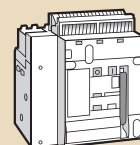


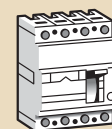
Protection and switching

ACBs

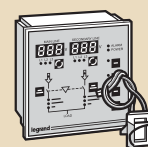


P. 2
DMX³
air circuit
breakers

MCCBs

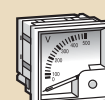


P. 18
DPX 125



P. 29
DPX
auxiliaries

Energy metering



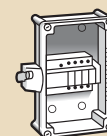
P. 46
Electrical
energy metering
on door

Isolating switches: - Vistop - DPX-IS



P. 49
DX-IS Isolating
switches

Proximity switches, fuse isolating switches, cartridge fuses



P. 57
Proximity
switches
63A to 160A



P. 60
Domestic
cartridge fuses

DC circuit protection



P. 67
DC fuses,
isolating
switches

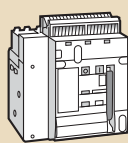
NEW



**DMX³
ACBs
(P. 2)**



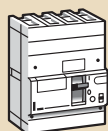
P. 3
DMX³
electronic
protection units



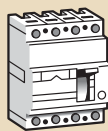
P. 3
DMX³-I
trip-free
switches



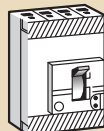
P. 4
DMX³
auxiliaries
and equipment



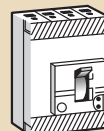
P. 19
DPX 160



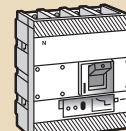
P. 20
DPX 250 ER



P. 22
DPX 250
fixed version



P. 24
DPX 630
fixed version



P. 27
DPX 1250
DPX 1600 fixed
and draw-out
version



P. 30
Residual
current
relay coils



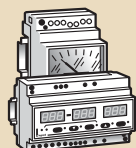
P. 31
Dimensions



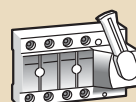
P. 37
Tripping curves



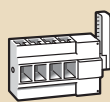
P. 38
Selectivity tables



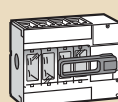
P. 48
Electrical
energy metering
on Din rail



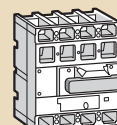
P. 50
Vistop 63A
to 160A



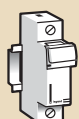
P. 52
DPX-IS 250
160A to 250A



P. 54
DPX-IS 630
400A to 630A



P. 56
DPX-IS 1600
800A to 1600A



P. 59
SP fuse
carriers



P. 61
HRC
cartridge fuses



P. 62
HRC blade
type cartridge
fuses



P. 64
Technical
characteristics

DMX³ 2500 and 4000

Air circuit breakers from 800 to 4000 A

NEW



286 56 + 288 02



286 74 + 288 02



287 56 + 288 02



Dimensions (p. 6 to 9)
Electrical characteristics (p. 10 to 13)

Air circuit breakers equipped with:

- electronic protection unit (to be ordered together for factory assembly). Please ask for DMX³ order form (mandatory).
- auxiliary contacts

Pack	Cat.No.	Fixed version
		Supplied with rear terminals for horizontal connection
		DMX³ - N 2500
		Breaking capacity Icu 50 kA (415 V~)
	Frame 1	In (A)
	3P	4P
1	286 21	286 31 800
1	286 22	286 32 1000
1	286 23	286 33 1250
1	286 24	286 34 1600
1	286 25	286 35 2000
1	286 26	286 36 2500
		DMX³ - H 2500
		Breaking capacity Icu 65 kA (415 V~)
	Frame 1	In (A)
	3P	4P
1	286 41	286 51 800
1	286 42	286 52 1000
1	286 43	286 53 1250
1	286 44	286 54 1600
1	286 45	286 55 2000
1	286 46	286 56 2500
		DMX³ - L 2500
		Breaking capacity Icu 100 kA (415 V~)
	Frame 2	In (A)
	3P	4P
1	286 61	286 71 800
1	286 62	286 72 1000
1	286 63	286 73 1250
1	286 64	286 74 1600
1	286 65	286 75 2000
1	286 66	286 76 2500
		DMX³ - N 4000
		Breaking capacity Icu 50 kA (415 V~)
	Frame 2	In (A)
	3P	4P
1	286 27	286 37 3200
1	286 28	286 38 4000
		DMX³ - H 4000
		Breaking capacity Icu 65 kA (415 V~)
	Frame 2	In (A)
	3P	4P
1	286 47	286 57 3200
1	286 48	286 58 4000
		DMX³ - L 4000
		Breaking capacity Icu 100 kA (415 V~)
	Frame 2	In (A)
	3P	4P
1	286 67	286 77 3200
1	286 68	286 78 4000

Pack	Cat.No.	Draw-out version
		Supplied with a base equipped with flat rear terminals and lockable safety shutters
		DMX³ - N 2500
		Breaking capacity Icu 50 kA (415 V~)
	Frame 1	In (A)
	3P	4P
1	287 21	287 31 800
1	287 22	287 32 1000
1	287 23	287 33 1250
1	287 24	287 34 1600
1	287 25	287 35 2000
1	287 26	287 36 2500
		DMX³ - H 2500
		Breaking capacity Icu 65 kA (415 V~)
	Frame 1	In (A)
	3P	4P
1	287 41	287 51 800
1	287 42	287 52 1000
1	287 43	287 53 1250
1	287 44	287 54 1600
1	287 45	287 55 2000
1	287 46	287 56 2500
		DMX³ - L 2500
		Breaking capacity Icu 100 kA (415 V~)
	Frame 2	In (A)
	3P	4P
1	287 61	287 71 800
1	287 62	287 72 1000
1	287 63	287 73 1250
1	287 64	287 74 1600
1	287 65	287 75 2000
1	287 66	287 76 2500
		DMX³ - N 4000
		Breaking capacity Icu 50 kA (415 V~)
	Frame 2	In (A)
	3P	4P
1	287 27	287 37 3200
1	287 28	287 38 4000
		DMX³ - H 4000
		Breaking capacity Icu 65 kA (415 V~)
	Frame 2	In (A)
	3P	4P
1	287 47	287 57 3200
1	287 48	287 58 4000
		DMX³ - L 4000
		Breaking capacity Icu 100 kA (415 V~)
	Frame 2	In (A)
	3P	4P
1	287 67	287 77 3200
1	287 68	287 78 4000

DMX³ 2500 and 4000

Electronic protection units

NEW



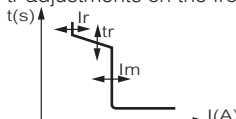
288 02



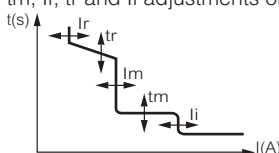
Settings and curves (p. 10 to 11)

DMX³ 2500 and 4000 circuit breakers can be equipped with MP4 electronic protection units (to be ordered together for factory assembly) enabling very precise adjustments of the protection conditions, while maintaining total discrimination with downstream devices
Integrated LCD screen for displaying: current values, fault adjustment and log
MP4 protection units are equipped with batteries for powering in case of mains fault or when the breaker is open or not connected

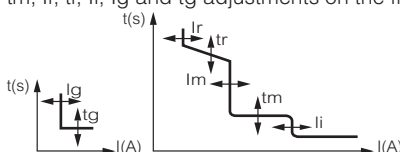
Pack	Cat.Nos	Electronic protection unit MP4 LI
1	288 00	Electronic protection unit with LCD screen with I_m , I_r , t_r adjustments on the front



Pack	Cat.Nos	Electronic protection units MP4 LSI
1	288 01	Electronic protection unit with LCD screen with I_m , t_m , I_r , t_r and I_i adjustments on the front



Pack	Cat.Nos	Electronic protection unit MP4 LSIg
1	288 02	Electronic protection unit with LCD screen with I_m , t_m , I_r , t_r , I_i , I_g and t_g adjustments on the front



Pack	Cat.Nos	Accessories for electronic protection units
1	288 05 ⁽¹⁾	Communication option for DMX ³ electronic protection units
1	288 06	12 V DC external power supply for DMX ³ electronic protection units
1	288 07 ⁽¹⁾	Earth leakage module for DMX ³ electronic protection units (needs an external coil Cat.No 288 11)
1	288 11 ⁽¹⁾	External coil for electronic earth leakage module Cat.No 288 07
1	288 12 ⁽¹⁾	Module programmable output

(1) Optional accessories, to be ordered when ordering electronic protection unit and DMX³ air circuit breakers for factory assembly

DMX³-I

Trip free switches from 1250 to 4000 A

NEW



286 96



287 96



Dimensions (p. 6 to 9)
Technical characteristics (p. 10 to 13)

Trip free switches equipped with:
- rear terminals
- auxiliary contacts

Pack	Cat.Nos	Fixed version
	Frame 1	DMX³-I 2500
	3P	In (A)
1	286 83	1250
1	286 84	1600
1	286 85	2000
1	286 86	2500
	4P	
	Frame 2	DMX³-I 4000
	3P	In (A)
1	286 87	3200
1	286 88	4000
	4P	

Pack	Cat.Nos	Draw-out version
	Frame 1	Supplied with a base equipped with flat rear terminals and lockable safety shutters
	3P	DMX³-I 2500
	4P	In (A)
1	287 83	1250
1	287 84	1600
1	287 85	2000
1	287 86	2500
	Frame 2	DMX³-I 4000
	3P	In (A)
1	287 87	3200
1	287 88	4000
	4P	

Some items sold separately

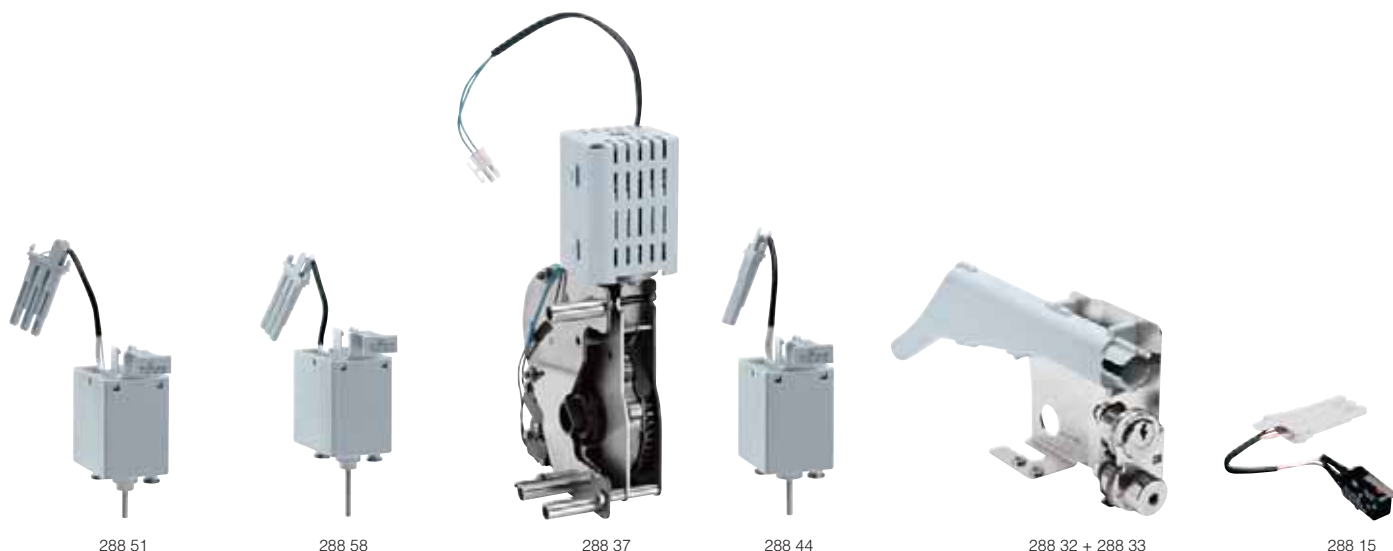
For pack quantity, please refer to numerical index pages

For trade price, please see your local HPM Legrand representative for the current price list

DMX³ 2500 and 4000

Auxiliaries and accessories

NEW



Pack	Cat. No.	Control and signalling auxiliaries
		Shunt trip When energised the circuit breaker will be tripped
1	288 48	24 V~/=
1	288 49	48 V~/=
1	288 50	110 V~/=
1	288 51	230 V~/=
1	288 52	415 V~
		Undervoltage releases When the coil is de-energised, the circuit breaker will be tripped
1	288 55	24 V~/=
1	288 56	48 V~/=
1	288 57	110 V~/=
1	288 58	230 V~/=
1	288 59	415 V~
		Delayed undervoltage releases
1	288 62	110 V~/=
1	288 63	230 V~/=
		Motor operators To motorise a DMX, it is necessary to attach, to the motor operators, a release coil (undervoltage or trip on energising) and a closing coil The motor operator is delivered with a spring charge contact
1	288 34	24 V~/=
1	288 35	48 V~/=
1	288 36	110 V~/=
1	288 37	230 V~/=
1	288 38	415 V~
		Closing coils Enables remote closing of the circuit breaker if the closing spring is charged
1	288 41	24 V~/=
1	288 42	48 V~/=
1	288 43	110 V~/=
1	288 44	230 V~/=
1	288 45	415 V~
		Signalling contact for auxiliaries
1	288 16	Signalling contact for shunt trips, undervoltage releases and closing coils

Pack	Cat. No.	Locking
1	288 30	Key locking in "open" position Profalux lock (key included) - to be fitted on the frame Cat.No 288 28
1	288 31	Ronis lock (key included) - to be fitted on the frame Cat.No 288 28
1	288 28	2 hole support frame for Ronis or Profalux locks Cat. No. 288 30/31
		Key locking in the draw-out position Mounting of the lock on the base 3 positions : inserted/test/draw-out
1	288 32	Profalux lock (key included)
1	288 33	Ronis lock (key included)
		Door locking Prevents opening of the door with the circuit breaker closed Left-hand and right-hand side mounting
1	288 20	
		Padlocks in "open" position
1	288 21	Padlocking system for ACB (padlock not supplied)
1	288 26	Padlocking system for shutters (padlock not supplied)
		Equipment for conversion of a fixed device into draw-out device
		Bases for draw-out device
1	3P 289 02	4P 289 03
1	289 04	289 05
		For DMX ³ /DMX ³ -I frame 1
		For DMX ³ /DMX ³ -I frame 2
		Transformation kit for draw-out version
1	289 09	289 10
1	289 11	289 12
		For DMX ³ /DMX ³ -I frame 1
		For DMX ³ /DMX ³ -I frame 2
		Accessories
1	288 25	Rating mis-insertion device Prevents the insertion of a draw-out circuit breaker in an incompatible base
1	288 23	Operations counter Counts total number of operation cycles of the device
1	288 14	Contact "ready to close" with charged springs
1	288 15	Set of additional signalling contacts
1	288 22	Door sealing IP 40
1	288 79	Lifting plate

DMX³ 2500 and 4000 NEW

Equipment for ATS (Auto Transfer Switch)



261 93



288 64

Technical characteristics (p. 9)

DMX³ 2500 and 4000 NEW

Rear terminals



288 84



288 82



288 96



288 94



288 91



xxx xx

Dimensions (p. 6 - 9)

Pack	Cat. No.	Automation control unit
1	261 93	For setting the conditions for supply inversion, generator on/off, status acquisition for DMX and DPX circuit-breakers, open/closed
1	261 94	Power supply: 230 V~ and 12-24-48 V=
		Connection by plug-in terminals
		Standard unit
		Communicating unit, enabling data transmission (RS 485 port)

Pack	Cat. No.	Equipment for ATS
1	288 64	The mechanical interlock is set up using cables and can interlock 2 or 3 devices, which may be different type in a vertical or horizontal configuration
1	288 65	The interlock unit is mounted on the right-hand side of the device
		Supplied complete with cable set (cable length to be specified according to every configuration)
		Interlock for DMX ³ frame 1
		Interlock for DMX ³ frame 2

Pack	Cat. No.	Cable interlock
1	289 20	Type 1 (2600 mm)
1	289 21	Type 2 (3000 mm)
1	289 22	Type 3 (3600 mm)
1	289 23	Type 4 (4000 mm)
1	289 24	Type 5 (4600 mm)
1	289 25	Type 6 (5600 mm)

Pack	Cat. No.		Rear terminals
	3P	4P	
1	288 84	288 85	For DMX³ frame 1 fixed version For flat connection with bars To be fixed onto horizontal rear terminals of the circuit breaker
1	288 82	288 83	For DMX³ frame 1 draw-out version For vertical connection with bars Those terminals are used in order to transform a flat connection into a vertical one To be fixed onto Cat.No 288 84/85 according to the number of poles
1	288 96	288 97	For DMX³ frame 2 fixed version For vertical or horizontal connection with bars To be fixed onto plate rear terminals of the circuit breaker
1	288 92	288 93	For DMX³ frame 2 draw-out version For flat connection with bars To be fixed onto horizontal rear terminals of the circuit breaker
1	288 94	288 95	For DMX³ frame 2 draw-out version For vertical or horizontal connection with bars To be fixed onto plate rear terminals of the circuit breaker

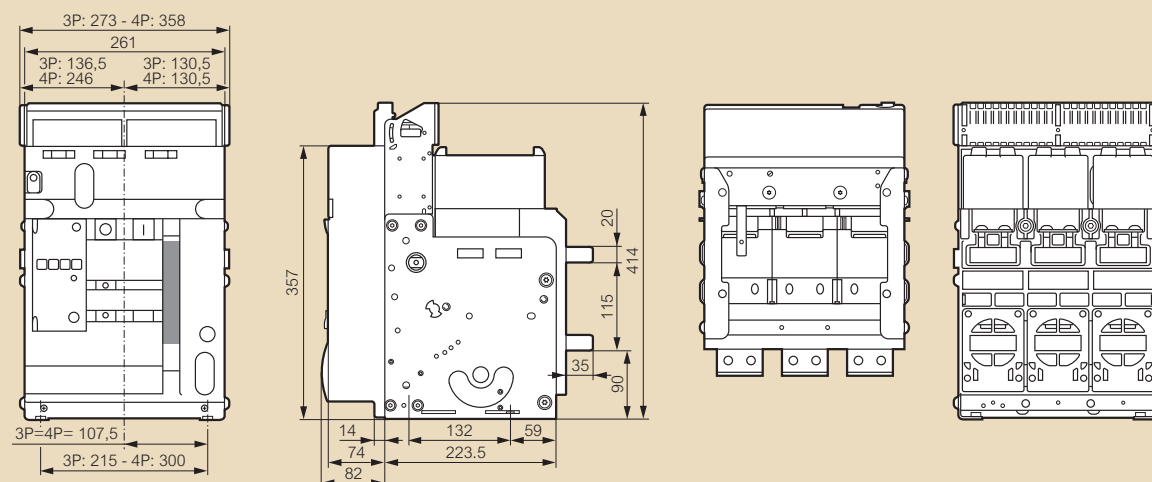
			Spreaders for DMX ³ frame 1 fixed version
			To be fixed onto horizontal rear terminals of the circuit breaker
	3P	4P	
1	288 86	288 87	For flat connection with bars
1	288 88	288 89	For vertical connection with bars
1	288 90	288 91	For horizontal connection with bars



For details on cable interlock and ATS (Auto Transfer Switch), please consult us

DMX³ 2500 and DMX³-I 2500 - frame 1 **Dimensions**

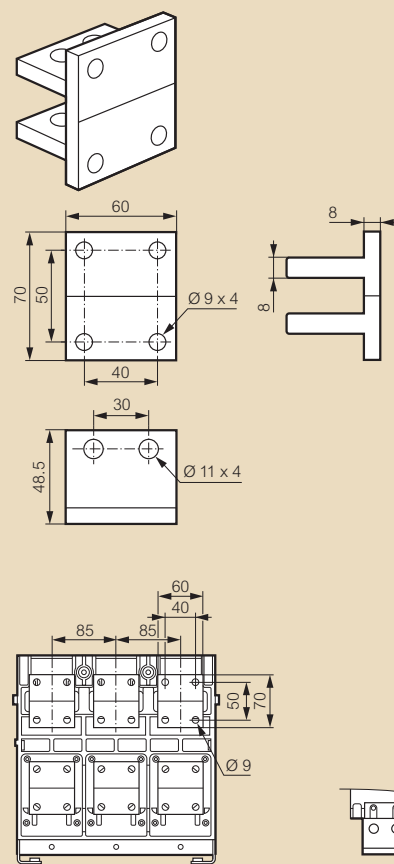
■ Fixed version - frame 1



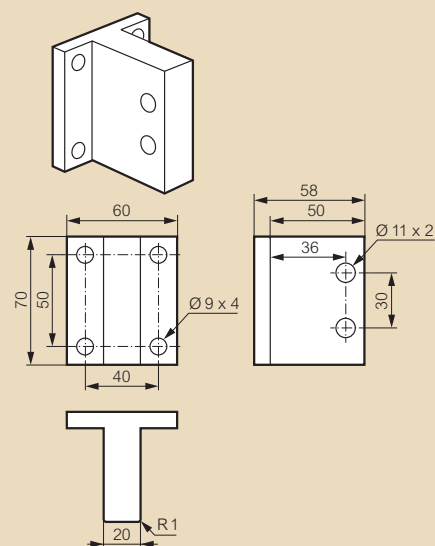
Rear terminals fixed version 800 - 2500 A



Rear terminals for flat connection with bars Cat. Nos 288 84/85



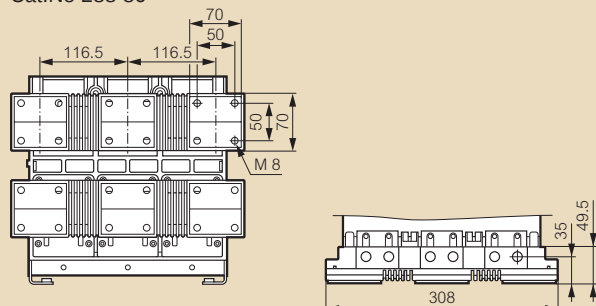
Rear terminals for vertical connection with bars Cat. Nos 288 82/83



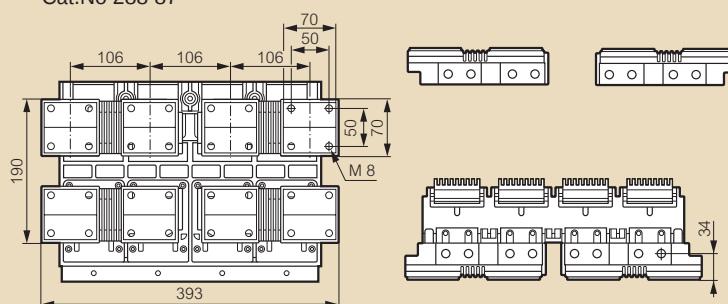
■ Fixed version - frame 1 (continued)

Spreaders for flat connection with bars

Cat.No 288 86

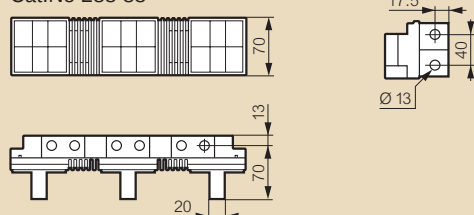


Cat.No 288 87

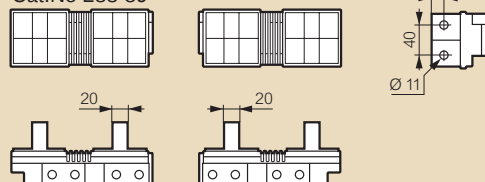


Spreaders for vertical connection with bars

Cat.No 288 88

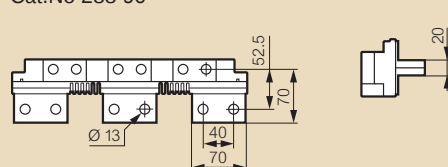


Cat.No 288 89

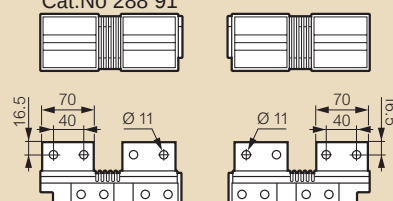


Spreaders for horizontal connection with bars

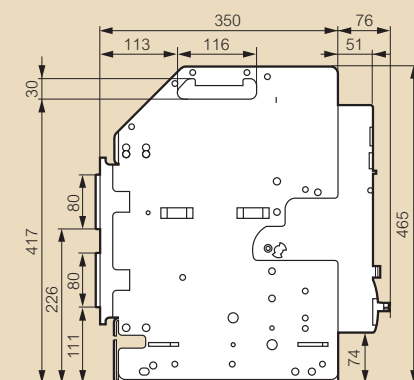
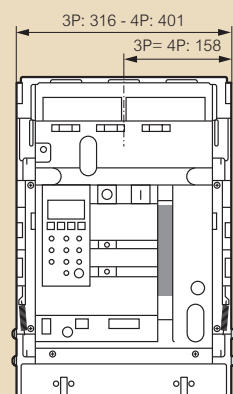
Cat.No 288 90



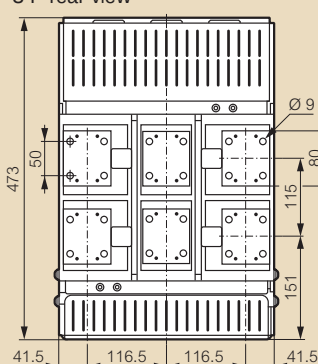
Cat.No 288 91



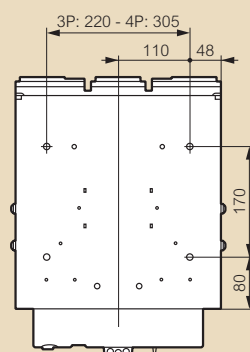
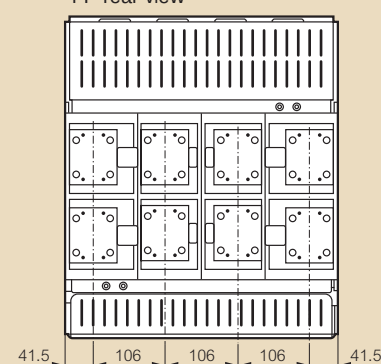
■ Draw-out version - frame 1



3 P rear view

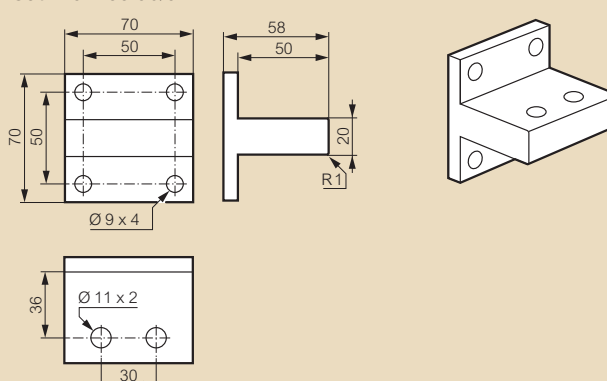


4 P rear view



Rear terminals for vertical or horizontal connection with bars

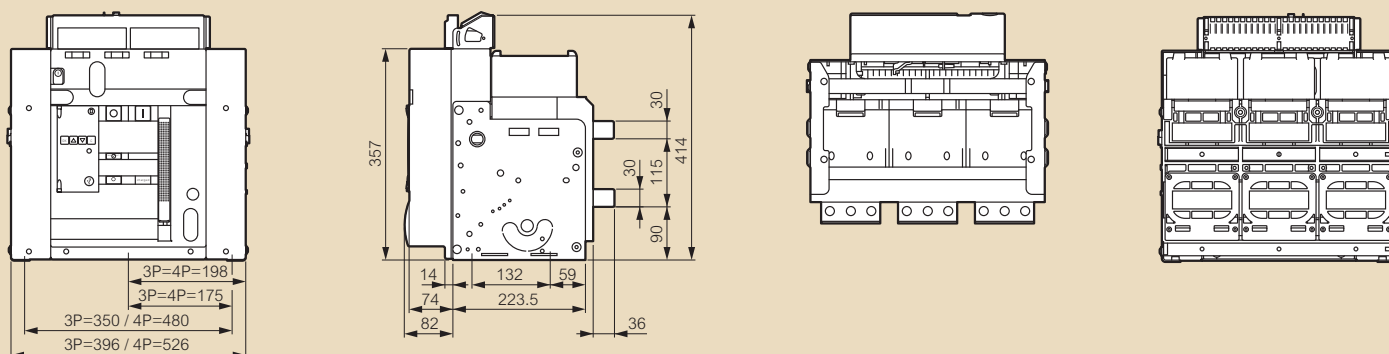
Cat. No. 288 96/97



DMX³ 2500, DMX³-I 2500, DMX³ 4000 and DMX³-I 4000 - frame 2

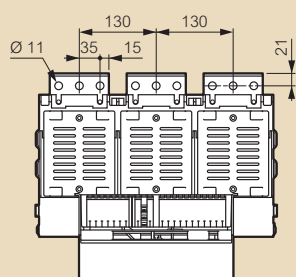
Dimensions

■ Fixed version - frame 2

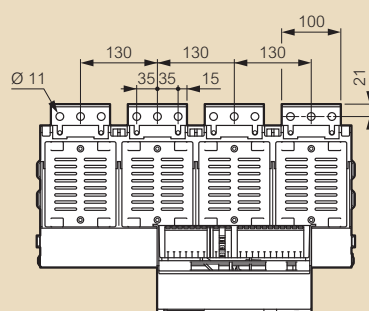


Rear terminals fixed version 3200 - 4000 A

3P version

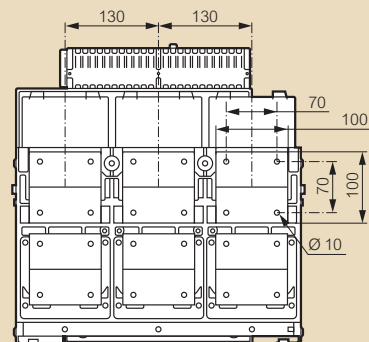


4P version

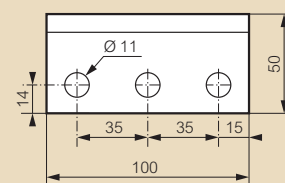
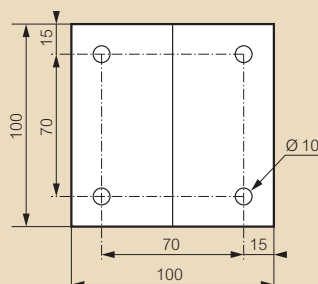


Rear terminals for flat connection with bars

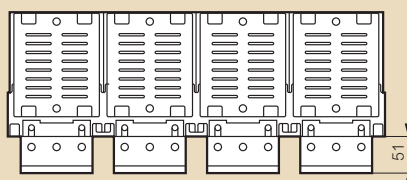
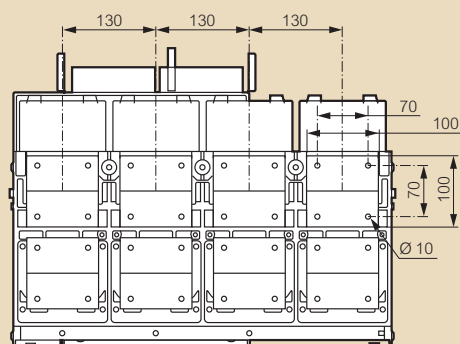
Cat. No 288 92



Cat. Nos 288 92/93



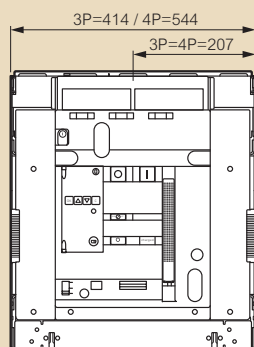
Cat. No 288 93



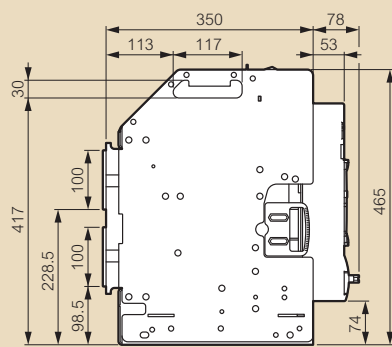
DMX³ 2500 and 4000

Automation control units for ATS (Auto Transfer Switch)

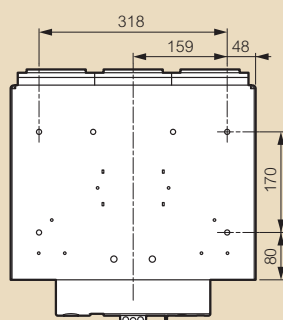
■ Draw-out version - frame 2



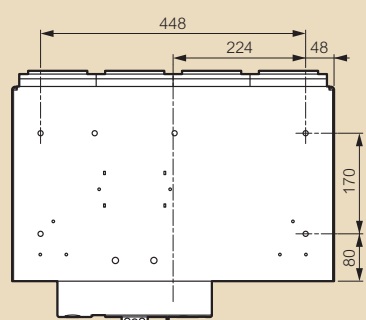
3 P top view



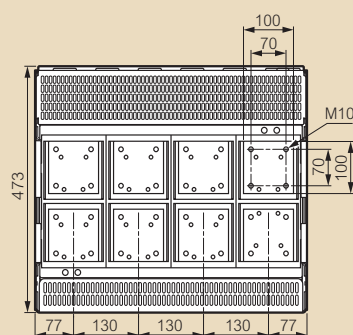
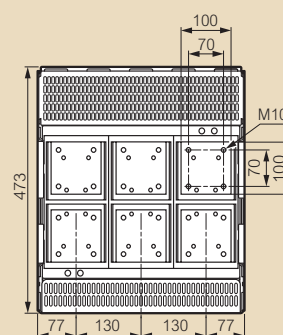
4 P top view



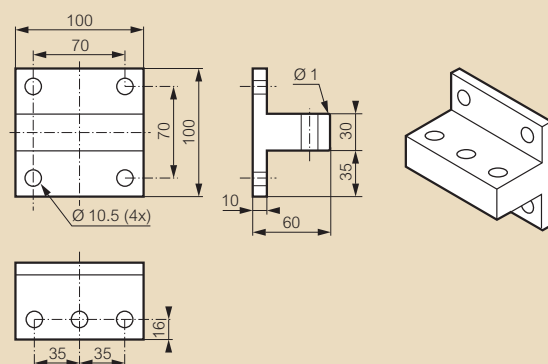
3 P rear view



4 P rear view



Rear terminals for vertical or horizontal connection with bars
Cat. No. 288 94/95



■ Functions

Standard unit Cat.No 261 93

Used to adjust and manage the source inversion operating conditions (DMX³):

- Remote control (opening/closing) of MCBs
- Microprocessor output from unit (positive safety)
- Programmable I/O
- Voltage reading: 3-phase
 - phase-neutral
 - phase-phase
- Control (on/off) of generator set
- Indication of the state of the MCBs (open/closed/tripped)
- Source inversion blocked in the event of:
 - Tripping of 1 or 2 devices
 - If a draw-out ACB is not inserted in its base, as the open/close command of the unit is inoperative

Communicating unit Cat.No 261 94

All the standard functions, plus:

- Maximum voltage reading
- Reading of phase rotation direction
- Frequency reading
- Communication: data transmission via the RS 485 port (Modbus protocol)

■ Technical characteristics

Power supply: 187 to 264 V
9 to 65 V_{DC}

Frequency: 45 to 65 Hz

Un: 80 to 690 V

Control relay (1 and 4): 1 NO - 12 A - 250 V
1 NO - 5 A - 250 V
1 NO/NC - 5 A - 250 V

Cable cross-section: 0.2 to 2.5 mm²

Dimensions (width x height x depth): 144 x 144 x 90 mm

Protection: IP 20 at the rear

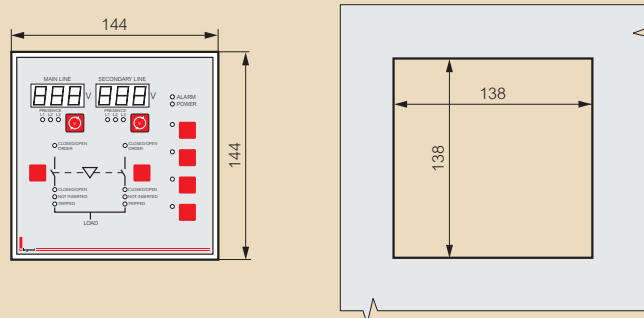
IP 41 at the front

IP 54 at the front with protective screen

Operating temperature: - 20 °C to + 60 °C

	Operating ranges
Main/secondary minimum voltage range	70-98 % Un
Main/secondary voltage absence range	60-85 % Un
Main/secondary minimum voltage delay	0.1-900 s
Main/secondary voltage absence delay	0.1-30 s
Generator operating delay	0-900 s
Main to secondary switching delay	0.1-90 s
Main line presence delay	1-3600 s
Secondary to main switching delay	0.1-90 s
Generator set stopping delay	1-3600 s

Dimensions and panel board faceplate cut-out



Some items sold separately

For pack quantity, please refer to numerical index pages

For pack quantity, please refer to numerical index pages
For trade price, please see your local HPM Legrand representative for the current price list

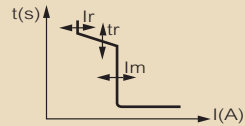
DMX³ 2500 and DMX³ 4000

Electronic protection units

■ Settings of the electronic protection units

MP4 LI

I_r , I_m , t_r adjustment on front panel



• Long time delay protection against overloads

I_r from 0.4 to 1 x I_n (6 + 6 steps) on two selectors (0.4 ÷ 0.9, by steps of 0.1 and 0.0 ÷ 0.1, by steps of 0.02)

• Long delay protection operation time

t_r - at 6 x I_r (4 + 4 steps)
 t_r = 5-10-20-30 s (MEM ON) 30-20-10-5 s (MEM OFF)

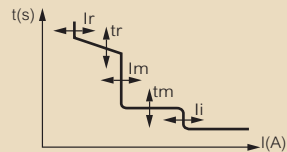
• Short time delay protection against short circuits

I_m from 1.5 to 10 I_r (9 steps) I_m = 1.5-2-2.5-3-4-5-6-8-10 x I_r

• Neutral protection: IN = I-II-III-IV x I_r (0-50-100-100 %)

MP4 LSI

I_r , t_r , I_m , t_m , I_i adjustment on front panel



• Long time delay protection against overloads

I_r from 0.4 to 1 x I_n (6 + 6 steps) on two selectors (0.4 ÷ 0.9, by steps of 0.1 and 0.0 ÷ 0.1, by steps of 0.02)

• Long delay protection operation time

t_r - at 6 x I_r (4 + 4 steps) t_r = 5-10-20-30 s (MEM ON) 30-20-10-5 s (MEM OFF)

• Short time delay protection against short circuits

I_m from 1.5 to 10 x I_r (9 steps) I_m = 1.5-2-2.5-3-4-5-6-8-10 x I_r

• Short time delay protection operation time

t_m from 0 to 0.3 s (4 + 4 steps) t_m = 0-0.1-0.2-0.3 s (t =cost), 0.3-0.2-0.1-0.01 s (I_2t =cost)

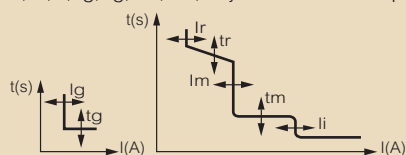
• Instantaneous protection against very high short circuits

I_i from 2 to I_{cw} x I_n (9 steps) I_i = 2-3-4-6-8-10-12-15- I_{cw} x I_n

• Neutral protection: IN = I-II-III-IV x I_r (0-50-100-100 %)

MP4 LSIg

I_r , t_r , I_i , I_g , t_g , I_m , t_m , adjustment on front panel



• Long time delay protection against overloads

I_r from 0.4 to 1 x I_n (6 + 6 steps) on two selectors (0.4 ÷ 0.9, by steps of 0.1 and 0.0 ÷ 0.1, by steps of 0.02)

• Long delay protection operation time

t_r - at 6 x I_r (4 + 4 steps) t_r = 5-10-20-30 s (MEM ON) 30-20-10-5 s (MEM OFF)

• Short time delay protection against short circuits

I_m from 1.5 to 10 x I_r (9 steps) I_m = 1.5-2-2.5-3-4-5-6-8-10 x I_r

• Short time delay protection operation time

t_m from 0 to 0.3 s (4 + 4 steps) t_m = 0-0.1-0.2-0.3 s (t =constant), 0.3-0.2-0.01 s (I_2t =constant)

• Instantaneous protection against very high short circuits

I_i from 2 to I_{cw} x I_n (9 steps) I_i = 2-3-4-6-8-10-12-15- I_{cw} x I_n

• Earth fault current

I_g from 0.2 to 1 x I_n (9 steps)

• Time delay on earth fault tripping

t_g from 0.1 to 1 x I_n (4 steps)

• Neutral protection: IN = I-II-III-IV x I_r (0-50-100-100 %)

■ Selectivity in three-phase network 400 V~

DMX³/DPX

Downstream \ Upstream	DMX ³ 2500						DMX ³ 4000	
	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
DPX 125 ⁽¹⁾	T	T	T	T	T	T	T	T
DPX 160 ⁽¹⁾	T	T	T	T	T	T	T	T
DPX 250 ER ⁽¹⁾	T	T	T	T	T	T	T	T
DPX 250 ⁽¹⁾ TM and elec.	T	T	T	T	T	T	T	T
DPX 630 ⁽¹⁾ TM and elec.	T	T	T	T	T	T	T	T
DPX 1600 ⁽¹⁾ thermal magnetic	630 A	T	T	T	T	T	T	T
	800 A		T	T	T	T	T	T
	1000 A			T	T	T	T	T
	1250 A				T	T	T	T
DPX 1600 ⁽¹⁾ electronic	630 A			T	T	T	T	T
	800 A			T	T	T	T	T
	1000 A				T	T	T	T
	1250 A				T	T	T	T
	1600 A					T	T	T

(1) All breaking capacity

T: total selectivity, up to downstream circuit breaker breaking capacity according to IEC 60947-2

DMX³/DMX³

Downstream \ Upstream	DMX ³							
	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
DMX ³	800 A		T	T	T	T	T	T
	1000 A			T	T	T	T	T
	1250 A				T	T	T	T
	1600 A					T	T	T
	2000 A						T	T
	2500 A							T
	3200 A							T
	4000 A							

T: total selectivity, up to downstream circuit breaker breaking capacity according to IEC 60947-2

I_{cu} of downstream circuit breaker I_{cu} of upstream circuit breaker

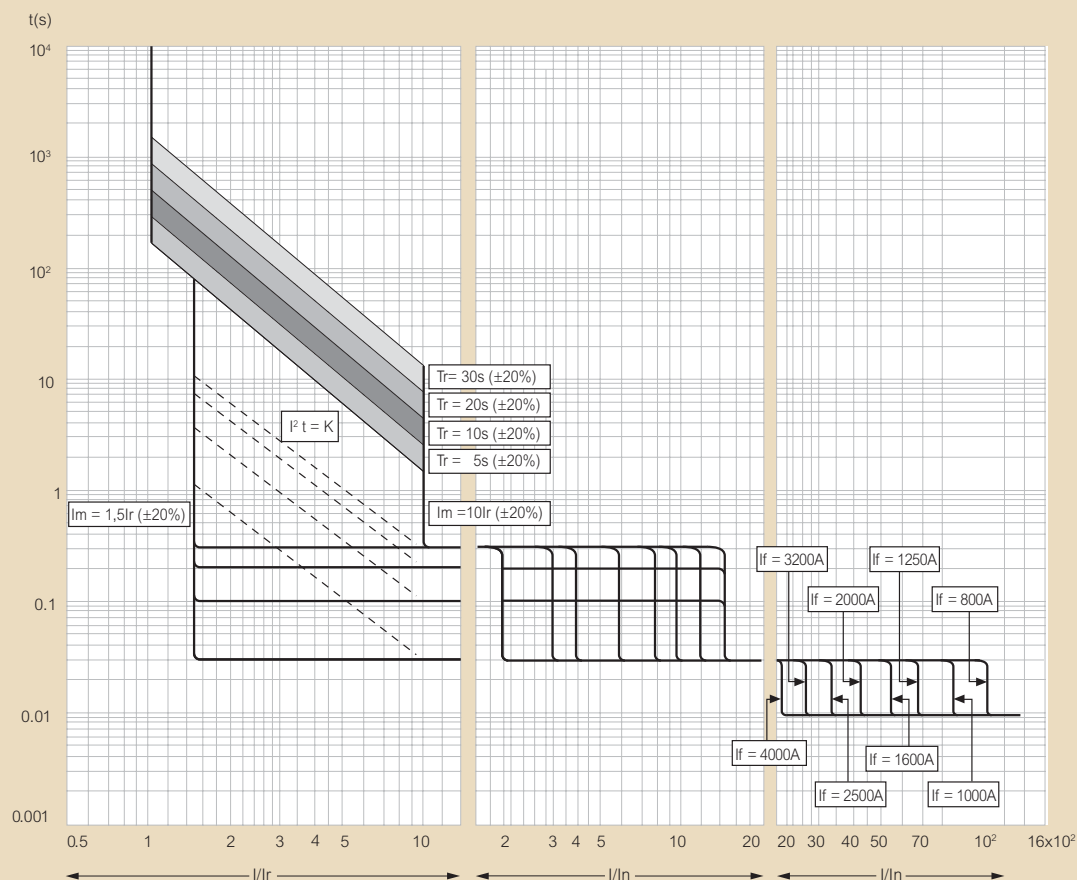
DMX³/DX

	DMX ³							
	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
DX	T	T	T	T	T	T	T	T
DX-H	T	T	T	T	T	T	T	T
DX-D	T	T	T	T	T	T	T	T
DX-L	T	T	T	T	T	T	T	T

T: total selectivity, up to downstream circuit breaker breaking capacity according to IEC 60947-2

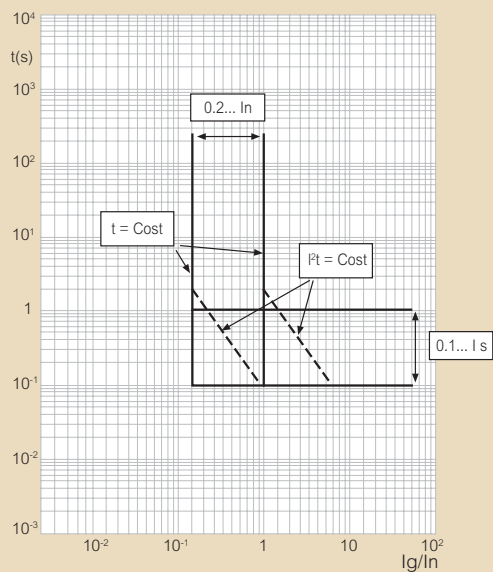
DMX³ 2500 and 4000

■ Tripping curves for MP4 protection units

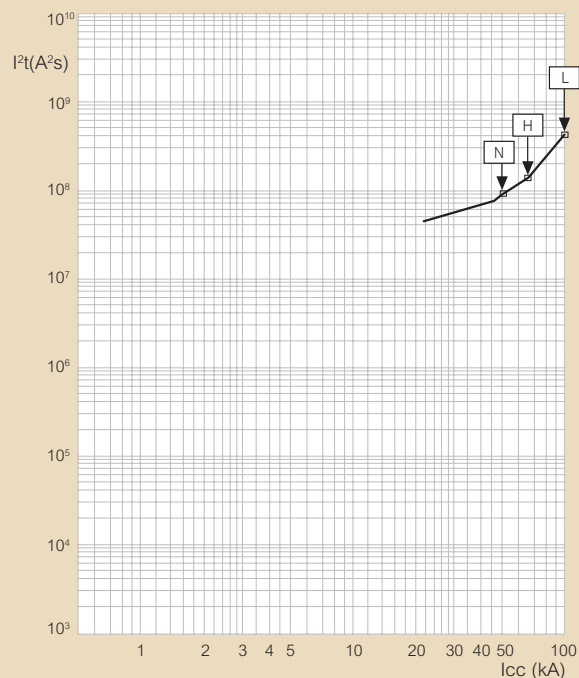


I_r = long time setting current
 T_r = long time delay
 I_m = short time setting current
 T_m = short time delay
 I_f = instantaneous intervention current

■ Ground fault tripping curve for MP4 LSIG protection unit



■ Pass-through specific energy characteristic



DMX³ 2500 and 4000

Technical characteristics

■ Technical characteristics

DMX³ 2500

DMX ³ according to IEC 60947-2		DMX ³ 2500																	
		800			1000			1250			1600			2000			2500		
		N	H	L	N	H	L	N	H	L	N	H	L	N	H	L	N	H	L
Number of poles		3P - 4P			3P - 4P			3P - 4P			3P - 4P			3P - 4P			3P - 4P		
Rating In (A)		800			1000			1250			1600			2000			2500		
Rated insulation voltage Ui (V)		1000			1000			1000			1000			1000			1000		
Rated impulse withstand voltage Uimp (kV)		12			12			12			12			12			12		
Rated operational voltage (50/60Hz) Ue (V)		690			690			690			690			690			690		
Frame		1		2	1		2	1		2	1		2	1		2	1		2
Ultimate breaking capacity Icu (kA)	230 V~	50	65	100	50	65	100	50	65	100	50	65	100	50	65	100	50	65	100
	415 V~	50	65	100	50	65	100	50	65	100	50	65	100	50	65	100	50	65	100
	500 V~	50	65	100	50	65	100	50	65	100	50	65	100	50	65	100	50	65	100
	600 V~	50	60	75	50	60	75	50	60	75	50	60	75	50	60	75	50	60	75
	690 V~	50	55	65	50	55	65	50	55	65	50	55	65	50	55	65	50	55	65
Service breaking capacity Ics (% Icu)		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Short-circuit making capacity Icm (kA)	230 V~	105	143	220	105	143	220	105	143	220	105	143	220	105	143	220	105	143	220
	415 V~	105	143	220	105	143	220	105	143	220	105	143	220	105	143	220	105	143	220
	500 V~	105	143	220	105	143	220	105	143	220	105	143	220	105	143	220	105	143	220
	600 V~	105	132	165	105	132	165	105	132	165	105	132	165	105	132	165	105	132	165
	690 V~	105	121	143	105	121	143	105	121	143	105	121	143	105	121	143	105	121	143
Short time withstand current Icw (kA) for t = 1s	230 V~	50	65	85	50	65	85	50	65	85	50	65	85	50	65	85	50	65	85
	415 V~	50	65	85	50	65	85	50	65	85	50	65	85	50	65	85	50	65	85
	500 V~	50	65	85	50	65	85	50	65	85	50	65	85	50	65	85	50	65	85
	600 V~	50	60	75	50	60	75	50	60	75	50	60	75	50	60	75	50	60	75
	690 V~	50	55	65	50	55	65	50	55	65	50	55	65	50	55	65	50	55	65
Category of use		B			B			B			B			B			B		
Isolation behavior		YES			YES			YES			YES			YES			YES		
Endurance (cycles)	mechanical	10000			10000			10000			10000			10000			10000		
	electrical	5000			5000			5000			5000			5000			5000		

DMX³ 4000

DMX ³ according to IEC 60947-2		DMX ³ 4000					
		3200			4000		
		N	H	L	N	H	L
Number of poles		3P - 4P			3P - 4P		
Rating In (A)		3200			4000		
Rated insulation voltage Ui (V)		1000			1000		
Rated impulse withstand voltage Uimp (kV)		12			12		
Rated operational voltage (50/60Hz) Ue (V)		690			690		
Frame		2			2		
Ultimate breaking capacity Icu (kA)	230 V~	50	65	100	50	65	100
	415 V~	50	65	100	50	65	100
	500 V~	50	65	100	50	65	100
	600 V~	50	60	75	50	60	75
	690 V~	50	55	65	50	55	65
Service breaking capacity Ics (% Icu)		100	100	100	100	100	100
Short-circuit making capacity Icm (kA)	230 V~	105	143	220	105	143	220
	415 V~	105	143	220	105	143	220
	500 V~	105	143	220	105	143	220
	600 V~	105	132	165	105	132	165
	690 V~	105	121	143	105	121	143
Short time withstand current Icw (kA) for t = 1s	230 V~	50	65	85	50	65	85
	415 V~	50	65	85	50	65	85
	500 V~	50	65	85	50	65	85
	600 V~	50	60	75	50	60	75
	690 V~	50	55	65	50	55	65
Category of use		B			B		
Isolation behavior		YES			YES		
Endurance (cycles)	mechanical	10000			10000		
	electrical	5000			5000		

DMX³ - I 2500 and 4000

DMX ³ - I according to IEC 60947-3		DMX ³ -I 2500				DMX ³ -I 4000	
		1250	1600	2000	2500	3200	4000
Number of poles		3P - 4P	3P - 4P	3P - 4P	3P - 4P	3P - 4P	3P - 4P
Rating In (A)		1250	1600	2000	2500	3200	4000
Rated insulation voltage Ui (V)		1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage Uimp (kV)		12	12	12	12	12	12
Rated operational voltage (50/60Hz) Ue (V)		690	690	690	690	690	690
Frame		1	1	1	1	2	2
Short-circuit making capacity Icm (kA)	230 V~	105	105	105	105	105	105
	415 V~	105	105	105	105	105	105
	500 V~	105	105	105	105	105	105
	600 V~	88	88	88	88	88	88
	690 V~	63	63	63	63	63	63
Short time withstand current Icw (kA) for t = 1s	230 V~	50	50	50	50	50	50
	415 V~	50	50	50	50	50	50
	500 V~	50	50	50	50	50	50
	600 V~	42	42	42	42	42	42
	690 V~	36	36	36	36	36	36
Isolation behavior		YES	YES	YES	YES	YES	YES
Endurance (cycles)	mechanical	10000	10000	10000	10000	10000	10000
	electrical	5000	5000	5000	5000	5000	5000

■ Temperature derating

Fixed version

Temperature	40°C		50°C		60°C		65°C		70°C	
	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n
DMX ³ 2500	800	1	800	1	800	1	800	1	800	1
	1000	1	1000	1	1000	1	1000	1	1000	1
	1250	1	1250	1	1250	1	1250	1	1250	1
	1600	1	1600	1	1600	1	1600	1	1600	1
	2000	1	2000	1	1960	0.98	1920	0.96	1880	0.94
	2500	1	2450	0.98	2350	0.94	2250	0.9	2150	0.86
DMX ³ 4000	3200	1	3200	1	3200	1	3136	0.98	3008	0.94
	4000	1	3920	0.98	3680	0.92	3440	0.86	3120	0.78

Draw-out version

Temperature	40°C		50°C		60°C		65°C		70°C	
	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n
DMX ³ 2500	800	1	800	1	800	1	800	1	800	1
	1000	1	1000	1	1000	1	1000	1	1000	1
	1250	1	1250	1	1250	1	1250	1	1250	1
	1600	1	1600	1	1600	1	1600	1	1600	1
	2000	1	2000	1	1960	0.98	1920	0.96	1875	0.94
	2500	1	2400	0.96	2250	0.9	2100	0.84	1950	0.78
DMX ³ 4000	3200	1	3200	1	3200	1	3072	0.96	2880	0.9
	4000	1	3760	0.94	3440	0.86	3200	0.8	2960	0.74

■ Derating at different altitudes

Air circuit breaker	DMX ³ 2500 and DMX ³ 4000			
Altitude H (m)	< 2000	3000	4000	5000
Rated current (at 40°C) I _n (A)	I _n	0.98 x I _n	0.94 x I _n	0.90 x I _n
Rated voltage U _e (V)	690	600	500	440
Rated insulation voltage U _i (V)	1000	900	750	600

■ Minimum recommended dimension of busbars per pole

I _n (A)	Vertical bars (mm)	Horizontal bars (mm)
630	50 x 10	60 x 10
800	60 x 10	60 x 10
1000	80 x 10	80 x 10
1250	80 x 10	2 x 60 x 10
1600	2 x 60 x 10	2 x 80 x 10
2000	2 x 80 x 10	3 x 80 x 10
2500	3 x 80 x 10	3 x 80 x 10
3200	3 x 100 x 10	3 x 100 x 10
4000	4 x 100 x 10	5 x 100 x 10

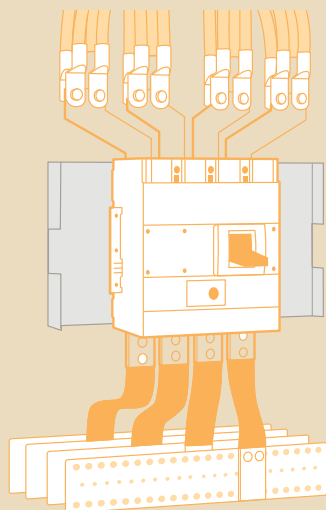
Note: The tables presenting the minimum recommended dimensions of connection plates and bars per pole should be used solely as a general guideline for selecting products. Due to extensive variety of switchgear constructions shapes and conditions that can affect the behavior of the apparatus, the solution used must always be verified

MCCBs: DPX Characteristics

Controlling and protecting circuits up to 1 600 A

The DPX system from 16 to 1 600 A

Simple, set criteria for selecting a DPX



■ Type of release

[thermal magnetic or electronic]
and breaking capacity [16, 25, 36, 50,
70 and 100 kA]

■ Size of unit:

125, 160, 250 ER, 250, 630, 1 250, 1 600

■ Version: fixed, plug-in or draw-out

[from 250 A]

■ A perfect fit: in the new

XL3 cabinets and enclosures

■ Auxiliaries that are common to the whole range

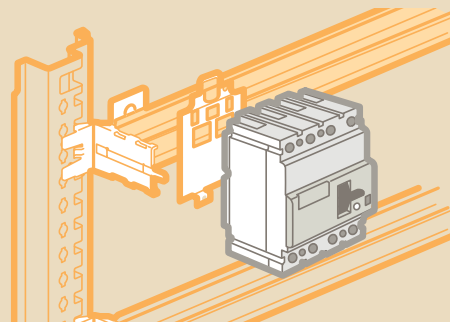
DPX can also be used with earth
leakage modules

Legrand Advantages

1. device = 1 catalogue number
2. Single installation principle irrespective of the device rating or version
3. Mounted under faceplate in standard or optimised distribution solutions

Mounting

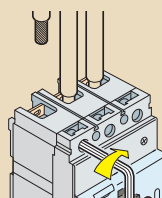
DPX 125, 160 and 250 ER are mounted on 2 rail.
They can also be installed on special plates



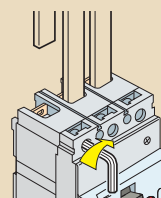
Connection (2 options)

■ Via front terminals

Connect directly on plate (bar or cable with lug)
or via cage terminal (cables) or on a base
(for plug-in or draw-out versions)



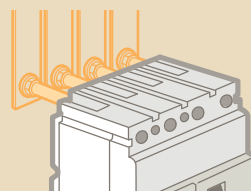
Connection via cables



Connection via bars

■ Via rear terminals

Connect bars or cables with lugs to the rear terminals
mounted directly on the devices (fixed version) or on
bases (for plug-in or draw-out versions)



Connection via bars



For products above 2500A please
consult us.

Notes

[illegible]

(1) Copper bar only
(2) Trip current for 50/60 Hz. For direct current, multiply by 1.5



DPX 250

DPX 250 Electronic trip

DPX 630

DPX 630 Electronic trip

DPX 1250

DPX 1600 Electronic trip

DPX
36 kA

DPX-H
70 kA

DPX
36 kA

DPX-H
70 kA

DPX
36 kA

DPX-H
70 kA

DPX
36 kA

DPX-H
70 kA

DPX
36 kA

DPX-H
70 kA

DPX
50 kA

DPX-H
70 kA

3P - 3P + N/2 - 4P

3P - 4P

3P - 4P

3P - 3P + N/2 - 4P

3P - 4P

3P - 4P

40 - 250

40 - 250

250 - 630

320 - 630

250 - 630

400 - 630

800 - 1250

800 - 1600

36

70

36

70

36

70

36

70

50

70

50

70

60

100

60

100

60

100

60

100

80

100

80

100

100

75

100

75

100

75

100

75

100

75

100

75

50/60 Hz

690 V~ - 250 V=

690 V~

690 VV~ - 250 V=

690 V~

690 V~ - 250 V=

690 V~

A

A

A

A: In 630 A
B: In 200 to 400 A

A

B

0.64 to 1 In

-

0.8 to 1 In

-

0.8 to 1 In

-

3.5 to 10 In

-

5 to 10 In

-

5 to 10 In

-

-

Ir: 0.4 to 1 In

-

Ir: 0.4 to 1 In

-

Ir: 0.4 to 1 In

-

Im: 1.5 / 10 Ir

-

Im: 1.5 / 10 Ir

-

Im: 1.5 / 10 Ir

-

Ir: 0.4 to 1 In
Tr: 5 to 30 s

-

Ir: 0.4 to 1 In
Tr: 5 to 30 s

-

Ir: 0.4 to 1 In
Tr: 5 to 30 s

-

Im: 1.5 / 10 Ir
Tm: 0.01 to 0.3 s

-

Im: 1.5 / 10 Ir
Tm: 0.01 to 0.3 s

-

Im: 1.5 / 10 Ir
Tm: 0.01 to 0.3 s

185 mm²

185 mm²

300 mm² or 2 x 240 mm²

300 mm² or 2 x 240 mm²

2 or 4 x 240 mm²

2 or 4 x 240 mm²

150 mm²

150 mm²

240 mm² or 2 x 185 mm²

240 mm² or 2 x 185 mm²

2 or 4 x 185 mm²

2 or 4 x 185 mm²

25 mm

25 mm

32 mm

32 mm

50 mm

50 mm

15 Nm

15 Nm

15 Nm

15 Nm

20 Nm

20 Nm

40 63 100 160 250

40 100 160 250

250 320 400 500 630

250 400 630

800 1000 1250

800 1250 1600

40 63 100 160 250

40 100 160 250

250 320 400 500 630

250 400 630

800 1000 1250

800 1250 1600

40 63 100 160 250

0 - 50 - 100 % of phase value

320 400 500 630

0 - 50 - 100 % of phase value

800 1000 1250

0 - 50 - 100 % of phase value

40 63 63 100 160

250 250 250 320

500 500 630

Adjustable

63 100 160 250

250 400 630

800 1000 1250

220 - 630 350 - 1000 560 - 1600 900 - 2500

1250 - 2500 2000 - 4000 3150 - 6300

4000 - 8000 5000 - 10000 6250 - 12500

220 - 630 350 - 1000 560 - 1600 900 - 2500

1250 - 2500 2000 - 4000 3150 - 6300

4000 - 8000 5000 - 10000 6250 - 12500

220 - 630 220 - 630 350 - 1000 560 - 1600

800 - 1600 1250 - 2500 2000 - 4000

DPX™ 125

Thermal magnetic MCCBs from 16 to 125 A



250 38



250 59



250 45 + 260 13



262 01



Dimensions (p. 31)
Electrical characteristics (p. 16 - 17 and 37 - 45)

MCCBs for switching, control isolation and protection of low voltage electrical lines
Can be fitted with auxiliaries (p. 29)
Can be used with earth leakage modules or with residual current relays (p. 30)
Supplied complete with:
- cage terminals 70 mm² max.
- terminal shields
Conform to IEC 60947-2
Can be mounted on rail

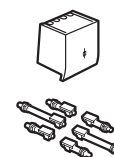
Pack	Cat. No.	DPX-E 125 - fixed version
		Thermal release adjustable from 0.7 to 1 In and sealable Fixed magnetic at 10 In in factory Breaking capacity Icu 16 kA (230 V~)
	1P	In
1	250 00	16 A
1	250 01	20 A
1	250 02	25 A
1	250 03	32 A
1	250 04	40 A
1	250 05	50 A
1	250 06	63 A
1	250 07	80 A
1	250 08	100 A
1	250 09	125 A

Pack	Cat. No.	Electronic earth leakage modules
		Can be fitted onto DPX/DPX-I 125 Adjustable, sealable sensitivity: 0.03 - 0.3 - 1 - 3 A Adjustable, tripping: 0 - 0.3 - 1 - 3 s Test push-button Reset push-button Remote earth fault signalling contact Switch for mechanical tests (installation insulation test) 230-500 V~ Mounted side by side (at right-hand side)
	3P 4P	In
1	260 02	63 A
1	260 12	125 A

Pack	Cat. No.	DPX 125 - fixed version
		Breaking capacity Icu 25 kA (400 V~)
	3P 4P	In
1	250 36	16 A
1	250 37	25 A
1	250 38	40 A
1	250 39	63 A
1	250 40	100 A
1	250 41	125 A
		Breaking capacity Icu 36 kA (400 V~)
	3P 4P	In
1	250 50	16 A
1	250 51	25 A
1	250 52	40 A
1	250 53	63 A
1	250 54	100 A
1	250 55	125 A

Pack	Cat. No.	Rotary handles
1	262 01	Direct on DPX Standard (grey) Vari-depth handle IP 55 Comprising: connection rod, bracket, drilling template, fixing accessories, door lock mechanism Standard (grey) For emergency use (red/yellow)
1	262 75	
1	262 76	

Pack	Cat. No.	Accessories
1	262 05	Sealable terminal shields Set of 2 Rear terminals Used to connect fixed version with front terminals into fixed version with rear terminal Set of upstream or downstream rear terminals
1	263 00	



DPX™ 160

Thermal magnetic MCCBs from 40 to 160 A



251 25



251 72



251 33 + 260 21



262 11



Dimensions (p. 32)
Electrical characteristics (p. 16 - 17 and 37 - 45)

MCCBs for switching, control isolation and protection of low voltage electrical lines
Can be fitted with auxiliaries (p. 29)
Can be used with earth leakage modules or with residual current relays (p. 30)
Supplied complete with:
- connection plates for bars
- upstream and downstream connection devices for lugs
- terminal shields
Conform to IEC 60947-2
Can be mounted on rail

Pack	Cat. No.		Fixed version
			Thermal adjustable from 0.64 to 1 In and sealable Fixed magnetic at 10 In in factory
			Breaking capacity Icu 25 kA (400 V~)
		3P	In
1	251 23		63 A
1	251 24		100 A
1	251 25		160 A
		3P + N/2	In
1	251 27		160 A
			Breaking capacity Icu 36 kA (400 V~)
		3P 4P	In
1	251 49	251 57	63 A
1	251 50	251 58	100 A
1	251 51	251 59	160 A
			Breaking capacity Icu 50 kA (400 V~)
		3P 4P	In
1	251 62	251 70	40 A
1	251 63	251 71	63 A
1	251 64	251 72	100 A
1	251 65	251 73	160 A

Pack	Cat. No.		ATS
1	264 01		Mounting plate For mechanical interlocking of 2 DPX of the same size for use in normal or automatic modes

Pack	Cat. No.		Electronic earth leakage modules
			Can be fitted onto DPX/DPX-I 160 Adjustable, sealable sensitivity: 0.03 - 0.3 - 1 - 3 A Adjustable, tripping: 0 - 0.3 - 1 - 3 s Test push-button Reset push-button Remote earth fault signalling contact Switch for mechanical tests (installation insulation test) 230-500 V~
		3P 4P	Mounted side by side (at right-hand side)
1	260 20	260 21	160 A

Pack	Cat. No.		Rotary handles
			Direct on DPX
1	262 11		Standard (grey)
			Vari-depth handle IP 55
			Comprising: connecting rod, bracket, drilling template, fixing accessories, door lock mechanism
1	262 77		Standard (grey)
			Accessories
		3P 4P	Sealable terminal shields
1	262 15	262 16	Set of 2
			Cage terminals
			Set of 4
1	262 18		For cable without lug 95 mm ² (rigid) or 70 mm ² (flexible)
1	262 19		For cable without lug 120 mm ² (rigid) or 95 mm ² (flexible)
			Adaptator for lug
1	262 17		Set of 4 (upstream or downstream) Supplied with insulated shield
			Rear terminals
			Used to connect a fixed version with front terminals into fixed version with rear terminals
1		3P	Set of upstream and downstream rear terminals
			263 10

Mounting accessories and common accessories (p. 21)

DPX™ 250 ER

Thermal magnetic MCCBs from 100 to 250 A



252 55



262 11



Dimensions (p. 33)

Electrical characteristics (p. 16 - 17 and p. 37 - 45)

MCCBs for switching, control isolation and protection of low voltage electrical lines
 Can be fitted with auxiliaries (p. 29)
 Can be used with earth leakage modules or with residual current relays (p. 30)
 Supplied complete with:
 - connection plates for bars
 - upstream and downstream connection devices for lugs (max. width 20 mm)
 - terminal shields
 Can be mounted on rail
 Conform to IEC 60947-2

Pack	Cat. No.		Fixed version
	3P	4P	Thermal adjustable from 0.64 to 1 In and sealable Fixed magnetic at 10 In in factory
			Breaking capacity Icu 36 kA (400 V~)
	In		
1	252 24	252 34	100 A
1	252 25	252 35	160 A
1	252 26	252 36	250 A
			Breaking capacity Icu 50 kA (400 V~)
	In		
1	252 44	252 54	100 A
1	252 45	252 55	160 A
1	252 46	252 56	250 A

Supply inverter type

Pack	Cat. No.	Mounting plate
1	264 02	For mechanical interlocking of 2 DPX of the same size for use in normal or automatic modes

Rotary handles

Pack	Cat. No.	Direct on DPX
1	262 11	Standard (grey)
		Vari-depth handle IP 55
		Comprising: connecting rod, bracket, drilling template, fixing accessories, door lock mechanism
1	262 77	Standard (grey)

Accessories

Pack	Cat. No.	Sealable terminal shields
1	262 85	Set of 2
Pack	Cat. No.	Cage terminals
1	262 88 ⁽¹⁾	Set of 4 For cable without lug 185 mm ² (rigid) or 150 mm ² (flexible) for DPX 250 ER and DPX-IS 250
Pack	Cat. No.	Spreaders
1	262 90	Set of incoming or outgoing spreaders
Pack	Cat. No.	Rear terminals
1	265 10	Used to convert the fixed version with front terminals to the fixed version with rear terminals Set of upstream and downstream rear terminals



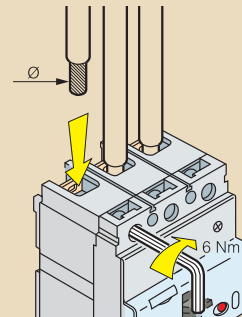
(1) Can not be mounted on side by side mounted earth leakage modules 160 A

DPX™ 125, 160 and 250 ER

Connection

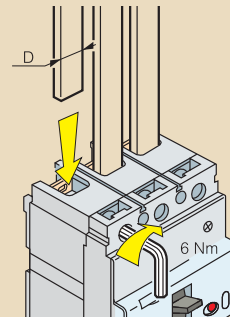
■ Connection

DPX front terminals
 Connection with cables



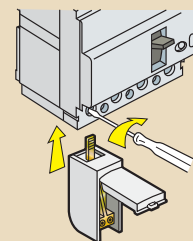
DPX	125	160	250 ER
max. Ø	12	18	18

Connection with bars



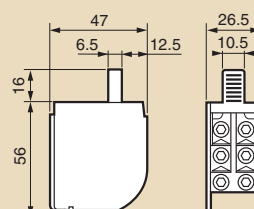
DPX	125	160	250 ER
D	12	18	18

■ Mounting of distribution terminal



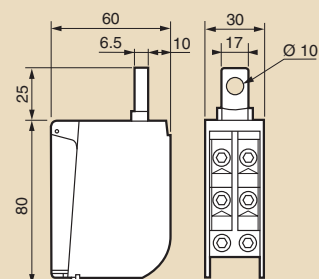
■ Distribution terminal

160 A



Cat. No. 048 67

250 A



Cat. No. 048 68

DPX™ 125, 160 and 250 ER

Mounting accessories



262 08



048 67



048 68



252 25 +
DPX250ERLK



262 00

Pack Cat. No. Fixing plates

1	262 08	For DPX 125
1	262 09	For DPX 160/250 ER



Insulated shields

Insulated shields

Used to isolated the connection between each pole

1	262 07	Set of 3
---	--------	----------



Distribution terminals

1	048 67	160 A - 6 outputs 25 mm ² flexible - Isc peak 30 kA Can be fitted directly onto downstream terminal of DPX 165/160, Vistop 100/160 A and DX H 125 A
1	048 68	250 A - 4 outputs 35 mm ² flexible and 2 outputs 25 mm ² flexible- Isc peak 36 kA Can be fitted directly onto downstream terminal of DPX 250/250 ER and DX-IS 250



Padlocks

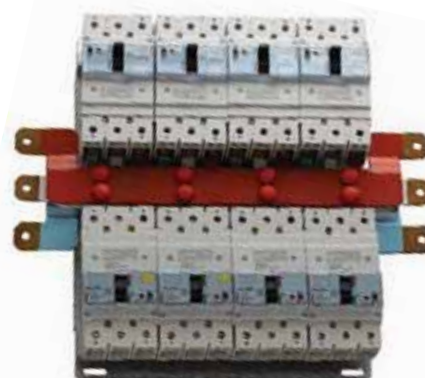
1	262 00	For locking in "off" position
1	262 10	For DPX 160 and DPX 250 ER
1	DPX125LK	For locking MCCB in "on" or "off" position
1	DPX250ERLK	For locking MCCB in "on" or "off" position

High current chassis

For DPX 125 & DPX 250 ER, 630A, 415V, 50Hz rated chassis tested at 36KA for 1s (76.6KA peak) in accordance with AS 3439-1:2002 clause 8.2.3



630A, 24-way high current chassis



630A, 24-way high current chassis fitted with DPX 250 ER MCCB's

Pack Cat. No. High Current Chassis

1	608 241	12 way 630A DPX125 320 x 370 x 54mm
1	608 242	18 way 630A DPX125 396 x 370 x 54mm
1	608 243	24 way 630A DPX125 473 x 370 x 54mm
1	608 244	12 way 630A DPX250ER 345 x 470 x 54mm
1	608 245	18 way 630A DPX250ER 435 x 470 x 54mm
1	608 246	24 way 630A DPX250ER 526 x 470 x 54mm

Some items sold separately

For pack quantity, please refer to numerical index pages

For trade price, please see your local HPM Legrand representative for the current price list

DPX™ 250

Thermal magnetic and electronic release MCCBs from 40 to 250 A



253 49



253 52



260 53



Dimensions (p. 34)

Electrical characteristics (p. 16 - 17 and 37 - 45)

Moulded case MCCBs for switching, control isolation and protection of low voltage electrical lines

Can be fitted with auxiliaries (p. 29)

Can be used with earth leakage modules or with residual current relays (p. 30)

Supplied complete with:

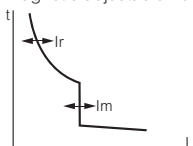
- connection plates for bars

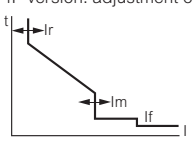
- upstream and downstream connection devices for lugs (width max. 20 mm)

- terminal shields

Conform to IEC 60947-2

Sealable adjustment

Pack	Cat. No.	DPX 250 thermal magnetic
		Thermal adjustable from 0.64 to 1 In Magnetic adjustable from 3.5 to 10 In
		
		DPX 250 36 kA Breaking capacity Icu 36 kA (400 V~)
	3P	4P
1	253 28	253 45
1	253 29	253 46
1	253 30	253 47
1	253 31	253 48
1	253 32	253 49
		DPX-H 250 70 kA Breaking capacity Icu 70 kA (400 V~)
	3P	In
1	253 52	40 A
1	253 53	63 A
1	253 54	100 A
1	253 55	160 A
1	253 56	250 A

Pack	Cat. No.	DPX 250 electronic release S1
		Adjustment of Ir and Im (p. 37) Instantaneous protection If = 4 kA Indicator lamp Minimum current for indicator lamp operation (30 % of In) - green: normal - fixed red: $I \geq 0.9 I_r$ - flushing red: $I \geq 1.05 I_r$ Connector for test unit Dynamic selectivity 4P version: adjustment of neutral on front panel
		
		DPX 250 36 kA Breaking capacity Icu 36 kA (400 V~)
	3P	4P
1	254 01	254 07
1	254 03	254 09
1	254 04	254 10
1	254 05	254 11
		DPX-H 250 70 kA Breaking capacity Icu 70 kA (400 V~)
	3P	In
1	254 13	40 A
1	254 15	100 A
1	254 16	160 A
1	254 17	250 A

Pack	Cat. No.	Electronic earth leakage modules
		Can be fitted onto DPX 250 Adjustable, sealable sensitivity: 0.03 - 0.3 - 1 - 3 A Adjustable, time delay: 0 - 0.3 - 1 - 3 s Test push-buttons Reset push-button Remote earth fault signalling contact Switch for mechanical tests (installation insulation test) Mounted underneath
		LED version Monitors the isolation state of the installation via a series of LEDs
	4P	In
1	260 53	160 A
1	260 57	250 A

Pack	Cat. No.	ATS (Auto Transfer Switch)
		An ATS is composed of one plate with interlock for 2 devices Plate for MCCB or trip-free switch fixed version
1	264 08	

DPX™ 250

Equipment and accessories



262 22



262 79



261 30

Pack	Cat. No.	Rotary handles
1	262 22	Direct on DPX Standard (grey)
		Vari-depth handle IP 55 Comprising: connection rod, bracket, self-adhesive drilling template, mounting accessories and door lock mechanism
1	262 79	Standard (black)
Motor-driven handles		
1	261 30	Front operated 24 V~
1	261 34	230 V~

Pack	Cat. No.	Accessories
1	262 30	Insulated shields Set of 3
		3P Sealable terminal shields
1	262 26	Set of 2 long terminal shields
1	262 28	Set of 2 short terminal shields
		Padlock
1	262 21	For locking in "open" position
		Cage terminals
1	262 35	Set of 4 terminals for cable 185 mm² max. or 150 mm² max. (flexible)
		3P Spreaders
1	262 33	Set of spreaders incoming or outgoing
		Distribution terminal 250 A
1	048 68	250 A - 4 outputs 35 mm² flexible and 2 outputs 25 mm² flexible - Isc peak 36 kA Can be fitted directly onto downstream terminal of DPX 250/250 ER and DPX-IS 250
1	265 27	Rear orientated terminals
1	264 08	Metal plate for mechanical interlock

DPX™ 630

Thermal magnetic and electronic release MCCBs from 250 to 630 A



255 40



255 38



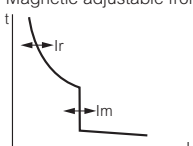
256 07

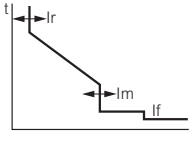
Green indicator lamp (only S1): normal operation minimum current for indicator lamp operation (30 % of I_n)
Fixed red indicator lamp: $\geq 0.9 I_r$
Flushing red indicator lamp: $I \geq 1.05 I_r$ connector for test unit



Dimensions (p. 35)
Electrical characteristics (p. 16 - 17 and 37 - 45)

Moulded case MCCBs for switching, control isolation and protection of low voltage electrical lines
Can be fitted with auxiliaries (p. 29)
Can be used with earth leakage modules or with residual current relays (p. 30)
Supplied complete with:
- connection plates for bars
- terminal shields
Conform to IEC 60947-2 - Sealable adjustment

Pack	Cat. No.		DPX 630 thermal magnetic
			Thermal adjustable from 0.8 to 1 I_n Magnetic adjustable from 5 to 10 I_n 
			DPX 630 36 kA Breaking capacity I_{cu} 36 kA (400 V~)
	3P	4P	I_n
1	255 21	255 36	250 A
1	255 22	255 37	320 A
1	255 23	255 38	400 A
1	255 25	255 39	500 A
1	255 24	255 40	630 A
			DPX-H 630 70 kA Breaking capacity I_{cu} 70 kA (400 V~)
	3P	4P	I_n
1	255 43	255 58	400 A
1	255 45	255 59	500 A
1	255 44	255 60	630 A

Pack	Cat. No.		DPX 630 electronic release S1
			Adjustment of I_r , I_m , (p. 37) Instantaneous protection $I_f = 5 \text{ kA}$ Green indicator lamp Connector for test unit Dynamic selectivity 4P version: ajustement of neutral on front panel 
			DPX 630 36 kA Breaking capacity I_{cu} 36 kA (400 V~)
	3P	4P	I_n
1	256 02	256 06	400 A
1	256 03	256 07	630 A
			DPX-H 630 70 kA Breaking capacity I_{cu} 70 kA (400 V~)
	3P	4P	I_n
1	256 10	256 14	400 A
1	256 11	256 15	630 A

DPX™ 630

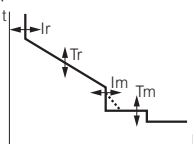
Thermal magnetic and electronic release MCCBs
from 250 to 630 A (continued)



256 35



260 63

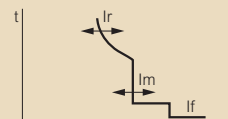
Pack	Cat.No.		DPX 630 electronic release S2
			Adjustment of I_r , I_m , T_r , T_m (opposite) Instantaneous protection $I_f = 5$ kA Green indicator lamp Connector for test unit Logic and dynamic selectivity 4P version: adjustment of neutral on front panel
			
			DPX 630 36 kA Breaking capacity I_{cu} 36 kA (400 V~) I_n
	3P	4P	
1	256 26	256 30	250 A
1	256 27	256 31	400 A
1	256 28	256 32	630 A
			DPX-H 630 70 kA Breaking capacity I_{cu} 70 kA (400 V~) I_n
1	256 35	256 39	400 A
1	256 36	256 40	630 A
			DPX-L 630 100 kA Breaking capacity I_{cu} 100 kA (400 V~) I_n
1	256 43	256 47	400 A
1	256 44	256 48	630 A

			Earth leakage modules Can be fitted onto DPX/DPX-I 630 Adjustable, sealable sensitivity: 0.03 - 0.3 - 1 - 3 A Adjustable, time delay: 0 - 0.3 - 1 - 3 s Test push-button Reset push-button Remote earth fault signalling contact Switch for mechanical tests (installation insulation test) Mounted underneath 230-500 V~
			Standard I_n
	3P	4P	
1	260 60	260 61	400 A
1	260 64	260 65	630 A
			LED version Monitors the isolation state of the installation via a series of LEDs I_n
	4P		
1	260 63		400 A
1	260 67		630 A

DPX™ 630

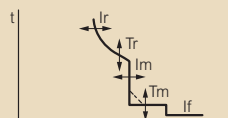
■ Performance data

S1 - Adjustment of I_r , I_m



- Long delay protection against overloads with an adjustable threshold based on the rms value of the current:
 $I_r = 0.4 - 0.5 - 0.7 - 0.8 - 0.95 - 1 \times I_n$ (8 steps)
 $T_r = 5$ s (fixed at 6 tr)
- Short delay protection against short-circuits with an adjustable I_m threshold:
 $I_m = 1.5 - 2 - 3 - 4 - 5 - 6 - 8 - 10 \times I_r$ (8 steps)
 $T_m = 0.05$ s (fixed)
- Instantaneous protection
if with fixed threshold: $I_f = 5$ kA

S2 - Adjustment of I_r , T_r , I_m , T_m



- Long delay protection against overloads with an adjustable threshold based on the rms value of the current:
 $I_r = 0.4 - 0.5 - 0.7 - 0.8 - 0.9 - 0.95 - 1 \times I_n$ (8 steps)
 $T_r = 5 - 10 - 20 - 30$ s (at 6 I_r) (4 steps)
- Short delay protection against short-circuits with an adjustable I_m threshold:
 $I_m = 1.5 - 2 - 3 - 4 - 5 - 6 - 8 - 10 \times I_r$ (8 steps)
 $T_m = 0 - 0.1 - 0.2 - 0.3$ s (4 steps)
 $T_m = 0.01 - 0.1 - 0.2 - 0.3$ s at $12 \times I_r$ ($I_2 t$ constant) (4 steps)
- Instantaneous protection against short-circuits
with fixed threshold: $I_f = 5$ kA

DPX™ 630

Equipment and accessories



262 50



262 51



262 48

Pack	Cat. No.	Supply inverter type
1	264 09	Factory assembled A supply inverter type is composed of one plate with interlock for 2 devices Plate for MCCB or trip-free switch fixed version

Pack	Cat. No.	Rotary handles
1	262 41	Direct on DPX Standard (grey)

Pack	Cat. No.	Rotary handles
1	262 81	Vari-depth handle IP 55 Comprising: connection rod, bracket, self-adhesive drilling template, mounting accessories and door lock mechanism Standard (grey)

Pack	Cat. No.	Motor-driven handles
1	261 40	Front operated 24 V~
1	261 44	230 V~

Pack	Cat. No.	Accessories
1	262 30	Insulated shields Set of 3
1	262 44 262 45	Sealable terminal shields Set of 2
1	262 40	Padlock For locking in "OPEN" position
1	DPX630LK	For locking MCCB in "on" or "off" position
1	DPX630LK	For locking in "on" or "off" position
1	262 50	Cage terminals Set of 4 terminals for cable 300 mm² max. (rigid) or 240 mm² max. (flexible)
1	262 51	Set of 4 high-capacity terminals for cable 2 x 240 mm² (rigid) or 2 x 185 mm² (flexible)
1	262 48 262 49	Spreaders Set of incoming or outgoing spreaders

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electric
100% electricity



Control solutions for industry

- Motor protection circuit breakers
- Switch disconnectors
- Contactors
- Motor Protection relays
- Electromechanical starters
- Control and signalling units
- Limit, micro and foot switches
- Rotary cam switches
- Rotary cam switches
- Motor contractors
- Time Relays
- Protection relays
- Level control relays
- Earth leakage relays
- Metering instruments and current transformers
- Soft starters
- AC motor drives
- Automatic power factor controllers
- Automatic battery chargers
- Automatic transfer switch controllers
- Programmable logic relays
- Switching power supplies



DPX™ 1250 - 1600

Thermal magnetic and electronic release MCCBs from 800 to 1600 A



258 04



257 08



Dimensions (p. 36)
Electrical characteristics (p. 16 - 17 and 37 - 45)

Moulded case MCCBs for switching, control isolation and protection of low voltage electrical lines
Can be fitted with auxiliaries (integrated terminal blocks)
Can be used with earth leakage modules or with residual current relays (p. 30)
Supplied complete with:
- connection plates for bars
- terminal shields
Conform to IEC 60947-2
Fixed version - Sealable adjustment

Pack	Cat.No.		DPX 1250 thermal magnetic
			Thermal adjustable from 0.8 to 1 In Magnetic adjustable from: 5 to 10 In
			DPX 1250 50 kA Breaking capacity Icu 50 kA (400 V~) In
1	3P 258 02	4P 258 09 ⁽¹⁾	800 A
1	258 03	258 10 ⁽¹⁾	1000 A
1	258 04	258 11 ⁽¹⁾	1250 A
			DPX-H 1250 70 kA Breaking capacity Icu 70 kA (400 V~) In
1	258 16	258 23 ⁽¹⁾	800 A
1	258 17	258 24 ⁽¹⁾	1000 A
1	258 18	258 25 ⁽¹⁾	1250 A

Pack	Cat.No.		DPX 1600 electronic release S1
			Adjustment of Ir, Im Instantaneous protection If = 20 kA Indicator lamp Minimum current for indicator lamp operation (30 % In): green: normal; fixed red: $I \geq 0.9 I_r$; flashing red: $I \geq 1.05 I_r$ Connector for test unit Dynamic selectivity
			DPX 1600 50 kA Breaking capacity Icu 50 kA (400 V~) In
1	3P 257 02	4P 257 06 ⁽²⁾	800 A
1	257 03	257 07 ⁽²⁾	1250 A
1	257 04	257 08 ⁽²⁾	1600 A
			DPX 1600 70 kA Breaking capacity Icu 70 kA (400 V~) In
1	257 10	257 14 ⁽²⁾	800 A
1	257 11	257 15 ⁽²⁾	1250 A
1	257 12	257 16 ⁽²⁾	1600 A
			DPX 1600 electronic release S2 Adjustment of Ir, Im, Tr, Tm Instantaneous protection If = 20 kA Indicator lamp Minimum current for indicator lamp operation (30 % In): green: normal; fixed red: $I \geq 0.9 I_r$; flashing red: $I \geq 1.05 I_r$ Connector for test unit Logic and dynamic selectivity
			DPX 1600 50 kA Breaking capacity Icu 50 kA (400 V~) In
1	3P 257 26	4P 257 30 ⁽²⁾	800 A
1	257 27	257 31 ⁽²⁾	1250 A
1	257 28	257 32 ⁽²⁾	1600 A
			DPX-H 1600 70 kA Breaking capacity Icu 70 kA (400 V~) In
1	257 34	257 38 ⁽²⁾	800 A
1	257 35	257 39 ⁽²⁾	1250 A
1	257 36	257 40 ⁽²⁾	1600 A

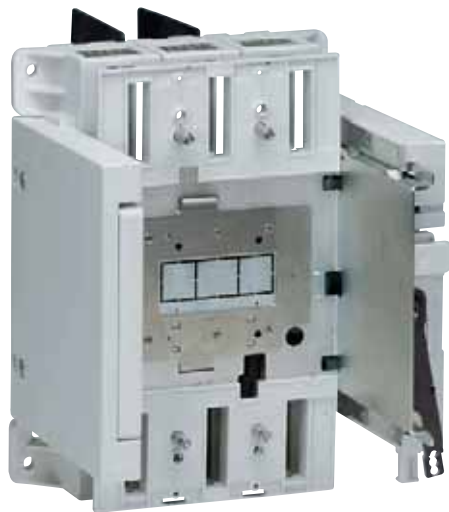


For DPX-L 1250 100 kA and Sg electronic release version, please consult us

(1) Neutral without protection
(2) Neutral settings 0 - 0.5 - 1 N (0 - 50% - 100% Neutral)

DPX™ 1250 - 1600

Equipment and accessories



265 84 (supplied assembled)



262 60



262 70



262 67 + 262 68

Pack	Cat.No.	Draw-out version
		A DPX draw-out version is a plug-in DPX fitted with a "Debro-lift" mechanism which can be used to withdraw the DPX while keeping it on its base
		Draw-out base
		Base for DPX 1600 supplied with "Debro-lift" assembled a rigid slide and handle for drawing-out
1	3P 265 82	Front terminals
1	4P 265 83	Rear terminals
		Key lock for "Debro-lift" mechanism
		Enable locking of DPX in drawn-out position
1	265 76	One key Ronis for DPX only
1	265 80	Two key Ronis (one key supplied) for motorised DPX or with rotary handle
		Accessories for "Debro-lift" mechanism
1	265 75	Isolated handle for drawing-out
1	265 74	Signalling contact (plugged-in/drawn-out)

Pack	Cat.No.	ATS (Auto Transfer Switch)
1	264 10	Auto Transfer Switch is composed of one plate with interlock for 2 devices
1	264 05	Plate for MCCBs or trip-free switch fixed version
		Plate for MCCBs or trip-free switch plug-in and draw-out version

Pack	Cat.No.	Rotary handles
1	262 61	Direct on DPX
		Standard (black)
		Vari-depth handle IP 55
		Comprising: connection rod, bracket, self-adhesive drilling template, mounting accessories and door lock mechanism
1	262 83	Standard (black)
1	262 84	For emergency use (red/yellow)
		Locking accessories
1	262 92	Eurolocks for vari-depth handle
1	262 93	Profalux for vari-depth handle
1	262 94	Ronis for vari-depth handle
1	262 25	Eurolocks for direct handle

Pack	Cat.No.	Motor-driven handles
		Factory assembled
1	261 54	Front operated
		230 V~
		Customer assembled
1	261 24	Front operated
1	261 25	24 V~/=
1	261 26	48 V~/=
1	261 23	110 V~/=
1	261 27	230 V~/= for ratings up to 1250 A (In 1250 A)
1	261 27	230 V~/= for 1600 A (In 1600 A)
1	261 59	Locking accessory
		Ronis locking accessory
		Accessories
		Insulated shields
		Used to isolate the connections between each pole
1	262 66	Set of 3
		Sealable terminal shields
1	3P 262 64	Set of 2
		Padlock
1	262 60	For locking in "open" position
		Cage terminals
1	262 69	Set of 1 terminal for cables without lug
1	262 70	2 x 240 mm ² for rigid cable or 2 x 185 mm ² for flexible cable
		Set of 1 high-capacity terminal for cables without lug
		4 x 240 mm ² for rigid cable
		4 x 185 mm ² for flexible cable
		Extended front terminals
		Set of 4
1	262 67	Short terminals for 630 - 1250 A (2 bars max. per pole)
1	262 68	Long terminals for 1600 A (3 bars max. per pole)
		Spreaders
1	3P 262 73	Set of incoming or outgoing spreaders
		Rear terminals
		Used to convert the fixed version with front terminals to the fixed version with rear terminals
		Set of incoming or outgoing rear terminals
1	263 80	Short terminals
1	263 81	Long terminals
		263 82
		263 83

DPX™ auxiliaries

DPX™ auxiliaries

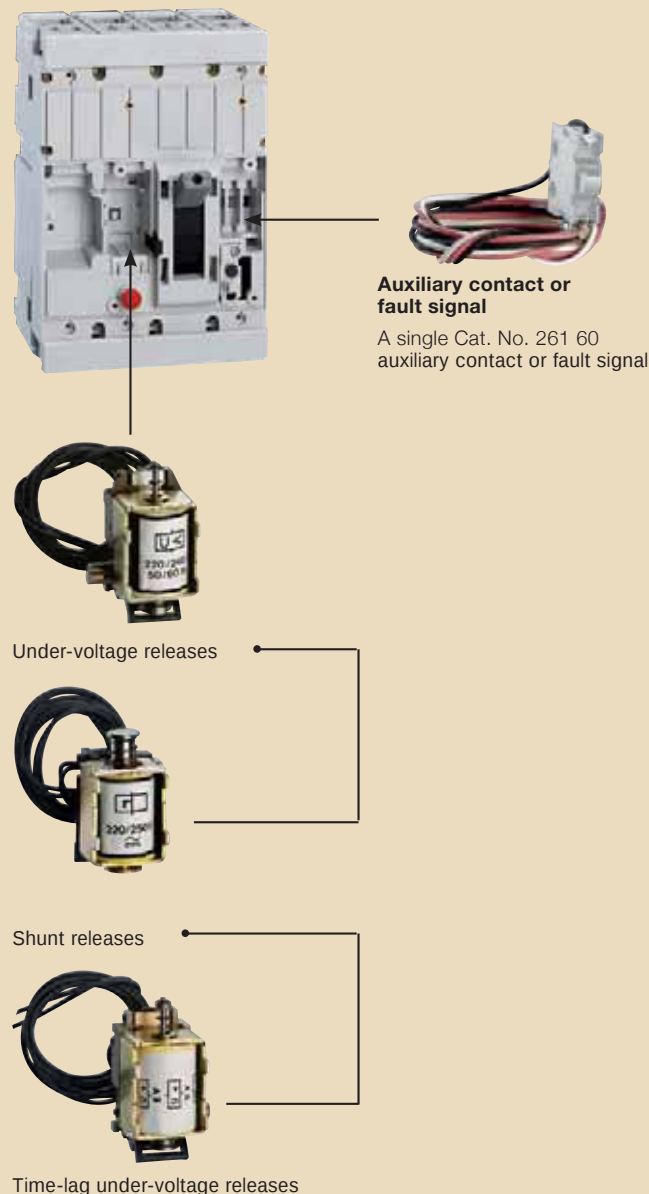


Pack	Cat. No.	Auxiliary contact or fault signal
1	261 60	For signalling the state of the contacts or opening of the MCCB on a fault For DPX/DPX-I/DPX-IS Changeover switch 3 A - 240 V~ Releases Allow remote tripping of a DPX Shunt releases For DPX-IS and DPX Shunt inrush power 300 VA 1 261 64 Coil voltage 24 V~/~ 1 261 67 Coil voltage 230 V~/~ For DPX 125 For DPX 160, 250ER DPX-IS DPX-IS 800, 1000, 1250, 1600 250, 630 Undervoltage releases For DPX-IS/DPX-I and DPX Undervoltage power consumption 5 VA 1 261 70 261 80 Coil voltage 24 V~ 1 261 71 261 81 Coil voltage 24 V~ 1 261 73 261 83 Coil voltage 230 V~ Time-lag (ms) undervoltage releases Allow remote tripping of a DPX Prevent false tripping in the event of AC supply microbreaks Require a time-lag module connected to the undervoltage releases below 1 261 90 Time-lag modules 230 V~ 1 261 75 Undervoltage releases For DPX/DPX-I 125, DPX -IS 250,630 1 261 85 Undervoltage releases For DPX/DPX-I 160, 250ER, and DPX -IS 1600

Number of modules
3

Automatic transfer switch controller

1	261 94	Automatic transfer switch controller, with RS485 ports and real time clock Size: 144 x 144 mm Weight: 0.900 kg
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Max. number of contacts per DPX-IS device

	Device	Auxiliary contact			Shunt release or undervoltage release
		AC	EBAC	FS	
Without release	DPX-IS 250	1	2	–	–
Without release	DPX-IS 630	2	2	–	–
With release	DPX-IS 1600	3	–	1	1

AC = auxiliary contact
EBAC = "early" auxiliary contact
FS = break on trip contact

Max. number of contacts per DPX device

Device	Auxiliary contact		Shunt release or undervoltage release
	AC	FS	
DPX 125	1	1	1
DPX 160	1	1	1
DPX 250 ER	1	1	1

Residual current relay and coils



260 88



260 93 coil for use with relay



260 98

Add residual current protection to DPX trip-free switches and DPX MCCBs equipped with release

Pack	Cat. No.	Residual current relay
1	260 88	Detects fault currents, and, when used with a shunt trip or an undervoltage release, it gives the trip command to a MCCB or a switch - Comprises: - a tinged, sealable window - an auxiliary contact - a green Led indicating energisation 3 yellow Leds indicating respectively the max. phase earth insulation current: 20, 40 and 60 % - a red Led indicating - Fixed: exceeding of the insulation fault current value - Flashing: breaking of one of the connections between coils and relays - For use with coils: - Ø35 and 80 mm Adjustable sensitivity: 0.03, 0.05, 0.075, 0.1, 0.15, 0.2, 0.3, 0.5, 0.75, 1, 1.5, 2, 3, 5, 7.5, 10, 15, 20, 30 A Adjustable sensitivity: 0.3, 0.5, 0.75, 1, 1.5, 2, 3, 5, 7.5, 10, 15, 20, 30 A Adjustable sensitivity: 0.5, 0.75, 1, 1.5, 2, 3, 5, 7.5, 10, 15, 20, 30 A Adjustable sensitivity: 1, 1.5, 2, 3, 5, 7.5, 10, 15, 20, 30 A - Adjustable trip: 0, 0.15, 0.25, 0.5, 1, 2.5, 5 seconds - Supply voltage: 230/240 V - 50/60 Hz Residual current relay to clip on rail 2

Number of modules
2

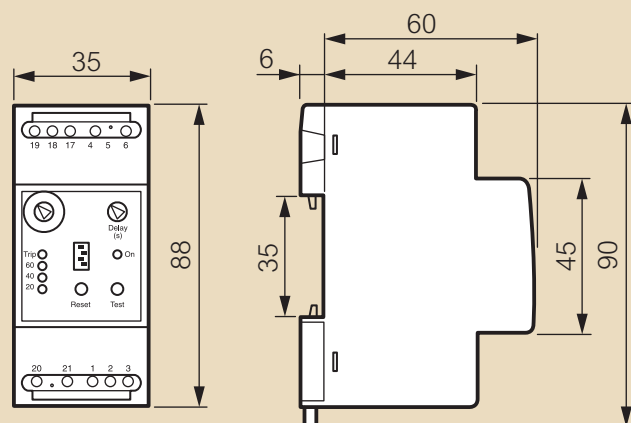
Pack	Cat. No.	Coils
1	260 92	For use with residual current relay Cat. No. 260 88
1	260 93	1 coil per DPX
1	260 94	Coil Ø35 mm
1	260 95	Coil Ø80 mm
1	260 96	Coil Ø110 mm
1	260 97	Coil Ø140 mm
1	260 98	Coil Ø210 mm
1	260 99	Coil Ø210 mm
1	260 97	Coil Ø150 mm - open
1	260 98	Coil Ø300 mm - open

		Viking 3 disconnecter block for measurement 1 connection				
		With its accessories, allows intervention (measurement, maintenance, etc.) on a current, voltage and power measuring circuit by keeping the current transformer secondary circuit closed				
		Colour	Nominal cross section (mm²)	Capacity Rigid wire (mm²)	Capacity Flexible wire (mm²)	Pitch (mm)
25	371 92	Grey	4	0.25 to 4	0.25 to 4	8

Residual current relay and coils

Residual current relay

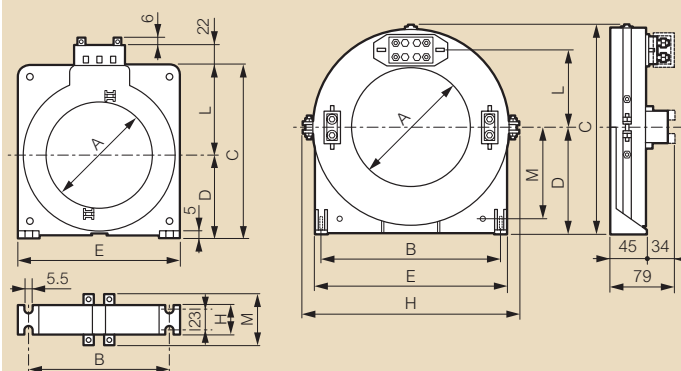
Cat. No. 260 88



Coils

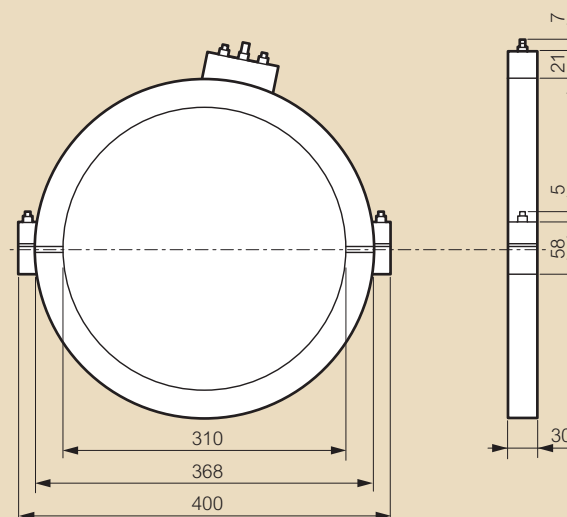
Cat. No. 260 92/93/94/95/96

Cat. No. 260 97



Cat. No.	A	B	C	D	E	H	L	M
260 92	35	75	85	42	92	36	43	56
260 93	80	108	132	67	125	36	65	56
260 94	110	148	170	86	165	36	84	56
260 95	140	177	206	104	200	36	102	56
260 96	210	270	295	150	290	44	145	64
260 97	150	225	259	133	245	275	95	113

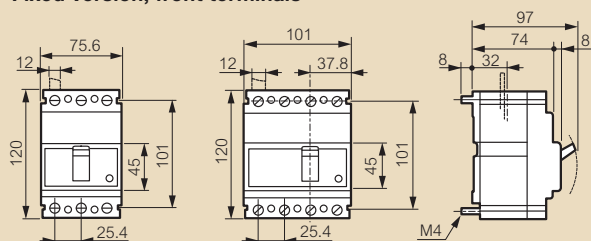
Cat. No. 260 98



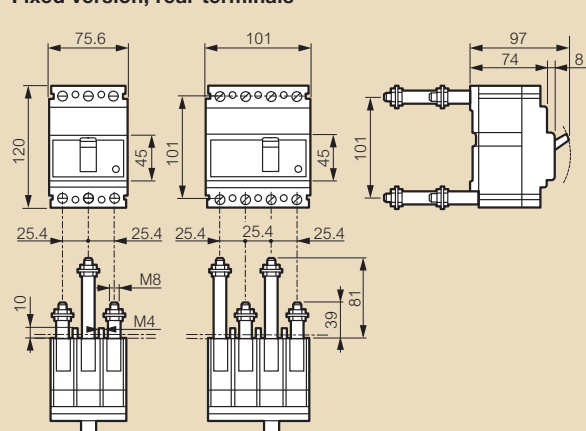
DPX™ 125

■ Dimensions

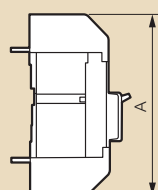
Fixed version, front terminals



Fixed version, rear terminals

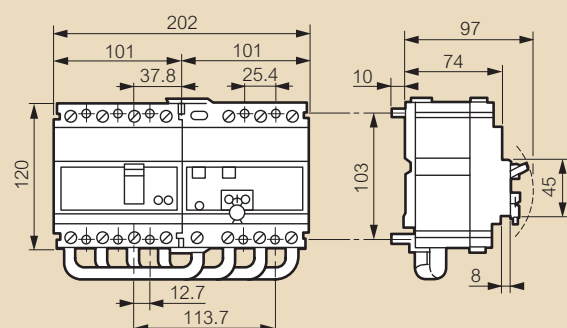


Terminal shields

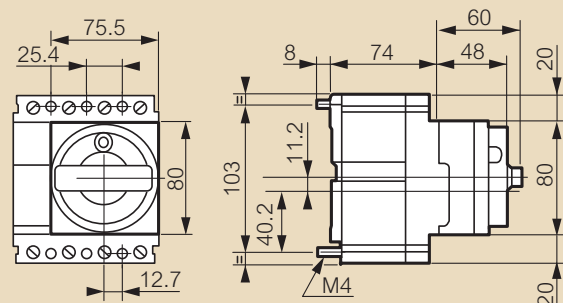


	A
DPX 125	170
DPX 125 + earth leakage module mounted underneath	260

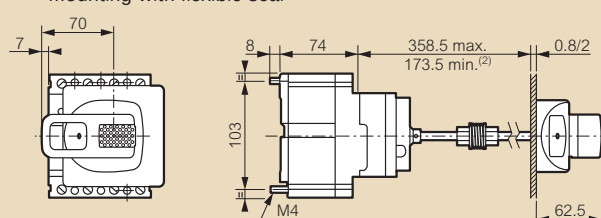
Fixed version, front terminals with earth leakage module mounted side by side ⁽¹⁾



Rotary handle-direct on DPX



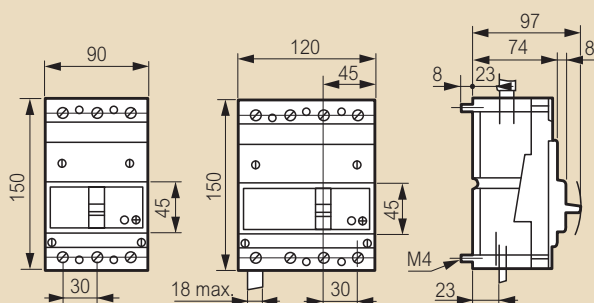
Rotary handle-vari-depth on door Mounting with flexible seal



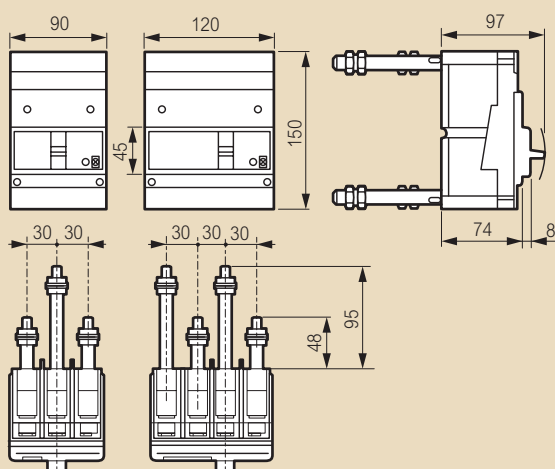
- (1) Dimensions of 3-pole earth leakage modules are the same as 4-pole earth leakage modules
- (2) 70 mm without mechanical system

■ Dimensions

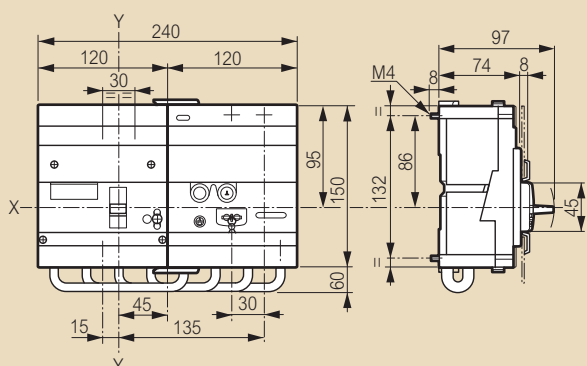
Fixed version, front terminals



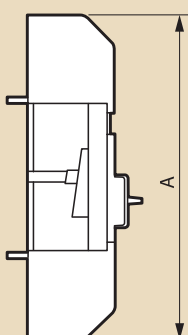
Fixed version, rear terminals



Fixed version, front terminals with earth leakage module mounted side by side⁽¹⁾

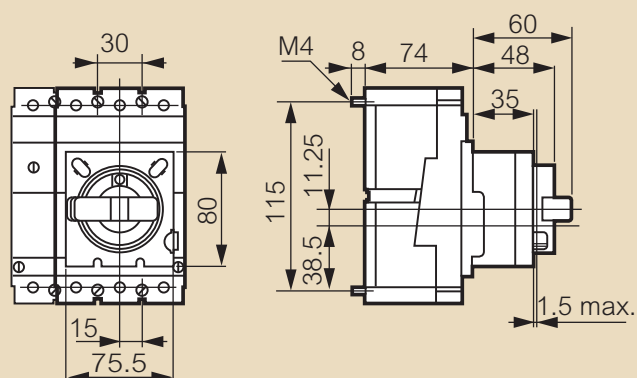


Terminal shields



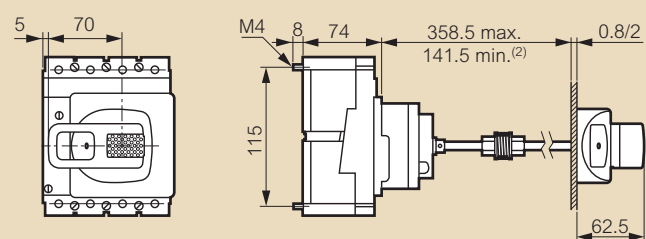
	A
DPX 160	278
DPX 160 + earth leakage module mounted underneath	393

Rotary handle direct on DPX



Rotary handle-vari-depth on door

Mounting with flexible seal

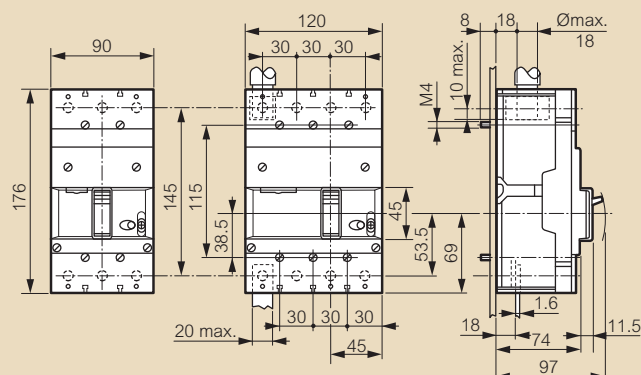


- (1) Dimensions of 3-pole earth leakage modules are the same as 4-pole earth leakage modules
(2) 70 mm without mechanical system

DPX™ 250 ER

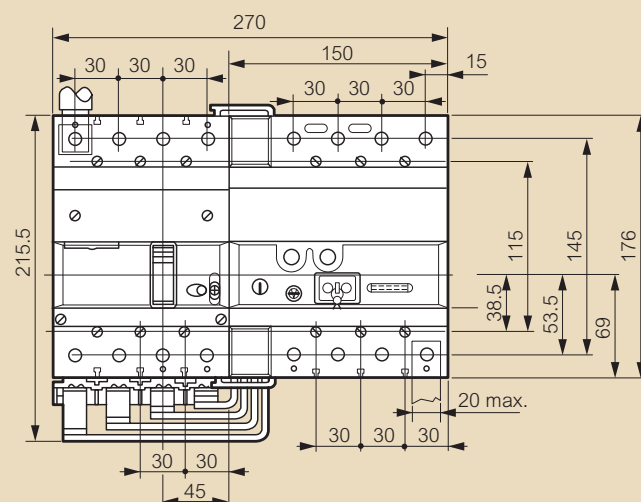
■ Dimensions

Fixed version, front terminals

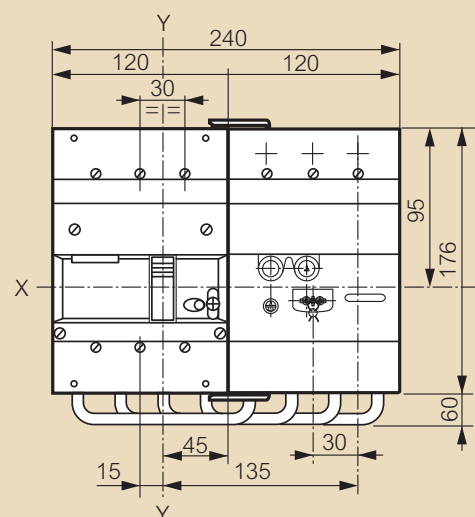


Fixed version, front terminals with earth leakage module mounted side by side ⁽¹⁾

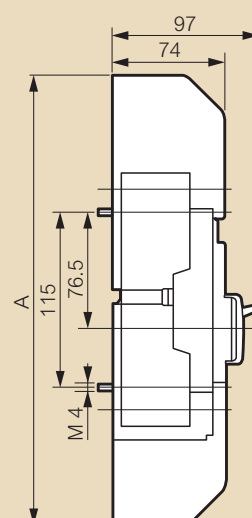
250 A



160 A

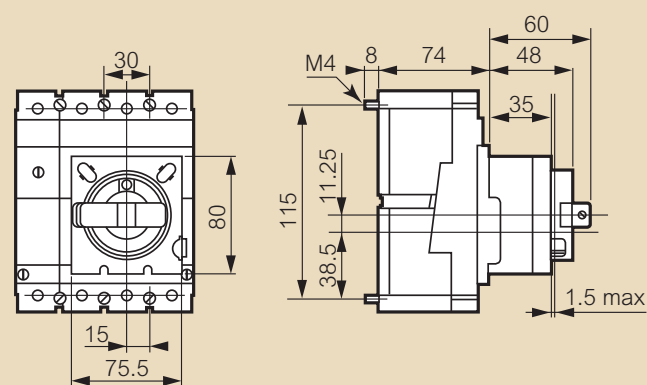


Terminal shields



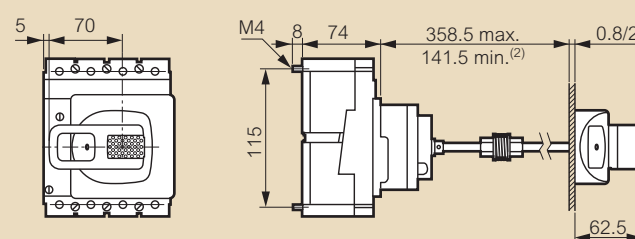
	A
DPX 250 ER	296

Rotary handle-direct on DPX



Rotary handle-vari-depth on door

Mounting flexible seal

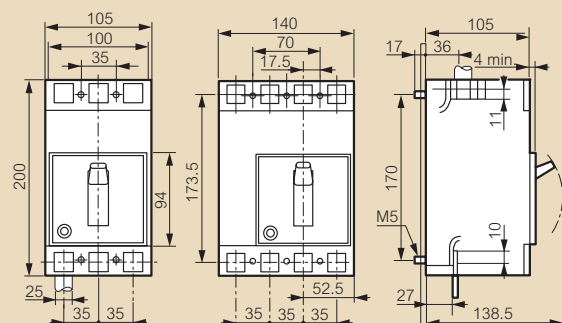


(1) Dimensions of 3-pole earth leakage modules are the same as 4-pole earth leakage modules

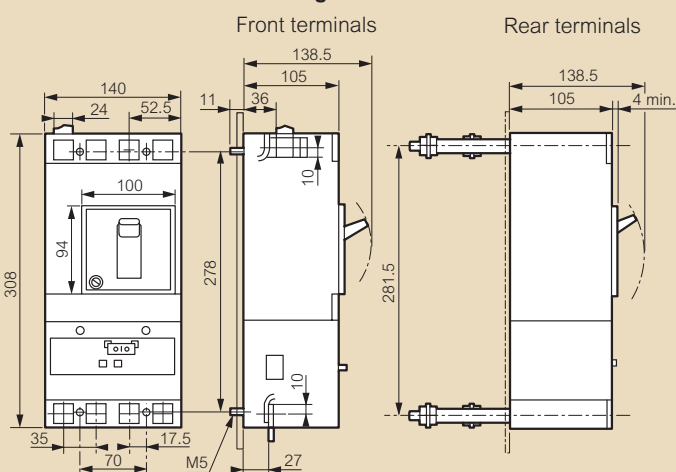
(2) 70 mm without mechanical system

■ Dimensions

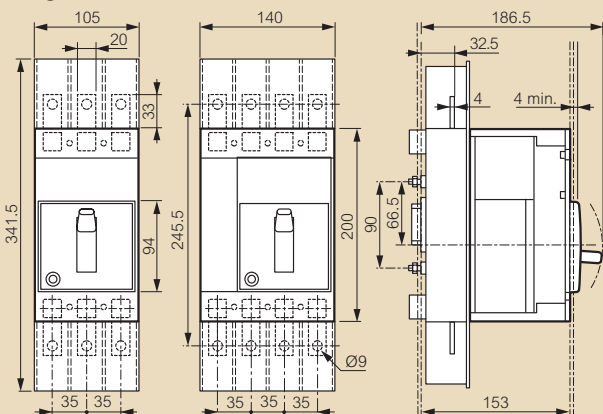
Fixed version, front terminals



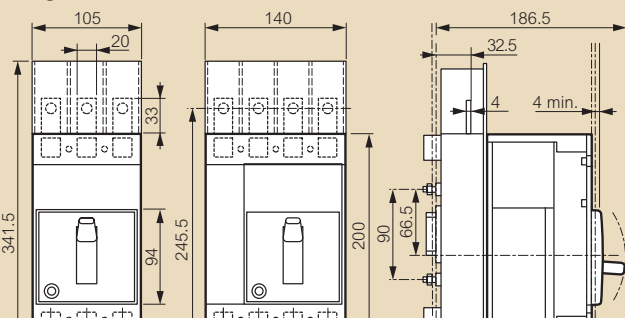
Fixed version with earth leakage module mounted underneath⁽¹⁾



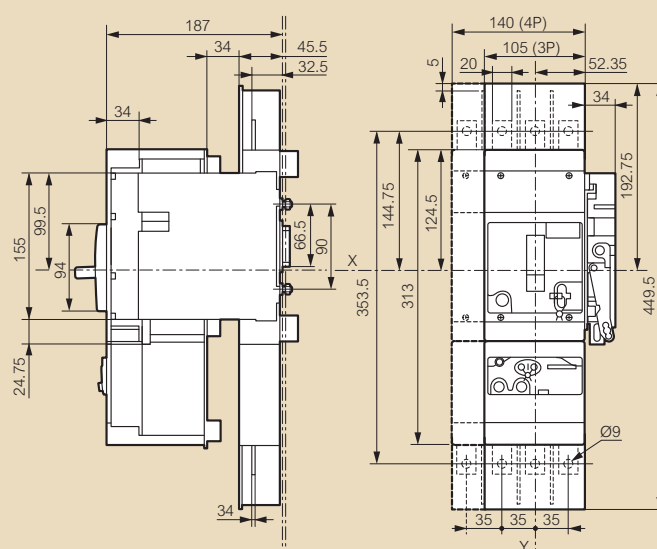
Plug-in version, front terminals



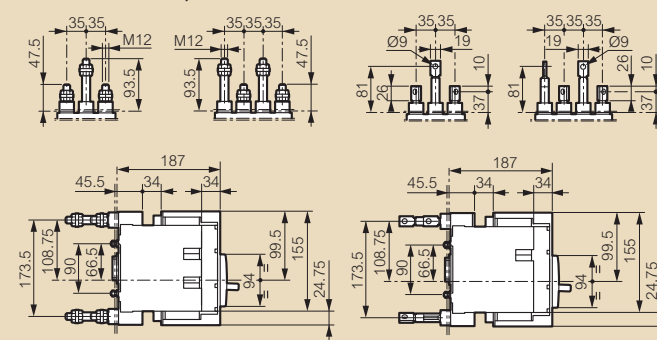
Plug-in version, rear terminals



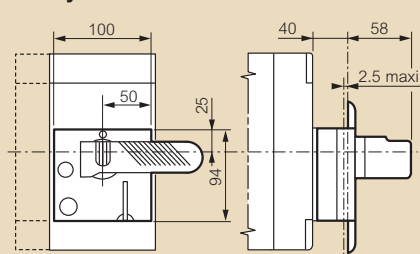
Draw-out version, front terminals



Draw-out version, rear terminals



Rotary handle-direct on DPX

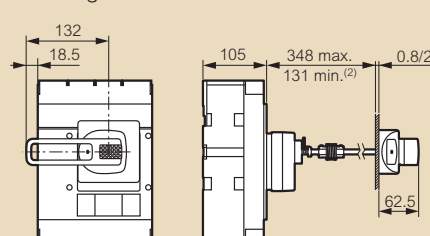


Terminal shields

	A
DPX 250	330
DPX 250 + earth leakage module	438

Rotary handle-vari-depth on door

Mounting with flexible seal

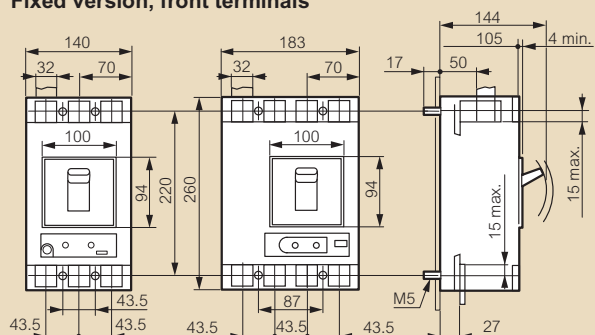


(1) Dimensions of 3-pole earth leakage modules are the same as 4-pole earth leakage modules
(2) 75 mm without mechanical system

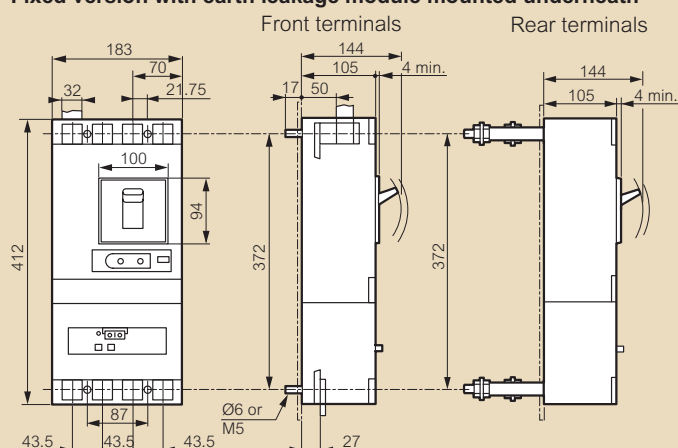
DPX™ 630

■ Dimensions

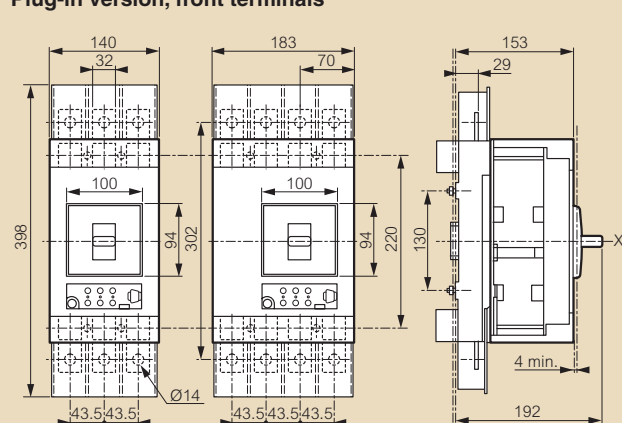
Fixed version, front terminals



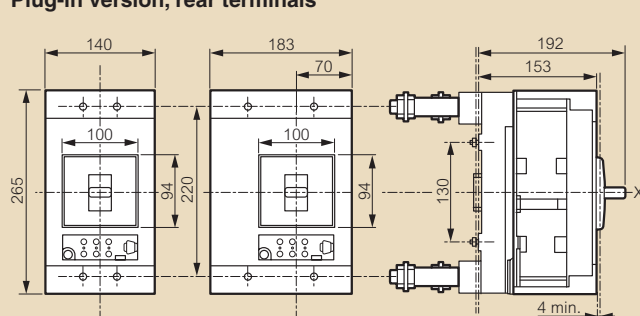
Fixed version with earth leakage module mounted underneath



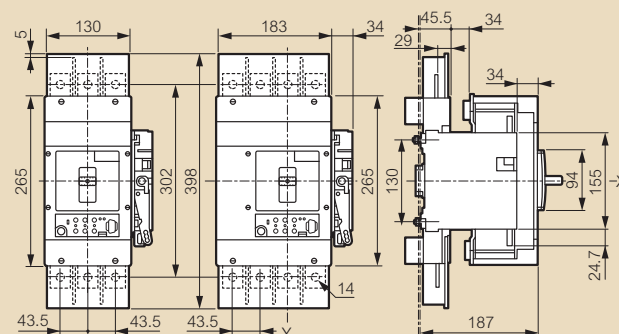
Plug-in version, front terminals



Plug-in version, rear terminals

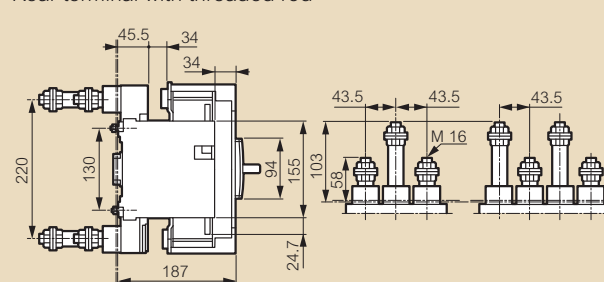


Draw-out version, front terminals

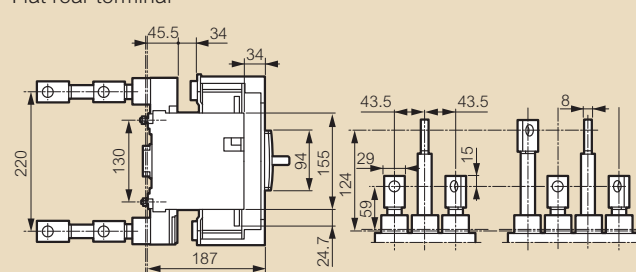


Draw-out version, rear terminals

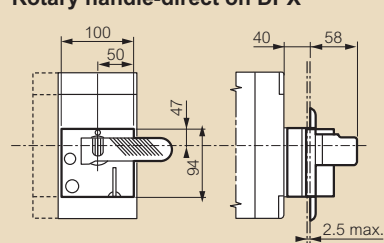
Rear terminal with threaded rod



Flat rear terminal



Rotary handle-direct on DPX

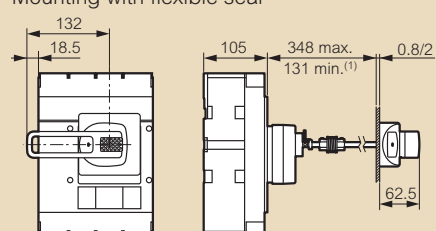


Terminal shields

	A
DPX 630	390
DPX 630 + earth leakage module	542

Rotary handle-vari-depth handle on door

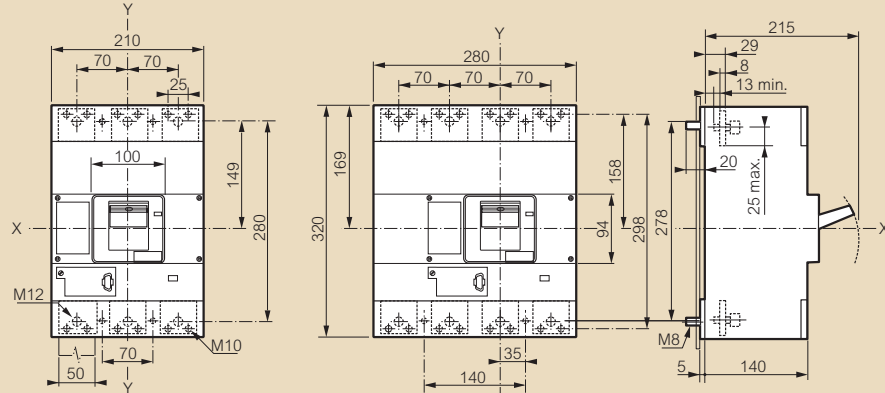
Mounting with flexible seal



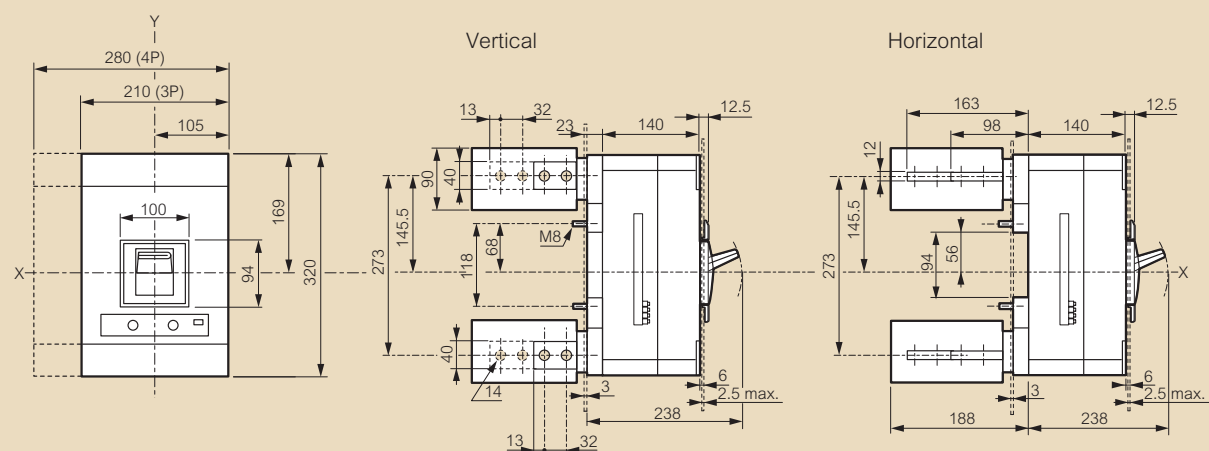
(1) 75 mm without mechanical system

■ Dimensions

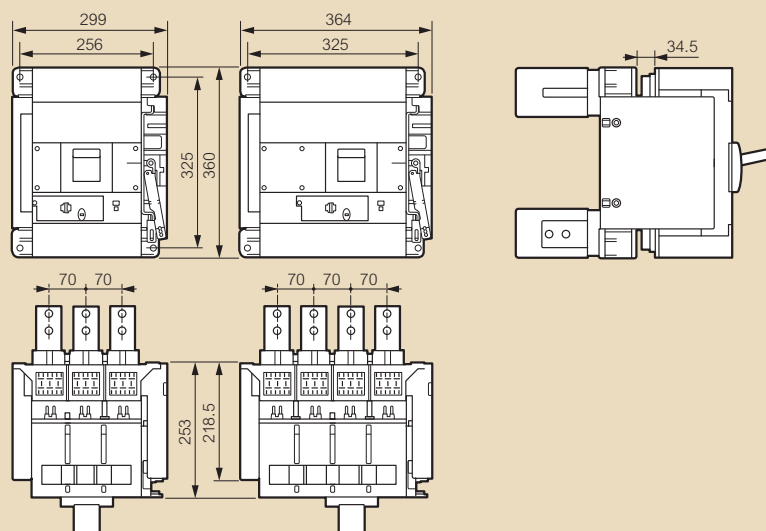
Fixed version, front terminals



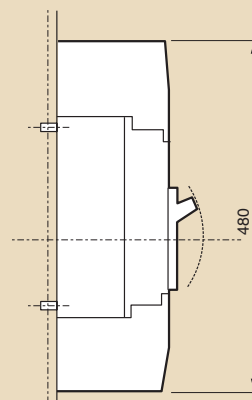
Fixed version, rear terminals



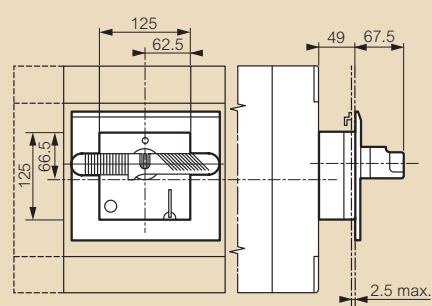
Draw-out version, rear terminals



Terminal shields

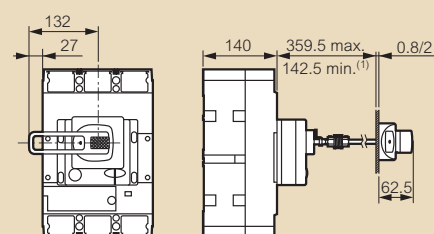


Rotary handle-direct on DPX



Rotary handle-vari-depth handle on door

Mounting with flexible seal

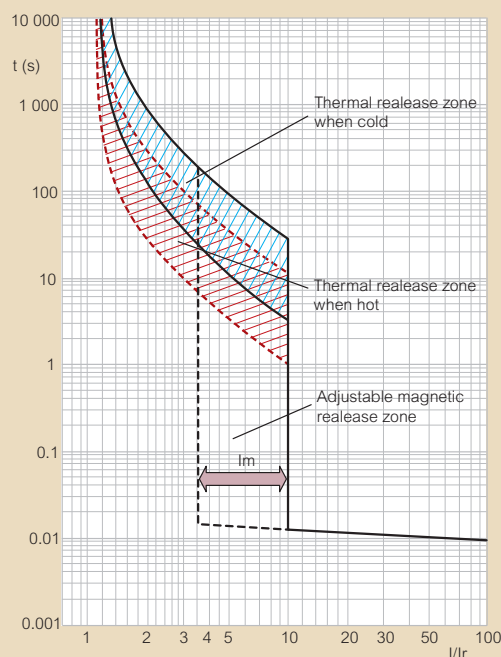


(1) 75 mm without mechanical system

DPX™

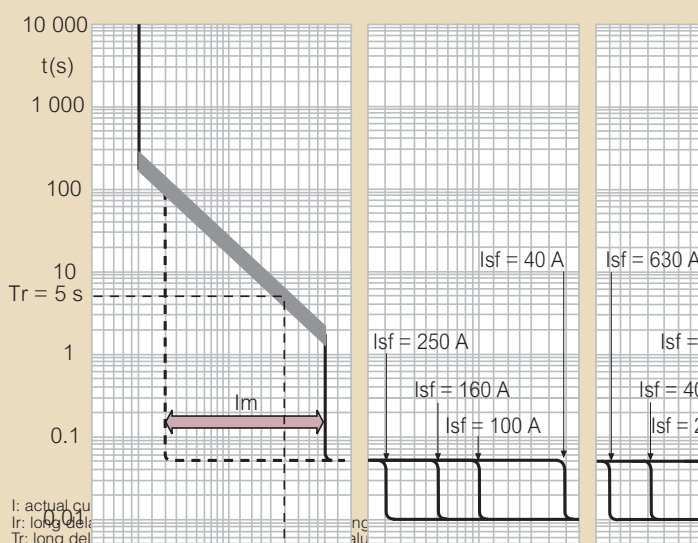
Reading DPX characteristic curves and adjustment ranges

■ Tripping curve for a DPX thermal-magnetic trip



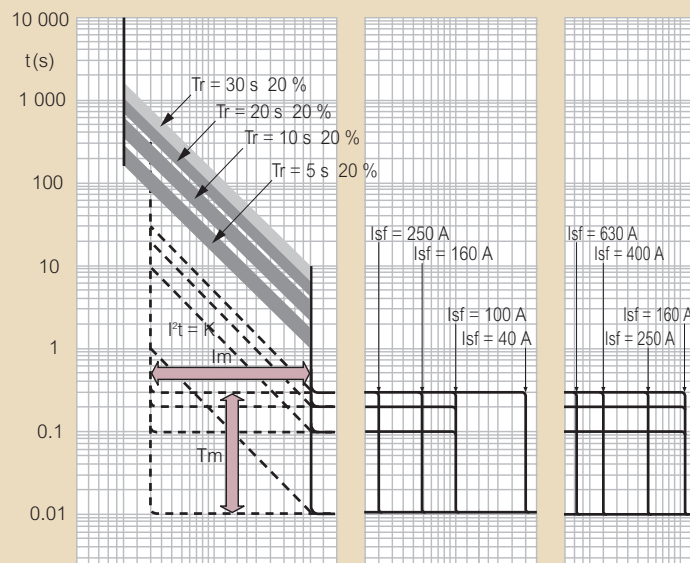
I: actual current
Ir: thermal protection against overloads (setting: $I_r = x I_n$)
Im: magnetic protection against short-circuits (setting: $I_m = x I_n$ or $I_m = x I_r$)
As the abscissa of the curves represents the ratio I/I_r , modifying the setting of I_r will not change the graphical representation of the thermal trip. However, the magnetic setting can be read directly (between 3.5 and 10 in the example).

■ Tripping curve for a DPX electronic release S1, adjustable I_r and I_m



I: actual current
Ir: long delay protection against overloads (setting: $I_r = x I_n$)
Tr: long delay protection operation time (fixed value: 0.1 s)
Im: short delay protection against short-circuits (setting: $I_m = x I_r$, between 1.5 and 10 I_r in the example)
Tm: short delay protection operation time (fixed value: 0.1 s)
If: fixed threshold instantaneous protection (4 to 20 kA depending on model)

■ Tripping curve for a DPX electronic release S2, adjustable I_r , I_m , T_r and T_m



I: actual current
Ir: long delay protection against overloads (setting: $I_r = x I_n$)
Tr: long delay protection operation time (fixed value: 5 to 30 s)
Im: short delay protection against short-circuits (setting: $I_m = x I_r$, between 1.5 and 10 I_r in the example)
Tm: short delay protection operation time (setting: 0 to 0.3 s)
If: fixed threshold instantaneous protection (4 to 20 kA depending on model)

■ Adjustment for thermal-magnetic DPX

Setting	DPX 125	DPX 160 DPX 250 ER	DPX 250	DPX 630	DPX 1250
Ir overload trip threshold (thermal)	0.7 to 1 I_n	0.64 to 1 I_n	0.64 to 1 I_n	0.8 to 1 I_n	0.8 to 1 I_n
Im short-circuit trip threshold (magnetic)	fixed: 10 I_n (100 and 125 rating)	fixed: 10 I_n	3.5 to 10 I_n	5 to 10 I_n	5 to 10 I_n

■ Adjustment for DPX electronic release

Setting	DPX 250 / 630 / 1600 S1	DPX 250 / 630 / 1600 S2
Ir overload trip threshold (long delay)	0.4 - 0.5 - 0.6 - 0.7 - 0.8 - 0.9 - 0.95 - 1 $x I_n$	
Tr long delay trip time	fixed: 5 s (to 6 Ir)	5 - 10 - 20 - 30 s (to 6 Ir)
Im short-circuit trip threshold (short delay)	(1.5 - 2 - 3 - 4 - 5 - 6 - 8 - 10) $x I_r^{(1)}$	
Tm Short delay trip time	fixed: 0.05 s	0 - 0.1 - 0.2 - 0.3 s

(1) 7.9 I_r for DPX 630 I_n 630 A

Selectivity table DPX™ / DPX™ thermal-magnetic

■ Limits of selectivity (three phase circuit at 400 V)

Downstream MCCB	DPX	Upstream MCCB																							
		DPX 125 (16 kA)				DPX 160 (25 kA)				DPX 250ER (25 kA)				DPX 250				DPX 630				DPX 1250			
		DPX 125 (25 kA)				DPX 160 (36 kA)				DPX 250ER (36 kA)				DPX-H 250				DPX-H 630				DPX-H 1250			
	In (A)	40	63	100	125	63	100	160	250	63	100	160	250	250	320	400	500	630	800	1000	1250				
DPX	Ist. (kA)	0.8	0.95	1.25	1.25	0.63	1	1.6	2.5	0.63	1	1.6	2.5	2.5	3.2	4	5	6.3	8	6	7.5				
DPX 125 (16 kA)	16	0.8	1	1.2	1.2	0.63	1	1.6	2.5	0.63	1	1.6	2.5	6	6	6	6	8	T	T	T				
	25	0.8	1	1.2	1.2		1	1.6	2.5		1	1.6	2.5	6	6	6	6	8	T	T	T				
	40		1	1.2	1.2		1	1.6	2.5		1	1.6	2.5	6	6	6	6	8	T	T	T				
	63			1.2	1.2			1.6	2.5			1.6	2.5	6	6	6	6	8	T	T	T				
	100							1.6	2.5			1.6	2.5	4	4	4	6	8	T	T	T				
	125							1.6	2.5			1.6	2.5	4	4	4	6	8	T	T	T				
DPX 125 (25 kA)	16	0.8	1	1.2	1.2	0.63	1	1.6	2.5	0.63	1	1.6	2.5	6	6	6	6	8	16	16	16				
	25	0.8	1	1.2	1.2		1	1.6	2.5		1	1.6	2.5	6	6	6	6	8	16	16	16				
	40		1	1.2	1.2		1	1.6	2.5		1	1.6	2.5	6	6	6	6	8	16	16	16				
	63			1.2	1.2			1.6	2.5			1.6	2.5	6	6	6	6	8	16	16	16				
	100							1.6	2.5			1.6	2.5	4	4	4	6	8	16	16	16				
	125							1.6	2.5			1.6	2.5	4	4	4	6	8	16	16	16				
DPX 125 (36 kA)	16	0.8	1	1.2	1.2	0.63	1	1.6	2.5	0.63	1	1.6	2.5	6	6	6	6	8	16	16	16				
	25	0.8	1	1.2	1.2		1	1.6	2.5		1	1.6	2.5	6	6	6	6	8	16	16	16				
	40		1	1.2	1.2		1	1.6	2.5		1	1.6	2.5	6	6	6	6	8	16	16	16				
	63			1.2	1.2			1.6	2.5			1.6	2.5	6	6	6	6	8	16	16	16				
	100							1.6	2.5			1.6	2.5	4	4	4	6	8	16	16	16				
	125							1.6	2.5			1.6	2.5	4	4	4	6	8	16	16	16				
DPX 160 DPX 250ER (25 kA)	63						1	1.6	2.5		1	1.6	2.5	2.5	3.2	4	5	6.3	16	16	16				
	100							1.6	2.5			1.6	2.5	2.5	3.2	4	5	6.3	16	16	16				
	160								2.5				2.5	2.5	3.2	4	5	6.3	16	16	16				
	250														3.2	4	5	6.3	16	16	16				
DPX 160 DPX 250ER (36 kA)	63						1	1.6	2.5		1	1.6	2.5	2.5	3.2	4	5	6.3	16	16	16				
	100							1.6	2.5			1.6	2.5	2.5	3.2	4	5	6.3	16	16	16				
	160								2.5				2.5	2.5	3.2	4	5	6.3	16	16	16				
	250														3.2	4	5	6.3	16	16	16				
DPX 160 DPX 250ER (50 kA)	40					0.63	1	1.6	2.5	0.63	1	1.6	2.5	2.5	3.2	4	5	6.3	16	16	16				
	63						1	1.6	2.5		1	1.6	2.5	2.5	3.2	4	5	6.3	16	16	16				
	100							1.6	2.5			1.6	2.5	2.5	3.2	4	5	6.3	16	16	16				
	160								2.5				2.5	2.5	3.2	4	5	6.3	16	16	16				
DPX 250 (36 kA)	250														3.2	4	5	6.3	16	16	16				
	40														2.5	3.2	4	5	6.3	16	16	16			
	63										1	1.6	2.5	2.5	3.2	4	5	6.3	16	16	16				
	100											1.6	2.5	2.5	3.2	4	5	6.3	16	16	16				
	160												2.5	2.5	3.2	4	5	6.3	16	16	16				
DPX 250 S1/S2 (36 kA)	250															3.2	4	5	6.3	16	16	16			
	40															3.2	4	5	6.3	16	16	16			
	100															3.2	4	5	6.3	16	16	16			
	160															3.2	4	5	6.3	16	16	16			
DPX-H/L 250 (70/100 kA)	40									0.63	1	1.6	2.5	2.5	3.2	4	5	6.3	16	16	16				
	63										1	1.6	2.5	2.5	3.2	4	5	6.3	16	16	16				
	100											1.6	2.5	2.5	3.2	4	5	6.3	16	16	16				
	160												2.5	2.5	3.2	4	5	6.3	16	16	16				
DPX-H/L 250 S1/S2 (70/100 kA)	250															3.2	4	5	6.3	16	16	16			
	40															3.2	4	5	6.3	16	16	16			
	100															3.2	4	5	6.3	16	16	16			
	160															3.2	4	5	6.3	16	16	16			
DPX 630 (36 kA)	250																								
	320																								
	400																	5	6.3	10	6	7.5			
	500																		6.3	10	6	7.5			
	630																			10	6	7.5			
DPX-H/L 630 (70/100 kA)	250														3.2	4	5	6.3	10	10	10				
	320															4	5	6.3	10	10	10				
	400																5	6.3	10	6	7.5				
	500																	6.3	10	6	7.5				
	630																			10	6	7.5			
DPX 630 S1/S2 (36 kA) ⁽¹⁾	250																		6.3	8	6	8			
	400																		6.3	8	6	8			
	630																			8	6	8			
DPX-H/L 630 S1/S2 (70/100 kA) ⁽¹⁾	400																		6.3	8	6	8			
	630																			8	6	8			
DPX 1250 (50 kA)	800																								
	1000																							7.5	
	1250																							7.5	
DPX-H 1250 (70 kA)	800																							7.5	7.5
	1000																							7.5	
	1250																							7.5	

(1) Selectivity low

Notes

This image shows a full page of blank, lined paper. It features approximately 28 horizontal blue or grey lines spaced evenly apart, typical of notebook paper. The lines extend across the entire width of the page, leaving small margins at the top and bottom. There are no vertical lines, text, or other markings on the page.

DPX™ / DPX™ electronic S1/S2 selectivity table

■ Limits of selectivity low (three-phase circuit at 400 V)

Downstream MCCB	DPX	Upstream MCCB electronic SEL: LOW										
		DPX 250 S1/S2 (36 kA)				DPX 600 S1/S2 (36 kA)			DPX/DPX-H 1600 S1 (50/70 kA)	DPX/DPX-H 1600 S2 (50/70 kA)	DPX/DPX-H 1600 S1,S2 (50/70 kA)	
		DPX-H 250 S1/S2 (70 kA)				DPX-H 630 S1/S2 (70 kA)						
	In (A)	40	100	160	250	250	400	630	800	800	1250	1600
DPX	Ist. (kA)	3.5	3.5	3.5	3.5	5	5	5	10	10	15	20
DPX 125 (16 kA)	16	3.5	3.5	3.5	3.5	8	8	8	T	T	T	T
	25	3.5	3.5	3.5	3.5	8	8	8	T	T	T	T
	40		3.5	3.5	3.5	6	6	6	T	T	T	T
	63		3.5	3.5	3.5	6	6	6	T	T	T	T
	100			3.5	3.5	6	6	6	T	T	T	T
	125			3.5	3.5	6	6	6	T	T	T	T
DPX 125 (25 kA)	16	3.5	3.5	3.5	3.5	8	8	8	T	T	T	T
	25	3.5	3.5	3.5	3.5	8	8	8	T	T	T	T
	40		3.5	3.5	3.5	6	6	6	T	T	T	T
	63		3.5	3.5	3.5	6	6	6	T	T	T	T
	100			3.5	3.5	6	6	6	T	T	T	T
	125			3.5	3.5	6	6	6	T	T	T	T
DPX 125 (36 kA)	16	3.5	3.5	3.5	3.5	8	8	8	25	T	T	T
	25	3.5	3.5	3.5	3.5	8	8	8	25	T	T	T
	40		3.5	3.5	3.5	6	6	6	25	T	T	T
	63		3.5	3.5	3.5	6	6	6	25	T	T	T
	100			3.5	3.5	6	6	6	25	T	T	T
	125			3.5	3.5	6	6	6	25	T	T	T
DPX 160 DPX 250ER (25 kA)	63		3.5	3.5	3.5	6	6	6	20	T	T	T
	100			3.5	3.5	6	6	6	20	T	T	T
	160				3.5	6	6	6	20	T	T	T
	250					6	6	6	20	T	T	T
DPX 160 DPX 250ER (36 kA)	63		3.5	3.5	3.5	6	6	6	20	T	T	T
	100			3.5	3.5	6	6	6	20	T	T	T
	160				3.5	6	6	6	20	T	T	T
	250					6	6	6	20	T	T	T
DPX 160 DPX 250ER (50 kA)	40		3.5	3.5	3.5	8	8	8	20	T	T	T
	63		3.5	3.5	3.5	6	6	6	20	T	T	T
	100			3.5	3.5	6	6	6	20	T	T	T
	160				3.5	6	6	6	20	T	T	T
DPX 250 (36 kA)	250					6	6	6	20	T	T	T
	40		3.5	3.5	3.5	8	8	8	20	T	T	T
	63		3.5	3.5	3.5	8	8	8	20	T	T	T
	100			3.5	3.5	8	8	8	20	T	T	T
	160				3.5	8	8	8	20	T	T	T
	250					6	6	6	20	T	T	T
DPX 250 S1/S2 (36 kA)	40		1	1.6	2.5	8	8	8	20	T	T	T
	100			1.6	2.5	6	6	6	20	T	T	T
	160				2.5	6	8	8	20	T	T	T
	250					6	6	6	20	T	T	T
DPX-H 250 (70 kA)	40		3.5	3.5	3.5	8	8	8	20	30	30	36
	63		3.5	3.5	3.5	8	8	8	20	30	30	36
	100			3.5	3.5	8	8	8	20	30	30	36
	160				3.5	8	8	8	20	30	30	36
	250					6	6	6	20	30	30	36
DPX-H 250 S1/S2 (70 kA)	40		1	1.6	2.5	8	8	8	20	30	30	36
	100			1.6	2.5	6	6	6	20	30	30	36
	160				2.5	6	6	6	20	30	30	36
	250					6	6	6	20	30	30	36
DPX 630 (36 kA)	250					6	6	6	15	20	20	T
	400						6	6	15	20	20	T
	500								10	20	20	T
	630								10	20	20	T
DPX-H 630 (70 kA)	250					6	6	6	15	20	20	36
	320					6	6	6	15	20	20	36
	400						6	6	15	20	20	36
	500								10	20	20	36
DPX 630 S1/S2 (36 kA) ⁽¹⁾	630								10	20	20	36
	250					5	5	5	15	20	20	T
	400						5	5	15	20	20	T
DPX-H 630 S1/S2 (70 kA) ⁽¹⁾	630								15	20	20	36
	800								15	20	20	36
DPX 1250 (50 kA)	1000										20	20
	1250										20	20
	1250										20	20
DPX-H 1250 (70 kA)	500								15	20	20	20
	630								15	20	20	20
	800										20	20
	1000										20	20
DPX/DPX-H 1600 S1 (50/70 kA) ⁽¹⁾	1250											20
	1600											20
DPX/DPX-H 1600 S2 (50/70 kA) ⁽¹⁾	800										15	20
DPX/DPX-H 1600 S1/S2 (50/70 kA) ⁽¹⁾	1250											20

(1) Selectivity low

Limits of selectivity high (three phase circuit at 400 V)

Downstream MCCB	DPX	Upstream MCCB electronic SEL: HIGH										
		DPX 250 S1/S2 (36 kA)				DPX 630 S1/S2 (36 kA)			DPX/DPX-H 1600 S1 (50/70 kA)	DPX/DPX-H 1600 S2 (50/70 kA)	DPX/DPX-H 1600 S1,S2 (50/70 kA)	
		DPX-H 250 S1/S2 (70 kA)				DPX-H 630 S1/S2 (70 kA)					1250	1600
	In (A)	40	100	160	250	250	400	630	800	800	1250	1600
DPX	Ist. (kA)	3.5	3.5	3.5	3.5	5	5	5	10	10	15	20
DPX 125 (16 kA)	16	T	T	T	T	T	T	T	T	T	T	T
	25	T	T	T	T	T	T	T	T	T	T	T
	40		T	T	T	T	T	T	T	T	T	T
	63		T	T	T	T	T	T	T	T	T	T
	100			T	T	T	T	T	T	T	T	T
	125			T	T	T	T	T	T	T	T	T
DPX 125 (25 kA)	16	T	T	T	T	T	T	T	T	T	T	T
	25	T	T	T	T	T	T	T	T	T	T	T
	40		T	T	T	T	T	T	T	T	T	T
	63		T	T	T	T	T	T	T	T	T	T
	100			T	T	T	T	T	T	T	T	T
	125			T	T	T	T	T	T	T	T	T
DPX 125 (36 kA)	16	25	25	25	25	T	T	T	T	T	T	T
	25	25	25	25	25	T	T	T	T	T	T	T
	40		25	25	25	T	T	T	T	T	T	T
	63		25	25	25	T	T	T	T	T	T	T
	100			25	25	T	T	T	T	T	T	T
	125			25	25	T	T	T	T	T	T	T
DPX 160 DPX 250ER (25 kA)	63		25	25	25	T	T	T	T	T	T	T
	100			25	25	T	T	T	T	T	T	T
	160				25	T	T	T	T	T	T	T
DPX 160 DPX 250ER (36 kA)	63		25	25	25	T	T	T	T	T	T	T
	100			25	25	T	T	T	T	T	T	T
	160				25	T	T	T	T	T	T	T
	250					T	T	T	T	T	T	T
DPX 160 DPX 250ER (50 kA)	40		25	25	25	36	36	36	36	36	36	36
	63		25	25	25	36	36	36	36	36	36	36
	100			25	25	36	36	36	36	36	36	36
	160				25	36	36	36	36	36	36	36
	250						36	36	36	36	36	36
DPX 250 (36 kA)	40		36	36	36	T	T	T	T	T	T	T
	63		36	36	36	T	T	T	T	T	T	T
	100			36	36	T	T	T	T	T	T	T
	160				36	T	T	T	T	T	T	T
	250						T	T	T	T	T	T
DPX 250 S1/S2 (36 kA)	40		T	T	T	T	T	T	T	T	T	T
	100			T	T	T	T	T	T	T	T	T
	160				T	T	T	T	T	T	T	T
	250						T	T	T	T	T	T
DPX-H 250 (70 kA)	40		36	36	36	36	36	36	36	36	36	36
	63		36	36	36	36	36	36	36	36	36	36
	100			36	36	36	36	36	36	36	36	36
	160				36	36	36	36	36	36	36	36
	250						36	36	36	36	36	36
DPX-H 250 S1/S2 (70 kA)	40					36	36	36	36	36	36	36
	100					36	36	36	36	36	36	36
	160					36	36	36	36	36	36	36
	250						36	36	36	36	36	36
DPX 630 (36 kA)	250								T	T	T	T
	400								T	T	T	T
	500								T	T	T	T
	630								T	T	T	T
DPX-H 630 (70 kA)	250						25	25	36	36	36	36
	320						25	25	36	36	36	36
	400							25	36	36	36	36
	500							25	36	36	36	36
	630								36	36	36	36
DPX-H 630 S1/S2 (36 kA) ⁽¹⁾	250								T ⁽¹⁾	T ⁽¹⁾	T ⁽¹⁾	T ⁽¹⁾
	400								T ⁽¹⁾	T ⁽¹⁾	T ⁽¹⁾	T ⁽¹⁾
	630								T ⁽¹⁾	T ⁽¹⁾	T ⁽¹⁾	T ⁽¹⁾
DPX 630 S1/S2 (70 kA) ⁽¹⁾	400						25		36	36 ⁽¹⁾	36 ⁽¹⁾	36 ⁽¹⁾
	630								36	36 ⁽¹⁾	36 ⁽¹⁾	36 ⁽¹⁾
DPX 1250 (50 kA)	800										36	36
	1000										36	36
	1250											36
DPX-H 1250 (70 kA)	500								36	36	36	36
	630								36	36	36	36
	800										36	36
	1000										36	36
	1250											36
DPX/DPX-H 1600 S1 (50/70 kA) ⁽¹⁾	800										36	36
DPX/DPX-H 1600 S2 (50/70 kA) ⁽¹⁾	800										36 ⁽¹⁾	36 ⁽¹⁾
DPX/DPX-H 1600 S1/S2 (50/70 kA) ⁽¹⁾	1250											36 ⁽¹⁾
	1600											

(1) Selectivity low

For S2 tripping unit possibility of logic selectivity (total selectivity)

Some items sold separately
For pack quantity, please refer to numerical index pages
For trade price, please see your local HPM Legrand representative for the current price list

MCCBs/MCBs selectivity tables

Downstream MCBs	Upstream MCBs												
	In	DPX 125 (16 kA) DPX 125 (25 kA) DPX 125 (36 kA)						DPX 160 (25 kA) DPX 160 (36 kA) DPX 160 (50 kA)			DPX 250 ER (25 kA) DPX 250 ER (36 kA) DPX 250 ER (50 kA)		
		16 A	25 A	40 A	63 A	100 A	125 A	63 A	100 A	160 A	100 A	160 A	250 A
LR 6000 DX 6000 6 kA DX 6000 10 kA DX-H 10000 25 kA⁽¹⁾ B and C curves	1 A	T	T	T	T	T	T	T	T	T	T	T	T
	2 A	T	T	T	T	T	T	T	T	T	T	T	T
	3 A	T	T	T	T	T	T	T	T	T	T	T	T
	4 A	T	T	T	T	T	T	T	T	T	T	T	T
	6 A	6000	6000	6000	6000	T	T	T	T	T	T	T	T
	10 A	5000	5000	5000	5000	7500	7500	7500	7000	T	T	T	T
	16 A		4000	4000	4000	6000	6000	6000	6000	T	T	T	T
	20 A		3000	3000	3000	5000	5000	5000	5000	T	8000	T	T
	25 A			3000	3000	4500	4000	4500	4500	8500	6000	8500	T
	32 A				2000	4000	4000	4000	4000	7000	5000	7000	T
	40 A				2000	3000	3000	3000	3000	6000	4000	6000	T
	50 A					3000	3000	3000	3000	5500	4000	5500	7000
	63 A					3000	3000	3000	3000	5000	3000	5000	6000
	80 A						2000	2000	2000	5000	2500	5000	6000
	100 A									4000		4000	5000
	125 A									2000		2000	3000
DX-D 6000	1 A			T	T	T	T	T	T	T	T	T	T
	2 A			T	T	T	T	T	T	T	T	T	T
	3 A			T	T	T	T	T	T	T	T	T	T
	6 A			6000	6000	T	T	T	T	T	T	T	T
	10 A			5000	5000	7500	7500	7500	7500	T	T	T	T
	16 A			4000	4000	6000	6000	6000	6000	T	6000	T	T
	20 A			3000	3000	5000	5000	5000	5000	T	6000	T	T
	25 A			3000	3000	4500	4500	4500	4500	8500	5500	8500	T
	32 A				2000	4000	4000	4000	4000	7000	4500	7000	T
	40 A				2000	3000	3000	3000	3000	6000	4500	6000	T
	50 A					3000	3000	3000	3000	5500	3500	5500	T
	63 A					3000	3000	3000	3000	5000	3500	5000	6000
	80 A						1500			4000		4000	5000
	100 A									3000		3000	4000
	125 A									1500		1500	2000
DX-L 50 kA C curve	10 A							T	T	T	T	T	T
	16 A							T	T	T	T	T	T
	20 A							20000	20000	T	22000	T	T
	25 A							15000	15000	T	18000	T	T
	32 A							10000	10000	20000	13000	T	T
	40 A							7000	7000	17000	8000	20000	20000
	50 A							3000	3000	8000	4000	10000	20000
	63 A							3000	3000	8000	4000	10000	15000

T: total selectivity, up to downstream circuit breaker breaking capacity according to IEC 60947-2
 (1) For breaking capacity of DX-H MCBs, according to IEC 60947-2 (see p. 75)

■ Upstream fuse

MCCBs downstream	gG type		
	250 A	400 A	1000 A
DPX 125	7500		
DPX 160		10000	
DPX 250 ER		10000	
DPX 250		10000	
DPX 630			50000

	DPX 250 (36 kA) DPX-H 250 (70 kA)					DPX 630 (36 kA) DPX-H 630 (70 kA)			DPX 1250/1600 (50 kA) DPX-H 1250/1600 (70 kA)		
	40 A	63 A	100 A	160 A	250 A	250 A	400 A	630 A	800 A	1000 A	1250 A
	T	T	T	T	T	T	T	T	T	T	T
	T	T	T	T	T	T	T	T	T	T	T
	T	T	T	T	T	T	T	T	T	T	T
	T	T	T	T	T	T	T	T	T	T	T
	6000	6000	T	T	T	T	T	T	T	T	T
	5000	5000	T	T	T	T	T	T	T	T	T
	4000	4000	T	T	T	T	T	T	T	T	T
	4000	4000	8000	T	T	T	T	T	T	T	T
	3000	3000	6000	T	T	T	T	T	T	T	T
		2000	5000	T	T	T	T	T	T	T	T
			5000	T	T	T	T	T	T	T	T
			4000	8000	T	T	T	T	T	T	T
			4000	8000	T	T	T	T	T	T	T
				8000	T	T	T	T	T	T	T
				7500	T	T	T	T	T	T	T
				3000	8000	T	T	T	T	T	T
		T	T	T	T	T	T	T	T	T	T
		T	T	T	T	T	T	T	T	T	T
		T	T	T	T	T	T	T	T	T	T
		6000	T	T	T	T	T	T	T	T	T
		5000	T	T	T	T	T	T	T	T	T
		4000	T	T	T	T	T	T	T	T	T
		4000	8000	T	T	T	T	T	T	T	T
		3000	6000	T	T	T	T	T	T	T	T
		2000	5000	T	T	T	T	T	T	T	T
		2000	5000	T	T	T	T	T	T	T	T
			4000	8000	T	T	T	T	T	T	T
			4000	8000	T	T	T	T	T	T	T
				7000	T	T	T	T	T	T	T
				6500	T	T	T	T	T	T	T
				2000	7000	T	T	T	T	T	T
		T	T	T	T	T	T	T	T	T	T
			40000	T	T	T	T	T	T	T	T
			33000	T	T	T	T	T	T	T	T
			28000	T	T	T	T	T	T	T	T
			20000	T	T	T	T	T	T	T	T
			13000	T	T	T	T	T	T	T	T
			8000	20000	T	T	T	T	T	T	T
			8000	20000	T	T	T	T	T	T	T

Back up between MCCBs and MCBs (in kA)

■ In 3 phases networks + N 400/415 V according to IEC 60947-2

		MCBs/MCCBs upstream										
		DX-H ^[10000] - 25 kA B and C curves		DX-L		DPX-E 125	DPX 125	DPX/ DPX-H 160	DPX 250 ER			
MCBs downstream		2 to 32 A	40 to 125 A	10 to 32 A	40 to 63 A	16 to 125 A	16 to 125 A	25 to 160 A	63 A	100 A	160 A	250 A
DX ^[6000] - 10 kA B and C curves	1 to 20 A	25 ⁽¹⁾	12.5	50	25	16	25	25	25	25	25	25
	25 A	25 ⁽¹⁾	12.5	50	25	16	25	25	25	25	25	25
	32 A		12.5		25	16	25	25	25	25	25	25
	40 A		12.5		25	16	25	25	25	25	25	25
	50 A				25	16	25	20	25	25	20	20
	63 A					16	25	15		20	15	15
	80 A						20	25			20	20
	100 A						20	25			20	20
	125 A							25			15	15
DX-H ^[10000] - 25 kA B and C curves DX ^[6000] - 15 kA D curve	1 to 16 A			50	25	16	25	25	25	25	25	25
	20 A			50	25	16	25	20	25	25	25	25
	25 A				25	16	25	15	25	25	25	25
	32 A				25	16	25	20	25	25	25	25
	40 A				25	16	25	20	25	25	25	25
	50 A				25	16	25	15	25	25	20	20
	63 A					16	25	25	25	20	15	15
DX-L - 50 kA C curve	10 to 63 A			50	50			50	50	50	50	50

(1) The breaking capacity value of DX-H 25 A and 32 A is 25 kA, only when DX-H MCB is backed-up by an upstream DX-L or DPX MCCB (3 back-up levels)
In any other situation the breaking capacity values of DX-H are 20 kA for DX-H 25 A and 15 kA for DX-H 32 A (see p. 75)

■ In 3 phases networks + N 230/240 V according to IEC 60947-2

		MCBs/MCCBs upstream												
		DX-H ^[10000] - 25 kA B and C curves			DX-L		DPX-E 125	DPX 125	DPX/ DPX-H 160	DPX 250 ER				
MCBs downstream		2 to 32 A	40 to 63 A	80 to 125 A	10 to 32 A	40 to 63 A	16 to 125 A	16 to 125 A	25 to 160 A	63 A	100 A	160 A	250 A	
DX ^[6000] - 10 kA B and C curves	1 to 20 A	50	25	20	50	25	22	35	35	50	50	50	50	
	32 & 40 A		25	20		25	22	35	35	50	50	50	50	
	50 A					25	16	25	25	36	36	36	36	
	63 A						16	25	15		30	30	30	
	80 A						16	25	25		25	25	25	
	100 A						16	25	25			25	25	
	125 A								25			25	25	
DX-H ^[10000] - 25 kA B and C curves DX ^[6000] - 15 kA D curve	1 to 40 A				50	25	22	35	35	50	50	50	50	
	50 A					25	16	25	25	36	36	36	36	
	63 A						16	25	25		30	30	30	
DX-L - 50 kA C curve	10 to 63 A				70	70			70	70	70	70	70	

TT or TN neutral earthing systems:

For a 230/400 V supply in order to determine the breaking capacity of a 2 P MCB used as L + N (230 V) downstream a 2 P or 4 P circuit breaker use values indicated in the table for 230/240 V

	DPX/H/L 250		DPX/H/L 630	DPX/H/L 630 electronic		DPX/H/L 1250	DPX/H/L 1600
	160 A	250 A	250 to 400 A	160 & 400 A	630 A	500 to 1250 A	800 to 1600 A
	25	25	25	25	25	25	25
	25	25	25	25	25	20	20
	25	25	25	25	25	15	15
	25	20	20	20	20	15	15
	20	15	15	15	15	12.5	12.5
	15	15	15	15	15	12.5	12.5
	20	20	20	20	15		
	20	20	20	20	15		
	15	15	15	15	10		
	25	25	25	25	25	25	25
	25	25	25	25	25	25	25
	25	25	25	25	25	20	20
	25	25	25	25	25	15	15
	25	20	20	20	20	15	15
	20	15	15	15	15	12.5	12.5
	15	15	15	15	15	12.5	12.5
	50	50	50	50	50	50	50

	DPX/H/L 250			DPX/H/L 630 electronic		DPX/H/L 1250	DPX/H/L 1600
	160 A	250 A	250 to 400 A	160 & 400 A	630 A	500 to 1250 A	800 to 1600 A
	50	50	50	50	50	50	50
	50	50	50	50	50	50	50
	36	30	30	30	25	25	25
	30	30	30	30	25	25	25
	25	25	25	25	20		
	25	25	25	25	20		
	25	25	25	25	20		
	50	50	50	50	50	50	50
	36	30	30	30	25	25	25
	30	30	30	30	25	25	25
	70	70	70	70		70	70

■ In 3 phases networks (+ N) 400/415 V according to IEC 60947-2

MCBs downstream		Fuses upstream gG type	
		20 to 32 A	63 to 160 A
DX [6000] - 10 kA C and D curves	1 A to 40 A	100	100
	50 A to 125 A		100
DX-H [10000] - 25 kA B and C curves	2 A to 40 A	100	100
	50 A to 63 A		100
DX-L - 50 kA C curve	10 A to 40 A	100	100
	50 A to 63 A		100

■ In 3 phases networks (+ N) 230/240 V according to IEC 60947-2

MCBs downstream		Fuses upstream gG type	
		20 to 50 A	63 to 160 A
DX [6000] - 10 kA C and D curves	1 A to 40 A	100	100
	50 A to 125 A		100
DX-H [10000] - 25 kA B and C curves	2 A to 40 A	100	100
	50 A to 63 A		100
DX-L - 50 kA C curve	10 A to 40 A	100	100
	50 A to 63 A		100

Electrical energy metering



146 61



146 65



047 79

Pack Cat. No. Analogue metering devices - panel mounting

		Ammeters
		Measure the intensity in amperes (A) of the current Connected via a 0 - 5 A output current transformer (CT) To be fitted with a measuring dial appropriate for the current to be measured
1	146 01	Square barrel 68 x 68 mm
		Measuring dial for ammeters
		Supplied by set of 2 (1 for round barrel, 1 for square barrel)
1	146 10	0 - 50 A
1	146 13	0 - 100 A
1	146 15	0 - 200 A
1	146 16	0 - 250 A
1	146 17	0 - 300 A
1	146 18	0 - 400 A
1	146 20	0 - 600 A
1	146 21	0 - 800 A
1	146 22	0 - 1000 A
1	146 66	0 - 1250 A
1	146 24	0 - 1500 A
1	146 25	0 - 2000 A
1	146 26	0 - 2500 A
1	146 28	0 - 4000 A
		Voltmeters
		Measure the voltage in volts (V) AC ou DC Scale: 0 - 500 V
1	146 61	Square barrel 68 x 68 mm
		Digital central measuring units
		Enables via a 0 - 5 A output current transformer (CT), measuring electrical values for low voltage applications
		Multi-function centrals
		For measuring: current and voltage per phase, frequency, power factor, active and reactive energy...
		Adapts to 3-phase balanced or unbalanced supplies with or without neutral
		Max. measurement: 8000 A 220 V
1	146 65	Standard
1	146 67	Communicating Modbus/JBUS Data speed transmission: 1200 to 9600 Bauds

Pack Cat. No. Current transformers (CT)

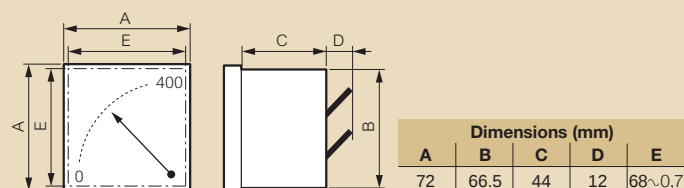
		Used with ammeters, electricity meters and central measuring units Supply a current of 0 to 5 A to the secondary which is proportional to the primary current Can be fixed on plate, on rail 4 EN 60715, on bars Secondary joining with terminals for lugs, cage terminals Precision class: 1 %
		Single phase CT for bar 16 x 12.5 mm and cable Ø21 mm
		Transformation ratio Power (VA)
1	046 31	50/5 1.25
1	046 34	100/5 2.5
1	046 36	200/5 5.5
		Single phase CT for bar 20.5 x 12.5 and 30 x 10.5 mm and cable Ø23 mm
1	047 75	300/5 11
		Single phase CT for bar 40.5 x 10.5 mm and cable Ø35 mm
1	046 38	400/5 12
		Single phase CT for bar 65 x 32 mm
1	047 76	600/5 12
1	047 77	800/5 15
1	047 78	1000/5 20
		Single phase CT for bar 84 x 34 mm
1	047 79	1250/5 15
		Single phase CT for bar 127 x 38 mm
1	046 45	1500/5 15
1	046 46	2000/5 20
		Single phase CT for bar 127 x 54 mm
1	047 80	2500/5 50
1	046 48	4000/5 50

Electrical energy metering on door

■ Analogue metering devices

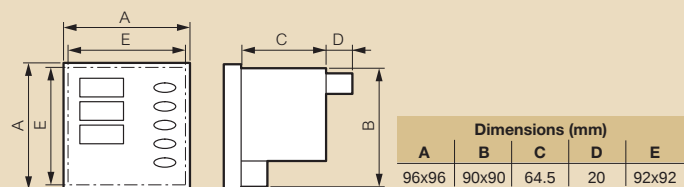
Frequency: 50/60 Hz
 Precision class: 1.5 %
 Operating temperature: - 10° C to + 40° C
 Storage temperature: - 20° C to + 80° C
 Consumption:
 ammeter: 1.1 VA
 voltmeter: 3 VA
 Connection capacity: 2 x 2.5 mm² with screws or
 Conform to IEC 60051, VDE 0410, BS 89,
 EN 60051-1, cenelec HD 223

Cat. No. 146 01/61



■ Digital central measuring units

- Precision class:
 voltage: ~ 0.5 %
 current: ~ 0.5 %
 power: ~ 1.5 %
 power factor: ~ 2 %
 frequency: ~ 0.15 Hz
 Active energy: class 2
 Reactive energy: class 3
- Consumption:
 voltage: 0.5 VA / phase
 current: 0.75 VA / phase
- Auxiliary power supply:
 single-phase voltage 230 V (196 to 253 V)
 frequency 50 Hz (47 to 63 Hz)
 self consumption 6 VA - 3.5 W

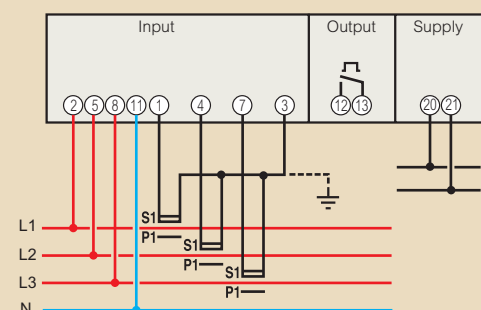


Output:

Energy pulse duration = 100 ms via volt free contact:

- for 5 A, 1 pulse/Wh
 - from 20 to 150 A, 1 pulse/10 Wh
 - from 200 to 1600 A, 1 pulse/100 Wh
 - from 2000 to 8000 A, 1 pulse/kWh
- Breaking capacity 110 V ~ / - 50 mA

4-wire connection - 3 CT:



■ Current transformer

Degree of protection: IP 20

Frequency: 50/60 Hz

Dimensions

		Opening for cable Ø max. (mm)	Opening for bar width x th. (mm)	Fixing center for fixing on plate (mm)
Single phase CT				
CT 50/5 100/5 200/5		Ø21	16 x 12.5	on rail EN 50022
CT 300/5		Ø23	20.5 x 12.5 25.5 x 11.5 30.5 x 10.5	50 x 45
CT 400/5		Ø35	40.5 x 10.5	54 x 45
CT 600/5 800/5 1000/5		-	65 x 32	fix on bar
CT 1250/5		-	84 x 34	fix on bar
CT 1500/5 CT 2000/5		-	127 x 38	fix on bar
CT 2500/5 4000/5		-	127 x 54	fix on bar

Electrical energy metering on rail



046 81



046 72



046 74



046 65



Dimensions (p. 100)

Measure the electrical energy consumed by a single phase or 3-phase circuit downstream of the metering of energy distributor
Provide a clear display of the consumption in kWh
Class I precision for energy active for Cat. No. 046 73 and 046 74 in accordance with IEC 62053-21/23
Class II precision for energy active for Cat. No. 046 81 and 046 72 in accordance with IEC 62053-21/23 (with a sealable box)

Pack	Cat. No.	Single phase meters	Number of modules
1	046 81	Direct connection Power supply: 230 V~ - 50/60 Hz Without pulse transmitter Up to 32 A Display: LCD screens 6 digits including 1 decimal place 1 unit = 0.1 kWh Partial counting with reset With pulse transmitter Up to 63 A Display: LCD screen 6 digits including 1 decimal place 1 unit: 0.1 kWh Partial counting with reset With pulse transmitter to feed back remote electronic energy consumption pulse output: 1 imp/10 Wh	2
1	046 72	3-phase meters Display: LCD screen 8 digits, 1 unit: 0.01 kWh With pulse transmitter to feed back remote electrical energy consumption measurements via volt-free contact Partial counting with reset Direct connection Up to 63 A per phase Power supply: - 230 V~ - 50/60 Hz (3 phase) - 400 V~ - 50/60 Hz (3 phase + N) Programmable pulse output: 1 x 200 ms pulse every 1 kWh (default value) Connection via a 0 - 5 A current transformer (CT) Power supply: - 230 V~ - 50/60 Hz (3 phase + N) - 400 V~ - 50/60 Hz (3 phase + N) Programmable pulse output: 1 x 200 ms pulse every 1 kWh (default value) Current transformation ratio: 50/5 to 8000/5	4

Pack	Cat. No.	Central measuring units
1	046 65	Multi-function centrals Measure via a 0 - 5 A output current transformer (CT), electrical values for low voltage applications: For measuring current per phase, phase-to-phase voltage, frequency, power factor, instantaneous power (active, reactive, apparent), active and reactive energy Adapt to 3-phase balanced or unbalanced supplies with or without neutral 220 V - max. measurement: 8000 A Standard Communicating Modbus/JBUS Data speed transmission: 1200 to 9600 Bauds
1	046 67	

Multi-function central unit

Technical characteristics

Display:

3 green LED displays with manual selection:

- Current per phase
- Phase-to-phase voltage
- Phase voltage
- Instantaneous power: active, reactive and apparent
- Frequency and power factor (inductive/capacitive indication)
- Active energy

Unit of measurement: display according to the CT ratios

Automatic change of rating

Energy metering: totalling 9 digits in kWh, resolution 10 Wh

Input:

Voltage measurement consumption < 1 VA per phase

Current measurement consumption < 0.5 VA per phase

Auxiliary power supply:

Voltage 230 V single phase (+/- 10%)

Frequency 50 Hz (47 to 63 Hz)

Consumption < 6 VA - 3.5 W

Output:

Energy pulse: duration > 100 ms

Via volt free contact

Connection

3 or 4-wire connection - 3 CT

Isolating switches

Selection chart

VISTOP VISIBLE LOAD BREAK SWITCHES

Rating (A)	Black handle			
	Front handle		Side handle	
	3 P	4 P	3 P	4 P
63	225 12	225 15	225 16	225 18
100	225 20	225 22	225 25	225 27
125	225 34	225 39	225 44	225 46
160	225 51	225 53	225 54	225 56



DPX-IS VISIBLE LOAD BREAK SWITCHES

Rating (A)	Without release					
	Front handle		Right-hand side handle		Left-hand side handle	
	3 P	4 P	3 P	4 P	3 P	4 P
160	266 02		266 12		266 22	
250	266 03	266 07	266 13	266 17	266 23	266 27
400	266 60	266 62	266 64	266 66	266 68	266 70
630	266 61	266 63	266 65	266 67	266 69	266 71
800	265 91	265 95	with release			
1 000	265 92	265 96	with release			
1 250	265 93	265 97	with release			
1 600	265 94	265 98	with release			



DPX-I TRIP-FREE SWITCHES

Rating (A)	Devices	3 P
125	DPX-I 125	250 98
160	DPX-I 160	251 98
250	DPX-I 250 ER	252 98
250	DPX-I 250	253 98
400	DPX-I 630	255 86
630	DPX-I 630	255 88
800	DPX-I 1 600	257 94
1 250	DPX-I 1 600	257 96
1 600	DPX-I 1 600	257 98



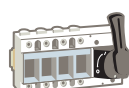
DX-IS ISOLATING SWITCHES

Rating (A)	Without release			
	1 P	2 P	3 P	4 P
16	043 01	043 21		
20	043 02	043 22	043 42	043 62
32	043 05	043 25	043 45	043 65
40	043 07	043 27	043 47	043 67
63	043 10	043 30	043 50	043 70
100	043 14	043 34	043 54	043 74
125		043 38	043 58	043 78



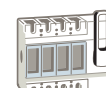
DX-IS

- Isolation with positive contact indication from 16 to 125 A
- Tripping version (common DX auxiliaries)
- Red handle: main device
- Faulty contact indicator
- Fixing on rail



VISTOP

- Isolation with visible contact indication from 63 to 160 A
- Fixing on rail or on plate
- External reversible side handle or front handle



DPX-IS

- Isolation with visible contact indication from 160 to 1 600 A
- Fixing on rail or on plate up to 250 A. Above 250 A, fix on plate
- Tripping version (common DPX auxiliaries)

DPX-I 125 to 1 600 A

Trip-free switches



250 98



255 88

Conform to IEC 60947-3
Category of use AC 23 A
Can be associated to earth leakage modules or to corresponding DPX residual current relays
Mount on rail 2 up to DPX 250 ER
Connection identical to corresponding DPX

Pack Cat.No DPX-I 125

Pack	Cat.No	In
1	3P 250 98	125 A

DPX-I 250 ER

Pack	Cat.No	In
1	3P 251 98	160 A

DPX-I 250 ER

Pack	Cat.No	In
1	3P 252 96	160 A
1	3P 252 98	250 A

DPX-I 250

Pack	Cat.No	In
1	3P 253 98	250 A

DPX-I 630

Pack	Cat.No	In
1	3P 255 86	400 A
1	3P 255 88	630 A

DPX-I 1 600

Pack	Cat.No	In
1	3P 257 96	1 250 A
1	3P 257 98	1 600 A

Vistop™ isolating switches

63 to 160A



225 15



225 18

Safety isolating switches with visible breaking of load and positive action of the contacts

Double breaking of the phases by self-cleaning snap open/close action contacts

Label holders for identification of the circuits

Connection via cage terminals tightened by Allen key (except 63 A ; by PZ 2 screws)

Screw-fixing or fixing on EN 50022 rail (only on rail for 63 A Vistop)

Two versions for mounting on faceplate:

- With left or right external side handle with seal to maintain the IP protection (up to IP 55), mounting accessories, self-adhesive drilling template, adjustable extension rod (30 to 170 mm)

- With direct or external front handle with Cat. No. 227 32 to be ordered separately

Possibility of attaching a 2-pole - 16 A auxiliary isolating switch Cat. No. 227 22, or one or two N/C + N/O auxiliary Cat. No. 227 04/07

Pack	Cat. No.		63 to 160A	
	Front handle	Side handle	63 A	No of 17.5 mm modules
1	225 12	225 16	3-pole	7
1	225 15	225 18	4-pole	7
			100 A	
1	225 20	225 25	3-pole	7.5
1	225 22	225 27	4-pole	9
			125 A	
1	225 34	225 44	3-pole	7.5
1	225 39	225 46	4-pole	9
			160 A	
1	225 51	225 54	3-pole	7.5
1	225 53	225 56	4-pole	9

Vistop™ accessories

for load break isolating switches Up to 160A

Pack Cat. No. Auxiliary contacts

Pack	Cat. No.	Auxiliary contacts
1	227 04	Set of 2 auxiliary switches for on/off signalling 5A/250V
1	227 07	Single pole auxiliary from 63A to 160A (1NO + 1NC)
		Additional contact from 63A to 160A (2NO + 2NC)

Door interlock facilities

Pack	Cat. No.	Door interlock facilities
1	227 32	Extension shaft door interlock For 63/100/125A /160 Vistop

Sealable terminal shields

Pack	Cat. No.	Sealable terminal shields
1	227 98	Set of 2 separate, sealable terminal shields Clip on upstream and/or downstream of Vistop 100 to 160 A
1	227 22	2P 16A Contact (Switch module) for Vistop 100/125/160A

Vistop™ 63 to 160 A

Isolating switch rail mounting

Conform to standards NF C 63-130, NF EN 60947-3, IEC 60947-3, BS EN 60947-3, VDE 0660, NBN EN 60947-3, CNOMO E03 - 15-611 R, Veritas approved

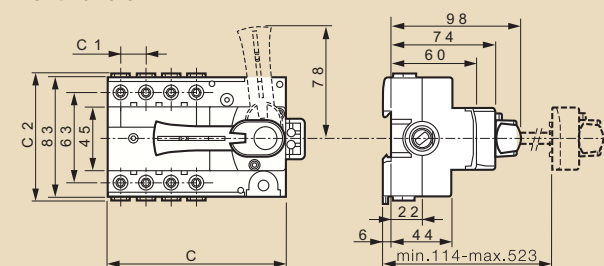
Version with red handle/yellow front plate conforms to standards NF C 79-130, VDE 0113, IEC 60204-1, EN 60204

Glass fibre reinforced insulating casing, self-extinguishing at 960° C (IEC NF EN 60695-2-1)

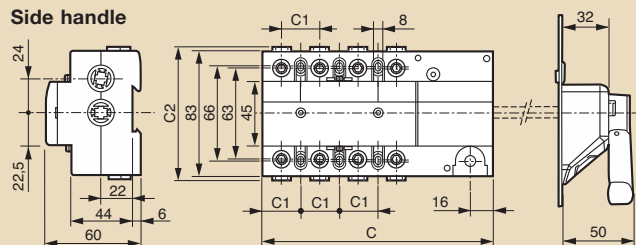
Handle can be padlocked in open position using 1-3 padlocks Ø 6 mm Vistop™ 63 to 160 A - visible contact indication

Accept auxiliary contacts N/C + N/O (cat. No 227 04/07) 1 or 2 (side handle)

Front handle

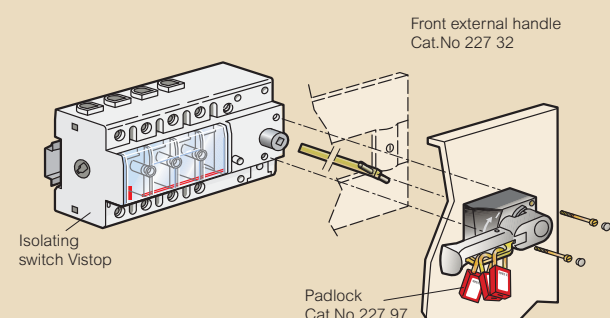


Side handle



	Front handle			External side handle		
	63 A	100 A, 125 A, 160 A		63 A	100 A, 125 A, 160 A	
	3 and 4-pole	3P	4 P	3 and 4-pole	3 P	4 P
C	125	133	160	125	133	160
C ₁	17.7	26.7		17.7	26.7	
C ₂	90	91		90	91	

■ Example of mounting with Vistop 100 to 160 A



- (1) Test according to IEC 60947-3
AC 22 A / DC 22 A: resistive motor breaking
AC 23 A / DC 23 A: inductive motor breaking
- (2) 32 A (20 kW) for AC 22 A
20 A (14 kW) for AC 23 A
- (3) No of breaking contacts: 2
- (4) 100 A (aM) with blade type cartridge fuses

Electrical characteristics

Thermal rating (Ith)	63 A	100 A	125 A	160 A
Terminals	cage	cage	cage	cage
Conne- tion	Cu (flexible) 4 to 35 ²		4 to 50 mm ²	
	Cu (rigid) 4 to 50 ²		4 to 70 mm ²	
Insulating voltage (U _i)	690 V~	800 V~	800 V~	800 V~
Impulse resistant voltage (U _{imp})	8 kV	8 kV	8 kV	8 kV
AC 22 A AC 23 A ⁽¹⁾	400 V 63 A (35 kW) 500 V 63 A (44 kW) 690 V 40 A (38 kW)	100 A (55 kW) 100 A (69 kW) 100 A (96 kW)	125 A (70 kW) 125 A (87 kW) 125 A (120 kW)	160 A (88 kW) 160 A (110 kW) 125 A (120 kW)
DC 22 A/250 V ^{(1) (2) +}	63	125	125	16 A
DC 23 A/250 V ^{(1) (2) +}	63	125	125	10 A
Breaking capacity (I _{cu}) (kA peak)	15	15	15	15
1 s resistant current (I _{cw}) (kA rms)	2,5	3,5	3,5	3,5
I _{cc} with fuses (kA rms)	100	100	100	80
Fuse rupture capacity	63 A	100 A (gG) 63 A (aM) ⁽³⁾	125 A (gG) 125 A (aM) ⁽³⁾	160 A (gG) 125 A (aM)
Short circuit capacity (I _{cs}) (kA prospective peak)	7	12	12	12
Mechanical endurance (No of operations)	> 30 000	> 30 000	> 30 000	> 30 000
Index of Protection	IP 2x B (IP 3x C under frontplates)			IP 2x B (IP 3x C under frontplate) from 10 mm ²

- (1) Test conditions accordance with IEC 60947-3
AC = alternating current. DC = direct current. A = for frequent switching
AC 22 A/DC 22 A : resistive motor breaking
AC 23 A/DC 23 A : inductive motor breaking
- (2) N° of breaking contacts: 2
- (3) 100 A (aM) with blade type cartridge fuses
- (4) Values correspond to the device mounted on Vistop 100 - 125 - 160 A
- (5) Early break type of "AC"

DPX™-IS 250 isolating switches

160 to 250 A



266 07



266 17



262 39

Isolating switches for on-load circuit breaking by visible isolation and positive action of the contacts

Padlock integrated in the handle

Connection with cage terminals

Supplied with terminal shields

Conform to IEC 60947-3

Category of use AC 23 A

Accept the same electrical auxiliaries as the DPX (p. 29)

Pack	Cat. No.		DPX-IS without release
	3P	4P	
1	266 02		Front handle
1	266 03	266 07	160 A
			250 A
			Right-hand side handle
1	266 12		160 A
1	266 13	266 17	250 A
			Left-hand side handle
1	266 22		160 A
1	266 23	266 27	250 A

Pack	Cat. No.		Mounting on rail
1		262 39	Rail 4 fixing plate
			For mounting DPX-IS 250

Pack	Cat. No.		Rotary handles
			Vari-depth handle IP 55
			Comprising: connecting rod, bracket, self-adhesive drilling template, fixing accessories (seal to maintain the IP protection up to IP 55, door lock mechanism)
1		266 86	For front and side handle device
Pack	Cat. No.		Accessories
			Cage terminals
1		262 88 ⁽¹⁾	Set of 4
			For cable 185 mm ² (rigid) or 150 mm ² (flexible) for DPX 250 ER and DPX-IS 250
			Spreaders
1		273 22	Set of upstream and downstream spreaders
			Rear terminals
			Used to convert the fixed version with front terminals to the fixed version with rear terminals
1		265 10	Set of upstream and downstream terminals
			Terminal shields
1		262 87	Set of 2
1		262 99	Rail height spacer fits on Din Rail used to mount on the same row DX and DPX/DPX-IS

(1) Can not be mounted on side by side mounted earth leakage modules 160 A

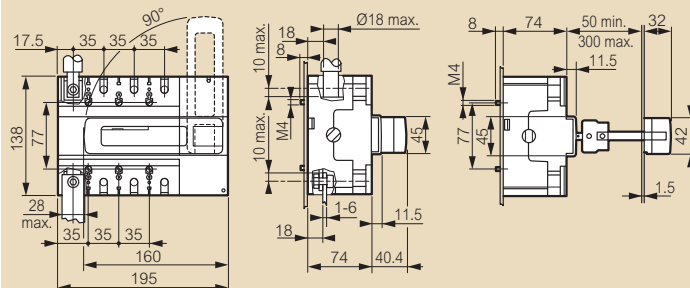
DPX™-IS 250 isolating switches

■ Electrical characteristics

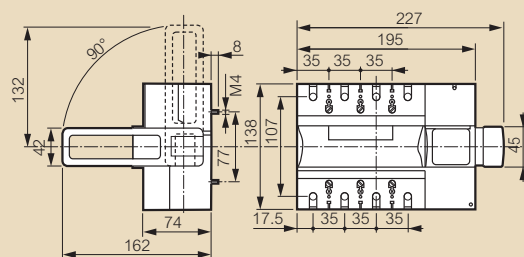
Rating		160 A	250 A
Connection	Cu flexible	150 mm ²	
	Cu rigid / Alu	185 mm ²	
Copper bar		Width max. 28 mm	
Nominal rating (Ue)		690 V~ - 250 V	
Rated insulation voltage (Ui)		800 V~	
Rated impulse withstand voltage (Uimp)		8 kV~	
AC 23 A	400 V~	160 A	250 A
	690 V~	160 A	160 A
AC 22 A	400 V~	160 A	250 A
	690 V~	160 A	160 A
Short-circuit making capacity (kA efficient) (Icm)		40 kA	
I admissible Is (Icw)		12 kA efficient	
I admissible with fuse (Icc)		100 kA efficient	
Max. rating of fuse	gG	160 A	250 A
	aM	160 A	160 A
Rated closing capacity on short circuit (kA peak) (Icm)		40 kA	
Endurance	mechanical	25000 operations	
	electrical (AC 23 - 400 V~)	2500 operations	
Index of protection		IP 20 front panel	

■ Dimensions

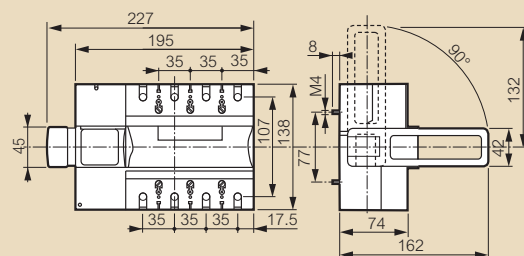
Front handle



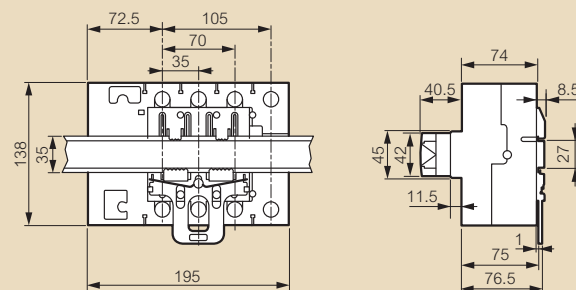
Right lateral handle



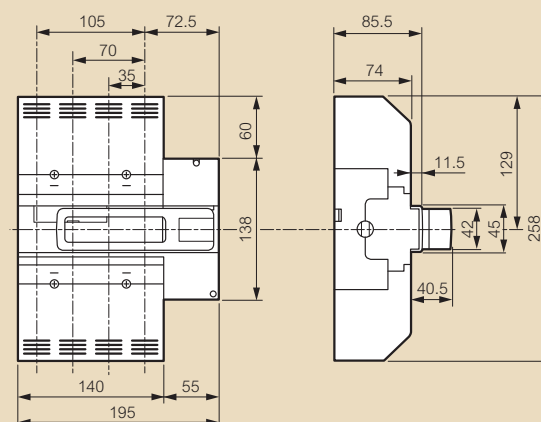
Left lateral handle



Mounted on rail Din

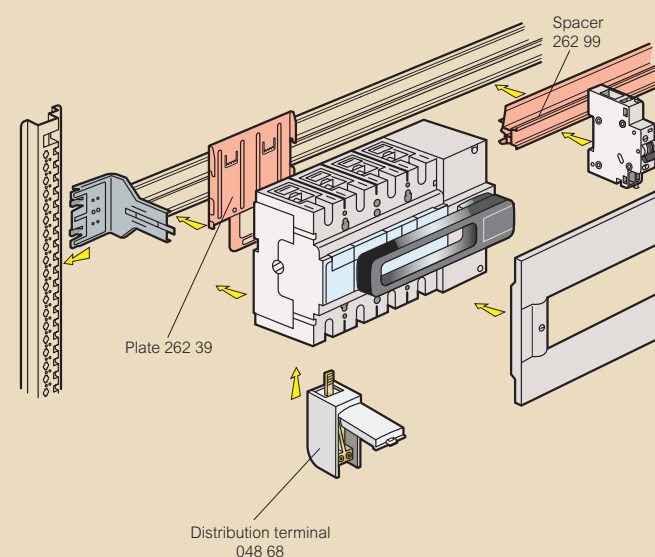


With terminal shields



■ Mounting

Mounted on rail with plate



DPX™-IS 630 isolating switches

400 to 630 A



266 62



266 70



262 50

Isolating switches for on-load circuit breaking by visible isolation and positive action of the contacts
 Padlock integrated in the handle
 Supplied with terminal shields, and cage terminals
 Conform to IEC 60947-3
 Category of use AC 23 A
 Accept the same electrical auxiliaries as the DPX (p. 29)

Pack	Cat. No.		DPX-IS without release
	3P	4P	
1	266 60	266 62	Front handle
1	266 61	266 63	400 A
			630 A
			Right-hand side handle
1	266 64	266 66	400 A
1	266 65	266 67	630 A
			Left-hand side handle
1	266 68	266 70	400 A
1	266 69	266 71	630 A
			Rotary handles
			Comprising: connecting rod, bracket, self-adhesive drilling template, fixing accessories (seal to maintain the IP protection up to IP 55, door lock mechanism)
1	266 86		For front and side handle device

Pack	Cat. No.		Accessories
1	262 50		Cage terminals
			Set of 4 terminals for cable 300 mm ² max.(rigid) or 240 mm ² max.(flexible)
	3P	4P	Spreaders
1	262 48	262 49	Set of incoming or outgoing spreaders
			Rear terminals
			Used to convert the fixed version with front terminals to the fixed version with rear
1	263 50	263 51	Set of incoming and outgoing swivel rear terminals
1	263 52	263 53	Set of incoming and outgoing flat rear terminals
			Sealable terminal shields
1	262 45		Set of 2
			Padlock
1	266 97		For locking mechanism in open position
			Ronis

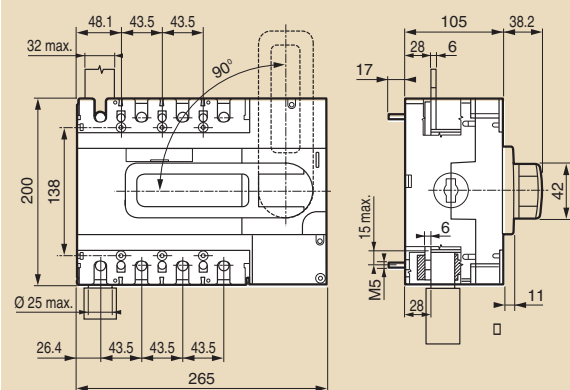
DPX-IS™ 630

Technical characteristics

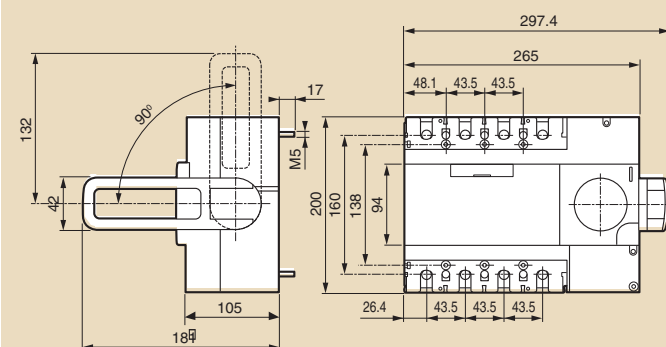
Rating	400 A	630 A
Terminals	cage	
Connection	Cu flexible 1 x 240 or 2 x 185 mm ² Cu rigid 1 x 240 or 2 x 185 mm ²	
Copper bar	Width max 32 mm	
Nominal Rating (Ue)	690 V ac	
Rated insulation voltage (Ui)	800 V ac	
Rated impulse withstand voltage (Uimp)	8 kV ac	
	400 V ac	630 A
AC 23 A	500 V ac	630 A
	690 V ac	630 A
AC 22 A	690 V ac	630 A
I admissible Is (Icw)	20 kA RMS	
I admissible with fuse (ka efficient) (Icc)	100 kA	
Max. rating of fuse gG	400 A	630 A
Max. rating of fuse aM	400 A	630 A
Short-circuit making capacity (kA efficient) (Icm)	40 kA	
Mechanical endurance	15 000 operations	
Electrical endurance (AC 23 400 V ac)	1 500 operations	
Index of protection	IP 20 front panel	

Dimensions

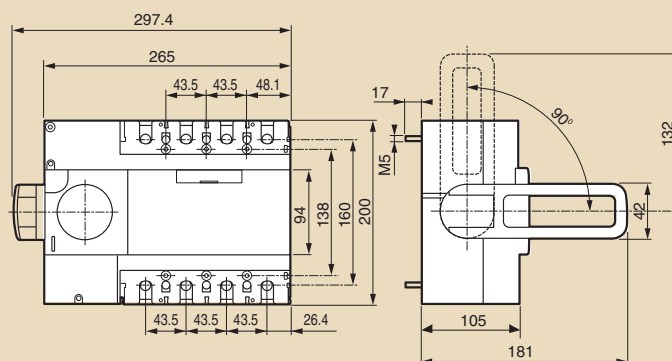
Front handle



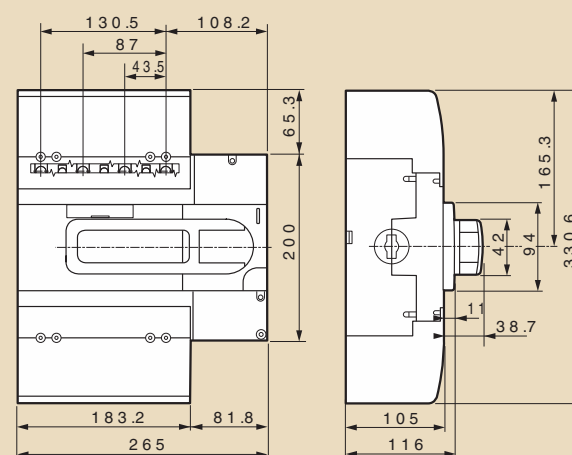
Right lateral handle



Left lateral handle



Front handle with terminal shields



DPX-IS 1 600

800 to 1 600 A



265 98



262 65

Isolating switches for on-load circuit breaking by visible isolation and positive action of the contacts
Connection with cage terminals
Padlock integrated in the handle
Supplied with terminal shields
Conform to IEC 60947-3
Category of use AC 23 A

Pack	Cat. No.	DPX-IS with release
		Supplied without shunt release Can be associated with a residual current relay with separate coil
		Front handle
1	265 91	800 A
1	265 92	1 000 A
1	265 93	1 250 A
1	265 94	1 600 A

Pack	Cat. No.	Mounting accessories
		Sealable terminal shields
1	262 64	Set of 2 short terminal shields
		Insulation shields
1	262 66	Used to isolate the connections between each pole Set of 3 insulation shields

Pack	Cat. No.	Connection accessories
		Cage terminals
1	262 69	Set of 1 terminal for cables 2 x 240 mm ² max. (rigid) or 2 x 185 mm ² max. (flexible)
1	262 70	Set of terminal for cables 4 x 240 mm ² max. (rigid) or 4 x 185 mm ² max. (flexible)
		Spreaders
		For increasing the distance between each pole to be connected
1	262 73	Set of upstream or downstream spreaders
		Rear terminals
		Set of 6 (or 8) rear terminals, upstream or downstream
1	263 80	Short terminals
1	263 81	Long terminals
		Extended front terminals
1	262 67	Short terminals
1	262 68	Long terminals

Common auxiliaries to DPX (p. 29)

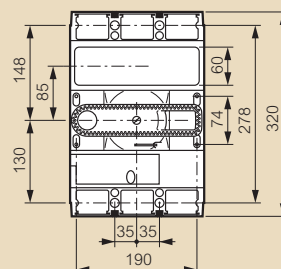
DPX-IS 1 600 isolating switches

Electrical characteristics

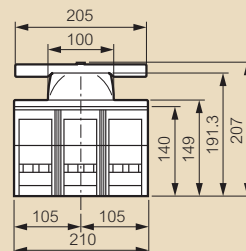
Rating		800 A	1 000 A	1 250 A	1 600 A
Connection	Cu flexible	2 x 185 mm ² or 4 x 185 mm ²			
	Cu rigide	2 x 240 mm ² or 4 x 240 mm ²			
	Alu	2 x 240 mm ² or 4 x 240 mm ²			
Copper bar		50 mm or 80 mm			
Nominal rating (Ue)		690 V±			
Rated insulation voltage (Ui)		690 V±			
Rated impulse withstand voltage (Uimp)		8 kV±			
AC 23 A	400 V±	800 A	1 000 A	1 250 A	1 600 A
	500 V±	800 A	1 000 A	1 250 A	1 600 A
	690 V±	800 A	1 000 A	1 250 A	1 600 A
DC 23 A	250 V±	800 A	1 000 A	1 250 A	1 600 A
I admissible is for 1s (Icw)		20 kA RMS			
I admissible with fuse (Icc)		100 kA RMS			
Max. rating of fuse		800 A	1 000 A	1 250 A	1 600 A
Short-circuit making capacity (kA peak) (Icm)		40 kA			
Mechanical endurance		10 000			
Electrical endurance (AC 23 A - 400 V~)		3 000	3 000	2 000	2 000
Index of protection		IP 20 front panel			

Dimensions

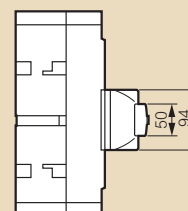
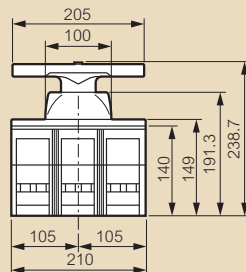
3P



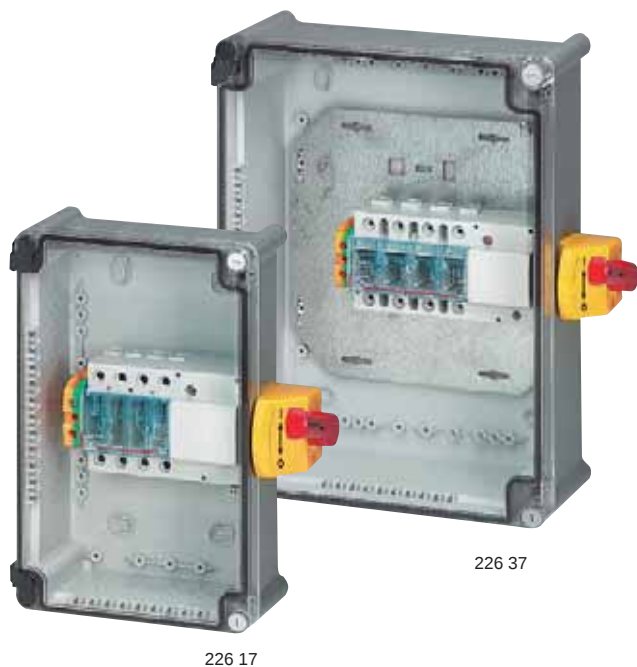
Without handle extension



With handle extension



Proximity switching 63 IP65



For on-load circuit breaking, isolation and locking in 0 position equipment located remotely

Applications:

- breaking of CMV (controlled mechanical ventilation) motors, fixed or moving machines, air-conditioners)

Can also be used as a:

- general switch
- emergency stop

Pack Cat. No. Full load switch units 63 to 160 A

		Comprising:		
		- IP 65 plastic box with transparent hinged cover equipped with a Vistop with side red handle, yellow front plate with N/C + N/O auxiliary contact		
		- earth terminal (Viking 3)		
		63 A - IK 07		
		Supplied with 2 cable glands 29P - ISO 32		
1	226 15	3P	cage terminals	50 mm ²
1	226 17	4P	50 mm ² flexible 70 mm ² rigid	50 mm ²
		100 A - IK 07		
		Supplied with 2 cable glands 36P - ISO 50		
1	226 25	3P	cage terminals	50 mm ²
1	226 27	4P	50 mm ² flexible 70 mm ² rigid	50 mm ²
		125 A - IK 07		
		Supplied with 2 cable glands 36P - ISO 50		
1	226 33	3P	cage terminals	50 mm ²
1	226 34	4P	50 mm ² flexible 70 mm ² rigid	50 mm ²
		160 A - IK 07		
		Supplied with 2 cable glands 36P - ISO 50		
1	226 35	3P	cage terminals	50 mm ²
1	226 37	4P	50 mm ² flexible 70 mm ² rigid	50 mm ²

Proximity switching 63 to 160 A

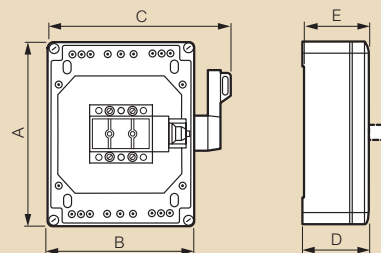
Full load switch units 63 to 160 A

Electrical characteristics

Identical to corresponding Vistop isolating switch

Switch units	Cat. No.	Characteristics
63 A	226 15/17	Vistop 63 A
100 A	226 25/27	Vistop 100 A
125 A	226 33/34	Vistop 125 A
160 A	226 35/37	Vistop 160 A

Dimensions



Cat. No.		A	B	C	D	E
226 15/17	63 A	290	190	263	95	102
226 25/27/33/34	100/125 A	332	262	316	132	132
226 35/37	160 A	382	292	346	132	132



Practical and completely safe



058 06

058 28



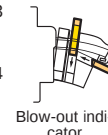
Dimensions (p. 100)

Conform to standard IEC 60269-2/2.1 and to NF C 63-210. Isolators conform to IEC 60947-3.
Icc: - 20 kA with 8.5 x 31.5 cartridge fuse
- 100 kA with 10 x 38 cartridge fuse
Fuse not supplied



Modular fuse carriers

Pack	Cat. No.	Cartridge dimensions (mm)	Voltage	Number of 17.5 mm modules
		Single pole		
10	058 06 ⁽¹⁾	8.5 x 32	400 V~	1
10	058 08	10 x 38	500 V~	1
		Single pole + neutral		
10	058 18	10 x 38	500 V~	1
		Double pole		
5	058 28	10 x 38	500 V~	2
		3-pole		
3	058 38	10 x 38	500 V~	3
		3-pole + neutral		
2	058 48	10 x 38	500 V~	4



Blow-out indicator

Accessories

10	057 90	Blow-out indicator 250 V~
1	057 96	Early break N/O + N/C contact auxiliary 5 A - 250 V~ (0.5 mod.)
3	057 99	Padlock support suitable for ø4mm padlocks

(1) Previously 8.5 x 31.5

- Each fuse carrier is designed to take:
 - a blow-out indicator
 - a padlock
- Cartridge totally visible
- Class II insulation along the entire length of the carrier

SP fuse carriers

With protected terminals



215 04

216 01

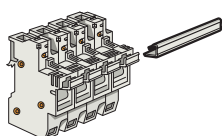
Conform to IEC 60269-2
Veritas approved
Height under front plate : 44 mm
3 rail mounting or panel mounting
IP2X - IP2XC under front plate

Pack	Cat. No.	SP 51 for HRC fuses 14 x 51	Connection	No of 17.5 mm modules
5	215 01	Single pole	1 x 35 mm ²	1.5
1	215 04	Triple pole	2 x 16 mm ²	4.5
SP 58 for HRC fuses 22 x 58				
3	216 01	Single pole 1 x 50 mm ²	2 or	6
1	216 04	Triple pole	2 x 25 mm ²	6
With 5 A - 250 V ~ changeover micro-switch				
Signalling and cut-out functions Supplied with 3 x 2.8 mm clips				
1	216 36	Triple pole	1 x 50 mm ² or 2 x 25 mm ²	6

Accessory

Link handle for association of single pole units

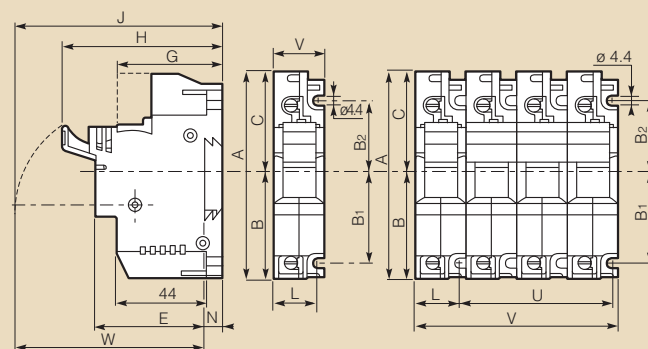
5	216 96	SP 51 or SP 58
		Length 300 mm
		Can be cut to required length
		HRC cartridge fuses



SP fuse carriers

With protected terminals

SP 51 and SP 58



In mm	A	B	B ₁	B ₂	C	E	G	H 1 P	H multi.	J 1 P
SP 51	106	54.5	45	35	51.5	55	53	81	84	96
SP 58	140	74	65	45	66	59	53	87	90	111

In mm	J multi.	L	N	U 2 P	U 3 P	U 4 P	V 1 P	V 2 P	V 3 P	V 4 P	W 1 P	W multi.
SP 51	99	20.7	9	26.5	53	79.5	26.5	53	79.5	106	87	90
SP 58	114	27	9	36	72	108	36	72	108	144	101	109

Choice of equipment

Type	Rated current	Maximum cartridge rating					
		400 V±		500 V±		690 V±	
		gG	aM	gG	aM	gG	aM
SP 51	50 A	50	50	50	40	25	25
SP 58	100 A (125 A in 400 V)	125	125	100	100	50	50

These values are standardised according to IEC 60269-2/2-1
They can be reduced under certain specific applications

Index of protection: IP 2X - IP 2XC - under casing

Equipment derating

Recommended for equipment exposed to high temperatures:

- Ambient temperature over 35° C: derate fuse by one rating per 10° C (UTE C 20-051 IEC 60943)
- Side-by-side equipment in simultaneous function

2 - 3 devices	0.9 x I _n
4 - 5 devices	0.8 x I _n
6 - 7 - 8 - 9 devices	0.7 x I _n
≥ 10 devices	0.6 x I _n

This coefficient is to be applied on the nominal rating of the base (IEC 60439-1)

- Uninterrupted usage: it may be necessary to upgrade the bases by one size

Domestic fuse carriers



Dimensions (p. 100)

With label-holders
With insulated carrier class II O, padlockable
Coupling via supply busbars
Shielded terminals capacity 2 x 10 mm²
Indicator to signal blown fuse with Cat. No. 057 90

Pack Cat. No. For domestic cylindrical cartridge fuses

		Conform to NF C 61-203 and IEC 60269-3/3.1 Fuse not supplied		
		Single pole For domestic cartridges	Cartridge dimensions (mm)	Number of 17.5 mm modules
10	058 10	10 A - 230 V~	8.5 x 23	1
10	058 11	16 A	10.3 x 25.8	1
10	058 12	20 A - 400 V~	8.5 x 31.5	1
10	058 13	25 A	10.3 x 31.5	1
10	058 14	32 A	10.3 x 38	1
		Single pole + neutral		
10	058 21	16 A - 230 V~	10.3 x 25.8	1
10	058 24	32 A - 400 V~	10.3 x 38	1
10	058 20	10 A - 230 V~	8.5 x 23	1
10	058 22	20 A - 400 V~	8.5 x 31.5	1

For miniature cylindrical cartridge fuses

To protect sensitive equipment:
transformers, electronic equipment, etc.
Conform to standard IEC 60127-6
Fuse not supplied (see opposite)

		Single pole	Cartridge dimensions (mm)	Voltage	Number of 17.5 mm modules
5	058 00		5 x 20	250 V~	1

Domestic cartridge fuses



Pack	Cat. No.	Miniature type 5 x 20			
		Instant reaction fuse - Ceramic body Conform to IEC 60127 - NF EN 60127 - VDE 0820-1 High rupture capacity (A) For use with dimmers, Viking terminals and emergency lighting units			
		Rating (Amps)	Voltage~ (Volts)	Rupture capacity (Amps)	
10	102 02	0.2			
10	102 05	0.5			
10	102 06	0.63			
10	102 10	1.0			
10	102 12	1.25			
10	102 16	1.6			
10	102 20	2.0	250	1500	
10	102 25	2.5			
10	102 30	3.15			
10	102 50	5.0			
10	102 63	6.3			
10	102 96 ⁽¹⁾	10.0	250	500	
		Cylindrical - without indicator			
		Rating (Amps)	Voltage~ (Volts)	Rupture capacity (Amps)	Protected section (mm²) Copper
		6.3 x 23			
10	103 06 ⁽¹⁾	6	230	6 000	1.5
		8.5 x 23			
10	113 02	2			
10	113 04	4			
10	113 06	6	230	6 000	1.5
10	113 10	10			
		10.3 x 25.8			
10	116 06 ⁽²⁾	6			
10	116 10 ⁽²⁾	10	230	6 000	2.5
10	116 16 ⁽²⁾	16			
		8.5 x 31.5			
10	123 01	1			
10	123 02	2			
10	123 04	4			
10	123 06	6			
10	123 08	8	400	20 000	2.5
10	123 10	10			
10	123 12	12			
10	123 16	16			
10	123 20	20			
		10.3 x 31.5			
10	126 16	16			
10	126 20	20	400	20 000	4
10	126 25	25			
		10.3 x 38			
10	133 32	32	400	20 000	6
		Neutral links			
10	123 00	8.5 x 31.5			
10	133 00	10 x 38			

(1) Overrating not described by standards

(2) Conform to BS 1361 (1971)

HRC cartridge fuses



Technical data and dimensions (p. 64 - 65)

Pack Cat. No. Cylindrical type gG

Conform to EN 60269-1, IEC 60269-1, and 2 Veritas approved 8 x 32 (previously 8.5 x 31.5)					
	Without indicator	Rating (Amps)	Voltage ~ (Volts)	Rupture capacity (Amps)	
10	123 01	1	400	20000	
10	123 02	2			
10	123 04	4			
10	123 06	6			
10/100	123 10	10			
10		10			
10/100	123 16	16			
10 x 38 HRC					
	Without indicator				
10	133 94	0.5	500	100000	
10	133 01	1			
10	133 02	2			
10	133 04	4			
10	133 06	6			
10	133 08	8			
10	133 10	10			
10	133 16	16			
10	133 20	20			
10	133 25	25			
14 x 51 HRC					
	Without striker				
10	143 02	2	500	100000	
10	143 04	4			
10	143 06	6			
10	143 10	10			
10	143 16	16			
10	143 20	20			
10	143 25	2			
10	143 32	32			
10	143 40	40			
10	143 50 ⁽¹⁾	50			
22 x 58 HRC					
	Without striker				
10	153 16	16	500	100000	
10	153 20	20			
10	153 25	25			
10	153 32	32			
10	153 40	40			
10	153 50	50			
10	153 63	63			
10	153 80	80			
10	153 96	100			
10	153 97 ⁽¹⁾	125			

Pack Cat. No. Cylindrical type aM (motor rated)

Conform to EN 60269-1, IEC 60269-1 and 2 Veritas approved							
		Rating (Amps)	Voltage ~ (Volts)	Rupture capacity (Amps)			
	Without indicator	10 x 38 HRC		500	100000		
10	130 95	0.50					
10	130 01	1					
10	130 02	2					
10	130 04	4					
10	130 06	6					
10	130 08	8					
10	130 10	10					
10	130 12	12					
10	130 16	16					
10	130 20 ⁽²⁾	20	400				
10	130 25 ⁽²⁾	25	400				
	Without striker	14 x 51 HRC		500	100000		
10	140 08	8					
10	140 10	10					
10	140 12	12					
10	140 16	16					
10	140 20	20					
10	140 25	25					
10	140 32	32					
10	140 40	40					
10	140 50 ⁽¹⁾	50	400				
	Without striker	22 x 58 HRC				500	100000
10	150 25	25					
10	150 32	32					
10	150 40	40					
10	150 50	50					
10	150 63	63					
10	150 80	80					
10	150 96	100					
10	150 97	125					
				400			

Neutral links

10	123 00	8 x 32 (previously 8.5 x 31.5)
10	133 00	10 x 38
10	143 00	14 x 51
10	153 00	22 x 58

Isolating fuse carriers 8.5 x 32 and 10 x 38 (p. 58)

(1) Overrating described by standards
(2) Overrating not described by standards

HRC blade type cartridge fuses



168 35



178 65



171 60 (with striker)



Technical data and dimensions (p. 64)

Pack	Cat. No.		Type gG (IEC) / gL (VDE)			Pack	Cat. No.		Type aM (motor rated)			
			Conform to EN 60269-1 IEC 60269-1, 2 and VDE 0636-1 Veritas approved Fully insulated end plate and handle lugs				Conform to EN 60269-1 IEC 60269-1, 2 and VDE 0636-1 Veritas approved Fully insulated end plate and handle lugs					
			Rating (Amps)	Voltage ~ (Volts)	Rupture capacity (Amps)		With indicator	With striker	Rating (Amps)	Voltage ~ (Volts)	Rupture capacity (Amps)	
			Size 00						Size 00			
			10	163 18	25				3	160 25	40	
			10	163 20	32				3	160 30	50	
			10	163 22	35				3	160 35	63	500
			10	163 25	40				3	160 40	80	
			10	163 30	50				3	160 45	100	
			10	163 35	63		500	120000	3	160 50	125	400
			10	163 40	80						Size 0	
			10	163 45	100				3	166 35	63	
			10	163 50	125				3	166 40	80	
			10	163 55	160				3	166 45	100	500
									3	166 50	125	120000
									3	166 55	160	
			3	168 35	63						Size 1	
			3	168 40	80							
			3	168 45	100		500	120000	3	170 50	171 50	125
			3	168 50	125				3	170 55	171 55	160
			3	168 55	160				3	170 60	171 60	200
			3	168 60 ⁽¹⁾	200				3	170 65	171 65	250
											Size 2	
			3						3	175 60	176 60	200
			3	173 50	125				3	175 65	176 65	250
			3	173 55	160				3	175 70	176 70	315
			3	173 60	200		500	120000	3	175 75	176 75	400
			3	173 65	250						Size 3	
			3						3	180 25	180 75	500
3	178 60	200			3	180 30	180 80	630				
3	178 65	250					Neutral blades					
3	178 70	315	500	120000	10	163 04	Size 00					
3	178 75	400			1	168 04	Size 0					
					1	173 04	Size 1					
3	181 25	500			1	178 04	Size 2					
3	181 30	630	500	120000	1	181 04	Size 3					

(1) Overrating not described by standards

Blade type cartridge fuses

Bases



160 00

160 05

175 02 base + cartridge size
2 Cat. No. 178 70 + handle 199 02

Terminal shield 199 22

199 16



Technical data and dimensions (p. 64)

Pack Cat. No. Bases for blade type DIN fuses

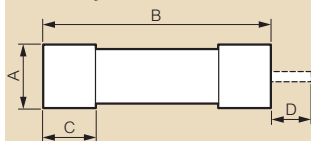
Screw mounting				
		Size	Number of pole	Amps
3	160 00	00	1 P	100 A
1	160 04	00	3 P	100 A
3	162 00	00	1 P	125/160 A
1	162 04	00	3 P	125/160 A
DIN rail mounting				
3	160 01	00	1 P	100 A
1	160 05	00	3 P	100 A
DIN rail or screw mounting				
3	165 00	0	1 P	160 A
3	165 02	0	1 P	160 A
1	165 03	0	3 P	160 A
3	170 00	1	1 P	250 A
1	170 02	1	1 P	250 A
1	170 03	1	3 P	250 A
3	175 00	2	1 P	400 A
1	175 02	2	1 P	400 A
1	175 03	2	3 P	400 A

Pack Cat. No. Accessories

5	199 02	Handle for all sizes
		Separation dividers
10	199 09	Size 00 (for cat. No 160 01 and cat. No 162 00)
10	199 15	Size 0
10	199 16	Size 1
10	199 17	Size 2
2	199 18	Size 3
		Terminal shields
		For fuse bases
10	199 20	Size 00
10	199 21	Size 0
10	199 22	Size 1
10	199 23	Size 2

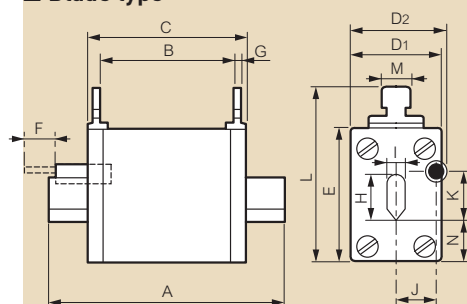
Cartridge fuses

HRC cylindrical



Size (mm)	A	B	C	D
8 x 32	8.5	31.5	6.3	-
10 x 38	10.3	38	10	-
14 x 51	14.3	51	13	7.5
22 x 58	22.2	58	16	7.5

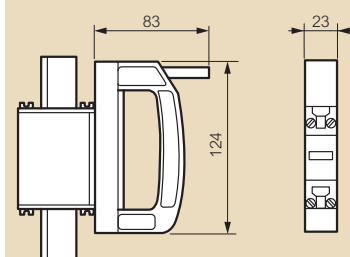
Blade type



Size (mm)	00	0	1	2	3
A	78	125	135	150	150
B	44	62	64	64	61
C	52	67	74	74	75
D1	30	36	47	50	70
D2	-	39	47	50	64
E	46	46	52	60	75
F	-	14	14	14	14
G	2.5	2.5	3	3	2.5
H	15	15	21	28	36
I	6	6	6	6	6
J	-	14.5	16	19	23
K	-	14.5	14.5	14.5	14.5
L	59	59	64	72	88
M	10	10	10	10	10
N	14.5	14.5	14.5	14.5	18

Note: Force of striker at the beginning of stroke 1.9 kg and 1 kg at the end according to NF C 63-213

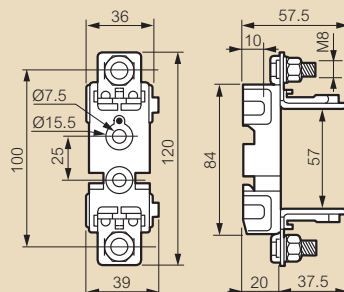
Removable handle



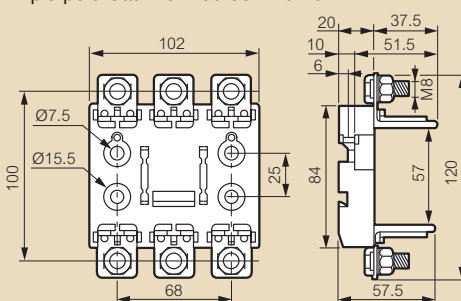
Bases for blade type

Size 0 to 3

Single pole Cat. No. 160 01 - 162 00

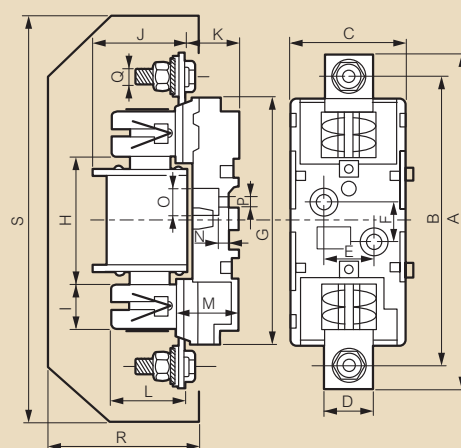


Triple pole Cat. No. 160 05 - 162 04



Sizes 0 to 3

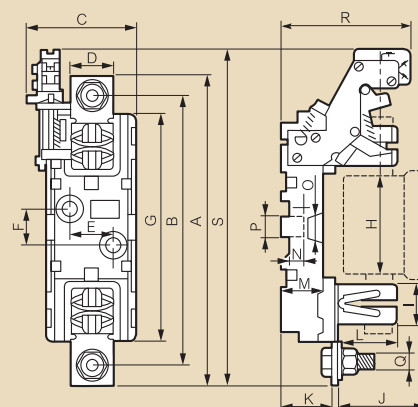
Single pole without micro-switch



Size (mm)	0	1	2	3
A	171	200	225	250
B	150	175	200	210
C	47	59	67	82
D	20	25	30	41
E	-	30	30	30
F	25	25	25	25
G	125	150	170	158
H	75	80	80	83
I	23	28	32	35
J	68	68	83	92
K	24	35	35	35
L	43	46	58	68
M	28	38	39	40
N	11.5	13.5	13.5	14
O	14	20	20	20
P	7.5	10.5	10.5	10.5
Q	8	10	10	12
R	96	107	121	110
S	180	224	240	266

Size 0 to 3 (continued)

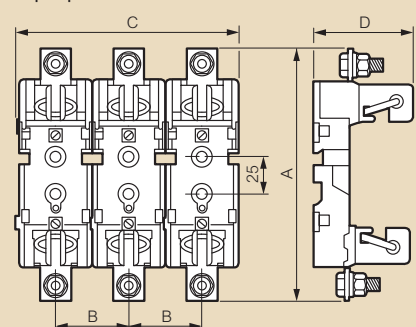
Single pole with micro-switch



Size (mm)	0	1	2	3
A	171	200	225	250
B	150	175	200	210
C	63	72	78	91
D	20	25	30	41
E	-	30	30	30
F	25	25	25	25
G	125	150	170	158
H	75	80	80	83
I	23	28	32	35
J	68	68	83	92
K	24	35	35	35
L	43	46	58	68
M	28	38	39	40
N	11.5	13.5	13.5	14
O	14	20	20	20
P	7.5	10.5	10.5	10.5
Q	8	10	10	12
R	75	85	90	94
S	198	215	229	242

Size 0 - 1 - 2

Triple pole



Size (mm)	0	1	2
A	171	200	225
B	48	62.5	68
C	144	180	204
D	67	81	93

Some items sold separately

For pack quantity, please refer to numerical index pages

For trade price, please see your local HPM Legrand representative for the current price list

Selection charts

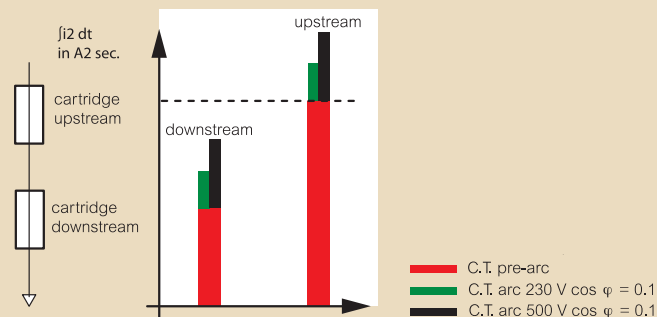
How to select a protection system ?

Depending on the type of failure, overload or short-circuit, use 2 series of data

1. Overloads: use the operating zone curves of the different protection devices. On the same row, the operating zones should not overlap

2. Short-circuits: use the I^2t tables. The total I^2t of the protection system the furthest downstream must be less than the upstream protection pre-arc I^2t

Example of good selection



Selection between cartridge fuses (according to IEC 60269-2-1)

Upstream rating gG cartridge fuse (A)	Downstream maximum rating determined according to class and voltage to obtain selection	
	aM	gG
2		
4	1	1
6	2	2
8	2	2
10	2	4
12	2	4
16	4	6
20	6	10
25	8	16
32	10	20
35	12	20
40	12	25
50	16	32
63	20	40
80	25	50
100	36	63
125	40	80
160	63	100
200	80	125
250	125	160
315	125	200
400	160	250
500	200	315
630	250	400

Upstream rating aM cartridge fuse (A)	Downstream maximum rating determined according to class and voltage to obtain selection	
	aM	gG
2	1	1
4	2	4
6	2	6
8	4	8
10	6	10
12	6	12
16	10	16
20	12	20
25	12	25
32	20	32
36	20	32
40	25	32
50	25	40
63	40	50
80	50	63
100	63	80
125	80	100
160	100	125
200	125	160
250	160	160
315	200	200
400	250	250
500	315	315
630	400	400

Motor protection

Motor three-phase									Cartridges															
230 V			400 V			500 V			10 x 38 ratings		14 x 51 ratings		22 x 58 ratings		S. 00 ratings		S. 0 ratings		S. 1 ratings		S. 2 ratings		S. 3 ratings	
kW	Hp	In A	kW	Hp	In A	kW	Hp	In A	gG	aM	gG	aM	gG	aM	gG	aM	gG	aM	gG	aM	gG	aM	gG	aM
			0.37	0.5	1.03	0.75	1	1.5	4	2	4	2												
0.37	0.5	1.8	0.75	1	2	1.5	2	2.6	6	4	6	4												
0.75	1	3.5	1.5	2	3.5	2.2	3	3.8	8	4	8	4												
1.1	1.5	4.4	2.2	3	5	3.7	5	5.9	12	6	12	6												
1.8	2.5	7	3	4	6.6	4	5.5	6.5	16	8	16	8	16											
2.2	3	8.7	4	5.5	8.5	5.5	7.5	9	20	10	20	10	20											
3	4	11.5	5.5	7.5	11.5	7.5	10	12	25	12	25	12	25		25									
4	5.5	14.3	7.5	10	15.5	11	15	18.4		20 ⁽¹⁾	32	20	32	20	32	20								
5.5	7.5	20	11	15	22	15	20	23		20 ⁽¹⁾	50	25	50	25	50	25								
7.5	10	27	15	20	30	18.5	25	28.5			32	50	32	50	32									
10	13.5	35	18.5	25	37	25	34	39.4			40	63	40	63	40	63								
11	15	39	22	30	44	30	40	45			50 ⁽¹⁾	80	50	80	50	80								
15	20	52	25	34	51	40	54	60				100	63	100	63	100	63							
18.5	25	64	30	40	60	45	60	65					80	125	80	125	80	125						
22	30	75	37	50	72	51	70	75					80	125	80	125	80	125						
25	35	85	45	60	85	63	109	89					100	160	100	160	100	160						
30	40	103	55	75	105	80	110	112					125 ⁽¹⁾		125	200	125	200	125	200				
45	60	147	75	100	138	110	150	156									160	250	160	250				
55	75	182	90	125	170	132	180	187											200	315	200			
75	100	239	110	150	205	160	220	220											250	400	250			
80	160	260	132	180	245	220	300	310													315			
90	125	295	160	218	300																315			
110	150	356	200	270	370	250	340	360													400			
132	180	425	250	340	475	335	450	472															500	
160	218	520	315	430	584	450	610	608															630	

(1) 400 V max.

Blade cartridge fuses gG and aM types

The gG or aM types protect the conductors of electrical circuits in the event of overbad or short-circuit

gG cartridge fuses:

The selectivity ratio is 1.6 instead of 2

The breaking capacity of 120000 A provides full protection in the most critical situations

aM cartridge fuses:

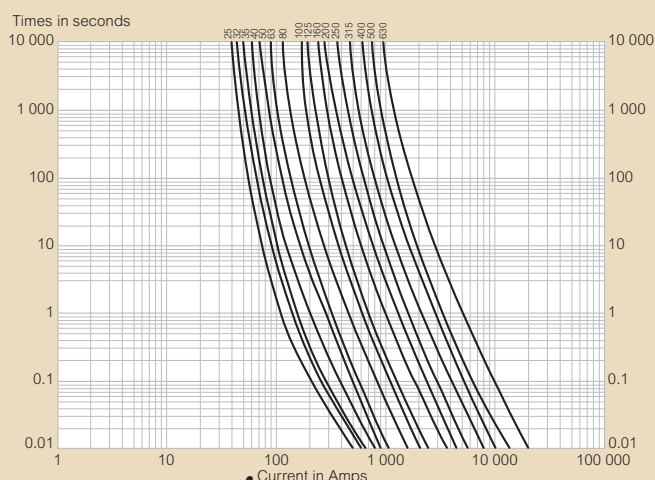
These cartridge fuses must be combined with a low-overload thermal protection device

The breaking capacity of 100000 A from size 10 x 38 upwards provides full protection in the most critical situations

Cylindrical industrial cartridge fuses can be used to protect DC circuits supplied at up to 48 V max.

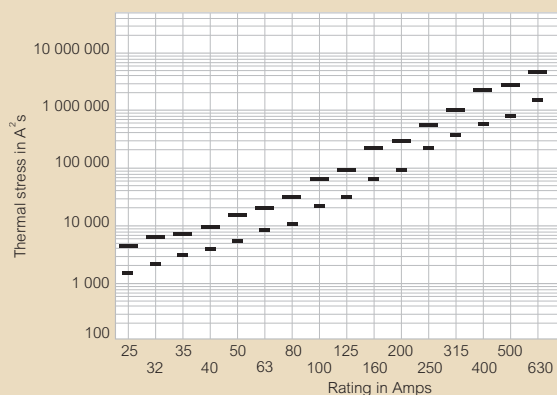
■ Rupture capacity curves

gG type



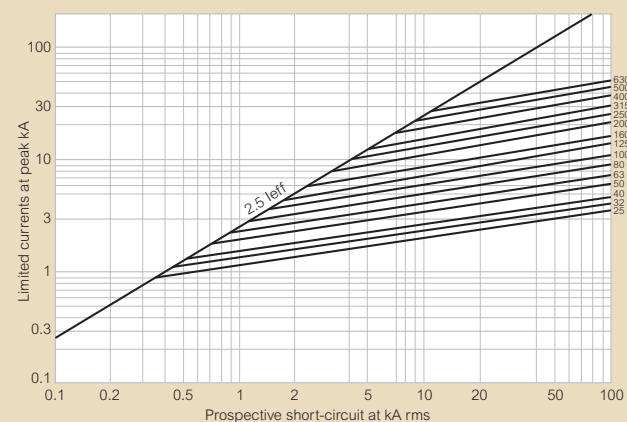
■ Thermal stresses ($\int I^2 dt$)

gG type (for 500 V~)



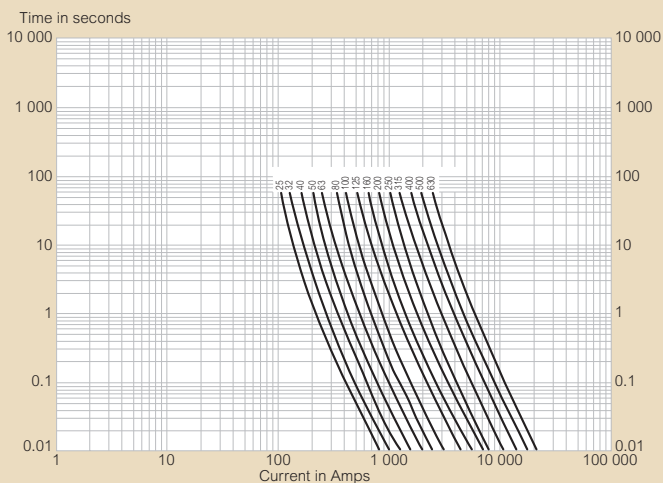
- Total maximum thermal stress for critical current
- - - Pre-arc thermal stress for critical current

■ gG⁽¹⁾ type limitation curve

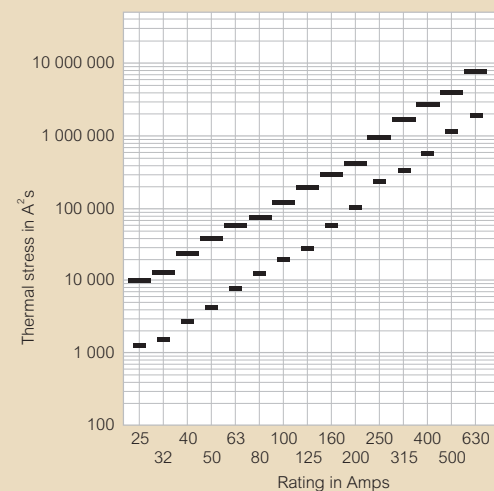


(1) For aM cartridge fuses, see technical data sheets in the Legrand e-catalogue

aM type



aM type for 500 V~ - except 1250 A for 400 V



■ Consumption in watts when hot, at rated current

Fuse ratings (A)	Cartridge fuses			
	gG		aM	
	Size 00	Size 0 to 4	Size 00	Size 0 to 4
25	2.1		1.3	
32	3		1.8	
35	3			
40	3.3	4.2	2.5	
50	4.5	5.5	3	
63	6	6.5	3.6	3.9
80	7	8.5	5.2	5.5
100	7.5	9.5	6	6.5
125	13	12	7	8.5
160	15	15		11.5
200		19		13.5
250		23		17
315		24		24
400		33		28
500		36		34
630		45		41

DC circuit protection

DC fuses and voltage surge protectors



4141 50



4146 82

Mounting on DIN rail

Pack	Cat. no.	Type 2 Voltage Surge Protectors									
		DC protection for photovoltaic installations connected to low voltage network Conforming to UTE guide C 61-740-51 Protection in common mode and residual current mode (Y mode) Consist of a base and plug-in replacement modules with status indicator Red: plug-in modules needs replacing									
		Surge Protectors									
		<table> <tr> <th>I_{max}</th><th>(U)</th><th>Protected poles</th></tr> <tr> <td>25 kA</td><td>600</td><td>2</td></tr> <tr> <td>40 kA</td><td>1000</td><td>2</td></tr> </table>	I _{max}	(U)	Protected poles	25 kA	600	2	40 kA	1000	2
I _{max}	(U)	Protected poles									
25 kA	600	2									
40 kA	1000	2									
1	4141 60										
1	4141 51										
		Plug-in replacement modules									
1	4141 90	for 25kA VSP cat no 414160									
1	4141 91	Ground part for cat no 414160									
1	4141 81	for 40kA VSP cat no 414151									

Pack	Cat. no.	DC Fuse Carriers									
		Category of use DC20B according to EN60947-3 Breaking capacity 50kA according to EN60269-1 1000V fuse carriers for 10x38 cylindrical fuses									
		<table> <tr> <th>Rating (A)</th><th>Protected poles</th><th>Modules</th></tr> <tr> <td>20</td><td>1</td><td>1</td></tr> <tr> <td>20</td><td>2</td><td>2</td></tr> </table>	Rating (A)	Protected poles	Modules	20	1	1	20	2	2
Rating (A)	Protected poles	Modules									
20	1	1									
20	2	2									
1	4146 81										
1	4146 82										

Pack	Cat. no.	DC Fuses
		Comform to IEC 60269-6 (gPV) I _{sc} max: 50kA L/R= 1ms Cylindrical fuses 1000V 10x38 mm
		Rating (A)
10	4146 25	5
10	4146 26	8
10	4146 27	10
10	4146 28	12
10	4146 29	15
10	4146 30	20

		Viking 3 terminal blocks 1000 V Screw junction Blocks for DC applications To be mounted on symetric DIN rail, 15mm deep, according to the EN 60715 Ui (V) : 1000V, pollution 2 level according to the IEC 60664-1 Black colour 1 junction - 1 input / 1 output Nominal cross-section Pitch (mm) (mm ²)
40	4148 00	4 8
30	4148 01	6 10
20	4148 02	10 12
20	4148 03	16 15
10	4148 04 ⁽¹⁾	35 22

DC circuit protection

DC isolating switches



4142 21

Mounting on DIN rail

Pack	Cat. no.	DC Isolating Switches									
		Category of use DC 21B according to EN 60947-3 Double break contacts Visible contact indication For auxiliaries please contact us Use spacing modules Cat.No 4 063 07 between 2 consecutive devices									
		800 V isolating switches									
		<table> <tr> <th>Rating (A)</th><th>Poles protected</th><th>Modules</th></tr> <tr> <td>16</td><td>2</td><td>4</td></tr> <tr> <td>25</td><td>2</td><td>4</td></tr> </table>	Rating (A)	Poles protected	Modules	16	2	4	25	2	4
Rating (A)	Poles protected	Modules									
16	2	4									
25	2	4									
1	4142 21										
1	4142 23										

Pack	Cat. no.	DC rotary Isolating Switches												
		Category of use DC 21B according to EN 60947-3 Double break contacts Visible contact indication												
		600V Rotative Isolating Switches												
		<table> <tr> <th>Rating (A)</th><th>Poles protected</th><th>Modules</th></tr> <tr> <td>16</td><td>2</td><td>4</td></tr> <tr> <td>25</td><td>2</td><td>4</td></tr> <tr> <td>32</td><td>2</td><td>4</td></tr> </table>	Rating (A)	Poles protected	Modules	16	2	4	25	2	4	32	2	4
Rating (A)	Poles protected	Modules												
16	2	4												
25	2	4												
32	2	4												
1	4142 61													
1	4142 62													
1	4142 63													
		1000V Rotative Isolating Switches												
1	4142 81	7												
1	4142 82	9												
1	4142 83	9												

Pack	Cat. no.	Accessories
1	4447	Insulated shield
10	4063 07	Spacing module



Plexo3 weatherproof enclosures (p. 112)