF-O-./...(-G)-P without window, complete

MU per row / Number of rows	Type designation	Article No.	Pack (pcs.)
<b>White</b>			
24 / 3	BF-O-3/72-P	285345	1
24 / 4	BF-O-4/96-P	285346	1
24 / 5	BF-O-5/120-P	285347	1
24 / 6	BF-O-6/144-P	285348	1



### Surface-mounted Flat Distribution Boards BF-OT-./...(-G)-P with window, complete

MU per row / Number of rows	Type designation	Article No.	Pack (pcs.)
<b>White</b>			
24 / 3	BF-OT-3/72-P	289099	1
24 / 4	BF-OT-4/96-P	289130	1
24 / 5	BF-OT-5/120-P	289131	1
24 / 6	BF-OT-6/144-P	289132	1



## BF-O Surface-mounted Flat Distribution Boards, IP30, Version P

### Technical Data BF-O-./..-P

- Flat installation distribution board for surface-mounting
- 3- to 6-rows with 24 MU per row

#### Enclosure:

- Closed Construction including rear wall
- Rear wall useable as mounting area
- 2 cable entry flanges at flat distribution board with 24MU width at the top
- Pre stamped cable entry openings at the bottom
- Terminals pre mounted at the enclosure (no losing of Module Units)

#### Wall Box:

- Wall Box with door frame
- Rear wall useable as mounting area
- Easy removeable knock-outs
- 127 mm depth
- Terminals pre mounted at the enclosure (no losing of Module Units)
- 4 lateral mounting straps

#### Door:

- Steel sheet door with rotary door handle white or steel sheet door with window and rotary door handle white in the scope of delivery
- Steel sheet door with additional depth (required to install RMQ-Components at the door) is available as accessory (**BFZ-OTR-./...**)

#### DIN-Rail Frame:

- Removable DIN-rail frame
- For 45 mm Switchgear
- 150 mm distance between DIN-Rails
- Eaton MCCB integrate able by mounting set (**BFZ-NZM1-SET/(33)**)
- Universal mounting set for surface mounted enclosure (**BFZ-O-ITMPL..**)

#### Front plate:

- Contacting of the metal front plate by special catch on enclosure

#### Electrical

Design according to	EN 61439-1,-3 EN 62208
Protection class	IP30 according to EN 60529
Protection class	I
Rated voltage	AC 240/415V; 50/60 Hz
Rated isolation voltage	AC 415V
Rated current range	max. 125/160 A (according to Incoming switch)
Max. power loss for all devices integrated in the flat distribution board at an ambient temperature of 35°C:	
BF-O-3/72	88 W
BF-O-4/96	102 W
BF-O-5/120	117 W

#### Mechanical

Enclosure	Steel sheet Polyester powder coated
Door	Steel sheet Polyester powder coated
Front plates	Steel sheet Polyester powder coated
DIN-rail frame	Steel sheet galvanised
Terminal support	PPO
Colour	white RAL 9016
Distance between DIN-Rails	150 mm
N/PE terminals max. 63 A	
	N PE
BF-O-3/72	2x25mm <sup>2</sup> +43x16mm <sup>2</sup> 2x25mm <sup>2</sup> +43x16mm <sup>2</sup>
BF-O-4/96	2x25mm <sup>2</sup> +58x16mm <sup>2</sup> 2x25mm <sup>2</sup> +58x16mm <sup>2</sup>
BF-O-5/120	2x25mm <sup>2</sup> +58x16mm <sup>2</sup> 2x25mm <sup>2</sup> +58x16mm <sup>2</sup>
BF-O-6/144	2x25mm <sup>2</sup> +58x16mm <sup>2</sup> 2x25mm <sup>2</sup> +58x16mm <sup>2</sup>

#### Cable entries above

##### 24MU per row

2x Flange:	14x ø11mm 8x ø15mm 2x ø28mm
Relief stamp:	2x M32/M40

#### Cable entries below

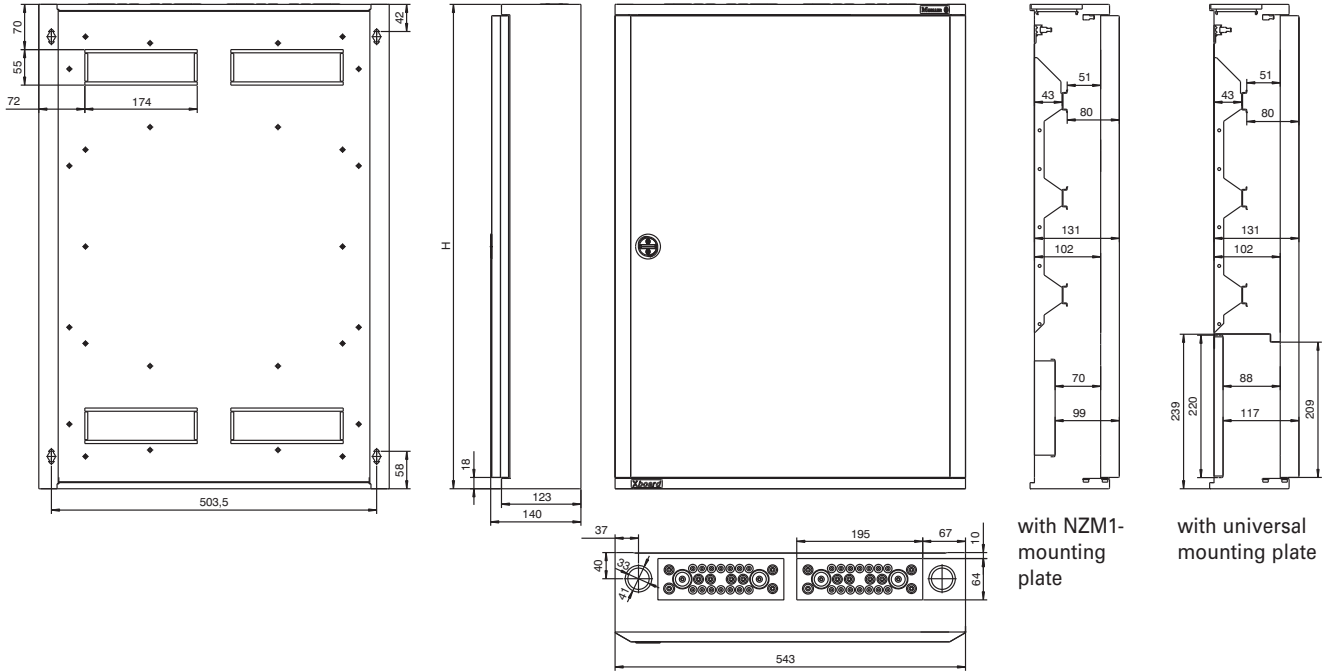
##### 24MU per row

Relief stamp:	2x M32/M40 6x M25 8x M20
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## BF-O Surface-mounted Flat Distribution Boards, IP30, Version P

### Dimensions (mm)

#### Surface-mounting Flat Distribution Boards with 24MU per row



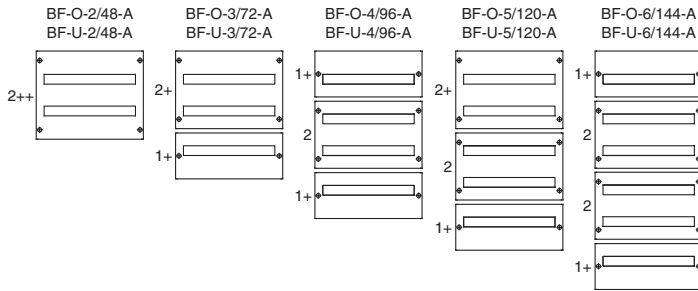
Type	H
BF-O(T)-3/72-P	600
BF-O(T)-4/96-P	750
BF-O(T)-5/120-P	900
BF-O(T)-6/144-P	1050

## BF-O Surface-mounted Flat Distribution Boards, IP30

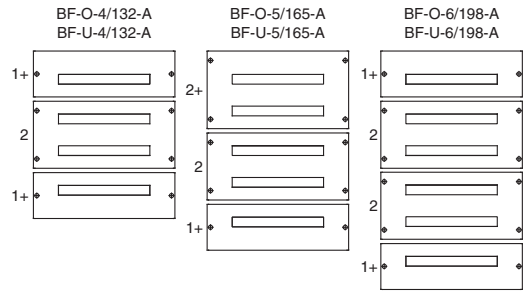
### Allocation of front plate

#### Allocation of front plate (Delivery status), Version A

24MU per row

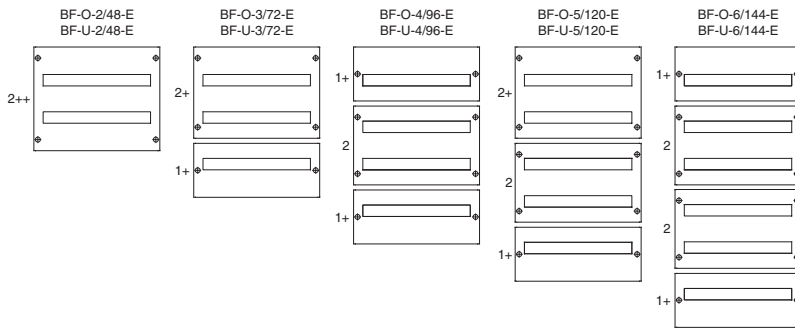


33MU per row



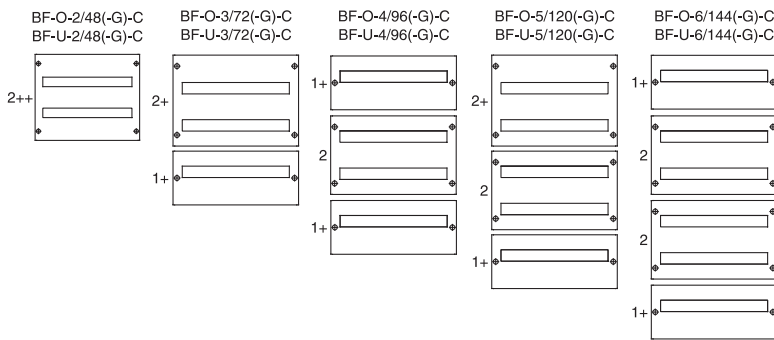
#### Allocation of front plate (Delivery status), Version E

24MU per row

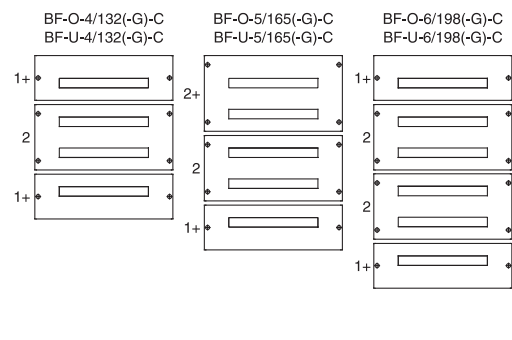


#### Allocation of front plate (Delivery status), Version C

24MU per row

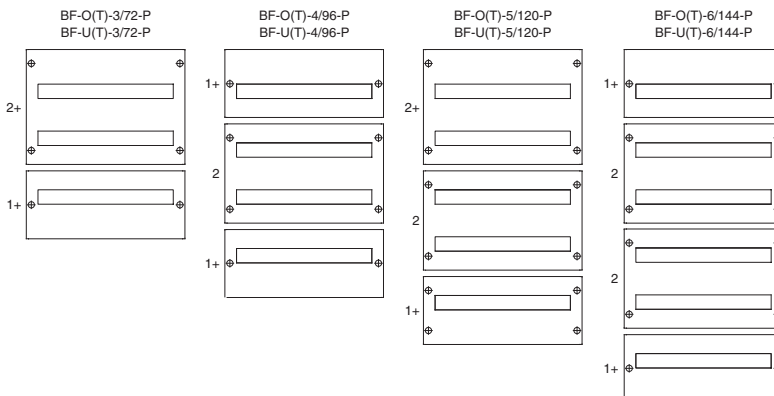


33MU per row



#### Allocation of front plate (Delivery status), Version P

24MU per row



## BF-U Flush-mounted Flat Distribution Boards, IP30

wa\_vt01113



- Flush-mounted Flat Distribution Boards
- 2- to 6-rows 24MU/row (Versions A, E, C)
- 4- to 6-rows 33MU/row (Versions A, C, P)
- IP30
- Protection class I

wa\_vt01213



- Sheet steel enclosure polyesterpowder coated (white RAL 9016; Version C also in grey RAL 7035)
- Prepared for Eaton MCCB Incoms
- Sheet steel front plates with contacting to the enclosure
- Removable DIN-rail frame
- Generous wiring space
- 150 mm DIN-rail distance (ideal for switchgear busbar system)

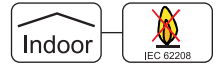
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- Complete enclosure (including N/PE-terminals)
- Depth: 127 mm
- Universal mounting plate

## BF-U Flush-mounted Flat Distribution Boards, IP30, Version A

### Flush-mounted Flat Distribution Boards BF-U-/-A, complete



Scope of Delivery:

- Wall Box with door frame
- Door with Rotary Door handle
- DIN-rail frame
- Front plates
- Neutral and protective earth terminals

MU per row / Number of rows	Type designation	Article No.	Pack (pcs.)
<b>White</b>			
24 / 2	BF-U-2/48-A	240737	1
24 / 3	BF-U-3/72-A	240738	1
24 / 4	BF-U-4/96-A	240739	1
24 / 5	BF-U-5/120-A	240740	1
24 / 6	BF-U-6/144-A	240741	1
33 / 4	BF-U-4/132-A	240745	1
33 / 5	BF-U-5/165-A	240746	1
33 / 6	BF-U-6/198-A	240747	1



## BF-U Flush-mounted Flat Distribution Boards, IP30, Version A

### Technical Data BF-U-./...-A

- Flat installation distribution board for flush-mounting
- 2- to 6-rows with 24 MU per row
- 4- to 6-rows with 33 MU per row

#### Enclosure:

- Closed Construction including rear wall
- Rear wall useable as mounting area
- 2 cable entry flanges at flat distribution board with 24MU width at the top
- 3 cable entry flanges at flat distribution board with 33MU width at the top
- Pre stamped cable entry openings at the bottom
- Terminals pre mounted at the enclosure (no losing of Module Units)

#### Wall Box:

- Wall Box with door frame
- Rear wall useable as mounting area
- Easy removeable knock-outs
- 127 mm depth
- Terminals pre mounted at the enclosure (no losing of Module Units)
- 4 lateral mounting straps

#### Door:

- Steel sheet door with rotary door handle white in the scope of delivery
- Steel sheet door with additional depth (required to install RMQ-Components at the door) is available as accessory (**BFZ-OTR-./...**)
- Steel sheet door with window is available as accessory (**BFZ-OTT-./...**)

#### DIN-Rail Frame:

- Removable DIN-rail frame
- For 45 mm Switchgear
- 150 mm distance between DIN-Rails
- Eaton MCCB integrate able by mounting set (**BFZ-NZM1-SET/(33)**)
- Universal mounting set for flush mounted enclosure (**BFZ-U-MPL...**)

#### Front plate:

- Contacting of the metal front plate by special catch on enclosure

### Electrical

Design according to	EN 61439-1,-3 EN 62208
Protection class	IP30 according to EN 60529
Protection class	I
Rated voltage	AC 240/415V; 50/60 Hz
Rated isolation voltage	AC 415V
Rated current range	max. 125/160 A (according to Incoming switch)
Max. power loss for all devices integrated in the flat distribution board at an ambient temperature of 35°C:	
BF-U-2/48	67 W
BF-U-3/72	81 W
BF-U-4/96	94 W
BF-U-4/132	118 W
BF-U-5/120	108 W
BF-U-5/165	134 W
BF-U-6/144	122 W
BF-U-6/198	142 W

### Mechanical

Enclosure	Steel sheet Polyester powder coated
Door	Steel sheet Polyester powder coated
Front plates	Steel sheet Polyester powder coated
DIN-rail frame	Steel sheet galvanised
Terminal support	PPO
Colour	white RAL 9016
Distance between DIN-Rails	150 mm
N/PE terminals max. 63 A	
	N PE
BF-U-2/48	2x25mm <sup>2</sup> +9x16mm <sup>2</sup> 2x25mm <sup>2</sup> +27x16mm <sup>2</sup>
BF-U-3/72	2x25mm <sup>2</sup> +9x16mm <sup>2</sup> 2x25mm <sup>2</sup> +27x16mm <sup>2</sup>
BF-U-4/96	2x25mm <sup>2</sup> +9x16mm <sup>2</sup> 2x25mm <sup>2</sup> +43x16mm <sup>2</sup>
BF-U-4/132	2x25mm <sup>2</sup> +9x16mm <sup>2</sup> 2x25mm <sup>2</sup> +58x16mm <sup>2</sup>
BF-U-5/120	2x25mm <sup>2</sup> +9x16mm <sup>2</sup> 2x25mm <sup>2</sup> +58x16mm <sup>2</sup>
BF-U-5/165	2x25mm <sup>2</sup> +9x16mm <sup>2</sup> 2x25mm <sup>2</sup> +74x16mm <sup>2</sup>
BF-U-6/144	2x25mm <sup>2</sup> +9x16mm <sup>2</sup> 2x25mm <sup>2</sup> +58x16mm <sup>2</sup>
BF-U-6/198	2x25mm <sup>2</sup> +9x16mm <sup>2</sup> 2x25mm <sup>2</sup> +74x16mm <sup>2</sup>

### Cable entries above

	24MU per row	33MU per row
Relief stamp:	4x (88x46mm)	5x (88x46mm)

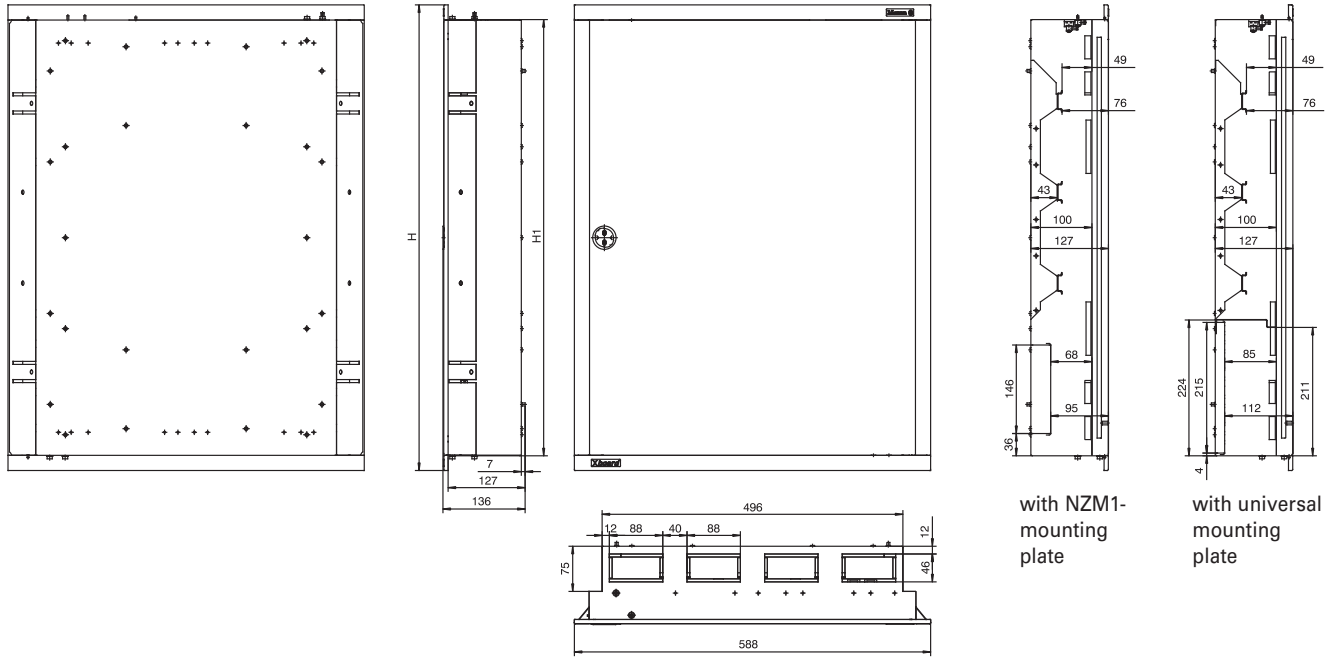
### Cable entries below

	24MU per row	33MU per row
Relief stamp:	4x (88x46mm)	5x (88x46mm)

## BF-U Flush-mounted Flat Distribution Boards, IP30, Version A

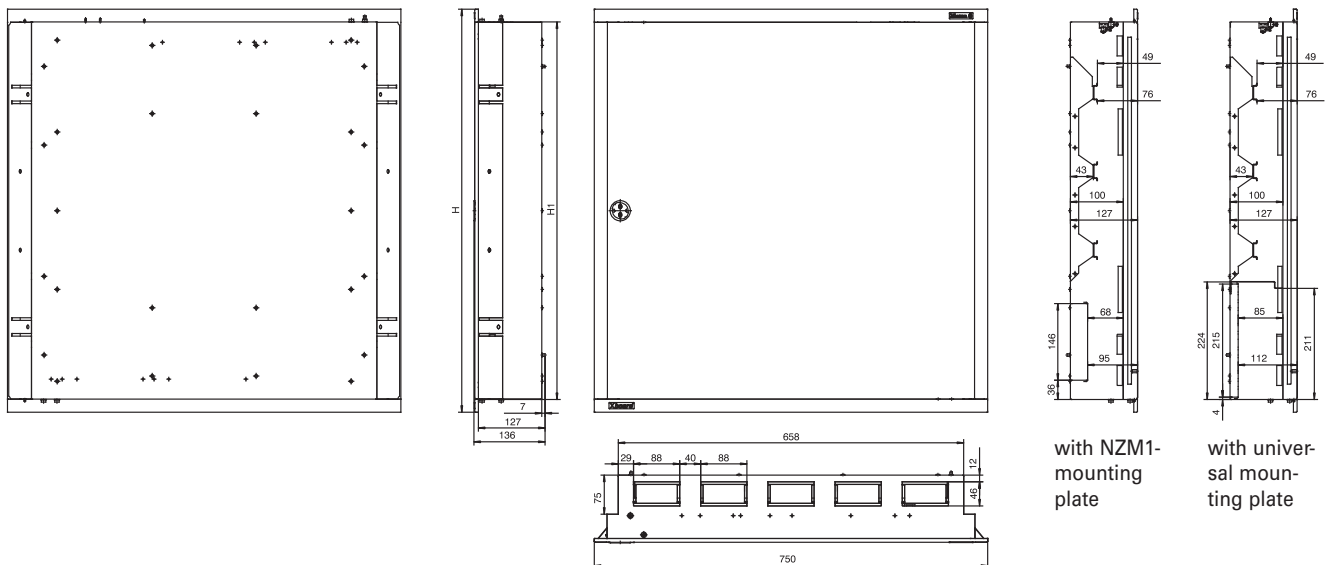
### Dimensions (mm)

#### Flush-mounting Flat Distribution Boards with 24MU per row



Type	H	H1
BF-U-2/48-A	470	420
BF-U-3/72-A	620	570
BF-U-4/96-A	770	720
BF-U-5/120-A	920	870
BF-U-6/144-A	1070	1020

#### Flush-mounting Flat Distribution Boards with 33MU per row



Type	H	H1
BF-U-4/132-A	770	720
BF-U-5/165-A	920	870
BF-U-6/198-A	1070	1020

## BF-U Flush-mounted Flat Distribution Boards, IP30, Version E

### Flush-mounted Flat Distribution Boards BF-U-/-E, complete



Scope of Delivery:

- Wall Box with door frame
- Door with Rotary Door handle Profi-Line
- DIN-rail frame
- Front plates
- Neutral and protective earth terminals

MU per row / Number of rows	Type designation	Article No.	Pack (pcs.)
<b>White</b>			
24 / 2	BF-U-2/48-E	283052	1
24 / 3	BF-U-3/72-E	283053	1
24 / 4	BF-U-4/96-E	283054	1
24 / 5	BF-U-5/120-E	283055	1
24 / 6	BF-U-6/144-E	285221	1

wa\_vt01413



## BF-U Flush-mounted Flat Distribution Boards, IP30, Version E

### Technical Data BF-U-./...-E

- Flat installation distribution board for flush-mounting
- 2- to 6-rows with 24 MU per row

#### Enclosure:

- Closed Construction including rear wall
- Rear wall useable as mounting area
- 2 cable entry flanges at flat distribution board with 24MU width at the top
- Pre stamped cable entry openings at the bottom
- Terminals pre mounted at the enclosure (no losing of Module Units)

#### Wall Box:

- Wall Box with door frame
- Rear wall useable as mounting area
- Easy removeable knock-outs
- 127 mm depth
- Terminals pre mounted at the enclosure (no losing of Module Units)
- 4 lateral mounting straps

#### Door:

- Steel sheet door with rotary door handle white in the scope of delivery
- Steel sheet door with additional depth (required to install RMQ-Components at the door) is available as accessory (**BFZ-OTR-./...**)
- Steel sheet door with window is available as accessory (**BFZ-OTT-OR./...**)

#### DIN-Rail Frame:

- Removable DIN-rail frame
- For 45 mm Switchgear
- 150 mm distance between DIN-Rails
- Eaton MCCB integrate able by mounting set (**BFZ-NZM1-SET/(33)**)
- Universal mounting set for flush mounted enclosure (**BFZ-U-MPL...**)

#### Front plate:

- Contacting of the metal front plate by special catch on enclosure

Electrical	
Design according to	EN 61439-1,-3 EN 62208
Protection class	IP30 according to EN 60529
Protection class	I
Rated voltage	AC 240/415V; 50/60 Hz
Rated isolation voltage	AC 415V
Rated current range	max. 125/160 A (according to Incoming switch)
Max. power loss for all devices integrated in the flat distribution board at an ambient temperature of 35°C:	
BF-U-2/48	67 W
BF-U-3/72	81 W
BF-U-4/96	94 W
BF-U-5/120	108 W
BF-U-6/144	122 W

Mechanical		
Enclosure	Steel sheet Polyester powder coated	
Door	Steel sheet Polyester powder coated	
Front plates	Steel sheet Polyester powder coated	
DIN-rail frame	Steel sheet galvanised	
Terminal support	PPO	
Colour	white RAL 9016	
Distance between DIN-Rails	150 mm	
N/PE terminals max. 63 A		
	N	PE
BF-U-2/48	2x25mm <sup>2</sup> +13x16mm <sup>2</sup>	2x25mm <sup>2</sup> +13x16mm <sup>2</sup>
BF-U-3/72	2x25mm <sup>2</sup> +13x16mm <sup>2</sup>	2x25mm <sup>2</sup> +13x16mm <sup>2</sup>
BF-U-4/96	2x25mm <sup>2</sup> +27x16mm <sup>2</sup>	2x25mm <sup>2</sup> +27x16mm <sup>2</sup>
BF-U-5/120	2x25mm <sup>2</sup> +27x16mm <sup>2</sup>	2x25mm <sup>2</sup> +27x16mm <sup>2</sup>
BF-U-6/144	2x25mm <sup>2</sup> +27x16mm <sup>2</sup>	2x25mm <sup>2</sup> +27x16mm <sup>2</sup>

### Cable entries above

**24MU per row**  
Relief stamp: 4x (88x46mm)

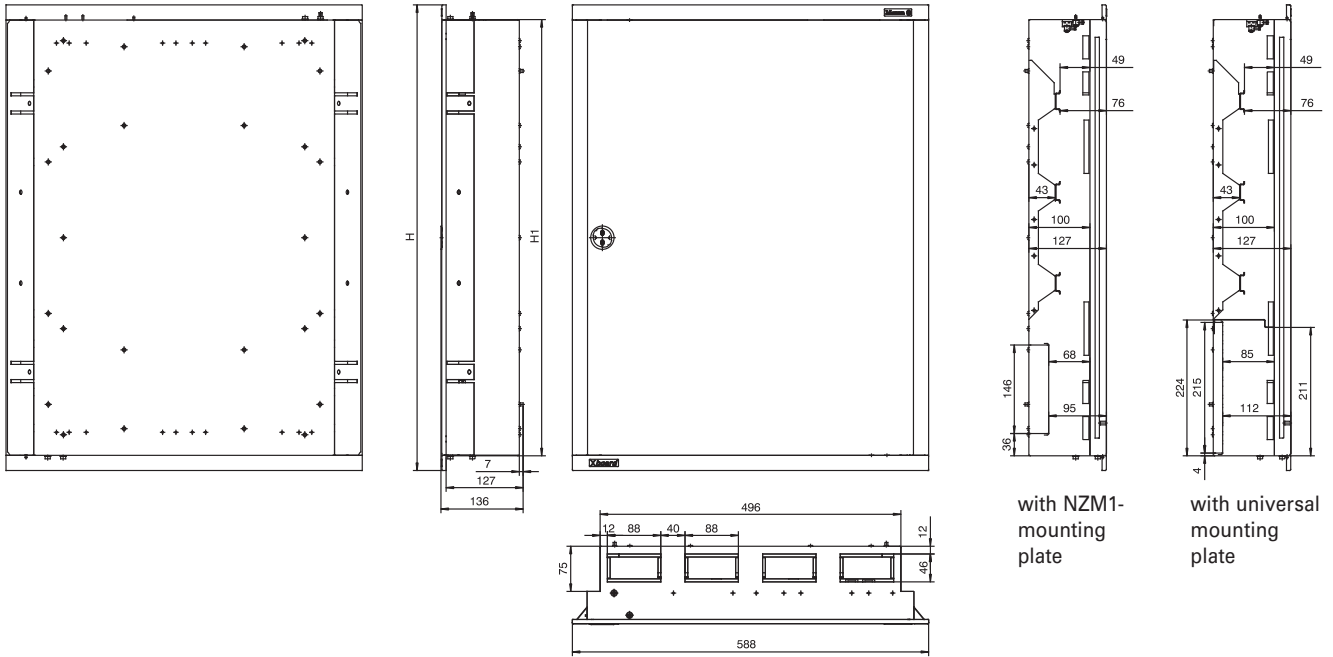
### Cable entries below

**24MU per row**  
Relief stamp: 4x (88x46mm)

## BF-U Flush-mounted Flat Distribution Boards, IP30, Version E

### Dimensions (mm)

#### Flush-mounting Flat Distribution Boards with 24MU per row



Type	H	H1
BF-U-2/48-E	470	420
BF-U-3/72-E	620	570
BF-U-4/96-E	770	720
BF-U-5/120-E	920	870
BF-U-6/144-E	1070	1020



## BF-U Flush-mounted Flat Distribution Boards, IP30, Version C

Scope of Delivery:



- Wall Box with door frame (white oder grey)
- Door with Rotary Door handle (white and grey with or without window)
- DIN-rail frame
- Front plates (white oder grey)
- Neutral and protective earth terminals



### Flush-mounted Flat Distribution Boards BF-U-./...(-G)-C without window, complete

	MU per row / Number of rows	Type designation	Article No.	Pack (pcs.)
<b>White</b>				
	24 / 2	BF-U-2/48-C	113689	1
	24 / 3	BF-U-3/72-C	283048	1
	24 / 4	BF-U-4/96-C	283049	1
	24 / 5	BF-U-5/120-C	283050	1
	24 / 6	BF-U-6/144-C	283051	1
	33 / 4	BF-U-4/132-C	103097	1
	33 / 5	BF-U-5/165-C	103098	1
	33 / 6	BF-U-6/198-C	103099	1
<b>Grey</b>				
	24 / 2	BF-U-2/48-G-C	113690	1
	24 / 3	BF-U-3/72-G-C	283056	1
	24 / 4	BF-U-4/96-G-C	283057	1
	24 / 5	BF-U-5/120-G-C	283058	1
	24 / 6	BF-U-6/144-G-C	283059	1
	33 / 4	BF-U-4/132-G-C	103100	1
	33 / 5	BF-U-5/165-G-C	103101	1
	33 / 6	BF-U-6/198-G-C	103102	1

### Flush-mounted Flat Distribution Boards BF-UT-./...(-G)-C with window, complete

	MU per row / Number of rows	Type designation	Article No.	Pack (pcs.)
<b>White</b>				
	24 / 2	BF-UT-2/48-C	113691	1
	24 / 3	BF-UT-3/72-C	103117	1
	24 / 4	BF-UT-4/96-C	103118	1
	24 / 5	BF-UT-5/120-C	103119	1
	24 / 6	BF-UT-6/144-C	103120	1
	33 / 4	BF-UT-4/132-C	103121	1
	33 / 5	BF-UT-5/165-C	103122	1
	33 / 6	BF-UT-6/198-C	103123	1
<b>Grey</b>				
	24 / 2	BF-UT-2/48-G-C	113692	1
	24 / 3	BF-UT-3/72-G-C	103124	1
	24 / 4	BF-UT-4/96-G-C	103125	1
	24 / 5	BF-UT-5/120-G-C	103126	1
	24 / 6	BF-UT-6/144-G-C	103127	1
	33 / 4	BF-UT-4/132-G-C	103128	1
	33 / 5	BF-UT-5/165-G-C	103129	1
	33 / 6	BF-UT-6/198-G-C	103130	1

## BF-U Flush-mounted Flat Distribution Boards, IP30, Version C

### Technical Data BF-U-./.-C

- Flat installation distribution board for flush-mounting
- 2- to 6-rows with 24 MU per row
- 4- to 6-rows with 33 MU per row

#### Enclosure:

- Closed Construction including rear wall
- Rear wall useable as mounting area
- 2 cable entry flanges at flat distribution board with 24MU width at the top
- Pre stamped cable entry openings at the bottom
- Terminals pre mounted at the enclosure (no losing of Module Units)

#### Wall Box:

- Wall Box with door frame
- Rear wall useable as mounting area
- Easy removeable knock-outs
- 127 mm depth
- Terminals pre mounted at the enclosure (no losing of Module Units)
- 4 lateral mounting straps

#### Door:

- Steel sheet door with rotary door handle white and gray in the scope of delivery
- Steel sheet door with window white and grey in the scope of delivery
- Steel sheet door with additional depth (required to install RMQ-Components at the door) is available as accessory (**BFZ-OTR-J...**)

#### DIN-Rail Frame:

- Removable DIN-rail frame
- For 45 mm Switchgear
- 150 mm distance between DIN-Rails
- Eaton MCCB integrate able by mounting set (**BFZ-NZM1-SET/(33)**)
- Universal mounting set for flush mounted enclosure (**BFZ-U-MPL...**)

#### Front plate:

- Contacting of the metal front plate by special catch on enclosure

### Electrical

Design according to	EN 61439-1,-3 EN 62208
Protection class	IP30 according to EN 60529
Protection class	I
Rated voltage	AC 240/415V; 50/60 Hz
Rated isolation voltage	AC 415V
Rated current range	max. 125/160 A (according to Incoming switch)
Max. power loss for all devices integrated in the flat distribution board at an ambient temperature of 35°C:	
BF-U(T)-2/48	67 W
BF-U(T)-3/72	81 W
BF-U(T)-4/96	94 W
BF-U(T)-4/132	118 W
BF-U(T)-5/120	108 W
BF-U(T)-5/165	134 W
BF-U(T)-6/144	122 W
BF-U(T)-6/198	142 W

### Mechanical

Enclosure	Steel sheet Polyester powder coated
Door	Steel sheet Polyester powder coated
Front plates	Steel sheet Polyester powder coated
DIN-rail frame	Steel sheet galvanised
Terminal support	PPO
Colour	white RAL 9016 grey RAL 7035
Distance between DIN-Rails	150 mm
N/PE terminals max. 63 A	
	N
	PE
BF-U-2/48	2x25mm <sup>2</sup> +43x16mm <sup>2</sup>
BF-U-3/72	2x25mm <sup>2</sup> +43x16mm <sup>2</sup>
BF-U-4/96	2x25mm <sup>2</sup> +43x16mm <sup>2</sup>
BF-U-4/132	2x25mm <sup>2</sup> +58x16mm <sup>2</sup>
BF-U-5/120	2x25mm <sup>2</sup> +43x16mm <sup>2</sup>
BF-U-5/165	2x25mm <sup>2</sup> +58x16mm <sup>2</sup>
BF-U-6/144	2x25mm <sup>2</sup> +43x16mm <sup>2</sup>
BF-U-6/198	2x25mm <sup>2</sup> +58x16mm <sup>2</sup>

### Cable entries above

24MU per row	33MU per row
Relief stamp: 4x (88x46mm)	Relief stamp: 5x (88x46mm)

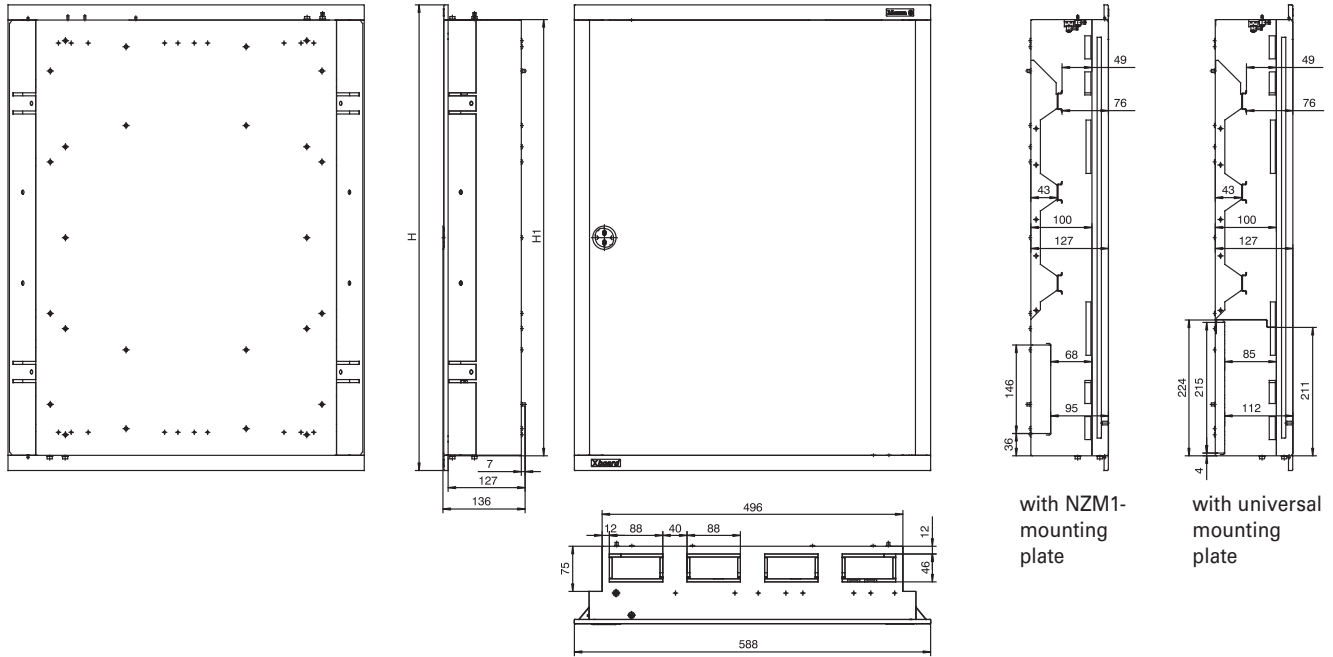
### Cable entries below

24MU per row	33MU per row
Relief stamp: 4x (88x46mm)	Relief stamp: 5x (88x46mm)

## BF-U Flush-mounted Flat Distribution Boards, IP30, Version C

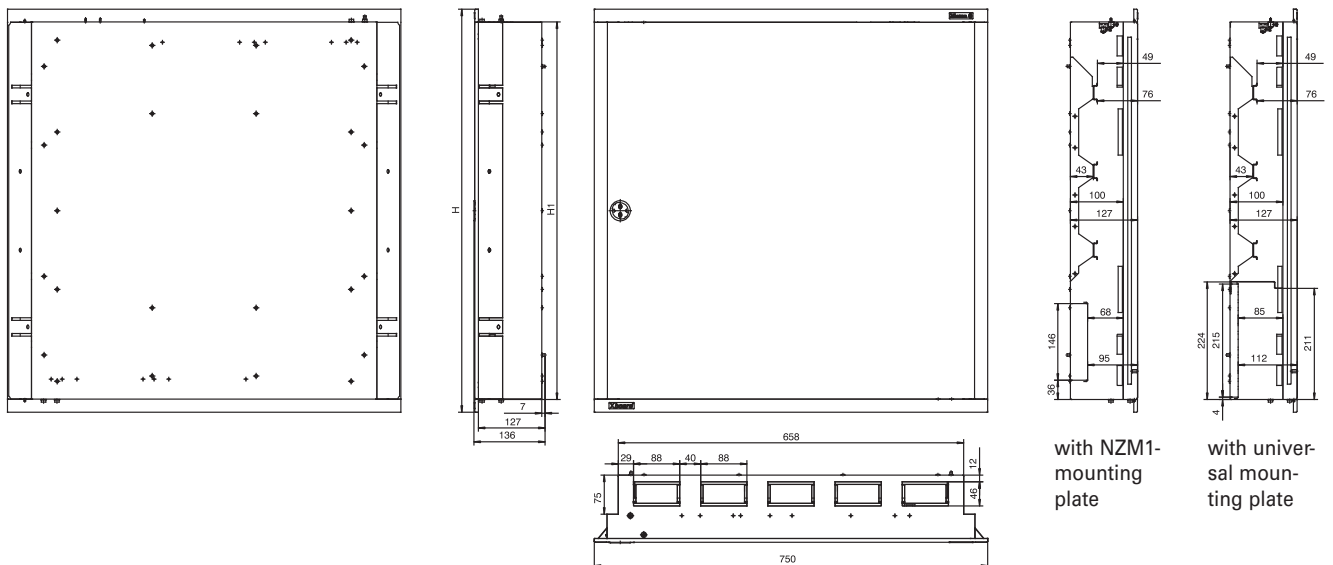
### Dimensions (mm)

#### Flush-mounting Flat Distribution Boards with 24MU per row



Type	H	H1
BF-U-2/48(-G)-C	470	420
BF-U-3/72(-G)-C	620	570
BF-U-4/96(-G)-C	770	720
BF-U-5/120(-G)-C	920	870
BF-U-6/144(-G)-C	1070	1020

#### Flush-mounting Flat Distribution Boards with 33MU per row



Type	H	H1
BF-U-4/132(-G)-C	770	720
BF-U-5/165(-G)-C	920	870
BF-U-6/198(-G)-C	1070	1020

## BF-U Flush-mounted Flat Distribution Boards, IP30, Version P

Scope of Delivery:

- Wall Box with door frame
- Door with Rotary Door handle (with or without window)
- DIN-rail frame
- Front plates
- Neutral and protective earth terminals



### Flush-mounted Flat Distribution Boards BF-U-./...(-G)-P without window, complete

MU per row / Number of rows	Type designation	Article No.	Pack (pcs.)
<b>White</b>			
24 / 3	BF-U-3/72-P	285349	1
24 / 4	BF-U-4/96-P	285350	1
24 / 5	BF-U-5/120-P	285351	1
24 / 6	BF-U-6/144-P	285352	1



### Flush-mounted Flat Distribution Boards BF-UT-./...(-G)-P with window, complete

MU per row / Number of rows	Type designation	Article No.	Pack (pcs.)
<b>White</b>			
24 / 3	BF-UT-3/72-P	289133	1
24 / 4	BF-UT-4/96-P	289134	1
24 / 5	BF-UT-5/120-P	289135	1
24 / 6	BF-UT-6/144-P	289136	1



## BF-U Flush-mounted Flat Distribution Boards, IP30, Version P

### Technical Data BF-U-./..-P

- Flat installation distribution board for flush-mounting
- 3- to 6-rows with 24 MU per row

#### Enclosure:

- Closed Construction including rear wall
- Rear wall useable as mounting area
- 2 cable entry flanges at flat distribution board with 24MU width at the top
- Pre stamped cable entry openings at the bottom
- Terminals pre mounted at the enclosure (no losing of Module Units)

#### Wall Box:

- Wall Box with door frame
- Rear wall useable as mounting area
- Easy removeable knock-outs
- 127 mm depth
- Terminals pre mounted at the enclosure (no losing of Module Units)
- 4 lateral mounting straps

#### Door:

- Steel sheet door with rotary door handle white or steel sheet door with window and rotary door handle white in the scope of delivery
- Steel sheet door with additional depth (required to install RMQ-Components at the door) is available as accessory (**BFZ-OTR-./...**)

#### DIN-Rail Frame:

- Removable DIN-rail frame
- For 45 mm Switchgear
- 150 mm distance between DIN-Rails
- Eaton MCCB integrate able by mounting set (**BFZ-NZM1-SET/(33)**)
- Universal mounting set for flush mounted enclosure (**BFZ-U-MPL...**)

#### Front plate:

- Contacting of the metal front plate by special catch on enclosure

#### Electrical

Design according to	EN 61439-1,-3 EN 62208
Protection class	IP30 according to EN 60529
Protection class	I
Rated voltage	AC 240/415V; 50/60 Hz
Rated isolation voltage	AC 415V
Rated current range	max. 125/160 A (according to Incoming switch)
Max. power loss for all devices integrated in the flat distribution board at an ambient temperature of 35°C:	
BF-U-3/72	81 W
BF-U-4/96	94 W
BF-U-5/120	108 W
BF-U-6/144	122 W

#### Mechanical

Enclosure	Steel sheet Polyester powder coated
Door	Steel sheet Polyester powder coated
Front plates	Steel sheet Polyester powder coated
DIN-rail frame	Steel sheet galvanised
Terminal support	PPO
Colour	white RAL 9016
Distance between DIN-Rails	150 mm
N/PE terminals max. 63 A	
	N PE
BF-U-3/72	2x25mm <sup>2</sup> +43x16mm <sup>2</sup> 2x25mm <sup>2</sup> +43x16mm <sup>2</sup>
BF-U-4/96	2x25mm <sup>2</sup> +58x16mm <sup>2</sup> 2x25mm <sup>2</sup> +58x16mm <sup>2</sup>
BF-U-5/120	2x25mm <sup>2</sup> +58x16mm <sup>2</sup> 2x25mm <sup>2</sup> +58x16mm <sup>2</sup>
BF-U-6/144	2x25mm <sup>2</sup> +58x16mm <sup>2</sup> 2x25mm <sup>2</sup> +58x16mm <sup>2</sup>

#### Cable entries above

##### 24MU per row

Relief stamp: 4x (88x46mm)

#### Cable entries below

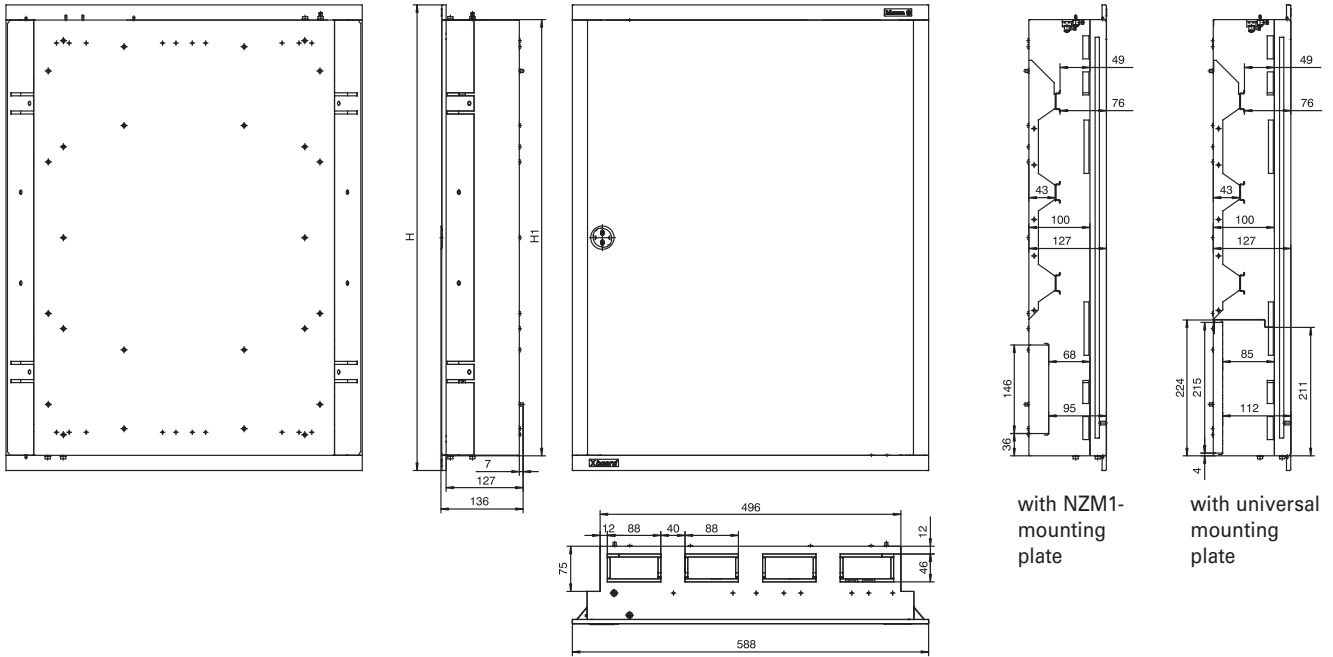
##### 24MU per row

Relief stamp: 4x (88x46mm)

## BF-U Flush-mounted Flat Distribution Boards, IP30, Version P

### Dimensions (mm)

#### Flush-mounting Flat Distribution Boards with 24MU per row



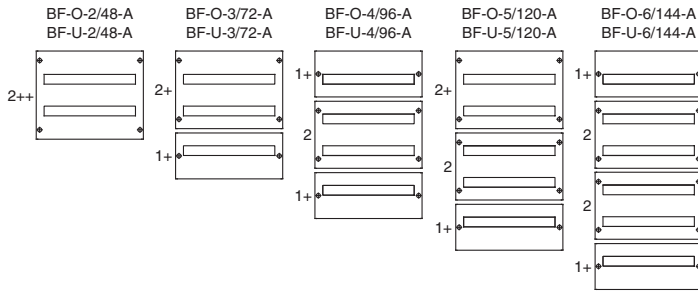
Type	H	H1
BF-U(T)-3/72-P	620	570
BF-U(T)-4/96-P	770	720
BF-U(T)-5/120-P	920	870
BF-U(T)-6/144-P	1070	1020

## BF-U Flush-mounted Flat Distribution Boards, IP30

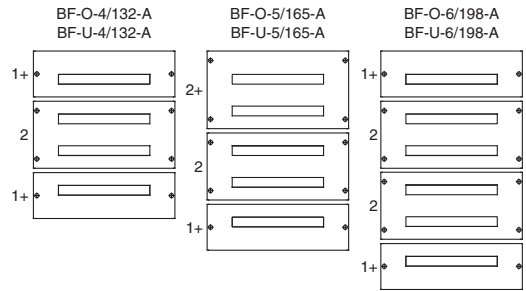
### Allocation of front plate

#### Allocation of front plate (Delivery status), Version A

24MU per row

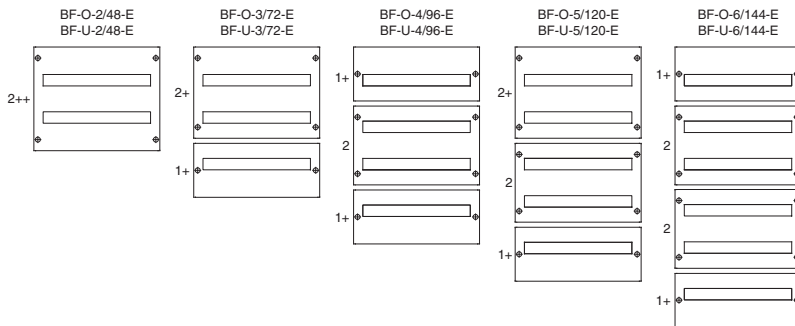


33MU per row



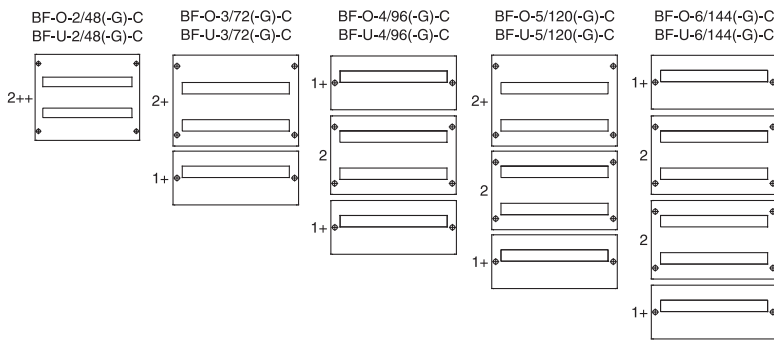
#### Allocation of front plate (Delivery status), Version E

24MU per row

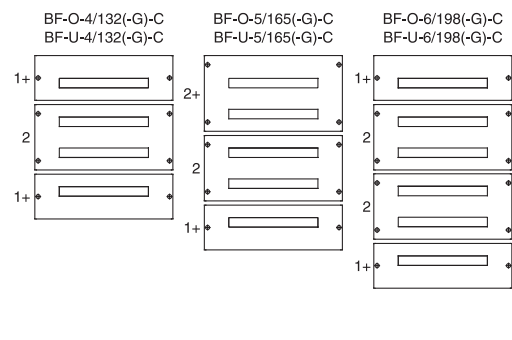


#### Allocation of front plate (Delivery status), Version C

24MU per row

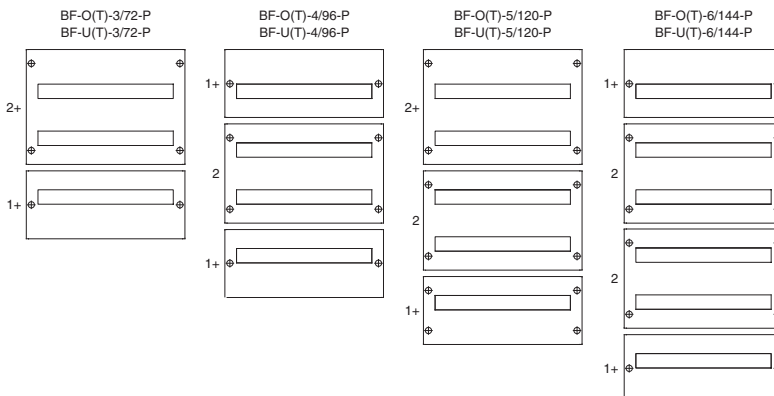


33MU per row



#### Allocation of front plate (Delivery status), Version P

24MU per row



## EWK Surface-mounted Field Distribution Boards, IP43

VT94514



- Degree of protection IP43, IK09
- Protection class II, fully insulated
- 160 mm enclosure depth
- Complete with door and installation field for add-on devices
- Combined plug-type terminals for neutral and protective conductor

VT90414



- Device cover with quick-acting closure
- 36 to 288 module units, 3 to 6 rows
- 16 different enclosure sizes
- Design with either one or two doors
- Larger enclosures with 3-point rod lock
- DIN carrier structure is fully withdrawable
- Stable and torsion-resistant DIN rail
- Large wiring area behind the DIN rail
- Possibility for direct fixing on the wall
- Quick and easy inversion of the door hinges
- 2K membrane flanges
- Body RAL 9016, door of non-transparent sheet steel

## EWK Surface-Mounted Field Distribution Boards, IP43

### Type Key

EWK	-	05		06		1	
Surface-mounted	-	Width	mm	Height	mm	Depth	mm
Field distribution board complete		MU					
		03	300	05	500	1	160
		05	550	06	650		
		08	800	08	800		
		10	1050	09	950		

## System Overview - EWK Surface-mounted Field Distribution Boards, IP43

Compact DB fields Design	Protection class II (fully insulated)	Meets the European Standard EN 62208 <sup>1)</sup> or EN 61439-3	IP43	IP54	RAL 9016	N/PE Terminals included	Installation included
EWK-...	■	■ <sup>1)</sup>	■	-	■ <sup>2)</sup>	■ <sup>3)</sup>	■ <sup>4)</sup>
EWS-...	■	■ <sup>1)</sup>	■	-	■ <sup>2)</sup>	-	-
EWP-...	■	■ <sup>1)</sup>	-	■	■ <sup>2)</sup>	-	-




<sup>1)</sup> Prerequisite for transforming an empty enclosure into a distribution board according to IEC/EN 61439-3

<sup>2)</sup> Body and door

<sup>3)</sup> Combined plug-type terminal

<sup>4)</sup> Installation fields are fully withdrawable

## Legend EWK Surface-mounted Field Distribution Boards, IP43





Symbol	Explanation
	Protective insulation, according to EN 60670-24.
	Approved for indoor applications only.
	Glow-wire test according to IEC/EN 62208.

## EWK Surface-mounted Field Distribution Boards, IP43

### IP 43 (IK 09)



- Degree of protection IP43, IK09
- Protection class II, fully insulated
- Surface-mounted, enclosure depth of 160 mm
- Complete with door and installation field for add-on devices
- Combined plug-type terminals for neutral and protective conductor are included
- Device cover with quick-acting closure
- DIN carrier structure is fully withdrawable
- Stable and torsion-resistant DIN rail
- Large wiring area behind the DIN rail
- Possibility of direct fastening on the wall
- Wall-fastening straps are optionally available as an accessory
- Quick and easy inversion of the door hinges, 110° opening angle
- As of a width of 800 mm, the DB comes with a 3-point rod lock
- Standard closure is made of plastic, can be lead-sealed, other types of closures are available as an optional accessory
- 2K membrane flanges, at the top and bottom
- Body and door RAL9016, powder-coated
- According to EN 61439-3, rated current max. 125A

	Rows / MU	Description	Dimensions W x H x D [mm]	Type designation	Article No.	Pack (pcs.)
<b>3 rows</b>						
VT94514 	3 / 36	with 1x PE and 1x N comb. plug-type terminal 6x 1.5-16 mm <sup>2</sup> + 21x 0.75-4 mm <sup>2</sup>	300x500x160	EWK-03051	174651	1
VT94214 	3 / 72	with 2x PE and 2x N comb. plug-type terminal 6x 1.5-16 mm <sup>2</sup> + 21x 0.75-4 mm <sup>2</sup>	550x500x160	EWK-05051	174652	1
VT93914 	3 / 108	with 3x PE and 3x N comb. plug-type terminal 6x 1.5-16 mm <sup>2</sup> + 21x 0.75-4 mm <sup>2</sup>	800x500x160	EWK-08051	174653	1
VT93414 	3 / 144	with 4x PE and 4x N comb. plug-type terminal 6x 1.5-16 mm <sup>2</sup> + 21x 0.75-4 mm <sup>2</sup>	1050x500x160	EWK-10051	174654	1

## EWK Surface-mounted Field Distribution Boards, IP43

### IP 43 (IK 09)







	Rows / MUs	Description	Dimensions W x H x D [mm]	Type designation	Article No.	Pack (pcs.)
<b>4 rows</b>						
VT93114 	4 / 48	with 1x PE and 1x N comb. plug-type terminal 6x 1.5-16 mm <sup>2</sup> + 21x 0.75-4 mm <sup>2</sup>	300x650x160	EWK-03061	174655	1
VT92114 	4 / 96	with 2x PE and 2x N comb. plug-type terminal 6x 1.5-16 mm <sup>2</sup> + 21x 0.75-4 mm <sup>2</sup>	550x650x160	EWK-05061	174656	1
VT92514 	4 / 144	with 3x PE and 3x N comb. plug-type terminal 6x 1.5-16 mm <sup>2</sup> + 21x 0.75-4 mm <sup>2</sup>	800x650x160	EWK-08061	174657	1
VT92214 	4 / 192	with 4x PE and 4x N comb. plug-type terminal 6x 1.5-16 mm <sup>2</sup> + 21x 0.75-4 mm <sup>2</sup>	1050x650x160	EWK-10061	174658	1

## EWK Surface-mounted Field Distribution Boards, IP43

### IP 43 (IK 09)







	Rows / MUs	Description	Dimensions W x H x D [mm]	Typen designation	Article No.	Pack (pcs.)
<b>5 rows</b>						
 <p>VT91914</p>	5 / 60	with 1x PE and 1x N comb. plug-type terminal 6x 1.5-16 mm <sup>2</sup> + 21x 0.75-4 mm <sup>2</sup>	300x800x160	EWK-03081	174659	1
 <p>VT91614</p>	5 / 120	with 2x PE and 2x N comb. plug-type terminal 6x 1.5-16 mm <sup>2</sup> + 21x 0.75-4 mm <sup>2</sup>	550x800x160	EWK-05081	174660	1
 <p>VT91014</p>	5 / 180	with 3x PE and 3x N comb. plug-type terminal 6x 1.5-16 mm <sup>2</sup> + 21x 0.75-4 mm <sup>2</sup>	800x800x160	EWK-08081	174661	1
 <p>VT90714</p>	5 / 240	with 4x PE and 4x N comb. plug-type terminal 6x 1.5-16 mm <sup>2</sup> + 21x 0.75-4 mm <sup>2</sup>	1050x800x160	EWK-10081	174662	1

## EWK Surface-mounted Field Distribution Boards, IP43

### IP 43 (IK 09)



Rows / MUs	Description	Dimensions W x H x D [mm]	Type designation	Article No.	Pack (pcs.)
<b>6 rows</b>					
VT91314 	6 / 72 with 1x PE and 1x N comb. plug-type terminal 6x 1.5-16 mm <sup>2</sup> + 21x 0.75-4 mm <sup>2</sup>	300x950x160	EWK-03091	174663	1
VT89814 	6 / 144 with 2x PE and 2x N comb. plug-type terminal 6x 1.5-16 mm <sup>2</sup> + 21x 0.75-4 mm <sup>2</sup>	550x950x160	EWK-05091	174664	1
VT90114 	6 / 216 with 3x PE and 3x N comb. plug-type terminal 6x 1.5-16 mm <sup>2</sup> + 21x 0.75-4 mm <sup>2</sup>	800x950x160	EWK-08091	174665	1
VT90414 	6 / 288 with 4x PE and 4x N comb. plug-type terminal 6x 1.5-16 mm <sup>2</sup> + 21x 0.75-4 mm <sup>2</sup>	1050x950x160	EWK-10091	174666	1

## EWK Surface-mounted Field Distribution Boards, IP43

### Technical Details EWK-...

		Unit
<b>Electrical</b>		
Design according to		IEC/EN 61439-3
Degree of protection		IP43 (IK09) according to EN 60529
Protection class		II, fully insulated
Rated voltage	V	400 AC
Rated current max.	A	125
Insulation voltage	V	1000 AC
Max. power loss admitted for all devices installed in the distribution board, at 20°K temperature difference and 75% height:		
EWK-03051	W	21
EWK-05051	W	35
EWK-08051	W	49
EWK-10051	W	62
EWK-03061	W	26
EWK-05061	W	41
EWK-08061	W	57
EWK-10061	W	70
EWK-03081	W	32
EWK-05081	W	47
EWK-08081	W	67
EWK-10081	W	84
EWK-03091	W	36
EWK-05091	W	55
EWK-08091	W	73
EWK-10091	W	99

### Mechanical

Material:		
Enclosure		Sheet steel, powder-coated with corrosion protection, inside lined with plastic (Polystyrole).
Door/frame		Sheet steel, powder-coated with corrosion protection
Colour of the enclosure		White RAL 9016
Colour of the door		Non-transparent, white RAL 9016
Door opening angle	°	110
Distance between the rows	mm	125
Device carrier rail		DIN rail 35 x 15 mm sheet steel, galvanised
UV resistant		No
Installation type		
EWK-...		Indoor
Halogen-free, RoHs		<1%, yes

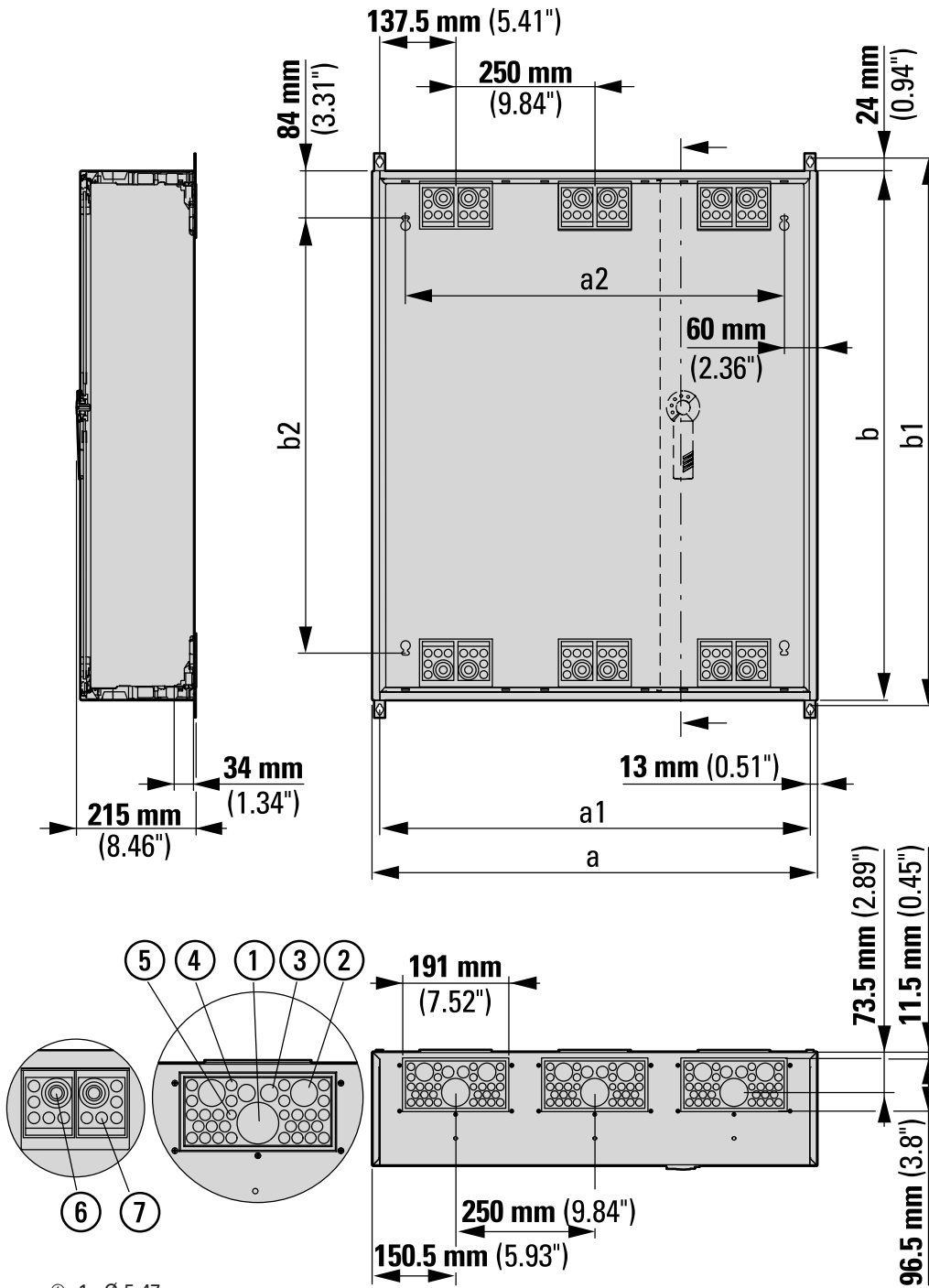
### Metrical pre-punched holes

EWK-03...		1x 2K membrane flange top 1x 2K membrane flange bottom
EWK-05...		2x 2K membrane flange top 2x 2K membrane flange bottom
EWK-08...		3x 2K membrane flange top 3x 2K membrane flange bottom
EWK-10...		4x 2K membrane flange top 4x 2K membrane flange bottom
Per 2K membrane flange:		1x 5-47 mm 2x 5-29 mm 2x 5-18 mm 28x 5-11 mm 2x 5-9 mm 2x 16/21/29/38 mm 10x 16 mm

Note: The tightening torques [Nm] of the N/PE combined plug-type terminal are indicated on the terminal enclosure.

## EWK Surface-mounted Field Distribution Boards, IP43

### Dimensions (mm)



- ① 1x Ø 5-47 mm
- ② 2x Ø 5-29 mm
- ③ 2x Ø 5-18 mm
- ④ 28x Ø 5-11 mm
- ⑤ 2x Ø 5-9 mm
- ⑥ 2x Ø 16/21/29/38 mm
- ⑦ 10x Ø 16 mm

See next page for tables specifying the respective values!

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## EWK Surface-mounted Field Distribution Boards, IP43

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### Dimensions (mm)

Type	a [mm]	b [mm]	a1 [mm]	b1 [mm]	a2 [mm]	b2 [mm]
EWK-03051	301	502	275	535	181	333
EWK-05051	551	502	525	535	431	333
EWK-08051	801	502	775	535	681	333
EWK-10051	1051	502	1025	535	931	333
EWK-03061	301	652	275	685	181	483
EWK-05061	551	652	525	685	431	483
EWK-08061	801	652	775	685	681	483
EWK-10061	1051	652	1025	685	931	483
EWK-03081	301	802	275	835	181	633
EWK-05081	551	802	525	835	431	633
EWK-08081	801	802	775	835	681	633
EWK-10081	1051	802	1025	835	931	633
EWK-03091	301	952	275	985	181	783
EWK-05091	551	952	525	985	431	783
EWK-08091	801	952	775	985	681	783
EWK-10091	1051	952	1025	985	931	783

## Additional Equipment, Spare Parts

VT30414



VT29914



VT30314



VT27614



P19\_UP1-KLV



P19\_GAU1-KLV



P19\_MIP3-KLV





## Additional Equipment / Spare Parts Mini

Suitable for	Description	Type designation	Article No.	Pack (pcs.)
<b>Window</b>				
1 / 2	Transparent window	T2-MINI	177076	1 / 10
1 / 3	Transparent window	T3-MINI	177077	1 / 10
1 / 4	Transparent window	T4-MINI	177078	1 / 10
1 / 5	Transparent window	T5-MINI	177079	1 / 10
1 / 6	Transparent window	T6-MINI	177080	1 / 10







VT79314



## Additional Equipment / Spare Parts IKA-...

	Suitable for	Description	Type designation	Article No.	Pack (pcs.)
<b>Lock with 2 spare keys</b>					
	all IKA	lock with 2 keys, keyed alike	LOCK-KIT-IKA	174166	1
<b>Linking element</b>					
	all IKA	M32 linking element for linking several IKA enclosures placed next to each other	M32LUG-IKA	174168	2
<b>IP2X Screw terminal</b>					
	1 / 4	N/PE screw termin.	N/PE-4-IKA	174169	1
	1 / 6	2x 4.5 + 2x 5.5 mm <sup>2</sup> each and 1x 8.5 mm <sup>2</sup> each			
	1 / 8	N/PE screw termin. 2x 4.5 + 2x 5.5 mm <sup>2</sup> each and 1x 8.5 mm <sup>2</sup> each	N/PE-8-IKA	174171	1
	1 / 12	N/PE screw termin. 6x 4.5 + 6x 5.5 mm <sup>2</sup> each and 1x 7.5 + 1x 8.5 mm <sup>2</sup> each	N/PE-12-IKA	174172	1
	2 / 24	N/PE screw termin.	N/PE-24-IKA	174173	1
	1 / 18	8x 4.5 + 8x 5.5 mm <sup>2</sup> each and 1x 7.5 + 1x 8.5 mm <sup>2</sup> each			
	3 / 36	N/PE screw termin.	N/PE-3/36-IKA	174174	1
	2 / 36	12x 4.5 + 12x 5.5 mm <sup>2</sup> each and 1x 7.5 + 1x 8.5 mm <sup>2</sup> each			
	3 / 54	N/PE screw termin. 16x 4.5 + 16x 5.5 mm <sup>2</sup> each and 2x 7.5 + 2x 8.5 mm <sup>2</sup> each	N/PE-54-IKA	174177	1









## Additional Equipment / Spare Parts IKA-...

	Suitable for	Description	Type designation	Article No.	Pack (pcs.)
<b>Spare closing bolts</b>					
	all IKA	Closing plug made of insulating material, lead-sealable	BOLT-IKA	174178	20
<b>Spare hinges</b>					
	all IKA	Hinges made of insulating material	HINGE-IKA	174186	20
<b>Spare lock</b>					
	all IKA	Lock consisting of locking unit and logo clip	ETN-IKA	174185	10
<b>Spare plug</b>					
	all IKA	Plugs for covering the holes for wall-mounting	HCAP-IKA	174167	20
<b>Spare doors</b>					
	1 / 4	Transparent, incl. lock	DOOR-1/4-T-IKA	174179	1
		Non-transparent, incl. lock	DOOR-1/4-R-IKA <sup>1)</sup>	174227	1
	1 / 6	Transparent, incl. lock	DOOR-1/6-T-IKA	174180	1
		Non-transparent, incl. lock	DOOR-1/6-R-IKA <sup>1)</sup>	174228	1
	1 / 8	Transparent, incl. lock	DOOR-1/8-T-IKA	174181	1
		Non-transparent, incl. lock	DOOR-1/8-R-IKA <sup>1)</sup>	174229	1
	1 / 12	Transparent, incl. lock	DOOR-1/12-T-IKA	174182	1
		Non-transparent, incl. lock	DOOR-1/12-R-IKA <sup>1)</sup>	174230	1
	2 / 24	Transparent, incl. lock	DOOR-2/24-T-IKA	174183	1
		Non-transparent, incl. lock	DOOR-2/24-R-IKA <sup>1)</sup>	174231	1
	3 / 36	Transparent, incl. lock	DOOR-3/36-T-IKA	174223	1
		Non-transparent, incl. lock	DOOR-3/36-R-IKA <sup>1)</sup>	174232	1
	1 / 18	Transparent, incl. lock	DOOR-1/18-T-IKA	174224	1
		Non-transparent, incl. lock	DOOR-1/18-R-IKA <sup>1)</sup>	174233	1
	2 / 36	Transparent, incl. lock	DOOR-2/36-T-IKA	174225	1
		Non-transparent, incl. lock	DOOR-2/36-R-IKA <sup>1)</sup>	174234	1
	3 / 54	Transparent, incl. lock	DOOR-3/54-T-IKA	174226	1
		Non-transparent, incl. lock	DOOR-3/54-R-IKA <sup>1)</sup>	174184	1

<sup>1)</sup> Available upon request





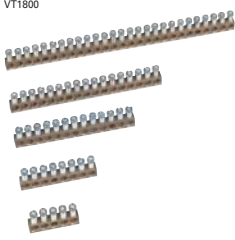



## Additional Equipment KLV-...

- Combined plug-type terminal with plug-in terminal points for 0.5-4 mm<sup>2</sup> round conductors and screw-type terminal points for 2.5-25 mm<sup>2</sup> round conductors
- Terminal carriers KSK-KLV can be expanded by up to 4 individual N blocks for separate RCD protective circuits, or by additional PE blocks
- Terminal carriers are easy to snap on without any tools
- Finger proof IP2X

	Can be used for	Description	Type designation	Article No.	Pack (pcs.)
<b>Equipped combined plug-type terminal KSK</b>					
	1x N potential 1x PE potential	<b>N/PE</b> comb. plug-type terminal 2x 2.5-25 mm <sup>2</sup> each and 14x 0.5-4 mm <sup>2</sup> each	KSK-2N/2PE-KLV	178898	1
	1x N potential	<b>N</b> comb. plug-type terminal 4x 2.5-25 mm <sup>2</sup> and 28x 0.5-4 mm <sup>2</sup>	KSK-4N-KLV	178899	1
	2x N potential	<b>N/N</b> comb. plug-type terminal 4x 2.5-25 mm <sup>2</sup> and 28x 0.5-4 mm <sup>2</sup>	KSK-3N/1N-KLV	178900	1
	2x N potential	<b>N/N</b> comb. plug-type terminal 4x 2.5-25 mm <sup>2</sup> and 28x 0.5-4 mm <sup>2</sup>	KSK-2N/2N-KLV	178901	1
	1x PE potential	<b>PE</b> comb. plug-type terminal 4x 2.5-25 mm <sup>2</sup> and 28x 0.5-4 mm <sup>2</sup>	KSK-4PE-KLV	178902	1
<b>Individual combined plug-type terminal KSK</b>					
	1x N potential	<b>N</b> comb. plug-type terminal 1x 2.5-25 mm <sup>2</sup> 7x 0.5-4 mm <sup>2</sup>	KSK-N	178903	1/10
	1x PE potential	<b>PE</b> comb. plug-type terminal 1x 2.5-25 mm <sup>2</sup> 7x 0.5-4 mm <sup>2</sup>	KSK-PE	178904	1/10
	KSK-N and KSK-PE	<b>Terminal carrier</b> empty suitable for up to 4x KSK-N and/or 4x KSK-PE	KSK-KLV	178905	1/10

## Additional Equipment KLV-...

- N/PE screw-type terminal, electric shock protection for 0.75-25 mm<sup>2</sup> round conductors
- Terminal carriers SK-KLV can be expanded by additional N blocks for separate RCD protective circuits
- The additional block is easy to insert in the terminal carrier
- Cover in blue, green or blue/green

	Suitable for	Description	Type designation	Article No.	Pack (pcs.)
<b>Equipped screw-type terminal SK</b>					
 P16_SK-13N_PE-KLV	1x N potential 1x PE potential	<b>N/PE</b> screw-type termin. 13x 0.75-16 mm <sup>2</sup> (N) and 13x 0.75-16 mm <sup>2</sup> (PE)	SK-13N/PE-KLV	178906	1
 P16_SK-13N_16PE-KLV	1x N potential 1x PE potential	<b>N/PE</b> screw-type termin. 13x 0.75-16 mm <sup>2</sup> (N) and 16x 0.75-16 mm <sup>2</sup> (PE)	SK-13N/16PE-KLV	178907	1
 P16_SK-25N-KLV	1x N potential	<b>N</b> screw-type terminal 25x 0.75-16 mm <sup>2</sup> (N)	SK-25N-KLV	178908	1
 P16_SK-25PE-KLV	1x PE potential	<b>PE</b> screw-type terminal 25x 0.75-16 mm <sup>2</sup> (N)	SK-25PE-KLV	178909	1
<b>Individual screw-type terminal KL</b>					
 VT1800	N potential or PE potential	1x 25 mm <sup>2</sup> + 3x 16 mm <sup>2</sup>	KL-4	219723	1
		1x 25 mm <sup>2</sup> + 6x 16 mm <sup>2</sup>	KL-7	219724	1
		2x 25 mm <sup>2</sup> + 9x 16 mm <sup>2</sup>	KL-11	219725	1
		2x 25 mm <sup>2</sup> + 13x 16 mm <sup>2</sup>	KL-15	219726	1
		2x 25 mm <sup>2</sup> + 23x 16 mm <sup>2</sup>	KL-25	219727	1
 P16_SK-KLV	KL-4 to KL-25	Terminal carrier empty suitable for up to 27x screw-terminal points, incl. cover in blue and green	SK-KLV	178910	1
 P16_N-FI-KLV	1x N potential	N-FI expansion terminal for wall pan with screw-type terminal 1x 25 mm <sup>2</sup> + 3x 16 mm <sup>2</sup> incl. cover in blue	N-FI-KLV	178911	1
 VT19105	SK-...KLV	Expansion terminal with screw-type connection 1x 35 mm <sup>2</sup>	KLA	275453	1

## Additional Equipment KLV-...

Can be used for	Description	Type designation	Article No.	Pack (pcs.)
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### Lock set LOCK-KLV

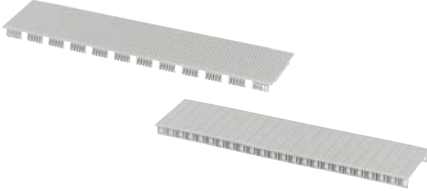
P17\_LOCK-KLV



KLV-...	Lock set for sheet steel door, keyed alike, incl. 2 keys	LOCK-KLV	178930	1
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### Empty-space cover BS-...-WH

v113114, v113414



All Eaton distribution b.	Empty-space cover, white, fine-ribbed, 12 MU	BS-12MF-WH	178975	10/100
	Empty-space cover, gray, fine-ribbed, 12 MU	BS-12MF-GY	178980	10/100
	Empty-space cover, black, fine-ribbed, 12 MU	BS-12MF-BK	178981	10/100
	Empty-space cover, white, fine-ribbed, 6 MU	BS-6MF-WH	178976	10/100
	Empty-space cover, black, fine-ribbed, 6 MU	BS-6MF-BK	178982	10/100
	Empty-space cover, white, rough-ribbed, 12 MU	BS-12MB-WH	178977	10/100
	Empty-space cover, gray, rough-ribbed, 12 MU	BS-12MB-GY	178979	10/100
	Empty-space cover, white, rough-ribbed, 6 MU	BS-6MB-WH	178978	10/100

Description	Can be used for	Type designation	Article No.	Pack (pcs.)
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### Internal partition <sup>1)</sup>

P17\_HS-KLV



Partition horizontal as a partition between the rows, insulation material, can be combined with VS...-KLV	1 - 4 rows KLV-HW... and KLV-UP...	HS-KLV	178931	1
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P17\_VS2-KLV



Partition vertical for internal separation, insulation material, can be comb. w. HS-KLV	KLV-12...	VS1-KLV	178932	1
	KLV-24...	VS2-KLV	178933	1
	KLV-36...	VS3-KLV	178934	1
	KLV-48...	VS4-KLV	178935	1

### Reinforcement template VSB...-KLV

P17\_VSB2-KLV



Reinforcement template for poured concrete mounting	KLV-12...	VSB1-KLV	178936	1
	KLV-24...	VSB2-KLV	178937	1
	KLV-36...	VSB3-KLV	178938	1
	KLV-48...	VSB4-KLV	178939	1

Can be used for	Type	Article No. designation	Pack (pcs.)
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### Industrial cable tie-wrap ITB

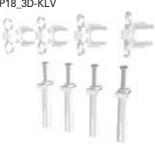







VT08809












KLV-...	Continuously ribbed to the tip, colour natural, flame retardant UL94 V2	ITB1	083550	1000
		ITB2	085923	1000
		ITB3	088296	100

<sup>1)</sup> Not suitable for multimedia








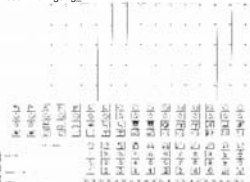
## Additional Equipment KLV-...

	Description	Can be used for	Type designation	Article No.	Pack (pcs.)
 <p>P18_3D-KLV</p>	<p><b>3D Plaster compensation</b></p> <p>3D plaster compensation as a set in a pouch</p>	KLV-...	3D-KLV	178940	1
<b>Hollow-wall anchor</b>					
 <p>P18_HWS-KLV</p>	<p>Hollow-wall anchor as a set in a pouch</p>	KLV-...	HWS-KLV	178941	1
<b>Nail straps</b>					
 <p>P18_NL-KLV</p>	<p>Nail straps as a set in a pouch</p>	KLV-...	NL-KLV	178942	1
<b>Rotary bolt lock</b>					
 <p>P18_DV-KLV</p>	<p>Rotary bolt lock white</p>	KLV-...	DV-KLV	178943	1
<b>Flange</b>					
 <p>P18_FUP-KLV</p>	Spare flange	KLV-UP...	FUP-KLV	178944	1
	without spirit level	KLV-HW...	FHW-KLV	178945	1
<b>Hinge</b>					
 <p>P18_HP-KLV</p>	<p>Spare hinges 1 pair in a pouch</p>	KLV-...	HP-KLV	178946	1
<b>Cable holders</b>					
 <p>P18_KH-KLV</p>	<p>Cable holders 4 units in a pouch</p>	KLV-...	KH-KLV	178947	1
<b>Closing screws</b>					
 <p>P18_VS-KLV</p>	<p>Closing screws 4 units in a pouch</p>	KLV-...	VS-KLV	178948	1

## Additional Equipment KLV-...





	Description	Can be used for	Type designation	Article No.	Pack (pcs.)
	Spare wall pan flush-mounted	KLV-UP...	UP1-KLV	178949	1
			UP2-KLV	178950	1
			UP3-KLV	178951	1
			UP4-KLV	178952	1
			<hr/>		
	Spare wall pan hollow-wall	KLV-HW...	HW1-KLV	178953	1
			HW2-KLV	178954	1
			HW3-KLV	178955	1
			HW4-KLV	178956	1
			<hr/>		
	Spare carrier rails incl. fixing screws	KLV-...	TS1-KLV	178957	1
			TS2-KLV	178958	1
			TS3-KLV	178959	1
			TS4-KLV	178960	1
			<hr/>		
	Spare device cover flush-mounted	KLV-UP...	GAU1-KLV	178961	1
			GAU2-KLV	178962	1
			GAU3-KLV	178963	1
			GAU4-KLV	178964	1
			<hr/>		
	Spare device cover hollow-wall	KLV-HW...	GAH1-KLV	178965	1
			GAH2-KLV	178912	1
			GAH3-KLV	178913	1
			GAH4-KLV	178914	1
			<hr/>		
	Add-on connector set for DBs, <b>side by side</b> , 1 pair in a pouch	KLV-...	AVH-KLV	178915	1
	Add-on connector set for DBs, <b>on top of each other</b> , 1 pair in a pouch	KLV-...	AVV-KLV	178916	1
	Mounting plate, micro-perforated, galvanised sheet steel, incl. fixing screws	KLV-36... KLV-48...	MIP3-KLV	178917	1
			MIP4-KLV	178918	1
			<hr/>		
	Rounded head screw M4x8 thread-forming	MIP3-KLV MIP4-KLV	EPLHS-M4X8	144028	1/100

## Additional Equipment KLV-...

	Description	Can be used for	Type designation	Article No.	Pack (pcs.)
<b>Doors</b>					
 <p>P20_T1-KLV</p>	Spare door white, without hinges and without rotary bolt lock	KLV-...-F and KLV-...-SF	T1-KLV	178919	1
			T2-KLV	178920	1
			T3-KLV	178921	1
			T4-KLV	178922	1
<b>Doors with ventilation slots</b>					
 <p>P20_TM3-KLV</p>	Spare doors with ventilation slots white, without hinges and without rotary bolt lock	KLV-...-F and KLV-...-SF	TM3-KLV	178923	1
			TM4-KLV	178924	1
<b>Door frames</b>					
 <p>P20_TRF1-KLV</p>	Spare door frames optionally flat (F) or super flat (SF), white, without hinges and without 3D plaster compensation	KLV-...	TRF1-KLV	178925	1
			TRF2-KLV	178926	1
			TRF3-KLV	178927	1
			TRF4-KLV	178928	1
			TRSF1-KLV	178929	1
			TRSF2-KLV	178966	1
			TRSF3-KLV	178967	1
TRSF4-KLV	178968	1			
<b>Device holder</b>					
 <p>P20_GH-KLV</p>	Device holder for multimedia DBs, incl. fixing screws	Multimedia	GH-KLV	178969	1
<b>Single and double electricity socket EURO2</b>					
 <p>P20_S1-KLV, P20_S2-KLV</p>	Socket with EURO2 insert and plug-in technology up to 2.5 mm <sup>2</sup> for multimedia DBs, incl. fixing screws	Multimedia	S1-KLV	178970	1
			S2-KLV	178971	1
<b>Holding bracket for sockets</b>					
 <p>P20_HA-KLV</p>	Holding bracket for multimedia DBs, incl. fixing screws	Multimedia	HA-KLV	178972	1
<b>Data module</b>					
 <p>P21_E-DAT-RJ45</p>	Data module for the carrier rail 1 MU, with RJ45 jack or F/IEC coaxial jack	RJ45	E-DAT-RJ45	178973	1
		Coaxial	E-DAT-F/IEC-B	178974	1
<b>Labels sheet</b>					
 <p>Beschriftungsbg_1</p>	Labels sheet self-adhesive, for power circuit labelling and numbering, photo symbols	KLV-...	KLV-BSB	279268	1/10


## Additional Equipment / Spare Parts BF-O..., BF-U...

### Doors sheet steel, BFZ-TS

	for: MU per rows / Number of rows	Type designation	Article No.	Pack (pcs.)
 <p>VT15004</p>	<b>For surface-mounting enclosure white</b>			
	24 / 2	BFZ-OTS-2/48	283070	1
	24 / 3	BFZ-OTS-3/72	283071	1
	24 / 4	BFZ-OTS-4/96	283072	1
	24 / 5	BFZ-OTS-5/120	283073	1
	24 / 6	BFZ-OTS-6/144	283074	1
	33 / 4	BFZ-OTS-4/132	240756	1
	33 / 5	BFZ-OTS-5/165	240757	1
	33 / 6	BFZ-OTS-6/198	240758	1
 <p>VT15705</p>	<b>For flush-mounting enclosure white</b>			
	24 / 2	BFZ-UTS-2/48	283084	1
	24 / 3	BFZ-UTS-3/72	283085	1
	24 / 4	BFZ-UTS-4/96	283086	1
	24 / 5	BFZ-UTS-5/120	283087	1
	24 / 6	BFZ-UTS-6/144	283088	1
	33 / 4	BFZ-UTS-4/132	240759	1
	33 / 5	BFZ-UTS-5/165	240760	1
	33 / 6	BFZ-UTS-6/198	240761	1
 <p>VT04305</p>	<b>For surface-mounting enclosure grey</b>			
	24 / 3	BFZ-OTS-3/72-G	283075	1
	24 / 4	BFZ-OTS-4/96-G	283076	1
	24 / 5	BFZ-OTS-5/120-G	283077	1
	24 / 6	BFZ-OTS-6/144-G	283078	1
 <p>VT20405</p>	<b>For flush-mounting enclosure grey</b>			
	24 / 3	BFZ-UTS-3/72-G	283089	1
	24 / 4	BFZ-UTS-4/96-G	283090	1
	24 / 5	BFZ-UTS-5/120-G	283091	1
	24 / 6	BFZ-UTS-6/144-G	283092	1



### Doors sheet steel "RMQ", BFZ-OTR

- steel-sheet doors with more depth (suitable for mounting of e.g. RMQ in the door)
- with Ronis locking-system 455



	for: MU per rows / Number of rows	Type designation	Article No.	Pack (pcs.)
 <p>wa_vt48513</p>	<b>For surface-mounting enclosure white</b>			
	24 / 2	BFZ-OTR-2/48	285643	1
	24 / 3	BFZ-OTR-3/72	285644	1
	24 / 4	BFZ-OTR-4/96	285645	1
	24 / 5	BFZ-OTR-5/120	285646	1
	24 / 6	BFZ-OTR-6/144	285647	1

## Additional Equipment / Spare Parts BF-O..., BF-U...

### Doors transparent (sheet steel), BFZ-TT



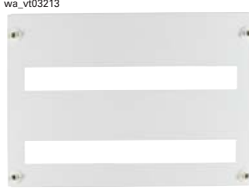



	for: MU per rows / Number of rows	Type designation	Article No.	Pack (pcs.)
<b>For surface-mounting enclosure white</b>				
	24 / 2	BFZ-OTT-2/48	283079	1
	24 / 3	BFZ-OTT-3/72	283080	1
	24 / 4	BFZ-OTT-4/96	283081	1
	24 / 5	BFZ-OTT-5/120	283082	1
	24 / 6	BFZ-OTT-6/144	283083	1
	33 / 4	BFZ-OTT-4/132	240762	1
	33 / 5	BFZ-OTT-5/165	240763	1
	33 / 6	BFZ-OTT-6/198	240764	1
<b>For flush-mounting enclosure white</b>				
	24 / 2	BFZ-UTT-2/48	283093	1
	24 / 3	BFZ-UTT-3/72	283094	1
	24 / 4	BFZ-UTT-4/96	283095	1
	24 / 5	BFZ-UTT-5/120	283096	1
	24 / 6	BFZ-UTT-6/144	285353	1
	33 / 4	BFZ-UTT-4/132	240765	1
	33 / 5	BFZ-UTT-5/165	240766	1
	33 / 6	BFZ-UTT-6/198	240767	1

### Doors transparent with Profi Line handle (sheet steel), BFZ-TT-DR

	for: MU per rows / Number of rows	Type designation	Article No.	Pack (pcs.)
<b>For surface-mounting enclosure white</b>				
	24 / 2	BFZ-OTT-DR-2/48	285222	1
	24 / 3	BFZ-OTT-DR-3/72	285223	1
	24 / 4	BFZ-OTT-DR-4/96	285224	1
	24 / 5	BFZ-OTT-DR-5/120	285225	1
	24 / 6	BFZ-OTT-DR-6/144	285226	1
	<b>For flush-mounting enclosure white</b>			
	24 / 2	BFZ-UTT-DR-2/48	285227	1
	24 / 3	BFZ-UTT-DR-3/72	285228	1
	24 / 4	BFZ-UTT-DR-4/96	285229	1
	24 / 5	BFZ-UTT-DR-5/120	285230	1
	24 / 6	BFZ-UTT-DR-6/144	285231	1


## Additional Equipment / Spare Parts BF-O..., BF-U...


### Accessories


	for: MU per rows / Number of rows	Type designation	Article No.	Pack (pcs.)	
<b>Front plates blind white, BFZ-FP</b>					
 <p>VT00205</p>	24 / 0+	BFZ-FP-0+/BL	286106	1	
	24 / 1	BFZ-FP-1/BL	293626	1	
	24 / 1+	BFZ-FP-1+/BL	286105	1	
	33 / 1	BFZ-FP-1/BL3	293627	1	
	33 / 1+	BFZ-FP-1+/BL3	240752	1	
<b>Front plates blind grey, BFZ-FP-G</b>					
 <p>VT00205</p>	24 / 0+	BFZ-FP-0+/BL-G	113694	1	
	24 / 1	BFZ-FP-1/BL-G	113695	1	
	24 / 1+	BFZ-FP-1+/BL-G	113696	1	
	33 / 1	BFZ-FP-1/BL3-G	113697	1	
	33 / 1+	BFZ-FP-1+/BL3-G	113698	1	
<b>Front plates 45mm-Device cutout white, BFZ-FP</b>					
 <p>wa_vt03213</p>	24 / 1	BFZ-FP-1/24	285650	1	
	24 / 1+	BFZ-FP-1+/24	283061	1	
	24 / 2	BFZ-FP-2/48	283060	1	
	24 / 2+	BFZ-FP-2+/48	283062	1	
	24 / 2++	BFZ-FP-2++/48	283064	1	
	24 / 3+	BFZ-FP-3+/72	283063	1	
	33 / 1	BFZ-FP-1/33	240748	1	
	33 / 1+	BFZ-FP-1+/33	240749	1	
	33 / 2	BFZ-FP-2/66	240750	1	
	33 / 2+	BFZ-FP-2+/66	240751	1	
<b>Front plates 45mm-Device cutout grey, BFZ-FP-G</b>					
 <p>wa_vt03413</p>	24 / 1	BFZ-FP-1/24-G	116883	1	
	24 / 1+	BFZ-FP-1+/24-G	283066	1	
	24 / 2	BFZ-FP-2/48-G	283065	1	
	24 / 2+	BFZ-FP-2+/48-G	283067	1	
	24 / 2++	BFZ-FP-2++/48-G	283069	1	
	24 / 3+	BFZ-FP-3+/72-G	283068	1	
	33 / 1	BFZ-FP-1/33-G	116884	1	
	33 / 1+	BFZ-FP-1+/33-G	116885	1	
	<b>DIN-rail frame (replacement), BFZ-DINS</b>				
	 <p>wa_vt09314</p>	24 / 2	BFZ-DINS-2/48	283101	1
24 / 3		BFZ-DINS-3/72	283102	1	
24 / 4		BFZ-DINS-4/96	283103	1	
24 / 5		BFZ-DINS-5/120	283104	1	
24 / 6		BFZ-DINS-6/144	283105	1	
33 / 4		BFZ-DINS-4/132	240753	1	
33 / 5		BFZ-DINS-5/165	240754	1	
33 / 6		BFZ-DINS-6/198	240755	1	
<b>Universal mounting plate, BFZ--ITMPL-1+</b>					
 <p>vt112414</p>	24 / for surface-mounting	BFZ-O-ITMPL-1+/24	285648	1	
	24 / for flush-mounting	BFZ-U-ITMPL-1+/24	285649	1	
	33 / for surface-mounting	BFZ-O-ITMPL-1+/33	240769	1	
	33 / for flush-mounting	BFZ-U-ITMPL-1+/33	240768	1	

## Additional Equipment / Spare Parts BF-O..., BF-U...


### Accessories


	Description	Type designation	Article No.	Pack (pcs.)
	<b>Set for NZM-fitting, BFZ-NZM1-SET</b>			
	24 / white	BFZ-NZM1-SET	285233	1
	24 / grey	BFZ-NZM1-SET-G	285234	1
	33 / white	BFZ-NZM1-SET/33	293628	1
	33 / grey	BFZ-NZM1-SET/33-G	113699	1

	for: MU per rows / Number of rows	Type designation	Article No.	Pack (pcs.)
	<b>Separating Plate white, BFZ-SP</b>			
	24	BFZ-SP-24	293621	1
	33	BFZ-SP-33	293622	1

		Type designation	Article No.	Pack (pcs.)
	<b>Separating Plate grey, BFZ-SP-G</b>			
	24	BFZ-SP-24-G	113700	1
	33	BFZ-SP-33-G	113701	1

		Type designation	Article No.	Pack (pcs.)
	<b>Wire Fixing Rail, BFZ-WFR</b>			
	24	BFZ-WFR-24	293623	1
	33	BFZ-WFR-33	293624	1

		Type designation	Article No.	Pack (pcs.)
	<b>Flange Plate blind (Replacement for 2K-Flange), BFZ-FLP-BL</b>			
	white	BFZ-FLP-BL	293625	1
	grey	BFZ-FLP-BL-G	113693	1

		Type designation	Article No.	Pack (pcs.)
	<b>Lock-set for door</b>			
	Lock-set for sheet steel door eyed alike, incl. 2 keys	LOCK-KLV	178930	1
	Rotary door handle Profi-Line	BFZ-LS-PLDH	110165	1

## Additional Equipment / Spare Parts BF-O..., BF-U...

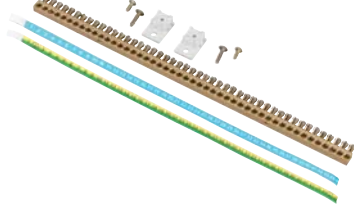
### Accessories

Description	Type designation	Article No.	Pack (pcs.)
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#### Terminal-set N/PE, BFZ-TS-KL

- max. 63 A

wa\_vt80213



2x25 mm <sup>2</sup> + 9x16 mm <sup>2</sup>	BFZ-TS-KL11	293629	1
2x25 mm <sup>2</sup> + 13x16 mm <sup>2</sup>	BFZ-TS-KL15	293630	1
2x25 mm <sup>2</sup> + 27x16 mm <sup>2</sup>	BFZ-TS-KL29	293631	1
2x25 mm <sup>2</sup> + 43x16 mm <sup>2</sup>	BFZ-TS-KL45	293632	1
2x25 mm <sup>2</sup> + 58x16 mm <sup>2</sup>	BFZ-TS-KL60	293633	1
2x25 mm <sup>2</sup> + 74x16 mm <sup>2</sup>	BFZ-TS-KL76	293634	1

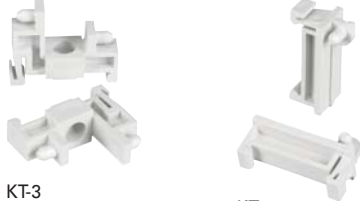
#### Terminal-set N/PE, BFZ-TS-N/PE-KL

- max. 63 A

2x (2x25 mm <sup>2</sup> + 27x16 mm <sup>2</sup> )	BFZ-TS-N/PE-KL29	113702	1
2x (2x25 mm <sup>2</sup> + 43x16 mm <sup>2</sup> )	BFZ-TS-N/PE-KL45	113703	1
2x (2x25 mm <sup>2</sup> + 58x16 mm <sup>2</sup> )	BFZ-TS-N/PE-KL60	113704	1
2x (2x25 mm <sup>2</sup> + 74x16 mm <sup>2</sup> )	BFZ-TS-N/PE-KL76	113705	1

#### Terminal supports, KT

VT01705, VT01805



KT-3

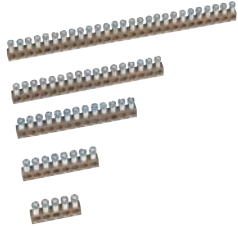
KT-5

horizontal	KT-3	275445	1
vertical	KT-5	275447	1

#### Terminal blocks, KL

- max. 63 A

VT1800



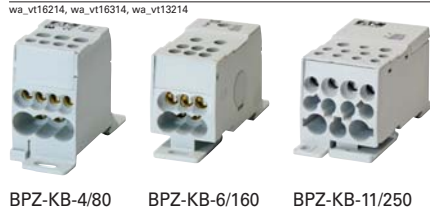
1x25 mm <sup>2</sup> + 3x16 mm <sup>2</sup>	KL-4	219723	1
1x25 mm <sup>2</sup> + 6x16 mm <sup>2</sup>	KL-7	219724	1
2x25 mm <sup>2</sup> + 9x16 mm <sup>2</sup>	KL-11	219725	1
2x25 mm <sup>2</sup> + 13x16 mm <sup>2</sup>	KL-15	219726	1
2x25 mm <sup>2</sup> + 23x16 mm <sup>2</sup>	KL-25	219727	1
2x25 mm <sup>2</sup> + 27x16 mm <sup>2</sup>	KL-29	275449	1
2x25 mm <sup>2</sup> + 43x16 mm <sup>2</sup>	KL-45	275450	1
2x25 mm <sup>2</sup> + 58x16 mm <sup>2</sup>	KL-60	275451	1
2x25 mm <sup>2</sup> + 74x16 mm <sup>2</sup>	KL-76	102066	1

## Additional Equipment / Spare Parts BF-O..., BF-U...

### Accessories

	Rated current / Output terminals	Type designation	Article No.	Pack (pcs.)
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#### Terminal blocks 1-pole, BPZ-KB



BPZ-KB-4/80    BPZ-KB-6/160    BPZ-KB-11/250

80 A / 6	BPZ-KB-4/80	289969	1
160 A / 6	BPZ-KB-6/160	289970	1
250 A / 11	BPZ-KB-11/250	289967	1

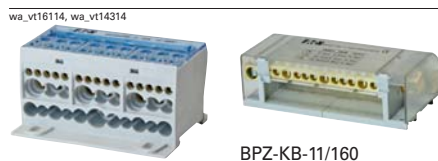
- Mounting on DIN-Rail or on Mounting Plate
- UL listed
- Save time on wiring
- Save 80% on space used
- Modular construction, 1- to 4-pole systems can be built with several blocks
- Protection class IP20
- Max. operating voltage 1000V AC , 1500V DC

### Technical Data

	BPZ-KB-4/80		BPZ-KB-6/160		BPZ-KB-11/250	
		torque (Nm)		torque (Nm)		torque (Nm)
Rated current	80 A		160 A		250 A	
Input terminals	1x2,5-16mm <sup>2</sup>	1,5-3	1x10-70mm <sup>2</sup>	5-6	1x35-120mm <sup>2</sup>	19-21
Output terminals	4x2,5-6mm <sup>2</sup>	0,8-1,5	6x2,5-16mm <sup>2</sup>	1,5-3	2x6-35mm <sup>2</sup>	3,5-7
	2x2,5-16mm <sup>2</sup>	1,5-3			5x1,5-16mm <sup>2</sup>	2-3
					4x1,5-10mm <sup>2</sup>	2-3
Connection	-		lateral parallel connection possible with Cu 15x5		-	
Abmessungen L x B x H (mm)	66 x 27 x 47		92 x 35 x 49		95,5 x 44,5 x 49	

	Rated current / Input terminals / Output terminals	Type designation	Article No.	Pack (pcs.)
--	--	------------------	-------------	-------------

#### Terminal blocks 4-pole, BPZ-KB



BPZ-KB-8/125

BPZ-KB-11/160

125 A / 1x(L1/L2/L3/N) / 7xL1/7xL2/7xL3/10xN	BPZ-KB-8/125	289968	1
160 A / 1x(L1/L2/L3/N) / 11xL1/11xL2/11xL3/11xN	BPZ-KB-11/160	102716	1






- Mounting on DIN-Rail or on Mounting Plate
- Max. operating voltage  
BPZ-KB-8/125: 690V AC , 690V DC  
BPZ-KB-11/160: 1000V AC , 1500V DC

### Technical Data

	BPZ-KB-8/125		BPZ-KB-11/160	
		torque (Nm)		torque (Nm)
Rated current	125 A		160 A	
Input terminals per pole	1x6-35mm <sup>2</sup>	1,5	1x10-35mm <sup>2</sup>	3,5-5
Output terminals per Phase (L1/L2/L3)	5x1,5-6mm <sup>2</sup>	0,8-1,5	3x6-25mm <sup>2</sup>	3,5-5
	2x4-16mm <sup>2</sup>		8x2,5-16mm <sup>2</sup>	
Output terminals N	4x1,5-10mm <sup>2</sup>	1,5	3x6-25mm <sup>2</sup>	3,5-5
	6x4-16mm <sup>2</sup>		8x2,5-16mm <sup>2</sup>	





## Additional Equipment / Spare Parts BF-O..., BF-U...

### Accessories

	Description	Type designation	Article No.	Pack (pcs.)	
	<b>Fastening Set for Cable Duct 60, BFZ-KKW-60</b>				
	• 1 pair additional angles for Cable Duct 60/60 inclusive 2 screws				
wa_vt19504		BFZ-KKW-60	285232	1	
	<b>Earthing set for door, BFZ-DES</b>				
VT19305		BFZ-DES	101665	1	
	<b>Blanking Strips 45-mm,, NBP</b>				
wa_vt07313		white, 1m long	NBP-1000-W	101666	1
		grey, 1m long	NBP-1000	275413	1
	<b>Mounting plate for Inscription Strip, LAB-BAR</b>				
wa_vt14413		for 24MU per row	LAB-BAR_24TE	107901	10
		for 33MU per row	LAB-BAR_33TE	107902	10
		1m	LAB-BAR_1000	107911	10
	<b>Enclosure leaves for the Inscription Strips, LAB-TAPE</b>				
	empty	LAB-TAPE_A4_BLANK	107952	10	
	<b>Circuit Diagram Bag, LAB-BAG</b>				
wa_vt14513		Size A4	LAB-BAG_A4	107913	1


## Additional Equipment/Spare Parts EWK-...


### Accessories

	Can be used for	Description	Type designation	Article No.	Pack (pcs.)
<b>Wall-fastening straps</b>					
 <p>wa_vt31413</p>	EWK-...	Sheet steel, for fixing the enclosures on the wall.	WFB-SET-EW	178507	1
	EWS-...	Set includes 4 straps.			
<b>Fixing material for wall-mounting</b>					
	EWK-...	Set consists of dowels and screws	WFM-SET-EW	178508	1
	EWS-...				
<b>Combined plug-type terminal IP2X</b>					
 <p>wa_vt32013</p>	EWK-...	1x PE comb. plug-type terminal 6x1.5-16 mm <sup>2</sup> + 21x 0.75-4 mm <sup>2</sup>	PE-EWK	178513	1
		1x N comb. plug-type terminal 6x1.5-16 mm <sup>2</sup> + 21x 0.75-4 mm <sup>2</sup>	N-EWK	178514	1
		1x N/N comb. plug-type terminal 6x1.5-16 mm <sup>2</sup> + 21x 0.75-4 mm <sup>2</sup>	NN-EWK	178515	1
		1x PE/N comb. plug-type terminal 6x1.5-16 mm <sup>2</sup> + 21x 0.75-4 mm <sup>2</sup>	PEN-EWK	178516	1
<b>Insulation adapter</b>					
	EWK-...	Plastic support for combined plug-type terminal. For positioning the terminal between the rows.	IRS-EWK	178517	1
<b>Enclosure-connecting set</b>					
 <p>wa_vt31913</p>	EWK-...	For connecting wall-mounted enclosures next to or on top of each other	SBS-SET-EWS	178509	1
	EWS-...				
<b>Cable insertion flange with adapter</b>					
 <p>wa_vt31513</p>	EWK-...	22x M25	LP20-EW	178485	1
	EWS-...	14x M25/32	LP21-EW	178486	1
	EWP-...	6x M32/40/50	LP22-EW	178487	1
		2x M25/32, 1x M32/40, 2x M40/50/60	LP23-EW	178488	1
		Blind	LP24-EW	178489	1
		Sealing membrane	LP25-EW	178490	1
<b>Cable insertion flange with cable grommets KT3/KT4</b>					
	EWK-...	2x (14-54 mm) Outer diameter of cable	LP-KT3-EW	178497	1
	EWS-...				
	EWP-...	1x (14-54 mm) Outer diameter of cable	LP-KT4-EW	178498	1


## Additional Equipment/Spare Parts EWK-...


### Accessories

	Can be used for	Description	Type designation	Article No.	Pack (pcs.)
<b>Cable strain relief rail</b>					
	EWK-...	For fastening the cables with cable tie wraps	KS-EWK	178501	1

	Can be used for	Description	Type designation	Article No.	Pack (pcs.)
<b>Cable insertion flange</b>					
<ul style="list-style-type: none"> <li>• To replace the factory-mounted insertion flange</li> <li>• With pre-punched holes for metrical or PG insertions</li> </ul>					
	EWK-...	5x M20, 12x M16	LP2-1-EW	178491	1
	EWS-...	5x M20, 2x M50	LP2-2-EW	178492	1
	EWP-...	1x PG21-48, 2x PG16-29, 4x PG13.5	LP3-EW	178493	1
		17x PG13.5	LP4-EW	178494	1
		Blind	LP5-EW	178495	1
		Elastic insertions	LP6-EW	178496	1








	Can be used for	Description	Type designation	Article No.	Pack (pcs.)
<b>Sealing plugs</b>					
	EWK-... EWS-... EWP-...	For closing holes made by mistake	SSCBF-EW	178499	1

	Can be used for	Description	Type designation	Article No.	Pack (pcs.)
<b>Cable interconnect duct</b>					
<ul style="list-style-type: none"> <li>• For interconnecting and covering wires</li> <li>• To be fixed at the top of the enclosure</li> <li>• RAL 9016</li> </ul>					
	EWK-...	Width 300	RK03-EW	178502	1
	EWS-...	Width 550	RK05-EW	178503	1
		Width 800	RK08-EW	178504	1
		Width 1050	RK10-EW	178505	1

	Can be used for	Enclosure width [mm]	Enclosure height [mm]	Type designation	Article No.	Pack (pcs.)
<b>Transparent door</b>						
<ul style="list-style-type: none"> <li>• As a modification set,</li> <li>• Without closure, without hinges</li> </ul>						
	EWK-...	300	650	TT0306-EW	178520	1
	EWS-...	800				
		300	800	TT0308-EW	178521	1
		800				
		300	950	TT0309-EW	178522	1
		800				
		550	500	TT0505-EW	178523	1
		1050				
		1300				
		550	650	TT0506-EW	178524	1
		1050				
		1300				
		550	800	TT0508-EW	178525	1
		1050				
		1300				
		550	950	TT0509-EW	178526	1
		1050				
		1300				

## Additional Equipment/Spare Parts EWK-...

### Accessories

	Can be used for	Description	Type designation	Article No.	Pack (pcs.)
<b>Door locks</b>					
	EWK-... EWS-...	Clip-down handle for Profile semi-cylinder.	SHG-EW	178527	1
	EWK-... EWS-...	T-handle	K-EW	178528	1
	EWK-... EWS-...	Two-way key bit 3 mm	TVD3-EW	178529	1
	EWK-... EWS-...	Standard rotary bolt, Plastic, white	GS-EW	178530	1
<b>Spare parts</b>					
	EWK-...	Quick-acting closure, Plastic cover EWK	SCREW-EWK	178531	1
	EWK-...	Fixing tower, Plastic cover EWK	TOWER-EWK	178510	1
	EWK-... EWS-...	Spare hinges, 1 pair	HINGE-EWKS	178518	1

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Printed in Austria (01/15)  
Publication number CA015004EN



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Graphics: SRA  
Print: