



CATALOGUE

2007-2008

PRODUCTS AND SYSTEMS
FOR ELECTRICAL INSTALLATIONS
AND INFORMATION NETWORKS

 **legrand**[®]



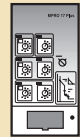
ACBs



P. 34
Presentation
of DMX and DMX-E
ACBs



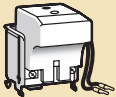
NEW
P. 36
DMX
air circuit
breakers



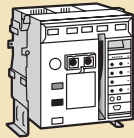
P. 37
DMX
electronic
protection unit



P. 37
DMX-I
trip-free
switches



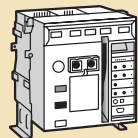
P. 38
DMX auxiliaries
and equipment



P. 44
DMX-E
air circuit
breakers



P. 45
DMX-E
electronic
protection unit



P. 45
DMX-EI
trip-free
switches



P. 46
DMX-E
auxiliaries and
equipment

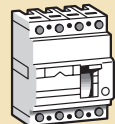
MCCBs



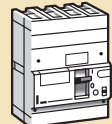
P. 54
Presentation
of DPX MCCBs
16 to 250 A



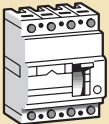
NEW
P. 56
DRX 100
DRX 250



P. 62
DPX 125
fixed version



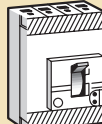
P. 63
DPX 160
fixed version



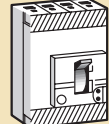
P. 64
DPX 250 ER
fixed and plug-in
version



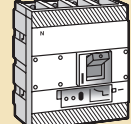
P. 66
Presentation
of DPX MCCBs
electronic system



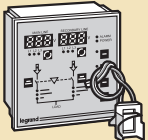
P. 68
DPX 250
fixed, plug-in
and draw-out
version



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DPX 630
fixed, plug-in
and draw-out
version



P. 74
DPX 1250
DPX 1600
fixed and draw-out
version



NEW
P. 76
DPX
auxiliaries

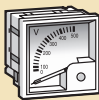


P. 77
Residual
current relay,
coils



P. 78
Dimensions,
tripping curves

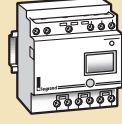
Energy metering



NEW
P. 94
Electrical
energy metering
on door

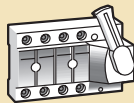


P. 96
Electrical
energy metering
on rail

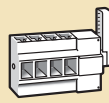


P. 97
Meters

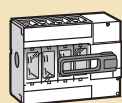
Isolating switches:
- Vistop
- DPX-IS



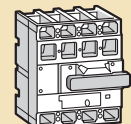
P. 100
Vistop 32 A to 160 A
on rail or on plate



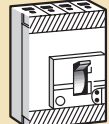
P. 102
DPX-IS 250
on rail or on plate



P. 104
DPX-IS 630
on plate

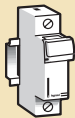


P. 106
DPX-IS 1 600
on plate



P. 108
DPX-I
125 to 1 600 A

SP fuse carriers
cartridge fuses



P. 109
SP fuse carriers



P. 110
HRC cartridge fuses

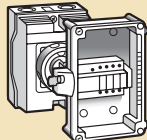


P. 112
HRC blade type
cartridge fuses



P. 113
Technical
characteristics

Proximity switching



P. 116
Proximity switching
12 to 160 A



P. 117
Technical
characteristics

New in 2007



DMX
ACBs
(p. 36)



DRX
MCCBs
(p. 56)



**Electrical energy
metering on door**
(p. 94)

Air circuit breakers: DMX and DMX-E from 800 to 4 000 A

DMX and DMX-E from 2500 to 4000 A provide protection or control at the head of low voltage distribution installations up to 4 000 A

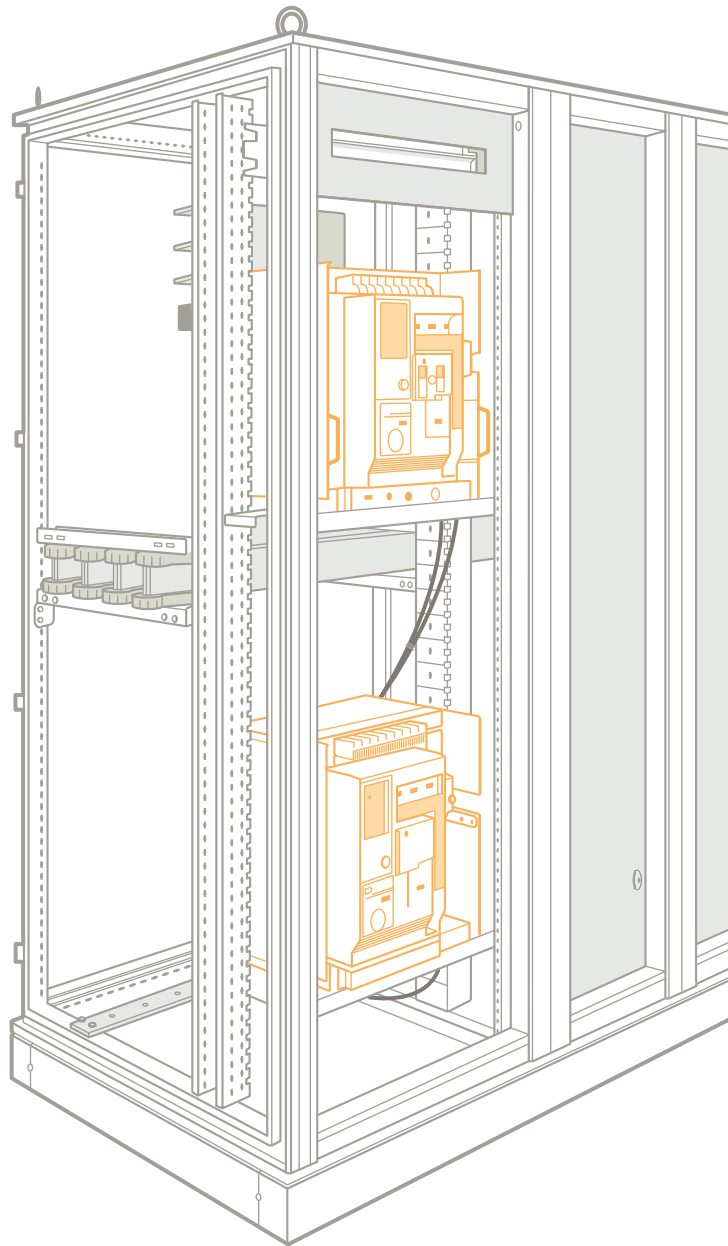
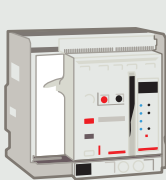
The range

THE PRODUCTS

- DMX
 - 2 SIZES OF UNIT
 - DMX 2500
 - DMX-L 2500, DMX 4000 and DMX-L 4000
 - 3 BREAKING CAPACITIES 50, 65 and 100 kA
 - 2 VERSIONS
 - Fixed: DMX with rear terminals fixed in a horizontal position
 - Draw-out: Supplied with base equipped with adjustable rear terminals and upstream and downstream isolation shutters
 - INTEGRATED MP 17 PROTECTION UNIT
 - MP 18 and MP 20 versions on request



- DMX-E
 - 3 SIZES OF UNIT
 - Up to 1 600 A
 - From 2 000 to 2 500 A
 - From 3 200 to 4 000 A
 - 4 BREAKING CAPACITIES 55, 65, 80 and 100 kA
 - 2 VERSIONS
 - Fixed
 - Draw-out: supplied with a base equipped with adjustable rear terminals and independently lockable safety shutters
 - ELECTRONIC PROTECTION UNIT MP 2G SUPPLIED
 - MP 3 electronic protection unit on request



EQUIPMENT

- Control and signalling auxiliaries (trips and releases, motor-driven controls, closing coils, signalling contacts)
- Wired supply inverter up to 3 devices

Supply inverter (for DMX)

- Interlocking system using cables
- Inverters for 2 or 3 devices
 - No set positioning of the devices in the enclosures
 - The automation control unit and the motor operators controls can be used to create totally automatic inverters

Installation principle (for DMX)

- Mounting on fixing plate
 - Up to 2 DMX can be mounted per XL³ 4000 enclosure
 - Connection and identification of auxiliaries on terminal blocks on front panel
- Available in fixed or draw-out version

LEGRAND ADVANTAGES

- 1 1 device = 1 catalogue number
Devices supplied ready to use
- 2 Single installation principle for all device ratings or versions
- 3 Interchangeability of devices
- 4 Safety when carrying out work: positions can be locked, and isolation shutters
- 5 Highly accurate settings

@ See the on-line catalogue: instructions, technical data sheets, etc.

🎓 Come and be trained at Innoval see p. 409

DMX™

air circuit breakers from 800 to 4 000 A



267 13



268 13



268 17



Dimensions (p. 39)
Electrical characteristics (p. 42)

Air circuit breakers equipped with:
- MP 17 electronic protection unit
- rear terminals
- 8 auxiliary contacts (5 NO + 3 NC)

Pack	Cat.Nos		Fixed version
	3P	4P	
			DMX 2 500 Breaking capacity Icu 50 kA (415 V~) In
1	267 00	267 10	800 A
1	267 01	267 11	1 000 A
1	267 02	267 12	1 250 A
1	267 03	267 13	1 600 A
1	267 04	267 14	2 000 A
1	267 05	267 15	2 500 A
			DMX-H 2 500 Breaking capacity Icu 65 kA (415 V~) In
1	267 20	267 30	800 A
1	267 21	267 31	1 000 A
1	267 22	267 32	1 250 A
1	267 23	267 33	1 600 A
1	267 24	267 34	2 000 A
1	267 25	267 35	2 500 A
			DMX-L 2 500 Breaking capacity Icu 100 kA (415 V~) In
1	267 50	267 60	800 A
1	267 51	267 61	1 000 A
1	267 52	267 62	1 250 A
1	267 53	267 63	1 600 A
1	267 54	267 64	2 000 A
1	267 55	267 65	2 500 A
			DMX 4 000 Breaking capacity Icu 50 kA (415 V~) In
1	267 06	267 16	3 200 A
1	267 07	267 17	4 000 A
			DMX-H 4 000 Breaking capacity Icu 65 kA (415 V~) In
1	267 26	267 36	3 200 A
1	267 27	267 37	4 000 A
			DMX-L 4 000 Breaking capacity Icu 100 kA (415 V~) In
1	267 56	267 66	3 200 A
1	267 57	267 67	4 000 A

Pack	Cat.Nos		Draw-out version
	3P	4P	
			Supplied with a base equipped with adjustable rear terminals and independently lockable safety shutters
			DMX 2 500 Breaking capacity Icu 50 kA (415 V~) In
1	268 00	268 10	800 A
1	268 01	268 11	1 000 A
1	268 02	268 12	1 250 A
1	268 03	268 13	1 600 A
1	268 04	268 14	2 000 A
1	268 05	268 15	2 500 A
			DMX-H 2 500 Breaking capacity Icu 65 kA (415 V~) In
1	268 20	268 30	800 A
1	268 21	268 31	1 000 A
1	268 22	268 32	1 250 A
1	268 23	268 33	1 600 A
1	268 24	268 34	2 000 A
1	268 25	268 35	2 500 A
			DMX-L 2 500 Breaking capacity Icu 100 kA (415 V~) In
1	268 50	268 60	800 A
1	268 51	268 61	1 000 A
1	268 52	268 62	1 250 A
1	268 53	268 63	1 600 A
1	268 54	268 64	2 000 A
1	268 55	268 65	2 500 A
			DMX 4 000 Breaking capacity Icu 50 kA (415 V~) In
1	268 06	268 16	3 200 A
1	268 07	268 17	4 000 A
			DMX-H 4 000 Breaking capacity Icu 65 kA (415 V~) In
1	268 26	268 36	3 200 A
1	268 27	268 37	4 000 A
			DMX-L 4 000 Breaking capacity Icu 100 kA (415 V~) In
1	268 56	268 66	3 200 A
1	268 57	268 67	4 000 A

DMX™ 2 500 - 4 000

electronic protection units



MP 17 delivered on standard on DMX



MP 18 only delivered on request



MP 20 only delivered on request



Curves (p. 41)

DMX 2500 and DMX 4000 circuit breakers take protection units that enable very precise adjustments of the protection conditions, while maintaining total discrimination with downstream devices

Pack	Cat.Nos	Electronic protection unit MP 17
		As standard DMX 2500 and DMX 4000 are equipped with electronic protection unit MP 17 with I_r , I_m , T_m , I_i adjustments on the front
		Test equipment For checking the operation of the protection unit and tripping and opening conditions of the DMX poles Test unit
1	269 28	
		External power supply For powering the protection unit when the circuit breaker is open or not powered Fixed unsecured external power supply
1	269 27	

Electronic protection units on request

On request, DMX's can be equipped with an electronic protection unit including an LCD adjustable by keyboard and an external memory unit on draw-out versions

MP 18

Consult us

Enables I_r , I_m , T_r , T_m , I_i adjustments on the front
Functions:
- current display
- fault adjustment and log

MP 20

Consult us

Enables I_r , I_m , T_r , T_m , I_i adjustments on the front
Functions:
- current display
- fault adjustment and log
Optional functions can be added:
- load check and load-shedding
- trip warning
- centralised communication and check function
- auxiliary power supply

DMX™-I

trip free switches from 1 250 to 4 000 A



267 83



Dimensions (p. 39)
Technical characteristics (p. 42)

Trip free switches equipped with:
- rear terminals
- 8 auxiliary contacts (5 NO + 3 NC)

Pack	Cat.Nos	Fixed version
		DMX-I 2 500
		In
1	267 72	1 250 A
1	267 73	1 600 A
1	267 74	2 000 A
1	267 75	2 500 A
		DMX-I 4 000
		In
1	267 76	3 200 A
1	267 77	4 000 A

Pack	Cat.Nos	Draw-out version
		Supplied with a base equipped with adjustable rear terminals and independently lockable upstream / downstream isolation shutters
		DMX-I 2 500
		In
1	268 72	1 250 A
1	268 73	1 600 A
1	268 74	2 000 A
1	268 75	2 500 A
		DMX-I 4 000
		In
1	268 76	3 200 A
1	268 77	4 000 A



For electronic protection units MP 18, MP 20 mounted on DMX, please consult us

DMX™

auxiliaries and accessories



269 74



269 60



267 15
DMX 2500, mounted on base Cat.No 269 03



261 93



Technical characteristics (p. 43)

Pack	Cat.Nos	Control and signalling auxiliaries
		Shunt trip
		When energised the circuit breaker will be tripped
1	269 64	24 V $\overline{\text{---}}$
1	269 65	48 V $\overline{\text{---}}$
1	269 66	110/130 V $\sim$ or $\overline{\text{---}}$
1	269 67	220/250 V $\sim$ or $\overline{\text{---}}$
1	269 68	380/440 V $\sim$ or $\overline{\text{---}}$
		Undervoltage releases
		When the coil is de-energised, the circuit breaker will be tripped
1	269 73	24 V $\overline{\text{---}}$
1	269 69	48 V $\overline{\text{---}}$
1	269 70	110/130 V $\overline{\text{---}}$
1	269 71	220/250 V $\sim$
1	269 72	380/440 V $\sim$
		Delayed undervoltage releases
		Improves immunity to nuisance tripping
1	269 74	48 V $\overline{\text{---}}$
1	269 75	110/130 V $\overline{\text{---}}$
1	269 76	220/250 V $\sim$ or $\overline{\text{---}}$
1	269 77	380/440 V $\sim$ or $\overline{\text{---}}$
		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	269 54	24/30 V $\overline{\text{---}}$
1	269 55	48 V $\overline{\text{---}}$
1	269 56	110/130 V $\sim$
1	269 57	110/130 V $\overline{\text{---}}$
1	269 58	220/250 V $\sim$
		Closing coils
		Enables remote closing of the circuit breaker if the closing spring is charged
1	269 60	24/30 V $\overline{\text{---}}$
1	269 61	48 V $\overline{\text{---}}$
1	269 62	110/130 V $\sim$ and $\overline{\text{---}}$
1	269 63	110/130 V $\sim$ and $\overline{\text{---}}$
		Signalling contacts
1	269 52	1 NO fault signal contact
1	269 50	6 NO + 6 NC position contact (in/test/out) for draw-out version

		Locking
		Key locking in "open" position
1	269 31	Mounting of the lock on the ACBs
1	269 32	Ronis lock (lock and key included)
		Profalux lock (lock and key not included)
		Key locking in the draw-out position
		Mounting of the lock on the base
1	269 41	Ronis lock (lock and key included)
1	269 42	Profalux lock (lock and key not included)
		Door locking
		Prevents opening of the door with the circuit breaker closed
1	269 88	Left-hand side mounting (hinges on the right)
1	269 87	Right-hand side mounting (hinges on the left)

Pack	Cat.Nos	Equipment for supply invertors
		Devices placed above one another or installed side by side
		Interlocking units
		For installation on the side of ACBs or trip free switches DMX/DMX-I
1	269 95	For DMX/DMX-I 2500 fixed version
1	269 97	For DMX/DMX-I 4000 and DMX-L fixed version
1	269 91	For DMX/DMX-I 2500 draw-out version
1	269 93	For DMX/DMX-I 4000 and DMX-L draw-out version
		Cable for interlocking assemblies
1	269 99	Set of cable for 2 devices
		Length: 2 m

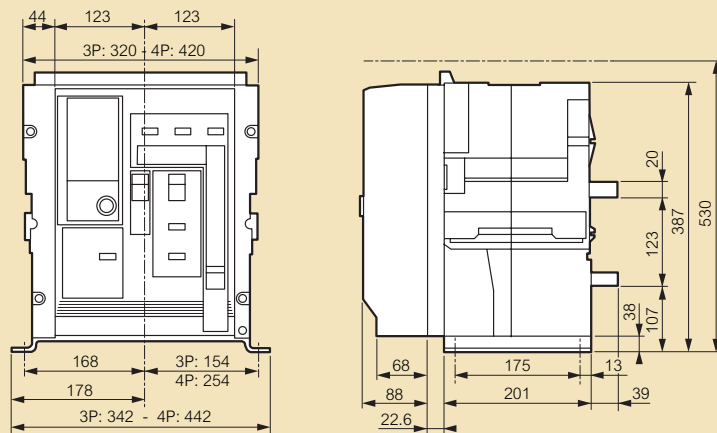
		Equipment for conversion of a fixed device into draw-out device
		Base, set of cluster contacts and mounting tool required
		Bases for draw-out device
1	269 00	For DMX/DMX-I 2500
1	269 01	For DMX/DMX-I 4000 and DMX-L $\leq$ 3200 A
1	269 02	For DMX/DMX-I and DMX-L = 4000 A
		Set of cluster contacts
1	269 78	For mounting on rear terminals
1	269 79	For DMX/DMX-I $\leq$ 1600 A
1	269 80	For DMX/DMX-I = 2000 to 2500 A
1	269 81	For DMX/DMX-I and DMX-L $\leq$ 3200 A
		For DMX/DMX-I and DMX-L = 4000 A
		Cluster mounting tool
1	269 08	For mounting the cluster on the rear terminals of the device
		Automation control unit
		For setting the conditions for supply inversion, generator on/off, status acquisition for DMX and DPX circuit-breakers, open/closed
		Power supply: 230 V $\sim$ and 12-24-48 V $\overline{\text{---}}$
		Connection by plug-in terminals
1	261 93	Standard unit
1	261 94	Communicating unit, enabling data transmission (RS 485 port)

		Accessories
		Rating mis-insertion device
		Prevents the insertion of a draw-out circuit breaker in an incompatible base
1	269 86	Base/circuit breaker insertion lock
		Rating mis-insertion device
		Counts total number of operation cycles of the device
1	269 89	Operations counter

DMX™ 2500, DMX™-I 2500

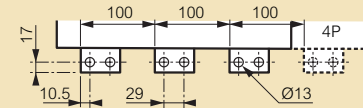
■ Dimensions

Fixed version

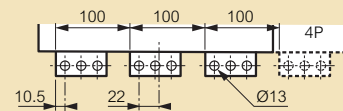


Rear terminals fixed version

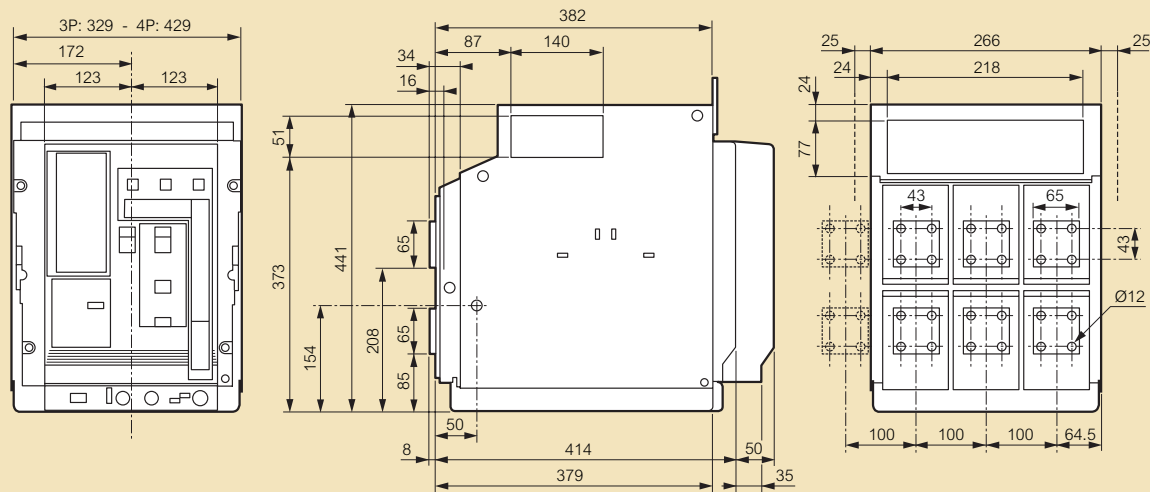
800 - 1600 A



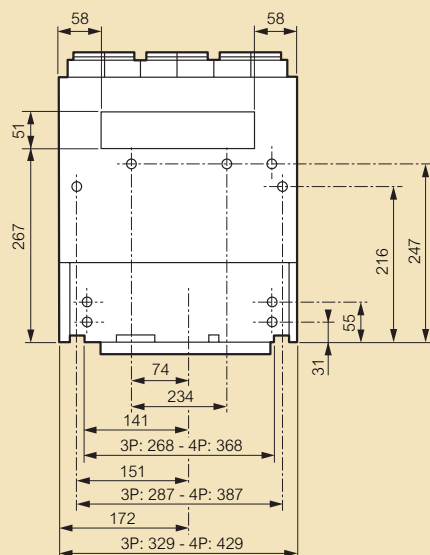
2000 - 2500 A



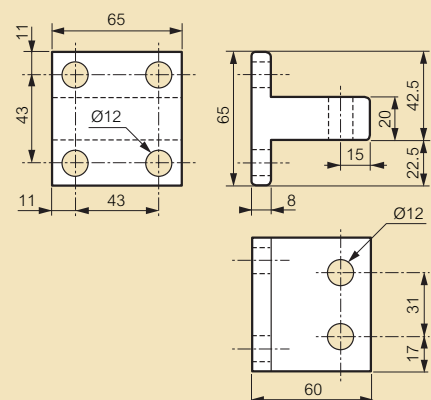
Draw-out version



Base for draw-out version

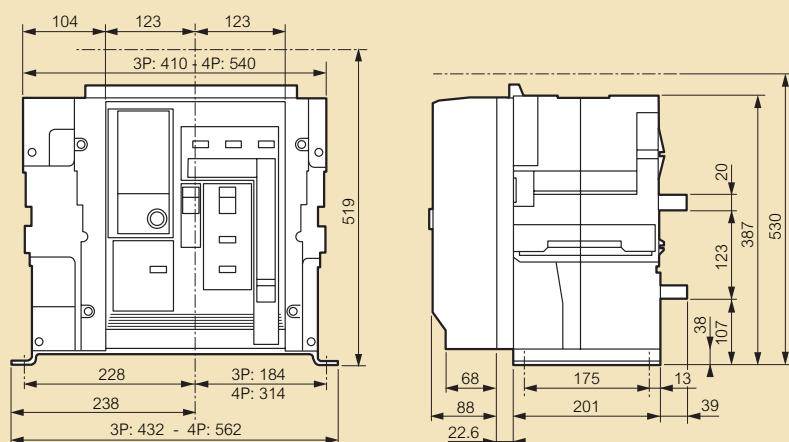


Adjustable rear terminals draw-out version

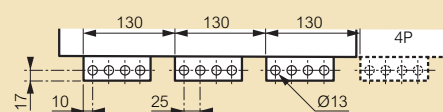


■ Dimensions

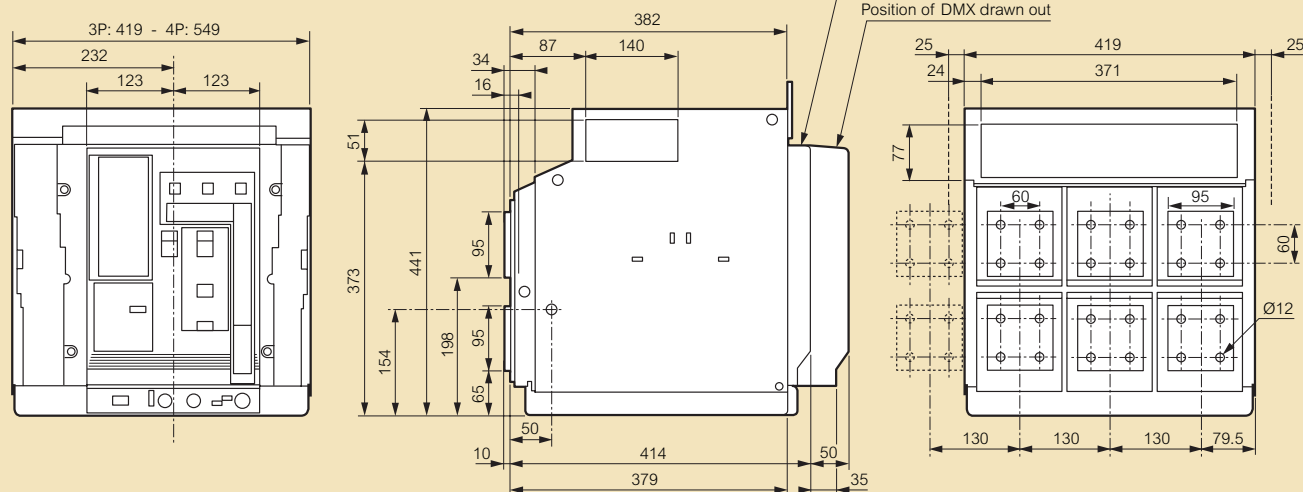
Fixed version



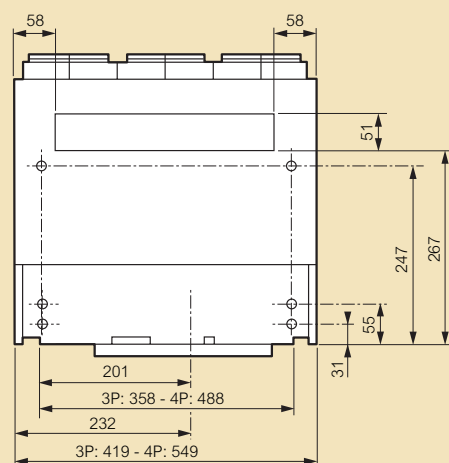
Rear terminal fixed version



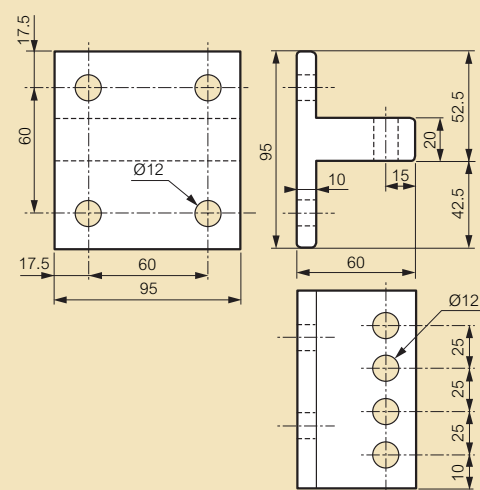
Draw-out version



Base for draw-out version



Adjustable rear terminals draw-out version⁽¹⁾



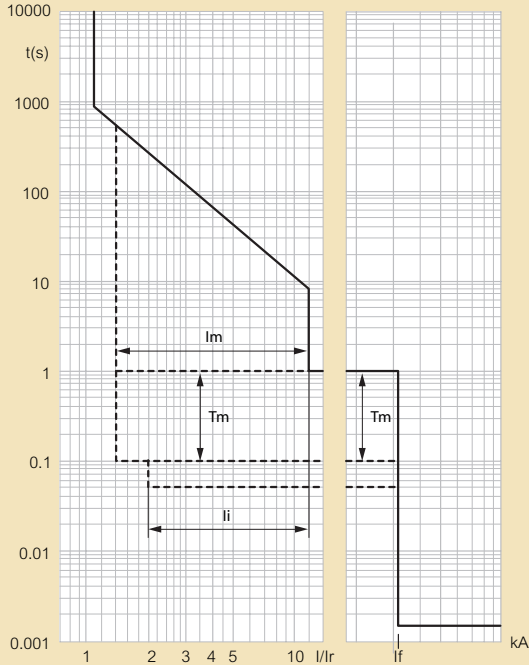
(1) except DMX 4000 A fixed vertical position

DMX™ electronic protection units

MP 17

I_r , I_m , T_m adjustment on front panel

Tripping curves



Long delay protection against overloads

$I_r = 0.4 - 0.5 - 0.6 - 0.7 - 0.8 - 0.9 - 1 \times I_n$ (7 steps)
Neutral protection 50 % of phases values

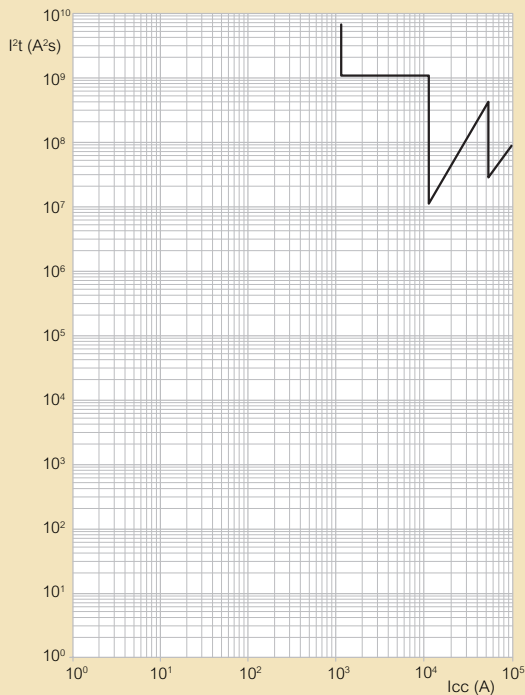
Short delay protection against short-circuits

$I_m = 1.5 - 2 - 3 - 4 - 6 - 8 - 10 - 12 \times I_r$ (8 steps)
 $T_m = 0.1 - 0.2 - 0.4 - 0.5 - 0.6 - 0.8 - 1.0$ s (7 steps)

Instantaneous protection

$I_i = \text{OFF}, 2, 3, 4, 6, 8, 10 \times I_n$
 I_f (if $I_i = \text{OFF}$) = 50 kA for DMX
80 kA for DMX-L

Thermal stress limitation curve



DMX™ and DPX™ automation control units

Functions

Standard unit Cat.No 261 93

- Used to adjust and manage the source inversion operating conditions (DMX and DPX):
- 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 MCB 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~

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

DMX™, DMX™-L, DMX™-I

■ Technical characteristics

DMX / DMX-L 2 500/4 000

According to IEC 60947-2		DMX 2 500 / DMX-L 2 500								DMX 4 000 / DMX-L 4 000					
		800		1 250		1 600		2 000		2 500		3 200		4 000	
		DMX	DMX-L	DMX	DMX-L	DMX	DMX-L	DMX	DMX-L	DMX	DMX-L	DMX	DMX-L	DMX	DMX-L
Number of pole		3P - 4P		3P - 4P		3P - 4P		3P - 4P		3P - 4P		3P - 4P		3P - 4P	
Rating In (A)		800		1 250		1 600		2 000		2 500		3 200		4 000	
Neutral protection		50 %		50 %		50 %		50 %		50 %		50 %		50 %	
Rated insulation voltage Ui (V)		1 000		1 000		1 000		1 000		1 000		1 000		1 000	
Rated impulse withstand voltage Uimp (kV)		8		8		8		8		8		8		8	
Rated operational voltage (50/60Hz) Ue (V)		690		690		690		690		690		690		690	
Ultimate breaking capacity Icu (kA)	230 V~	50	100	50	100	50	100	50	100	50	100	50	100	50	100
	415 V~	50	100	50	100	50	100	50	100	50	100	50	100	50	100
	500 V~	50	80	50	80	50	80	50	80	50	80	50	80	50	80
	600 V~	50	65	50	65	50	65	50	65	50	65	50	65	50	65
	690 V~	40	60	40	60	40	60	40	60	40	60	40	60	40	60
Service breaking capacity (% Icu)		100	80	100	80	100	80	100	80	100	80	100	80	100	80
Short-circuit making capacity Icm (kA)	415 V~	143	220	143	176	143	176	143	176	143	176	143	176	143	176
	500 V~	105	176	105	176	105	176	105	176	105	176	105	176	105	176
	600 V~	105	176	105	143	105	143	105	143	105	143	105	143	105	143
	690 V~	84	105	84	105	84	105	84	105	84	105	84	105	84	105
Short time withstand current Icw (kA)	t = 1s	50	80	50	80	50	80	50	80	50	80	50	80	50	80
Category of use		B		B		B		B		B		B		B	
Suitable for isolation		YES		YES		YES		YES		YES		YES		YES	
Electronic protection units	MP 17			Standard		Standard		Standard		Standard		Standard		Standard	
	MP 18/MP 20			Option		Option		Option		Option		Option		Option	
Endurance (cycles)	mechanical	20 000	20 000	20 000	20 000	20 000	20 000	20 000	20 000	20 000	20 000	20 000	20 000	20 000	20 000
	electrical	5 000	3 000	5 000	3 000	5 000	3 000	5 000	3 000	5 000	3 000	5 000	3 000	5 000	3 000

DMX-I 2 500/4 000

According to 60947-3		DMX-I 2 500				DMX-I 4 000	
		1 250	1 600	2 000	2 500	3 200	4 000
Number of pole		3P - 4P		3P - 4P		3P - 4P	
Rating In (A)		1 250		1 600		2 000	
Neutral adjustment		50 %		50 %		50 %	
Rated insulation voltage Ui (V)		1 000		1 000		1 000	
Rated impulse withstand voltage Uimp (kV)		8		8		8	
Rated operational voltage Ue (V~)	50/60 Hz	690		690		690	
	direct	250		250		250	
Short-circuit making capacity Icm (kA)	415 V~	143		143		143	
	500 V~	105		105		105	
	600 V~	105		105		105	
	690 V~	84		84		84	
Short time withstand current Icw (kA)	t = 1 s	50		50		50	
Category of use		B		B		B	
Suitable for isolation		YES		YES		YES	
Endurance (cycles)	mechanical	20 000		20 000		20 000	
	electrical	5 000		5 000		5 000	

■ Selection in three-phase network 400 V~

DMX/DPX

Upstream		DMX 2 500					DMX 4 000	
		800	1 250	1 600	2 000	2 500	3 200	4 000
Downstream								
DPX 125 ⁽¹⁾		T	T	T	T	T	T	T
DPX 160 ⁽¹⁾		T	T	T	T	T	T	T
DPX 250 ER ⁽¹⁾		T	T	T	T	T	T	T
DPX 250 ⁽¹⁾ TM and elec.		T	T	T	T	T	T	T
DPX 630 ⁽¹⁾ TM and elec.		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
	1 000 A		T	T	T	T	T	T
	1 250 A			T	T	T	T	T
DPX 1600 ⁽¹⁾ electronic	630 A		T	T	T	T	T	T
	800 A		T	T	T	T	T	T
	1 250 A			T	T	T	T	T
	1 600 A				T	T	T	T

DMX/DMX

Upstream		DMX/DMX-L						
		800	1 250	1 600	2 000	2 500	3 200	4 000
Downstream								
DMX/DMX-L	800			T	T	T	T	T
	1 250				T	T	T	T
	1 600					T	T	T
	2 000						T	T
	2 500							T
	3 200							
	4 000							

DMX/DX

	DMX/DMX-L						
	800	1 250	1 600	2 000	2 500	3 200	4 000
DX	T	T	T	T	T	T	T
DX-H	T	T	T	T	T	T	T
DX-D	T	T	T	T	T	T	T
DX-L	T	T	T	T	T	T	T

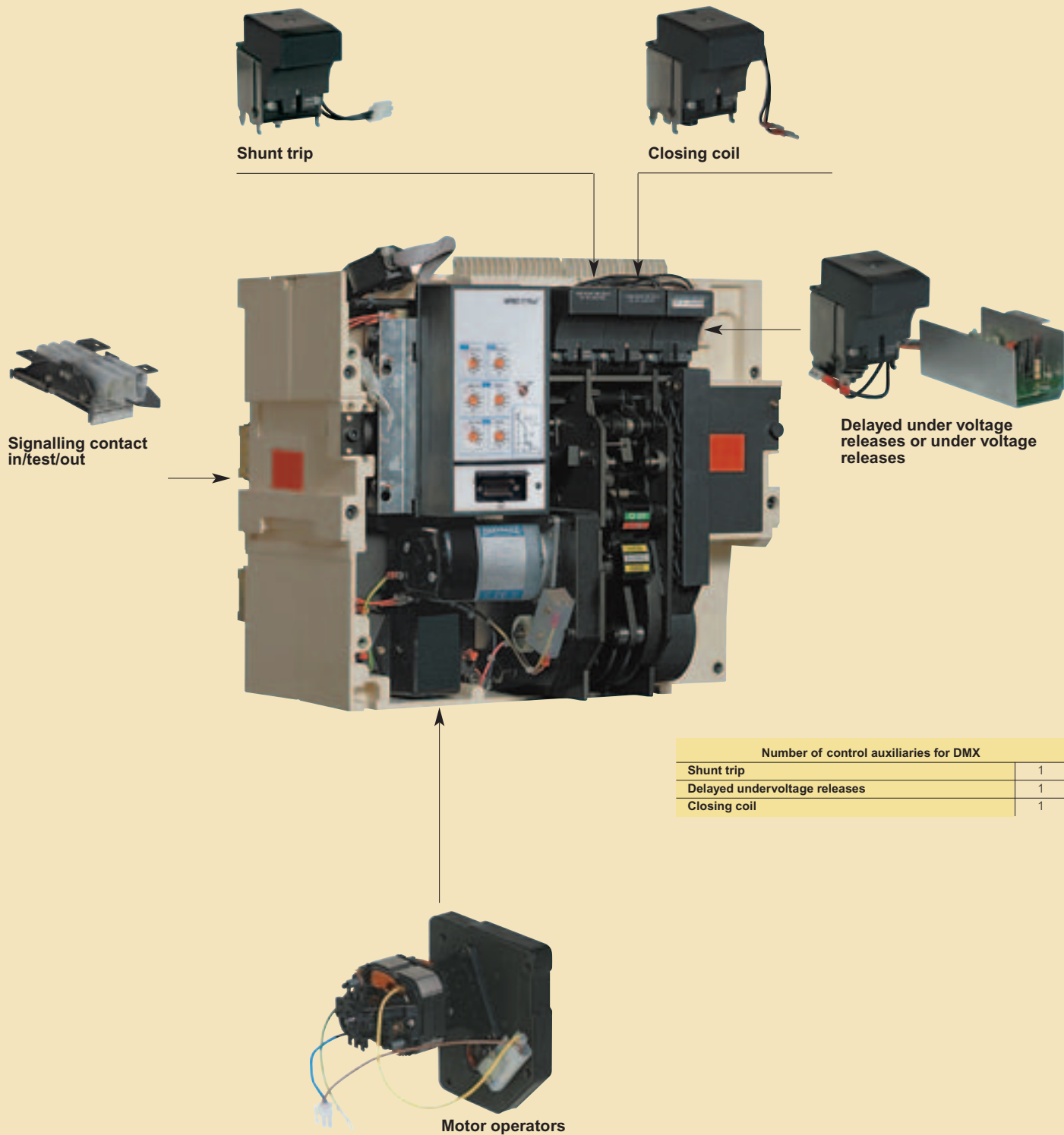
(1) All breaking capacity

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

DMX™ 2500 - DMX™ 4000

Common auxiliaries from 800 to 4000 A

Removing front plate gives direct access to all control and signalling accessories
Front connection: 32 available connecting points



Number of control auxiliaries for DMX	
Shunt trip	1
Delayed undervoltage releases	1
Closing coil	1

DMX™-E

air circuit breakers from 800 to 4 000 A



6261 29



6260 75



6261 17 with MP 3 electronic protection unit



Electrical characteristics (p. 48)
Dimensions (p. 51 to 53)

Air circuit breakers equipped with:
- MP 2G electronic protection unit
- rear terminals
- 8 auxiliary contacts (4 NO + 4 NC)

Pack	Cat.Nos		Fixed version
	3P	4P	
			DMX-E 55 Breaking capacity Icu 55 kA (415 V~) In
1	6260 02	6260 12	800 A
1	6260 03	6260 13	1 000 A
1	6260 04	6260 14	1 250 A
1	6260 05	6260 15	1 600 A
			DMX-E 65 Breaking capacity Icu 65 kA (415 V~) In
1	6260 42	6260 52	800 A
1	6260 43	6260 53	1 000 A
1	6260 44	6260 54	1 250 A
1	6260 45	6260 55	1 600 A
1	6260 46	6260 56	2 000 A
1	6260 47	6260 57	2 500 A
			DMX-E 80 Breaking capacity Icu 80 kA (415 V~) In
1	6260 86	6260 96	2 000 A
1	6260 87	6260 97	2 500 A
1	6260 88	6260 98	3 200 A
1	6260 89	6260 99	4 000 A
			DMX-E 100 Breaking capacity Icu 100 kA (415 V~) In
1	6261 26	6261 36	2 000 A
1	6261 27	6261 37	2 500 A
1	6261 28	6261 38	3 200 A
1	6261 29	6261 39	4 000 A

Pack	Cat.Nos		Draw-out version
	3P	4P	
			Supplied with a base equipped with adjustable rear terminals and independently lockable safety shutters
			DMX-E 55 Breaking capacity Icu 55 kA (415 V~) In
1	6260 22	6260 32	800 A
1	6260 23	6260 33	1 000 A
1	6260 24	6260 34	1 250 A
1	6260 25	6260 35	1 600 A
			DMX-E 65 Breaking capacity Icu 65 kA (415 V~) In
1	6260 62	6260 72	800 A
1	6260 63	6260 73	1 000 A
1	6260 64	6260 74	1 250 A
1	6260 65	6260 75	1 600 A
1	6260 66	6260 76	2 000 A
1	6260 67	6260 77	2 500 A
			DMX-E 80 Breaking capacity Icu 80 kA (415 V~) In
1	6261 06	6261 16	2 000 A
1	6261 07	6261 17	2 500 A
1	6261 08	6261 18	3 200 A
1	6261 09	6261 19	4 000 A
			DMX-E 100 Breaking capacity Icu 100 kA (415 V~) In
1	6261 46	6261 56	2 000 A ⁽¹⁾
1	6261 47	6261 57	2 500 A ⁽¹⁾
1	6261 48	6261 58	3 200 A
1	6261 49	6261 59	4 000 A

(1) Not equipped with adjustable rear terminals

DMX™-E electronic protection unit



6263 79



MP 3 available
on request



Technical characteristics (p. 49)

The circuit breakers are delivered on standard with their protection unit MP 2G

DMX™-EI trip-free switches



6262 05



Electrical characteristics (p. 48)
Dimensions (p. 51 to 53)

Non automatic air circuit breakers with rear terminals and 8 auxiliary contacts (4 NO + 4 NF)
Suitable for isolation

Pack	Cat.Nos	MP 2G electronic protection unit
1	6263 79	On standard, the DMX-E are equipped with an MP 2G electronic protection unit, with rotary selectors for adjustment of the operating parameters (p. 49) Adjustment of neutral protection: 0, 50 or 100 % Other versions on request Test box Use to verify the correct functioning of the protection unit and the opening conditions

Pack	Cat.Nos	MP 3 electronic protection unit
		On request, the DMX-E can be equipped with an MP 3 electronic protection unit provided with a liquid crystal display high resolution, additional protections, functions of measurement and communication

Pack	Cat.Nos		Fixed version
	3P	4P	In
1	6262 01	6262 11	630 A
1	6262 02	6262 12	800 A
1	6262 03	6262 13	1000 A
1	6262 04	6262 14	1250 A
1	6262 05	6262 15	1600 A
1	6262 06	6262 16	2000 A
1	6262 07	6262 17	2500 A
1	6262 08	6262 18	3200 A
1	6262 09	6262 19	4000 A

Pack	Cat.Nos		Draw-out version
	3P	4P	In
1	6262 21	6262 31	630 A
1	6262 22	6262 32	800 A
1	6262 23	6262 33	1000 A
1	6262 24	6262 34	1250 A
1	6262 25	6262 35	1600 A
1	6262 26	6262 36	2000 A ⁽¹⁾
1	6262 27	6262 37	2500 A ⁽¹⁾
1	6262 28	6262 38	3200 A
1	6262 29	6262 39	4000 A

(1) Not equipped with adjustable rear terminals

DMX™-E

control and signalling auxiliaries and locking options



6262 64



6262 95



6263 04

Pack	Cat.Nos	Control and signalling auxiliaries
		Shunt trips
		Trip the breaker from a remote location when energized
1	6262 60	24/30 V _~
1	6262 62	110 V _~ - 50/60 Hz - 110 V _~
1	6262 64	220/240 V _~ - 50/60 Hz - 220/250 V _~
1	6262 65	415 V _~ - 50 Hz - 380/415 V _~ - 60 Hz
		Undervoltage releases
		Trip the breaker from a remote location when its voltage drops
1	6262 70	24/30 V _~
1	6262 71	48 V _~
1	6262 72	110 V _~ - 50 Hz
1	6262 73	110 V _~ - 60 Hz
1	6262 74	110 V _~
1	6262 77	240 V _~ - 50 Hz
1	6262 78	240 V _~ - 60 Hz
1	6262 79	380/415 V _~ - 50 Hz
1	6262 80	380/415 V _~ - 60 Hz
		Delayed undervoltage releases
		Trip the breaker from a remote location after a time delay when its voltage drops
1	6262 81	48 V _~
1	6262 82	110 V _~ - 50 Hz
1	6262 83	110 V _~ - 60 Hz
1	6262 84	110 V _~
1	6262 87	240 V _~ - 50 Hz
1	6262 88	240 V _~ - 60 Hz
1	6262 89	380/415 V _~ - 50 Hz
1	6262 90	380/415 V _~ - 60 Hz
		Motor operators
		To motorise a DMX-E, it is necessary to attach to the motor operator, a release coil (undervoltage or shunt trip) and a closing coil
1	6262 91	24/30 V _~
1	6262 92	48/60 V _~
1	6262 93	110 V _~ - 50/60 Hz - 110/125 V _~
1	6262 95	240 V _~ - 50/60 Hz - 250 V _~
1	6262 96	380/415 V _~ - 50/60 Hz - 400 V _~

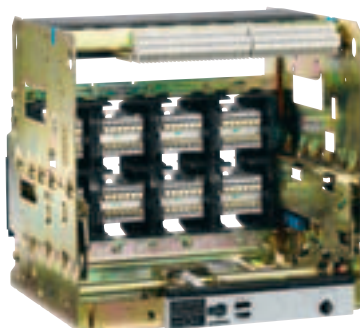
Pack	Cat.Nos	Control and signalling auxiliaries (continued)
		Closing coils
		Enables remote closing of the circuit breaker if the closing spring is charged
1	6263 00	24/30 V _~
1	6263 01	48/60 V _~
1	6263 02	110 V _~ - 50/60 Hz - 110 V _~
1	6263 04	240 V _~ - 50 Hz - 220/240 V _~ - 60 Hz - 220/250 V _~
1	6263 05	415 V _~ - 50 Hz - 380/415 V _~ - 60 Hz
		Signalling contacts
1	6263 11	Position signal contact
1	6263 17	Fault signal contact
1	6263 18	True "ready to close" contact
1	6263 15	Shunt release action signal contact
1	6263 16	Undervoltage release action signal contact
		Locking options
		Key locking in "open" position
		For lock (not supplied)
1	6263 40	Ronis
1	6263 41	Profalux
1	6263 42	Castell
1	6263 43	Kirk
		Key locking in "drawn-out" position
		1 or 2 locks for one DMX-E for lock (not supplied)
1	6263 45	Ronis
1	6263 46	Profalux
1	6263 47	Castell
1	6263 48	Kirk
		Door locking
1	6263 22	Prevents opening of the door with the circuit breaker closed For left or right hand side mounting door Door locking



For other voltage, please consult us

DMX™-E

equipment and accessories



6263 87

Pack	Cat.Nos
1	6263 80
1	6263 81
1	6263 82
1	6263 83

Equipment for supply invertors

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
The interlock unit are mounted on the right-hand side of the device (see p. 50)
Supplied complete with cable set

- 1 standard power supply + 1 standby power supply
- 3 power supplies
- 2 standard power supplies + 1 standby power supply
- 2 power supplies + 1 coupler

Conversion of a fixed device into a draw-out device

Converting a fixed device requires a base and a set of rear terminals

Bases for draw-out device

- For DMX-E 55 and DMX-E 65, $I_n \leq 1\,600\text{ A}$
- For DMX-E 65, $I_n = 2\,000$ and $2\,500\text{ A}$
- For DMX-E 80, $I_n = 2\,000$ and $2\,500\text{ A}$
- For DMX-E 80, $I_n = 3\,200$ and $4\,000\text{ A}$
- For DMX-E 100, $I_n = 2\,000$ and $2\,500\text{ A}$

Rear terminals

Rear terminals are supplied singly the number (for 3P, order 3 devices, for 4P, order 4 devices)

1	6263 30	Horizontal or vertical 400 - 1 600 A or 3 200 - 4 000 A
1	6263 31	Horizontal 2 000 - 2 500 A
1	6263 32	Vertical 2 000 - 2 500 A

Accessories

Rating mis-insertion device

Prevents the insertion of a draw-out circuit breaker in an incompatible base

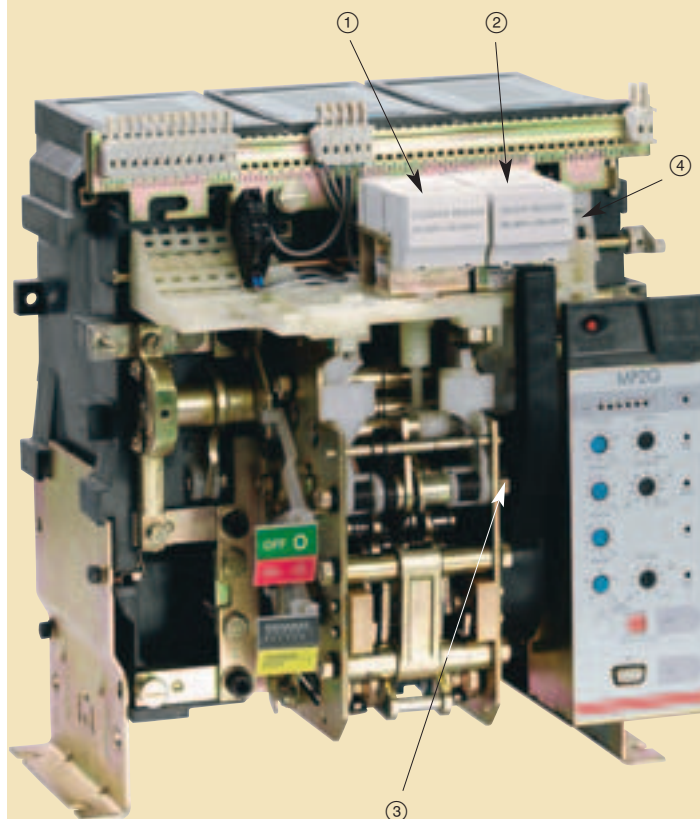
Operation counter

Counts total number of operation cycles

DMX™-E

air circuit breakers

Common auxiliaries from 800 to 4 000 A



- ① Closing coil
- ② Shunt trip
- ③ Contact indicating readiness to close
- ④ Operation counter

Number of control auxiliaries for DMX-E

Shunt release	1
Undervoltage release or delayed undervoltage release	1
Closing coil	1

Auxiliaries only for draw-out version

- Position indicating control
- Key lock in "draw-out" position
- Rating mis-insertion

DMX™-E - DMX™-EI

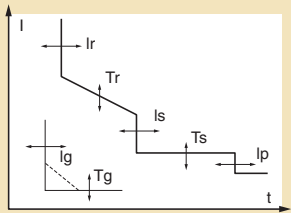
electrical characteristics



IEC EN 60947-2			DMX-E 55	DMX-E 65	DMX-E 80			DMX-E 100	DMX-EI		
			800 - 1 600	800 - 1 600	2 000 - 2 500	2 000 - 2 500	3 200 - 4 000	2 000 - 4 000	400 - 1 600	2 000 - 2 500	3 200 - 4 000
Rating (In) at 40 °C	A		800 - 1 600	800 - 1 600	2 000 - 2 500	2 000 - 2 500	3 200 - 4 000	2 000 - 4 000	400 - 1 600	2 000 - 2 500	3 200 - 4 000
Neutral protection			0 - 50 - 100 %						-		
Rated insulation voltage (Ui)	V		1 000	1 000	1 000	1 000	1 000	1 000	1 000	1 000	1 000
Rated impulse withstand voltage (Uimp)	kV		12	12	12	12	12	12	12	12	12
Rated operational voltage (Ue)	V		690	690	690	690	690	690	-	-	-
Ultimate breaking capacity (Icu) 50-60 Hz	400/415 V~	kA	55	65	65	80	80	100	-	-	-
	500/550 V~		50	55	55	70	65	85	-	-	-
	660/690 V~		42	50	50	55	55	75	-	-	-
Service breaking capacity (Ics) 50-60 Hz	400/415 V~		100 % Icu						-		
	500/550 V~										
	660/690 V~										
Short time withstand current (Icw)	t = 0.5 s	kA	55	65	65	80	80	100	143	176	220
	t = 1 s		50	50	55	65	65	70	121	154	187
	t = 3 s		23	26	35	35	42	50	105	121	165
Short-circuit making capacity (Icm) 50-60 Hz	400/415 V~	kA	121	143	143	176	176	220	143	176	220
	500/550 V~		105	121	121	154	154	187	121	154	187
	660/690 V~		88	105	105	121	121	165	105	121	165
Opening time	ms		40						-	-	-
Closing time	ms		60						-	-	-
Suitable for isolation			Yes						Yes		
Dimensions	Fixed version	width 3P	347	347	447	447	647	647	347	447	647
		width 4P	447	447	581	581	847	847	447	581	847
		depth	355						355		
		height	430						430		
	Draw-out version	width 3P	347	347	447	447	647	647	347	447	647
		width 4P	447	447	581	581	847	847	447	581	847
		depth	421						421		
		height	433						433		
Frame size			I	I	II	II	III	III	I	II	III

DMX™-E
electronic protection unit

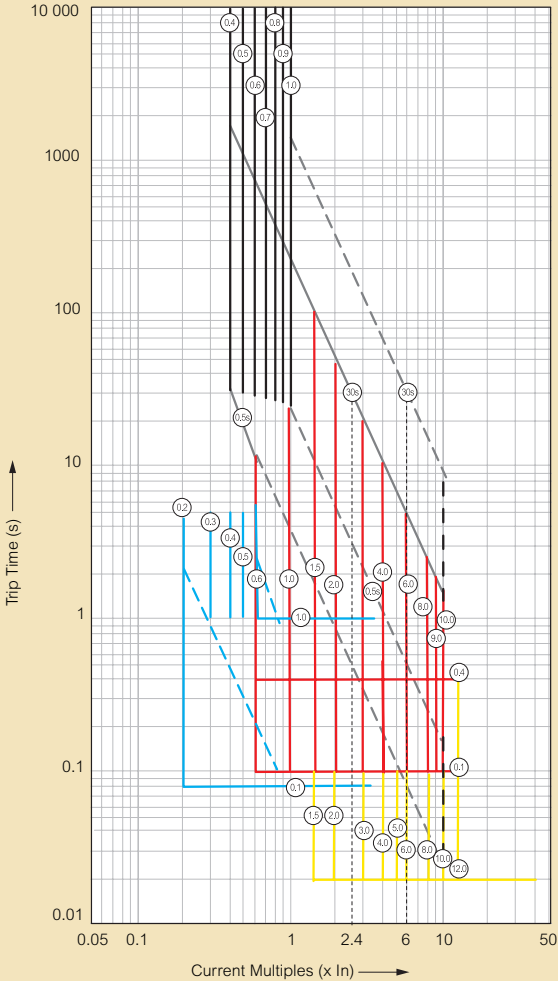
■ Protection unit MP 2G



Parameters		Settings
Overload	Ir	$I_r = I_n \times \dots$ 0.4 - 0.5 - 0.6 - 0.7 - 0.75 - 0.8 - 0.85 - 0.9 - 0.95 - 1
	Tr	Time delay in s at $6 \times I_r$ 0.5 - 1 - 2 - 4 - 6 - 8 - 12 - 18 - 24 - 30
	Neutral protection	$I_N = I_r \times \dots$ 0 % - 50 % - 100 %
Short-circuit	Is	$I_s = I_n \times \dots$ 0.6 - 1 - 1.5 - 2 - 3 - 4 6 - 8 - 9 - 10
	Ts	Time delay in ms at $10 \times I_n - I_{2t}$ Off 20 - 100 - 200 - 300 - 400
		Time delay in ms at $10 \times I_n - I_{2t}$ On 20 - 100 - 200 - 300 - 400
Instantaneous	Ip	$I_p = I_r \times \dots$ 1.5 - 2 - 3 - 4 - 5 - 6 - 8 - 10 - 12 - Max.
Ground fault	Ig	$I_g = I_r \times \dots$ 0.2 - 0.3 - 0.4 - 0.5 - 0.6
	Tg	Time delay in s - I_{2t} Off 0.1 - 0.2 - 0.3 - 0.4 - 1 - Off
		Time delay in s - I_{2t} On 0.1 - 0.2 - 0.3 - 0.4
Thermal memory		On/Off

LED indication for:

- device load percentage
- reason of tripping (overload, short-circuit, instantaneous, ground fault)
- presence of feeding voltage



selection tables
ACBs/ACBs and ACBs/MCCBs

■ In 3-phases networks 400-415 V~

ACBs/ACBs

		DMX-E upstream				
		1600 A	2000 A	2500 A	3200 A	4000 A
DMX-E downstream	800 A	T	T	T	T	T
	1000 A		T	T	T	T
	1250 A			T	T	T
	1600 A				T	T
	2000 A					T
	2500 A					
	3200 A					

ACBs/MCCBs

		DMX-E upstream							
		800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
DPX downstream	DPX 125	T	T	T	T	T	T	T	T
	DPX 160	T	T	T	T	T	T	T	T
	DPX 250 ER	T	T	T	T	T	T	T	T
	DPX 630	< 400 A	T	T	T	T	T	T	T
		400 A	T	T	T	T	T	T	T
		630 A		T	T	T	T	T	T
	DPX 1600	800 A			T	T	T	T	T
		1250 A						T	T
		1600 A						T	T
		1600 A						T	T

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

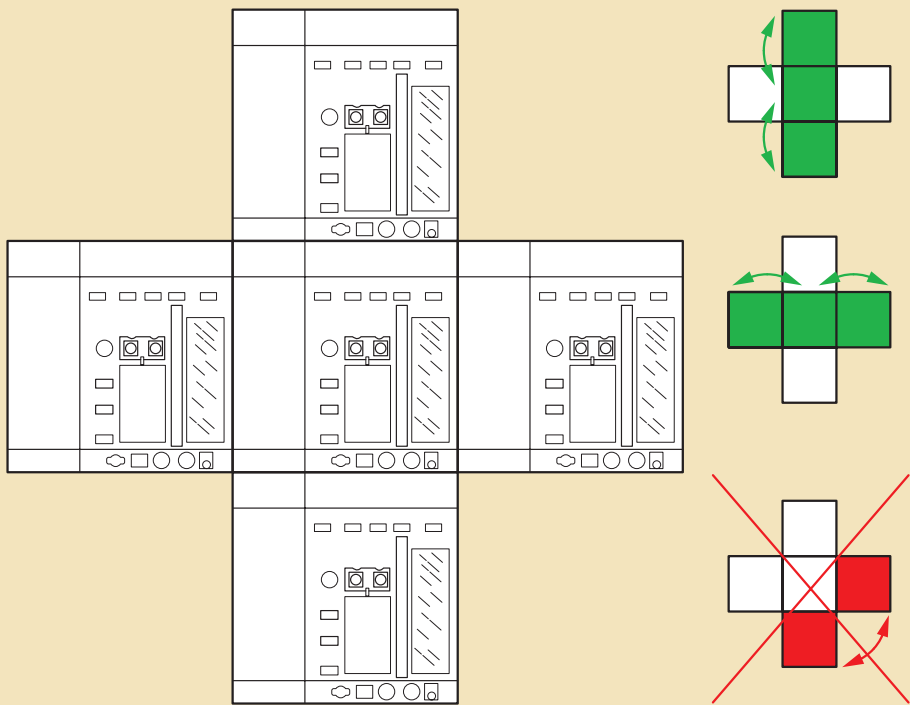
DMX™-E
mechanical interlock

Function: mechanical interlock is used for interlocking breakers as per the desired control scheme

Features: it can interlock up to 3 DMX-E breakers of fixed or draw-out versions
The breakers can be interlocked in vertical or horizontal configuration

■ Possible mounting arrangements

(cable length: 2 meters)



Type of Interlock	Typical circuit	Interlocks possible	Schematic diagram																								
Two Incomers		<table><tr><td>A</td><td>B</td></tr><tr><td>O</td><td>O</td></tr><tr><td>I</td><td>O</td></tr><tr><td>O</td><td>I</td></tr></table>	A	B	O	O	I	O	O	I	Cable length : 2 meters, min. Radius at cable bend : 70 mm																
A	B																										
O	O																										
I	O																										
O	I																										
Three Incomers		<table><tr><td>A</td><td>B</td><td>C</td></tr><tr><td>O</td><td>O</td><td>O</td></tr><tr><td>I</td><td>O</td><td>O</td></tr><tr><td>O</td><td>I</td><td>O</td></tr><tr><td>O</td><td>O</td><td>I</td></tr></table>	A	B	C	O	O	O	I	O	O	O	I	O	O	O	I	Cable length : 2 meters, min. Radius at cable bend : 70 mm									
A	B	C																									
O	O	O																									
I	O	O																									
O	I	O																									
O	O	I																									
Two Incomers One Standby		<table><tr><td>A</td><td>B</td><td>C</td></tr><tr><td>O</td><td>O</td><td>O</td></tr><tr><td>I</td><td>O</td><td>O</td></tr><tr><td>O</td><td>I</td><td>O</td></tr><tr><td>I</td><td>I</td><td>O</td></tr><tr><td>O</td><td>O</td><td>I</td></tr></table>	A	B	C	O	O	O	I	O	O	O	I	O	I	I	O	O	O	I	Cable length : 2 meters, min. Radius at cable bend : 70 mm						
A	B	C																									
O	O	O																									
I	O	O																									
O	I	O																									
I	I	O																									
O	O	I																									
Two Incomers One BusCoupler		<table><tr><td>A</td><td>B</td><td>C</td></tr><tr><td>O</td><td>O</td><td>O</td></tr><tr><td>I</td><td>O</td><td>O</td></tr><tr><td>O</td><td>I</td><td>O</td></tr><tr><td>I</td><td>O</td><td>I</td></tr><tr><td>O</td><td>I</td><td>I</td></tr><tr><td>I</td><td>I</td><td>O</td></tr><tr><td>I</td><td>O</td><td>I</td></tr></table>	A	B	C	O	O	O	I	O	O	O	I	O	I	O	I	O	I	I	I	I	O	I	O	I	Cable length : 2 meters, min. Radius at cable bend : 70 mm
A	B	C																									
O	O	O																									
I	O	O																									
O	I	O																									
I	O	I																									
O	I	I																									
I	I	O																									
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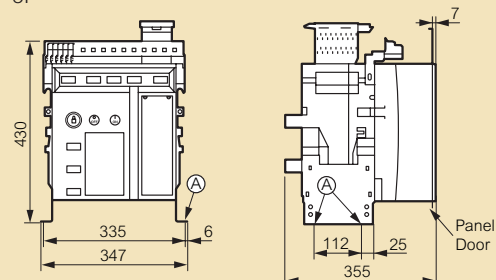
O - Breaker Open I - Breaker Closed

DMX™-E 55, DMX™-E 65, DMX™-EI up to 1 600 A

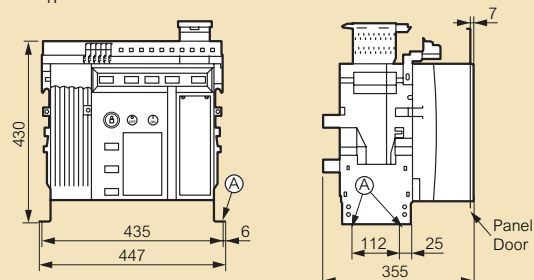
Dimensions

Fixed version

3P

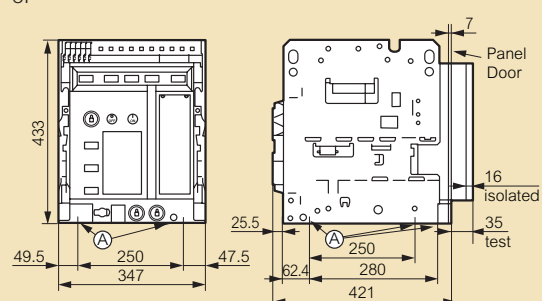


4P

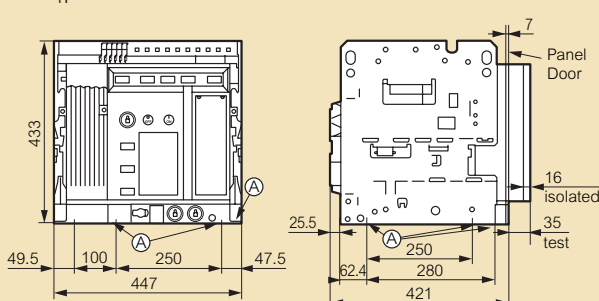


Draw-out version

3P

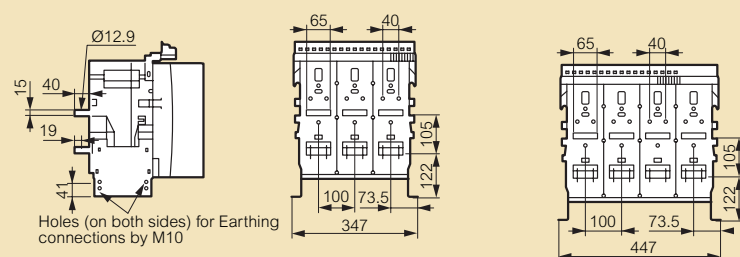


4P

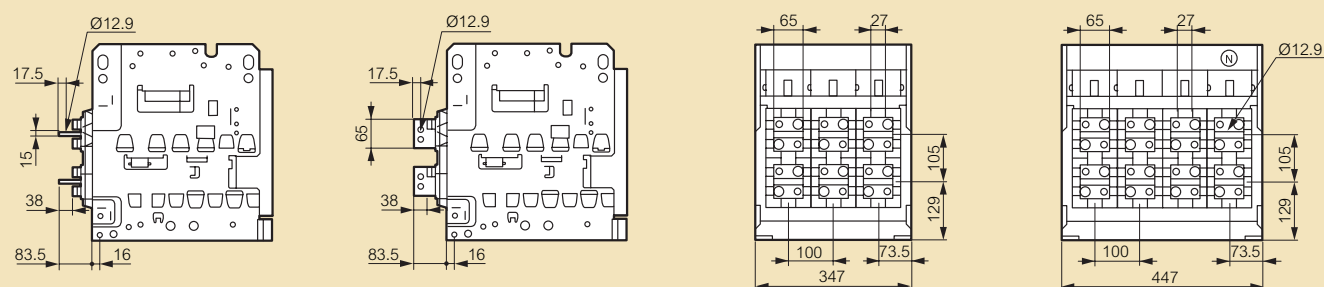


Connection

Fixed version 3P/4P

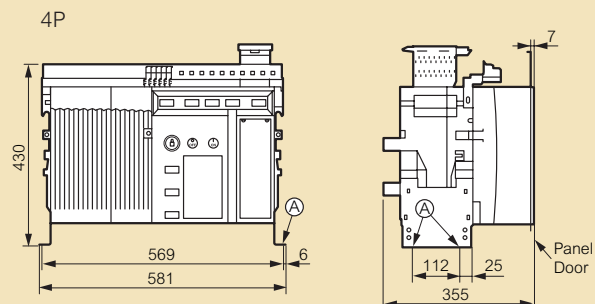


Draw-out version rear terminals 3P/4P

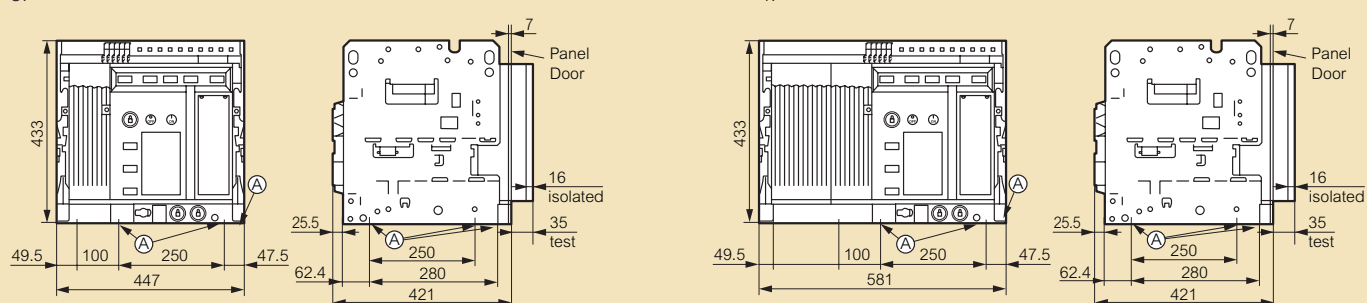


(A) Fixing holes suitable for M10

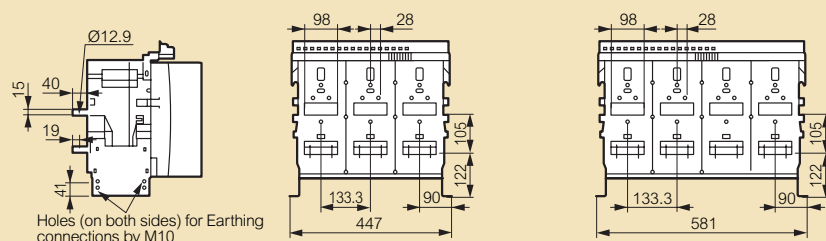
3P



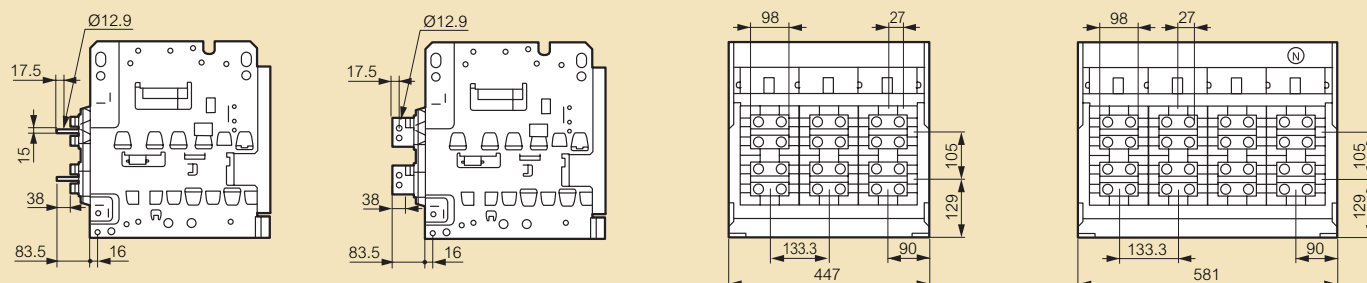
3P



Fixed version 3P/4P



Draw-out version rear terminals 3P/4P



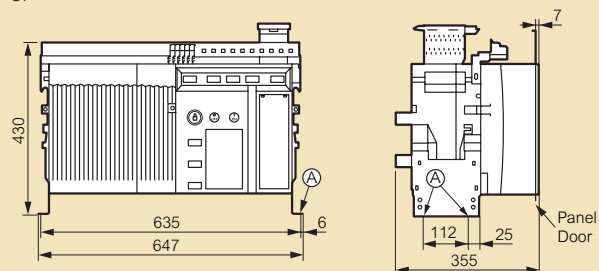
Ⓐ Fixing holes suitable for M10

DMX™-E 80, DMX™-E 100, DMX™-EI from 3 200 to 4 000 A

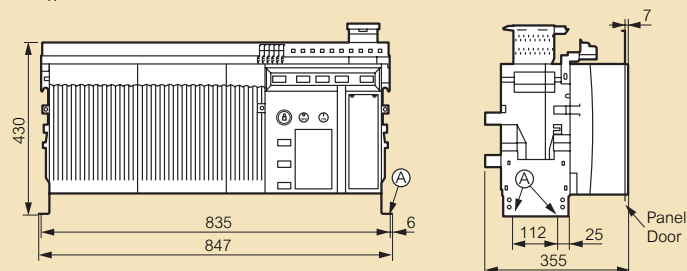
Dimensions

Fixed version

3P

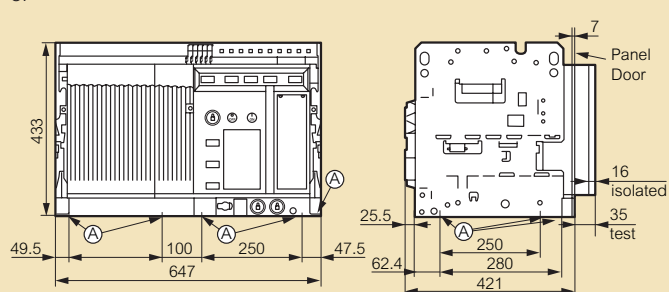


4P

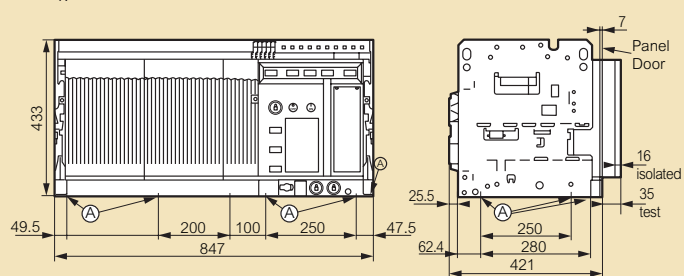


Draw-out version

3P

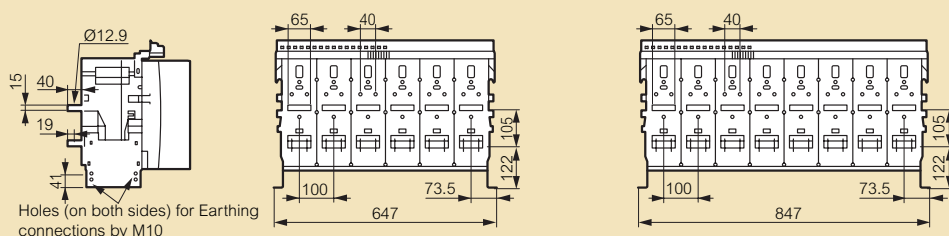


4P

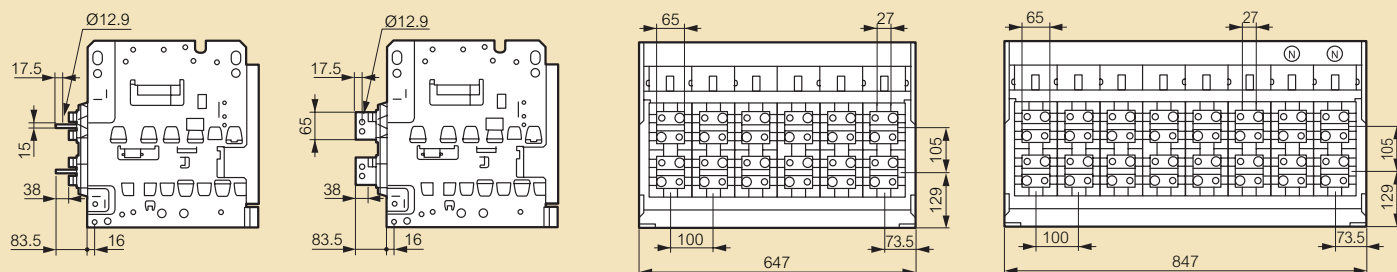


Connection

Fixed version 3P/4P



Draw-out version rear terminals 3P/4P

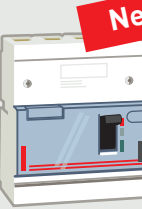


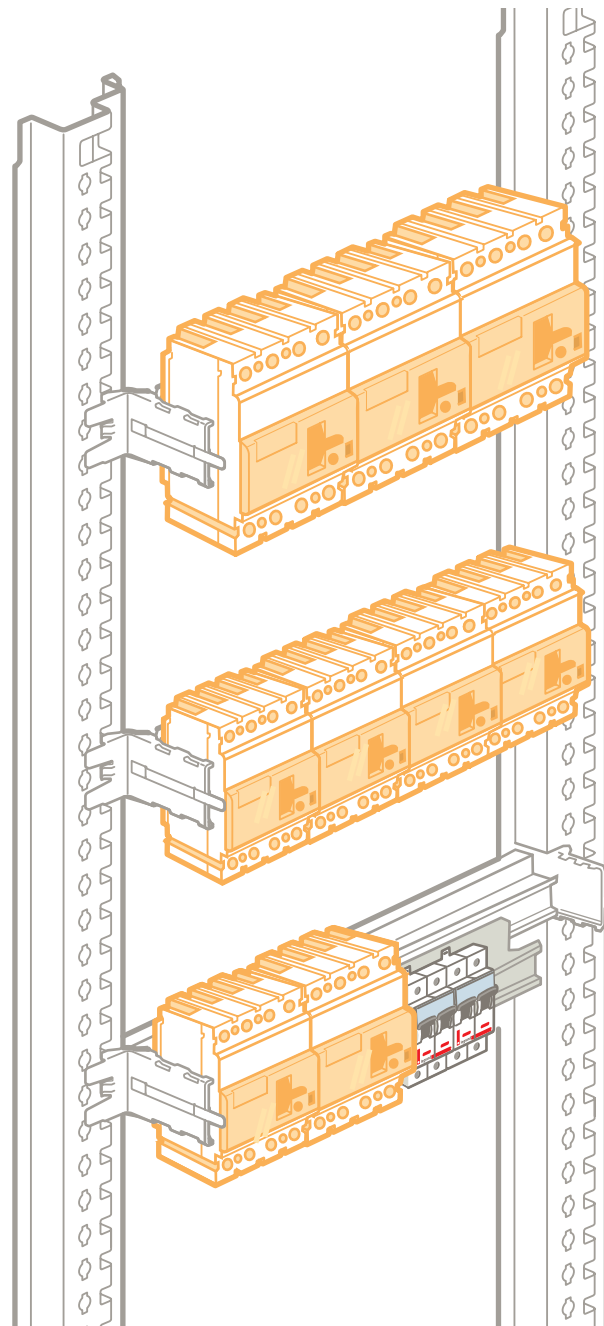
Ⓐ Fixing holes suitable for M10

DPX MCCBs from 16 to 250 A

"Moulded case" thermal-magnetic DRX 100 and 250, DPX 125, 160 and 250 ER
MCCBs protect and control circuits up to 250 A

The ranges

THE PRODUCTS	
- DRX • 2 SIZES OF UNIT 100 and 250 • 3 BREAKING CAPACITIES • THERMAL-MAGNETIC RELEASES	
- DPX • 3 SIZES OF UNIT 125, 160, 250 ER • 4 BREAKING CAPACITIES 16, 25, 36, 50 kA • THERMAL-MAGNETIC RELEASES • 2 VERSIONS - Fixed: in standard and XL-Part optimised distribution solutions - Plug-in (DPX 250 ER): in standard distribution solutions • 3 INSTALLATION METHODS On rail, plate or XL-Part 400 and 250 row distribution block • EQUIPEMENT - Rear terminals - Rotary handle - Motor-driven handle - Plug-in version (DPX 250 ER) - Earth leakage module - Terminal shield	



Supply inverter version (DPX)

- DPX 160 and 250 ER can be mounted as supply inverters on special plates with mechanical interlock
- The automation control unit and the motor-driven handles can be used to create totally automatic inverters

Installation principle (DPX)

DPX 16 to 250 A can be mounted in 3 different ways:

- **On rail for fixed versions**
Mounted in vertical position with or without side-mounted add-on module
- **On plate for fixed or plug-in versions**
Mounted in vertical or horizontal position with or without add-on module
- **On XL-Part row distribution block for fixed versions**
Mounted in vertical position with or without side-mounted add-on module

LEGRAND ADVANTAGES

- 1 1 device = 1 catalogue number
- 2 Mounting under modular faceplate whatever distribution solutions are used
- 3 Auxiliaries that are common to the entire range Mounted on front panel

 See the on-line catalogue: instructions, technical data sheets, etc.

 Come and be trained at Innoval see p. 409

DRX™ 100

thermal magnetic MCCBs from 15 to 100 A



Technical characteristics and curves (p. 60)

For switching, control, isolation and protection of low-voltage electrical lines
Can be fitted with auxiliaries
Supplied with:
- M5 terminal for $I_n \leq 50$ A and M8 range for $I_n > 50$ A
- Fixing screws
- Insulating shields (2 for 3P and 3 for 4P)
Fixed thermal and magnetic
Conform to IEC 60947-2, in compliance with NEMA

Pack	Cat.Nos		DRX 100
	3P	4P	Breaking capacity Icu 10 kA (415 V~)
1	270 00	270 10	In
1	270 01	270 11	15 A
1	270 02	270 12	20 A
1	270 03	270 13	25 A
1	270 04	270 14	30 A
1	270 05	270 15	40 A
1	270 06	270 16	50 A
1	270 07	270 17	60 A
1	270 08	270 18	75 A
1	270 09	270 19	100 A
	3P	4P	Breaking capacity Icu 20 kA (415 V~)
1	270 20	270 30	In
1	270 21	270 31	15 A
1	270 22	270 32	20 A
1	270 23	270 33	25 A
1	270 24	270 34	30 A
1	270 25	270 35	40 A
1	270 26	270 36	50 A
1	270 27	270 37	60 A
1	270 28	270 38	75 A
1	270 29	270 39	100 A
	1P ⁽¹⁾	2P	Breaking capacity Icu 35 kA (415 V~)⁽¹⁾
1	270 40	270 50	In
1	270 41	270 51	15 A
1	270 42	270 52	20 A
1	270 43	270 53	25 A
1	270 44	270 54	30 A
1	270 45	270 55	40 A
1	270 46	270 56	50 A
1	270 47	270 57	60 A
1	270 48	270 58	75 A
1	270 49	270 59	100 A
	3P	4P	Breaking capacity Icu 100 kA (415 V~)
1	270 60	270 70	In
1	270 61	270 71	15 A
1	270 62	270 72	20 A
1	270 63	270 73	25 A
1	270 64	270 74	30 A
1	270 65	270 75	40 A
1	270 66	270 76	50 A
1	270 67	270 77	60 A
1	270 68	270 78	75 A
1	270 69	270 79	100 A

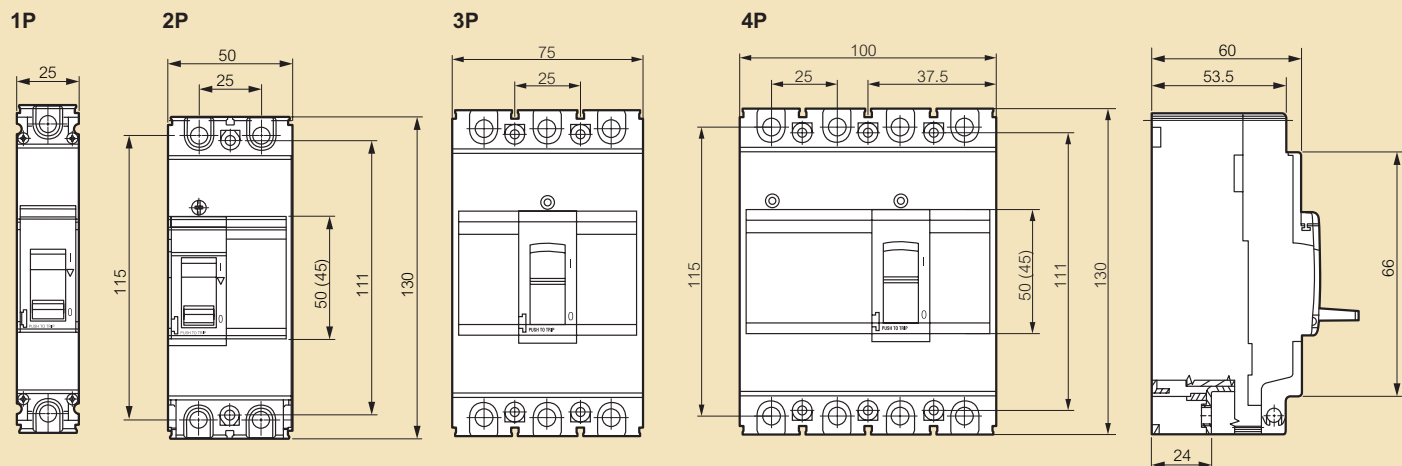
Pack	Cat.Nos	Mounting on rail
1	271 89	Plates for fixing DRX 100 on DIN rail
1	271 90	For 1P
1	271 87	For 2P
1	271 88	For 3P and 4P



Pack	Cat.Nos	Rotary handles
1	271 76	Direct on DRX Standard (grey)
1	271 77	Vari-depth handle Comprising: connecting rod, bracket, drilling template, mounting accessories, door locking mechanism Standard (grey)
		Connection accessories
		Insulating shields Used to isolate the connection between each pole Set of 2 Set of 3
1	271 81	3P
1	271 82	4P
1	271 83	3P
1	271 84	4P
1	271 91	2P
1	271 70	3P
1	271 71	4P
1	271 72	3P
1	271 73	4P
1	271 80	Sealable terminal shields Set of 2
		Cage terminals Set of 2
		Up to 50 A (inclusive) From 60 to 100 A
		Padlock For locking in "off" position (up to 3 locks)
		Electrical accessories
		Auxiliary contact blocks For left-hand side mounting Block with 1 auxiliary Block with 1 alarm Block with 1 auxiliary + 1 alarm
1	271 40	
1	271 41	
1	271 42	
1	271 50	Shunt trips 12 V~ and ...
1	271 51	24 V~ and ...
1	271 52	48 V~ and ...
1	271 53	100/130 V~
1	271 54	200/277 V~
1	271 55	380/480 V~
		Undervoltage releases 12 V~ and ...
1	271 60	24 V~ and ...
1	271 61	48 V~ and ...
1	271 62	110/130 V~
1	271 63	200/240 V~
1	271 64	380/415 V~
1	271 65	

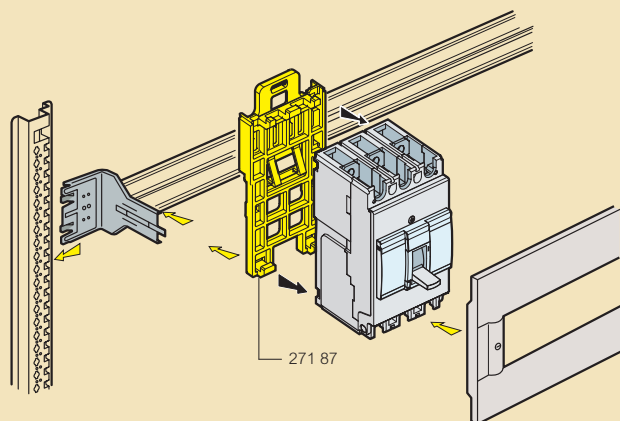
(1) Icu 25 kA (240 V~) for 1P

■ Dimensions

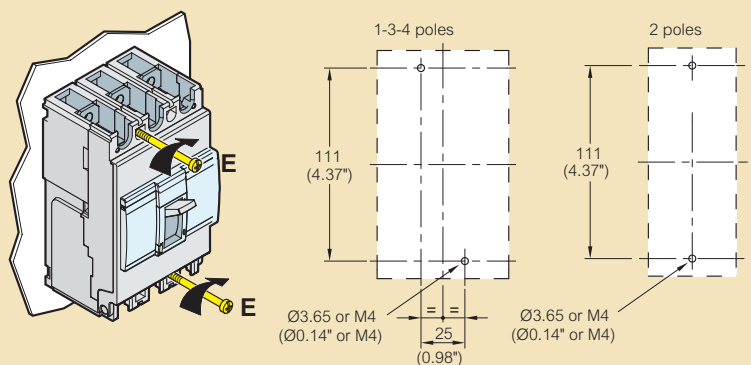


■ Mounting

Mounting on DIN rail with plate

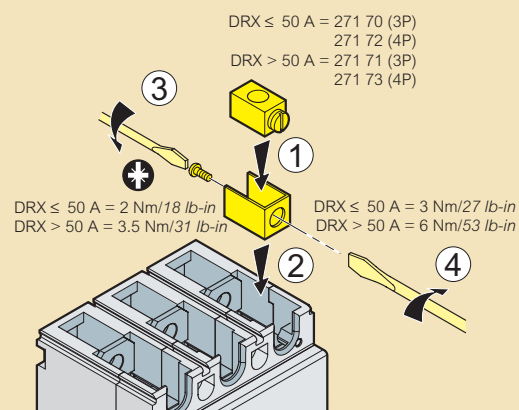


Fixing on plate



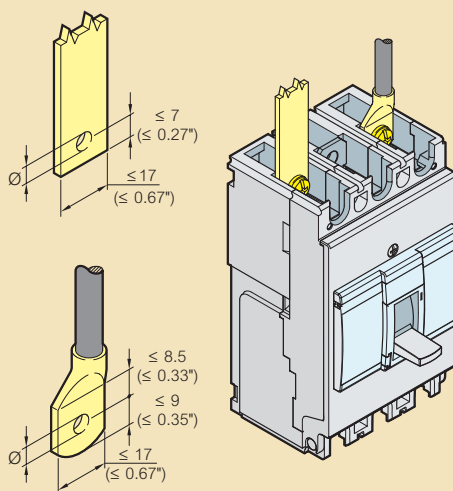
■ Connection

Connection via cable



DRX ≤ 50 A	DRX > 50 A
Flexible 2.5 → 16 mm ² #14 → #6 AWG	Flexible 10 → 35 mm ² #8 → #2 AWG
or Solid 2.5 → 25 mm ² #14 → #4 AWG	Solid 10 → 50 mm ² #8 → #1/0 AWG
12 0.47"	14 0.55"
2.5 to 4 mm ² #14 to #10 AWG flexible cables connection via crimped end-bars	

Connection via busbar



DRX ≤ 50 A	DRX > 50 A	DRX ≤ 50 A	DRX > 50 A
Ø 5.5 mm / 0.21"	Ø 8.5 mm / 0.33"	M5 2 Nm / 18 lb-in	M8 5.5 Nm / 49 lb-in

DRX™ 250

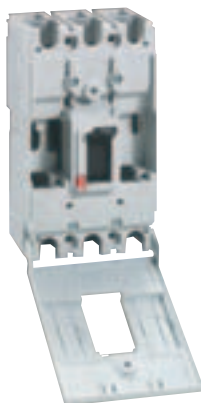
thermal magnetic MCCBs from 125 to 250 A



271 06



271 04



271 12 (captive cover)



271 88



271 74



271 80



Technical characteristics and curves (p. 61)

For switching, control, isolation and protection of low-voltage electrical lines
Can be fitted with auxiliaries

Supplied with:

- M8 terminals
- Fixing screws
- Insulating shields (2 for 3P and 3 for 4P)

Fixed thermal and magnetic

Conform to IEC 60947-2

Pack	Cat.Nos		DRX 250
	3P	4P	
1	271 00	271 06	Breaking capacity Icu 18 kA (415 V~)
1	271 01	271 07	In
1	271 02	271 08	125 A
1	271 03	271 09	150 A
1	271 04	271 10	175 A
1	271 05	271 11	200 A
1			225 A
1			250 A
			Breaking capacity Icu 25 kA (415 V~)
			In
1	271 12	271 18	125 A
1	271 13	271 19	150 A
1	271 14	271 20	175 A
1	271 15	271 21	200 A
1	271 16	271 22	225 A
1	271 17	271 23	250 A
			Breaking capacity Icu 36 kA (415 V~)
			In
1	271 24	271 30	125 A
1	271 25	271 31	150 A
1	271 26	271 32	175 A
1	271 27	271 33	200 A
1	271 28	271 34	225 A
1	271 29	271 35	250 A

Pack	Cat.Nos	Mounting on rail
1	271 88	Plate for fixing DRX 250 on DIN rail



Rotary handles

Pack	Cat.Nos	Direct on DRX
1	271 78	Standard (grey)



Vari-depth handle

Comprising: connecting rod, bracket, drilling template, mounting accessories, door locking mechanism

Pack	Cat.Nos	Standard (grey)
1	271 79	

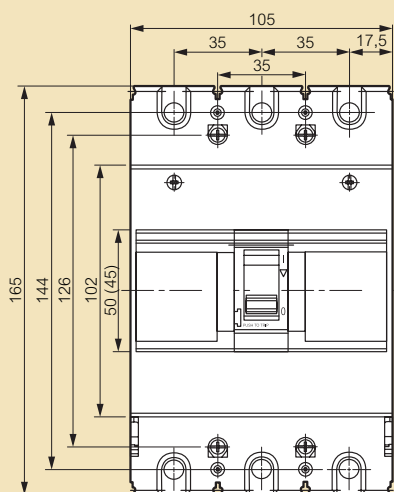
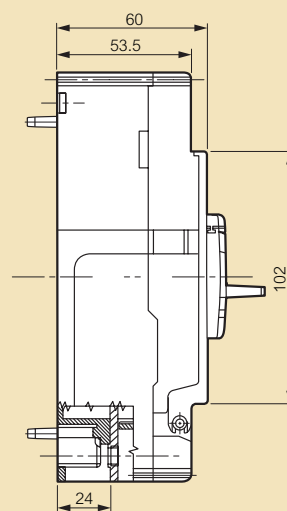
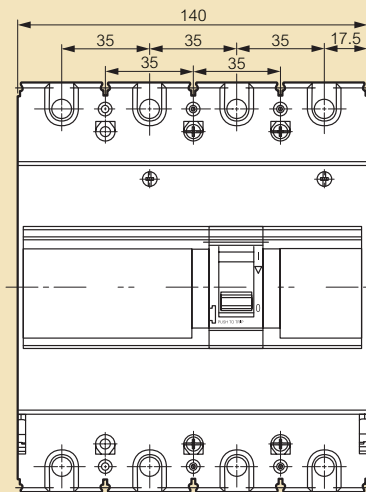
Pack	Cat.Nos		Connection accessories
	3P	4P	
1	271 81		Insulating shields
1		271 82	Used to isolate the connection between each pole
			Set of 2
			Set of 3
1	271 85	271 86	Sealable terminal shields
			Set of 2
1	271 74	271 75	Cage terminals
			Up to 250 A
1	271 80		Padlock
			For locking in "off" position



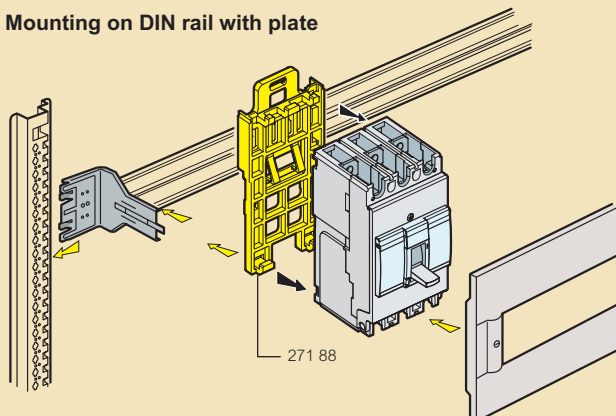
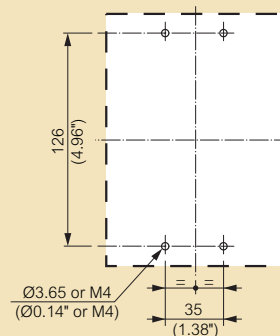
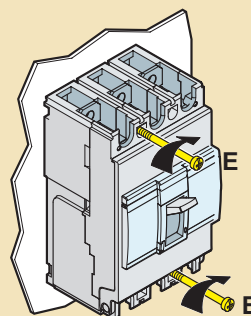
Pack	Cat.Nos	Electrical accessories
		Auxiliary contact blocks
		For left-hand side mounting
1	271 40	Block with 1 auxiliary
1	271 41	Block with 1 alarm
1	271 42	Block with 1 auxiliary + 1 alarm
		Shunt trips
1	271 50	12 V~ and ...
1	271 51	24 V~ and ...
1	271 52	48 V~ and ...
1	271 53	100/130 V~
1	271 54	200/277 V~
1	271 55	380/480 V~
		Undervoltage releases
1	271 60	12 V~ and ...
1	271 61	24 V~ and ...
1	271 62	48 V~ and ...
1	271 63	110/130 V~
1	271 64	200/240 V~
1	271 65	380/415 V~



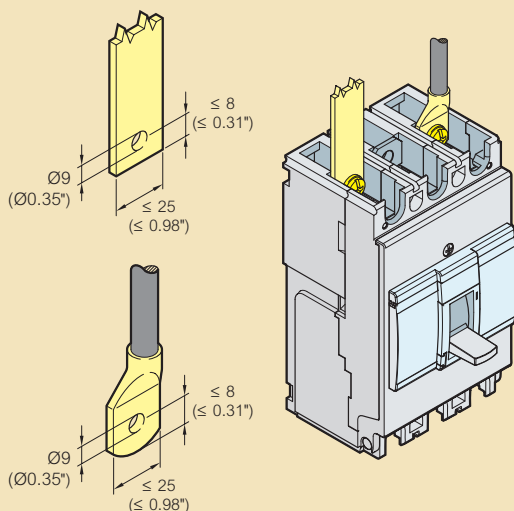
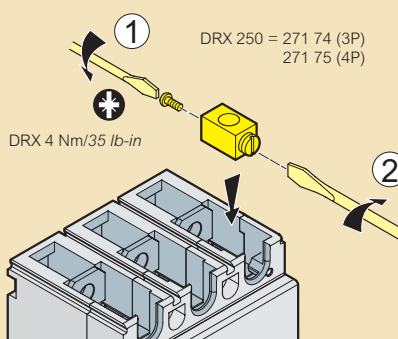
■ Dimensions

3P

4P


■ Mounting

Mounting on DIN rail with plate

Fixing on plate


■ Connection

Connection via busbar

Connection via cable

DRX 250 - 125 to 250 A

 Flexible
 35 mm² ➔ 120 mm²
 #2 ➔ #250 AWG

or

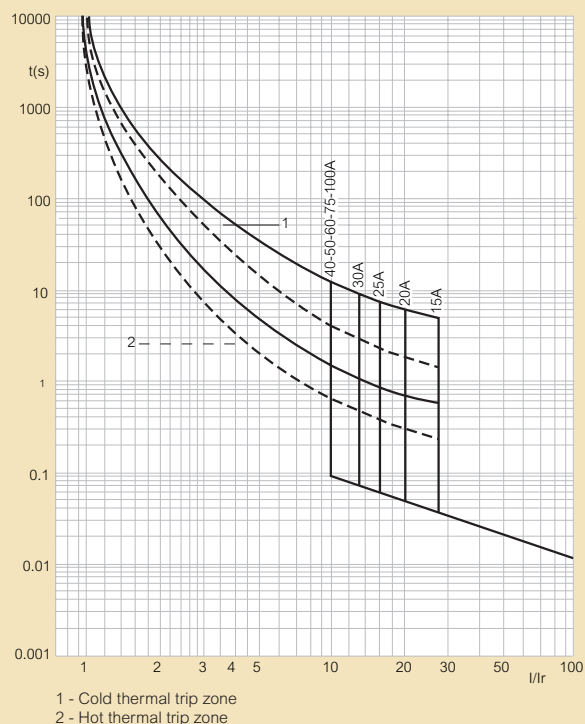
 Solid
 50 mm² ➔ 150 mm²
 #1/0 ➔ #300 AWG


For more information, ask for the complete document on DRX range

please consult us

■ Curve

DRX 100 $I_{max} = 100\text{ A}$ 1P - 2P - 3P - 4P

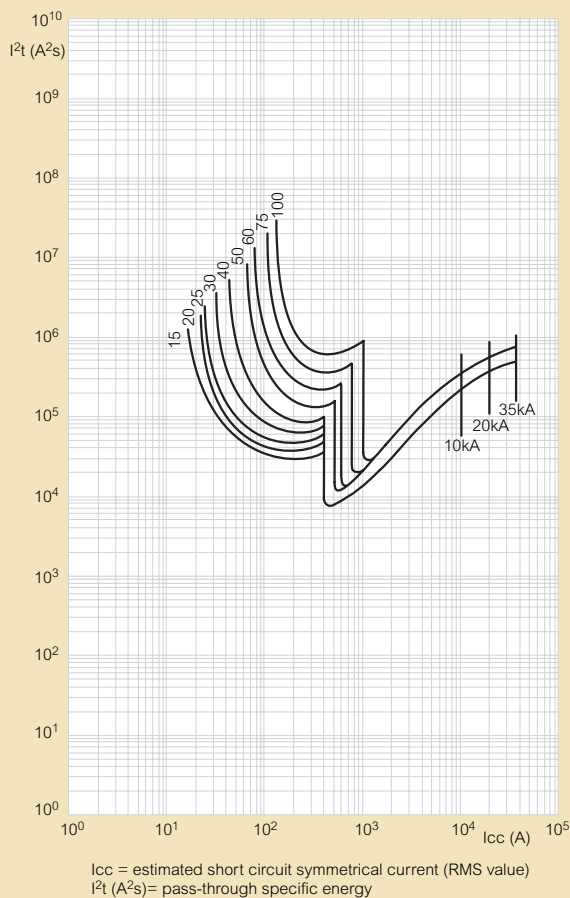


Let through specific energy characteristics

DRX 100 B-N-H Series

$I_n \max = 100\text{ A}$

3P - 4P - 415 V~



■ Technical characteristics

		DRX - 10 kA	DRX - 20 kA	DRX - 35 kA	DRX - 25 kA ⁽¹⁾
Number of poles		3P - 4P	3P - 4P	2P - 3P - 4P	1P
Nominal current I_n (A)		15-100	15-100	15-100	15-100
Neutral protection for 4P version (%)		100	100	100	
Rated insulation voltage U_i (V)		690	690	690	
Rated impulse withstand current I_{imp} (kV)		6	6	6	
Rated operating voltage (50/60 Hz) U_e (V)		600	600	600	
Ultimate breaking capacity I_{cu} (kA) IEC 60947-2	220/240 V	25	40	100	25
	380/415 V	10	20	35	
	440/460 V	10	15	30	
	480/550 V	7.5	10	20	
	600 V	5	5	10	
Ultimate breaking capacity I_{cu} (kA) NEMA AB-1	240 V	25	40	100	25
	480 V	7.5	10	20	
	600 V	5	5	10	
Standard breaking capacity I_{cs} (% I_{cu})		50	50	50	50
Category of use		A	A	A	A
Suitable for isolation		YES	YES	YES	YES
Endurance (cycles)	mechanical	25 000	25 000	25 000	25 000
	electrical at I_n	8 000	8 000	8 000	8 000
	electrical at 0.5 I_n	10 000	10 000	10 000	10 000

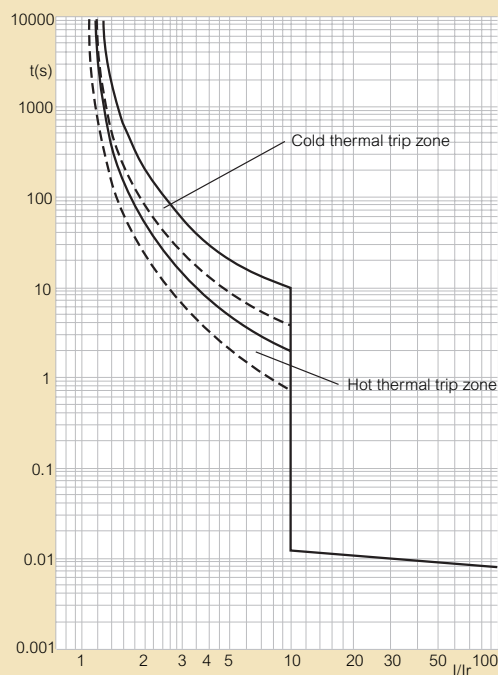
(1) 1P - I_{cu} 25 kA (220/240 V~)

DRX™ 250

technical characteristics and curves

Curve

DRX 250 I_{max} = 250 A 3P - 4P



Technical characteristics

		DRX - 18 kA	DRX - 25 kA	DRX - 36 kA
Number of poles		3P - 4P	3P - 4P	3P - 4P
Nominal current In (A)		125-250	125-250	125-250
Neutral protection for 4 P version (%)		100	100	100
Rated insulation voltage Ui (V)		690	690	690
Rated impulse withstand current Uimp (kV)		6	6	6
Rated operating voltage (50/60 Hz) Ue (V)		600	600	600
IEC 60947-2	Ultimate breaking capacity Icu (kA)			
	220/240 V~	35	50	65
	380/415 V~	18	25	36
	440/460 V	15	25	30
	480/500 V	10	15	20
	600 V	7.5	10	15
	240 V~	35	50	65
	480 V	10	15	20
	600 V	7.5	10	15
Nema AB-1				
	240 V~	35	50	65
	480 V	10	15	20
	600 V	7.5	10	15
Standard breaking capacity Ics (% Icu)		50	50	50
Category of use		A	A	A
Suitable for isolation		YES	YES	YES
Endurance (cycles)	mechanical	25 000	25 000	25 000
	electrical at In	8 000	8 000	8 000
	electrical at 0.5 In	10 000	10 000	10 000

DPX™ 125

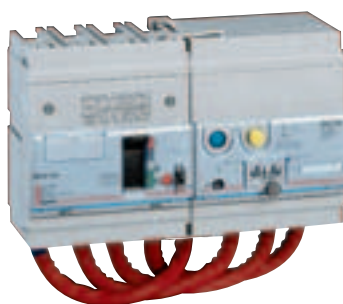
thermal magnetic MCCBs from 16 to 125 A



250 18



250 59



250 45 + 260 13



262 01



Dimensions (p. 78)

Electrical characteristics (p. 84)

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

Can be fitted with auxiliaries (p. 76)

Can be used with earth leakage modules or with residual current relays (p. 77)

Supplied complete with:

- cage terminals 70 mm² max.

- terminal shields

Thermal release adjustable from 0.7 to 1 In and sealable

Fixed magnetic at 10 In in factory (p. 86)

Conform to IEC 60947-2

Can be mounted on rail or on plate in XL³ cabinets and enclosures

Pack	Cat.Nos		DPX-E 125 - fixed version
	1P		Breaking capacity Icu 16 kA (230 V~)
	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
	3P	4P	Breaking capacity Icu 16 kA (400 V~)
	In		
1	250 16	250 24	16 A
1	250 17	250 25	25 A
1	250 18	250 26	40 A
1	250 19	250 27	63 A
1	250 20	250 28	100 A
1	250 21	250 29	125 A
	3P + N/2		In
1	250 23		125 A

Pack	Cat.Nos		DPX 125 - fixed version
	3P	4P	Breaking capacity Icu 25 kA (400 V~)
	In		
1	250 36	250 44	16 A
1	250 37	250 45	25 A
1	250 38	250 46	40 A
1	250 39	250 47	63 A
1	250 40	250 48	100 A
1	250 41	250 49	125 A
	3P + N/2		In
1	250 43		125 A
	3P	4P	Breaking capacity Icu 36 kA (400 V~)
	In		
1	250 50	250 58	16 A
1	250 51	250 59	25 A
1	250 52	250 60	40 A
1	250 53	250 61	63 A
1	250 54	250 62	100 A
1	250 55	250 63	125 A
	3P + N/2		In
1	250 57		125 A

Pack	Cat.Nos		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)
		In	
		63 A	
		125 A	
		Mounted underneath	
		63 A	
		125 A	
	3P	4P	
1	260 02	260 03	
1	260 12	260 13	
		260 04	
1		260 14	

Pack	Cat.Nos	Rotary handles
		Direct on DPX
		Standard (grey)
		For emergency use (red/yellow)
		Vari-depth handle IP 55
		Comprising: connection rod, bracket, drilling template, fixing accessories, door lock mechanism
		Standard (grey)
		For emergency use (red/yellow)
		Locking accessories
		Eurolocks for vari-depth handle
		Profalux for vari-depth handle
		Ronis for vari-depth handle
		Eurolocks for direct handle
1	262 01	
1	262 03	
1	262 75	
1	262 76	
1	262 92	
1	262 93	
1	262 94	
1	262 25	

Pack	Cat.Nos	Motor-driven handles
		Front operated
		24 V~
		230 V~
1	261 00	
1	261 03	

Pack	Cat.Nos		Accessories
	3P	4P	Sealable terminal shields
	Set of 2		
1	262 05	262 06	
			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	263 01	



DPX™ 160

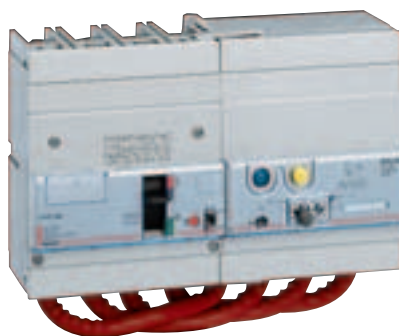
thermal magnetic MCCBs from 40 to 160 A



251 25



251 72



251 33 + 260 21



262 11



Dimensions (p. 79)
Electrical characteristics (p. 84)

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

Can be fitted with auxiliaries (p. 76)

Can be used with earth leakage modules or with residual current relays (p. 77)

Supplied complete with:

- connection plates for bars
- upstream and downstream connection devices for lugs (max. width 20 mm)
- terminal shields

Conform to IEC 60947-2

Can be mounted on rail or on plate in XL³ cabinets and enclosures

Pack	Cat.Nos	Fixed version
		Thermal adjustable from 0.64 to 1 In and sealable Fixed magnetic at 10 In in factory (p. 86)
		Breaking capacity Icu 25 kA (400 V~)
		In
1	3P 251 23 4P 251 31	63 A
1	251 24 251 32	100 A
1	251 25 251 33	160 A
		In
1	3P + N/2 251 27	160 A
		Breaking capacity Icu 36 kA (400 V~)
		In
1	3P 251 49 4P 251 57	63 A
1	251 50 251 58	100 A
1	251 51 251 59	160 A
		In
1	3P + N/2 251 53	160 A
		Breaking capacity Icu 50 kA (400 V~)
		In
1	3P 251 62 4P 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
		In
1	3P + N/2 251 67	160 A
		Supply inverter type
1	264 01	Mounting plate For mechanical interlocking of 2 DPX of the same size for use in normal or automatic modes
		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~
1	3P 260 20 4P 260 21	Mounted side by side (at right-hand side) 160 A
1	260 22	Mounted underneath 160 A

Pack	Cat.Nos	Rotary handles
		Direct on DPX Standard (grey) For emergency use (red/yellow)
1	262 11	
1	262 13	
		Vari-depth handle IP 55 Comprising: connecting rod, bracket, drilling template, fixing accessories, door lock mechanism Standard (grey) For emergency use (red/yellow)
1	262 77	
1	262 78	
		Locking accessories Eurolocks for vari-depth handle Profalux for vari-depth handle Ronis for vari-depth handle Eurolocks for direct handle
1	262 92	
1	262 93	
1	262 94	
1	262 25	
		Motor-driven handles
		Front operated 24 V~ 230 V~
1	261 10	
1	261 13	
		Accessories
		Sealable terminal shields Set of 2
1	3P 262 15 4P 262 16	
		Gate terminals Set of 4 For cable without lug 95 mm ² (rigid) or 70 mm ² (flexible) For cable without lug 120 mm ² (rigid) or 95 mm ² (flexible)
1	262 18	
1	262 19	
		Adaptator for lug Set of 4 (upstream or downstream) Supplied with insulated shield
1	262 17	
		Rear terminals Used to connect a fixed version with front terminals into fixed version with rear terminals Set of upstream and downstream rear terminals
1	3P 263 10 4P 263 11	

Mounting accessories and common accessories (p. 65)

DPX™ 250 ER

thermal magnetic MCCBs from 100 to 250 A

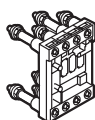


Dimensions (p. 80)
Electrical characteristics (p. 84)

MCCBs for switching, control isolation and protection of low voltage electrical lines
Can be fitted with auxiliaries (p. 76)
Can be used with earth leakage modules or with residual current relays (p. 77)
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 or on plate in XL³ cabinets and enclosures
Conform to IEC 60947-2

Pack	Cat.Nos		Fixed version
			Thermal adjustable from 0.64 to 1 In and sealable Fixed magnetic at 10 In in factory (p. 86)
	3P	4P	Breaking capacity Icu 25 kA (400 V~)
1	252 04	252 14	In
1	252 05	252 15	100 A
1	252 06	252 16	160 A
	3P + N/2		250 A
1	252 09		In
			Breaking capacity Icu 36 kA (400 V~)
	3P	4P	In
1	252 24	252 34	100 A
1	252 25	252 35	160 A
1	252 26	252 36	250 A
	3P + N/2		In
1	252 29		250 A
			Breaking capacity Icu 50 kA (400 V~)
	3P	4P	In
1	252 44	252 54	100 A
1	252 45	252 55	160 A
1	252 46	252 56	250 A
	3P + N/2		In
1	252 49		250 A

Pack	Cat.Nos		Plug-in version
			A plug-in is a DPX fitted with tulip contacts mounted on a base
	3P	4P	Tulip contacts
1	265 12	265 13	Set of tulip contacts (supplied with an incoming/outgoing protective cover)
			Bases
			Can accept DPX and DPX-I fitted with tulip contacts
1	265 14	265 15	For DPX only
1	265 16	265 17	Front terminal mounting base
			Rear terminal mounting base
			Connectors
			For connecting the auxiliaries included in the DPX
1	263 99		Set of connectors (8-pin)



Pack	Cat.Nos	Supply inverter type
1	264 02	Mounting plate For mechanical interlocking of 2 DPX of the same size for use in normal or automatic modes

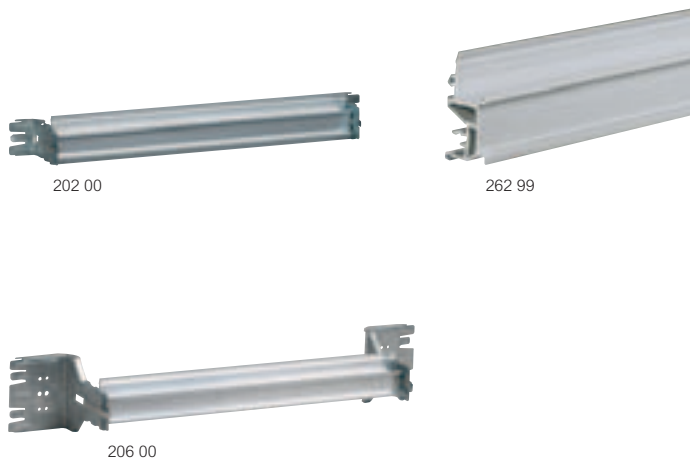
Pack	Cat.Nos	Electronic earth leakage modules
		Can be fitted onto DPX/DPX-I 250 ER Adjustable, sealable sensitivity: 0.03 - 0.3 - 1 - 3 A Adjustable, tripping: 0.03 - 0.3 - 1 - 3 s Test push-button Reset push-button Remote earth fault signalling contact Switch for mechanical tests (installation insulation test)
	4P	Mounted side by side (at right-hand side)
1	260 31	160 A
1	260 36	250 A
		Mounted underneath
1	260 33	160 A
1	260 38	250 A
		Rotary handles
		Direct on DPX
		Standard (grey)
1	262 11	For emergency use (red/yellow)
1	262 13	
		Vari-depth handle IP 55
		Comprising: connecting rod, bracket, drilling template, fixing accessories, door lock mechanism
1	262 77	Standard (grey)
1	262 78	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	3P	4P	Accessories
			Sealable terminal shields
1	262 85	262 86	Set of 2
			Cage terminals
1	262 88		Set of 4
			For cable without lug 185 mm ² (rigid) or 150 mm ² (flexible) for DPX 250 ER only ⁽¹⁾
	3P	4P	Spreaders
1	262 90	262 91	Set of incoming or outgoing spreaders
			Rear terminals
1	265 10	265 11	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 mounting accessories

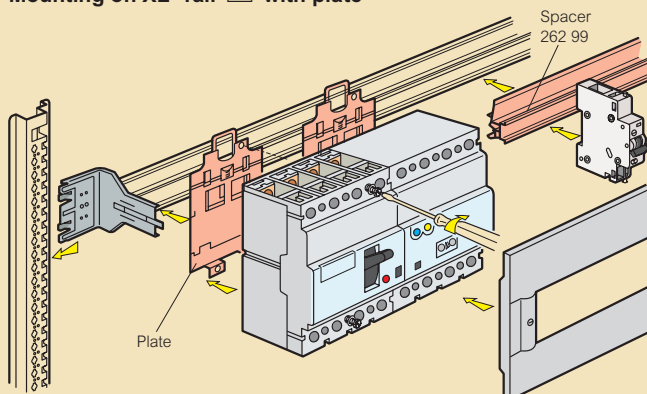


Pack	Cat.Nos	Mounting on XL³ rail
1	202 00	Rails Comprising one aluminium profile and 2 two-position fixing brackets For XL³ 400
1	206 00	For XL³ 800
1	206 50	For XL³ 800 and XL³ 4000 36 modules/row
1	262 08	Rail fixing plates For mounting DPX 125 or earth leakage module
1	262 09	For mounting DPX 160/250 ER or earth leakage module
1	262 99	Spacer Fits on a rail; used to mount on the same row DX and DPX/DPX-IS mounted on plate
1	202 10	Mounting on plate Plates for XL³ 400 Device only, vertical position
1	202 12	Device + earth leakage module, vertical position
1	202 14	Device only, horizontal position
1	262 07	Accessories Insulated shields Used to isolate the connection between each pole Set of 3
1	048 67	Distribution terminals 160 A - 6 outputs 25 mm² flexible Can be fitted directly onto downstream terminal of DPX 125/160, Vistop 100/160 A and DX 125
1	048 68	250 A - 4 outputs 35 mm² flexible and 2 outputs 25 mm² flexible Can be fitted directly onto downstream terminal of DPX 250/250 ER and DPX-IS 250
1	262 00	Padlocks For locking in "off" position For DPX 125
1	262 10	For DPX 160 and DPX 250 ER

DPX™ 125, 160 and 250 ER mounting

■ Mounting

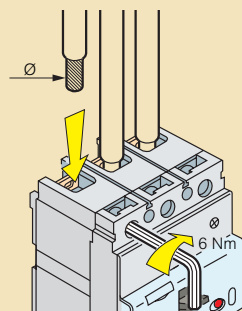
Mounting on XL³ rail with plate



■ Connection

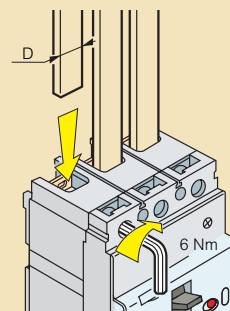
DPX front terminals

Connection with cables



DPX	125	160	250 ER
max. Ø	12	18	18

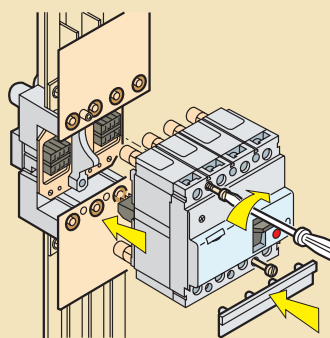
Connection with bars



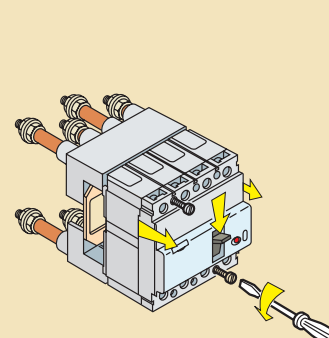
DPX	125	160	250 ER
D	12	18	18

Plug-in version (only DPX 250 ER)

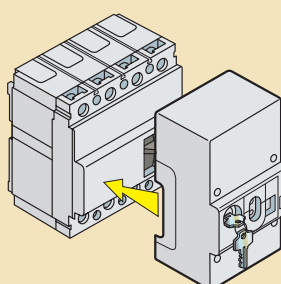
Front terminals



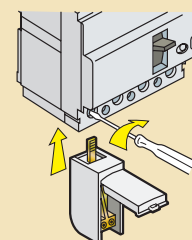
Rear terminals



■ Motor operator



■ Mounting of distribution terminal



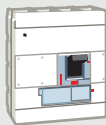
DPX MCCBs from 40 to 1600 A

“Moulded case” thermal-magnetic or electronic DPX MCCBs protect and control circuits up to 1 600 A

The range

THE PRODUCTS

- **3 SIZES OF UNIT**
250, 630, 1600
- **4 BREAKING CAPACITIES**
36, 50, 70 and 100 kA



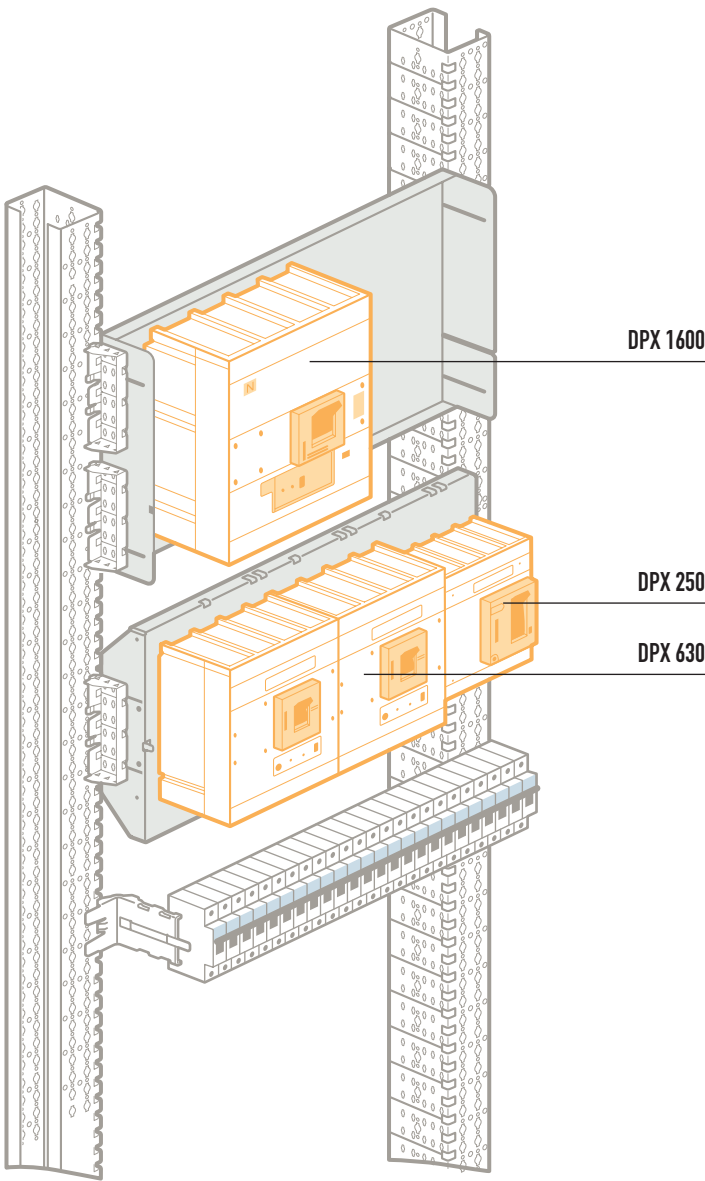
	DPX 250	DPX 630	DPX 1250 DPX 1600
36	X	X	
50			X
70	X	X	X
100	X	X	X ⁽¹⁾

[1] Only DPX 1250

- **3 VERSIONS**
 - Fixed, plug-in and draw-out
- **2 TRIPPING MODES**
 - Adjustable thermal magnetic
 - Electronic, 2 versions:
 - . S1: adjustment of Ir and Im, dynamic discrimination
 - . S2: adjustment of Ir, Im, Tr and Tm, dynamic and logical discrimination

EQUIPMENT

- Rear terminals
- Rotary handle
- Motor-driven handle
- Plug-in version
- Add-on module mounted underneath
- Terminal shield



SELECTIVITY TABLES FOR DPX (p. 87)

Trip	Settings	Discrimination		Plug-in integrated connectors
		Dynamic	Logical	
Thermal-magnetic			NO	NO
Electronic version S1		YES	NO	NO
Electronic version S2		YES	YES	YES

Supply inverter version

- DPX 250, 630 and 1600 can be mounted as supply inverters on special plates with mechanical interlock
- The automation control unit and the motor-driven handle can be used to create totally automatic inverters

Installation principle

- **Mounting on plate and on XL-Part bases**
for all versions: fixed, plug-in, draw-out
- **Positioning and direct attachment of the plates**
for fixed version DPX on functional uprights in XL³ enclosures
- **Sliding plates**
for all versions: plug-in, draw-out, motor-driven control, etc, in XL³ 4000 enclosures

LEGRAND ADVANTAGES

- 1 device = 1 catalogue number
- Mounting under faceplate whatever distribution solutions are used
- Auxiliaries that are common to the entire range. Mounted on front panel
- Choice of discrimination: dynamic and logical
- Can be drawn out with faceplate closed



See the Distribution and Power guide



Come and be trained at Innoval see p. 409

DPX™ 250

thermal magnetic and electronic release MCCBs from 40 to 250 A



253 49



253 52



254 23



254 31



Dimensions (p. 81)
Electrical characteristics (p. 84)

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

Can be fitted with auxiliaries (p. 76)

Can be used with earth leakage modules (opposite) or with residual current relays (p. 77)

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

Can be mounted on plate in XL³ cabinets and enclosures

Pack	Cat.Nos		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	In
1	253 28	253 45	40 A
1	253 29	253 46	63 A
1	253 30	253 47	100 A
1	253 31	253 48	160 A
1	253 32	253 49	250 A
	3P + N/2		In
1	253 41		160 A
1	253 42		250 A
			DPX-H 250 70 kA Breaking capacity Icu 70 kA (400 V~)
	3P	4P	In
1	253 52	253 69	40 A
1	253 53	253 70	63 A
1	253 54	253 71	100 A
1	253 55	253 72	160 A
1	253 56	253 73	250 A
	3P + N/2		In
1	253 66		250 A
			DPX-L 250 100 kA Breaking capacity Icu 100 kA (400 V~)
	3P	4P	In
1	253 80	253 89	100 A
1	253 81	253 90	160 A
1	253 82	253 91	250 A
	3P + N/2		In
1	253 88		250 A

Pack	Cat.Nos		DPX 250 electronic release
			Adjustment of Ir and Im (p. 86) Indicator lamp ⁽¹⁾ Connector for test unit Instantaneous protection If = 4 kA Dynamic selectivity
			DPX 250 36 kA Breaking capacity Icu 36 kA (400 V~)
	3P	4P ⁽²⁾	In
1	254 01	254 07	40 A
1	254 03	254 09	100 A
1	254 04	254 10	160 A
1	254 05	254 11	250 A
			DPX-H 250 70 kA Breaking capacity Icu 70 kA (400 V~)
			In
1	254 13	254 19	40 A
1	254 15	254 21	100 A
1	254 16	254 22	160 A
1	254 17	254 23	250 A
			DPX-L 250 100 kA Breaking capacity Icu 100 kA (400 V~)
			In
1	254 25	254 31	40 A
1	254 27	254 33	100 A
1	254 28	254 34	160 A
1	254 29	254 35	250 A

(1) Minimum current for indicator lamp operation (30 % of In)
green: normal - fixed red: $I \geq 0.9 I_r$ - flushing red: $I \geq 1.05 I_r$
(2) Adjustment of neutral on front panel

DPX™ 250 equipment



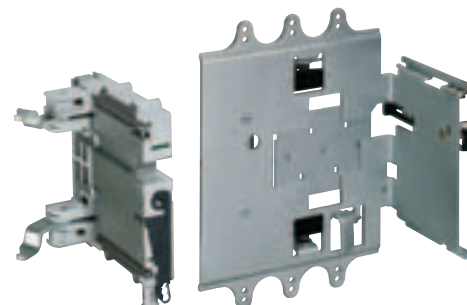
260 55



260 53



265 32



265 46

Pack	Cat.Nos		Electronic earth leakage modules
			Can be fitted onto DPX/DPX-I 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
			Standard
		In	
1	3P	260 51	160 A
1	260 54	260 55	250 A
			LED version
			Monitors the isolation state of the installation via a series of LEDs
		In	
1	4P	260 53	160 A
1	260 57		250 A

Pack	Cat.Nos		Plug-in version
			A plug-in is a DPX fitted with tulip contacts mounted on a base
			Tulip contacts
1	3P	265 29	Set of tulip contacts (supplied with an incoming/outgoing protective cover)
	4P	265 30	
			Bases for DPX only
			Accept DPX/DPX-I fitted with tulip contacts
1	265 31	265 32	Front terminal mounting base
1	265 33	265 34	Rear terminal mounting base with threaded rod
1	265 35	265 36	Flat rear terminal mounting base
			Bases for DPX with earth leakage module
1	4P	265 37	Front terminal mounting base
1	265 38		Rear terminal mounting base with threaded rod
1	265 39		Flat rear terminal mounting base
			Accessories
1	263 99		Set of connectors (8-pin)
1	098 19		Set of connectors (6-pin)
1	263 43		Set of 2 extractor handle

Pack	Cat.Nos		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
			"Debro-lift" mechanism
			Supplied with a rigid slide and handle for drawing-out
1	3P	265 45	For DPX base only
1	4P	265 46	For DPX base with earth leakage module
		265 47	
			Key lock for "Debro-lift" mechanism
			Enable locking of DPX in drawn-out position
1	265 76		1 key Ronis for DPX only
1	265 78		1 key Ronis 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)

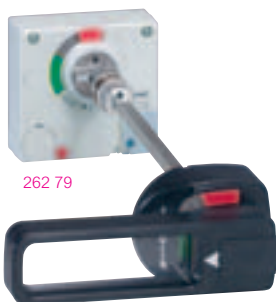
Pack	Cat.Nos		Supply inverter type
			A supply inverter type is composed of one plate with interlock for 2 devices
1	264 08		Plate for MCCB or trip-free switch fixed version
1	264 03		Plate for MCCB or trip-free switch plug-in and draw-out version

DPX™ 250

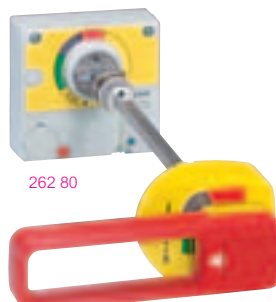
equipment and accessories



262 22



262 79



262 80



261 30

Pack	Cat.Nos	Rotary handles
1	262 22	Direct on DPX
1	262 24	Standard (grey)
		For emergency use (red/yellow)
		Can be fitted on Cat.No 262 22
		Vari-depth handle IP 55
		Comprising: connection rod, bracket, self-adhesive drilling template, mounting accessories and door lock mechanism
1	262 79	Standard (black)
1	262 80	Conversion kit for emergency use
		Can be fitted on Cat.No 262 79
		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

		Motor-driven handles
		Front operated
1	261 30	24 V~/~
1	261 34	230 V~/~
		Accessory
1	261 59	Ronis locking accessory

Pack	Cat.Nos	Accessories
1	262 30	Insulated shields
		Set of 3
1	262 26	Sealable terminal shields
1	262 28	Set of 2 long terminal shields
	262 29	Set of 2 short terminal shields
1	262 21	Padlock
		For locking in "open" position
1	262 35	Cage terminals
		Set of 4 terminals for cable 185 mm ² max. or 150 mm ² max. (flexible)
		Adaptor for lug
		For connecting bare cables with wide lug
1	262 31	Set of 1 adaptor + insulated shields
1	262 32	Extended front terminals
		Set of 4
1	262 33	Spreaders
	262 34	Set of spreaders incoming or outgoing
		Rear terminals
		Used to convert the fixed version with front terminals to the fixed version with rear terminals
1	263 31	Set of rear terminals, incoming or outgoing
1	265 27	Set of flat rear terminals, incoming or outgoing
	048 68	Distribution terminal 250 A
		250 A - 4 outputs 35 mm ² flexible and 2 outputs 25 mm ² flexible
		Can be fitted directly onto downstream terminal of DPX 250, 250 ER and DPX-IS 250

DPX™ 630

thermal magnetic and electronic release MCCBs from 250 to 630 A



255 40



255 53



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. 82)
Electrical characteristics (p. 84)

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

Can be fitted with auxiliaries (p. 76)

Can be used with earth leakage modules or with residual current relays (p. 77)

Supplied complete with:

- connection plates for bars
- terminal shields

Conform to IEC 60947-2 - Sealable adjustment

Can be mounted on plate in XL³ cabinets and enclosures

Pack	Cat.Nos		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~) I_n
	3P	4P	
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
	3P + N/2		I_n
1	255 32		320 A
1	255 33		400 A
1	255 35		500 A
1	255 34		630 A
			DPX-H 630 70 kA Breaking capacity I_{cu} 70 kA (400 V~) I_n
	3P	4P	
1	255 42	255 57	320 A
1	255 43	255 58	400 A
1	255 45	255 59	500 A
1	255 44	255 60	630 A
	3P + N/2		I_n
1	255 52		320 A
1	255 53		400 A
1	255 55		500 A
1	255 54		630 A
			DPX-L 630 100 kA Breaking capacity I_{cu} 100 kA (400 V~) I_n
	3P	4P	
1	255 62	255 77	320 A
1	255 63	255 78	400 A
1	255 65	255 79	500 A
1	255 64	255 80	630 A
	3P + N/2		I_n
1	255 73		400 A
1	255 75		500 A
1	255 74		630 A

Pack	Cat.Nos		DPX 630 electronic release S1
			Adjustment of I_r , I_m , (p. 72) Instantaneous protection $I_f = 5 kA$ Indicator lamp ⁽¹⁾ Connector for test unit Dynamic selectivity
			DPX 630 36 kA Breaking capacity I_{cu} 36 kA (400 V~) I_n
	3P	4P ⁽²⁾	
1	256 01	256 05	250 A
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~) I_n
1	256 10	256 14	400 A
1	256 11	256 15	630 A
			DPX-L 630 100 kA Breaking capacity I_{cu} 100 kA (400 V~) I_n
1	256 18	256 22	400 A
1	256 19	256 23	630 A

(1) Green indicator lamp
(2) Adjustment of neutral on front panel

DPX™ 630

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



256 35



260 63

DPX 630 electronic release S2

Pack	Cat.Nos		
			Adjustment of I_r , I_m , T_r , T_m (above) Instantaneous protection $I_f = 5$ kA Indicator lamp ⁽¹⁾ Connector for test unit Logic and dynamic selectivity
			DPX 630 36 kA Breaking capacity I_{cu} 36 kA (400 V~) I_n
	3P	4P ⁽²⁾	
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
400 A
630 A

LED version

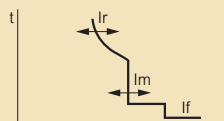
Monitors the isolation state of the installation via a series of LEDs

I_n
400 A
630 A

DPX™ 630

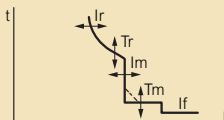
■ Performance data

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

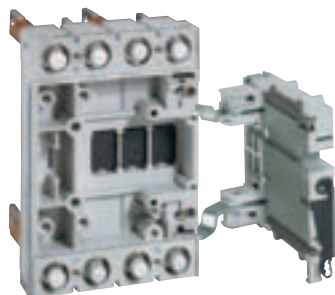


- Long delay protection against overloads with an adjustable threshold based on the rms value of the current:
 $I_r = 0.4 - 0.5 - 0.7 - 0.8 - 0.9 - 0.95 - 1 \times I_n$ (8 steps)
 $T_r = 5 - 10 - 20 - 30$ s (at 6 I_r) (4 steps)
- Short delay protection against short-circuits with an adjustable I_m threshold:
 $I_m = 1.5 - 2 - 3 - 4 - 5 - 6 - 8 - 10 \times I_r$ (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

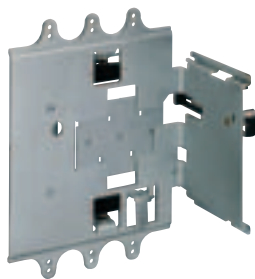
(1) Green indicator lamp
(2) Adjustment of neutral on front panel

DPX™ 630

equipment and accessories



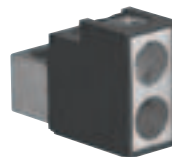
265 57



265 67



262 50



262 51



262 48

Pack	Cat.Nos		Plug-in version
	3P	4P	
1	265 50	265 51	A plug-in is a DPX fitted with tulip contacts mounted on a base Tulip contacts Set of tulip contacts (supplied with an incoming/outgoing protective cover) Bases for DPX only Accept DPX/DPX-I fitted with tulip contacts Front terminal mounting base Rear terminal mounting base with threaded rod Flat rear terminal mounting base Bases for DPX with earth leakage module Front terminal mounting base Rear terminal mounting base with threaded rod Flat rear terminal mounting base Accessories Set of 2 extractor handle Set of connectors (8-pin)
1	265 52	265 53	
1	265 54	265 55	
1	265 56	265 57	
	4P		
1	265 58		
1	265 59		
1	265 60		
1	263 68		
1	263 99		

Pack	Cat.Nos		Draw-out version
	3P	4P	
1	265 66	265 67	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 "Debro-lift" mechanism Supplied with a rigid slide and handle for drawing-out For DPX base only For DPX base with earth leakage module Key-lock for "Debro-lift" mechanism Enable locking of DPX in drawn-out position 1 key Ronis for DPX only 1 key Ronis for motorised DPX or with rotary handle Accessories for "Debro-lift" mechanism Isolated handle for drawing-out Signalling contact (plugged-in/drawn-out)
1	265 66	265 67	
1	265 68		
1	265 76		
1	265 78		
1	265 75		
1	265 74		

Pack	Cat.Nos		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 Plate for MCCB or trip-free switch plug-in and draw-out version
1	264 04		

Pack	Cat.Nos		Rotary handles
1	262 41		Direct on DPX Standard (grey) For emergency use (red/yellow) can be fitted on Cat.Nos 262 41 or 262 81
1	262 24		

Pack	Cat.Nos		Rotary handles (continued)
			Vari-depth handle IP 55 Comprising: connection rod, bracket, self-adhesive drilling template, mounting accessories and door lock mechanism Standard (grey) For emergency use (red/yellow) can be fitted on Cat.Nos 262 81 or 262 41 Locking accessories Eurolocks for vari-depth handle Profalux for vari-depth handle Ronis for vari-depth handle Eurolocks for direct handle
1	262 81		
1	262 82		
1	262 92		
1	262 93		
1	262 94		
1	262 25		
			Motor-driven handles
			Front operated 24 V~/~ 230 V~ Accessory Ronis locking accessory
1	261 40		
1	261 44		
1	261 59		

Pack	Cat.Nos		Accessories
	3P	4P	
1	262 30		Insulated shields Set of 3 Sealable terminal shields Set of 2 Padlock For locking in "OPEN" position Cage terminals Set of 4 terminals for cable 300 mm² max. (rigid) or 240 mm² max. (flexible) Set of 4 high-capacity terminals for cable 2 x 240 mm² (rigid) or 2 x 185 mm² (flexible) Adaptor for lug For connecting bare cables with wide lugs Set of 4 adaptors + insulated shields Extended front terminals Set of 4 Spreaders Set of spreaders, incoming or outgoing Rear terminals Used to convert the fixed version with front terminals to the fixed version with rear terminals Swivel terminals, incoming or outgoing Flat terminals, incoming or outgoing
1	262 44	262 45	
1	262 40		
1	262 50		
1	262 51		
1	262 46		
1	262 47		
1	262 48	262 49	
1	263 50	263 51	
1	263 52	265 53	

DPX™ 1 250 - 1 600

thermal magnetic and electronic release MCCBs from 800 to 1 600 A



258 04



257 08



Dimensions (p. 83)
Electrical characteristics (p. 84)

Moulded case MCBs 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. 77)
Supplied complete with:
- connection plates for bars
- terminal shields
Conform to IEC 60947-2
Fixed version - Sealable adjustment

Pack	Cat.Nos		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(1) 258 09	800 A
1	258 03	258 10	1 000 A
1	258 04	258 11	1 250 A
			DPX-H 1250 70 kA Breaking capacity Icu 70 kA (400 V~) In
1	258 16	258 23	800 A
1	258 17	258 24	1 000 A
1	258 18	258 25	1 250 A
			DPX-L 1250 100 kA Breaking capacity Icu 100 kA (400 V~) In
1	258 30	258 39	800 A
1	258 31	258 40	1 000 A
1	258 32	258 41	1 250 A

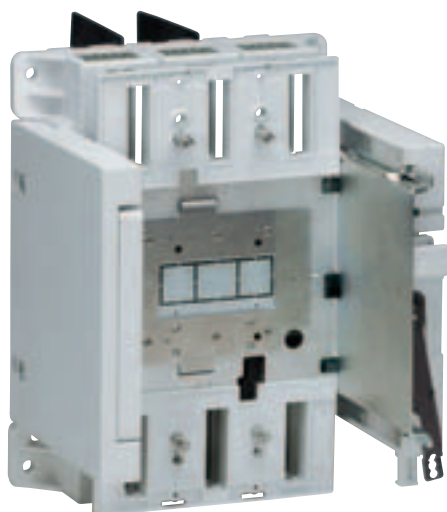
Pack	Cat.Nos		DPX 1600 electronic release S1
			Adjustment of Ir, Im Instantaneous protection If = 20 kA Indicator lamp ⁽²⁾ Connector for test unit Dynamic selectivity
			DPX 1600 50 kA Breaking capacity Icu 50 kA (400 V~) In
1	3P 257 02	4P(1) 257 06	800 A
1	257 03	257 07	1 250 A
1	257 04	257 08	1 600 A
			DPX-H 1600 70 kA Breaking capacity Icu 70 kA (400 V~) In
1	257 10	257 14	800 A
1	257 11	257 15	1 250 A
1	257 12	257 16	1 600 A

Pack	Cat.Nos		DPX 1600 electronic release S2
			Adjustment of Ir, Im, Tr, Tm Instantaneous protection If = 20 kA Indicator lamp ⁽²⁾ 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(1) 257 30	800 A
1	257 27	257 31	1 250 A
1	257 28	257 32	1 600 A
			DPX-H 1600 70 kA Breaking capacity Icu 70 kA (400 V~) In
1	257 34	257 38	800 A
1	257 35	257 39	1 250 A
1	257 36	257 40	1 600 A

(1) Neutral without protection
(2) Minimum current for indicator lamp operation (30 % In):
green: normal; fixed red: $I \geq 0.9 I_r$; flushing red: $I \geq 1.05 I_r$

DPX™ 1 250 - 1 600

equipment and accessories



265 84 (supplied assembled)



262 60



262 70



262 67 + 262 68

Pack	Cat.Nos	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 1 600 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
1	265 84	
1	265 85	
		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.Nos	Supply inverter type
		A supply inverter type is composed of one plate with interlock for 2 devices
1	264 10	Plate for MCCBs or trip-free switch fixed version
1	264 05	Plate for MCCBs or trip-free switch plug-in and draw-out version

Pack	Cat.Nos	Rotary handles
		Direct on DPX
1	262 61	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.Nos	Motor-driven handles
		Factory assembled
		Front operated
1	261 54	230 V~
1	261 59	Ronis locking accessory

Pack	Cat.Nos	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
	4P 262 65	
1	262 60	Padlock
		For locking in "open" position
1	262 69	Cage terminals
		For cables without lug
		2 x 240 mm ² (rigid) or
		2 x 185 mm ² (flexible)
1	262 70	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	For 630 - 1 250 A (2 bars max. per pole)
1	262 68	For 1 600 A (3 bars max. per pole)
		Spreaders
1	3P 262 73	Set of spreaders, incoming or outgoing
	4P 262 74	
		Rear terminals
		Used to convert the fixed version with front terminals to the fixed version with rear terminals
1	263 80	Set of short rear terminals, incoming or outgoing
1	263 81	Set of long rear terminals, incoming or outgoing

DPX™ auxiliaries



261 85



261 93

Pack	Cat.Nos	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~

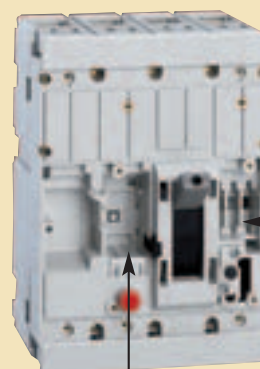
		Releases
		Allow remote tripping of a DPX
		Shunt releases
		For DPX-IS/DPX-I and DPX
		Shunt inrush power 300 VA
1	261 64	Coil voltage 24 V~/~
1	261 65	Coil voltage 48 V~/~
1	261 66	Coil voltage 110 V~/~
1	261 67	Coil voltage 230 V~/~
1	261 68	Coil voltage 400 V~/~
		Undervoltage releases
		For DPX-IS/DPX-I and DPX
		Undervoltage power consumption 5 VA
1	261 70	Coil voltage 24 V~
1	261 71	Coil voltage 24 V~
1	261 72	Coil voltage 48 V~
1	261 76	Coil voltage 110 V~
1	261 73	Coil voltage 230 V~
1	261 74	Coil voltage 400 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 91	Time-lag modules 400 V~
1	261 75	Undervoltage releases for DPX-IS, DPX 125 and DPX 160
1	261 85	Undervoltage releases for DPX 250 ER to 1600

		Electronic test unit
1	261 97	Test connector and software for connecting DPX to a PC Supplied with test software

		Automation control unit
		For setting the conditions for supply inversion, generator on loft status acquisition for DMX and DPX circuit-breakers, open/closed
		Power supply: 230 V~ and 12-24-48 V~
		Connection by plug-in terminals
1	261 93	Standard unit
1	261 94	Communicating unit, enabling data transmission (RS 485 port)

DPX™ auxiliaries



Auxiliary contact or fault signal

A singly Cat.No 261 60 auxiliary contact or fault signal



Undervoltage releases



Shunt releases



Time-lag undervoltage releases

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	—	—
With release	DPX-IS 250	1	1	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
DPX 250	2	1	1
DPX 630	2	2	1
DPX 1600	3	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

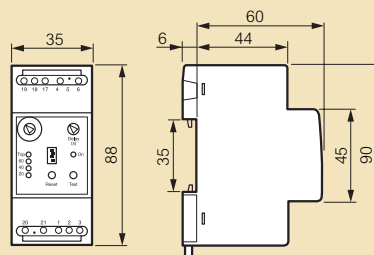
Pack	Cat.Nos	Residual current relay
1	260 88	Detects fault currents, and, when used with a shunt trip or an undervoltage release, it gives the trip command to a MCCB or a switch - Comprises: - a tinged, sealable window - an auxiliary contact - a green Led indicating energisation 3 yellow Leds indicating 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
		Number of modules 2

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

residual current relay and coils

Residual current relay

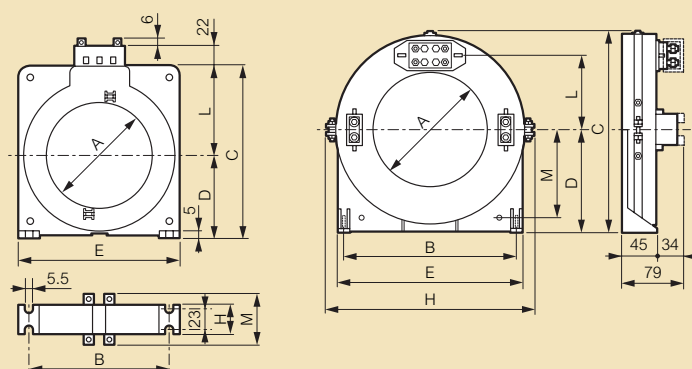
Cat.No 260 88



Coils

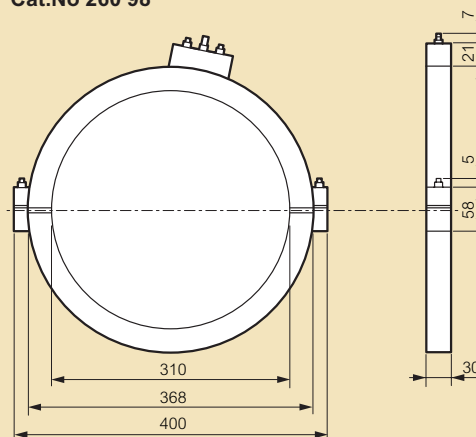
Cat.Nos 260 92/93/94/95/96

Cat.No 260 97



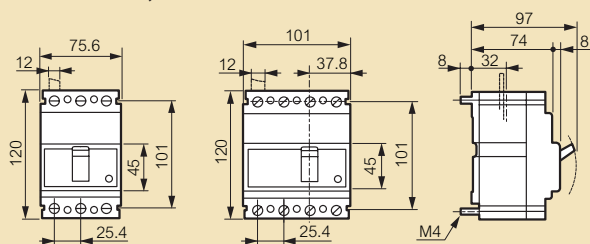
Cat.Nos	A	B	C	D	E	H	L	M
260 92	35	75	85	42	92	36	43	56
260 93	80	108	132	67	125	36	65	56
260 94	110	148	170	86	165	36	84	56
260 95	140	177	206	104	200	36	102	56
260 96	210	270	295	150	290	44	145	64
260 97	150	225	259	133	245	275	95	113

Cat.No 260 98

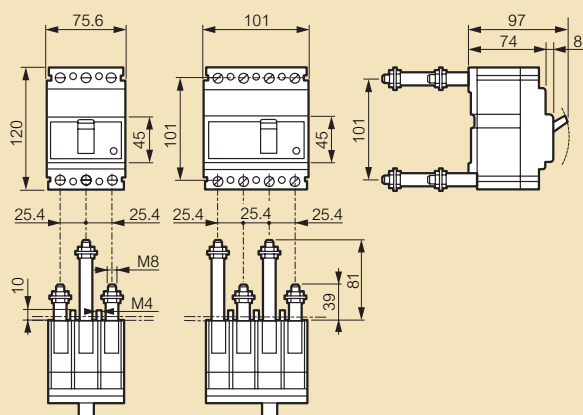


■ Dimensions

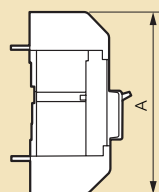
Fixed version, front terminals



Fixed version, rear terminals

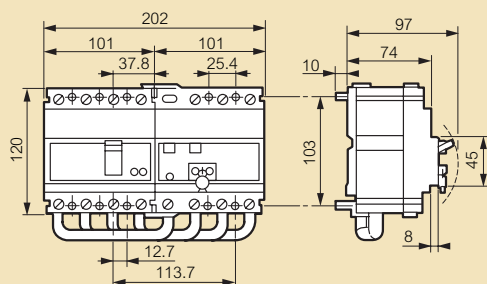


Terminal shields

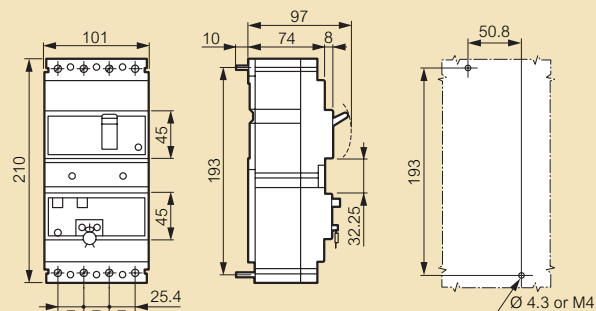


	A
DPX 125	170
DPX 125 + earth leakage module mounted underneath	260

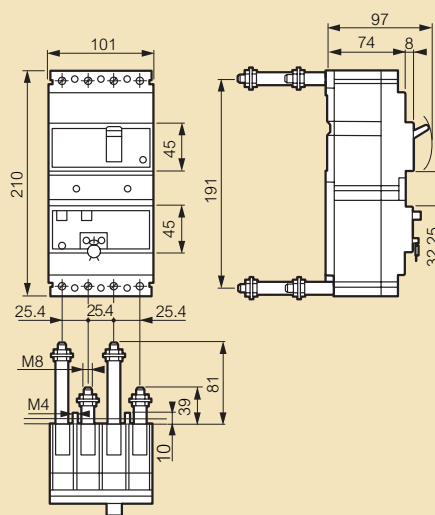
Fixed version, front terminals with earth leakage module mounted side by side⁽¹⁾



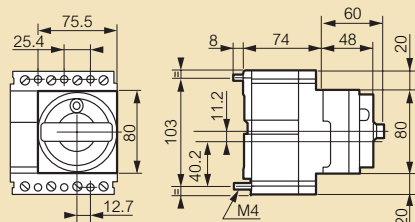
Fixed version, front terminals with earth leakage module mounted underneath



Fixed version, rear terminals with earth leakage module mounted underneath

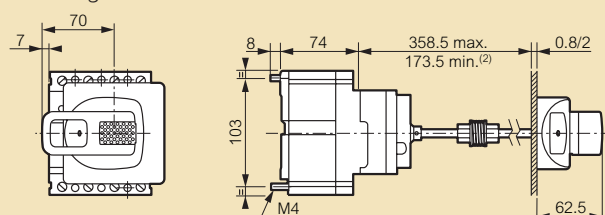


Rotary handle-direct on DPX



Rotary handle-vari-depth on door

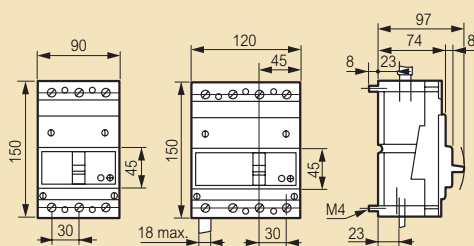
Mounting with flexible seal



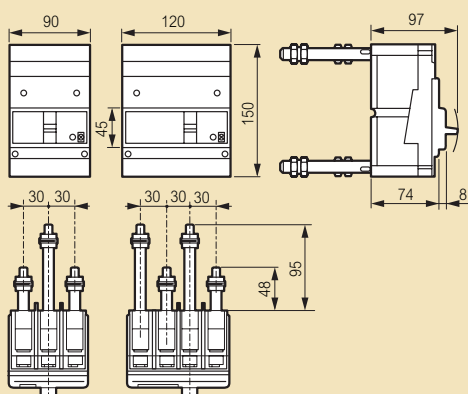
- (1) Dimensions of 3-pole earth leakage modules are the same as 4-pole earth leakage modules
(2) 70 mm without mechanical system

■ Dimensions

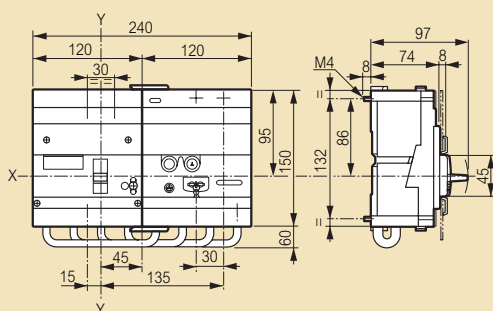
Fixed version, front terminals



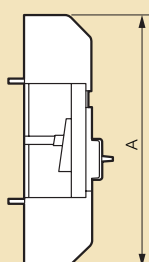
Fixed version, rear terminals



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

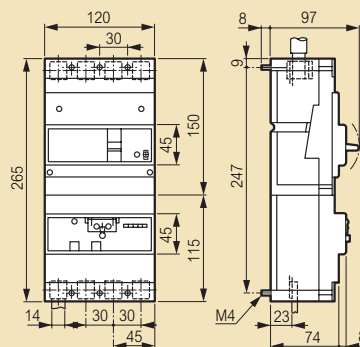


Terminal shields

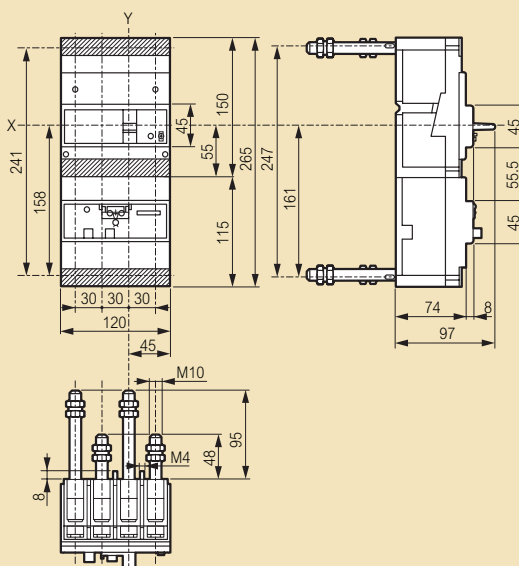


	A
DPX 160	278
DPX 160 + earth leakage module mounted underneath	393

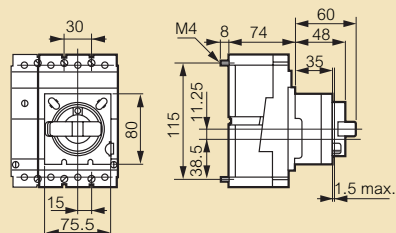
Fixed version, front terminals with earth leakage module mounted underneath



Fixed version, rear terminals with earth leakage module mounted underneath

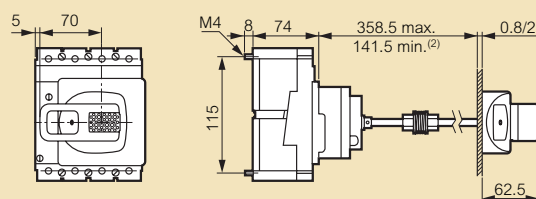


Rotary handle direct on DPX



Rotary handle-vari-depth on door

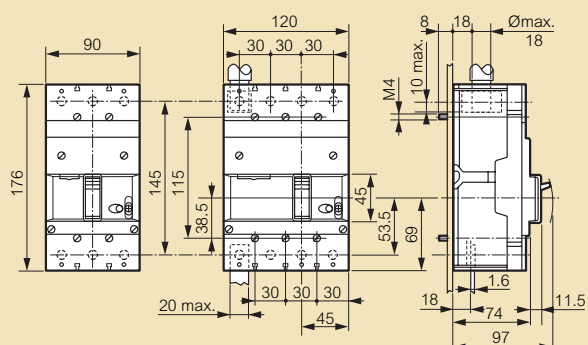
Mounting with flexible seal



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

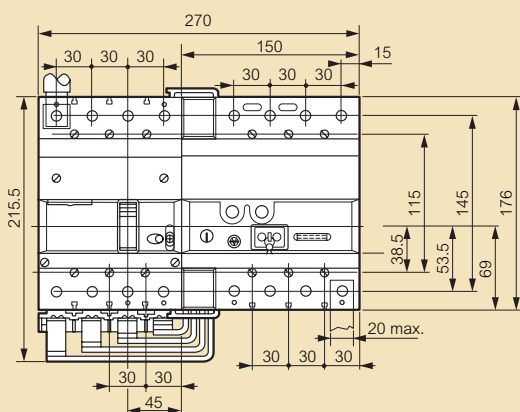
■ Dimensions

Fixed version, front terminals

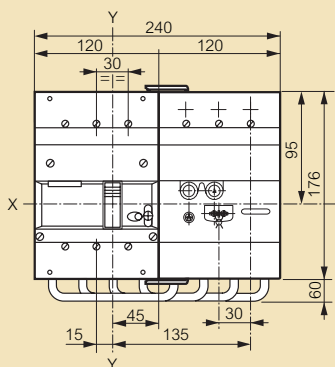


Fixed version, front terminals with earth leakage module mounted side by side⁽¹⁾

250 A



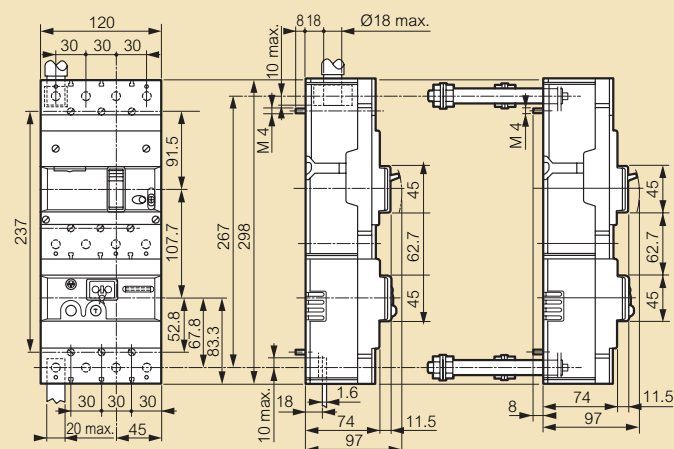
160 A



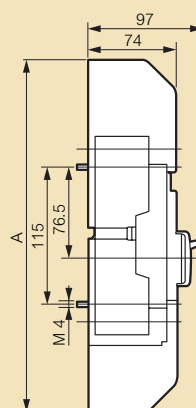
Fixed version with earth leakage module mounted underneath

Front terminals

Rear terminals

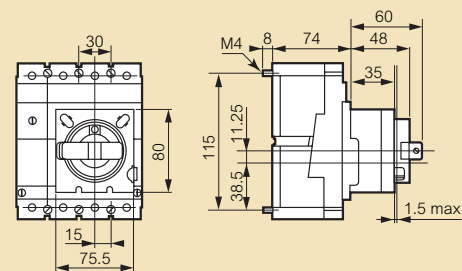


Terminal shields



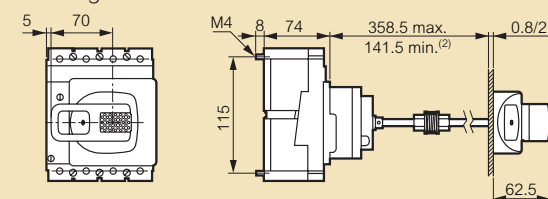
	A
DPX 250 ER	296
DPX 250 ER + earth leakage module	418

Rotary handle-direct on DPX



Rotary handle-vari-depth on door

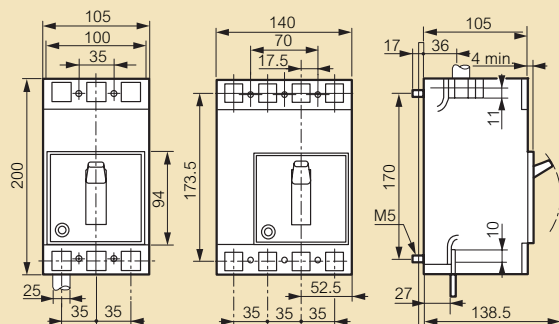
Mounting flexible seal



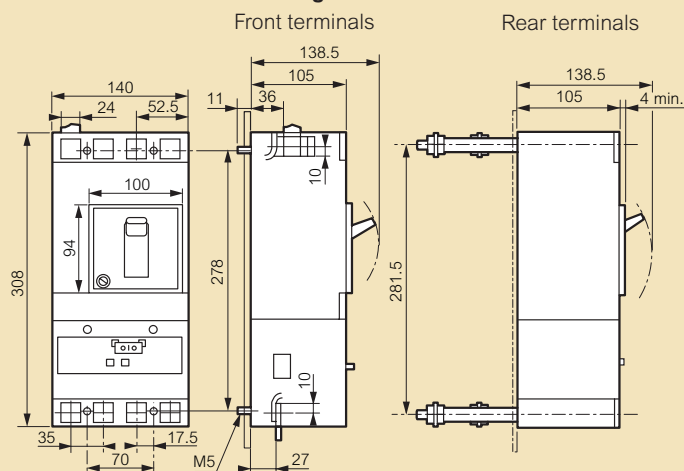
(1) Dimensions of 3-pole earth leakage modules are the same as 4-pole earth leakage modules
(2) 75 mm without mechanical system

■ Dimensions

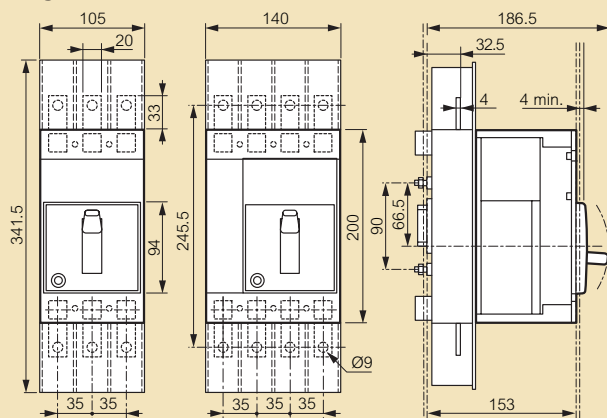
Fixed version, front terminals



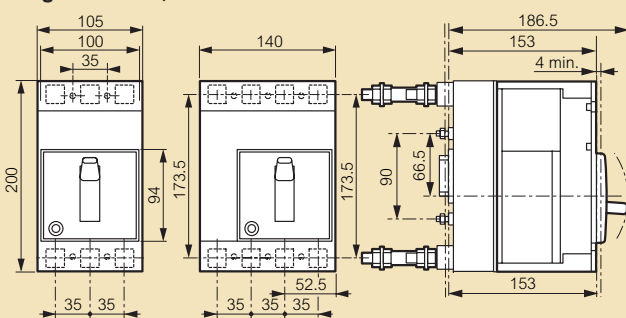
Fixed version with earth leakage module mounted underneath⁽¹⁾



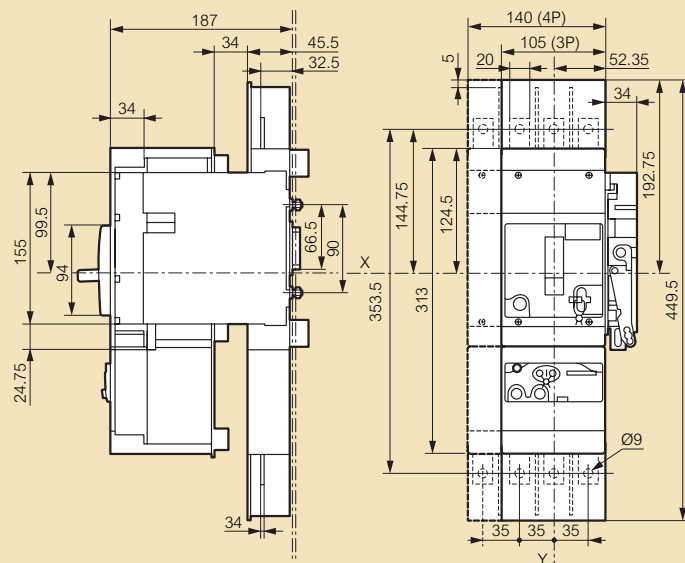
Plug-in version, front terminals



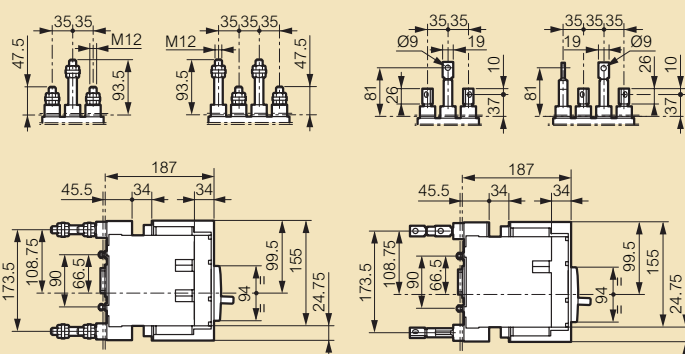
Plug-in version, rear terminals



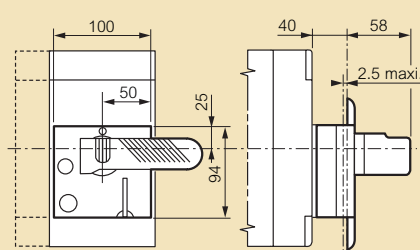
Draw-out version, front terminals



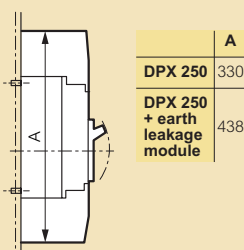
Draw-out version, rear terminals



Rotary handle-direct on DPX



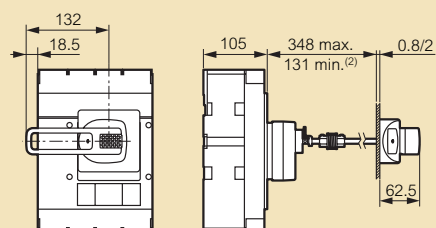
Terminal shields



	A
DPX 250	330
DPX 250 + earth leakage module	438

Rotary handle-vari-depth on door

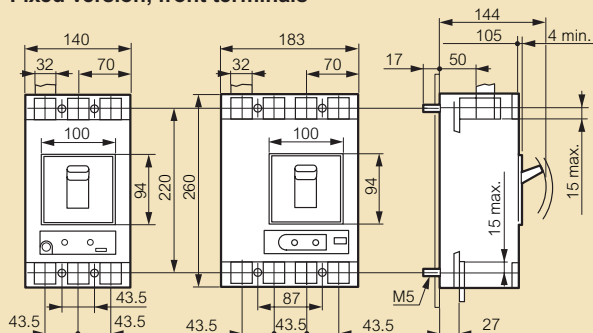
Mounting with flexible seal



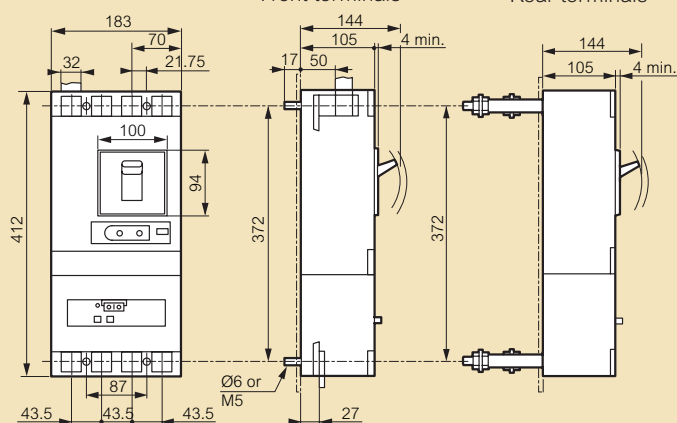
(1) Dimensions of 3-pole earth leakage modules are the same as 4-pole earth leakage modules
(2) 75 mm without mechanical system

■ Dimensions

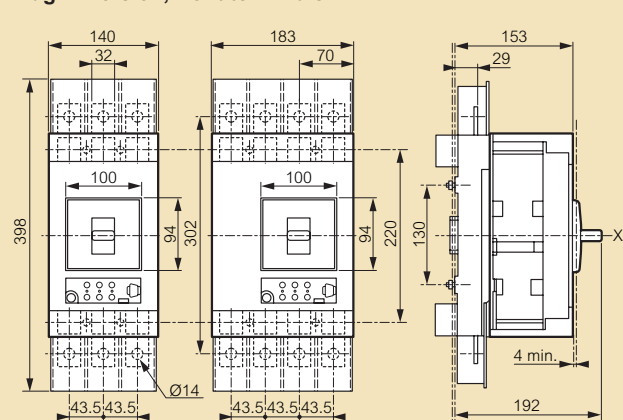
Fixed version, front terminals



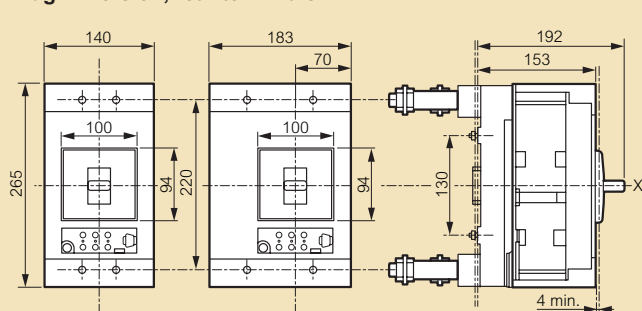
Fixed version with earth leakage module mounted underneath



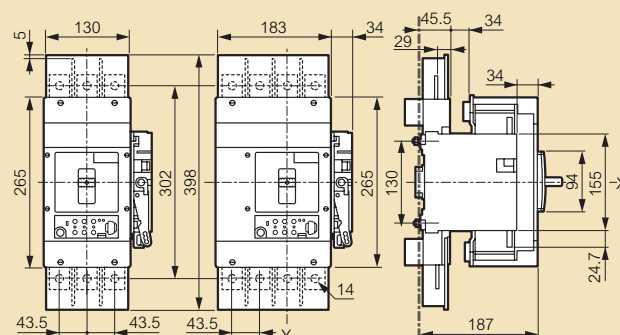
Plug-in version, front terminals



Plug-in version, rear terminals

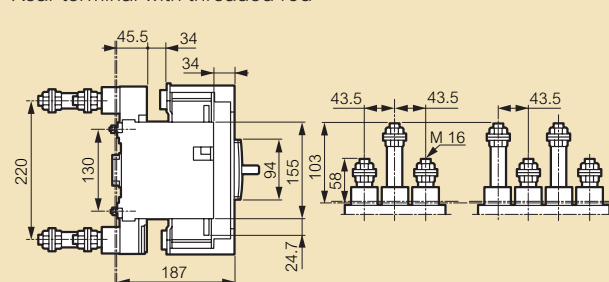


Draw-out version, front terminals

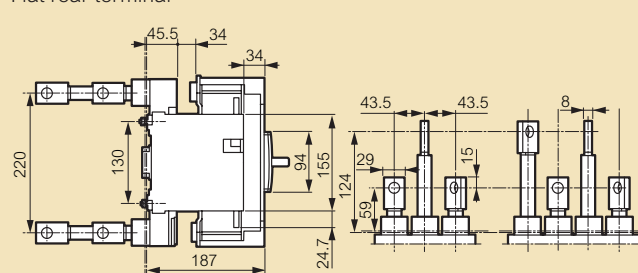


Draw-out version, rear terminals

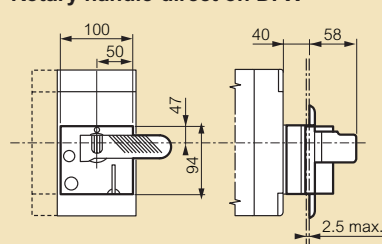
Rear terminal with threaded rod



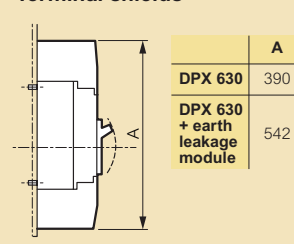
Flat rear terminal



Rotary handle-direct on DPX



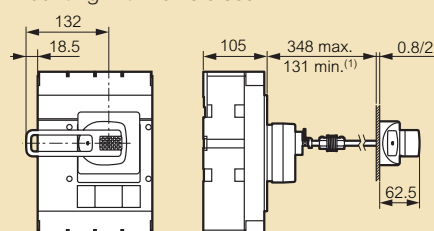
Terminal shields



	A
DPX 630	390
DPX 630 + earth leakage module	542

Rotary handle-vari-depth handle on door

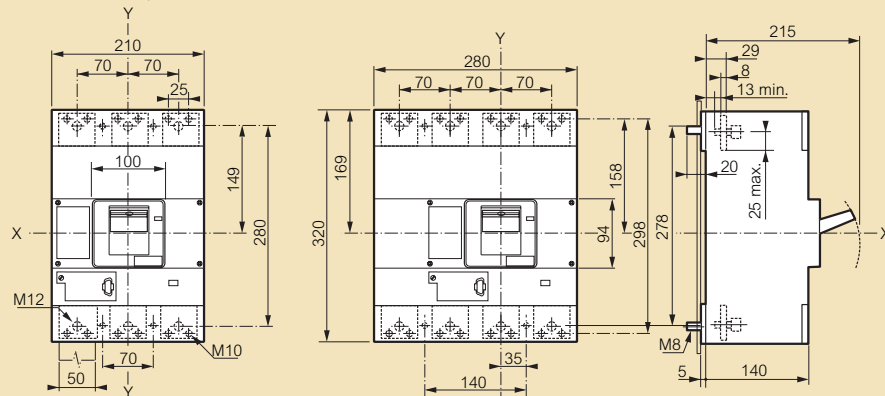
Mounting with flexible seal



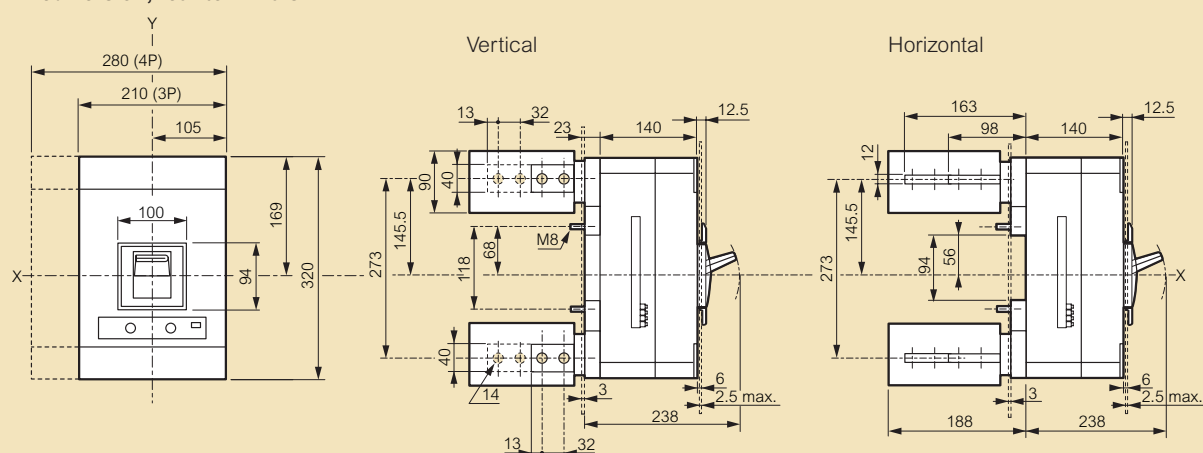
(1) 75 mm without mechanical system

■ Dimensions

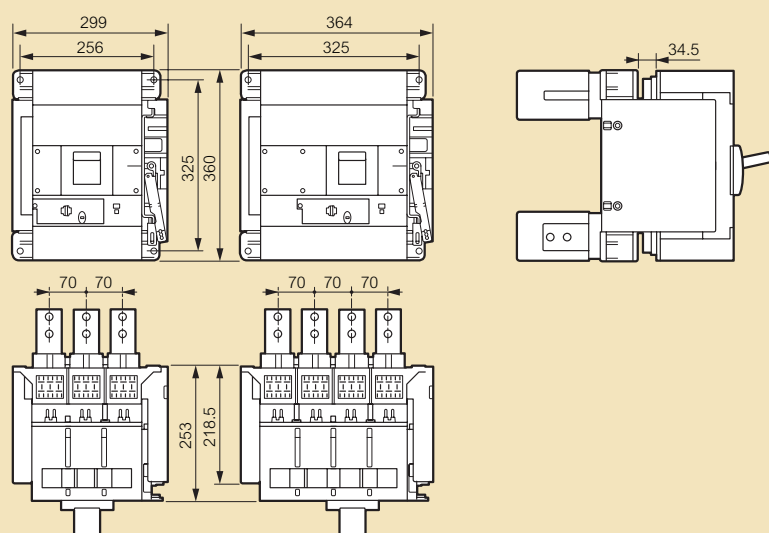
Fixed version, front terminals



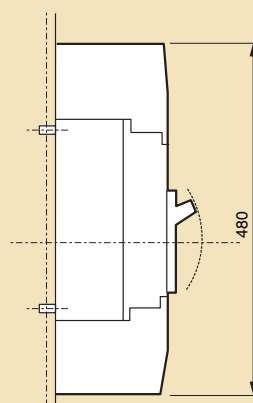
Fixed version, rear terminals



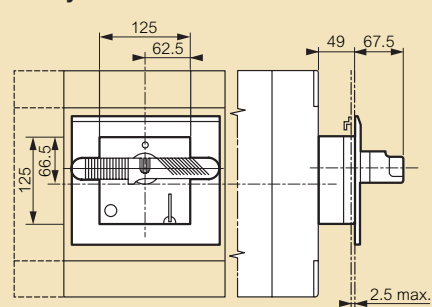
Draw-out version, rear terminals



Terminal shields

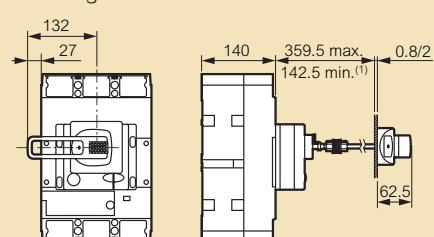


Rotary handle-direct on DPX



Rotary handle-vari-depth handle on door

Mounting with flexible seal



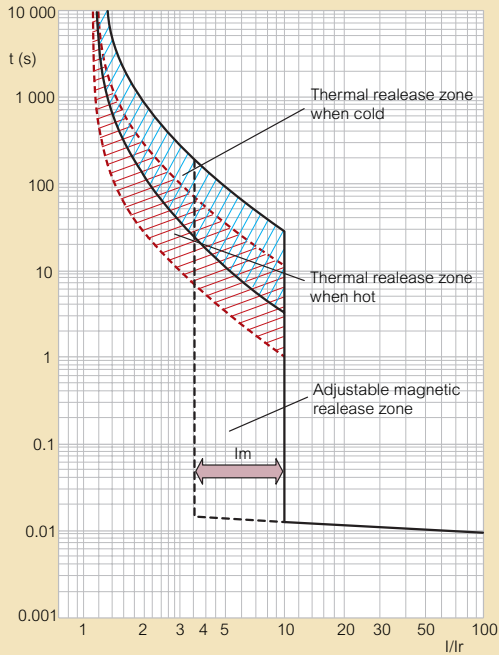
(1) 75 mm without mechanical system

DPX™ MCCBs
electrical characteristics

																																							
DEVICES	DPX 125				DPX 160			DPX 250 ER				DPX 250			DPX 250 Electronic trip			DPX 630			DPX 630 Electronic trip			DPX 1250			DPX 1600 Electronic trip												
Type of MCCB	DPX-E 16 kA	DPX 25 kA	DPX 36 kA		DPX 25 kA	DPX 36 kA	DPX 50 kA	DPX 25 kA	DPX 36 kA	DPX 50 kA		DPX 36 kA	DPX-H	DPX-L	DPX 36 kA	DPX-H	DPX-L	DPX 36 kA	DPX-H	DPX-L	DPX 36 kA	DPX-H	DPX-L	DPX 50 kA	DPX-H	DPX-L	DPX 50 kA	DPX-H											
Number of poles	1P	3P - 3P + N/2 - 4P			3P - 3P + N/2 - 4P			3P - 3P + N/2 - 4P				3P - 3P + N/2 - 4P			3P - 4P			3P - 4P			3P - 3P + N/2 - 4P			3P - 4P			3P - 4P												
	Nominal rating (A)	16 - 125	16 - 125			63 - 160	63 - 160	40 - 160	100 - 250				40 - 250			100 - 250			40 - 250			250 - 630	320 - 630			200 - 630	400 - 630			800 - 1250			800 - 1600						
Breaking capacity (kA) (EN 60947-2 and IEC 60947-2)																																							
400 V~	-	16	25	36	25	36	50	25	36	50		36	70	100	36	70	100	36	70	100	36	70	100	50	70	100	50	70											
	230 V~	16	22	35	40	40	50	65	40	50	65		60	100	170	60	100	170	60	100	170	60	100	170	80	100	170	80	100										
	Breaking capacity Ics (% Icu)	50	100	50	75	100	75	50	100	75	50		100	75	50	100	75	50	100	75	50	100	75	50	100	75	50	100	75										
Characteristics of use																																							
Nominal frequency	50/60 Hz											50/60 Hz																											
	Maximum rated operating voltage Ue (V)	230 V~	500 V~ - 250 V=			500 V~ - 250 V=			500 V~ - 250 V=				690 V~ - 250 V=			690 V~			690 V~ - 250 V=			690 V~			690 V~ - 250 V=			690 V~											
	Category of use	A				A				A					A			A			A			A: In 630 A B: In 200 to 400 A			A			B									
Thermal-magnetic adjustment																																							
Thermal	0.7 to 1 In				0.64 to 1 In				0.64 to 1 In					0.64 to 1 In				-				0.8 to 1 In				-				0.8 to 1 In		-							
	Magnetic	fixed				fixed				fixed					3.5 to 10 In				-				5 to 10 In				-				5 to 10 In		-						
Electronic protection adjustment																																							
S1	-				-				-					-				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							
S2	-				-				-					-				-				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 In Tm: 0.01 to 0.3 s									
Maximum cable cross-section																																							
Rigid cable	70 mm²				95 mm²				185 mm²					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							
	Flexible cable	50 mm²				70 mm²				150 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						
	Copper bar and lug width	12 mm ⁽¹⁾				18 mm ⁽¹⁾				22 mm ⁽¹⁾					25 mm				25 mm				32 mm				32 mm				50 mm		50 mm						
	Tightening torque	6 Nm				10 Nm				10 Nm					15 Nm				15 Nm				15 Nm				15 Nm				20 Nm		20 Nm						
Nominal current (In) at 40 °C (A)																																							
In (A)	16	25	40	63	100	125	40	63	100	160	100	160	250		40	63	100	160	250	40	100	160	250	250	320	400	500	630	250	400	630	800	1000	1250	800	1250	1600		
	Phase	16	25	40	63	100	125	40	63	100	160	100	160	250		40	63	100	160	250	40	100	160	250	250	320	400	500	630	250	400	630	800	1000	1250	800	1250	1600	
	N	16	25	40	63	100	125	40	63	100	160	100	160	250		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			
	N/2	-	-	-	-	-	63	-	-	-	100	-	-	160		40	63	63	100	160					250	250	250	320					500	500	630				
Magnetic threshold (Im) (A) ⁽²⁾																																							
Fixed														Adjustable																									
In (A)	16	25	40	63	100	125	40	63	100	160	100	160	250		63	100	160	250					250	400	630					800	1000	1250							
	Phase	480	625	800	950	1250	1250	400	630	1000	1600	1000	1600	2500		220 - 630	350 - 1000	560 - 1600	900 - 2500					1250 - 2500	2000 - 4000	3150 - 6300					4000 - 8000	5000 - 10000	6250 - 12500						
	N	480	625	800	950	1250	1250	400	630	1000	1600	1000	1600	2500		220 - 630	350 - 1000	560 - 1600	900 - 2500					1250 - 2500	2000 - 4000	3150 - 6300					4000 - 8000	5000 - 10000	6250 - 12500						
	N/2						950				1000			1600		220 - 630	220 - 630	350 - 1000	560 - 1600					800 - 1600	1250 - 2500	2000 - 4000													

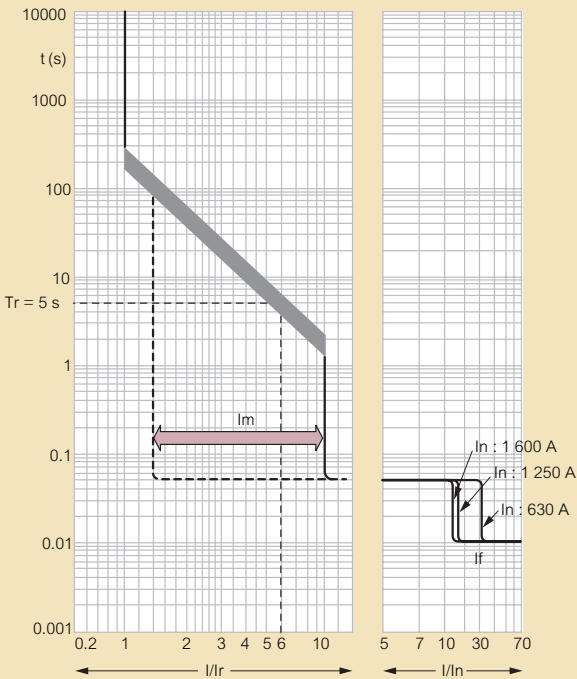
(1) Copper bar only
(2) Trip current for 50/60 Hz. For direct current, multiply by 1.5

■ Tripping curve for a DPX thermal-magnetic trip



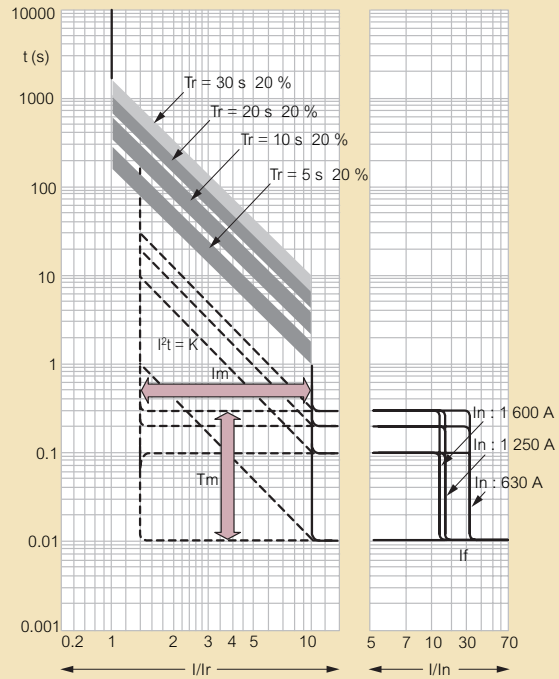
I: actual current
 Ir: thermal protection against overloads (setting: $I_r = x I_n$)
 Im: magnetic protection against short-circuits (setting: $I_m = x I_n$ or $I_m = x I_r$)
 As the abscissa of the curves represents the ratio I/I_r , modifying the setting of I_r will not change the graphical representation 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: 5 s at 6 Ir)
 Im: short delay protection against short-circuits (setting: $I_m = x I_r$, between 1.5 and 10 Ir 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 Ir in the example)
 Tm: short delay protection operation time (setting: 0 to 0.3 s)
 I²t constant (adjustable via Tm)
 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 1 250
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 / 1 600 S1	DPX 630 / 1 600 S2
Ir overload trip threshold (long delay)	$(0.4 - 0.5 - 0.6 - 0.7 - 0.8 - 0.9 - 0.95 - 1) \times I_n$	
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)	$(1.5 - 2 - 3 - 4 - 5 - 6 - 8 - 10) \times I_r^{(1)}$	
Tm Short delay trip time	fixed: 0.05 s	0 - 0.1 - 0.2 - 0.3 s

(1) 7.9 Ir 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 125 (25 kA) DPX 125 (36 kA)				DPX 160 (25 kA) DPX 160 (36 kA) DPX 160 (50 kA)				DPX 250ER (25 kA) DPX 250ER (36 kA) DPX 250ER (50 kA)				DPX 250 DPX-H 250 DPX-L 250				DPX 630 DPX-H 630 DPX-L 630				DPX 1250 DPX-H 1250 DPX-L 1250					
DPX	In (A) Ist. (kA)	40 0.8	63 0.95	100 1.25	125 1.25	40 0.4	63 0.63	100 1	160 1.6	250 2.5	63 0.63	100 1	160 1.6	250 2.5	250 2.5	320 3.2	400 4	500 5	630 6.3	500 5	630 6.3	800 8	1000 10	1250 12.5			
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	12	T	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	12	T	T	T	T			
	40		1	1.2	1.2			1	1.6	2.5		1	1.6	2.5	6	6	6	6	8	12	T	T	T	T			
	63			1.2	1.2				1.6	2.5			1.6	2.5	6	6	6	6	8	12	T	T	T	T			
	100								1.6	2.5			1.6	2.5	4	4	4	4	6	8	12	T	T	T	T		
DPX 125 (25 kA)	125								1.6	2.5			1.6	2.5	4	4	4	4	6	8	12	T	T	T	T		
	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	12	16	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	12	16	16	16	16			
	40		1	1.2	1.2			1	1.6	2.5		1	1.6	2.5	6	6	6	6	8	12	16	16	16	16			
	63			1.2	1.2				1.6	2.5			1.6	2.5	6	6	6	6	8	12	16	16	16	16			
DPX 125 (36 kA)	100								1.6	2.5			1.6	2.5	6	6	6	6	8	12	16	16	16	16			
	125								1.6	2.5			1.6	2.5	4	4	4	4	6	8	12	16	16	16	16		
	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	12	16	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	12	16	16	16	16			
	40		1	1.2	1.2			1	1.6	2.5		1	1.6	2.5	6	6	6	6	8	12	16	16	16	16			
DPX 160 DPX 250ER (25 kA)	63			1.2	1.2				1.6	2.5			1.6	2.5	6	6	6	6	8	12	16	16	16	16			
	100								1.6	2.5			1.6	2.5	3.2	4	4	4	5	6.3	12	16	16	16	16		
	160									2.5				2.5	3.2	4	4	4	5	6.3	12	16	16	16	16		
	250													2.5	3.2	4	4	4	5	6.3	12	16	16	16	16		
	25													3.2	4	4	4	4	5	6.3	12	16	16	16	16		
DPX 160 DPX 250ER (36 kA)	25					0.4	0.63	1	1.6	2.5	0.63	1	1.6	2.5	2.5	3.2	4	4	4	5	6.3	12	16	16	16	16	
	40						0.63	1	1.6	2.5	0.63	1	1.6	2.5	2.5	3.2	4	4	4	5	6.3	12	16	16	16	16	
	63							1	1.6	2.5		1	1.6	2.5	2.5	3.2	4	4	4	5	6.3	12	16	16	16	16	
	100								1.6	2.5			1.6	2.5	2.5	3.2	4	4	4	5	6.3	12	16	16	16	16	
	160									2.5				2.5	2.5	3.2	4	4	4	5	6.3	12	16	16	16	16	
DPX 160 DPX 250ER (50 kA)	250														3.2	4	4	4	4	5	6.3	12	16	16	16	16	
	25					0.4	0.63	1	1.6	2.5	0.63	1	1.6	2.5	2.5	3.2	4	4	4	5	6.3	12	16	16	16	16	
	40						0.63	1	1.6	2.5	0.63	1	1.6	2.5	2.5	3.2	4	4	4	5	6.3	12	16	16	16	16	
	63							1	1.6	2.5		1	1.6	2.5	2.5	3.2	4	4	4	5	6.3	12	16	16	16	16	
	100								1.6	2.5			1.6	2.5	2.5	3.2	4	4	4	5	6.3	12	16	16	16	16	
DPX 250 (36 kA)	160									2.5				2.5	2.5	3.2	4	4	4	5	6.3	12	16	16	16	16	
	250														3.2	4	4	4	4	5	6.3	12	16	16	16	16	
	25														2.5	3.2	4	4	4	5	6.3	12	16	16	16	16	
	40														2.5	3.2	4	4	4	5	6.3	12	16	16	16	16	
	63											1	1.6	2.5	2.5	3.2	4	4	4	5	6.3	12	16	16	16	16	
DPX 250 (36 kA)	100													1.6	2.5	2.5	3.2	4	4	5	6.3	12	16	16	16	16	
	160													2.5	2.5	3.2	4	4	4	5	6.3	12	16	16	16	16	
	250															3.2	4	4	4	5	6.3	12	16	16	16	16	
	40															3.2	4	4	4	5	6.3	16		16	16	16	
	63																3.2	4	4	5	6.3	16		16	16	16	
DPX-H/L 250 (70/100 kA)	100															3.2	4	4	4	5	6.3	16		16	16	16	
	160															3.2	4	4	4	5	6.3	16		16	16	16	
	250															3.2	4	4	4	5	6.3	16		16	16	16	
	25										0.63	1	1.6	2.5	2.5	3.2	4	4	4	5	6.3	12	16	16	16	16	
	40										0.63	1	1.6	2.5	2.5	3.2	4	4	4	5	6.3	12	16	16	16	16	
DPX-H/L 250 (70/100 kA)	63													1.6	2.5	2.5	3.2	4	4	5	6.3	12	16	16	16	16	
	100													2.5	2.5	3.2	4	4	4	5	6.3	12	16	16	16	16	
	160															3.2	4	4	4	5	6.3	12	16	16	16	16	
	250															3.2	4	4	4	5	6.3	12	16	16	16	16	
	25																3.2	4	4	5	6.3	16		16	16	16	
DPX 630 (36 kA)	320																4	4	4	5	6.3	10	10	10	10	10	
	400																		5	6.3	10	10	10	6	7.5		
	500																			6.3	10	10	6	7.5	7.5		
	630																				6.3	10	10	6	7.5		
	250																3.2	4	4	5	6.3	10	10	10	10	10	
DPX-H/L 630 (70/100 kA)	320																4	4	4	5	6.3	10	10	10	10	10	
	400																		5	6.3	10	10	10	6	7.5		
	500																			6.3	10	10	6	7.5	7.5		
	630																				6.3	10	10	6	7.5		
	160																				6.3	6.3		8	6	8	
DPX 630 S1/S2 (36 kA) ⁽¹⁾	250																			6.3	6.3		8	6	8		
	400																			6.3	6.3		8	6	8		
	630																			6.3	6.3		8	6	8		
	160																				6.3	6.3		8	6	8	
DPX-H/L 630 S1/S2 (70/100 kA) ⁽¹⁾	250																				6.3	6.3		8	6	8	
	400																							8	6	8	
	630																							8	6	8	
	500																						5	8	7.5	7.5	
DPX 1250 (50 kA)	630																							8	7.5	7.5	
	800																							8	7.5	7.5	
	1000																								7.5	7.5	
	1250																									7.5	
DPX-H/L 1250 (70/100 kA)	500																							5	8	7.5	7.5
	630																							8	7.5	7.5	
	800																								7.5	7.5	
	1000																									7.5	
DPX/DPX-H 1600 S1 (50/70 kA) ⁽¹⁾	630																										
	800																										
DPX/DPX-H 1600 S2 (50/70 kA) ⁽¹⁾	630																										
	800																										

(1) Selectivity low

selectivity table **DPX™ / DPX™ electronic**

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

Downstream MCCB	DPX	Upstream MCCB electronic SEL: LOW															
		DPX 250 (36 kA) DPX-H 250 (70 kA) DPX-L 250 (70 kA)						DPX 630 S1/S2 (36 kA) DPX-H 630 S1/S2 (70 kA) DPX-H 630 S1/S2 (70 kA)				DPX/DPX-H 1600 S1 (50/70 kA)		DPX/DPX-H 1600 S2,Sg (50/70 kA)		DPX/DPX-H 1600 S1,S2,Sg (50/70 kA)	
		In (A) Ist. (kA)	40	63	100	160	250	160	250	400	630	630	800	630	800	1250	1600
DPX	16	3.5	3.5	3.5	3.5	3.5	8	8	8	8	10	10	10	10	15	20	
	25	3.5	3.5	3.5	3.5	3.5	8	8	8	8	10	10	10	10	15	20	
	40		3.5	3.5	3.5	3.5	6	6	6	6	10	10	10	10	15	20	
	63			3.5	3.5	3.5	6	6	6	6	10	10	10	10	15	20	
	100				3.5	3.5	6	6	6	6	10	10	10	10	15	20	
	125				3.5	3.5	6	6	6	6	10	10	10	10	15	20	
DPX 125 (16 kA)	16	3.5	3.5	3.5	3.5	3.5	8	8	8	8	10	10	10	10	15	20	
	25	3.5	3.5	3.5	3.5	3.5	8	8	8	8	10	10	10	10	15	20	
	40		3.5	3.5	3.5	3.5	6	6	6	6	10	10	10	10	15	20	
	63			3.5	3.5	3.5	6	6	6	6	10	10	10	10	15	20	
	100				3.5	3.5	6	6	6	6	10	10	10	10	15	20	
	125				3.5	3.5	6	6	6	6	10	10	10	10	15	20	
DPX 125 (25 kA)	16	3.5	3.5	3.5	3.5	3.5	8	8	8	8	10	10	10	10	15	20	
	25	3.5	3.5	3.5	3.5	3.5	8	8	8	8	10	10	10	10	15	20	
	40		3.5	3.5	3.5	3.5	6	6	6	6	10	10	10	10	15	20	
	63			3.5	3.5	3.5	6	6	6	6	10	10	10	10	15	20	
	100				3.5	3.5	6	6	6	6	10	10	10	10	15	20	
	125				3.5	3.5	6	6	6	6	10	10	10	10	15	20	
DPX 125 (36 kA)	16	3.5	3.5	3.5	3.5	3.5	8	8	8	8	25	25	25	25	25	25	
	25	3.5	3.5	3.5	3.5	3.5	8	8	8	8	25	25	25	25	25	25	
	40		3.5	3.5	3.5	3.5	6	6	6	6	25	25	25	25	25	25	
	63			3.5	3.5	3.5	6	6	6	6	25	25	25	25	25	25	
	100				3.5	3.5	6	6	6	6	25	25	25	25	25	25	
	125				3.5	3.5	6	6	6	6	25	25	25	25	25	25	
DPX 160 DPX 250ER (25 kA)	25	3.5	3.5	3.5	3.5	3.5	8	8	8	8	20	20	20	20	20	20	
	40		3.5	3.5	3.5	3.5	8	8	8	8	20	20	20	20	20	20	
	63			3.5	3.5	3.5	6	6	6	6	20	20	20	20	20	20	
	100				3.5	3.5	6	6	6	6	20	20	20	20	20	20	
	160					3.5	6	6	6	6	20	20	20	20	20	20	
	250							6	6	6	20	20	20	20	20	20	
DPX 160 DPX 250ER (36 kA)	25	3.5	3.5	3.5	3.5	3.5	8	8	8	8	20	20	20	20	20	20	
	40		3.5	3.5	3.5	3.5	8	8	8	8	20	20	20	20	20	20	
	63			3.5	3.5	3.5	6	6	6	6	20	20	20	20	20	20	
	100				3.5	3.5	6	6	6	6	20	20	20	20	20	20	
	160					3.5	6	6	6	6	20	20	20	20	20	20	
	250							6	6	6	20	20	20	20	20	20	
DPX 160 DPX 250ER (50 kA)	25	3.5	3.5	3.5	3.5	3.5	8	8	8	8	20	20	20	20	20	20	
	40		3.5	3.5	3.5	3.5	8	8	8	8	20	20	20	20	20	20	
	63			3.5	3.5	3.5	6	6	6	6	20	20	20	20	20	20	
	100				3.5	3.5	6	6	6	6	20	20	20	20	20	20	
	160					3.5	6	6	6	6	20	20	20	20	20	20	
	250							6	6	6	20	20	20	20	20	20	
DPX 250 (36 kA)	25	3.5	3.5	3.5	3.5	3.5	8	8	8	8	20	20	20	20	20	20	
	40		3.5	3.5	3.5	3.5	8	8	8	8	20	20	20	20	20	20	
	63			3.5	3.5	3.5	6	6	6	6	20	20	20	20	20	20	
	100				3.5	3.5	6	6	6	6	20	20	20	20	20	20	
	160					3.5	6	6	6	6	20	20	20	20	20	20	
	250							6	6	6	20	20	20	20	20	20	
DPX 250 (36 kA)	40		0.63	1	1.6	2.5	8	8	8	8	20	20	20	20	20	20	
	63			1	1.6	2.5	6	6	6	6	20	20	20	20	20	20	
	100				1.6	2.5	6	6	6	6	20	20	20	20	20	20	
	160					2.5		6	6	6	20	20	20	20	20	20	
	250								6	6	20	20	20	20	20	20	
	250									6	6	20	20	20	20	20	
DPX-H/L 250 (70/100 kA)	25	3.5	3.5	3.5	3.5	3.5	8	8	8	8	20	20	30	30	30	36	
	40		3.5	3.5	3.5	3.5	8	8	8	8	20	20	30	30	30	36	
	63			3.5	3.5	3.5	6	6	6	6	20	20	30	30	30	36	
	100				3.5	3.5	6	6	6	6	20	20	30	30	30	36	
	160					3.5	6	6	6	6	20	20	30	30	30	36	
	250							6	6	6	20	20	30	30	30	36	
DPX-H/L 250 (70/100 kA)	40		0.63	1	1.6	2.5	8	8	8	8	20	20	30	30	30	36	
	63			1	1.6	2.5	6	6	6	6	20	20	30	30	30	36	
	100				1.6	2.5	6	6	6	6	20	20	30	30	30	36	
	160					2.5		6	6	6	20	20	30	30	30	36	
	250								6	6	20	20	30	30	30	36	
	250									6	6	20	20	30	30	36	
DPX 630 (36 kA)	250								6	6	15	15	20	20	20	20	
	320								6	6	15	15	20	20	20	20	
	400									6	15	15	20	20	20	20	
	500										10	10	20	20	20	20	
	630										10	10	20	20	20	20	
	630											10	10	20	20	20	
DPX-H/L 630 (70/100 kA)	250								6	6	15	15	20	20	20	36	
	320								6	6	15	15	20	20	20	36	
	400									6	15	15	20	20	20	36	
	500										10	10	20	20	20	36	
	630										10	10	20	20	20	36	
	630											10	10	20	20	36	
DPX 630 S1/S2 (36 kA) ⁽¹⁾	160							5	5	5	15	15	20	20	20	20	
	250								5	5	15	15	20	20	20	20	
	400									5	15	15	20	20	20	20	
	630										15	15	20	20	20	20	
	160								5	5	15	15	20	20	20	36	
	250								5	5	15	15	20	20	20	36	
DPX-H/L 630 S1/S2 (70/100 kA) ⁽¹⁾	400									5	15	15	20	20	20	36	
	630										15	15	20	20	20	36	
	500										15	15	20	20	20	20	
	630										15	15	20	20	20	20	
	800											15	15	20	20	20	
	1000												15	15	20	20	
DPX-H/L 1250 (70/100 kA)	1250										15	15	20	20	20	20	
	630										15	15	20	20	20	20	
	800											15	15	20	20	20	
	1000												15	15	20	20	
	1250													15	15	20	
	1600														15	20	
DPX/DPX-H 1600 S1 (50/70 kA) ⁽¹⁾	630										15	15	20	20	20	20	
800												15	15	20	20	20	
DPX/DPX-H 1600 S2 (50/70 kA) ⁽¹⁾	630										15	15	20	20	20	20	
800													15	15	20	20	
DPX/DPX-H 1600 S1/S2 (50/70 kA) ⁽¹⁾	1250															20	
1600																20	

selection tables

MCCBs/MCBs

MCBs downstream		MCBs upstream																															
		DPX																DPX															
		DPX 125				DPX 160			DPX 250 ER				DPX/H/L 250					DPX/H/L 630 elec.			DPX/H/L 630				DPX/H/L 1250					DPX/H 1600 elec.			
40 A	63 A	100 A	125 A	63 A	100 A	160 A	63 A	100 A	160 A	250 A	63 A	100 A	160 A	250 A		250 A	320 A	400A	160 A	250 A	400 A	630 A	500 A	630 A	800 A	1000 A	1250 A	630 A	800 A	1250 A	1600 A		
LR6000 DX6000- 6 kA DX6000- 10 kA DX-H 10000- 25 kA C curve	1 to 4 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	
	6 A	6000	6000	T	T	T	T	T	T	T	T	T	6000	T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	10 A	5 000	5000	7500	7500	5000	T	T	5000	T	T	T	5000	T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	13 A	4 000	4000	6000	6000	5 000	T	T	5000	T	T	T	4 000	T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	16 A	4000	4000	6000	6000	4000	T	T	4000	T	T	T	4000	T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	20 A	3000	3000	5000	5000	4000	8000	T	4000	8000	T	T	4000	8000	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	25 A	3000	3000	4500	4500	3000	6000	8500	3000	6000	8500	T	3000	6000	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	32 A		2000	4000	4000	2000	5000	7000	2000	5000	7000	T	2000	5000	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	40 A		2000	3000	3000	2000	4000	6000	2000	4000	6000	T	2000	5000	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	50 A			3000	3000		4000	5500		4000	5500	7000		4000	8000	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	63 A			3000	3000		3000	5000		3000	5000	6000		4000	8000	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	80 A				2000		2500	5000		2500	5000	6000			8000	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	100 A							4000			4000	5000			7500	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	125 A							2000			2000	3000			3000	8000		8000	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
DX6000 D curve	1 to 4 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	
	6 A	6000	6000	T	T	4000	T	T	4000	T	T	T	6000	T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	10 A	5000	5000	7500	7500	4000	T	T	4000	T	T	T	5000	T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	13 A	4000	4000	6000	6000	4000	T	T	4000	T	T	T	4000	T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	16 A	4000	4000	6000	6000	3500	6000	T	3500	6000	T	T	4000	T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	20 A	3000	3000	5000	5000	3500	6000	T	3500	6000	T	T	4000	8000	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	25 A	3000	3000	4500	4500	2500	5500	8500	2500	5500	8500	T	3000	6000	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	32 A		2000	4000	4000	2500	5000	7000	2500	5000	7000	T	2000	5000	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	40 A		2000	3000	3000	2000	4500	6000	2000	4500	6000	T	2000	5000	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	50 A			3000	3000		3500	5000		3500	5500	T		4000	8000	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	63 A			3000	3000		3500	5000		3500	5000	6000		4000	8000	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	80 A				1500			4000			4000	5000			7000	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	100 A							3000			3000	4000			6500	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	125 A							1500			1500	2000			2000	7000		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
LR6000 DX6000- 6 kA DX6000- 10 kA DX-H 10000- 25 kA B curve	1 to 4 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	
	6 A	6000	6000	10000	10000	T	T	T	T	T	T	T	6000	T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	10 A	5000	5000	7500	7500	7000	T	T	7000	T	T	T	5000	T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	13 A	4000	4000	6000	6000	7000	T	T	7000	T	T	T	4000	T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	16 A	4000	4000	6000	6000	5500	9500	T	5500	9500	T	T	4000	T	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	20 A	3000	3000	5000	5000	5500	8500	10000	5500	8500	10000	T	3000	8000	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	25 A	3000	3000	4500	4500	4500	7000	8500	4500	7000	8500	T	3000	6000	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	32 A		2000	4000	4000	4500	5500	7000	4500	5500	7000	T	2000	5000	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	40 A		2000	3000	3000		5500	6000		5500	6000	T	2000	5000	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	50 A			3000	3000		4500	5500		4500	5500	10000		4000	8000	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	63 A			3000	3000		4500	5000		4500	5000	8000		4000	8000	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	DX-L 25000- 50 kA C curve	10 A	30000	30000	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
		16 A	20000	20000	35000	35000	20000	T	T	20000	T	T	T		40000	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
		20 A	15000	15000	25000	25000	15000	22000	T	15000	22000	T	T		33000	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
25 A		12000	12000	20000	20000	12000	18000	T	12000	18000	T	T		28000	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
32 A			9000	15000	15000	9000	13000	T	9000	13000	T	T		20000	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
40 A			6000	10000	10000	6000	8000	20000	6000	8000	20000	25000		13000	T	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
50 A				5000	5000		4000	10000		4000	10000	20000		8000	20000	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
63 A				5000	5000		4000	10000		4000	10000	15000		8000	20000	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	

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

Upstream fuse

MCCBs downstream	gG type		
	250 A	400 A	1000 A
DPX 125	7 500		
DPX 160		10000	
DPX 250 ER		10000	
DPX 250		10000	
DPX 630			50 000

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 10 000 - 25 kA B and C curves		DX-L		DPX-E 125	DPX 125	DPX/ DPX-H 160	DPX 250 ER					DPX/H/L 250		DPX/H/L 630	DPX/H/L 630 electronic		DPX/H/L 1250	DPX/H/L 1 600
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		160 A	250 A	250 to 400 A	160 & 400 A	630 A	500 to 1250 A	800 to 1600 A
DX 6 000 - 10 kA B and C curves	1 to 20 A	25	12.5	50	25	16	25	25	25	25	25	25		25	25	25	25	25	25	25
	25 A	25	12.5	50	25	16	25	25	25	25	25	25		25	25	25	25	25	20	20
	32 A		12.5		25	16	25	25	25	25	25	25		25	25	25	25	25	15	15
	40 A		12.5		25	16	25	25	25	25	25	25		25	20	20	20	20	15	15
	50 A				25	16	25	20	25	25	20	20		20	15	15	15	15	12.5	12.5
	63 A					16	25	15		20	15	15		15	15	15	15	15	12.5	12.5
	80 A						20	25			20	20		20	20	20	20	15		
	100 A						20	25			20	20		20	20	20	20	15		
DX-H 10 000 - 25 kA B and C curves DX 6 000 - 15 kA D curve	1 to 16 A			50	25	16	25	25	25	25	25	25		25	25	25	25	25	25	25
	20 A			50	25	16	25	20	25	25	25	25		25	25	25	25	25	25	25
	25 A				25	16	25	15	25	25	25	25		25	25	25	25	25	20	20
	32 A				25	16	25	20	25	25	25	25		25	25	25	25	25	15	15
	40 A				25	16	25	20	25	25	25	25		25	20	20	20	20	15	15
	50 A				25	16	25	15	25	25	20	20		20	15	15	15	15	12.5	12.5
	63 A					16	25	25	25	20	15	15		15	15	15	15	15	12.5	12.5
DX-L - 50 kA C curve	10 to 63 A			50	50			50	50	50	50	50		50	50	50	50	50	50	50

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

		MCBs/MCCBs upstream																		
		DX-H [10 000] - 25 kA B and C curves		DX-L		DPX-E 125	DPX 125	DPX/ DPX-H 160	DPX 250 ER					DPX/H/L 250			DPX/H/L 630 electronic		DPX/H/L 1250	DPX/H/L 1 600
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		160 A	250 A	250 to 400 A	160 & 400 A	630 A	500 to 1250 A	800 to 1600 A
DX [6 000] - 10 kA B and C curves	1 to 20 A	50	25	50	25	22	35	35	50	50	50	50		50	50	50	50	50	50	50
	32 & 40 A		25		25	22	35	35	50	50	50	50		50	50	50	50	50	50	50
	50 A				25	16	25	25	36	36	36	36		36	30	30	30	25	25	25
	63 A					16	25	15		30	30	30		30	30	30	30	25	25	25
	80 A					16	25	25		25	25	25		25	25	25	25	20		
	100 A					16	25	25			25	25		25	25	25	25	20		
DX-H [10 000] - 25 kA B and C curves DX [6 000] - 15 kA D curve	1 to 40 A			50	25	22	35	35	50	50	50	50		50	50	50	50	50	50	50
	50 A				25	16	25	25	36	36	36	36		36	30	30	30	25	25	25
	63 A					16	25	25		30	30	30		30	30	30	30	25	25	25
DX-L - 50 kA C curve	10 to 63 A			70	70			70	70	70	70	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

■ 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 6 000 - 10 kA C and D curves	1 A to 40 A	100	100
	50 A to 125 A		100
DX-H 10 000 - 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 6 000 - 10 kA C and D curves	1 A to 40 A	100	100
	50 A to 125 A		100
DX-H 10 000 - 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



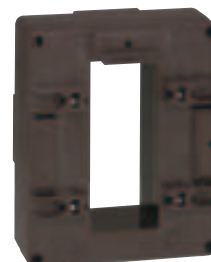
146 00



146 61



146 65



047 79



495 55

Ammeters, voltmeters, central measuring unit and cam switches can be mounted on XL³ 800 and XL³ 4000 curved doors

Pack Cat.Nos Analogue metering devices

Pack	Cat.Nos	Analogue metering devices
		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 00	Round barrel Ø56 mm
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 60	Round barrel Ø56 mm
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

Cam switches (p. 335)

Pack Cat.Nos 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  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 mm 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
		3-phase CT for 3 bars 20.5 x 5.5 mm or 3 cables Ø8 mm
1	046 98	250/5 3
		3-phase CT for 3 bars 35 x 5.5 mm
1	046 99	400/5 4

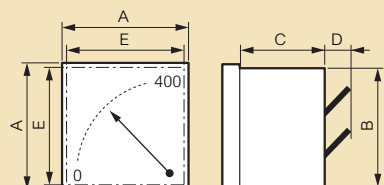
Totalising hour counters (48 x 48)

		One-piece device - IP 40
		Front mounting on enclosure or cabinet doors
		Synchronous motor operation (operation indicator)
		For counting the operating hours of an electrical machine or device, with no reset
		Supplied with cover frame (55 x 55 mm) (for round cut-out) and fixing accessories
		Connection: 2 x 1.5 mm ²
1	495 52	24 V~ - 50 Hz
1	495 53	110 to 120 V~ - 50 Hz
1	495 54	110 to 120 V~ - 60 Hz
1	495 55	200 to 240 V~ - 50 Hz
1	495 58	48 V~ - 50 Hz
1	495 59	400 V~ - 50 Hz
1	495 60	12 to 36 V...
100	495 97	Frame 55 x 55 mm

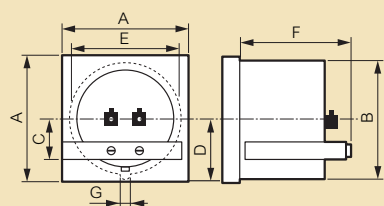
electrical energy metering on door

■ 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 2.52 with screws or
 Conform to IEC 60051, VDE 0410, BS 89,
 EN 60051-1, cenelec HD 223



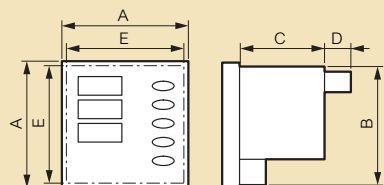
Dimensions (mm)				
A	B	C	D	E
72	66.5	44	12	68±0,7



Dimensions (mm)						
A	B	C	D	E	F	G
72	Ø55	21.4	28.5	56	46	3.2

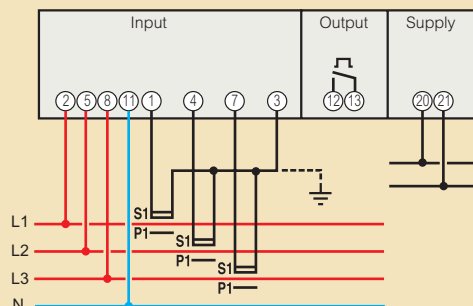
■ Digital central measuring units

- 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



Dimensions (mm)				
A	B	C	D	E
96x96	90x90	64.5	20	92x92

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:

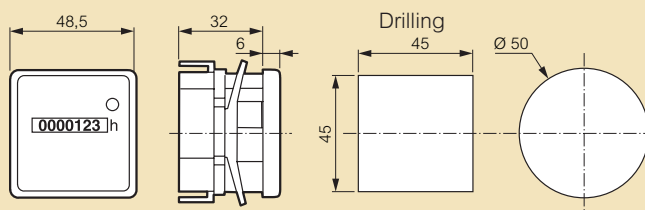


■ Cam switches (p. 335)

■ Totalising hour counters (48 x 48)

Technical characteristics

Counter capacity: AC: 0...99 999.99 h/DC: 0...999 999.9 h
 Reading accuracy: AC: 1/100th h / DC 1/10th h
 Consumption: alternating - 2 VA / continuous - 0.65 W
 Operating temperature: - 25 °C to + 80 °C



■ 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
3-phase CT			
CT 250/5		Ø8	20.5 x 5.5 fix on bar
CT 400/5		-	30.5 x 5.5 fix on bar

electrical energy metering on rail



046 02



046 00



046 63



046 65

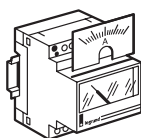


046 64



Dimensions (p. 159)

Pack	Cat.Nos	Analogue metering devices	
		Ammeters	
		Measure the intensity in Amperes (A) of the current circulating in an electrical circuit	Number of modules
1	046 02	Direct connection AC or DC Scale: 0 - 30 A - supplied with dial	4
1	046 00	Connected via a 0 - 5 A output current transformer (CT)	4
		Measuring dials for ammeter Cat.No 046 00	
2	046 10	0-50 A	
2	046 13	0-100 A	
2	046 15	0-200 A	
2	046 16	0-250 A	
2	046 17	0-300 A	
2	046 18	0-400 A	
2	046 20	0-600 A	
2	046 21	0-800 A	
2	046 22	0-1 000 A	
2	046 66	0-1 250 A	
2	046 24	0-1 500 A	
2	046 25	0-2 000 A	
		Voltmeter	
		Measure the AC or DC voltage in a circuit in volts (V)	Number of modules
1	046 60	Scale: 0-500 V	4
		Digital ammeter / voltmeter	
		Connection:	
		- Ammeter mode: connected via a 0 - 5 A current transformer (CT)	
		Reading range adjusted according to CT used	
		- Voltmeter mode: measures the AC or DC voltage of an electrical circuit; scale 0 - 600 V	
1	046 63	Voltage: 230 V~ - 50/60 Hz Reading: I - 0 to 8 000 A U - 0 to 500 V	4



Pack	Cat.Nos	Selective measurement switches	
		For manual selection of the circuits to be measured	
		Ammeter cam switch	
		For measuring the current in a circuit with one ammeter, connected via a current transformer (CT)	
1	046 50	3-phase, 4-position cam switch	Number of modules 3
		Voltmeter cam switches	
		For measuring the voltages in a circuit with one voltmeter	
1	046 52	3-phase, 4-position cam switch	3
1	046 53	3-phase with neutral, 7-position cam switch	3
		Digital frequency meter	
		For measuring the frequency of a 230 V~ electrical circuit in hertz (Hz)	
		Supply voltage 230 V~ (connected to circuit to be measured)	Number of modules
1	046 64	Green LED 3 digit display - 40-80 Hz display	4
		Totalising hour counters	
		Count the operating hours of a machine or an electrical device to determine its exact operating time	
		Counter with numerical display	
		Capacity: 5 digits + 2 decimal places (1 unit = 1 hour)	
		Precision: 1/100th hour	
		Consumption: 0.2 VA	Number of modules
1	046 94	230 V~ - 50 Hz	2
1	046 91	24 V~ - 50 Hz	2



Central measuring units

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: 8 000 A

1 046 65
1 046 67

Standard
Communicating Modbus/JBUS
Data speed transmission: 1 200 to 9 600 Bauds

electrical energy metering on rail

(continued)



046 81

046 72

046 74



Dimensions (p. 159)

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.Nos 046 73 and 046 74 in accordance with IEC 62053-21/23
Class II precision for energy active for Cat.Nos 046 81 and 046 72 in accordance with IEC 62053-21/23 (with a sealable box)

Pack	Cat.Nos	Single phase meters	
		Direct connection Single phase direct connection Power supply: 230 V~ - 50/60 Hz	
1	046 81	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	2
1	046 72	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 electronical energy consumption pulse output: 1 imp/10 Wh	2

		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	
1	046 73	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)	4
1	046 74	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 3-phase connected	4

Current transformers (CT) (p. 94)

electrical energy metering on rail

■ Ammeters

Technical characteristics

Type of measurement	Analogue	
	Ferromagnetic	
Frequency	50 à 60 Hz	
Precision	1.5 %	
Operating temperature	- 10 °C à + 40 °C	
Storage temperature	- 20 °C à + 80 °C	
Consumption:		
• voltage circuit	-	
• measurement circuit	1.1 VA	
Connection	Direct	Par TI
capacity	6 mm ²	4 mm ²
Conformity to standards	NF EN 61010-1	

■ Voltmeters

Technical characteristics

Type of measurement	Analogue	
	Ferromagnetic integration	
Frequency	50 à 60 Hz	
Precision	1.5 %	
Operating temperature	- 10 °C à + 40 °C	
Storage temperature	- 20 °C à + 80 °C	
Consumption	3 VA	
Connection capacity	2 x 2.5 mm ²	
Conformity to standards	NF EN 61010-1	

■ Frequency

Technical characteristics

Type of measurement	Quartz electronic
Precision	± 0.2 % à ± 1 digit
Operating temperature	- 10 °C à + 40 °C
Storage temperature	- 20 °C à + 70 °C
Consumption	4.5 VA
Connection capacity	2 x 2.5 mm ²
Conformity to standards	NF EN 61010-1

■ 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: totalising 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**

Products and systems

Main isolating switches, isolating switches for rows, circuits or groups of circuits

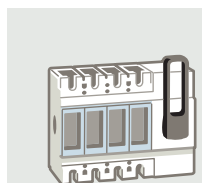
Used for electrical separation of all or part of an installation and to ensure the safety of people working on it by isolation

The range

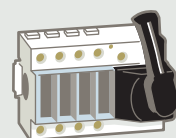
VISIBLE CONTACT INDICATION

Visible indication of the position of the contacts (required for subscriber stations $\leq 1\,200$ kVA)

- DPX-IS
- 63 to 1 600 A
- Trip-free version
- Front, left or right side-mounted handle
- Padlocking function integrated in the handle



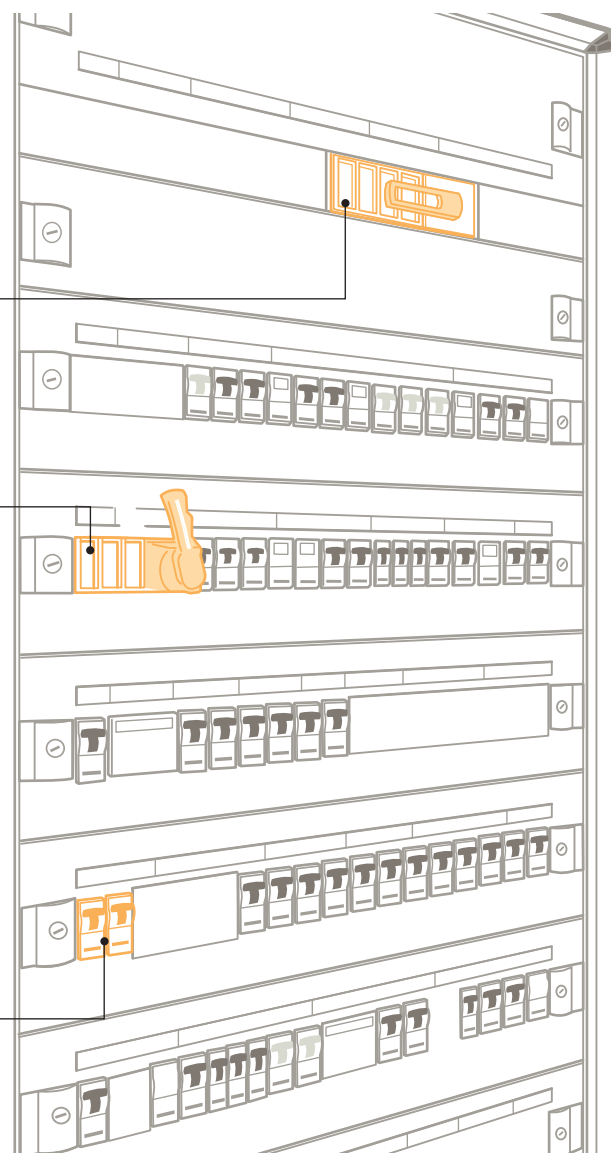
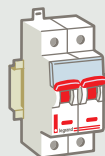
- VISTOP
- 32 to 160 A
- 2 versions for mounting on faceplate:
 - . with left or right external side-mounted handle
 - . with front handle
- Padlocking function integrated in the handle



POSITIVE CONTACT INDICATION

The position of the handle guarantees the position of the contacts

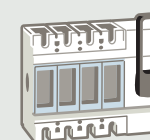
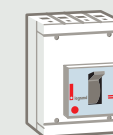
- DX-IS
- 16 to 125 A
- Trip-free version
- Visible indication of the fault contact



TRIP-FREE

Remote opening of circuits (by the use of auxiliaries)

- DMX-I
- 1 250 to 4 000 A
- Fixed or draw-out
- DPX-I
- 125 to 1 600 A
- Can be used with the earth leakage modules or residual current relays of the corresponding DPX
- DPX-IS, DX-IS
- Front, left or right side-mounted handle
- Can be used with a trip



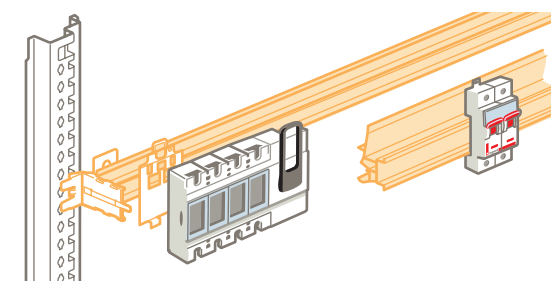
EQUIPMENT

- DPX-I and DPX-IS
- Auxiliaries common to all DPX
- DX-IS
- Auxiliaries common to all DX

Installation principle

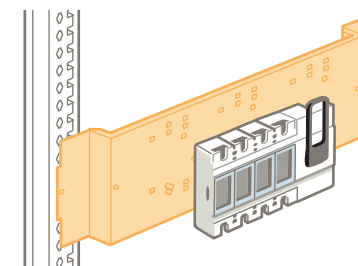
On rail

- DPX-IS 250
- Vistop 32 to 160 A
- DX-IS
- DPX-I 125, 160 and 250 ER



On plate and special faceplate

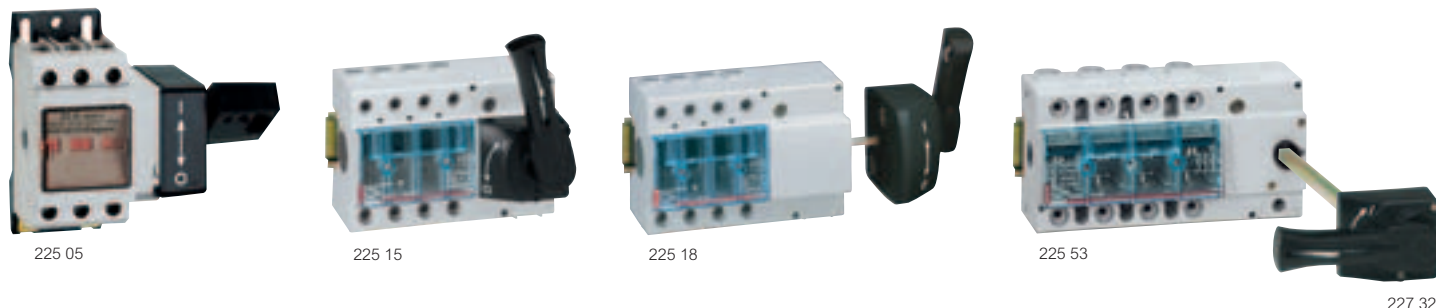
- DPX-IS 250 and 630
- DPX-I 250, 630 and 1600



- See the Distribution and Power guide
- Come and be trained at Innoval see p. 409
- See the on-line catalogue: instructions, technical data sheets, etc.

Vistop™ isolating switches

32 to 160 A



Safety switches for on-load circuit breaking by visible isolation of the contacts
Double break type load switching with self cleaning contacts by rapid make and break movements
Fixing on rail EN 60715 or screw fixing (only on rail for Vistop 63 A)
Padlockable handle in open position: 1 to 3 padlocks Cat.No 227 97 (p. 125)

Pack	Cat.Nos		32 A		
			2 versions for mounting on faceplate		
			• right side handle, supplied with seal to maintain the IP protection for the enclosures (up to IP 55), screws, self adhesive drilling template, extension rod (30 to 170 mm) for creating an external angle		
			• direct front handle		
	Front handle	Side handle	Connection	No of 17.5 mm modules Side handle removed	
1	224 98	225 03	2P	16 mm ²	4 3.5
1	225 00	225 05	3P	cage terminals	4 3.5
1	225 02	225 07	4P		5 4.5

Pack	Cat.Nos	Accessories
1	227 32	Front external handle Comprising: connection rod, bracket, self-adhesive drilling template, fixing accessories (including a seal to maintain the IP protection of enclosure up to IP 55) and locking mechanism to prevent opening of the door when the circuit is closed For Vistop 63 to 160 A fixing on rail EN 60715 or with screws Door distance 35 to 470 mm
1	227 07	Auxiliary contact for "on-off" signalling NO + NC additional contact Connection with lug 2.58

			63 to 160 A		
			Label holders for identification of the circuits		
			2 versions for mounting on faceplate		
			• left or right side handle supplied with seal to maintain the IP protection for the enclosures (up to IP 55), screws, self adhesive drilling template, extensive rod (30 to 170 mm)		
			• direct front handle or external with Cat.No 227 32 (to be ordered separately)		
			Possibility to add auxiliary contact Cat.No 227 07		
			63 A		
	Front handle	Side handle	Connection	No of 17.5 mm modules	
1	225 12	225 16	3P	cage	7
1	225 15	225 18	4P	terminals	7
			100 A		
1	225 20	225 25	3P	key	7.5
1	225 22	225 27	4P	6 sides	9
			125 A		
1	225 34	225 44	3P	key	7.5
1	225 39	225 46	4P	6 sides	9
			160 A		
1	225 51	225 54	3P	key	7.5
1	225 53	225 56	4P	6 sides	9

Vistop™ isolating switches

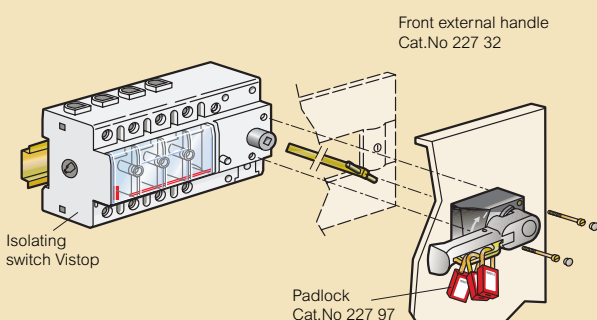
32 to 160 A

Conform to standards EN / IEC 60947-3, BS EN 60947-3, VDE 0660, NBN EN 60947-3, CNOMO E03 - 15-611 R, Veritas approved
Glass fibre reinforced insulating casing, self-extinguishing at 960 °C (IEC EN 60695-2-1)
Handle can be padlocked in open position using 1 to 3 padlocks Ø6 mm

Electrical characteristics

Thermal rating (Ith)	32 A	63 A	100 A	125 A	160 A	
Terminals	cage	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 (Ui)	690 V~	690 V~	800 V~	800 V~	800 V~	
Impulse resistant voltage (Uimp)	8 kV	8 kV	8 kV	8 kV	8 kV	
AC 22 A ⁽¹⁾ AC 23 A ⁽¹⁾	400 V	32 A (17 kW)	63 A (35 kW)	100 A (55 kW)	125 A (70 kW)	160 A (88 kW)
	500 V	32 A (20 kW) ⁽²⁾ 20 A (14 kW)	63 A (44 kW)	100 A (69 kW)	125 A (87 kW)	160 A (110 kW)
	690 V	-	40 A (38 kW)	100 A (96 kW)	125 A (120 kW)	125 A (120 kW)
DC 22 A/250 V ^{(1) (3)}	-	*	100	125	125	
DC 23 A/250 V ^{(1) (3)}	-	*	100	125	125	
Breaking capacity (Icu) (kA peak)	5	15	15	15	15	
1 s resistant current (Icw) (kA rms) (Icw)	0.5	2.5	3.5	3.5	3.5	
Icc with fuses (kA rating)	100	100	100	100	80	
Fuse rupture capacity	32 A (gG) 20 A (aM)	63 A	100 A (gG) 63 A (aM) ⁽⁴⁾	125 A (gG) 125 A (aM) ⁽⁴⁾	160 A (gG) 125 A (aM)	
Short circuit capacity (kA prospective peak) (Icm)	0.75	7	12	12	12	
Mechanical endurance (No of operations)	> 10 000	> 30 000	> 30 000	> 30 000	> 30 000	
Index of protection	IP 2X (16 mm ² IP 3X under front plat)	IP 2X B (IP 3X C under front plates) from 6 mm ²	IP 2X B (IP 3X C under front plate) from 10 mm ²			

Example of mounting with Vistop 100 to 160 A

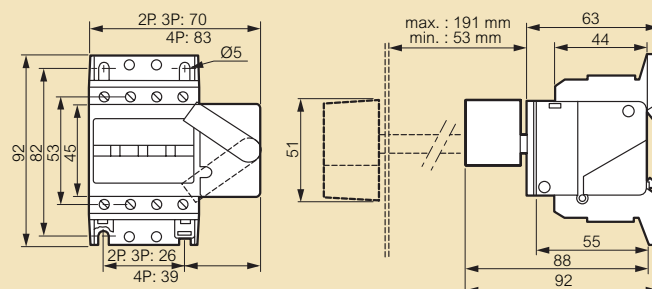


- (1) Test according to IEC 60947-3
AC 22 A / DC 22 A: resistive motor breaking
AC 23 A / DC 23 A: inductive motor breaking
(2) 32 A (20 kW) for AC 22 A
20 A (14 kW) for AC 23 A
(3) No of breaking contacts: 2
(4) 100 A (aM) with blade type cartridge fuses

Dimensions

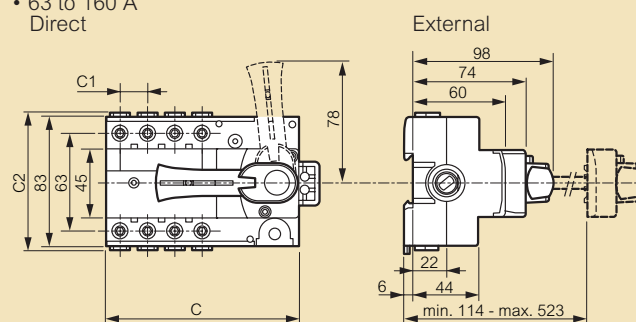
Front handle

- 32 A Cat.Nos 224 98 - 225 00/02



	2P	3P	4P
Weight (kg)	0.220	0.240	0.290

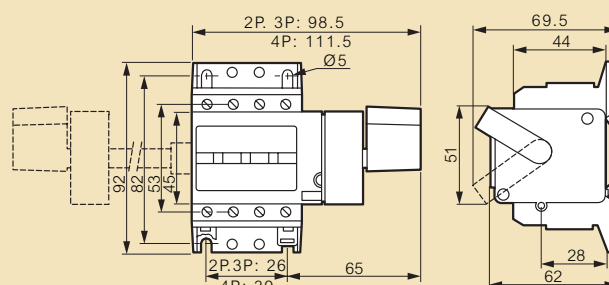
- 63 to 160 A
Direct



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

Side handle

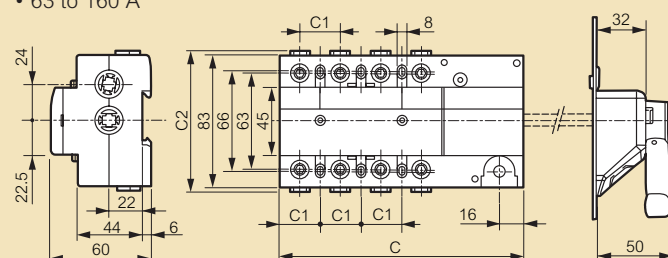
- 32 A Cat.Nos 225 03/05/07



	2P	3P	4P
Weight (kg)	0.300	0.320	0.370

Mounting on rail or with 4 x M5 screws

- 63 to 160 A



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

DPX™-IS 250 isolating switches

63 to 250 A



266 37



266 47



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. 76)

Can be mounted on rail  or on plate in XL³ enclosures

Pack	Cat.Nos		DPX-IS with release
	3P	4P	Can be associated with a residual current relay with separate coils (p. 77), supplied without shunt trip
1	266 30	266 34	Front handle
1	266 31	266 35	63 A
1	266 32	266 36	100 A
1	266 33	266 37	160 A
			250 A
			Right-hand side handle
1	266 40	266 44	63 A
1	266 41	266 45	100 A
1	266 42	266 46	160 A
1	266 43	266 47	250 A
			Left-hand side handle
1	266 50	266 54	63 A
1	266 51	266 55	100 A
1	266 52	266 56	160 A
1	266 53	266 57	250 A

Pack	3P	4P	DPX-IS without release
1	266 02	266 06	Front handle
1	266 03	266 07	160 A
			250 A
			Right-hand side handle
1	266 12	266 16	160 A
1	266 13	266 17	250 A
			Left-hand side handle
1	266 22	266 26	160 A
1	266 23	266 27	250 A

Pack	Cat.Nos	Mounting on rail 
1	262 39	Rail  fixing plate For mounting DPX-IS 250
1	262 99	Spacer Fits on a rail  ; used to mount on the same row DX and DPX/DPX-IS mounted on plate

Pack	Cat.Nos	Mounting on XL ³ plate
1	202 05	For one device
1	206 05	For one or two devices

Pack	Cat.Nos	Rotary handles
		Direct for emergency use For mounting instead of standard handle
1	266 89	Front and right-hand side handle
1	266 90	Left-hand side handle
		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
1	266 87 ⁽¹⁾	For front and side handle device for emergency use

Pack	Cat.Nos	Accessories
1	262 88	Cage terminals Set of 4 terminals for cable 185 mm ² (rigid) or 150 mm ² (flexible)
1	273 22	Spreaders Set of upstream and downstream spreaders
		Rear terminals Set of upstream and downstream terminals
1	265 10	3P
1	265 11	4P
1	262 87	Terminal shields Set of 2
		Padlock⁽²⁾ For locking mechanism in open position
1	266 92	Ronis
1	266 94	Interlock⁽²⁾ Provides closing of 2 devices at the same time

(1) To be ordered with Cat.Nos 266 89 or 266 90
(2) Factory assembled

DPX™-IS 250 isolating switches

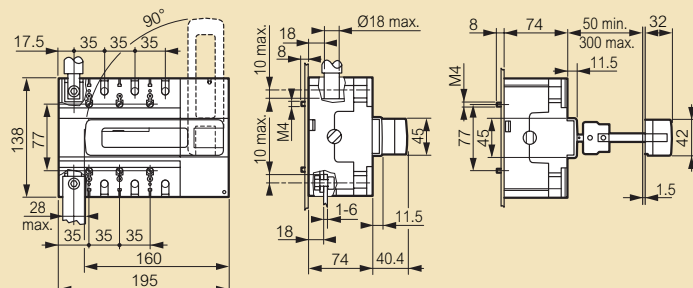
63 to 250 A

Electrical characteristics

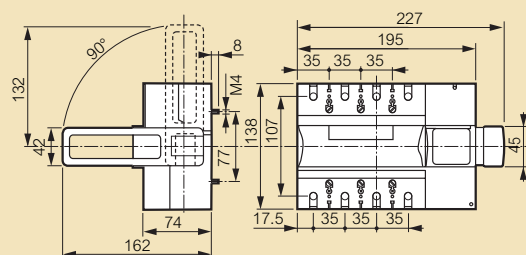
Rating		63 A	100 A	160 A	250 A
Connection	Cu flexible	150 mm ²			
	Cu rigid / Alu	185 mm ²			
Copper bar		Width max. 28 mm			
Nominal rating (Ue)		690 V~ - 250 V~			
Rated insulation voltage (Ui)		800 V~			
Rated impulse withstand voltage (Uimp)		8 kV~			
AC 23 A	400 V~	63 A	100 A	160 A	250 A
	690 V~	63 A	100 A	160 A	160 A
AC 22 A	690 V~	63 A	100 A	160 A	250 A
	690 V~	63 A	100 A	160 A	250 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	63 A	100 A	160 A	250 A
	aM	63 A	100 A	160 A	160 A
Rated closing capacity on short circuit (kA peak) (Icm)		40 kA			
Endurance	mechanical	25 000 operations			
	electrical (AC 23 - 400 V~)	2 500 operations			
Index of protection		IP 20 front panel			

Dimensions

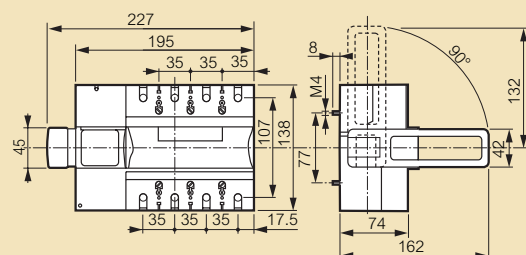
Front handle



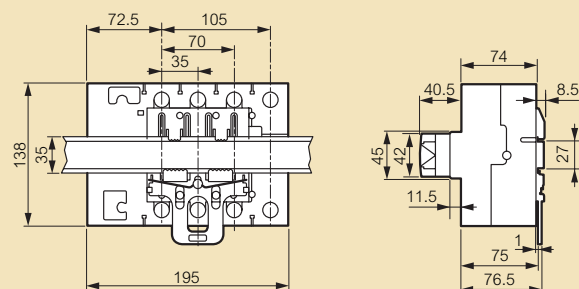
Right lateral handle



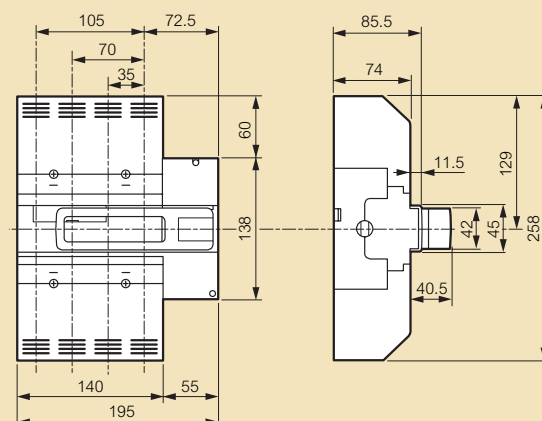
Left lateral handle



Mounted on rail

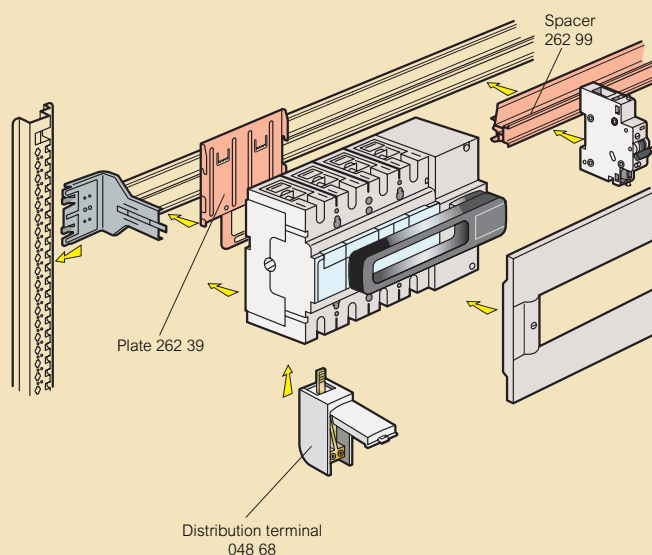


With terminal shields



Mounting

Mounted on rail with plate (XL³ 400, XL³ 800 and XL³ 4000)



DPX™-IS 630 isolating switches

400 to 630 A



266 62



266 70



262 50



262 51

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. 76)
 Can be mounted on plate in XL³ enclosures

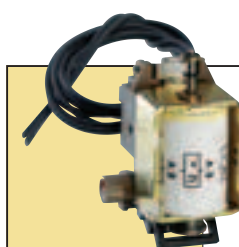
Pack	Cat.Nos		DPX-IS with release
	3P	4P	Can be associated with a residual current relay with separate coil (p. 77), supplied without shunt trip
1	266 72	266 74	Front handle
1	266 73	266 75	400 A
			630 A
1	266 76	266 78	Right-hand side handle
1	266 77	266 79	400 A
			630 A
1	266 80	266 82	Left-hand side handle
1	266 81	266 83	400 A
			630 A

Pack	Cat.Nos		DPX-IS without release
	3P	4P	Front handle
1	266 60	266 62	400 A
1	266 61	266 63	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

Pack	Cat.Nos	Mounting on XL ³ plate
1	202 07	For one device
1	206 07	For one or two devices

Pack	Cat.Nos	Rotary handles
		Direct for emergency use
		For mounting instead of standard handle
1	266 89	Front and right-hand side handle
1	266 90	Left-hand side handle
		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
1	266 87 ⁽¹⁾	For front and side handle device for emergency use

Pack	Cat.Nos		Accessories
			Cage terminals
			Set of 4
1	262 50		For cables 300 mm ² (rigid) or 240 mm ² (flexible)
1	262 51		For cables 2 x 240 mm ² (rigid) or 2 x 185 mm ² (flexible)
	3P	4P	Spreaders
1	262 48	262 49	Set of upstream and downstream spreaders
			Rear terminals
1	263 50	263 51	Set of upstream and downstream swivel rear terminals
1	263 52	263 53	Set of upstream and downstream flat rear terminals
			Terminal shields
1	262 45		Set of 2
			Padlock
1	266 97		For locking mechanism in open position
			Ronis



Common auxiliaries to DPX

see p. 76

(1) To be ordered with Cat.Nos 266 89 or 266 90

DPX™-IS 630 isolating switches

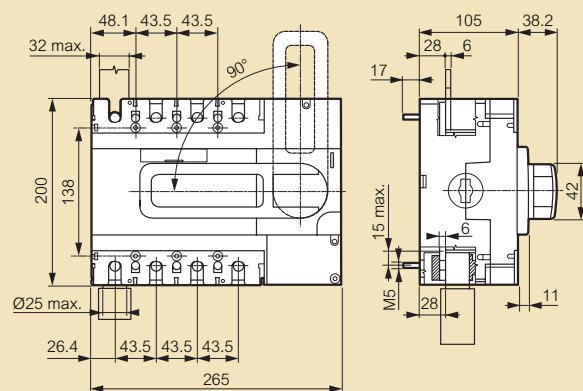
400 to 630 A

Electrical characteristics

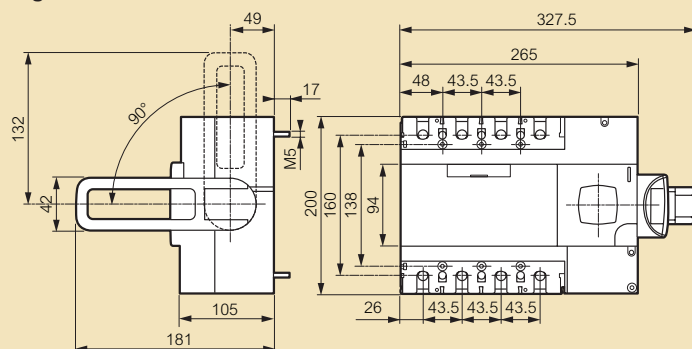
Rating		400 A	630 A
Connection	Cu flexible	1 x 240 or 2 x 185 mm ²	
	Cu rigid/Alu	1 x 300 or 2 x 240 mm ²	
Copper bar		width max. 32 mm	
Nominal rating (Ue)		690 V	
Rated insulation voltage (Ui)		800 V	
Rated impulse withstand voltage (Uimp)		8 kV	
AC 23 A	400 V	400 A	630 A
	500 V	400 A	630 A
	690 V	400 A	630 A
AC 22 A	690 V	400 A	630 A
DC 23 A	250 V V_{DC}	400 A	630 A
Rated closing capacity on short circuit (kA peak) (I _{cm})		40 kA	
I admissible Is (I _{cw})		20 kA efficient	
I admissible with fuse (kA efficient) (I _{cc})		100 kA	
Max. rating of fuse	gG	400 A	630 A
	aM	400 A	630 A
Endurance	mechanical	15 000 operations	
	electrical (AC 23 - 400 V $\sim$)	1 500 operations	
Index of protection		IP 20 front panel	

Dimensions

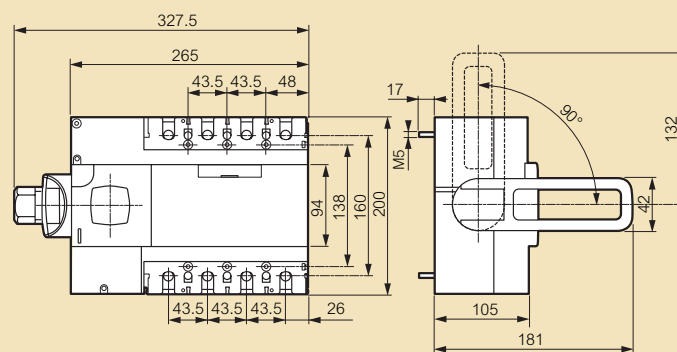
Front handle



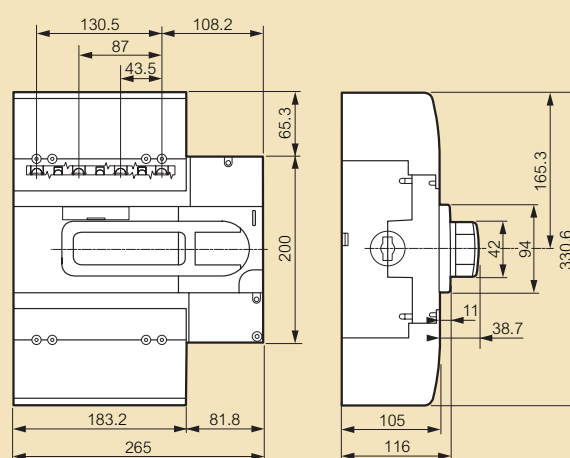
Right lateral handle



Left lateral handle



Front handle with terminal shields



DPX™-IS 1 600 isolating switches

800 to 1 600 A



265 98



262 65

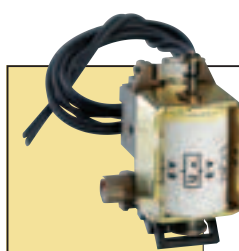
Isolating switches for on-load circuit breaking by visible isolation and positive action of the contacts
 Connection with cage terminals
 Padlock integrated in the handle
 Supplied with terminal shields
 Conform to IEC 60947-3
 Category of use AC 23 A
 Accept the same electrical auxiliaries as the DPX (p. 76)
 Can be mounted on plate in XL³ enclosures

Pack	Cat.Nos		DPX-IS with release
	3P	4P	Can be associated with a residual current relay with separate coil (p. 77), supplied without shunt release
1	265 91	265 95	Front handle
1	265 92	265 96	800 A
1	265 93	265 97	1 000 A
1	265 94	265 98	1 250 A
			1 600 A

	Van-depth handle	
1	265 89	Standard
1	265 90	For emergency use
	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

	Mounting on plate for XL³	
1	206 30	For one device

Pack	Cat.Nos		Accessories
1	262 69		Cage terminals
			Set of 1 terminal for cables without lug 2 x 240 mm ² max. (rigid) or 2 x 185 mm ² max. (flexible)
1	262 70		Set of terminal for cables without lug
			4 x 240 mm ² max. (rigid) or 4 x 185 mm ² max. (flexible)
	3P	4P	Spreaders
1	262 73	262 74	Set of upstream and downstream spreaders
	Rear terminals		Used to convert a DPX with front terminals into DPX with rear terminals
			Set of upstream and downstream rear terminals
1	263 80	263 82	Short terminals
1	263 81	263 83	Long terminals
	Extended front terminals		Set of 2
1	262 67		Short terminals
1	262 68		Long terminals
	3P	4P	Sealable terminal shields
1	262 64	262 65	Set of 2
	Insulation shields		Used to isolate the connections between each pole
1	262 66		Set of 3



Common auxiliaries to DPX

see p. 76

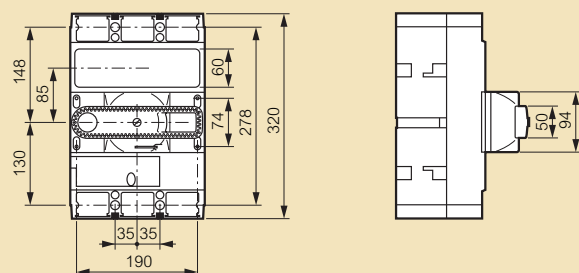
DPX™-IS 1 600 isolating switches

■ Electrical characteristics

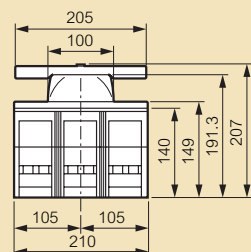
Rating		800 A	1000 A	1250 A	1600 A
Connexion	Cu flexible	2 x 185 mm ² ou 4 x 185 mm ²			
	Cu rigide/Alu	2 x 240 mm ² ou 4 x 240 mm ²			
Copper bar/lugs		50 mm ou 80 mm			
Nominal rating (Ue)		690 V			
Rated insulation voltage (Ui)		690 V			
Rated impulse withstand voltage (Uimp)		8 kV			
AC 23 A	400 V	800 A	1000 A	1250 A	1600 A
	500 V	800 A	1000 A	1250 A	1600 A
	690 V	800 A	1000 A	1250 A	1600 A
DC 23 A	250 V	800 A	1000 A	1250 A	1600 A
I admissible Is (Icw)		20 kA efficient			
I admissible with fuse (Icc)		100 kA efficient			
Max. rating of fuse	gG	800 A	1000 A	1250 A	1600 A
	aM	800 A	1000 A	1250 A	1600 A
Short-circuit making capacity (kA peak) (Icm)		40 kA			
mechanical		10 000			
Endurance	electrical (AC 23 400 V) (Icm)	3 000	3 000	2 000	2 000
Index of protection		IP 20 front panel			

■ Dimensions

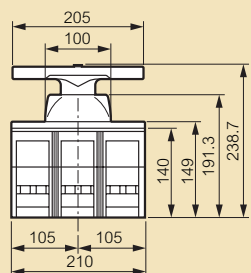
3P



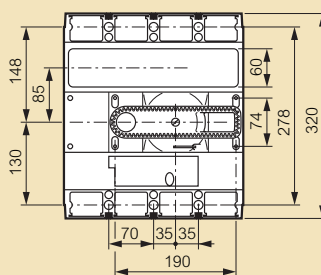
Without handle extension



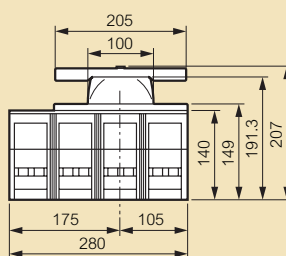
With handle extension



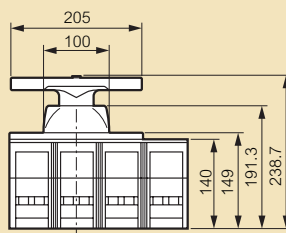
4P



Without handle extension

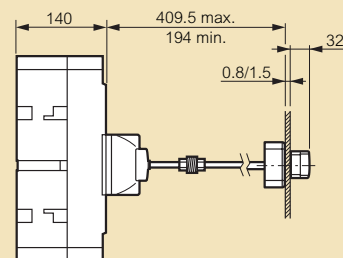
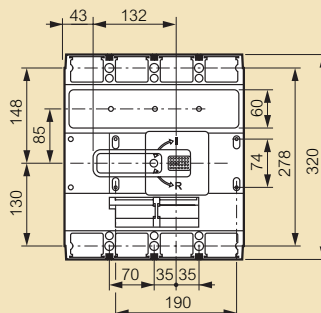


With handle extension

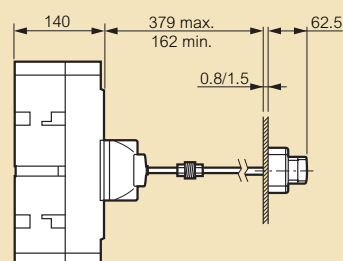
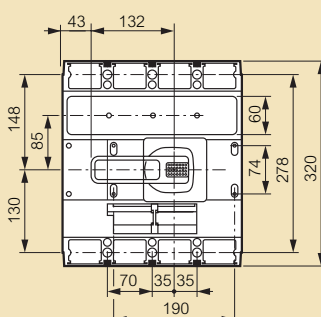


Vari-depth handle

IP 40



IP 55



DPX-I™ trip-free switches
125 to 1 600 A



 Dimensions (p. 78 to 83)

Trip-free switches for on-load circuit breaking and isolation of low voltage electrical circuits
Can be associated to earth leakage modules or to corresponding DPX residual current relays (p. 77)
Mount on rail  up to DPX 250 ER with plate Cat.No 262 08 (DPX-I 125) and Cat.No 262 09 (DPX-I 160 and DPX-I 250 ER)
Conform to IEC 60947-3
Category of use AC 23 A
Connection identical to corresponding DPX

Pack	Cat.Nos		DPX-I 125
1	3P	4P	In
	250 98	250 99	125 A

1	3P	4P	In
	251 98	251 99	160 A

1	3P	4P	In
	252 98	252 99	250 A

1	3P	4P	In
	253 98	253 99	250 A

1	3P	4P	In
	255 86	255 87	400 A
1	255 88	255 89	630 A

1	3P	4P	In
	257 94	257 95	800 A
1	257 96	257 97	1 250 A
1	257 98	257 99	1 600 A

Common auxiliaries to DPX (p. 76)

DPX-I™ trip-free switches
125 to 1 600 A

Electrical characteristics

		DPX-I 125	DPX-I 160	DPX-I 250 ER	DPX-I 250	DPX-I 630	DPX-I 1 600
Rated operating voltage Ue (V)	50/60 Hz	500	500	500	690	690	690
	direct	250	250	250	250	250	250
Rated insulation voltage Ui (V~)		500	500	500	690	690	690
Rated impulse withstand voltage Uimp (kV)		6	6	6	8	8	8
Rated closing capacity on short-circuit Icm (kA)	400 V	3	3.6	4.3	4.3	13	40
Short-time resistive current t = 1 s Icw (kA)		1.7	2.1	3	3	7.6	20
Endurance (o.c cycle)							
	mechanical	8 500	7 000	7 000	7 000	4 000	2 500
	electrical	1 500	1 000	1 000	1 000	1 000	500
Conventional thermal current (A)		125	160	250	250	630	1 600
Nominal current of use (A) AC 23 A (690 V~)		125 (500 V)	160 (500 V)	250 (500 V)	250	630	1 600
DC 23 A (250 V~)		125	160	250	250	630	-

Dimensions

Dimensions of DPX-I identical to corresponding DPX

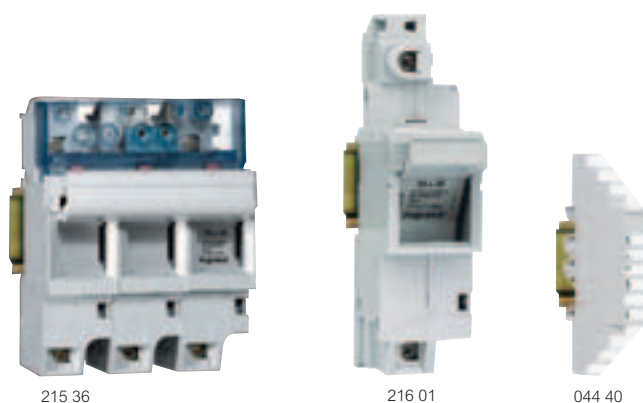
DPX-I	Dimensions
DPX-I 125	DPX 125 (see p. 78)
DPX-I 160	DPX 160 (see p. 79)
DPX-I 250 ER	DPX 250 ER (see p. 80)
DPX-I 250	DPX 250 (see p. 81)
DPX-I 630	DPX 630 (see p. 82)
DPX-I 1 600	DPX 1 600 (see p. 83)

Choice of faceplates and distribution equipment

Equipment of DPX-I identical to corresponding DPX:

Devices	XL ³ 400	XL ³ 800	XL ³ 4 000
DPX/DPX-I 125	(p. 176-177)	(p. 188-189)	(p. 204-205)
DPX/DPX-I 160	(p. 176-177)	(p. 188-189)	(p. 204-205)
DPX/DPX-I 250 ER	(p. 176-177)	(p. 188-189)	(p. 204-205)
DPX/DPX-I 250	(p. 176-177)	(p. 188-189)	(p. 206-207)
DPX/DPX-I 630	(p. 176-177)	(p. 188-189)	(p. 206-207)
DPX/DPX-I 1 600	(p. 176-177)	(p. 188-189)	(p. 206-207)

SP fuse carriers with protected terminals



215 36

216 01

044 40

Conform to IEC 60269-2
Veritas approved
Height under front plate 44 mm
Mixed socket screw head for easier cable clamping
Screw or rail and mounting

Pack	Cat.Nos	SP 51 for HRC fuses 14 x 51			No of modules
5	215 01	1P	Connection	1 x 35 mm ²	1.5
1	215 03	2P	or	2 x 16 mm ²	3
1	215 04	3P			4.5
1	215 05	3P + equipped neutral			6
With 5 A - 250 V~ changeover micro-switch Cartridge presence, prebreak and device against single-phase operation					
1	215 36	3P	1 x 35 mm ² or 2 x 16 mm ²		4.5

Pack	Cat.Nos	SP 58 for HRC fuses 22 x 58			No of modules
3	216 01	1P	Connection	1 x 50 mm ²	2
1	216 04	3P	or	2 x 25 mm ²	6
1	216 05	3P + equipped neutral			8
With 5 A - 250 V~ changeover micro-switch Cartridge presence, prebreak and device against single-phase operation					
1	216 36	3P	1 x 50 mm ² or 2 x 25 mm ²		6

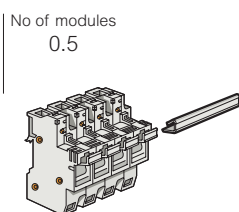
Accessories

Spacing unit

Placed between mechanisms to aid cooling

Link handle

For SP 51 or SP 58
Length 300 mm, can be cut to required length



No of modules
0.5

SP fuse carriers with protected terminals

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 standardized according to IEC 60269-2/2-1
They can be reduced or increased under certain specific applications

Index of protection: IP 2X - IP 2XC - under front plate

Equipment derating

Recommended for equipment exposed to high temperatures:

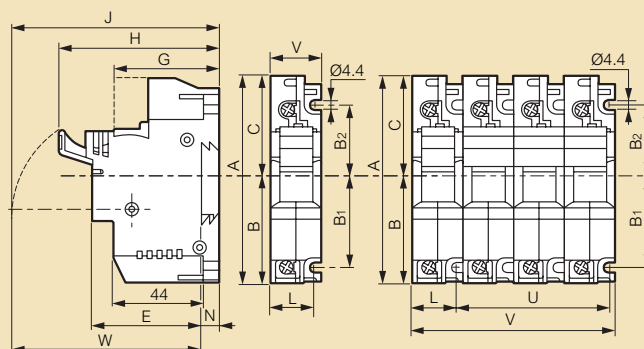
- Ambient temperature over 35 °C: derate fuse by one rating per 10 °C (UTE C 20-051 / IEC 60943)
- Side-by-side equipment and simultaneous function

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

Dimensions (mm)



	A	B	B ₁	B ₂	C	E	G	H	J
SP 51	106	54.5	45	35	51.5	55	53	1P 2P/3P	1P 96
SP 58	140	74	65	45	66	59	53	81 84 87 90	111

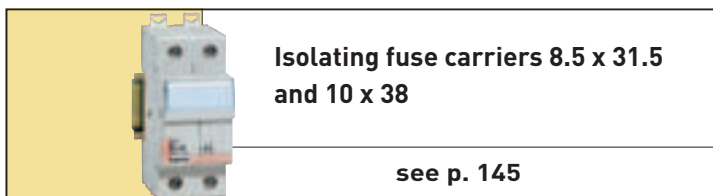
	J	L	N	2P	3P	4P	1P	2P	3P	4P	1P	2P/3P
SP 51	99	20.7	9	26.5	53	79.5	26.5	53	79.5	106	87	90
SP 58	114	27	9	36	72	108	36	72	108	144	101	109

HRC cartridge fuses



Technical data and dimensions (p. 113 to 115)

Pack	Cat.Nos		Cylindrical type gG			Pack	Cat.Nos		Cylindrical type aM (motor rated)					
			Conform to EN 60269-1 and 2, IEC 60269-1, 2 and 2-1 Veritas approved						Conform to EN 60269-1, IEC 60269-1 Veritas approved					
	Without indicator	With indicator	Rating (Amps)	Voltage ~ (Volts)	Rupture capacity (Amps)		Without indicator	With indicator	Rating (Amps)	Voltage ~ (Volts)	Rupture capacity (Amps)			
			10 x 38 HRC						8.5 x 31.5					
10	133 94		0.5	500	100 000	10	120 04		4	400	20 000			
10	133 01		1			10	120 06		6					
10	133 02	134 02	2			10	120 08		8					
10	133 04	134 04	4			10	120 10		10					
10	133 06	134 06	6									Conform to EN 60296-1 and 2, IEC 60269-1, 2 and 2-1 Veritas approved		
10	133 08	134 08	8									10 x 38 HRC		
10	133 10	134 10	10			500	100 000	10	130 95		0.50	500	100 000	
10	133 16	134 16	16					10	130 01		1			
10	133 20	134 20	20					10	130 02		2			
10	133 25	134 25	25					10	130 04		4			
10	143 06		6	10	130 06				6					
10	143 10		10	10	130 08				8					
10	143 16	145 16	16	10	130 10				10					
10	143 20	145 20	20	10	130 12				12					
10	143 25	145 25	25	10	130 16				16					
10	143 32	145 32	32	10	130 20 ⁽²⁾				20	400	400			
10	143 40	145 40	40	10	130 25 ⁽²⁾		25	400						
10	143 50 ⁽¹⁾	145 50 ⁽¹⁾	50					14 x 51 HRC						
10	153 16		16	500	100 000	10		141 02	2	500	100 000			
10	153 20		20			10		141 04	4					
10	153 25		25			10		141 06	6					
10	153 32		32			10		141 08	8					
10	153 40		40			10	140 10	141 10	10					
10	153 50	155 50	50			10	140 12	141 12	12					
10	153 63	155 63	63			10	140 16	141 16	16					
10	153 80	155 80	80			10	140 20	141 20	20					
10	153 96	155 96	100			10	140 25	141 25	25					
10	153 97 ⁽¹⁾	155 97 ⁽¹⁾	125			10	140 32	141 32	32	400				
				22 x 58 HRC			10	140 40	141 40			40		
							10	140 50 ⁽¹⁾	141 50 ⁽¹⁾			50		
							10	150 25	151 25	25	500	100 000		
							10	150 32	151 32	32				
							10	150 40	151 40	40				
							10	150 50	151 50	50				
							10	150 63	151 63	63				
							10	150 80	151 80	80				
							10	150 96	151 96	100				
							10	150 97	151 97	125			400	
											Neutral links			
							10	123 00	8.5 x 31.5					
							10	133 00	10 x 38					
							10	143 00	14 x 51					
							10	153 00	22 x 58					

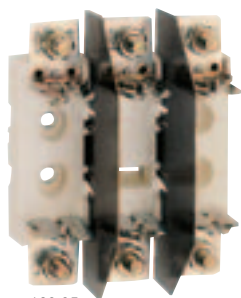


Isolating fuse carriers 8.5 x 31.5
and 10 x 38

see p. 145

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

blade type cartridge fuses



160 05



162 00



170 02



199 16



Terminal shield 199 22



Technical data and dimensions (p. 113 to 115)

Pack		Cat.Nos		Bases for blade type cartridge fuses			Pack	Cat.Nos	Accessories
				Fibreglass reinforced polyester base Contact points are sprung except for size 4 (bolts) Bases with 10 A - 250 V~ micro-switch have a "cartridge present" signalling device for fuses with standardised striker Conform to EN 60269-1 and 2 and IEC 60269-1, 2 and 2-1 - VDE 0636-21 Veritas approved					
				Size 00 - 100 A					
		Single pole	Triple pole ⁽¹⁾	Bases	Mounting	Connection			
3		160 01		bare	└─ rail	M8	5	199 02	Handle For all sizes
1			160 05	bare	└─ rail		10	199 09	Separation dividers Size 00 (for Cat.No 160 01 and Cat.No 162 00)
3		162 00					10	199 15	Size 0
1			162 04				10	199 16	Size 1
							10	199 17	Size 2
							2	199 18	Size 3
							2	199 19	Size 4
									Terminal shields For complete protection of blade type cartridge fuse bases
							10	199 20	Size 00
							10	199 21	Size 0
							10	199 22	Size 1
							10	199 23	Size 2
1			165 03	bare	screw or	M8			
3		165 02		with micro-switch	└─ rail				
3		170 00		bare	screw				
1			170 03	bare	or	M10			
1		170 02		with micro-switch ⁽²⁾	└─ rail				
3		175 00		bare	screw or				
1			175 03	bare	└─ rail	M10			
1		181 02		Size 3 - 630 A with micro-switch	screw	M12			
1		185 02		Size 4 - 1 250 A with micro-switch	screw	M16			

(1) Supplied with 2 dividers
(2) Base with 2 micro-switch, please consult us

HRC blade type cartridge fuses

gG/aM type



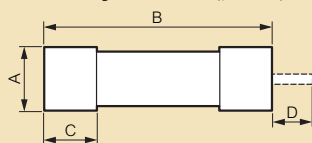
Technical data and dimensions (p. 113 to 115)

Pack	Cat.Nos		Type gG (IEC) / gL (VDE)			Pack	Cat.Nos		Type aM (motor rated)		
			Conform to EN 60269-1 and 2 - IEC 60269-1, 2 and 2-1 - VDE 0636-21 Veritas approved						Conform to EN 60269-1 and 2 - IEC 60269-1, 2 and 2-1 - VDE 0636-22 Veritas approved		
			Fully insulated end plate and handle lugs						Fully insulated end plate and handle lugs		
			Rating (Amps)	Voltage ~ (Volts)	Rupture capacity (Amps)				Rating (Amps)	Voltage ~ (Volts)	Rupture capacity (Amps)
			With indicator	With striker					With indicator	With striker	
			Size 00						Size 00		
10	163 18		25			3	160 35		63		
10	163 20		32			3	160 40		80	500	120 000
10	163 22		35			3	160 45		100		
10	163 25		40			3	160 50 ⁽¹⁾		125	400	
10	163 30		50						Size 0		
10	163 35		63	500	120 000	3	166 35		63		
10	163 40		80			3	166 40		80		
10	163 45		100			3	166 45		100	500	120 000
10	163 50		125			3	166 50		125		
10	163 55		160			3	166 55		160		
			Size 0						Size 1		
3	168 35		63			3	171 50		125		
3	168 40		80			3	171 55		160		
3	168 45		100	500	120 000	3	171 60		200	500	120 000
3	168 50		125			3	171 65		250		
3	168 55		160						Size 2		
			Size 1			3	176 60		200		
3	173 50		125			3	176 65		250		
3	173 55		160	500	120 000	3	176 70		315	500	120 000
3	173 60		200			3	176 75		400		
3	173 65		250						Size 3		
			Size 2			3	180 75		500		
3	178 60		200			3	180 80		630	500	120 000
3	178 65		250						Size 4		
3	178 70		315	500	120 000				630		
3	178 75		400						800		
			Size 3			1	184 80		1000	500	120 000
3	181 25		500			1	184 85				
3	181 30		630	500	120 000	1	184 90				
			Size 4								
1	185 80		630								
1	185 85		800								
1	185 90		1 000	500	120 000						
1	185 95 ⁽¹⁾		1 250								

(1) Overrating not described by standards

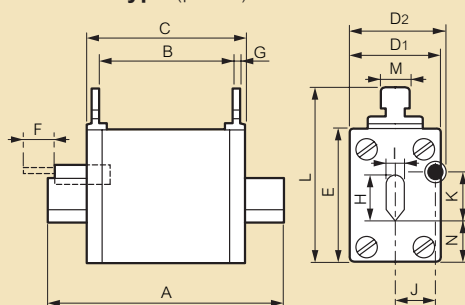
cartridge fuses

■ HRC cylindrical (p. 110)



Size (mm)	A	B	C	D
8.5 x 31.5	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

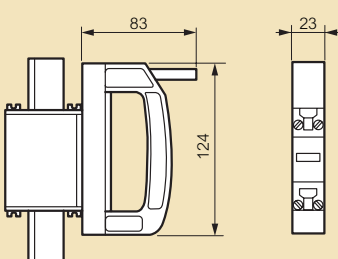
■ Blade type (p. 111)



Size (mm)	00	0	1	2	3	4
A	78	125	135	150	150	200
B	44	62	64	64	61	61
C	52	67	74	74	75	78
D1	30	36	47	50	70	90
D2	-	39	47	50	64	77
E	46	46	52	60	75	107
F	-	14	14	14	14	14
G	2.5	2.5	3	3	2.5	2.5
H	15	15	21	28	36	60
I	6	6	6	6	6	8
J	-	14.5	16	19	23	27
K	-	14.5	14.5	14.5	14.5	14.5
L	59	59	64	72	88	119
M	10	10	10	10	10	10
N	14.5	14.5	14.5	14.5	18	23

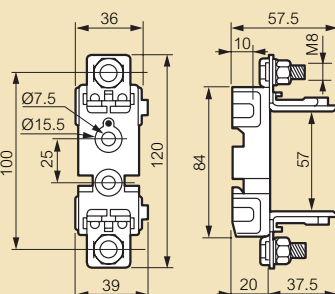
Note: Force of striker at the beginning of stroke 1.9 kg and 1 kg at the end according to NF C 63-213

■ Removable handle (p. 111)

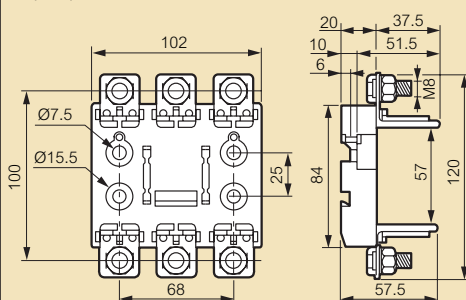


■ Bases for blade type (p. 111)

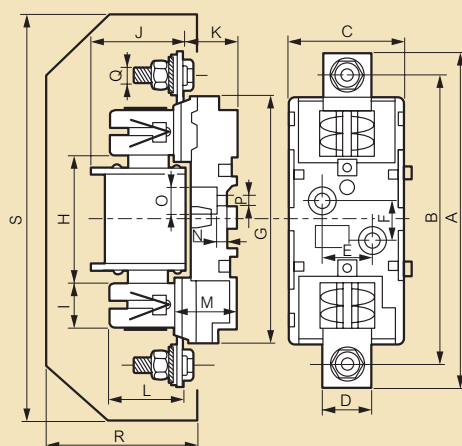
Size 00
Single pole Cat.Nos 160 01 - 162 00



Triple pole Cat.Nos 160 05 - 162 04



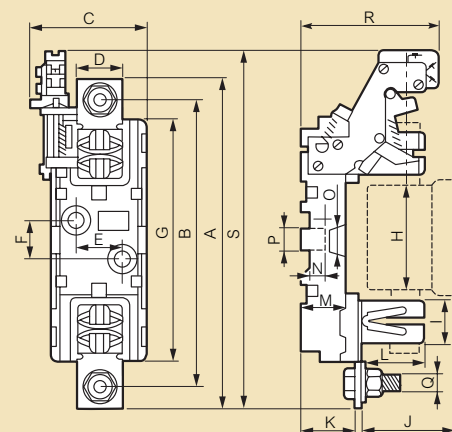
Sizes 0 to 4
Single pole without micro-switch



Size (mm)	0	1	2	3	4
A	171	200	225	250	320
B	150	175	200	210	270
C	47	59	67	82	114
D	20	25	30	41	51
E	-	30	30	30	45
F	25	25	25	25	30
G	125	150	170	158	220
H	75	80	80	83	98
I	23	28	32	35	50
J	68	68	83	92	125
K	24	35	35	35	40
L	43	46	58	68	93
M	28	38	39	40	40
N	11.5	13.5	13.5	14	14
O	14	20	20	20	28
P	7.5	10.5	10.5	10.5	13
Q	8	10	10	12	16
R	96	107	121	110	138
S	180	224	240	266	336

Size 0 to 4 (continued)

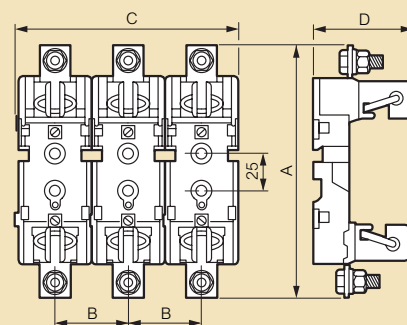
Single pole with micro-switch



Size (mm)	0	1	2	3	4
A	171	200	225	250	320
B	150	175	200	210	270
C	63	72	78	91	114
D	20	25	30	41	51
E	-	30	30	30	45
F	25	25	25	25	30
G	125	150	170	158	220
H	75	80	80	83	98
I	23	28	32	35	50
J	68	68	83	92	125
K	24	35	35	35	40
L	43	46	58	68	93
M	28	38	39	40	40
N	11.5	13.5	13.5	14	14
O	14	20	20	20	28
P	7.5	10.5	10.5	10.5	13
Q	8	10	10	12	16
R	75	85	90	94	105.5
S	198	215	229	242	280

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

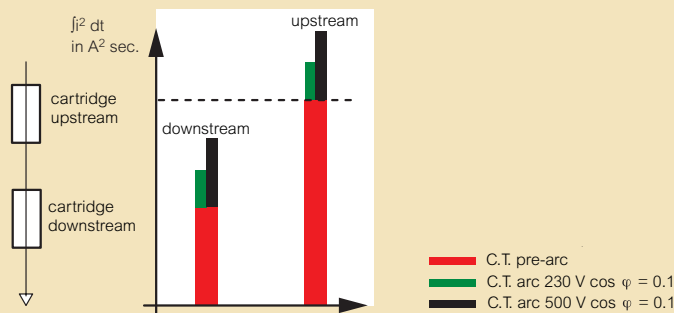
selection charts

■ 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 $\bar{I}^2t$ tables. The total $\bar{I}^2t$ of the protection system the furthest downstream must be less than the upstream protection pre-arc $\bar{I}^2t$

■ 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
800	315	500
1 000	400	630
1 250	500	800

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
800	500	500
1 000	630	500
1 250	800	630

■ 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		S. 4 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	gG	aM
0.37	0.5	1.8	0.75	1	2	1.5	2	2.6	4	2	4	2														
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	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⁾	200	125	200	125	200	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																		
90	125	295	160	218	300																					
110	150	356	200	270	370	250	340	360																		
132	180	425	250	340	475	335	450	472																		
160	218	520	315	430	584	450	610	608																		
220	300	710	400	550	750	500	680	680																		
																										800

(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 overload or short-circuit

gG cartridge fuses:

The selectivity ratio is 1.6 instead of 2

The breaking capacity of 120,000 A provides full protection in the most critical situations

aM cartridge fuses:

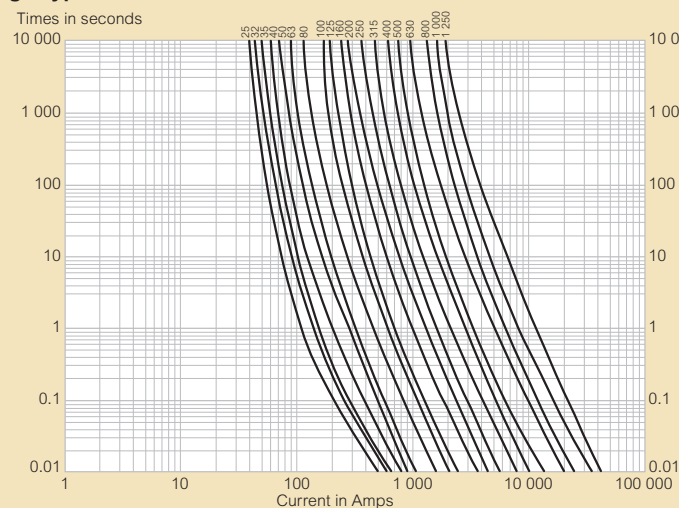
These cartridge fuses must be combined with a low-overload thermal protection device

The breaking capacity of 100,000 A from size 10 x 38 upwards provides full protection in the most critical situations

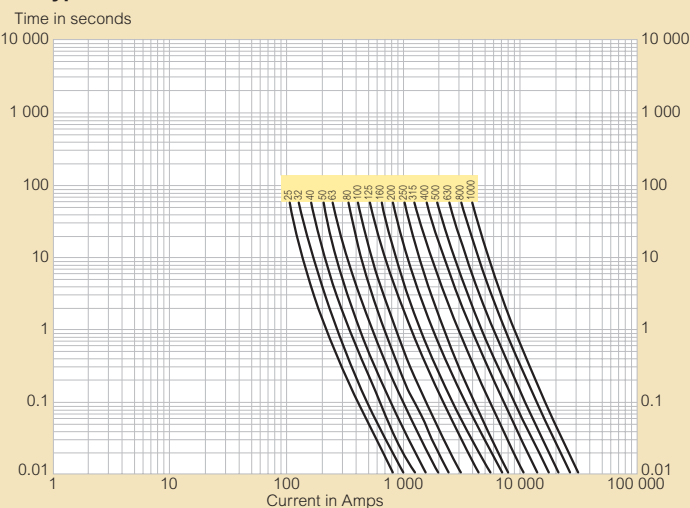
Cylindrical industrial cartridge fuses can be used to protect DC circuits supplied at up to 48 V max.

■ Rupture capacity curves

gG type

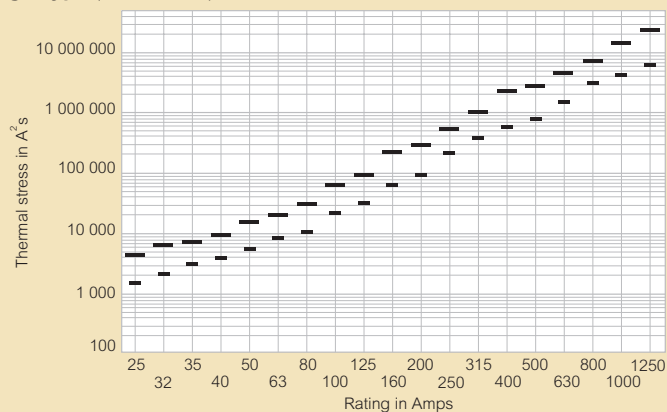


aM type



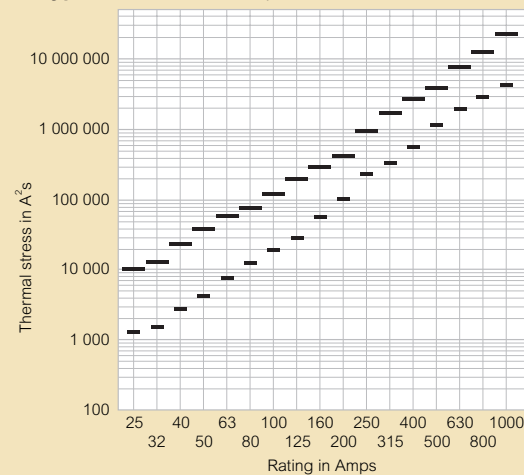
■ Thermal stresses ($\int i^2 dt$)

gG type (for 500 V~)

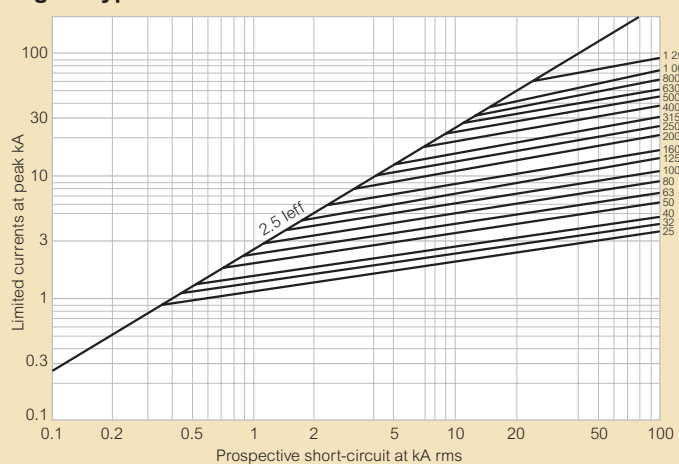


- Total maximum thermal stress for critical current
- - Pre-arc thermal stress for critical current

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



■ gG⁽¹⁾ type limitation curve

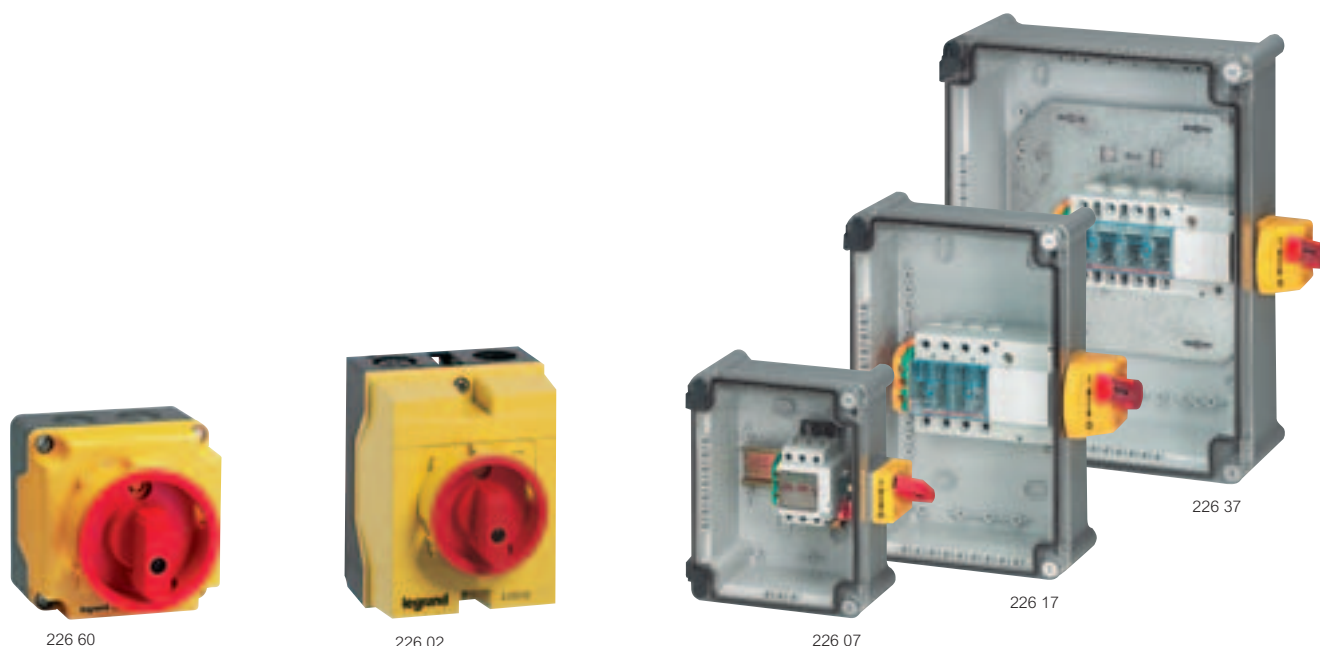


(1) For aM cartridge fuses, see technical data sheets in the Legrand e-catalogue

■ 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
800		51		49
1000		77		70
1250		80		75

proximity switching 12 to 160 A



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

IP 65

Pack	Cat.Nos	Full load switch units 12 and 25 A
		Totally isolated enclosure - Black base, yellow cover with side spaces for easier cabling Red front mounted rotary knob on yellow background for immediate visual identification from a distance (0 position: open ; I position: closed) The rotary knob can take up to 4 padlocks (Ø6 mm) in 0 position
		12 A - IK 08 For breaking/isolated a single speed motor Supplied with 2 x 6 mm ² relay terminal
1	226 60	3P
1	226 62	3P+N
		25 A - IK 07 Supplied with 2 anti-fraud locking screws and 1 relay terminal for continuity of neutral or earth (2 x 10 mm ²) For breaking/isolating: - a single speed motor (Cat.Nos 226 00/02) - a two-speed motor (Cat.No 226 04)
1	226 00	3P + closing contact for report of position
1	226 02	3P+N - 2 speed N can be used as a contact for report of position
1	226 04	6P

Pack	Cat.Nos	Full load switch units 32 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)
		32 A - IK 07 Supplied with 2 cable glands 21P - ISO 25
1	226 05	3P
1	226 07	4P
		Connection Earth terminal nominal capacity 16 mm ² cage terminals 10 mm ²
		63 A Supplied with 2 cable glands 29P - ISO 32
1	226 15	3P
1	226 17	4P
		cage terminals 50 mm ² 50 mm ² flexible 50 mm ² 70 mm ² rigid
		100 A Supplied with 2 cable glands 36P - ISO 50
1	226 25	3P
1	226 27	4P
		cage terminals 50 mm ² 50 mm ² flexible 50 mm ² 70 mm ² rigid
		125 A Supplied with 2 cable glands 36P - ISO 50
1	226 33	3P
1	226 34	4P
		cage terminals 50 mm ² 50 mm ² flexible 50 mm ² 70 mm ² rigid
		160 A - IK 07 Supplied with 2 cable glands 36P - ISO 50
1	226 35	3P
1	226 37	4P
		cage terminals 50 mm ² 50 mm ² flexible 50 mm ² 70 mm ² rigid

proximity switching 12 to 160 A

■ Full load switch units 12 and 25 A

Technical characteristics

Conform to EN/IEC 60947-3, BS EN 60947-3, EN/IEC 60204-1, VDE 0113

IP 65 according to IEC 60529

Insulating voltage UI = 690 V

Self-extinguishing at 960°

Thermal current in enclosure: Ithe: 12 A for 12 A
Ithe: 25 A for 25 A

Enable classe II installation

• Category of use

	226 60/62	226 00/04
AC 21	12 A (8.5 kW)	25 A (17 kW)
AC 3		
3 x 400 V	7 A (5.5 kW)	13.5 A (7.5 kW)
3 x 690 V	3.5 A (3 kW)	8 A (7.5 kW)

• Connection

12 A: Max. 4 mm² (rigid) - 2.5 mm² (flexible)

4 entries: 2 top, 2 bottom - Ø19 mm PG 11 (Øcable 10 mm max.)

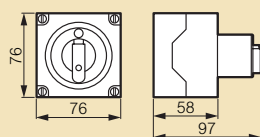
25 A: Max. 6 mm² (rigid) - 6 mm² (flexible with lugs)

4 entries: 2 top, 2 bottom - Ø23 mm PG 16 (Øcable 14 mm max.)

Dimensions

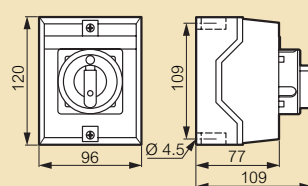
12 A

Cat.Nos 226 60/62



25 A

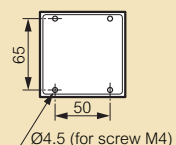
Cat.Nos 226 00/02/04



Fixing centres

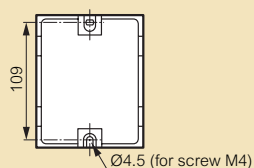
12 A

Cat.Nos 226 60/62



25 A

Cat.Nos 226 00/02/04



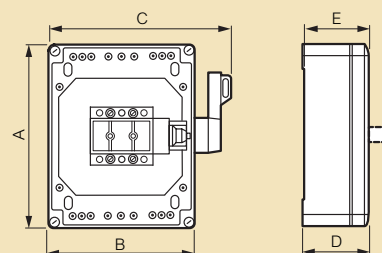
■ Full load switch units 32 to 160 A

Electrical characteristics

Identical to corresponding Vistop isolating switch

Switch units	Cat.Nos	Characteristics
32 A	226 05/07	Vistop 32 A p. 101
63 A	226 15/17	Vistop 63 A p. 101
100 A	226 25/27	Vistop 100 A p. 101
125 A	226 33/34	Vistop 125 A p. 101
160 A	226 35/37	Vistop 160 A p. 101

Dimensions



Cat.Nos		A	B	C	D	E
226 05/07	32 A	200	160	218	93	93
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



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