

CATALOGUE

2016
2017



PRODUCTS AND SYSTEMS
FOR ELECTRICAL AND DIGITAL BUILDING INFRASTRUCTURES

 **legrand®**

ACBs, MCCBs, HEAD EQUIPMENT & ENERGY COMPENSATION



NEW PRODUCTS 2016



CX³
energy management
system
(p. 92)

Energy management & measurement



NEW
P. 92
CX³ energy
management
system

Reactive energy compensation



P. 104
Alpimatic
automatic
capacitor banks



P. 120
DRX 125
thermal magnetic
MCCBs ≤ 125 A



P. 131
DPX³ 250
electronic release
MCCBs ≤ 250 A



P. 142
DPX³ 1600
thermal magnetic
MCCBs ≤ 1250 A



NEW
P. 148
DMX³ 1600
ACBs ≤ 1600 A

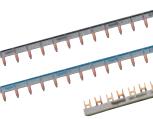


P. 159
DPX-IS
isolating switches
≤ 1600 A



P. 171
HRC cartridge
fuses

Supply busbars, distribution blocks & copper busbars



P. 191
Supply busbars



EMDX³
multi-function
measuring units
(p. 95)

P. 94 EMDX³ electrical energy meters & multi-function measuring units └ rail mounting	NEW P. 95 EMDX³ multi-function measuring units on door	P. 102 Ammeters & voltmeters └ rail mounting	P. 103 Ammeters & voltmeters on door
P. 108 Alpibloc fixed capacitor banks	P. 111 Alpivar³ capacitors	P. 112 Alpican capacitors	NEW P. 115 Alptec power factor controllers
P. 122 DRX 250 thermal magnetic MCCBs ≤ 250 A	P. 124 DRX 630 thermal magnetic MCCBs ≤ 630 A	P. 128 DPX³ 160 thermal magnetic MCCBs ≤ 160 A	P. 130 DPX³ 250 thermal magnetic MCCBs ≤ 250 A
P. 134 Auxiliaries & accessories for DPX³ 160/250	P. 136 Auxiliaries & accessories for DPX³ 630/1600	P. 137 DPX³ 630 electronic release MCCBs ≤ 630 A	P. 140 DPX³ 630 earth leakage modules
P. 142 DPX³ 1600 electronic release MCCBs ≤ 1600 A	P. 146 Auxiliaries & accessories for DPX³ 630/1600	P. 146 Supervision system	P. 147 Residual current relays and coils
P. 152 DMX³ 2500/4000 ACBs ≤ 4000 A	P. 153 DMX³ 6300 ACBs ≤ 4000 A	P. 154 DMX³ - I trip free switches ≤ 6300 A	P. 158 Vistop isolating switches ≤ 160 A
P. 163 DPX³-I trip free switches ≤ 1600 A	P. 164 DCX-M changeover switches ≤ 1600 A	P. 168 Proximity switches	P. 170 SP fuse carriers
P. 172 Blade type cartridge fuses	P. 176 MPX³ MPCBs for 3-phase motors ≤ 45 kW	P. 180 CTX³ industrial contactors 9 A ≤ 800 A	P. 184 RTX³ thermal relays
P. 193 Modular distribution blocks ≤ 250 A	P. 194 Power distribution blocks ≤ 400 A	P. 197 Flat copper busbars & accessories	P. 199 Isolating supports for busbars ≤ 6300 A



DMX³ 1600
air circuit breakers
up to 1600 A
(p. 148)



Automation control units for supply invertors
(p. 157)



Conform to IEC/EN 61131-2 (Programmable controllers)

CX³ energy management system enables to measure, control and visualize the state of \square rail mounting protection devices (MCBs, RCCBs, RCBOs, etc...) and head equipment (DMX³ and DPX³), locally ("Stand alone") or remotely. All the modules of the system are equipped with two specific communication ports: one at the backside (for communication rail) and one underneath (for communication patch cords). Power supply with specific module Cat.No 4 149 45 (p. 93).

Remote configuration possible with the help of the Energy Management Configuration Software, available for free download via E-Catalogue (giving also access to a 30-day trial version of Energy Management Software Cat.No 4 149 38/39)

Pack	Cat.Nos	Measurement modules	Pack	Cat.Nos	Universal control module	Number of modules
1	4 149 19 ¹	For measuring current, voltage, active/reactive power and other values Conform to IEC/EN 61557-12 Accuracy: class 0.5 Direct connection up to 63 A Single-phase measuring module and closed Rogowski coil up to 63 A Consumption: 0.409 W - 34.1 mA (12 V \equiv) Connection with CT 5 A measuring module connected via current transformers (CT) Consumption: 0.391 W - 32.6 mA (12 V \equiv)	1	4 149 32 ¹	2 relays: 240 V \sim - 6 A Enables to remotely control different electrical loads or motorised controls associated to \square rail mounting protection devices or head equipment (DPX ³ MCCBs) Equipped with DIP switches (on the side) allowing product configuration: contact type (NO + NC, 2 NO, etc...) and function (maintained or momentary contact) Consumption: 0.456 W - 38 mA (12 V \equiv)	1
1	4 149 20 ¹	3-phase measuring module and closed Rogowski coil up to 63 A Consumption: 0.418 W - 34.8 mA (12 V \equiv)	1	4 149 31 ¹	Control and state reporting module For CX³ latching relays and 1 and 2-module contactors up to 25 A Indicates the position of the contacts and enables remote control of its associated product Equipped with DIP switches (on the side) allowing product configuration: selection of the main product (latching relay or contactor). To fit on the left-hand side of the CX ³ latching relays and contactors Consumption: 0.372 W - 31 mA (12 V \equiv)	1
1	4 149 23		1			
1	4 149 26 ¹	Pulse concentrator For collecting and transmitting measurements taken by universal pulse energy meters (water, gas, etc...) Up to 3 pulse circuits Consumption: 0.288 W - 24 mA (12 V \equiv)	1			
1	4 149 29 ¹	State reporting modules Auxiliary + fault signalling contact Indicates the position of the contacts and the fault tripping of its associated device. To fit on the left-hand side of DX ³ MCBs, RCCBs, RCBOs and isolating switches Consumption: 0.236 W - 19.7 mA (12 V \equiv)	0.5			
1	4 149 30 ¹	Universal signalling module Equipped with 3 LED lights: green, red and yellow Indicates various type of information, according to selected configuration: contacts position, plugged-in or drawn-out product, etc... Equipped with DIP switches (on the side) allowing product configuration: selection of information type and of the LED behaviour Compatible with \square rail mounting protection devices or head equipment (DMX ³ and DPX ³) Consumption: 0.377 W - 31.4 mA (12 V \equiv)	1			

1 : Enables upstream busbar connection

CX³ energy management system (continued)



4 149 36



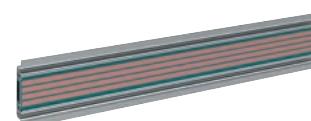
4 149 38



0 261 78



0 046 89



4 149 01 installed on L rail



4 149 07

Conform to IIEC/EN 61131-2 (Programmable controllers)

CX³ energy management system enables to measure, control and visualize the state of L rail mounting protection devices (MCBs, RCCBs, RCBOs, etc...) or head equipment (ACBs, MCCBs, etc...), locally ("Stand alone") or remotely. All the modules of the system are equipped with two specific communication ports: one at the backside (for communication rail) and one underneath (for patch cords).

Power supply with specific module Cat.No 4 149 45 (p. 93)

Remote configuration possible with the help of the Energy Management Configuration Software, available for free download via E-Catalogue (giving also access to a 30-day trial version of Energy Management Software Cat.No 4 149 38/39)

Pack	Cat.Nos	Stand alone configuration module	Number of modules	Pack	Cat.Nos	Communication interfaces	Number of modules
1	4 149 36 ¹	L rail mounting Optional module for "stand alone" supervision need Enables to configure, test and control CX ³ energy management system and to visualize supervision data No computer or IP connection required Consumption: 0.438 W - 36.5 mA (12 V \pm)	4	1	4 149 40	RS485 / CX³ energy management system RS485 / CX ³ energy management system conversion Consumption: 0.344 W - 28.7 mA (12 V \pm)	1
1	0 261 56	Door mounting touch screen Optional touch screen allowing to: - visualize information coming from DX ³ , DPX ³ and DMX ³ protection devices and EMDX ³ multi-function measuring units and - control protection devices equipped with the universal control module Cat.No 4 149 32 (p. 92) Can manage up to 9 devices Power supply: 18-30 V \pm IP connection For mounting on door or solid faceplate Door cut: 92 x 92 mm		1	0 046 89	RS485 / Ethernet RS485 / Ethernet conversion (for connection to an IP network)	3
1	4 149 38	Remote configuration and supervision Energy management software for 1 computer (user key) Allows remote configuration, test, control and visualization of data collected from EMDX ³ electrical energy meters and multi-function measuring units and CX ³ energy management system on one computer connected to the network 30-day free trial version available for download via E-Catalogue		1	4 149 45	Power supply module 500 mA 12 V \pm stabilized power supply module for CX ³ energy management system	1
1	4 149 39	Software licence agreement (user key) for 32 Modbus addresses or 32 pulse modules		1	4 149 01 ²	Connection accessories Communication rails To be fitted on L rail or spacer Allows data transmission between the different modules of CX ³ energy supervision system	
1	0 261 78	Software licence agreement (user key) 255 Modbus addresses or 255 pulse modules		1	4 149 02 ²	18 modules	
1	0 261 79	Energy management multi-support web servers Allow remote configuration, test, control and visualization, via a web browser on PCs, smartphones, web viewers, tablet computers, of data collected from: protection devices (DX ³ add-on modules with integrated measurement control unit, DPX ³ and DMX ³), EMDX ³ electricity meters and multi-function measuring units and CX ³ energy management system		1	4 149 03 ²	24 modules	
1	0 261 78	For 32 Modbus addresses or 32 pulse modules		1	4 149 07	36 modules	
1	0 261 79	For 255 Modbus addresses or 32 pulse modules		1	4 149 08		
				1	4 149 09		
				1	4 149 10		
				1	4 149 14		

1 : Enables upstream busbar connection

2 : For other lengths, please consult us



Current transformers (CT)
p. 98



EMDX³ electrical energy meters

└ rail mounting



0 046 70

0 046 74

4 120 65

Technical characteristics p. 99

Measure the electricity consumed by a single-phase or three-phase circuit downstream of the electricity distribution metering
Display electricity consumption in kWh, as well as other values such as current, active energy, reactive energy and power (depending on the catalogue number)

Conform to standards IEC 62053-21/23, IEC 62052-11 and IEC 61010-1
MID compliance ensures accuracy of the metering with a view to recharging for the electricity used

Pack	Cat.Nos		Single-phase meters
1	Non-MID 0 046 70	MID compliant 4 120 69	Direct connection 32 A - 1 module Pulse output 36 A - 2 modules Pulse output 45 A - 1 module Pulse output 63 A - 2 modules Pulse output 63 A - 2 modules RS 485 output
1	0 046 81		
1	0 046 72	0 046 78	
1	0 046 77	0 046 79	

	Cat.Nos		Three-phase meters
1	Non-MID 0 046 73 ¹	MID compliant 0 046 82	Direct connection 63 A - 4 modules Pulse output 63 A - 4 modules RS 485 output
1	0 046 80	0 046 83	
1	0 046 74	0 046 85	Connection with CT 5 A - 4 modules pulse output 5 A - 4 modules RS 485 and pulse output
1	0 046 84	0 046 86	

	Cat.Nos		Pulse concentrator
1	4 120 65		For collecting and transmitting measurements taken by 12 universal pulse electricity meters Also collects pulses from other meters (gas meters, water meters, etc.) RS485 output 4 modules

	Cat.Nos		Measurement concentrator
1	4 120 00		Full or partial electricity metering for 5 uses: heating, cooling, domestic hot water, and power sockets + "other" 5 inputs for current transformers (up to 2 current transformers per input) 2 pulse inputs for water and gas metering LCD screen and 6-button keypad RJ45 IP output Power supply 110/230 VAC - 50/60 Hz 6 modules

	Cat.Nos		Split core current transformer
1	4 120 02		90 A max. for the measurement concentrator Cat.No 4 120 00 Accepts : 10 x 1.5 mm ² cables, or 7 x 2.5 mm ² cables, or 2 x 6 mm ² cables, or 1 x 10 or 16 mm ² cable

	Cat.Nos		Solid core current transformer
1	4 120 04		60 A, for the measurement concentrator Cat.No 4 120 00

1: Double tariff metering

EMDX³ multi-function measuring units – rail mounting



4 120 51

Technical characteristics p. 100

Conform to standards:

- IEC 61557-12
- IEC 62053-22 class 0.5
- IEC 62053-23 class 1

Pack	Cat.Nos	EMDX ³ modular
1	4 120 51	Multi-function measuring unit For mounting on rail Width: 4 modules • LCD display • Measurement of currents, voltages, active, reactive and apparent power • 4 tariff metering: • THD voltages, currents and harmonic analysis up to order 25 (available on Modbus COM port) • Programmable alarms on all functions • RS 485 and pulse output

EMDX³ multi-function measuring units - for mounting on door or solid faceplate



EMDX³ Supervision system



4 120 52



4 120 53



4 120 55



4 120 57



0 261 78

Technical characteristics p. 100

Conform to standards:

- IEC 61557-12
- IEC 62053-22 class 0.5
- IEC 62053-23 class 1 for Cat.No 4 120 52 - Class 2 for Cat.No 4 120 53

Pack	Cat.Nos	EMDX ³ - Access
1	4 120 52	Multi-function measuring unit For mounting on door or solid faceplate Dimensions: 96 x 96 x 62 mm <ul style="list-style-type: none"> • LCD display • Measurement of currents, voltages, active, reactive and apparent power and power factor • Metering: <ul style="list-style-type: none"> - Active energy consumed or produced - Reactive energy consumed or produced - Operating time - Pulses • THD voltages, currents, and individual harmonic up to order 25⁽¹⁾ • RS 485 communication and Pulse output
1	4 120 53	EMDX³ - Premium Multi-function measuring units For mounting on door or solid faceplate Dimensions: 96 x 96 x 62 mm <ul style="list-style-type: none"> • LCD display • Measurement of currents, voltages, active, reactive and apparent power, internal temperature and power factor • Metering: <ul style="list-style-type: none"> - Active energy consumed or produced - Reactive energy consumed or produced - Operating time - THD • Programmable alarms on all functions Can take 4 EMDX ³ optional modules
1	4 120 56	EMDX³ modules Modules for EMDX³ - Premium multi-function measuring units <ul style="list-style-type: none"> 4 120 56 Memory + RS 485 communication module Active and reactive power storage, alarms and measured values 4 120 55 R485 communication module with Modbus link 4 120 59 Pulse ouput module for energy count 2 independent and insulated outputs 4 120 57 2 inputs / 2 outputs module Output can be assigned to alarms on different values 4 120 60 2 analog outputs module 0...20 mA and/or 4...20 mA 4 120 58 Temperature module 2 Pt100 inputs resistances 4 120 61 Harmonic analysis module Voltage, current, phase angle between current or voltage, crest factor... Up to order 50⁽¹⁾

1: Available on Modbus COM port

Current transformers (CT)
p. 98



Technical characteristics p. 101

Remote communication and supervision

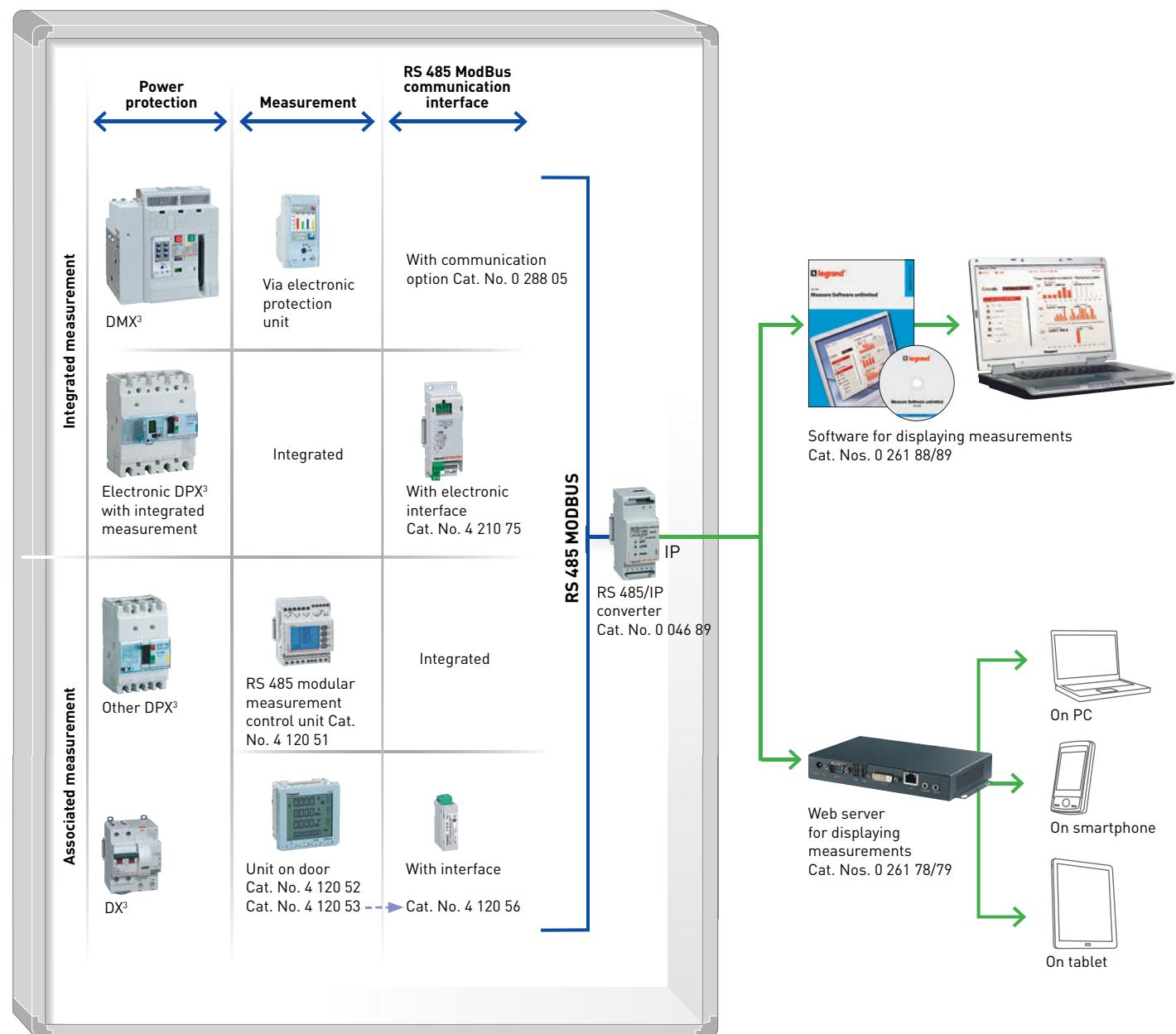
Pack	Cat.Nos	Energy management multi-support web servers
1	0 261 78	Allow remote configuration, test, control and visualization, via a web browser on PCs, smartphones, web viewers, tablet computers, of data collected from: protection devices (DX ³ add-on modules with integrated measurement control unit, DPX ³ and DMX ³), EMDX ³ electricity meters and multi-function measuring units and rail bus energy supervision system
1	0 261 79	For 32 Modbus addresses or 32 pulse modules For 255 Modbus addresses or 255 pulse modules
1	0 261 88	Legrand software dedicated to measurement For displaying the values collected from electricity meters or multi-function measuring units on a PC connected to the network
1	0 261 89	For 32 metering devices (supplied on CD) For 255 metering devices (supplied on CD)

Pack	Cat.Nos	Communication interface	Number of modules
1	0 046 89	RS485 / Ethernet For RS 485 / Ethernet conversion (for connection to an IP network)	3

Incorporate measurement via e.communication in protection devices

Legrand is bringing a new dimension to protection devices, with measurement via e.communication directly integrated in the new DMX³ and DPX³ electronic circuit breakers. Measurement can be associated with DPX³ and DX³ circuit breakers using EMDX³ meters and measurement control units.

MAIN LV DISTRIBUTION BOARD or secondary distribution board



Power supervision system

remote control, monitoring and measurement



0 261 37



0 261 36



0 261 45

With the Legrand Power supervision system, circuit breakers are integrated in a supervision system. You can therefore check the status of the circuit breakers, measure the electrical values and control the circuit breakers remotely via MODBUS protocol.

Pack	Cat.Nos	RS485 Modbus communication interfaces	Pack	Cat.Nos	Accessories
1	0 261 37	DPX electronic interface For reading information from an electronic DPX : phase 1, 2 and 3 currents, the currents in the neutral, the temperature (electronic card), the nominal current and the DPX settings Dimension: 2 modules Power supply: 24 V~ / = . RS 485 link (2-wire) Address, speed and coding can be modified with configurator kit	1	0 261 45	Configurator kit For configuring the DPX and DPX ³ I/O card and interface Kit with configurators 0 to 9 (10 configurators for each digit)
1	4 210 75	DPX³ electronic interface For connecting electronic DPX ³ (except DPX ³ 630 and 1600 S1 electronic releases) to an RS485 Modbus communication network All the information managed by the circuit breaker's electronic card will be shared on the Modbus network Dimension: 2 modules Power supply: 24 V~ / = . RS 485 link (2-wire) Address, speed and coding can be modified with configurator kit	1	0 466 23	Single phase stabilised power supply For supplying communication devices Primary 115-230 V 24 V=
1	0 288 05 ¹	RS 485 Modbus communication option for DMX³ Option making the DMX ³ capable of communicating for supervision	1	0 046 89	IP converter For RS 485/Ethernet conversion for connecting electricity meters and measurement control units to an IP network Supply voltage 90-260 V~ 80/60 Hz Dimension: 2 modules
1	0 035 67	Modular power supply 230 V~ - 27 V= - 0.6 A 2 modules			Remote Communication and supervision Energy management multi-support web servers Allow remote configuration, test, control and visualization, via a web browser on PCs, smartphones, web viewers, tablet computers, of data collected from: protection devices (DX ³ add-on modules with integrated measurement control unit, DPX ³ and DMX ³), EMDX ³ electricity meters and multi-function measuring units and CX ³ energy management system
1	0 261 36	DPX and DX³ signalling and control interface Signalling and control interface between the power supervision system and the thermal magnetic and electronic circuit breakers. Equipped with analogue / digital inputs and relay outputs. Can handle multiple circuit breakers. - 24 inputs for collecting information from the signalling auxiliaries on the DPX and DX ³ circuit breakers: auxiliary contact NO position (1 input) or NO+NC position (2 inputs), fault signal (1 input) - 6 outputs for: the remote control of the motor driven circuit breakers (2 outputs) and for tripping the circuit breakers for testing purposes (1 output) Dimension: 6 modules Power supply: 24 V~ / = . RS 485 link (2-wire) Address, speed and coding can be modified with configuration kit.	1	0 261 78	For 32 Modbus addresses or 32 pulse modules
			1	0 261 79	For 255 Modbus addresses or 32 pulse modules
			1	0 261 88	Legrand software dedicated to measurement For displaying the values collected from electricity meters or multi-function measuring units on a PC connected to the network
			1	0 261 89	For 32 metering devices (supplied on CD) For 255 metering devices (supplied on CD)

1: Factory fitted

Automation control units for supply invertors **p. 157**



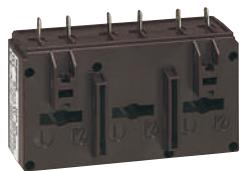
Electronic DPX³ 250 with integrated measurement unit **p. 132**



EMDX³ measurement control units **p. 94**



4 121 42



4 121 58



4 121 62



Technical characteristics [see e-catalogue](#)

Pack	Cat.Nos	Single-phase solid core current transformers	
		Used with ammeters, electricity meters or multi-function measuring units	
		Current at the secondary: 5 A	
		Can be fixed on plate, EN 60715 ↗ rail	
		Cat.No 4 121 01/02/03/04/05/06/07, or bars	
		Secondary connected by terminals or lugs	
		Precision class: 0,5 % (1 % for Cat.No 4 121 01/02)	
		For 16 x 12,5 mm bar or Ø21 mm cable	
1	4 121 01	Transformation ratio 50/5	Output (VA) 1,25
1	4 121 02	75/5	1,5
1	4 121 03	100/5	2
1	4 121 04	125/5	2,5
1	4 121 05	160/5	3
1	4 121 06	200/5	4
1	4 121 07	250/5	5
		For 32,5 x 10,5 and 25,5 x 15,5 mm bars or Ø27 mm cable	
1	4 121 12	400/5	10
1	4 121 14	600/5	12
		For 40,5 x 12,5 and 32,5 x 15,5 mm bars or Ø26 mm cable	
1	4 121 16	250/5	3
1	4 121 17	400/5	6
1	4 121 19	700/5	8
		For 40,5 x 10,5, 32,5 x 20,5 and 25,5 x 25,5 mm bars or Ø32 mm cable	
1	4 121 23	250/5	3
1	4 121 24	300/5	5
1	4 121 25	400/5	8
1	4 121 26	600/5	12
		For 50,5 x 12,5 and 40,5 x 20,5 mm bars or Ø40 mm cable	
1	4 121 31	700/5	8
1	4 121 32	800/5	8
1	4 121 33	1000/5	10
		For 65 x 32 mm bar	
1	4 121 36	600/5	8
1	4 121 38	800/5	12
1	4 121 39	1000/5	15
		For 84 x 34 mm bar	
1	4 121 42	1250/5	12
		For 127 x 38 mm bar	
1	4 121 46	1600/5	10
1	4 121 47	2000/5	15
1	4 121 49	3200/5	25
		For 127 x 54 mm bar	
1	4 121 50	1600/5	20
1	4 121 51	2000/5	25
1	4 121 52	2500/5	30
1	4 121 53	3200/5	30
1	4 121 54	4000/5	30

Pack	Cat.Nos	Three-phase solid core current transformers	
		Used with ammeters, electricity meters or multi-function measuring units	
		Current at the secondary: 5 A	
		For fixing directly on bars	
		Secondary connected by terminals or lugs	
		Precision class: 1 %	
1	4 121 57	For three 20,5 x 5,5 mm bars	
		Transformation ratio 250/5	Output (VA) 3
1	4 121 58	For three 30,5 x 5,5 mm bars	
		400/5	4

Pack	Cat.Nos	Single-phase split-core current transformers	
		Used with ammeters, electricity meters or multi-function measuring units	
		Current at the secondary: 5 A	
		For fixing directly on bars	
		Secondary connected by terminals or lugs	
		Precision class: 0,5 %	
1	4 121 62	For 50 x 80 mm bar	
		Transformation ratio 400/5 750/5	Output (VA) 1,5 3
1	4 121 63	For 80 x 120 mm bar	
		1000/5 1500/5	5 8
1	4 121 64	For 80 x 160 mm bar	
		2000/5 2500/5 3000/5 4000/5	15 15 20 20

Pack	Cat.Nos	Viking 3 disconnector block for measurement - 1 connection			
		Colour	Nominal cross section (mm²)	Capacity	Pitch (mm²)
25	0 371 92	Grey	4	0.25 to 4	0.25 to 4

EMDX³ electrical energy meters

— rail mounting

Technical characteristics

Single-phase meters Cat.Nos 0 046 70/72/77/78/79/81 and 4 120 69

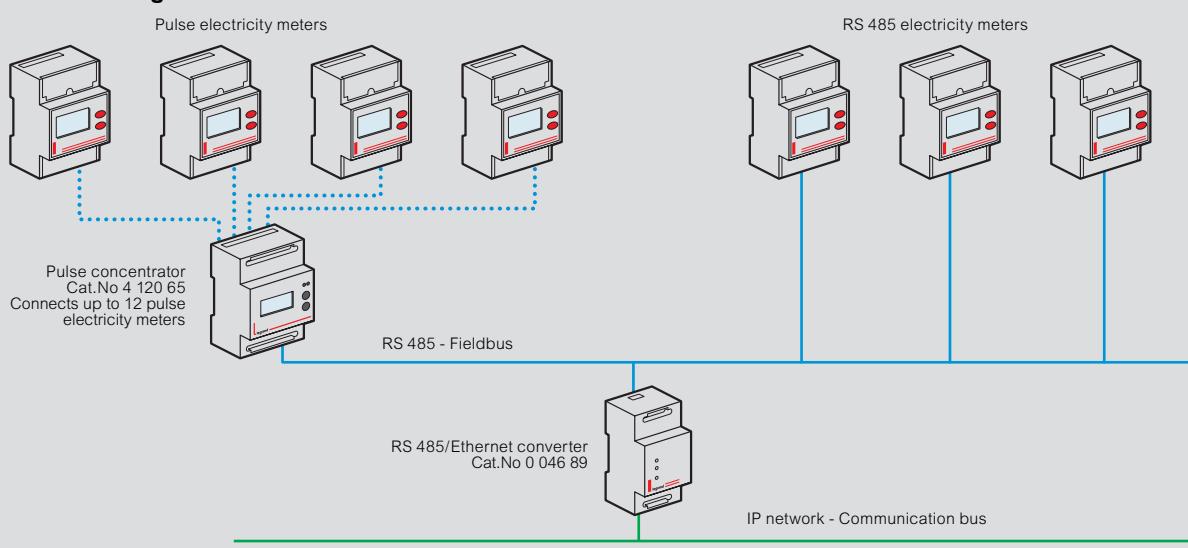
LCD display: 7 digits
 Resolution: 0.1 kWh
 Maximum indication: 99999.9 kWh
 Metrological LED: 1 Wh/pulse (Cat.No 0 046 70 : 0.5 Wh/pulse)
 Accuracy (EN 62053-21): class 1
 Reference voltage Un: 230 V-240 V
 Reference frequency: 50-60 Hz

Three-phase meters Cat.Nos 0 046 73/74/80/82/83/84/85/86

LCD display: 8 digits
 Resolution: 0.01 kWh⁽¹⁾
 Maximum indication: 99999.99 kWh⁽¹⁾
 Metrological LED: 0.1 Wh/pulse or 1 Wh/pulse
 Active energy accuracy (EN 62053-21): class 1
 Reactive energy accuracy (EN 62053-23): class 2
 Reference voltage Un:
 - Single-phase: 230-240 V
 - Three-phase: 230(400)-240(415) V
 Operating limit range (EN 62053-21, EN 62053-23):
 - Single-phase: 110 to 254 V
 - Three-phase: 110(190) to 254(440) V
 Pulse output: 1 pulse/10 Wh

Cat.Nos	0 046 70	4 120 69	0 046 81	0 046 72	0 046 77	0 046 78	0 046 79	0 046 73	0 046 80	0 046 82	0 046 83	0 046 74	0 046 84	0 046 85	0 046 86
Number of modules	1	1	2	2	2	2	2	4	4	4	4	4	4	4	4
Connection	Direct	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Via a current transformer											●	●	●	●
	Single-phase	●	●	●	●	●	●					●	●	●	●
	Three-phase							●	●	●	●	●	●	●	●
Max. current	32 A	45 A	36 A	63 A	63 A	63 A	63 A	63 A	63 A	63 A	63 A	5 A (CT)	5 A (CT)	5 A (CT)	5 A (CT)
Metering and measurement	Total active energy	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Total reactive energy								●	●	●	●	●	●	●
	Partial active energy (reset)		●	●	●	●	●	●	●	●	●	●	●	●	●
	Partial reactive energy (reset)								●	●	●	●	●	●	●
	Active power			●	●	●	●	●	●	●	●	●	●	●	●
	Reactive power							●	●	●	●	●	●	●	●
	Apparent power							●	●	●	●	●	●	●	●
	Current			●	●	●	●	●	●	●	●	●	●	●	●
	Voltage		●	●	●	●	●	●	●	●	●	●	●	●	●
	Frequency	●	●	●				●	●	●	●	●	●	●	●
	Power factor	●	●	●				●	●	●	●	●	●	●	●
	Time-of-use		●	●				●	●	●	●	●	●	●	●
	Average active power							●	●	●	●	●	●	●	●
	Max. average active power value							●	●	●	●	●	●	●	●
Communication	Dual tariff							●							
	Pulse output	●	●	●	●		●		●		●	●	●	●	●
	RS 485 interface					●		●		●		●	●	●	●
MID compliant		●				●		●		●		●		●	●
Operating conditions	Reference temperature							23 °C ± 2 °C							
	Operating temperature	-20 to +55 °C	-5 to +55 °C				-10 to +45 °C					-5 to +55 °C			
	Storage temperature	-40 to +70 °C	-25 to +70 °C				-25 to +70 °C					-25 to +70 °C			
	Consumption					≤ 8 VA			≤ 4 VA per phase			≤ 1 VA per phase			
	Heat dissipation					≤ 6.5 W			≤ 6 W			≤ 4 W			

Interfacing with IP communication network



1: For direct connection meters
 If connected via transformers, the resolution and maximum indication depend on the transformation ratios of these transformers

EMDX³ multi-function measuring units

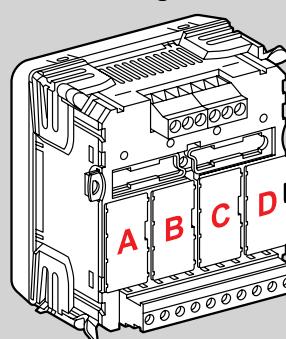
Technical characteristics

Cat.Nos		4 120 51	4 120 52	4 120 53
Connection	Current measurement terminals	Flexible cable Rigid cable	4mm ² 6 mm ²	4mm ² 6 mm ²
	Other terminals	Flexible cable Rigid cable	2.5 mm ² 4mm ²	2.5 mm ² 4mm ²
Protection index	Front cover		IP 54	IP 54
	Casing		IP 20	IP 20
Weight		250 g	285 g	285 g
Display	Type	Backlit LCD	Backlit LCD	Backlit LCD
	Update period	1 s	1 s	1 s
Measurements		1P+N, 3P, 3P+N	1P+N, 3P, 3P+N	1P+N, 3P, 3P+N
Voltage measurement	Direct	Phase/Phase	80 - 500 V	80 - 500 V
		Phase/Neutral!	50 - 290 V	50 - 400 V
	From PT	Primary	max. 1200 V	max. 1200 V
		Secondary	-	-
	Update period	0.2 s	0.2 s	0.2 s
Current measurement	Direct		-	-
	From a CT	Primary	max. 10 kA (X/1 A) or 50 kA (X/5 A)	max. 10 kA (X/1 A) or 50 kA (X/5 A)
		Secondary	1 A or 5 A	1 A or 5 A
	Minimum measurement		5 mA	5 mA
	Input consumption		≤ 1 VA	≤ 1 VA
	Display		0.005 A - 10 kA (x/1 A) o 0.005 A - 50 kA (x/5 A)	0.005 A - 10 kA (x/1 A) o 0.005 A - 50 kA (x/5 A)
	Permanent overload		1.2 ln	1.2 ln
	Intermittent overload		20 ln / 0.5 s	20 ln / 0.5 s
	Update period		0.2 s	0.2 s
	Max. CT x PT ratio		99990	99990
Power measurement	Total	0 - 9999 kW/ kVar/ kVA 0 - 9999 MW/ MVar/ MVA	0 - 9999 kW/ kVar/ kVA 0 - 9999 MW/ MVar/ MVA	0 - 9999 kW/ kVar/ kVA 0 - 9999 MW/ MVar/ MVA
	Update period	0.2 s	0.2 s	0.2 s
Frequency measurement	Measurement range	45/65 Hz - 360/440 Hz	45/65 Hz - 360/440 Hz	45/65 Hz
	Update period	0.2 s	0.2 s	0.2 s
Auxiliary power supply	50 / 60 Hz	80 - 265 V ± 10%	80 - 265 V ± 10%	80 - 265 V ± 10%
	d.c.	100 - 300 V ± 10%	100 - 300 V ± 10%	100 - 300 V ± 10%
	Consumption	a.c. d.c.	≤ 2.5 VA ≤ 2.5 W	≤ 2.5 VA ≤ 3.5 W
Operating temperature		from - 5° C to + 55° C	from - 5° C to + 55° C	from - 5° C to + 55° C
Storage temperature		from - 25° C to + 70° C	from - 25° C to + 70° C	from - 25° C to + 70° C

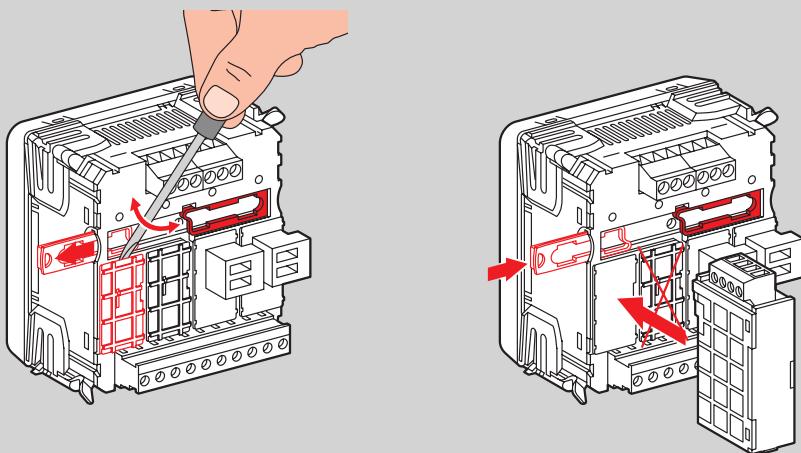
1: except for Cat.No 4 120 53 - 50 Hz only

Maximum number of modules and installing position for multi-function measuring unit Cat.No 4 120 53

Cat.Nos	Designation	Max. number	EMDX ³ -Premium 4 120 53
4 120 55	RS 485 communication module	1	A
4 120 56	Memory + RS 485 communication module	1	A
4 120 57	2 inputs / 2 outputs module	2	C, D
4 120 58	Temperature module	1	D
4 120 59	Pulse output module for energy count	2	A, B, C, D
4 120 60	2 analog outputs module	2	C, D
4 120 61	Harmonic analysis module	1	A + B

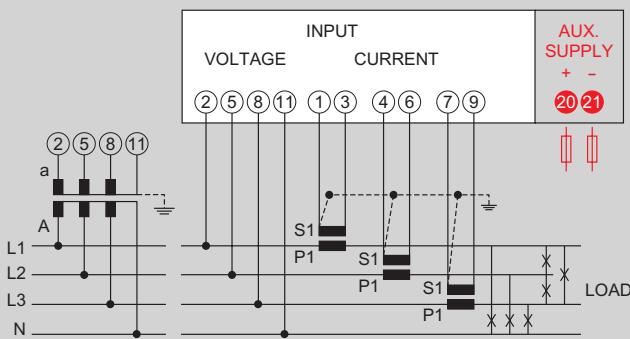


Fitting modules Cat.Nos 4 120 52/53

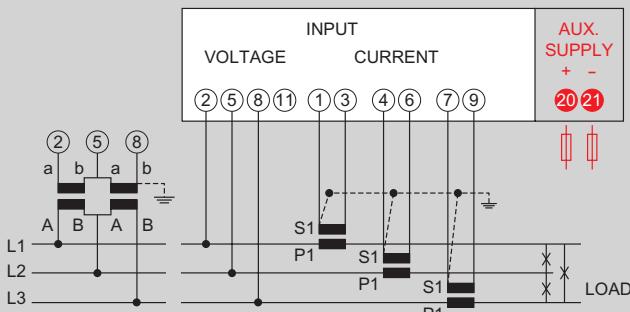


■ Connection solutions

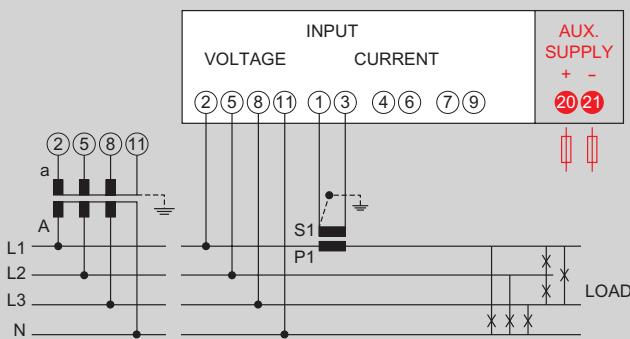
Unbalanced three-phase network (4-wire)



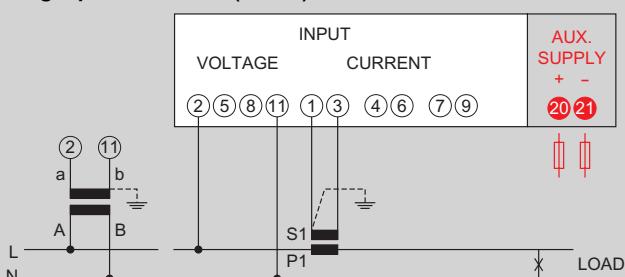
(3-wire)



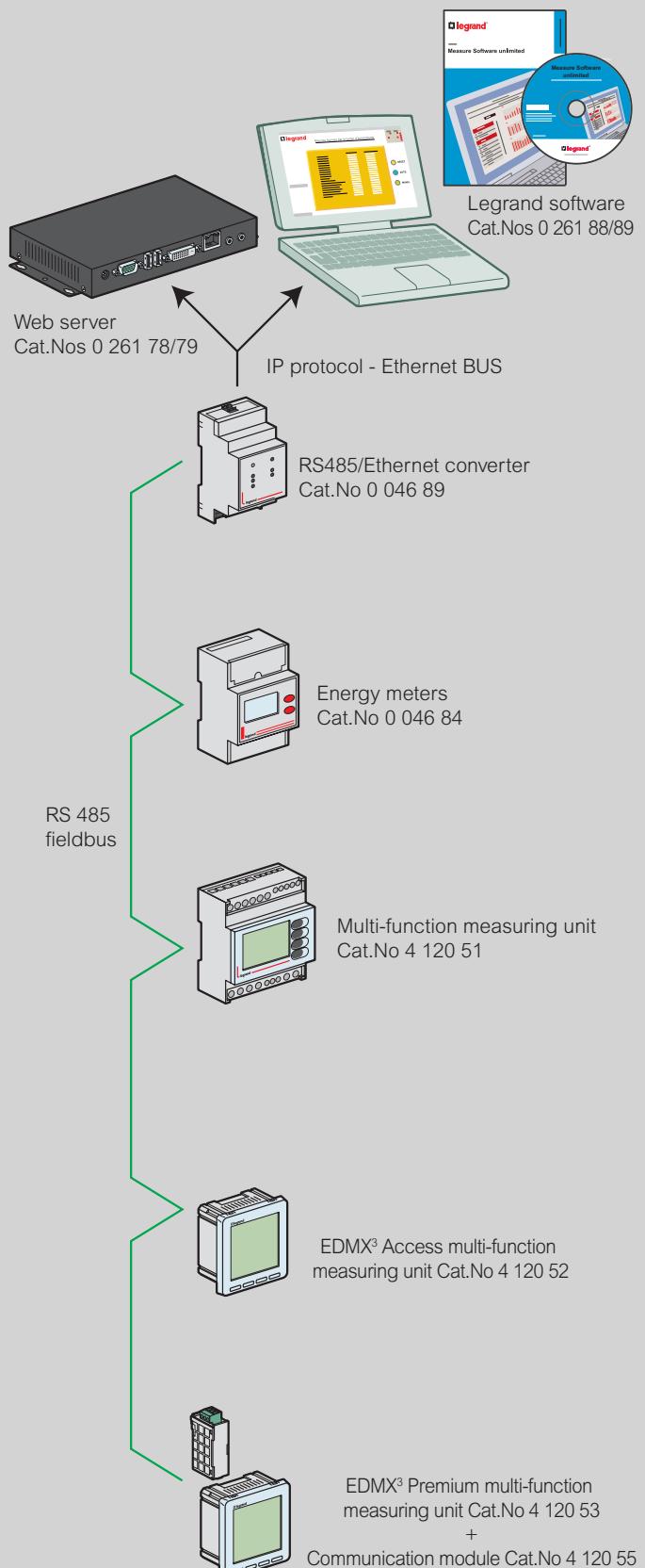
Balanced three-phase network (3-wire)



Single-phase network (2-wire)



■ Wiring example of communication network



Electrical energy metering on rail



Dimensions see e-catalogue

Pack	Cat.Nos	Analogue metering devices		Pack	Cat.Nos	Selective measurement switches	
		Ammeters Measure the intensity in Amperes (A) of the current circulating in an electrical circuit Direct connection AC or DC Scale: 0 - 30 A - supplied with dial Connected via a 0 - 5 A output current transformer (CT)	Number of modules 4			Ammeter cam switch For manual selection of the circuits to be measured	
1	0 046 02			1	0 046 50	For measuring the current in a circuit with one ammeter, connected via a current transformer (CT) 3-phase, 4-position cam switch	 Number of modules 3
1	0 046 00			1	0 046 52	For measuring the voltages in a circuit with one voltmeter 3-phase, 4-position cam switch	 Number of modules 3
2	0 046 10	Measuring dials for ammeter Cat.No 0 046 00 0-50 A		1	0 046 53	3-phase with neutral, 7-position cam switch	 Number of modules 3
2	0 046 13	0-100 A					
2	0 046 15	0-200 A					
2	0 046 16	0-250 A					
2	0 046 17	0-300 A					
2	0 046 18	0-400 A					
2	0 046 20	0-600 A					
2	0 046 21	0-800 A					
2	0 046 22	0-1000 A					
2	0 046 66	0-1250 A					
2	0 046 24	0-1500 A					
2	0 046 25	0-2000 A					
		Voltmeter Measure the AC or DC voltage in a circuit in volts (V) Scale: 0-500 V	Number of modules 4			Digital frequency meter For measuring the frequency of a 230 V \sim electrical circuit in hertz (Hz) Supply voltage 230 V \sim (connected to circuit to be measured) Green LED 3 digit display - 40-80 Hz display	 Number of modules 4
		Digital ammeter / voltmeter - 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 Voltage: 230 V \sim - 50/60 Hz Reading: I - 0 to 8000 A U - 0 to 500 V	Number of modules 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 230 V \sim - 50 Hz 24 V \sim - 50 Hz	 Number of modules 2
1	0 046 63			1	0 046 94		
				1	0 046 91		



Current transformers (CT)
p. 98



Electrical energy metering on door



0 146 00 + 0 146 16



0 146 61



0 495 55

Ammeters, voltmeters, totalising, can be mounted on XL³ 800 and XL³ 4000 curved doors

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 Round barrel Ø56 mm Square barrel 68 x 68 mm
1	0 146 00	Measuring dial for ammeters Supplied by set of 2 (1 for round barrel, 1 for square barrel)
1	0 146 01	0 146 10 0 - 50 A 0 146 13 0 - 100 A 0 146 15 0 - 200 A 0 146 16 0 - 250 A 0 146 17 0 - 300 A 0 146 18 0 - 400 A 0 146 20 0 - 600 A 0 146 21 0 - 800 A 0 146 22 0 - 1000 A 0 146 66 0 - 1250 A 0 146 24 0 - 1500 A 0 146 25 0 - 2000 A 0 146 26 0 - 2500 A 0 146 28 0 - 4000 A
		Voltmeters Measure the voltage in volts (V) AC ou DC Scale: 0 - 500 V Round barrel Ø56 mm Square barrel 68 x 68 mm
		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 0 495 52 24 V~ - 50 Hz 1 0 495 53 110 to 120 V~ - 50 Hz 1 0 495 54 110 to 120 V~ - 60 Hz 1 0 495 55 200 to 240 V~ - 50 Hz 1 0 495 58 48 V~ - 50 Hz 1 0 495 59 400 V~ - 50 Hz 1 0 495 60 12 to 36 V= 100 0 495 97 Frame 55 x 55 mm

Electrical energy metering

Metering devices on rail

Technical characteristics

Analogue ammeters

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

Analogue Voltmeters

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

Digital frequency meter

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

Analogue metering devices on door

Technical characteristics

Frequency: 50/60 Hz

Precision class: 1.5 %

Operating temperature: - 10 °C to + 40 °C

Storage temperature: - 20 °C to + 80 °C

Consumption:

- ammeter: 1.1 VA

- voltmeter: 3 VA

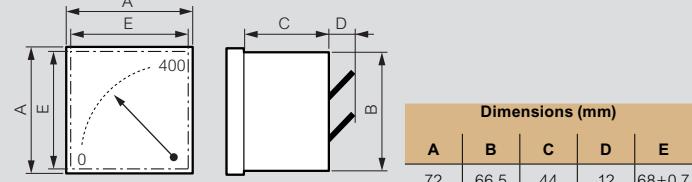
Connection capacity: 2 x 2.5 mm² with screws or

Conform to IEC 60051, VDE 0410, BS 89,

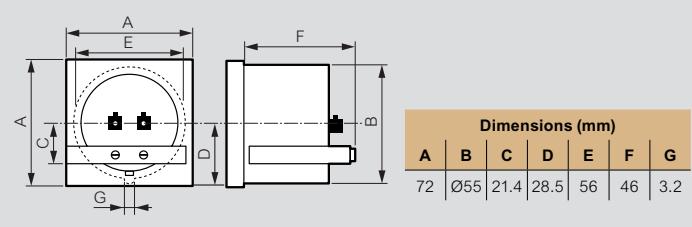
EN 60051-1, cenelec HD 223

Dimensions

Cat.Nos 0 146 01/61



Cat.Nos 0 146 00/60



Automatic capacitor banks Alpimatic

400 V network



M6040

Dimensions p. 107

IP 31 - IK 05 cabinet

Fully modular design for easy extension and maintenance

Alpimatic is made up of one or several cabinets according to the capacitor bank model and the nominal current

The electromechanical contactors are controlled by the Alptec automatic power controller with a simple commissioning procedure

Grey cabinet (RAL 7035) with black base Conforming to standards IEC 61921

Pack	Cat.Nos	S type three-phase 400 V - 50 Hz	Pack	Cat.Nos	H type three-phase 400 V - 50 Hz
		Max. harmonic pollution THDU ≤ 3%, THDI ≤ 10%			Max. harmonic pollution TDHU ≤ 4%, TDHI ≤ 15%
		Nominal power (kVAr)			Nominal power (kVAr)
1	M1040	10	1	MH1040	10
1	M12.540	12.5	1	MH12.540	12.5
1	M1540	15	1	MH1540	15
1	M2040	20	1	MH2040	20
1	M2540	25	1	MH2540	25
1	M3040	30	1	MH3040	30
1	M3540	35	1	MH3540	35
1	M4040	40	1	MH4040	40
1	M47.540	47.5	1	MH47.540	47.5
1	M5040	50	1	MH5040	50
1	M52.540	52.5	1	MH52.540	52.5
1	M6040	60	1	MH6040	60
1	M67.540	67.5	1	MH67.540	67.5
1	M7540-F	75	1	MH7540-F	75
1	M7540	75	1	MH7540	75
1	M87.540-F	87.5	1	MH87.540-F	87.5
1	M87.540	87.5	1	MH87.540	87.5
1	M10040-F	100	1	MH10040-F	100
1	M10040	100	1	MH10040	100
1	M112.540	112.5	1	MH112.540	112.5
1	M12540	125	1	MH12540	125
1	M15040	150	1	MH15040	150
1	M17540	175	1	MH17540	175
1	M20040	200	1	MH20040	200
1	M22540	225	1	MH22540	225
1	M25040	250	1	MH25040	250
1	M27540	275	1	MH27540	275
1	M30040	300	1	MH30040	300
1	M35040	350	1	MH35040	350
1	M40040	400	1	MH40040	400
1	M45040	450	1	MH45040	450
1	M50040	500	1	MH50040	500
1	M55040	550	1	MH55040	550
1	M60040	600	1	MH60040	600
1	M67540	675	1	MH67540	675
1	M75040	750	1	MH75040	750
1	M82540	825	1	MH82540	825
1	M90040	900	1	MH90040	900
		Steps (kVAr)			Steps (kVAr)
		2x2.5+5			2x2.5+5
		2.5+2x5			2.5+2x5
		2.5+5+7.5			2.5+5+7.5
		2.5+5+12.5			2.5+5+12.5
		5+10+10			5+10+10
		5+10+15			5+10+15
		5+10+20			5+10+20
		5+10+25			5+10+25
		7.5+15+25			7.5+15+25
		10+15+25			10+15+25
		7.5+15+22.5			7.5+15+22.5
		3x25			3x25
		7.5+15+22.5+30			7.5+15+22.5+30
		12.5+25+50			12.5+25+50
		12.5+3x25			12.5+3x25
		2x25+50			2x25+50
		12.5+2x25+37.5			12.5+2x25+37.5
		12.5+2x25+50			12.5+2x25+50
		25+2x50			25+2x50
		25+50+75			25+50+75
		2x25+50+75			2x25+50+75
		50+2x75			50+2x75
		25+50+2x75			25+50+2x75
		2x50+2x75			2x50+2x75
		25+2x50+2x75			25+2x50+2x75
		25+50+3x75			25+50+3x75
		50+4x75			50+4x75
		2x50+4x75			2x50+4x75
		6x75			6x75
		50+6x75			50+6x75
		2x50+6x75			2x50+6x75
		8x75			8x75
		9x75			9x75
		10x75			10x75
		11x75			11x75
		12x75			12x75



Other powers, voltages, frequencies on request
Please, consult us

Automatic capacitor banks Alpimatic

400 V network (continued)



MS15040.189



MS.R28040.189



Dimensions **p. 107**

IP 31 - IK 05 cabinet

Fully modular design for easy extension and maintenance

Alpimatic is made up of one or several cabinets according to the capacitor bank model and the nominal current
The electromechanical contactors are controlled by the Alptec power controller with a simple commissioning procedure

Electrical parts protected against direct contact: IP 2 X (door open)

Grey cabinet (RAL 7035) with black base Conforming to standards IEC 61921

Pack	Cat.Nos
1	MS7540.189
1	MS10040.189
1	MS12540.189
1	MS15040.189
1	MS20040.189
1	MS22540.189
1	MS25040.189
1	MS27540.189
1	MS30040.189
1	MS35040.189
1	MS37540.189
1	MS45040.189
1	MS52540.189
1	MS60040.189
1	MS67540.189
1	MS75040.189

**SAH type three-phase
400 V - 50 Hz**

Max. harmonic pollution THDU ≤ 6%,
THDI ≤ 30%
189 Hz (p=7%)

Nominal power (kVAr)	Steps (kVAr)
75	25+50
100	2x25+50
125	25+2x50
150	3x50
200	50+2x75
225	3x75
250	2x50+2x75
275	50+3x75
300	4x75
350	50+4x75
375	5x75
450	6x75
525	7x75
600	8x75
675	9x75
750	10x75

Pack	Cat.Nos
1	MS.R12040.189
1	MS.R16040.189
1	MS.R20040.189
1	MS.R24040.189
1	MS.R28040.189
1	MS.R32040.189
1	MS.R36040.189
1	MS.R40040.189
1	MS.R44040.189
1	MS.R48040.189
1	MS.R52040.189
1	MS.R56040.189
1	MS.R60040.189
1	MS.R64040.189
1	MS.R72040.189
1	MS.R80040.189

**SAH reinforced type three-phase
400 V - 50 Hz**

Max. harmonic pollution THDU ≤ 8%,
THDI ≤ 40%
189 Hz (p=7%)

Nominal power (kVAr)	Steps (kVAr)
120	3x40
160	2x40+80
200	40+2x80
240	2x40+2x80
280	40+3x80
320	4x80
360	40+4x80
400	5x80
440	40+5x80
480	6x80
520	40+6x80
560	7x80
600	40+7x80
640	8x80
720	9x80
800	10x80



Other powers, voltages, frequencies on request
Please, consult us



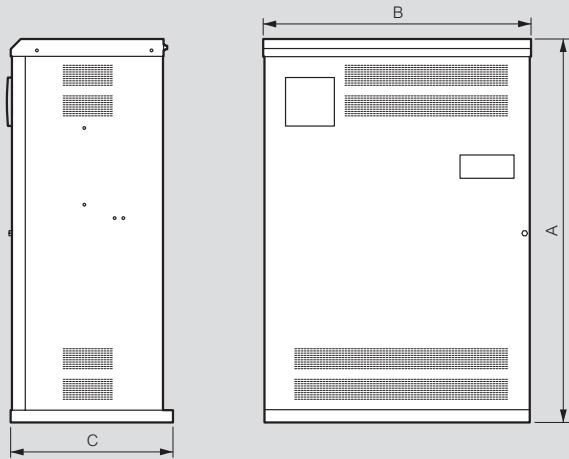
ALPES TECHNOLOGIES

Automatic capacitor banks Alpimatic

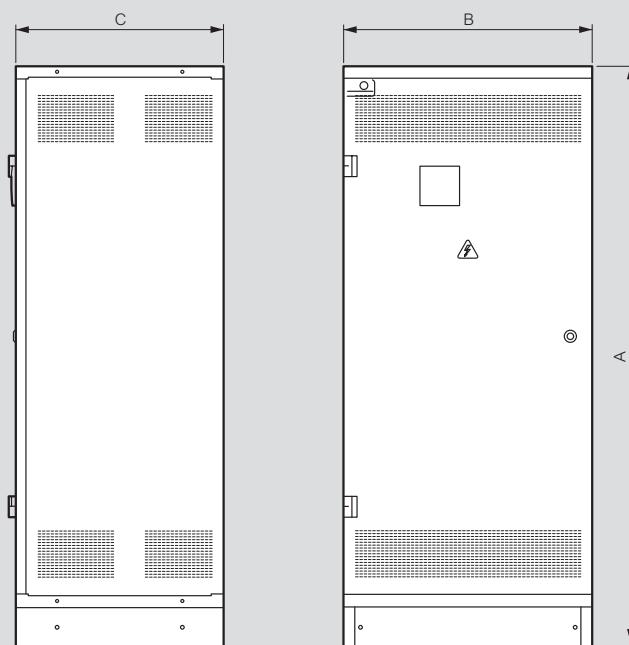
technical characteristics

Dimensions

Enclosure type : PL1 (natural ventilation)



Enclosure type : PL2 (natural ventilation)



Dimensions

S type - Three-phase

Cat.No	Dimensions (mm)			Weight (kg)	Enclosure
	A	B	C		
M1040	770	260	320	23	PL1
M12.540	770	260	320	24	PL1
M1540	770	260	320	25	PL1
M2040	770	260	320	25	PL1
M2540	770	260	320	25	PL1
M3040	770	260	320	28	PL1
M3540	770	260	320	28	PL1
M4040	770	260	320	29	PL1
M47.540	770	260	320	29	PL1
M5040	770	260	320	30	PL1
M6040	770	260	320	30	PL1
M67.540	770	520	320	40	PL1
M7540-F	770	260	320	32	PL1
M7540	770	520	320	42	PL1
M87.540-F	770	520	320	44	PL1
M87.540	770	520	320	44	PL1
M10040-F	770	520	320	44	PL1
M10040	770	520	320	45	PL1
M112.540	770	520	320	45	PL1
M12540	770	520	320	50	PL1
M15040	770	520	320	53	PL1
M17540	1400	600	500	110	PL2
M20040	1400	600	500	115	PL2
M22540	1400	600	500	120	PL2
M25040	1400	600	500	125	PL2
M27540	1400	600	500	130	PL2
M30040	1400	600	500	135	PL2
M35040	1900	600	500	165	PL2
M40040	1900	600	500	175	PL2
M45040	1900	600	500	185	PL2
M50040	1400	1200	500	230	PL2
M55040	1400	1200	500	240	PL2
M60040	1400	1200	500	250	PL2
M67540	1900	1200	500	325	PL2
M75040	1900	1200	500	340	PL2
M82540	1900	1200	500	355	PL2
M90040	1900	1200	500	370	PL2

H type - Three-phase

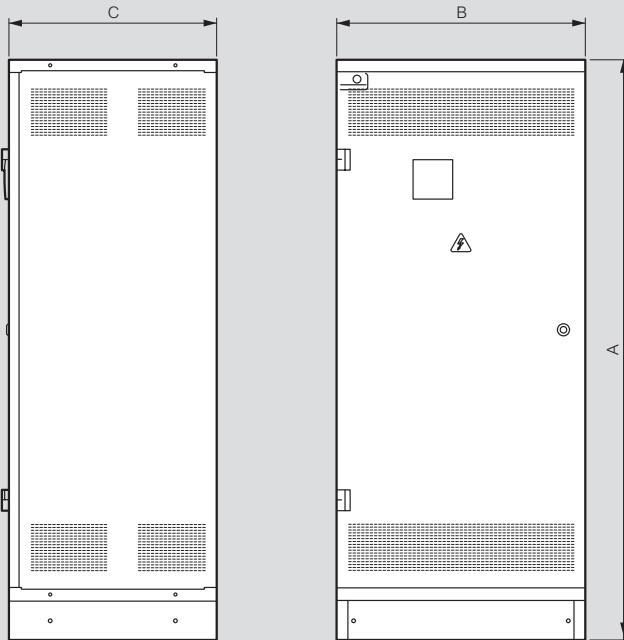
Cat.No	Dimensions (mm)			Weight (kg)	Enclosure
	A	B	C		
MH1040	770	260	320	23	PL1
M12.540	770	260	320	24	PL1
MH1540	770	260	320	25	PL1
MH2040	770	260	320	25	PL1
MH2540	770	260	320	25	PL1
MH3040	770	260	320	28	PL1
MH3540	770	260	320	28	PL1
MH4040	770	260	320	29	PL1
MH47.540	770	260	320	29	PL1
MH5040	770	260	320	30	PL1
MH6040	770	260	320	30	PL1
MH67.540	770	520	320	40	PL1
MH7540-F	770	260	320	32	PL1
MH7540	770	520	320	42	PL1
MH87.540-F	770	520	320	44	PL1
MH87.540	770	520	320	44	PL1
MH10040-F	770	520	320	44	PL1
MH10040	770	520	320	45	PL1
MH112.540	770	520	320	45	PL1
MH12540	770	520	320	50	PL1
MH15040	770	520	320	53	PL1
MH17540	1400	600	500	110	PL2
MH20040	1400	600	500	115	PL2
MH22540	1400	600	500	120	PL2
MH25040	1400	600	500	125	PL2
MH27540	1400	600	500	130	PL2
MH30040	1400	600	500	135	PL2
MH35040	1900	600	500	165	PL2
MH40040	1900	600	500	175	PL2
MH45040	1900	600	500	185	PL2
MH50040	1900	1200	500	230	PL2
MH55040	1900	1200	500	240	PL2
MH60040	1900	1200	500	250	PL2
MH67540	1900	1200	500	325	PL2
MH75040	1900	1200	500	340	PL2
MH82540	1900	1200	500	355	PL2
MH90040	1900	1200	500	370	PL2

Automatic capacitor banks Alpimatic

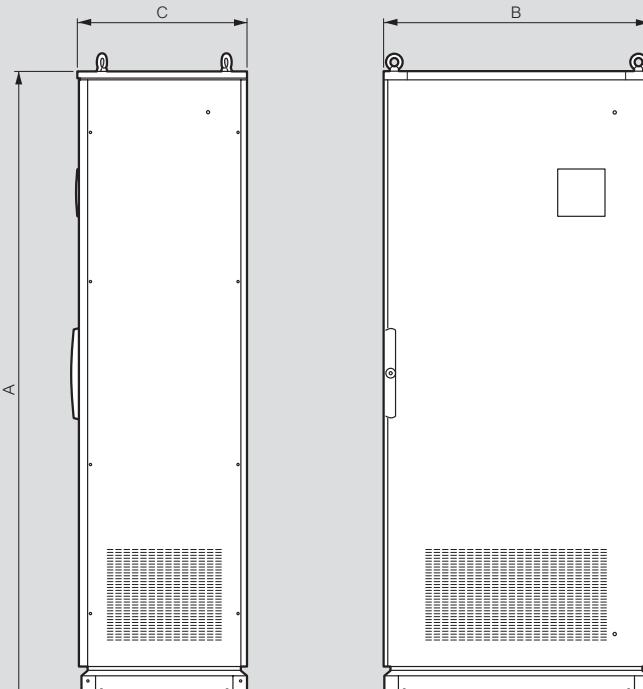
technical characteristics (continued)

Dimensions

Enclosure type : PL2 (natural ventilation)



Enclosure type : AL (forced ventilation)



Dimensions

SAH type - Three-phase 189 Hz ($p = 7\%$)

Cat.No	Dimensions (mm)			Weight (kg)	Enclosure
	A	B	C		
MS7540.189	1400	600	500	124	PL2
MS10040.189	1400	600	500	158	PL2
MS12540.189	1400	600	500	164	PL2
MS15040.189	1400	600	500	170	PL2
MS20040.189	2100	800	500	266	AL
MS22540.189	2100	800	500	275	AL
MS25040.189	2100	800	500	307	AL
MS27540.189	2100	800	500	316	AL
MS30040.189	2100	800	500	325	AL
MS35040.189	2100	800	500	366	AL
MS37540.189	2100	800	500	375	AL
MS45040.189	2100	1600	500	525	AL
MS52540.189	2100	1600	500	575	AL
MS60040.189	2100	1600	500	625	AL
MS67540.189	2100	1600	500	627	AL
MS75040.189	2100	1600	500	725	AL

SAH reinforced type - Three-phase 189 Hz ($p = 7\%$)

Cat.No	Dimensions (mm)			Weight (kg)	Enclosure
	A	B	C		
MS.R12040.189	1400	600	500	191	PL2
MS.R16040.189	2100	800	500	299	AL
MS.R20040.189	2100	800	500	328	AL
MS.R24040.189	2100	800	500	359	AL
MS.R28040.189	2100	800	500	407	AL
MS.R32040.189	2100	800	500	437	AL
MS.R36040.189	2100	800	500	485	AL
MS.R40040.189	2100	800	500	515	AL
MS.R44040.189	2100	1600	500	663	AL
MS.R48040.189	2100	1600	500	693	AL
MS.R52040.189	2100	1600	500	741	AL
MS.R56040.189	2100	1600	500	771	AL
MS.R60040.189	2100	1600	500	811	AL
MS.R64040.189	2100	1600	500	849	AL
MS.R72040.189	2100	1600	500	927	AL
MS.R80040.189	2100	1600	500	1005	AL

Fixed capacitor banks Alpibloc

400 V network



BH2040



BH6040

Alpibloc is an Alpivar³ capacitor with built-in circuit breaker Assembly fitted and wired in an IP 31 - IK 05 box or cabinet Equipment supplied ready for connection, for fixed compensation of low and medium power electrical devices For certain applications (remote control, etc.) the circuit breaker can be replaced by a contactor and HRC fuses (on request) Conforming to standard IEC 61921

Pack	Cat.Nos	S type three-phase 400 V - 50 Hz	
1	B1040	Max. harmonic pollution THDU ≤ 3%, THDI ≤ 10%	
1	B1540	Nominal power (kVAr)	Circuit breaker Isc (kA)
1	B2040	10	50
1	B2540	15	50
1	B3040	20	50
1	B4040	25	50
1	B5040	30	50
1	B6040	40	25
1	B7540	50	25
1	B9040	60	25
1	B10040	75	25
1	B12540	90	36
1	B15040	100	36
1	B17540	125	36
1		150	36
1		175	36

H type three-phase 400 V - 50 Hz

520 V max.

Max. harmonic pollution THDU ≤ 4%, THDI ≤ 15%

	Cat.Nos	Nominal power (kVAr)	Circuit breaker Isc (kA)
1	BH1040	10	50
1	BH1540	15	50
1	BH2040	20	50
1	BH2540	25	50
1	BH3040	30	50
1	BH4040	40	25
1	BH5040	50	25
1	BH6040	60	25
1	BH7540	75	25
1	BH9040	90	36
1	BH10040	100	36
1	BH12540	125	36
1	BH15040	150	36
1	BH17540	175	36

Fixing accessory

1 SUPP/ALPIBLOC

Wall fixing support for S and H type Alpibloc capacitor banks

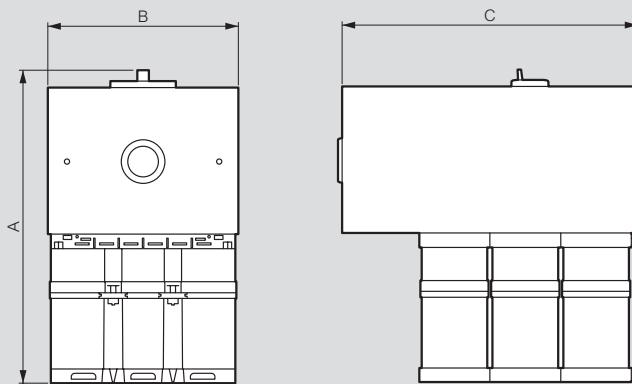
Fixed capacitor banks Alpibloc

Dimensions

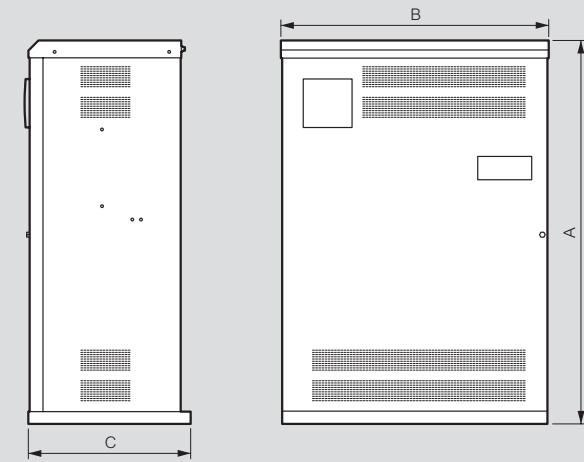
S and H type - Three-phase

Cat.Nos	Dimensions (mm)			Weight (kg)	Enclosure type
	A	B	C		
B1040 / BH1040	380	190	230	8	BL
B1540 / BH1540	380	190	230	8	BL
B2040 / BH2040	380	190	230	8	BL
B2540 / BH2540	380	190	230	8	BL
B3040 / BH3040	380	190	230	12	BL
B4040 / BH4040	380	365	230	20	BL
B5040 / BH5040	380	365	230	20	BL
B6040 / BH6040	380	365	230	24	BL
B7540 / BH7540	380	365	230	24	BL
B9040 / BH9040	380	540	230	37	BL
B10040 / BH10040	380	540	230	37	BL
B12540 / BH12540	380	540	230	40	BL
B15040 / BH15040	770	520	320	53	PL-1F
B17540 / BH17540	770	520	320	56	PL-1F

Enclosure type : BL

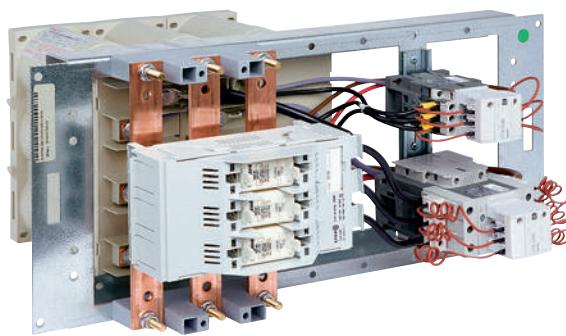


Enclosure type : PL-1F (natural ventilation)



Racks Alpimatic

400 V network



P255040

Factory connected units for integration in universal cabinets for automatic compensation systems

S and H versions:

- 1 Alpivar³ capacitor
- 1 contactor suitable for the capacitive currents
- 1 set of 3 HRC fuses
- 1 set of modular copper busbars with junction bars for connecting several racks
- 1 steel frame on which the components are assembled and wired

Pack	Cat.Nos	S type three-phase 400 V - 50 Hz
1	P12.540	Max. harmonic pollution THDU ≤ 3%, THDI ≤ 10% Nominal power (kVAr) 12.5
1	P12.512.540	12.5+12.5
1	P2540	25
1	P252540	25+25
1	P255040	25+50
1	P5040	50
1	P7540	75

Pack	Cat.Nos	H type three-phase 400 V - 50 Hz
1	PH12.540	Max. harmonic pollution THDU ≤ 3%, THDI ≤ 15% Nominal power (kVAr) 12.5
1	PH12.512.540	12.5+12.5
1	PH2540	25
1	PH252540	25+25
1	PH255040	25+50
1	PH5040	50
1	PH7540	75

Racks Alpimatic

Technical specifications

Loss factor

S and H type Alpimatic racks have a loss factor of 2 W/kVAr, while that of SAH type racks is 6 W/kVAr

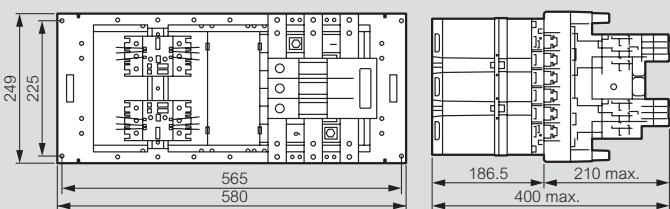
Standards

Racks for integration in automatic compositions, according to IEC 61921 standard

Temperature class

- Operation: -10 to +45°C (average over 24 hours: 40°C)
- Storage: -30 to +60°C

Dimensions



S type

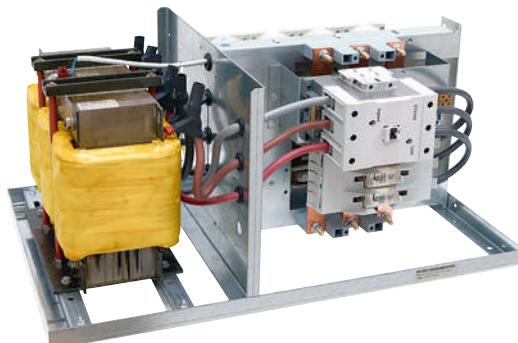
	Weight (kg)
P12.540	14
P12.512.540	17
P2540	14
P252540	17
P255040	20
P5040	17
P7540	20

H type

	Weight (kg)
PH12.540	14
PH12.512.540	17
PH2540	14
PH252540	17
PH255040	20
PH5040	17
PH7540	20

Racks Alpimatic with detuned reactors

400 V network



R7.R8040.189

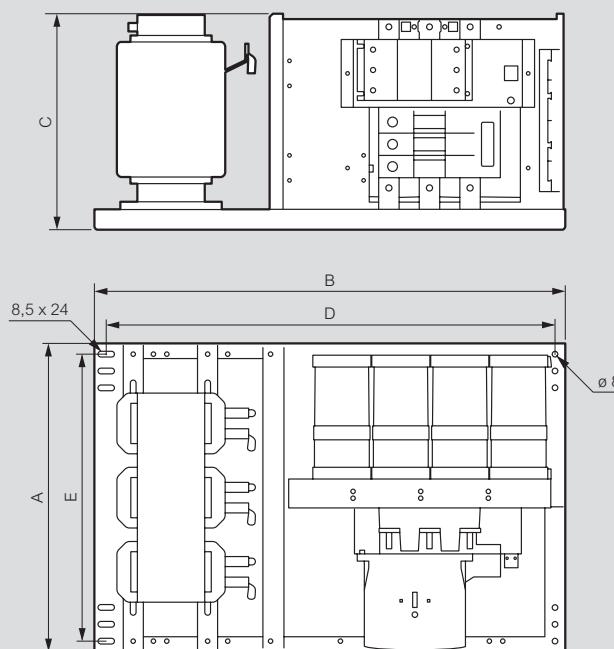
Factory connected units for integration in universal cabinets for automatic compensation systems
SAH versions (detuned reactors):

- 1 Alpivar³ capacitor
- 1 contactor suitable for the capacitive currents
- 1 detuned reactor with thermal protection
- 1 set of 3 HRC fuses
- 1 set of modular copper busbars with junction bars for connecting several racks
- 1 steel frame on which the components are assembled and wired

Pack	Cat.Nos	SAH type three-phase 400 V - 50 Hz
1	R5.12.540.189	Max. harmonic pollution THDU ≤ 6%, THDI ≤ 30% 189 Hz (p=7%) Nominal power (kVAr)
1	R5.2540.189	12.5
1	R5.5040.189	25
1	R7.12.540.189	50
1	R7.2540.189	12.5
1	R7.5040.189	25
1	R7.7540.189	50
		75
		SAH reinforced type three-phase 400 V - 50 Hz
		Max. harmonic pollution THDU ≤ 8%, THDI ≤ 40% 189 Hz (p=7%) Nominal power (kVAr)
1	R5.R2040.189	20
1	R5.R4040.189	40
1	R7.R2040.189	20
1	R7.R4040.189	40
1	R7.R8040.189	80

Racks Alpimatic with detuned reactors

Dimensions



SAH type	Dimensions (mm)					
	A	B	C	D	E	Poids (kg)
R5.12.540.189	458	500	325	468	425	34
R5.2540.189	458	500	325	468	425	34
R5.5040.189	458	500	325	468	425	40
R7.12.540.189	458	700	325	665	425	35
R7.2540.189	458	700	325	665	425	35
R7.5040.189	458	700	325	665	425	41
R7.7540.189	458	700	325	665	425	50

SAH reinforced type	Dimensions (mm)					
	A	B	C	D	E	Poids (kg)
R5.R2040.189	458	500	325	468	425	45
R5.R4040.189	458	500	325	468	425	47
R7.R2040.189	458	700	325	665	425	46
R7.R4040.189	458	700	325	665	425	48
R7.R8040.189	458	700	325	665	425	78

Capacitors Alpivar³

400 V network



V2540CB

Double or class II insulation. Totally dry
Self-extinguishing polyurethane resin casing. Internal protection for each winding using:
- A self-healing metallised polypropylene film
- An electric fuse
- A disconnection device in case of overpressure
Colour: Casing RAL 7032 Cover RAL 7035
Conforming to standard IEC 60831-1 and 2

Pack	Cat.Nos
1	V2.540CB
1	V540CB
1	V7.540CB
1	V1040CB
1	V12.540CB
1	V1540CB
1	V2040CB
1	V2540CB
1	V3040CB
1	V3540CB
1	V4040CB
1	V5040CB
1	V6040CB
1	V7540CB
1	V8040CB
1	V9040CB
1	V10040CB
1	V12540CB

S type three-phase 400 V - 50 Hz

Harmonic pollution THDU ≤ 3%,
THDI ≤ 10%

Nominal power (kVAr)

2.5

5

7.5

10

12.5

15

20

25

30

35

40

50

60

75

80

90

100

125

H type three-phase 400 V - 50 Hz

Harmonic pollution THDU ≤ 4%,
THDI ≤ 15%

Nominal power (kVAr)

2.5

5

7.5

10

12.5

15

20

25

30

35

40

50

60

75

80

90

100

125

Capacitors Alpivar³

Technical specifications

Discharge resistors

Fitted inside (except by special request), these discharge the unit in accordance with current standards (discharge time, 3 minutes)

Loss factor

Alpivar³ capacitors have a loss factor of less than 0.1×10^{-3} . This value leads to a power consumption of less than 0.3 W per kVar, including the discharge resistors.

Capacitance

Tolerance on the capacitance value: ± 5%

Our manufacturing process, which avoids any inclusion of air in the coils, ensures excellent stability of the capacitance throughout the service life of the Alpivar³ capacitor.

Max. permissible overvoltage: 1.18 Un 12/24h

Max. permissible current:

- S type: up to 1.5 In
- H type: up to 2 In

Insulation class

- Withstand at 50 Hz for 1 min: 6 kV
- 1.2/50 µs impulse withstand: 25 kV

Standards

IEC 60 831-1 and 2

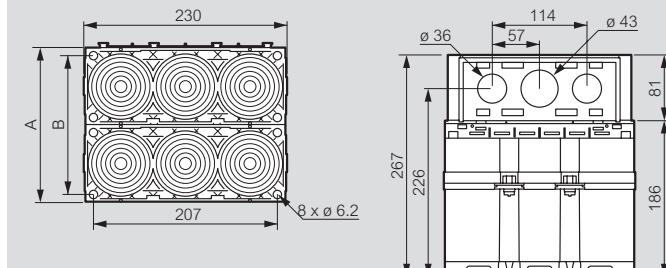
Temperature class

Alpivar³ capacitors are designed for a standard temperature class -25/+55°C

- Maximum temperature: 55°C
- Average over 24 hours: 45°C
- Annual average: 35°C
- Other temperature classes on request

Dimensions

S type / H type - Three-phase



S type	H type	Number of modules	Dimensions (mm)		Weight (kg)
			A	B	
V2.540CB	VH2.540CB	1	93	70	3.5
V540CB	VH540CB	1	93	70	3.5
V7.540CB	VH7.540CB	1	93	70	3.5
V1040CB	VH1040CB	1	93	70	3.5
V12.540CB	VH12.540CB	1	93	70	3.5
V1540CB	VH1540CB	1	93	70	3.5
V2040CB	VH2040CB	1	93	70	3.5
V2540CB	VH2540CB	1	93	70	3.5
V3040CB	VH3040CB	2	180	157	7
V3540CB	VH3540CB	2	180	157	7
V4040CB	VH4040CB	2	180	157	7
V5040CB	VH5040CB	2	180	157	7
V6040CB	VH6040CB	3	267	244	10.5
V7540CB	VH7540CB	3	267	244	10.5
V8040CB	VH8040CB	4	354	331	14
V9040CB	VH9040CB	4	354	331	14
V10040CB	VH10040CB	4	354	331	14
V12540CB	VH12540CB	5	441	418	17.5

Alpican capacitors



Compact design in cylindrical aluminium can
 Biodegradable soft resin impregnant
 Dual safety with self healing and overpressure disconnector
 Conforming to standard IEC 60831-1 and 2

Pack	Cat.Nos	Three-phase 400 V - 50 Hz	
		Nominal power (kVAr)	
		50 Hz	60 Hz
1	4 151 60	2.5	3
1	4 151 61	5	6
1	4 151 62	6.3	7.6
1	4 151 63	7.5	9
1	4 151 64	10	12
1	4 151 65	12.5	15
1	4 151 66	15	18
1	4 151 67	20	24
1	4 151 68	25	30

Pack	Cat.Nos	Three-phase 415 V - 50 Hz	
		Nominal power (kVAr)	
		50 Hz	60 Hz
1	4 151 69	2.5	3
1	4 151 70	5	6
1	4 151 71	6.3	7.6
1	4 151 72	7.5	9
1	4 151 73	10	12
1	4 151 74	12.5	15
1	4 151 75	15	18
1	4 151 76	20	24
1	4 151 77	25	30

Pack	Cat.Nos	Three-phase 440 V - 50 Hz	
		Nominal power (kVAr)	
		50 Hz	60 Hz
1	4 151 78	2.5	3
1	4 151 79	5	6
1	4 151 80	6.3	7.6
1	4 151 81	7.5	9
1	4 151 82	10	12
1	4 151 83	12.5	15
1	4 151 84	15	18
1	4 151 85	20	24
1	4 151 86	25	30
1	4 151 87	30	36

Pack	Cat.Nos	Three-phase 480 V - 50 Hz	
		Nominal power (kVAr)	
		50 Hz	60 Hz
1	4 151 88	5	6
1	4 151 89	10.4	12.5
1	4 151 90	12.5	15
1	4 151 91	15	18
1	4 151 92	20.8	25
1	4 151 93	25	30
1	4 151 94	30	36

Alpican capacitors

technical characteristics

Technical specifications

Discharge resistors:

Fitted inside, they discharge the unit in accordance with current standards (discharge time, 3 minutes)

Loss factor:

Alpican capacitors have a loss factor of less than 0.2×10^{-3} . This value leads to a power consumption of less than 0.45 W per kVAr, excluding the discharge resistors

Rated frequency:

50/60 Hz

Capacitance:

Tolerance on the capacitance value: - 5 % / 10 %

Max. permissible voltage:

1.1 Un up to 8 hours daily (according to IEC 60831-1 and 2)

Max. permissible current:

Up to 1.5 Ir including combined effects of harmonics (according to IEC 60831-1 and 2)

Inrush current:

up to 200 Ir

Insulation class:

3/15 kV

Standards:

Alpican capacitors comply with:

- International standard: IEC 60831-1 and 2

Temperature class:

Alpican capacitors are designed for a standard -25D temperature class

- Maximum temperature: 55 °C
- Average over 24 hours: 45 °C
- Annual average: 35 °C
- Lowest temperature class: - 25 °C

Cooling:

natural or forced

Humidity:

max. 95 %

Altitude:

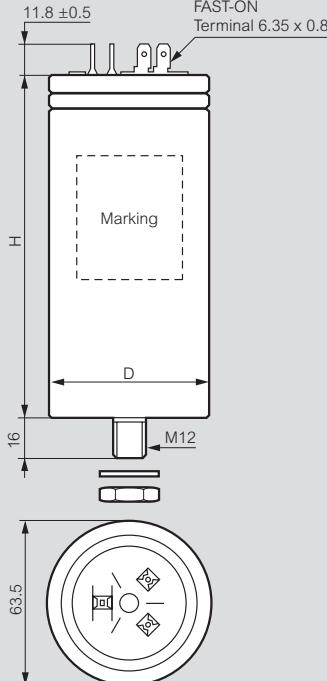
max. 4000 m above the sea level

Mounting position:

vertical

Dimensions

For capacitors from 2.5 to 5 kVAr - 400 V, 415 V and 440 V



Creepage distance:
• Ø63.5: 10.0 mm

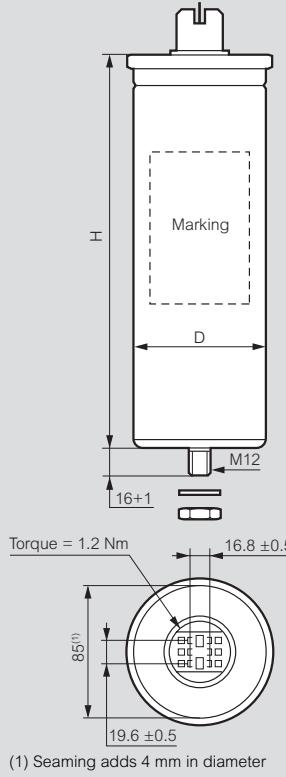
Clearance:
• Ø63.5: 16.5 mm

Mounting:
• Ø63.5:
M 12, torque 10 Nm
Tothead washer J 12.5 DIN 6797
Hex nut BM 12 DIN 439

Cat.No	Nominal power at 50 Hz (kVAr)	Dimensions (mm)			Weight (kg)
		D	H	max. A	
4 151 60	2.5	63.5	129	12	0.4
4 151 61	5	63.5	129	12	0.4
4 151 69	2.5	63.5	129	13	0.4
4 151 70	5	63.5	129	12	0.4
4 151 78	2.5	63.5	129	12	0.3
4 151 79	5	63.5	154	12	0.5

Dimensions (continued)

For capacitors from 6.3 to 30 kVAr - 400 V, 415 V, 440 V and full range of 480 V capacitors



(1) Seaming adds 4 mm in diameter

Creepage distance:

- Ø75 / Ø85: 9.6 mm

Clearance:

- Ø75 / Ø85: 12.7 mm

Mounting:

- Ø75 / Ø85:
M 12, torque 10 Nm
Tothead washer J 12.5 DIN 6797
Hex nut BM 12 DIN 439

Cat.No	Nominal power at 50 Hz (kVAr)	Dimensions (mm)			Weight (kg)
		D	H	max. A	
4 151 62	6.3	75	160	13	0.5
4 151 63	7.5	75	160	13	0.5
4 151 64	10	75	198	13	0.6
4 151 65	12.5	85	198	13	0.8
4 151 66	15	85	198	13	0.8
4 151 67	20	85	273	13	1.1
4 151 68	25	85	273	13	1.5
4 151 71	6.3	75	160	13	0.5
4 151 72	7.5	75	198	13	0.6
4 151 73	10	75	198	13	0.6
4 151 74	12.5	85	198	13	0.8
4 151 75	15	85	273	13	1.2
4 151 76	20	85	273	13	1.2
4 151 77	25	85	348	13	1.5
4 151 80	6.3	75	160	13	0.5
4 151 81	7.5	75	160	13	0.5
4 151 82	10	75	198	13	0.6
4 151 83	12.5	85	198	13	0.8
4 151 84	15	85	273	13	1.2
4 151 85	20	85	273	13	1.2
4 151 86	25	85	348	13	1.5
4 151 87	30	85	348	13	1.6
4 151 88	5	75	160	13	0.5
4 151 89	10.4	85	198	13	0.8
4 151 90	12.5	85	198	13	0.8
4 151 91	15	85	273	13	1.2
4 151 92	20.8	85	273	13	1.2
4 151 93	25	85	348	13	1.5
4 151 94	30	90	348	13	1.5

Detuned reactors

N



SAH 3.45-20.2A

The Alptec detuned reactors are designed to protect the capacitors against harmonics and avoid parallel resonance and amplification of harmonics flowing on the network.

The connection of these reactors in series with capacitors causes a shift of the resonance frequency of the circuit composed by feeding transformer-reactors-capacitors so that the resulting self-resonance frequency is well below the line harmonics.

The blocking factor $p\%$ is expressed by the ratio between inductive reactance and capacitive reactance it corresponds to the increase of voltage applied to capacitors, with respect to line voltage, due to circulation of capacitive current in the reactor.

Conforming to standards IEC/EN 60289

Pack	Cat.Nos	Detuned reactors three-phase 50 Hz		
		Tuning frequency 189 Hz		
		$P\% = 7 / n = 3.78$		
		Max. harmonic pollution THDu $\leq 6\%$, THDi $\leq 30\%$		
		To be associated with 440 V / 480 V capacitors		
1	SAH 4.31-16.2A	Ln (mH)	I RMS (A)	Associated capacitor
1	SAH 3.45-20.2A	4.31	16.2	4 151 82/90
1	SAH 1.73-40.4A	3.45	20.2	4 151 83/91
1	SAH 0.86-80.8A	1.73	40.4	4 151 86/94
1	SAH 0.58-121.2A	0.86	80.8	2 x 4 151 86/94
1	SAH 0.43-161.6A	0.58	121.2	3 x 4 151 86/94
1		0.43	161.6	4 x 4 151 86/94
		Tuning frequency 135 Hz		
		$P\% = 14 / n = 2.7$		
		Max. harmonic pollution THDu $\leq 6\%$, THDi $\leq 30\%$		
		To be associated with 480 V capacitors		
1	SAH 8.10-15.7A	Ln (mH)	I RMS (A)	Associated capacitor
1	SAH 4.05-31.4A	8.1	15.7	4 151 90
1	SAH 2.02-62.8A	4.05	28.9	4 151 93
1	SAH 1.35-94.2A	2.02	62.8	2 x 4 151 93
1	SAH 1.00-125.6A	1.35	94.2	3 x 4 151 93
		1	125.6	4 x 4 151 93

Detuned reactors

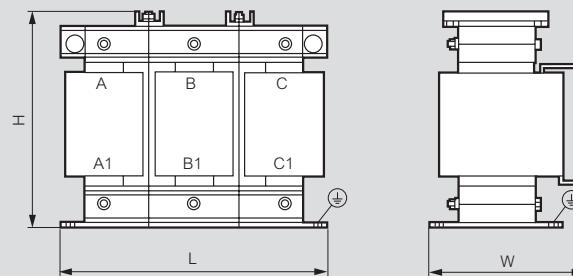
Technical specifications

- Rated line voltage: 400 V / 440 V
- Rated frequency: 50 Hz
- Tolerance on inductance: 0 / + 6 %
- Dielectric test 50 Hz, 3 kV, 60 s, protection class: IP 00
- Cooling method: natural air (AN)
- Ambient temperature: - 5 to + 40 °C
- Elevation above sea level: 1000 m a.s.l
- Conform to: IEC 60289 - EN 602 89
- Insulation class H
- Insulation level 1.1 kV
- Blocking factor $p\% = 7$ - Tuning order = 3.78 / $p\% = 13.7$ - Tuning order = 2.7
- Thermal protection switch (250 V, 2.5 A) wired on terminal block

Installation and requirements

- Operation and storage temperature: - 25 to + 70 °C
- Selection of the right type according to harmonic pollution
- In operation an adequate air circulation must be guaranteed
- Windings must be installed vertically for better heat dissipation
- The reactor must be protected against overloads and short-circuits by fuses and/or circuit breakers
- Suitable protection against undesired contacts (IP00) must be provided by means of enclosures or boxes protecting the power system where the reactor is installed
- It is imperative to that the thermal N.C dry contact be connected in series with the contactor coil, in order to disconnect the step in case of overheating

Dimensions



Aluminium bars

Cat.Nos	Ln (mH)	I RMS (A)	Ptot (W)	Dimensions (mm)			Weight (kg)
				L	W	H	
SAH 4.31-16.2A	4.31	16.2	85	180	140	190	11
SAH 3.45-20.2A	3.45	20.2	105	180	140	190	11
SAH 1.73-40.4A	1.73	40.4	210	240	140	255	17
SAH 0.86-80.8A	0.86	80.8	270	240	165	280	28
SAH 0.58-121.2A	0.58	121.2	400	300	190	315	40
SAH 0.43-161.6A	0.43	161.6	425	320	210	315	50
SAH 8.10-15.7A	8.1	15.7	130	240	140	220	14.5
SAH 4.05-31.4A	4.05	28.9	225	240	160	240	22
SAH 2.02-62.8A	2.02	62.8	395	300	180	315	38
SAH 1.35-94.2A	1.35	94.2	475	320	210	325	51
SAH 1.00-125.6A	1	125.6	615	360	210	375	65

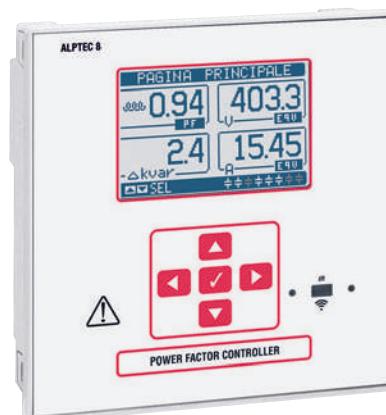
Automatic power factor controllers Alptec 3.2 / 5.2 / 8.2 and Alptec 8



ALPTEC3.2



ALPTEC8.2



ALPTEC8



Technical characteristics p. 117

Pack	Cat.Nos	Power factor controllers Alptec 3.2 / 5.2 / 8.2	Power factor controller Alptec 8
1	ALPTEC3.2	<p>Controls the connection and disconnection of the steps, in order to maintain the target power factor. Detects critical operating conditions (also in systems having high harmonic content) and protects the power factor correction system.</p> <p>Connection to single and three-phase lines, three-phase lines with neutral control and co-generation systems with 4-quadrant operation. Can be used for medium-voltage applications.</p> <ul style="list-style-type: none"> Main functions: <ul style="list-style-type: none"> - regulation adjustment on power factor - automatic identification of sense of CT current flow - extreme reduction of the number of switching operations - balanced use of steps with same power rating - reactive power measurement per installed step - recording of the number of connections per step - capacitor over-current protection - over-temperature protection by internal sensor - accurate no-voltage release protection function - current and voltage harmonic analysis - quick CT programming function Equipped with: <ul style="list-style-type: none"> - USB frontal optic for controller programming, diagnostics and data downloads - LCD backlight display for excellent data reading even with bad lighting conditions (6 languages available) - USB and WiFi communication interface for PC, smartphone and tablet connection <p>Can be equipped with specific expansion modules to extend its own functionality. Conforming to standard IEC 61010-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, UL508, CSA C22.2 n°14</p> <p>3 steps expandable to 6 steps Accepts 1 expansion module</p>	<p>8 steps expandable to a maximum of 18 steps. Controls the connection and disconnection of the steps, in order to maintain the target power factor. Detects critical operating conditions (also in systems having high harmonic content) and protects the power factor correction system.</p> <p>Connection to single and three-phase lines, three-phase lines with neutral control and co-generation systems with 4-quadrant operation. Can be used for medium-voltage applications.</p> <ul style="list-style-type: none"> Main functions: <ul style="list-style-type: none"> - regulation adjustment on power factor or tangent phi - automatic identification of sense of CT current flow - extreme reduction of the number of switching operations - balanced use of steps with same power rating - reactive power measurement per installed step - recording of the number of connections per step - capacitor over-current protection on all three phases - over-temperature protection by internal sensor - accurate no-voltage release protection function - current and voltage harmonic analysis - harmonic analysis of current and voltage waveforms recorded for overload events - quick CT programming function Equipped with: <ul style="list-style-type: none"> - USB frontal optic for controller programming, diagnostics and data downloads - LCD backlight display for excellent data reading even with bad lighting conditions (10 languages available) - USB and WiFi communication interface for PC, smartphone and tablet connection <p>Can be equipped with specific expansion modules to extend its own functionality. Accepts up to 4 expansion modules. Conforming to standard IEC 61010-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, UL508, CSA C22.2 n°14</p>
1	ALPTEC5.2	5 steps expandable to 8 steps Accepts 1 expansion module	
1	ALPTEC8.2	8 steps expandable to 14 steps Accepts up to 2 expansion modules	

Expansion modules for Alptec automatic power factor controllers



Communication accessories for Alptec automatic power factor controllers



EXT2GR



CX01V271

Pack	Cat.Nos	Expansion modules	Communication accessories
1	EXT2GR	To be mounted at the rear of Alptec power factor controllers Output expansion modules for Alptec 8 and Alptec 3.2 / 5.2 / 8.2 2 relay output For increasing the number of steps	Cable These communication devices allow Alptec 8 power factor controller to be linked with PC, smartphones or tablets
1	EXT3GR	3 relay output For increasing the number of steps	Wi-Fi connecting device PC connecting cable with USB connector For Alptec 8 and Alptec 3.2 / 5.2 / 8.2 For programming, data download, diagnostics and firmware upgrade The PC identifies the connection as a standard USB, no need to disconnect the power supply of the electrical switchboard
1	EXT4GRS	Output expansion modules for Alptec 8 4 static output - opto-isolated For solid state contactors application	Antenna for Alptec 8 power factor controller GSM quad-band antenna (800/900/1800/1900MHz) for EXTGSM expansion module Compatible with major worldwide mobile phonennetworks
1	EXTHARM	Harmonic protection	
1	EXTRS485	Communication expansion ports for Alptec 8 and Alptec 3.2 / 5.2 / 8.2 RS 485 opto-isolated communication interface	Software Set-up, automatic panel test and remote control software For Alptec 8 and Alptec 3.2 / 5.2 / 8.2
1	EXTETH	Communication expansion ports for Alptec 8 Ethernet opto-isolated communication interface	
1	EXTGSM	GPRS/GSM modem To be associated with GSM antenna Cat.No CX03V271	
1	EXTPROFI	Opto isolated Profibus - DP interface	



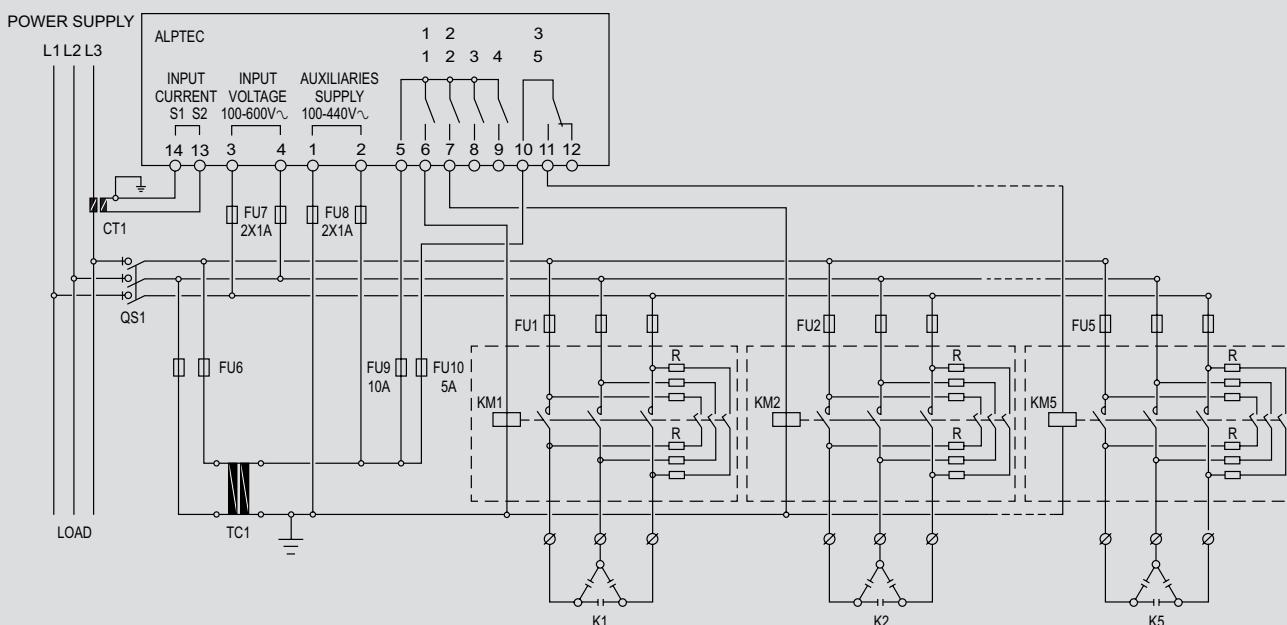
Automatic power factor controllers Alptec 3.2 / 5.2 / 8.2 and Alptec 8

technical characteristics

Technical specifications

	ALPTEC 3.2 / 5.2 / 8.2	ALPTEC 8
AUXILIARY SUPPLY CIRCUIT		
Rated auxiliary voltage Us	100-440 Vac	100-415 VAC
Operation range	- 10 à + 10 %	- 10 to + 10 %
Rated frequency	50 Hz or 60 Hz ± 10 %	50 Hz or 60 Hz ± 10 %
Maximum power consumption	12 VA	12 VA
Maximum power dissipation (output contacts excluded)	4.5 W	4.5 W
CIRCUIT DE TENSION		
Control voltage	100-600 Vac	100-600 VAC
Operating range	50-720 Vac	50-720 VAC
Rated frequency	50 or 60 Hz ± 10 % - 360-440 Hz	50 or 60 Hz ± 10 % - 360-440 Hz
Immunity time for microbreakers	35 ms (110 Vac) - 80 ms (220-415 Vac)	35 ms (110 VAC) - 80 ms (220-415 VAC)
CURRENT CIRCUIT		
Rated current Ie	Programmable 5 A / 1 A	Programmable 5 A / 1 A
Operating range	0.025-6 A / 0.025-1.2 A	0.025-6 A / 0.025-1.2 A
Constant overload	1.2 Ie	1.2 Ie
Short time withstand current	50 Ie for 1 s	50 Ie for 1 s
Current consumption	0.6 VA	0.6 VA
MEASUREMENT DATA		
Type of voltage-current measurement	TRMS	TRMS
Power factor adjustment	0.5 inductive to 0.5 capacitive	0.5 inductive to 0.5 capacitive
RELAY OUTPUTS		
Numer of outputs	3, 5 or 8 (with EXT2GR / EXT3GR)	8 (up to 14 with EXT3GR / EXT4GRS)
Contact arrangement		7 NO (SPST) + 1 changeover (SPDT) contacts
IEC rated capacity	5 A 250 V (AC1)	5 A 250 V (AC1)
Maximum capacity of common terminal of contacts	10 A	10 A
Maximum switching voltage	415 VAC	415 VAC
UL/CSA and IEC/EN 60947-5-1 designation	B300	B300
Electrical life (at rated load)	10 ⁶ cycles	10 ⁶ cycles
Mechanical life	30 x 10 ⁶ cycles	30 x 10 ⁶ cycles
STATIC OUTPUTS		
Number of outputs	-	4 or 8 with EXP4GRS
CONNECTIONS		
Type of terminal	Removable/plug-in	Removable/plug-in
Conductor section min-max	0.2 - 2.5 mm ² (24 - 12 AWG)	0.2 - 2.5 mm ² (24 - 12 AWG)
AMBIENT CONDITIONS		
Operating temperature	- 30... + 70 °C	- 30... + 70 °C
Storage temperature	- 30... + 80 °C	- 30... + 80 °C
HOUSING		
IEC degree of protection	IP 54	IP 54

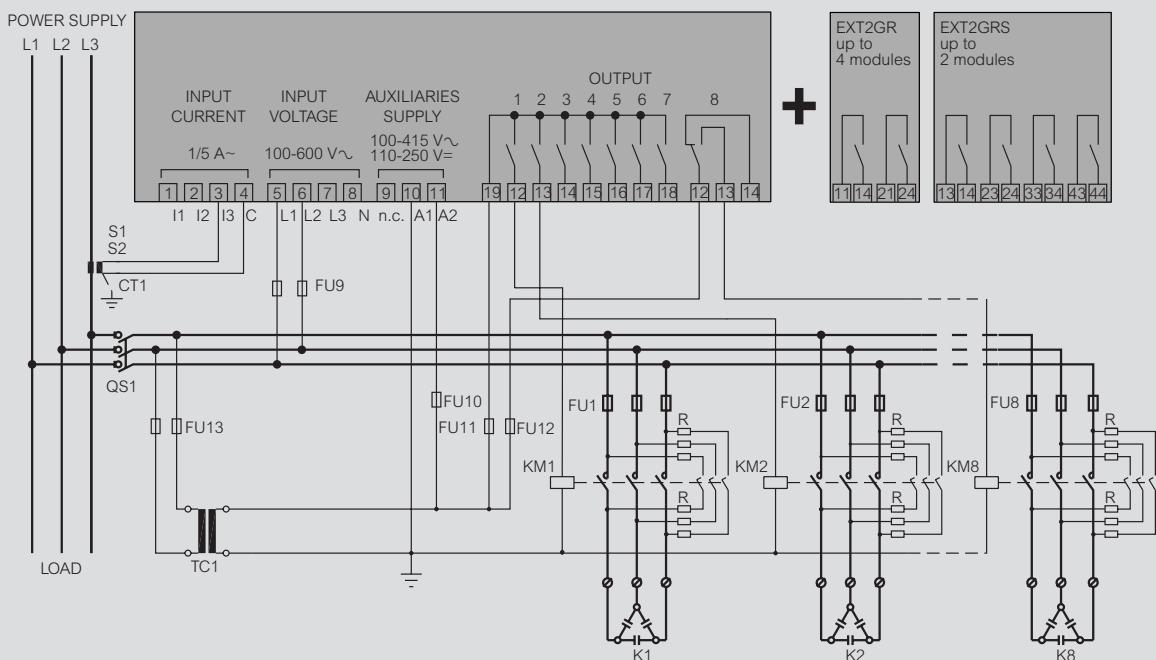
3-phase, standard wiring diagram: ALPTEC 3.2 / 5.2



Automatic power factor controllers Alptec 3.2 / 5.2 / 8.2 and Alptec 8

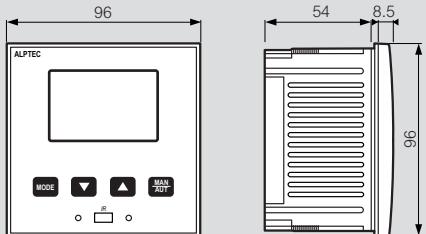
technical characteristics (continued)

3-phase, standard wiring diagram: ALPTEC 8

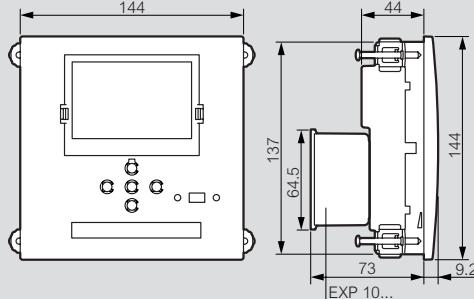


Dimensions

Alptec 3.2 /5.2

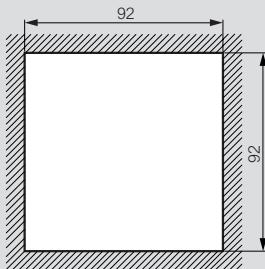


Alptec 8.2 and 8

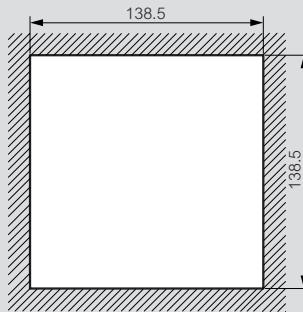


Cut-out

Alptec 3.2 /5.2



Alptec 8.2 and 8



DRX

now up to 630 A

THREE SIZES OF MCCBs, 3-POLE AND 4-POLE

The new DRX 630 MCCBs enhance the DRX range to fit to installations up to 630 A.



DRX 125 from 15 to 125 A
mounting on rail or on plate



DRX 250 from 125 to 250 A
mounting on rail or on plate



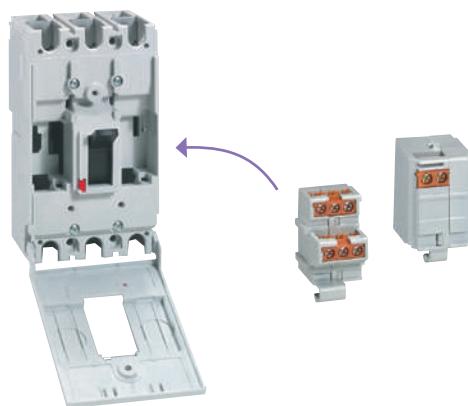
NEW DRX 630 from 320 to 630 A
mounting on plate

BREAKING CAPACITIES FROM 10 TO 50 kA

The wide range of breaking capacities allows the use of DRX of all levels of the installations.

	10 kA	18 kA	20 kA	25 kA	36 kA	50 kA
DRX 125	•		•		•	
DRX 250		•		•	•	
DRX 630			•	•	•	•

- Easy mounting control and signalling auxiliaries common for DRX 125 and DRX 250 and specific for DRX 630.



- A complete range of accessories : rotary handles, insulating shields, connection accessories, locking accessories...



DRX™ 125

thermal magnetic MCCBs from 15 to 125 A



Technical characteristics and curves **p. 121**
Dimensions and installation principle **see e-catalogue**

For switching, control, isolation and protection of low-voltage electrical lines
Can be fitted with auxiliaries (p. 122)

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 125

Breaking capacity Icu 10 kA (415 V~)

	3P	4P	In
1	0 270 00	0 270 10	15 A
1	0 270 01	0 270 11	20 A
1	0 270 02	0 270 12	25 A
1	0 270 03	0 270 13	30 A
1	0 270 04	0 270 14	40 A
1	0 270 05	0 270 15	50 A
1	0 270 06	0 270 16	60 A
1	0 270 39	0 270 29	63 A
1	0 270 07	0 270 17	75 A
1	0 272 55	0 272 56	80 A
1	0 270 08	0 270 18	100 A
1	0 270 09	0 270 19	125 A

Breaking capacity Icu 20 kA (415 V~)

	3P	4P	In
1	0 270 20	0 270 30	15 A
1	0 270 21	0 270 31	20 A
1	0 270 22	0 270 32	25 A
1	0 270 23	0 270 33	30 A
1	0 270 24	0 270 34	40 A
1	0 270 25	0 270 35	50 A
1	0 270 26	0 270 36	60 A
1	0 272 20	0 272 22	63 A
1	0 270 27	0 270 37	75 A
1	0 272 57	0 272 58	80 A
1	0 270 28	0 270 38	100 A
1	0 272 21	0 272 23	125 A

Breaking capacity Icu 36 kA (415 V~)

	1P	2P	In
1	0 270 40 ¹	0 270 50	15 A
1	0 270 41 ¹	0 270 51	20 A
1	0 270 42 ¹	0 270 52	25 A
1	0 270 43 ¹	0 270 53	30 A
1	0 270 44 ¹	0 270 54	40 A
1	0 270 45 ¹	0 270 55	50 A
1	0 270 46 ¹	0 270 56	60 A
1	0 270 47 ¹	0 270 57	75 A
1	0 270 48 ¹	0 270 58	100 A

3P 4P In

	3P	4P	In
1	0 270 60	0 270 70	15 A
1	0 270 61	0 270 71	20 A
1	0 270 62	0 270 72	25 A
1	0 270 63	0 270 73	30 A
1	0 270 64	0 270 74	40 A
1	0 270 65	0 270 75	50 A
1	0 270 66	0 270 76	60 A
1	0 272 24	0 272 26	63 A
1	0 270 67	0 270 77	75 A
1	0 272 59	0 272 60	80 A
1	0 270 68	0 270 78	100 A
1	0 272 25	0 272 27	125 A

Pack Cat.Nos Mounting on rail

Plates for fixing DRX 125 on DIN rail
For 1P
For 2P
For 3P and 4P

Rotary handles

Direct on DRX

Standard (grey)



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

Sealable terminal shields

Set of 2



Set of 2

Cage terminals

Up to 50 A (inclusive)
From 60 to 100 A
For 125 A



Set of 60 pieces up to 50 A (inclusive)
Set of 60 pieces from 60 to 100 A
Set of 60 pieces 125 A

Padlock for DRX 125 and 250

For locking on "OFF" position
(up to 3 locks)



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

Dimensions
see e-catalogue

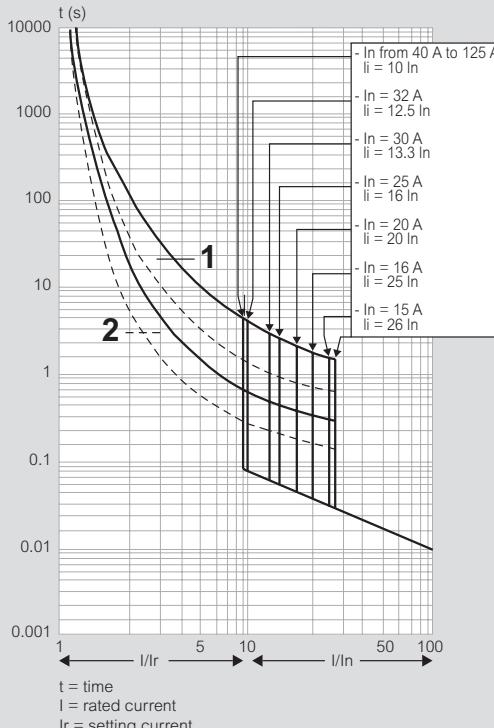


DRX™ 125

technical characteristics and curves

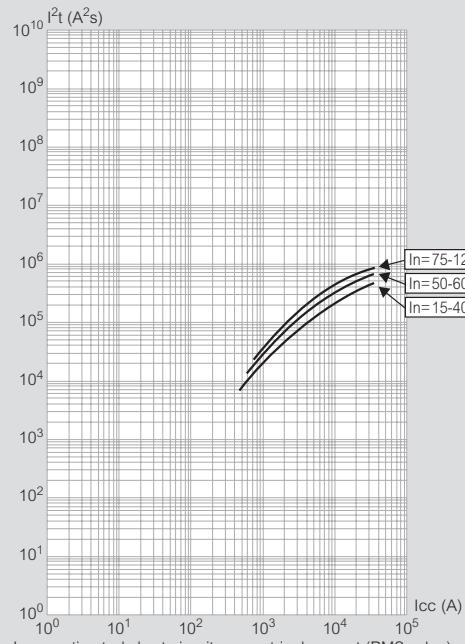
Curves

DRX 125 $I_{max} = 125 \text{ A}$ from 10 kA to 36 kA 3P - 4P at $415 \text{ V}\sim$



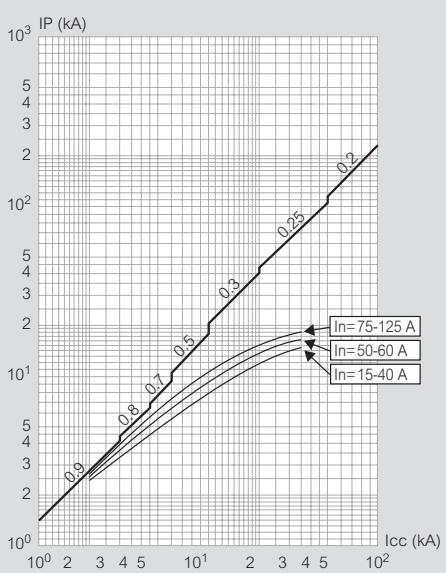
Pass-through specific energy characteristics

DRX 125 $I_{max} = 125 \text{ A}$ from 10 kA to 36 kA 3P - 4P at $415 \text{ V}\sim$



Current limitation

DRX 125 $I_{max} = 125 \text{ A}$ from 10 kA to 36 kA 3P - 4P at $415 \text{ V}\sim$



— maximum prospective short circuit peak current corresponding at the power factor
— maximum real peak short circuit current

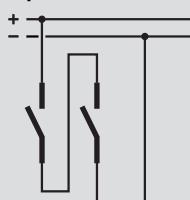
Technical characteristics

	DRX 10 kA	DRX 20 kA	DRX 36 kA ⁽¹⁾	DRX 36 kA	DRX 36 kA
Number of poles	3P - 4P	3P - 4P	1P	2P	3P - 4P
Nominal current In (A)	15-125	15-125	15-100	15-100	15-125
Neutral protection for 4P version (%)	100	100	100	100	100
Rated insulation voltage U_i (V)	690	690	690	690	690
Rated impulse withstand current U_{imp} (kV)	6	6	6	6	6
Rated operating voltage (50/60 Hz) U_e (V)	550	550	550	550	550
110/130 V\sim	50	75	50	75	100
220/240 V\sim	25	40	25	60	100
277 V\sim	-	-	15	50	-
Ultimate breaking capacity I_{cu} (kA) IEC 60947-2					
380/415 V\sim	10	20	10	36	36
440/460 V\sim	10	15	-	30	30
480/550 V\sim	7,5	10	-	20	20
600 V\sim	5	5	-	10	10
125 V\pm	10 ⁽²⁾	10 ⁽²⁾	10	20 ⁽²⁾	20 ⁽²⁾
250 V\pm	5 ⁽²⁾	5 ⁽²⁾	5	10 ⁽²⁾	10 ⁽²⁾
Ultimate breaking capacity I_{cu} (kA) NEMA AB-1					
240 V\sim	25	40	25	100	100
480 V\sim	7,5	10	-	20	20
600 V\sim	5	5	-	10	10
Standard breaking capacity I_{cs} (% I_{cu})	50	50	50	50	50
Category of use	A	A	A	A	A
Suitable for isolation	YES	YES	YES	YES	YES
Endurance (cycles)					
mechanical	25000	25000	25000	25000	25000
electrical at I_n	8000	8000	8000	8000	8000
electrical at 0.5 I_n	10000	10000	10000	10000	10000

1: 1P - I_{cu} 25 kA (220/240 V \sim)

2: 2 poles in series

2 poles in series



DRX™ 250

thermal magnetic MCCBs from 125 to 250 A



0 271 06



0 271 04



0 271 12 (captive cover)



0 271 88



0 271 74



0 271 80



Technical characteristics and curves **p. 123**

Dimensions and installation principle **see e-catalogue**

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
			Breaking capacity Icu 18 kA (415 V~)
In			
1	0 271 00	0 271 06	125 A
1	0 271 01	0 271 07	150 A
1	0 272 28	0 272 29	160 A
1	0 271 02	0 271 08	175 A
1	0 271 03	0 271 09	200 A
1	0 271 04	0 271 10	225 A
1	0 271 05	0 271 11	250 A
Breaking capacity Icu 25 kA (415 V~)			
In			
1	0 271 12	0 271 18	125 A
1	0 271 13	0 271 19	150 A
1	0 272 30	0 272 31	160 A
1	0 271 14	0 271 20	175 A
1	0 271 15	0 271 21	200 A
1	0 271 16	0 271 22	225 A
1	0 271 17	0 271 23	250 A
Breaking capacity Icu 36 kA (415 V~)			
In			
1	0 271 24	0 271 30	125 A
1	0 271 25	0 271 31	150 A
1	0 272 32	0 272 33	160 A
1	0 271 26	0 271 32	175 A
1	0 271 27	0 271 33	200 A
1	0 271 28	0 271 34	225 A
1	0 271 29	0 271 35	250 A

Mounting on rail

Plate for fixing DRX 250 on DIN rail



5 0 271 88

Rotary handles

Direct on DRX

Standard (grey)

Vari-depth handle

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

Standard (grey)



1 0 271 78

1 0 271 79

Pack	Cat.Nos		Connection accessories
1	3P	4P	Insulating shields
1	0 271 81	0 271 82	Used to isolate the connection between each pole Set of 2
1	0 271 85	0 271 86	Set of 3
1	0 271 85 0 271 86		Sealable terminal shields
1	0 271 74 0 271 75	0 271 94	Set of 2
1	0 271 74	0 271 94	Cage terminals
1	0 271 74	0 271 94	Up to 250 A Set of 60 pieces
1	0 271 80		Padlock for DRX 125 and 250
1	0 271 80		For locking on "OFF" position (up to 3 locks)
			Control and signalling auxiliaries for DRX 125 and 250
1	0 271 40	0 271 41	Auxiliary contact blocks
1	0 271 40	0 271 41	For left-hand side mounting
1	0 271 40	0 271 41	Up to 250 V~ and =
1	0 271 42	0 271 43	Block with 1 auxiliary
1	0 271 42	0 271 43	Block with 1 alarm
1	0 271 42	0 271 43	Block with 1 auxiliary + 1 alarm
1	0 271 50	0 271 51	Shunt trips
1	0 271 50	0 271 51	12 V~ and =
1	0 271 50	0 271 51	24 V~ and =
1	0 271 52	0 271 53	48 V~ and =
1	0 271 52	0 271 53	100/130 V~
1	0 271 54	0 271 55	200/277 V~
1	0 271 54	0 271 55	380/480 V~
1	0 271 60	0 271 61	Undervoltage releases
1	0 271 60	0 271 61	12 V~ and =
1	0 271 61	0 271 62	24 V~ and =
1	0 271 62	0 271 63	48 V~ and =
1	0 271 63	0 271 64	110 V=
1	0 271 63	0 271 64	110/130 V~
1	0 271 64	0 271 65	200/240 V~
1	0 271 64	0 271 65	277 V~
1	0 271 65	0 271 66	380/415 V~
1	0 271 65	0 271 66	440/480 V~

Dimensions
see e-catalogue

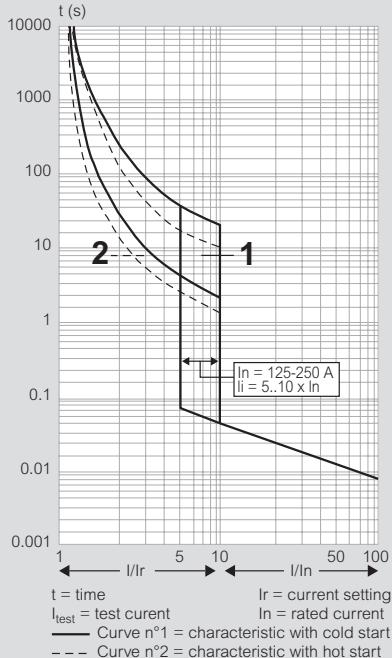


DRX™ 250

technical characteristics and curves

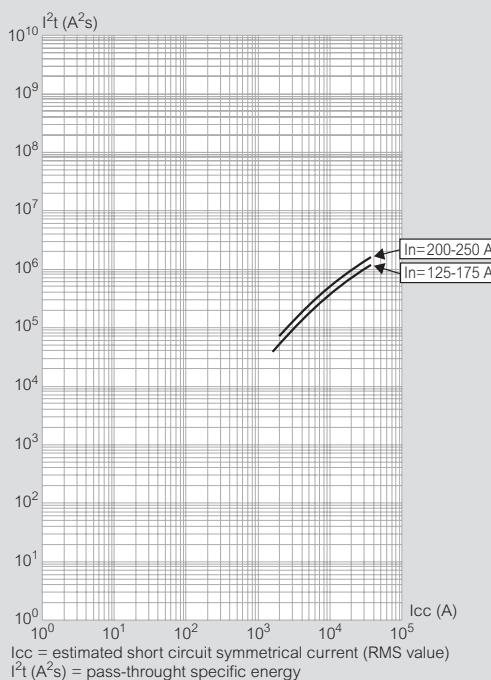
Curves

DRX 250 $I_{max} = 250 \text{ A}$ from 18 kA to 36 kA 3P - 4P at 415 V \sim



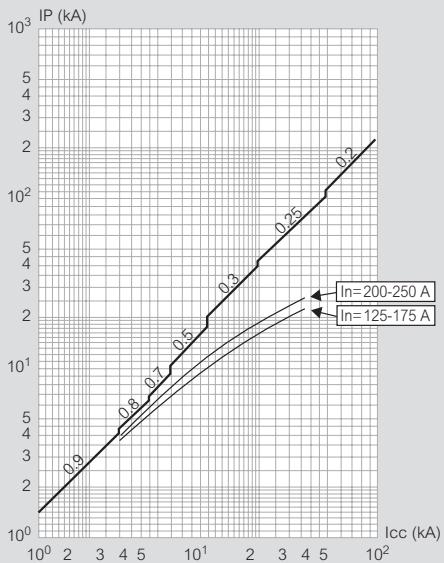
Pass-through specific energy characteristics

DRX 250 $I_{max} = 250 \text{ A}$ from 18 kA to 36 kA 3P - 4P at 415 V \sim



Current limitation

DRX 250 $I_{max} = 250 \text{ A}$ from 18 kA to 36 kA 3P - 4P at 415 V \sim



I_p = maximum short circuit peak current

— maximum prospective short circuit peak current corresponding at the power factor

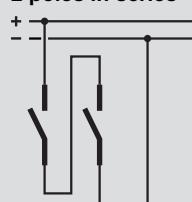
— maximum real peak short circuit current

Technical characteristics

	DRX - 18 kA	DRX - 25 kA	DRX - 36 kA
Number of poles	3P - 4P	3P - 4P	3P - 4P
Nominal current I_n (A)	125-250	125-250	125-250
Neutral protection for 4P version (%)	100	100	100
Rated insulation voltage U_i (V)	690	690	690
Rated impulse withstand current U_{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			
110/130 V \sim	35	60	85
220/240 V \sim	35	50	65
380/415 V \sim	18	25	36
440/460 V \sim	15	25	30
480/550 V \sim	10	15	20
600 V \sim	7,5	10	12
125 V \perp	$10^{(1)}$	$20^{(1)}$	$30^{(1)}$
250 V \perp	$5^{(1)}$	$10^{(1)}$	$15^{(1)}$
Ultimate breaking capacity I_{cu} (kA) NEMA AB-1			
240 V \sim	35	50	65
480 V \sim	10	15	20
600 V \sim	7,5	10	15
Standard breaking capacity I_{cs} (% I_{cu})	50	50	50
Category of use	A	A	A
Suitable for isolation	YES	YES	YES
Endurance (cycles)			
mechanical	25000	25000	25000
electrical at I_n	8000	8000	8000
electrical at 0.5 I_n	10000	10000	10000

1: 2 poles in series

2 poles in series



DRX™ 630

thermal magnetic MCCBs from 320 to 630 A



0 272 45



0 272 49



0 262 50



0 262 51



0 262 48



0 263 52

Technical characteristics and curves p. 125
Dimensions and installation principle [see e-catalogue](#)

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	
	3P	4P
1	0 272 34	0 272 38
1	0 272 35	0 272 39
1	0 272 36	0 272 40
1	0 272 37	0 272 41
	Breaking capacity Icu 36 kA (415 V~)	
	In	
	320 A	
	400 A	
	500 A	
	630 A	
	Breaking capacity Icu 50 kA (415 V~)	
	In	
1	0 272 42	0 272 46
1	0 272 43	0 272 47
1	0 272 44	0 272 48
1	0 272 45	0 272 49

DRX 630

Breaking capacity Icu 36 kA (415 V~)

In
320 A
400 A
500 A
630 A

Breaking capacity Icu 50 kA (415 V~)

In
320 A
400 A
500 A
630 A

Rotary handles



1 0 272 50

Direct on DRX

Standard (grey)

Vari-depth handle

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

Standard (grey)

1 0 272 51

Connection accessories

Insulating shields



Used to isolate the connection between each pole
Set of 2 pieces

1 0 262 30

Sealable terminal shields



Set of 2

1 0 262 44 | 0 262 45

IP 20 terminal cover

Set of two terminal covers



1 4 222 34 | 4 222 35

Cage terminals



Set of 4 cage terminals for cables
Set of 4 high capacity cage terminals for cables

1 0 262 50

1 0 262 51

Extended front terminals



Set of 4 extended front terminals

1 0 262 47

Pack	Cat.Nos	
1	3P	4P
1	0 262 48	0 262 49

Connection accessories (continued)

Spreaders



Set of incoming or outgoing spreaders

Flat terminals



Set of incoming or outgoing flat terminals

Padlock for DRX 630



For locking on "OFF" position (up to 3 locks)

Pack	Cat.Nos	
1	3P	4P
1	0 263 52	0 263 53
1	0 262 40	

Control and signalling auxiliaries for DRX 630

For DPX³, DPX³-I and DRX

Auxiliary contact or fault signal

For signalling the state of the contacts or opening of the MCCB on a fault
Changeover switch 3 A - 240 V~

Shunt releases

Shunt inrush power 300 V~

Coil voltage

24 V~ and =

48 V~ and =

110 V~ and =

230 V~ and =

400 V~ and =

Undervoltage releases

Undervoltage power consumption 5 V~

Coil voltage

24 V=

24 V~

48 V~

110 V~ and =

230 V~ and =

400 V~ and =

Dimensions
[see e-catalogue](#)

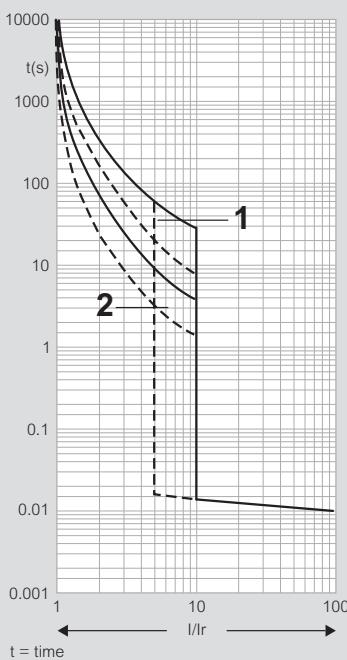


DRX™ 630

technical characteristics and curves

Curves

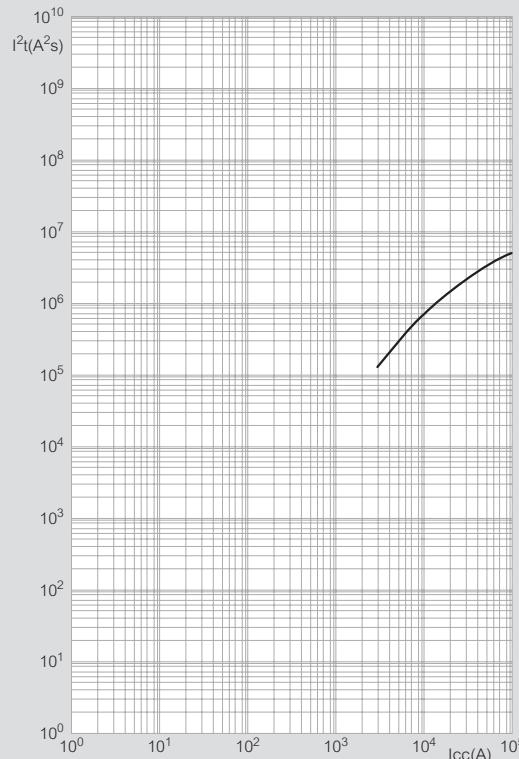
DRX 630 $I_{max} = 630 \text{ A}$ from 36kA to 50 kA 3P - 4P



t = time
I = rated current
Ir = setting current
curve number 1 = characteristic with cold start
curve number 2 = characteristic with hot start

Pass-through specific energy characteristics

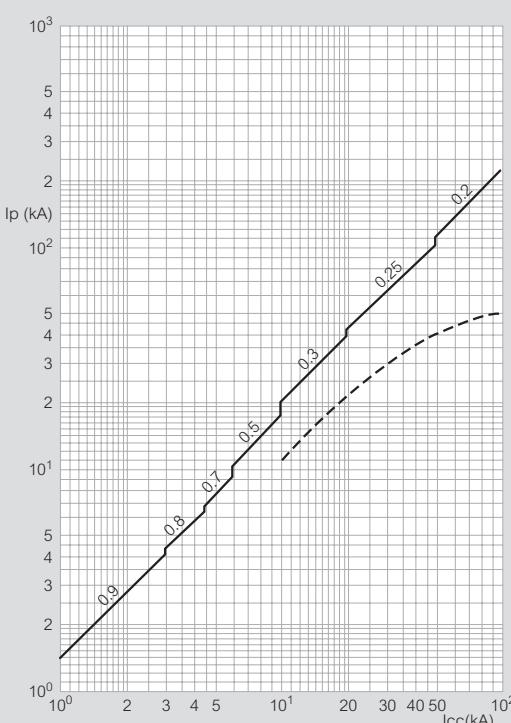
DRX 630 $I_{max} = 630 \text{ A}$ from 36kA to 50 kA 3P - 4P at 415 V~



I_{cc} = estimated short circuit symmetrical current (RMS value)
 $I^2t(A^2s)$ = pass-through specific energy

Current limitation

DRX 630 $I_{max} = 630 \text{ A}$ from 36kA to 50 kA 3P - 4P



I_{cc} = estimated short circuit symmetrical current (RMS value)

I_p = maximum short circuit peak current

— maximum prospective short circuit peak current corresponding at the power factor

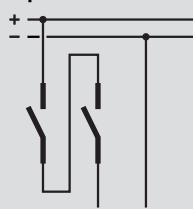
- - - maximum real peak short circuit current

Technical characteristics

	DRX - 36 kA	DRX - 50 kA
Number of poles	3P - 4P	3P - 4P
Nominal current I_n (A)	320-630	320-630
Neutral protection for 4P version (%)	100	100
Rated insulation voltage U_i (V)	690	690
Rated impulse withstand current I_{ump} (kA)	6	6
Rated operating voltage (50/60 Hz) U_e (V)	600	600
Ultimate breaking capacity I_{cu} (kA) IEC 60947-2	220/240 V~ 380/415 V~ 440/460 V~ 480/550 V~ 125 V~ 250 V~	65 36 30 25 40 36
Ultimate breaking capacity I_{cu} (kA) NEMA AB-1	240 V~ 480 V~ 550 V~	60 25 25
Standard breaking capacity I_{cs} (% I_{cu})	50	50
Category of use	A	A
Suitable for isolation	YES	YES
Endurance (cycles)	mechanical electrical at I_n electrical at 0.5 I_n	25000 8000 10000

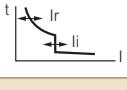
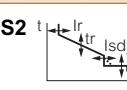
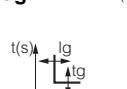
1: 2 poles in series

2 poles in series



DPX³

electrical characteristics

DEVICES	DPX³ 160 thermal magnetic		DPX³ 250 thermal magnetic	
Mounting	On rail or on plate		On rail or on plate	
Breaking capacity (kA) (EN 60947-2 and IEC 60947-2)	16 kA	25 kA	36 kA	50 kA
380/415 V~	16	25	36	50
220/240 V~	25	35	50	65
Breaking capacity (% Icu)	100	100	100	100
Characteristic of use				
Nominal frequency	50/60 Hz			
Maximum rated operating voltage Ue	690 V (500 V with integrated e.l.c.bs)		690 V (500 V with integrated e.l.c.bs)	690 V (500 V with integrated e.l.c.bs)
Category of use	A		A	A
Thermal magnetic adjustment				
 Thermal	0,8 to 1 In		0,8 to 1 In	-
 Magnetic	10 ln (400 A for 16 A and 25 A sizes)		5 to 10 ln	-
Electronic protection adjustment				
  Sg	-		-	I _r : 0,4 to 1 ln I _{sd} : 1,5 to 10 I _r
Maximum cable cross-section				
Rigid cable	150 mm ²		150 mm ²	150 mm ²
Flexible cable	120 mm ²		120 mm ²	120 mm ²
Copper bar and lug width	18 mm		28.5 mm ⁽¹⁾	28.5 mm ⁽¹⁾
Tightening torque	8 Nm		10 Nm	10 Nm
Nominal current (In) at 40 °C (A)				
In (A)	16	25	40	63
Phase	16	25	40	63
N	16	25	40	63
N/2	-	-	-	-
Magnetic threshold (Im) (A)⁽²⁾ of DPX³ thermal magnetic				
In (A)	16	25	40	63
Phase	400	400	400	630
N	400	400	400	630
N/2	-	-	-	-
Endurance (cycles)				
Electrical	8000		8000	8000
Mechanical	25000		20000	20000
Electronic earth leakage module				
Type	without or integrated		without or integrated	without or integrated

1: Copper bars only

2: Trip current for 50/60 Hz. For direct current, multiply by 1.5

DPX³ 630 thermal magnetic		DPX³ 630 electronic release		DPX³ 1600 thermal magnetic		DPX³ 1600 electronic release																		
On plate		On plate		On plate		On plate																		
36 kA	50 kA	70 kA	100 kA	36 kA	50 kA	70 kA	100 kA	36 kA	50 kA	70 kA	100 kA	36 kA	50 kA	70 kA	100 kA									
36	50	70	100	36	50	70	100	36	50	70	100	36	50	70	100									
70	100	120	170	70	100	120	170	70	100	120	170	70	100	120	170									
100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100									
50/60 Hz					690 V~					690 V~					690 V~									
A		A: In 630 A - B: In 200 to 400 A			A		B																	
0.8 to 1 ln		-			0.8 to 1 ln		-																	
5 to 10 ln		-			5 to 10 ln		-																	
		S2		Sg				S2		Sg														
		Ir = 0.4 - 1 x ln		•				Ir = 0.4 - 1 x ln		•														
		tr = 3-30 s		•				tr = 3-30 s		•														
		Isd = 1.5 - 10 lr		•				Isd = 1.5 - 10 lr		•														
		tsd (I=K) = 0-500 ms		•				tsd (I=K) = 0-500 ms		•														
		tsd(I²t=K) = 0-500 ms		•				tsd(I²t=K) = 0-500 ms		•														
		lg = 0.2 - 1 x ln		•				lg = 0.2 - 1 x ln		•														
		tg = 0.1 - 1 s		•				tg = 0.1 - 1 s		•														
300 mm ² or 2 x 240 mm ²		300 mm ² or 2 x 240 mm ²			2 or 4 x 240 mm ²		2 or 4 x 240 mm ²																	
240 mm ² or 2 x 185 mm ²		240 mm ² or 2 x 185 mm ²			2 or 4 x 185 mm ²		2 or 4 x 185 mm ²																	
32 mm		32 mm			50 mm		50 mm																	
15 Nm					20 Nm																			
250	320	400	500	630	250	320	400	500	630	500	630	800	1000	1250	500	630	800	1000	1250	1600				
250	320	400	500	630	250	320	400	500	630	500	630	800	1000	1250	500	630	800	1000	1250	1600				
250	320	400	500	630	0 - 50 - 100 % of phase value				500	630	800	1000	1250	0 - 50 - 100 % of phase value										
-	250	250	250	320	-				-	-	-	-	500	630										
Adjustable																								
250	320	400	500	630	-				500	630	800	1000	1250											
1250- 2500	1600- 3200	2000- 4000	2500- 5000	3150- 6300	-				2500- 5000	3150- 6300	4000- 8000	5000- 10000	6250- 12500											
1250- 2500	1600- 3200	2000- 4000	2500- 5000	3150- 6300	-				2500- 5000	3150- 6300	4000- 8000	5000- 10000	6250- 12500											
-	1000- 2000	1250- 2500	1600- 4000	2000- 4000	-				-	-	-	2500- 5000	3150- 6000											
5000				5000				4000				4000												
10000				20000				10000				10000												
downstream e.l.c.b.s.					downstream e.l.c.b.s.					-														



For DPX³ magnetic release only,
Please, consult us

DPX³ 160 thermal magnetic

MCCBs from 16 to 160 A



4 200 00



4 200 10



4 200 37



4 201 57

Electrical characteristics [see e-catalogue](#)
Dimensions [see e-catalogue](#)

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

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

Supplied with fixing screws cage terminals 70 mm² max. (flexible cable) or 95 mm² max. rigid cable with accessories

Can be fitted with DPX³ 160 and 250 common auxiliaires and accessories (p. 134)

Conform to IEC 60947-2

Pack	Cat.Nos		MCCBs - fixed version	Pack	Cat.Nos		MCCBs with electronic earth leakage module - fixed version
	3P	4P	Thermal adjustable from 0,8 to 1 In Magnetic fixed at 10 In (fixed at 400 A for In 16 A and 25 A)		4P		Thermal adjustable from 0,8 to 1 In Magnetic fixed at 10 In (fixed at 400 A for In 16 A and 25 A)
			Breaking capacity Icu 16 kA (400 V~) In (A)				Equipped with earth leakage module with LCD screen
1	4 200 00	4 200 10	16	1	4 200 30	16	Adjustable sensitivity: 0.03 - 0.3 - 1 - 3 A
1	4 200 01	4 200 11	25	1	4 200 31	25	Adjustable tripping: 0 - 0.3 - 1 - 3s (with 0.03 A possible only 0 s)
1	4 200 02	4 200 12	40	1	4 200 32	40	Breaking capacity Icu 16 kA (400 V~)
1	4 200 03	4 200 13	63	1	4 200 33	63	In (A)
1	4 200 04	4 200 14	80	1	4 200 34	80	16
1	4 200 05	4 200 15	100	1	4 200 35	100	25
1	4 200 06	4 200 16	125	1	4 200 36	125	40
1	4 200 07	4 200 17	160	1	4 200 37	160	63
			Breaking capacity Icu 25 kA (400 V~)				80
1	4 200 40	4 200 50	16	1	4 200 70	16	100
1	4 200 41	4 200 51	25	1	4 200 71	25	125
1	4 200 42	4 200 52	40	1	4 200 72	40	160
1	4 200 43	4 200 53	63	1	4 200 73	63	Breaking capacity Icu 25 kA (400 V~)
1	4 200 44	4 200 54	80	1	4 200 74	80	In (A)
1	4 200 45	4 200 55	100	1	4 200 75	100	16
1	4 200 46	4 200 56	125	1	4 200 76	125	25
1	4 200 47	4 200 57	160	1	4 200 77	160	40
			Breaking capacity Icu 36 kA (400 V~)				63
1	4 200 80	4 200 90	16	1	4 201 10	16	80
1	4 200 81	4 200 91	25	1	4 201 11	25	100
1	4 200 82	4 200 92	40	1	4 201 12	40	125
1	4 200 83	4 200 93	63	1	4 201 13	63	160
1	4 200 84	4 200 94	80	1	4 201 14	80	Breaking capacity Icu 36 kA (400 V~)
1	4 200 85	4 200 95	100	1	4 201 15	100	In (A)
1	4 200 86	4 200 96	125	1	4 201 16	125	16
1	4 200 87	4 200 97	160	1	4 201 17	160	25
			Breaking capacity Icu 50 kA (400 V~)				40
1	4 201 20	4 201 30	16	1	4 201 50	16	63
1	4 201 21	4 201 31	25	1	4 201 51	25	80
1	4 201 22	4 201 32	40	1	4 201 52	40	100
1	4 201 23	4 201 33	63	1	4 201 53	63	125
1	4 201 24	4 201 34	80	1	4 201 54	80	160
1	4 201 25	4 201 35	100	1	4 201 55	100	Breaking capacity Icu 50 kA (400 V~)
1	4 201 26	4 201 36	125	1	4 201 56	125	In (A)
1	4 201 27	4 201 37	160	1	4 201 57	160	16



See the video



DPX³ 160 equipment and mounting accessories



4 210 40



4 210 36

Pack	Cat.Nos	Equipment for plug-in version
		A plug-in version DPX ³ is a fixed version DPX ³ mounted on a plug-in base
		Plug-in bases for DPX³ 160
1	4 210 40	Front or rear terminal mounting base
1	4 210 41	For DPX ³ 160 - 3P
		For DPX ³ 160 - 4P with or without earth leakage module
1	4 210 44	Connectors for auxiliary contacts
		Set of connectors
1	4 210 45	Padlocks for plug-in base
1	4 210 46	Key barrel and flat key N° ABA90GEL6149
1	4 210 47	Key barrel and star key N° HBA90GPS6149
		Padlock accessory

		Connection accessories
		High capacity cage terminals
1	4 210 26	For Cu/Al cables, 1 x 120 mm ² for flexible cables and 1 x 150 mm ² for rigid cable
1	4 210 27	18 mm bars Set of 3 terminals Set of 4 terminals
		Cage terminals
1	4 210 93	For Cu/Al cables, 1 x 70 mm ² for flexible cables and 1 x 95 mm ² for rigid cables
1	4 210 94	14 mm bars Set of 3 terminals Set of 4 terminals
1	4 210 70	Insulated shields (phase barriers)
		Set of 36 insulated shields
		Screw terminals for bars connection
1	4 210 28	For copper bars
1	4 210 29	Set of 3 terminals Set of 4 terminals
		Spreaders
1	4 210 32	For incoming bars or cable lugs
1	4 210 33	Set of 3 spreaders for DPX ³ 160 3P Set of 4 spreaders for DPX ³ 160 4P
		Rear terminals
1	4 210 36	Flat swivel terminals Used to convert a fixed version with front terminals to a fixed version with rear terminals
1	4 210 37	Set of 3 rear terminals for DPX ³ 160 3P Set of 4 rear terminals for DPX ³ 160 4P

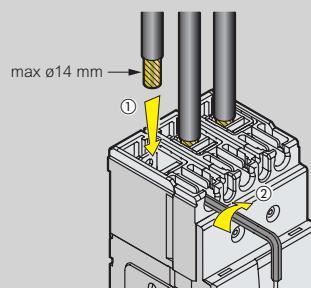
		Sealable terminal shields
		For front terminals
1	4 210 54	For DPX ³ 160 3P
1	4 210 55	For DPX ³ 160 3P
		For rear terminals
1	4 210 50	For DPX ³ 160 3P
1	4 210 51	For DPX ³ 160 4P
		Fixing plates
1	4 210 71	For fixing DPX ³ 160 on L rail or on plate
1	4 210 73	For DPX ³ 160 3P/4P without earth leakage module
1	4 210 68	For DPX ³ 160 4P with earth leakage module
		For DPX ³ 160 3P/4P with side mounting motor operator

DPX³ 160

connection

■ Connection

Direct connection



max ø14 mm

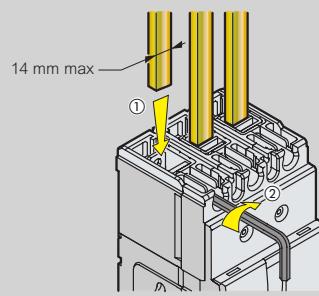
①

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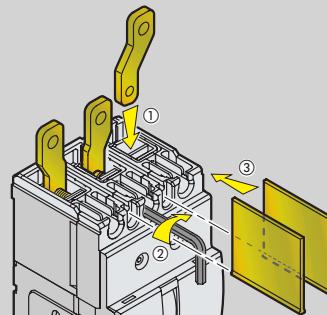
Flexible
1,5 → 70 mm ²
#16 → #2/0 AWG
or
Solid
1,5 → 95 mm ²
#16 → #4/0 AWG

12

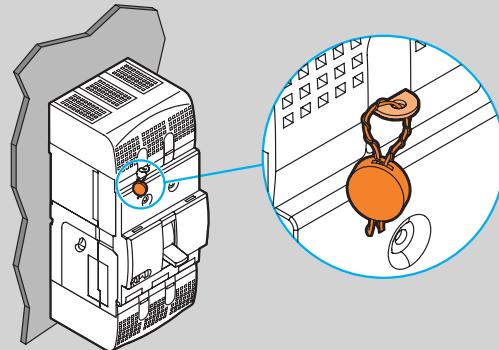
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Spreaders



Sealable terminal shield



Dimensions
see e-catalogue



DPX³ 250 thermal magnetic

MCCBs from 100 to 250 A



4 202 05



4 202 25



Electrical characteristics [see e-catalogue](#)

Dimensions [see e-catalogue](#)

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

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

Supplied with fixing screws, connection plates for bars and cable lugs and insulated shileds (phase barriers)

Can be fitted with cage terminals 120 mm² max. (flexible cable) or 150 mm² max. rigid cable (p. 133)

and with DPX³ 160 and 250 common auxiliaires and accessories (p. 134)

Conform to IEC 60947-2

Pack	Cat.Nos		MCCBs - fixed version	Pack	Cat.Nos		MCCBs with electronic earth leakage module - fixed version
			Thermal adjustable from 0,8 to 1 In Magnetic adjustable from 5 to 10 In				Thermal adjustable from 0,8 to 1 In Magnetic adjustable from 5 to 10 In
			Breaking capacity Icu 25 kA (400 V~)				Equipped with earth leakage module with LCD screen
			In (A)				Adjustable sensitivity: 0.03 - 0.3 - 1 - 3 A
1	3P	4P	100				Adjustable tripping: 0 - 0.3 - 1 - 3s (with 0.03 A possible only 0s)
1	4 202 05	4 202 15	100				Breaking capacity Icu 25 kA (400 V~)
1	4 202 07	4 202 17	160				In (A)
1	4 202 08	4 202 18	200				100
1	4 202 09	4 202 19	250				160
			Breaking capacity Icu 36 kA (400 V~)				200
1	4 202 35	4 202 45	100				250
1	4 202 37	4 202 47	160				Breaking capacity Icu 36 kA (400 V~)
1	4 202 38	4 202 48	200				In (A)
1	4 202 39	4 202 49	250				100
			Breaking capacity Icu 50 kA (400 V~)				160
1	4 202 65	4 202 75	100				200
1	4 202 67	4 202 77	160				250
1	4 202 68	4 202 78	200				Breaking capacity Icu 50 kA (400 V~)
1	4 202 69	4 202 79	250				In (A)
			Breaking capacity Icu 70 kA (400 V~)				100
1	4 206 05	4 206 15	100				160
1	4 206 07	4 206 17	160				200
1	4 206 08	4 206 18	200				250
1	4 206 09	4 206 19	250				Breaking capacity Icu 70 kA (400 V~)
							In (A)
							100
							160
							200
							250



DPX³ 250 electronic release

MCCBs from 40 to 250 A



4 203 69



4 203 25

Electrical characteristics [see e-catalogue](#)
 Dimensions [see e-catalogue](#)

Can be mounted on rail or on plate in XL³ cabinets and enclosures
 MCCBs for switching, control isolation and protection of low voltage electrical lines
 Supplied with fixing screws, connection plates for bars and cable lugs and insulated shileds (phase barriers)
 Can be fitted with cage terminals 120 mm² max. (flexible cable) or 150 mm² max. rigid cable (p. 133)
 and with DPX³ 160 and 250 common auxiliaires and accessories (p. 134)
 Conform to IEC 60947-2

Pack	Cat.Nos		MCCBs - fixed version	Pack	Cat.Nos		MCCBs with electronic earth leakage module - fixed version
			Protection against overloads: Ir adjustable from 0.4 to 1 x In tr adjustable from 3 to 15s Protection against short circuits: Isd adjustable from 1.5 to 10 x Ir tsd adjustable from 0 to 0.5s				Protection against overloads: Ir adjustable from 0.4 to 1 x In tr adjustable from 3 to 15s Protection against short circuits: Isd adjustable from 1.5 to 10 x Ir tsd adjustable from 0 to 0.5s Equipped with earth leakage module with LCD screen Adjustable sensitivity: 0.03 - 0.3 - 1 - 3 A Adjustable tripping: 0 - 0.3 - 1 - 3s (with 0.03 A possible only 0s)
			Breaking capacity Icu 25 kA (400 V~)				Breaking capacity Icu 25 kA (400 V~)
1	3P 4 203 02	4P 4 203 12	In (A) 40 100 160 250	1	4P 4 203 22	40	In (A) 40 100 160 250
1	4 203 05	4 203 15		1	4 203 25	100	
1	4 203 07	4 203 17		1	4 203 27	160	
1	4 203 09	4 203 19		1	4 203 29	250	
			Breaking capacity Icu 36 kA (400 V~)				Breaking capacity Icu 36 kA (400 V~)
1	4 203 32	4 203 42	In (A) 40	1	4 203 52	40	In (A) 40
1	4 203 35	4 203 45	100	1	4 203 55	100	100
1	4 203 37	4 203 47	160	1	4 203 57	160	160
1	4 203 39	4 203 49	250	1	4 203 59	250	250
			Breaking capacity Icu 50 kA (400 V~)				Breaking capacity Icu 50 kA (400 V~)
1	4 203 62	4 203 72	In (A) 40	1	4 203 82	40	In (A) 40
1	4 203 65	4 203 75	100	1	4 203 85	100	100
1	4 203 67	4 203 77	160	1	4 203 87	160	160
1	4 203 69	4 203 79	250	1	4 203 89	250	250
			Breaking capacity Icu 70 kA (400 V~)				Breaking capacity Icu 70 kA (400 V~)
1	4 206 35	4 206 45	In (A) 40	1	4 206 55	40	In (A) 40
1	4 206 37	4 206 47	100	1	4 206 57	100	100
1	4 206 38	4 206 48	160	1	4 206 58	160	160
1	4 206 39	4 206 49	250	1	4 206 59	250	250

Dimensions
[see e-catalogue](#)



DPX³ 250 electronic release

MCCBs from 40 to 250 A (continued)



4 206 79



4 204 25

Electrical characteristics [see e-catalogue](#)
Dimensions [see e-catalogue](#)

Can be mounted on rail or on plate in XL³ cabinets and enclosures
MCCBs for switching, control isolation and protection of low voltage electrical lines
Supplied with fixing screws, connection plates for bars and cable lugs and insulated shileds (phase barriers)
Can be fitted with cage terminals 120 mm² max. (flexible cable) or 150 mm² max. rigid cable (p. 133)
and with DPX³ 160 and 250 common auxiliaires and accessories (p. 134)
Conform to IEC 60947-2

Pack	Cat.Nos	MCCBs with energy metering central unit - fixed version	Pack	Cat.Nos	MCCBs with energy metering central unit and electronic earth leakage module - fixed version
		Protection against overloads: Ir adjustable from 0.4 to 1 x In tr adjustable from 3 to 15s Protection against short circuits: Isd adjustable from 1.5 to 10 x Ir tsd adjustable from 0 to 0.5s Integrated energy metering central unit with LCD screen; currents, voltage, frequency, power, energy and harmonics			Protection against overloads: Ir adjustable from 0.4 to 1 x In tr adjustable from 3 to 15s Protection against short circuits: Isd adjustable from 1.5 to 10 x Ir tsd adjustable from 0 to 0.5s Equipped with earth leakage module with LCD screen
		Breaking capacity Icu 25 kA (400 V~)			Adjustable sensitivity: 0.03 - 0.3 - 1 - 3 A Adjustable tripping: 0 - 0.3 - 1 - 3s (with 0.03 A possible only 0s)
1	4 204 02	3P 4 204 12	1	4 204 22	Integrated energy metering central unit with LCD screen; currents, voltage, frequency, power, energy and harmonics
1	4 204 05	4 204 15	1	4 204 25	Breaking capacity Icu 25 kA (400 V~)
1	4 204 07	4 204 17	1	4 204 27	In (A)
1	4 204 09	4 204 19	1	4 204 29	40
		Breaking capacity Icu 36 kA (400 V~)			100
1	4 204 32	4 204 42			160
1	4 204 35	4 204 45			250
1	4 204 37	4 204 47			Breaking capacity Icu 36 kA (400 V~)
1	4 204 39	4 204 49			In (A)
		Breaking capacity Icu 50 kA (400 V~)			40
1	4 204 62	4 204 72	1	4 204 52	100
1	4 204 65	4 204 75	1	4 204 55	160
1	4 204 67	4 204 77	1	4 204 57	250
1	4 204 69	4 204 79	1	4 204 59	Breaking capacity Icu 50 kA (400 V~)
		Breaking capacity Icu 70 kA (400 V~)			In (A)
1	4 206 65	4 206 75	1	4 204 82	40
1	4 206 67	4 206 77	1	4 204 85	100
1	4 206 68	4 206 78	1	4 204 87	160
1	4 206 69	4 206 79	1	4 204 89	250
		Breaking capacity Icu 70 kA (400 V~)			Breaking capacity Icu 70 kA (400 V~)
			1	4 206 85	40
			1	4 206 87	100
			1	4 206 88	160
			1	4 206 89	250

Dimensions
[see e-catalogue](#)



DPX³ 250 electronic release

MCCBs from 40 to 250 A (continued)



4 205 49

Electrical characteristics [see e-catalogue](#)
Dimensions [see e-catalogue](#)

Can be mounted on rail or on plate in XL³ cabinets and enclosures MCCBs for switching, control isolation and protection of low voltage electrical lines

Supplied with fixing screws, connection plates for bars and cable lugs and insulated shields (phase barriers)

Can be fitted with cage terminals 120 mm² max. (flexible cable) or 150 mm² max. rigid cable (p. 133) and with DPX³ 160 and 250 common auxiliaires and accessories (p. 134)

Conform to IEC 60947-2

Pack	Cat.Nos	Electronic release Sg MCCBs - fixed version
1	4 205 02	Protection against overloads: Ir adjustable from 0.4 to 1 x In tr adjustable from 3 to 15s Protection against short circuits: Isd adjustable from 1.5 to 10 x Ir tsd adjustable from 0 to 0.5s Protection against earth fault: Ig adjustable: from 0.2 to 1 x In and OFF position tg adjustable from 0.1 to 1s
1	4 205 05	Breaking capacity Icu 25 kA (400 V[~]) In (A) 40 100 160 250
1	4 205 07	Breaking capacity Icu 36 kA (400 V[~]) In (A) 40 100 160 250
1	4 205 09	Breaking capacity Icu 50 kA (400 V[~]) In (A) 40 100 160 250
1	4 205 22	Breaking capacity Icu 70 kA (400 V[~]) In (A) 40 100 160 250
1	4 205 25	40
1	4 205 27	100
1	4 205 29	160
1	4 205 32	250
1	4 205 35	
1	4 205 37	
1	4 205 39	
1	4 205 42	
1	4 205 45	
1	4 205 47	
1	4 205 49	
1	4 205 52	
1	4 205 55	
1	4 205 57	
1	4 205 59	
1	4 206 92	
1	4 206 95	
1	4 206 97	
1	4 206 99	
1	4 207 02	
1	4 207 05	
1	4 207 07	
1	4 207 09	

DPX³ 250 equipment and mounting accessories



4 210 44 4 210 31 4 210 72

Pack	Cat.Nos	Equipment for plug-in version
1	4 210 42	Plug-in bases for DPX³ 250 Front or rear terminal mounting base For DPX ³ 250 - 3P
1	4 210 43	For DPX ³ 250 - 4P with or without earth leakage module
1	4 210 44	Connectors for auxiliary contacts Set of connectors
1	4 210 45	Padlocks for plug-in base Key barrel and flat key N° ABA90GEL6149
1	4 210 46	Key barrel and star key N° HBA90GPS6149
1	4 210 47	Padlock accessory
		Connection accessories
1	4 210 30	Cage terminals For Cu/Al cables, 1 x 120 mm ² for flexible cables and 1 x 150 mm ² for rigid cables and lugs 28.5 x 8 x 8.5 mm
1	4 210 31	Set of 3 terminals Set of 4 terminals
1	4 210 79	Screw terminals for bar connections Set of 3 terminals
1	4 210 80	Set of 4 terminals
1	4 210 70	Insulated shields (phase barriers) Set of 36 insulated shields
		Spreaders For incoming bars or cable lugs Set of 3 spreaders for DPX ³ 250 3P Set of 4 spreaders for DPX ³ 250 4P
1	4 210 34	Rear terminals Flat swivel terminals Used to convert a fixed version with front terminals to a fixed version with rear terminals
1	4 210 35	Set of 3 rear terminals for DPX ³ 250 3P Set of 4 rear terminals for DPX ³ 250 4P
		Sealable terminal shields
1	4 210 56	For front terminals For DPX ³ 250 3P
1	4 210 57	For DPX ³ 250 4P
1	4 210 52	For rear terminals For DPX ³ 250 3P
1	4 210 53	For DPX ³ 250 4P
		Fixing plates
1	4 210 72	For fixing DPX ³ 250 on rail or on plate
1	4 210 74	For DPX ³ 250 3P/4P without earth leakage module
1	4 210 69	For DPX ³ 250 4P with earth leakage module For DPX ³ 250 3P/4P with side mounting motor operator

Dimensions [see e-catalogue](#)



DPX³ 160 and 250 common auxiliaries and accessories



4 210 58



4 210 00



4 210 10



4 210 11



4 210 16



4 210 22

Pack	Cat.Nos	Supply inverter type
1	4 210 58	Plate for mounting and interlocking of 2 DPX ³ For 2 DPX ³ 160 or 2 DPX ³ 250 or 1 DPX ³ 160 and 1 DPX ³ 250
1	4 210 59	For fixed version For plug-in and draw-out version

Rotary handles	
Direct on DPX	
1	4 210 00
	Standard handle for thermal magnetic DPX ³ without earth leakage module
1	4 210 01
	Standard handle for electronic DPX ³ and/or with earth leakage module
1	4 210 02
	Handle for emergency use for thermal magnetic DPX ³ without earth leakage module
1	4 210 03
	Handle for emergency use for electronic DPX ³ and/or with earth leakage module
Vari-depth handles	
1	4 210 04
	Standard handle
1	4 210 05
	Handle for emergency use
Locking accessories	
1	4 210 06
	Key barrel and flat key N° ABA90GEL6149 for direct handle
1	4 210 07
	Key barrel and star key N° HBA90GPS6149 for direct handle
1	4 210 08
	Key barrel and flat key N° ABA90GEL6149 for vari-depth handle
1	4 210 09
	Key barrel and star key N° HBA90GPS6149 for vari-depth handle

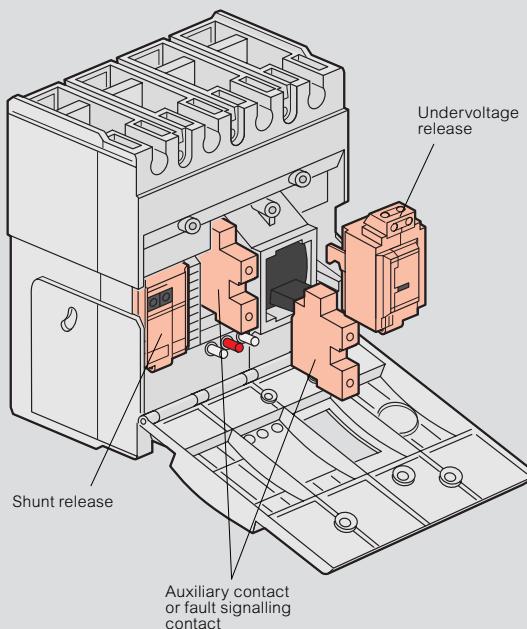
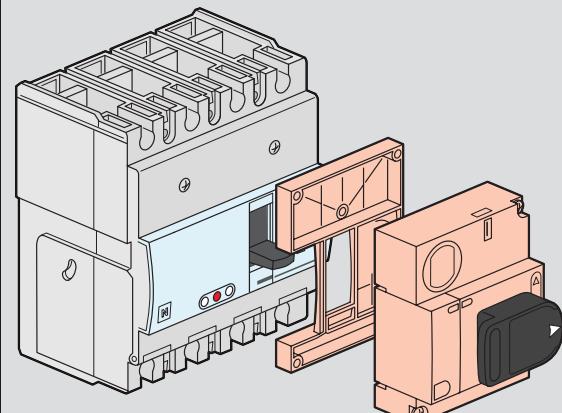
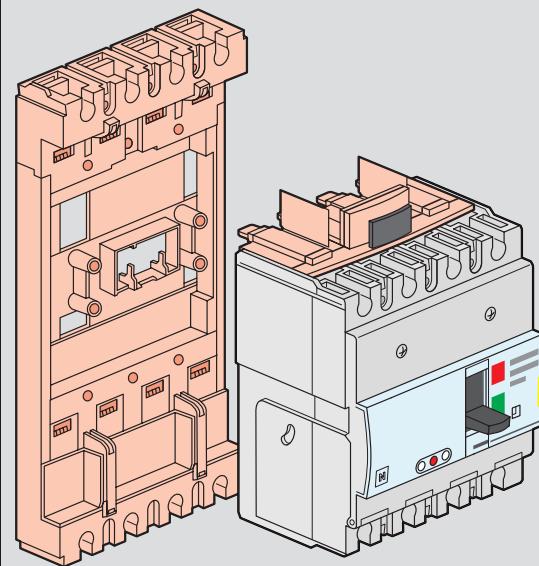
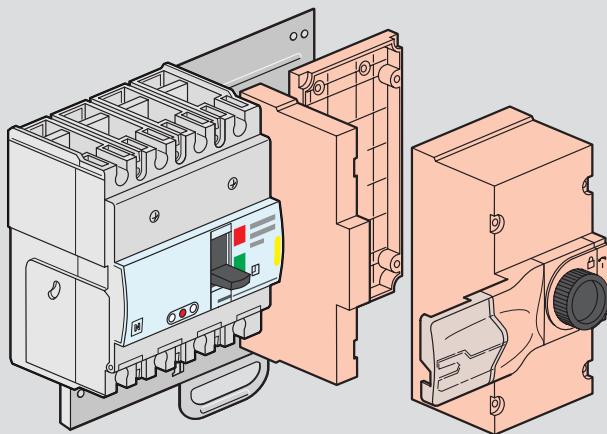
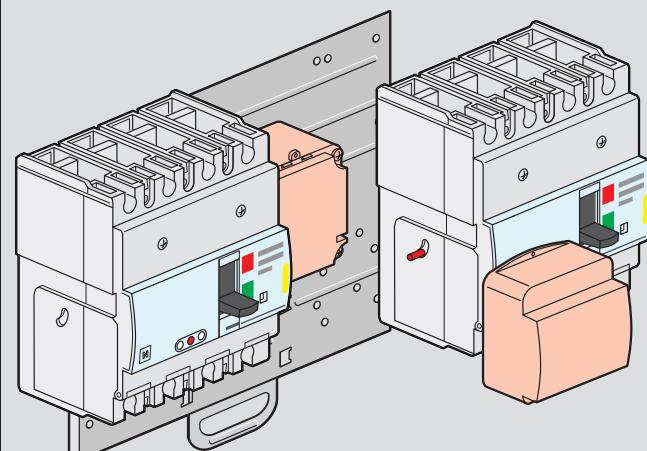
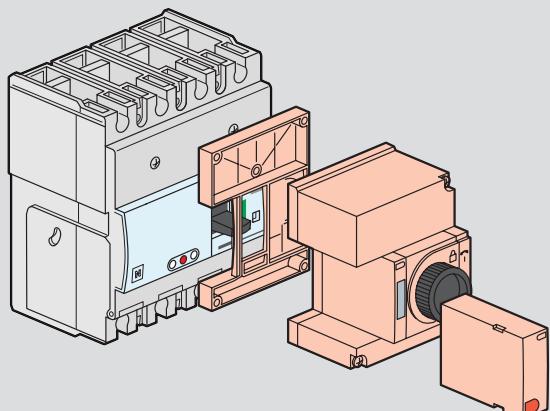
Motor-driven handles	
Motor operators 24 to 230 V~/=	
1	4 210 60
	Side motor operator
1	4 210 61
	Front motor operator
Locking accessories	
1	4 210 62
	Key barrel and flat key N° ABA90GEL6149 for front motor operator
1	4 210 63
	Key barrel and star key N° HBA90GPS6149 for front motor operator
1	4 210 64
	Padlock for front motor operator
1	4 210 65
	Key barrel and flat key N° ABA90GEL6149 for side motor operator
1	4 210 66
	Key barrel and star key N° HBA90GPS6149 for side motor operator
1	4 210 67
	Padlock for side motor operator

Pack	Cat.Nos	Auxiliaries
Auxiliary contacts		
1	4 210 10	1 N/C + 1 N/O auxiliary contact for rotary handles
1	4 210 11	Auxiliary contact or fault signalling contact
1	4 210 48	Signalling contact plugged-in / drawn-out (for DPX ³ plug-in version)
Shunt releases		
1	4 210 12	12 V~/=
1	4 210 13	24 V~/=
1	4 210 14	48 V~/=
1	4 210 15	110-130 V~
1	4 210 16	200-277 V~
1	4 210 17	380-480 V~
Undervoltage releases		
1	4 210 18	12 V~/=
1	4 210 19	24 V~/=
1	4 210 20	48 V~/=
1	4 210 21	110-130 V~/=
1	4 210 22	200-240 V~
1	4 210 23	277 V~
1	4 210 24	380-415 V~
1	4 210 25	440-480 V~
Locking accessory		
1	4 210 49	Padlock for locking in "open" position



DPX³ 160/250

installation principle

Auxiliaries mounting**Direct rotary handle****Plug-in version****Side mounting motor-driven handle****Front mounting motor-driven handle**

DPX³ 630

thermal magnetic release MCCBs from 250 to 630 A



4 220 02



4 220 07

Dimensions [see e-catalogue](#)
Electrical characteristics [see e-catalogue](#)

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

Can be fitted with auxiliaries (p. 146)

Can be used with earth leakage modules (p. 140) or with residual current relays (p. 147)

Supplied complete with:

- fixing screws
- connection plates for bars
- insulated shields (phase barriers)

Conform to IEC 60947-2 - Sealable adjustment

Can be mounted on plate in XL³ cabinets and enclosures

Pack	Cat.Nos	
	MCCBs thermal magnetic release - fixed version	
	Thermal adjustable from 0.8 to 1 In Magnetic adjustable from 5 to 10 In	
	Breaking capacity Icu 36 kA (400 V~)	
	In (A)	
1	3P 4P	
1	4 220 00 4 220 05	250
1	4 220 01 4 220 06	320
1	4 220 02 4 220 07	400
1	4 220 03 4 220 08	500
1	4 220 04 4 220 09	630
	3P + N/2	
1	4 220 10	320
1	4 220 11	400
1	4 220 12	500
1	4 220 13	630
	Breaking capacity Icu 50 kA (400 V~)	
	In (A)	
1	3P 4P	
1	4 220 14 4 220 19	250
1	4 220 15 4 220 20	320
1	4 220 16 4 220 21	400
1	4 220 17 4 220 22	500
1	4 220 18 4 220 23	630
	3P + N/2	
1	4 220 24	320
1	4 220 25	400
1	4 220 26	500
1	4 220 27	630

Pack	Cat.Nos	
	MCCBs thermal magnetic release - fixed version (continued)	
	Breaking capacity Icu 70 kA (400 V~)	
	In (A)	
1	3P 4P	
1	4 220 28 4 220 33	250
1	4 220 29 4 220 34	320
1	4 220 30 4 220 35	400
1	4 220 31 4 220 36	500
1	4 220 32 4 220 37	630
	3P + N/2	
1	4 220 38	320
1	4 220 39	400
1	4 220 40	500
1	4 220 41	630
	Breaking capacity Icu 100 kA (400 V~)	
	In (A)	
1	3P 4P	
1	4 220 42 4 220 47	250
1	4 220 43 4 220 48	320
1	4 220 44 4 220 49	400
1	4 220 45 4 220 50	500
1	4 220 46 4 220 51	630
	3P + N/2	
1	4 220 52	320
1	4 220 53	400
1	4 220 54	500
1	4 220 55	630

Dimensions
[see e-catalogue](#)



DPX³ 630

S1 electronic release MCCBs from 250 to 630 A



4 225 15

Dimensions [see e-catalogue](#)

Electrical characteristics [see e-catalogue](#)

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

Can be fitted with auxiliaries (p. 146)

Can be used with earth leakage modules (p. 140) or with residual current relays (p. 147)

Do not accept DPX³ electronic interface for Modbus Cat.No 4 210 75 (p. 146)

Supplied complete with:

- fixing screws
- connection plates for bars
- insulated shields (phase barriers)

Conform to IEC 60947-2 - Sealable adjustment

Can be mounted on plate in XL³ cabinets and enclosures

Pack	Cat.Nos		MCCBs electronic release S1 - fixed version
			Adjustment of Ir, Isd (opposite) Instantaneous protection If = 5 kA Green indicator lamp Connector for test unit Dynamic selectivity 4P version: adjustment of neutral on front panel
			Breaking capacity Icu 36 kA (400 V~)
1	3P 4 224 98	4P 4 225 03	In (A) 250 320 400 500 630
1	4 224 99	4 225 04	
1	4 225 00	4 225 05	
1	4 225 01	4 225 06	
1	4 225 02	4 225 07	
			Breaking capacity Icu 50 kA (400 V~)
1	4 225 08 4 225 13		250 320 400 500 630
1	4 225 09	4 225 14	
1	4 225 10	4 225 15	
1	4 225 11	4 225 16	
1	4 225 12	4 225 17	
			Breaking capacity Icu 70 kA (400 V~)
1	4 225 18 4 225 23		250 320 400 500 630
1	4 225 19	4 225 24	
1	4 225 20	4 225 25	
1	4 225 21	4 225 26	
1	4 225 22	4 225 27	
			Breaking capacity Icu 100 kA (400 V~)
1	4 225 28 4 225 33		250 320 400 500 630
1	4 225 29	4 225 34	
1	4 225 30	4 225 35	
1	4 225 31	4 225 36	
1	4 225 32	4 225 37	

For DPX 630 electronic release S1 **please consult us**

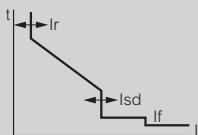


DPX³ 630/1600

electronic release

Performance data

S1 - Adjustment of Ir, Isd



Protection against overloads:

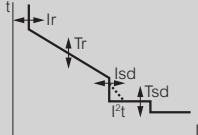
- Ir adjustable from 0.4 to 1 x In

Protection against short circuits:

- Isd adjustable from 1.5 to 10 x Ir

Instantaneous protection If = 5 kA

S2 - Adjustment of Ir, tr, Isd, tsd



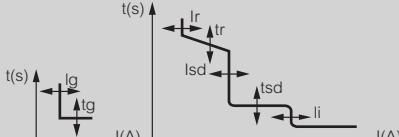
Protection against overloads:

- Ir adjustable from 0.4 to 1 x In
- tr adjustable from 3 to 15 s

Protection against short circuits:

- Isd adjustable from 1.5 to 10 x Ir
- tsd adjustable from 0 to 0.5 s

Sg - Adjustment of Ir, tr, Isd, tsd, Ig, tg



Protection against overloads:

- Ir adjustable from 0.4 to 1 x In
- tr adjustable from 3 to 15 s

Protection against short circuits:

- Isd adjustable from 1.5 to 10 x Ir
- tsd adjustable from 0 to 0.5 s

Protection against earth fault:

- Ig adjustable: from 0.2 to 1 x In and OFF position
- tg adjustable from 0.1 to 1 s

DPX³ 630

S2 electronic release MCCBs from 250 to 630 A



4 220 60



4 220 65

Dimensions [see e-catalogue](#)
Electrical characteristics [see e-catalogue](#)

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

Can be fitted with auxiliaries (p. 146)

Can be used with earth leakage modules (p. 140) or with residual current relays (p. 147)

Supplied complete with:

- fixing screws
- connection plates for bars
- insulated shields (phase barriers)

Conform to IEC 60947-2 - Sealable adjustment

Can be mounted on plate in XL³ cabinets and enclosures

Pack	Cat.Nos		MCCBs electronic release S2 - fixed version		Pack	Cat.Nos		MCCBs electronic release S2 with energy metering central unit - fixed version	
			Adjustment of Ir, Isd, tr, tsd (p. 137) Instantaneous protection If = 5 kA Green indicator lamp Connector for test unit Logic and dynamic selectivity 4P version: adjustment of neutral on front panel					Adjustment of Ir, Isd, tr, tsd (p. 137) Instantaneous protection If = 5 kA Green indicator lamp Connector for test unit Logic and dynamic selectivity 4P version: adjustment of neutral on front panel	
			Breaking capacity Icu 36 kA (400 V~)					Breaking capacity Icu 36 kA (400 V~)	
			In (A)					In (A)	
1	3P	4P	4 220 56	4 220 61	1	3P	4P	4 220 96	4 221 01
1			250	250	1			250	250
1	4 220 57	4 220 62	4 220 58	4 220 63	1	4 220 97	4 221 02	320	320
1			320	400	1	4 220 98	4 221 03	400	400
1	4 220 59	4 220 64	4 220 60	4 220 65	1	4 220 99	4 221 04	500	500
1			500	630	1	4 221 00	4 221 05	630	630
			Breaking capacity Icu 50 kA (400 V~)					Breaking capacity Icu 50 kA (400 V~)	
			In (A)					In (A)	
1	4 220 66	4 220 71	4 220 67	4 220 72	1	3P	4P	4 221 06	4 221 11
1			250	320	1			250	250
1	4 220 68	4 220 73	4 220 69	4 220 74	1	4 221 07	4 221 12	320	320
1			400	500	1	4 221 08	4 221 13	400	400
1	4 220 70	4 220 75	4 220 76	4 220 81	1	4 221 09	4 221 14	500	500
1			630	250	1	4 221 10	4 221 15	630	630
			Breaking capacity Icu 70 kA (400 V~)					Breaking capacity Icu 70 kA (400 V~)	
			In (A)					In (A)	
1	4 220 77	4 220 82	4 220 78	4 220 83	1	3P	4P	4 221 16	4 221 21
1			320	400	1			250	250
1	4 220 79	4 220 84	4 220 80	4 220 85	1	4 221 17	4 221 22	320	320
1			500	630	1	4 221 18	4 221 23	400	400
1	4 220 86	4 220 91	4 220 87	4 220 92	1	4 221 19	4 221 24	500	500
1			250	320	1	4 221 20	4 221 25	630	630
			Breaking capacity Icu 100 kA (400 V~)					Breaking capacity Icu 100 kA (400 V~)	
			In (A)					In (A)	
1	4 220 88	4 220 93	4 220 89	4 220 94	1	3P	4P	4 221 26	4 221 31
1			400	500	1			250	250
1	4 220 90	4 220 95	4 220 91	4 220 96	1	4 221 27	4 221 32	320	320
1			630	250	1	4 221 28	4 221 33	400	400
1	4 220 92	4 220 97	4 220 93	4 220 98	1	4 221 29	4 221 34	500	500
1			320	400	1	4 221 30	4 221 35	630	630



Dimensions
[see e-catalogue](#)



DPX³ 630

Sg electronic release MCCBs from 250 to 630 A



4 221 38



4 221 43

Dimensions [see e-catalogue](#)
Electrical characteristics [see e-catalogue](#)

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

Can be fitted with auxiliaries (p. 146)

Can be used with earth leakage modules (p. 140) or with residual current relays (p. 147)

Supplied complete with:

- fixing screws
- connection plates for bars
- insulated shields (phase barriers)

Conform to IEC 60947-2 - Sealable adjustment

Can be mounted on plate in XL³ cabinets and enclosures

Pack	Cat.Nos		MCCBs electronic release Sg - fixed version
			Adjustment of Ir, Isd, Ig, tr, tsd, tg (p. 137) Instantaneous protection If = 5 kA Green indicator lamp Connector for test unit Logic and dynamic selectivity 4P version: adjustment of neutral on front panel
	3P	4P	
1	4 221 36	4 221 41	In (A) 250
1	4 221 37	4 221 42	320
1	4 221 38	4 221 43	400
1	4 221 39	4 221 44	500
1	4 221 40	4 221 45	630
	Breaking capacity Icu 36 kA (400 V\sim)		
	Breaking capacity Icu 50 kA (400 V\sim)		
	Breaking capacity Icu 70 kA (400 V\sim)		
	Breaking capacity Icu 100 kA (400 V\sim)		
1	4 221 56	4 221 61	250
1	4 221 57	4 221 62	320
1	4 221 58	4 221 63	400
1	4 221 59	4 221 64	500
1	4 221 60	4 221 65	630

Pack	Cat.Nos		MCCBs electronic release Sg with energy metering central unit - fixed version
			Adjustment of Ir, Isd, Ig, tr, tsd, tg (p. 137) Instantaneous protection If = 5 kA Green indicator lamp Connector for test unit Logic and dynamic selectivity 4P version: adjustment of neutral on front panel
	3P	4P	
1	4 221 76	4 221 81	In (A) 250
1	4 221 77	4 221 82	320
1	4 221 78	4 221 83	400
1	4 221 79	4 221 84	500
1	4 221 80	4 221 85	630
	Breaking capacity Icu 36 kA (400 V\sim)		
	Breaking capacity Icu 50 kA (400 V\sim)		
	Breaking capacity Icu 70 kA (400 V\sim)		
	Breaking capacity Icu 100 kA (400 V\sim)		
1	4 221 96	4 222 01	250
1	4 221 97	4 222 02	320
1	4 221 98	4 222 03	400
1	4 221 99	4 222 04	500
1	4 222 00	4 222 05	630
	Breaking capacity Icu 70 kA (400 V\sim)		
	Breaking capacity Icu 100 kA (400 V\sim)		
1	4 222 06	4 222 11	250
1	4 222 07	4 222 12	320
1	4 222 08	4 222 13	400
1	4 222 09	4 222 14	500
1	4 222 10	4 222 15	630

Dimensions [see e-catalogue](#)



DPX³ 630

earth leakage modules



0 260 63

Pack	Cat.Nos
1	3P 0 260 60 4P 0 260 61
1	0 260 64 0 260 65
1	4P 0 260 63 400 630
1	4P 0 260 67

Earth leakage modules

Can be fitted onto DPX³/DPX³-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

In (A)
400
630

LED version

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

In (A)

400

630

Dimensions
see e-catalogue



For the old range of accessories for DPX 630 plug-in and draw-out versions
please consult us

Automation control units for supply invertors p. 157

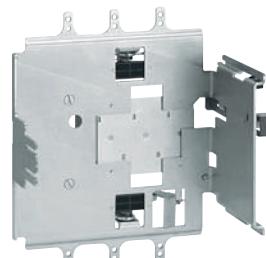


DPX³ 630

equipment and accessories



4 222 22



4 222 32

Pack	Cat.Nos
1	3P 4 222 20 4P 4 222 21
1	4 222 22 4 222 23
1	4 222 24 4 222 25
1	4P 4 222 26 4 222 27
1	4 222 28
1	4 222 29

Plug-in version

A plug-in is a DPX³ fitted with special terminals and mounted on a plug-in base

Special terminals for plug-in/draw-out base

Set of incoming and outgoing terminals (6 terminals for 3P DPX³ or 8 terminals for 4P DPX³)

Bases for DPX³ only

Accept DPX³/DPX³-I fitted with special terminals

Front terminal mounting base
Flat rear terminal mounting base

Bases for DPX³ with earth leakage module

Front terminal mounting base
Flat rear terminal mounting base

Accessories

Set of 2 extractor handle
Set of connectors (24-pin)

Draw-out version

A DPX³ draw-out version is a plug-in DPX³ fitted with a "Debro-lift" mechanism which can be used to withdraw the DPX³ while keeping it on its base

"Debro-lift" mechanism

Supplied with a rigid slide and handle for drawing-out
For DPX³ base only
For DPX³ base with earth leakage module

Key-lock for "Debro-lift" mechanism

Enable locking of DPX³ in drawn-out position
Flat key n°HBA90GPS6149
Star key n°ABA90GEL6149
One key for DPX³ only
Two keys (one key supplied) for motorised DPX³ or with rotary handle

Accessories for "Debro-lift" mechanism

Handle for drawing-out
Signalling contact (plugged-in/drawn-out)

Auxiliary contacts

Automatic auxiliary contacts for DPX³ draw-out version (up to 2 contacts by DPX³)

Supply inverter type

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

DPX³ 630**equipment and accessories (continued)**

0 261 40



0 262 50



0 262 51



0 262 48

Pack Cat.Nos **Rotary handles****Direct on DPX³**

1	0 262 41	Standard (grey)
1	4 222 38	For emergency use (red/yellow) - can be fitted on Cat.Nos 0 262 22, 0 262 41 or 0 262 81
		Vari-depth handle IP 55
1	0 262 81	Comprising: connection rod, bracket, self-adhesive drilling template, mounting accessories and door lock mechanism
1	0 262 82	Standard (grey) For emergency use (red/yellow) can be fitted on Cat.Nos 0 262 81 or 0 262 41
		Locking accessories
1	0 262 93	For vary-depth handle Key barrel and flat key N° ABA90GEL6149
1	0 262 94	Key barrel and star key N° HBA90GPS6149

Motor-driven handles**Front operated**

1	0 261 40	24 V~/=
1	0 261 41	48 V~/=
1	0 261 44	230 V~
		Accessories
1	0 261 59	Lock and flat key N° ABA90GEL6149
1	0 261 58	Lock and star key N° HBA90GPS6149

Pack Cat.Nos**Accessories****Insulated shields (phase barriers)**

Set of 3

Sealable terminal shields

Set of 2

Padlock

For locking in "OPEN" position

Cage terminalsSet 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 incoming or outgoing spreaders

Rear terminals

Used to convert the fixed version with front terminals to the fixed version with rear terminals

Set of incoming or outgoing flat terminals

IP 20 terminal covers

Set of 2 terminal covers

For more spare parts and accessories,
see e-catalogue

DPX³ 1600

thermal magnetic release MCCBs from 630 to 1250 A



4 222 78



4 222 83

Dimensions [see e-catalogue](#)
Electrical characteristics [see e-catalogue](#)

Moulded case MCCBs for switching, control isolation and protection of low voltage electrical lines
Can be fitted with auxiliaries (p. 146)
Can be used with residual current relays (p. 147)
Supplied complete with:
- connection plates for bars
- insulated shields (phase barriers)
Conform to IEC 60947-2 - Sealable adjustment
Can be mounted on plate in XL³ cabinets and enclosures

Pack	Cat.Nos		MCCBs thermal magnetic release fixed version	
			Thermal adjustable from 0.8 to 1 In Magnetic adjustable from 5 to 10 In	
			Breaking capacity Icu 36 kA (400 V~)	
			In (A)	
1	4 222 51	4 222 56	630	
1	4 222 52	4 222 57	800	
1	4 222 53	4 222 58	1000	
1	4 222 54	4 222 59	1250	
			3P + N/2	
1	4 222 60		1000	
1	4 222 61		1250	
			Breaking capacity Icu 50 kA (400 V~)	
			In (A)	
1	4 222 63	4 222 68	630	
1	4 222 64	4 222 69	800	
1	4 222 65	4 222 70	1000	
1	4 222 66	4 222 71	1250	
			3P + N/2	
1	4 222 72		1000	
1	4 222 73		1250	
			Breaking capacity Icu 70 kA (400 V~)	
			In (A)	
1	4 222 75	4 222 80	630	
1	4 222 76	4 222 81	800	
1	4 222 77	4 222 82	1000	
1	4 222 78	4 222 83	1250	
			3P + N/2	
1	4 222 84		1000	
1	4 222 85		1250	
			Breaking capacity Icu 100 kA (400 V~)	
			In (A)	
1	4 222 87	4 222 92	630	
1	4 222 88	4 222 93	800	
1	4 222 89	4 222 94	1000	
1	4 222 90	4 222 95	1250	
			3P + N/2	
1	4 222 96		1000	
1	4 222 97		1250	

DPX³ 1600

S1 electronic release MCCBs from 630 to 1600 A



4 225 59

Dimensions [see e-catalogue](#)
Electrical characteristics [see e-catalogue](#)

Moulded case MCCBs for switching, control isolation and protection of low voltage electrical lines
Can be fitted with auxiliaries (p. 146)
Do not accept DPX³ electronic interface for Modbus Cat.No 4 210 75 (p. 146)
Can be used with residual current relays (p. 147)
Supplied complete with:
- connection plates for bars
- insulated shields (phase barriers)
Conform to IEC 60947-2 - Sealable adjustment
Can be mounted on plate in XL³ cabinets and enclosures

Pack	Cat.Nos		MCCBs electronic release S1 fixed version	
			Adjustment of Ir, Isd (p. 137) Instantaneous protection If = 20 kA Green indicator lamp Connector for test unit Dynamic selectivity 4P version: adjustment of neutral on front panel	
			Breaking capacity Icu 36 kA (400 V~)	
1	4 225 39	4 225 45	630	
1	4 225 40	4 225 46	800	
1	4 225 41	4 225 47	1000	
1	4 225 42	4 225 48	1250	
1	4 225 43	4 225 49	1600	
			Breaking capacity Icu 50 kA (400 V~)	
1	4 225 51	4 225 57	630	
1	4 225 52	4 225 58	800	
1	4 225 53	4 225 59	1000	
1	4 225 54	4 225 60	1250	
1	4 225 55	4 225 61	1600	
			Breaking capacity Icu 70 kA (400 V~)	
1	4 225 63	4 225 69	630	
1	4 225 64	4 225 70	800	
1	4 225 65	4 225 71	1000	
1	4 225 66	4 225 72	1250	
1	4 225 67	4 225 73	1600	
			Breaking capacity Icu 100 kA (400 V~)	
1	4 225 75	4 225 81	630	
1	4 225 76	4 225 82	800	
1	4 225 77	4 225 83	1000	
1	4 225 78	4 225 84	1250	

For DPX 1600 electronic release S1 **please consult us**



DPX³ 1600

S2 electronic release MCCBs from 630 to 1600 A



4 223 27



4 223 33

Dimensions [see e-catalogue](#)
Electrical characteristics [see e-catalogue](#)

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

Can be fitted with auxiliaries (p. 146)

Can be used with residual current relays (p. 147)

Supplied complete with:

- connection plates for bars

- insulated shields (phase barriers)

Conform to IEC 60947-2 - Sealable adjustment

Can be mounted on plate in XL³ cabinets and enclosures

Pack	Cat.Nos		MCCBs electronic release S2 fixed version	
			Adjustment of Ir, Isd, tr, tsd (p. 137) Instantaneous protection If = 20 kA Green indicator lamp Connector for test unit Logic and dynamic selectivity 4P version: adjustment of neutral on front panel	
			Breaking capacity Icu 36 kA (400 V~)	
1	3P 4 223 99	4 223 05	In (A) 630	
1	4 223 00	4 223 06	800	
1	4 223 01	4 223 07	1000	
1	4 223 02	4 223 08	1250	
1	4 223 03	4 223 09	1600	
			Breaking capacity Icu 50 kA (400 V~)	
1	4 223 11	4 223 17	630	
1	4 223 12	4 223 18	800	
1	4 223 13	4 223 19	1000	
1	4 223 14	4 223 20	1250	
1	4 223 15	4 223 21	1600	
			Breaking capacity Icu 70 kA (400 V~)	
1	4 223 23	4 223 29	630	
1	4 223 24	4 223 30	800	
1	4 223 25	4 223 31	1000	
1	4 223 26	4 223 32	1250	
1	4 223 27	4 223 33	1600	
			Breaking capacity Icu 100 kA (400 V~)	
1	4 223 35	4 223 41	630	
1	4 223 36	4 223 42	800	
1	4 223 37	4 223 43	1000	
1	4 223 38	4 223 44	1250	

Pack	Cat.Nos		MCCBs electronic release S2 with energy metering central unit fixed version	
			Adjustment of Ir, Isd, tr, tsd (p. 137) Instantaneous protection If = 20 kA Green indicator lamp Connector for test unit Logic and dynamic selectivity 4P version: adjustment of neutral on front panel	
			Breaking capacity Icu 36 kA (400 V~)	
1	3P 4 223 47	4 223 53	In (A) 630	
1	4 223 48	4 223 54	800	
1	4 223 49	4 223 55	1000	
1	4 223 50	4 223 56	1250	
1	4 223 51	4 223 57	1600	
			Breaking capacity Icu 50 kA (400 V~)	
1	4 223 59	4 223 65	630	
1	4 223 60	4 223 66	800	
1	4 223 61	4 223 67	1000	
1	4 223 62	4 223 68	1250	
1	4 223 63	4 223 69	1600	
			Breaking capacity Icu 70 kA (400 V~)	
1	4 223 71	4 223 77	630	
1	4 223 72	4 223 78	800	
1	4 223 73	4 223 79	1000	
1	4 223 74	4 223 80	1250	
1	4 223 75	4 223 81	1600	
			Breaking capacity Icu 100 kA (400 V~)	
1	4 223 83	4 223 89	630	
1	4 223 84	4 223 90	800	
1	4 223 85	4 223 91	1000	
1	4 223 86	4 223 92	1250	

Dimensions [see e-catalogue](#)



DPX³ 1600

Sg electronic release MCCBs from 630 to 1600 A



4 224 23



4 224 29

Dimensions [see e-catalogue](#)
Electrical characteristics [see e-catalogue](#)

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

Can be fitted with auxiliaries (p. 146)

Can be used with residual current relays (p. 147)

Supplied complete with:

- connection plates for bars

- insulated shields (phase barriers)

Conform to IEC 60947-2 - Sealable adjustment

Can be mounted on plate in XL³ cabinets and enclosures

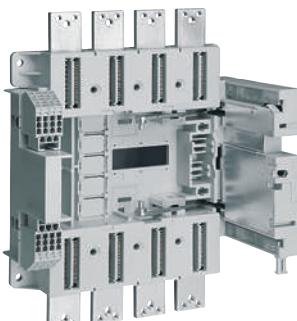
Pack	Cat.Nos		MCCBs electronic release Sg fixed version		Pack	Cat.Nos		MCCBs electronic release Sg with energy metering central unit fixed version	
			Adjustment of Ir, lsd, Ig, tr, tsd, tg (p. 137) Instantaneous protection If = 20 kA Green indicator lamp Connector for test unit Logic and dynamic selectivity 4P version: adjustment of neutral on front panel					Adjustment of Ir, lsd, Ig, tr, tsd, tg (p. 137) Instantaneous protection If = 20 kA Green indicator lamp Connector for test unit Logic and dynamic selectivity 4P version: adjustment of neutral on front panel	
			Breaking capacity Icu 36 kA (400 V~)					Breaking capacity Icu 36 kA (400 V~)	
1	3P	4 223 95	4P	4 224 01	1	3P	4 224 43	4P	4 224 49
1		630			1		4 224 44		800
1	4 223 96	4 224 02			1	4 224 45	4 224 51		1000
1	4 223 97	4 224 03			1	4 224 46	4 224 52		1250
1	4 223 98	4 224 04			1	4 224 47	4 224 53		1600
1	4 223 99	4 224 05							
			Breaking capacity Icu 50 kA (400 V~)					Breaking capacity Icu 50 kA (400 V~)	
1	4 224 07	4 224 13			1	3P	4 224 55	4P	4 224 61
1		630			1		4 224 56		800
1	4 224 08	4 224 14			1	4 224 57	4 224 63		1000
1	4 224 09	4 224 15			1	4 224 58	4 224 64		1250
1	4 224 10	4 224 16			1	4 224 59	4 224 65		1600
1	4 224 11	4 224 17							
			Breaking capacity Icu 70 kA (400 V~)					Breaking capacity Icu 70 kA (400 V~)	
1	4 224 19	4 224 25			1	3P	4 224 67	4P	4 224 73
1		630			1		4 224 68		800
1	4 224 20	4 224 26			1	4 224 69	4 224 75		1000
1	4 224 21	4 224 27			1	4 224 70	4 224 76		1250
1	4 224 22	4 224 28			1	4 224 71	4 224 77		1600
1	4 224 23	4 224 29							
			Breaking capacity Icu 100 kA (400 V~)					Breaking capacity Icu 100 kA (400 V~)	
1	4 224 31	4 224 37			1	3P	4 224 79	4P	4 224 85
1		630			1		4 224 80		800
1	4 224 32	4 224 38			1	4 224 81	4 224 87		1000
1	4 224 33	4 224 39			1	4 224 82	4 224 88		1250

Dimensions
[see e-catalogue](#)

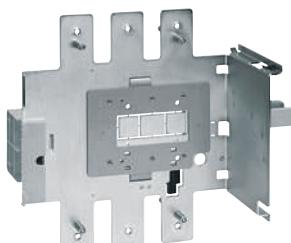


DPX³ 1600

equipment and accessories



4 225 87 + 4 222 30



4 225 94



4 222 30



0 262 60



0 262 70



0 262 67 + 0 262 68

Pack	Cat.Nos
	Draw-out version
	A DPX ³ draw-out version is a DPX ³ fitted with draw-out base and a "Debro-lift" mechanism which can be used to withdraw the DPX ³ while keeping it on its base
	Draw-out base
1	3P 4 225 86 4P 4 225 87
1	4 225 88 4 225 89
1	4 225 93 4 225 94
	Debro-lift mechanism
	For DPX ³ 1600
	To be fitted on a DPX ³ 1600 fixed version in order to obtain the movable part of a draw-out circuit breaker
	Key-lock for "Debro-lift" mechanism
	Enable locking of DPX ³ in drawn-out position
1	Flat key 0 265 76 Star key 0 263 48
1	0 265 80 0 265 79
1	0 265 75
1	0 265 74
1	4 222 30
	Accessories for "Debro-lift" mechanism
	Handle for drawing-out
	Signalling contact (plugged-in/drawn-out)
	Auxiliary contacts
	Automatic auxiliary contacts for DPX ³ draw-out version (up to 2 contacts by DPX ³)
	Supply invertor type
1	0 264 10
1	0 264 05
	Rotary handles
1	0 262 61
	Direct on DPX³
	Standard (black)
	Vari-depth handle IP 55
	Comprising: connection rod, bracket, self-adhesive drilling template, mounting accessories and door lock mechanism
1	0 262 83
1	0 262 84
1	0 262 93
1	0 262 94

Pack	Cat.Nos
	Motor-driven handles
1	0 261 54
1	0 261 24
1	0 261 25
1	0 261 26
1	0 261 23
1	0 261 19
1	0 261 28
1	0 261 29
1	0 261 27
1	0 261 59
1	0 261 58

	Accessories
1	0 262 66
1	3P 0 262 64 4P 0 262 65
1	0 262 60
1	0 262 69
1	0 262 70
1	0 262 67
1	0 262 68
1	3P 0 262 73 4P 0 262 74
1	0 263 80 0 263 82
1	0 263 81 0 263 83
1	4 225 90 4 225 91
1	4 225 92

Automation control units for supply invertors
p. 157

For the old range of accessories
for DPX 1600 draw-out version
please consult us

DPX³ 630 and 1600

common auxiliaries



4 222 42



4 222 48

Pack	Cat.Nos	Auxiliary contact or fault signal
1	4 210 11	For signalling the state of the contacts or opening of the MCCB on a fault For DPX ³ /DPX ³ -I Changeover switch 3 A - 240 V~

Shunt releases

Allow remote tripping of a DPX³ or DPX³-I 630 and DPX³ 1600
Shunt inrush power 300 VA
1 4 222 39 Coil voltage 24 V~ / =
1 4 222 40 Coil voltage 48 V~ / =
1 4 222 41 Coil voltage 110 V~ / =
1 4 222 42 Coil voltage 230 V~ / =
1 4 222 43 Coil voltage 400 V~ / =

Undervoltage releases

Allow remote tripping of a DPX³ or DPX³-I 630 and 1600
Consumption: 5 VA
1 4 222 44 Coil voltage 24 V=/
1 4 222 45 Coil voltage 24 V~
1 4 222 46 Coil voltage 48 V=/
1 4 222 47 Coil voltage 110 - 125 V~
1 4 222 48 Coil voltage 220 - 240 V~
1 4 222 49 Coil voltage 380 - 415 V~

Time-lag (800 ms) undervoltage release

Allow remote tripping of a DPX³/DPX³-I 630 or 1600
Prevents false tripping in the event of power supply microbreakers
Time-lag modules

		Number of modules
1	0 261 90	230 V~
1	0 261 91	400 V~

Release

To be equipped with a time-lag module Cat.Nos 0 261 90/91
For DPX³/DPX³-I 630 and 1600

Automation control units for supply invertors **p. 157**



Power supervision system **p. 97**

DPX³ 160, 250, 630 and 1600

power supervision system



0 261 78



0 261 56

Pack	Cat.Nos	Auxiliary power supply for DPX ³
1	4 210 83	For supplying DPX ³ electronic units when the circuit breaker is open or when the current passing through it is insufficient Input voltage 24 V~ / = 2 modules Output 250 mA: can supply several circuit breakers Consumption: - Thermal-magnetic DPX ³ with residual current protection: 42 mA - Electronic DPX ³ : 30 mA - Electronic DPX ³ with measurement: 54 mA - Electronic DPX ³ with residual current protection: 54 mA - Electronic DPX ³ with measurement: 54 mA

RS485 Modbus communication interface

DPX³ electronic interface
For connecting electronic DPX³ (except DPX³ 630 and 1600 S1 electronic releases) to an RS485 Modbus communication network
All the information managed by the circuit breaker's electronic card will be shared on the Modbus network
Dimension: 2 modules
Power supply: 24 V~ / =
RS 485 link (2-wire)
Address, speed and coding can be modified with configurator kit

		Number of modules
1	0 261 75	3
1	0 035 67	3

Modular power supply

230 V~ - 27 V= - 0.6 A
2 modules

		Number of modules
1	0 261 78	1
1	0 261 79	1

Remote communication and supervision

Energy management multi-support web servers
Allow remote configuration, test, control and visualization, via a web browser on PCs, smartphones, web viewers, tablet computers, of data collected from: protection devices (DX³ add-on modules with integrated measurement control unit, DPX³ and DMX³), EMDX³ electricity meters and multi-function measuring units and CX³ energy management system

		Number of modules
1	0 261 88	1
1	0 261 89	1

Legrand Software dedicated to measurement

For displaying the values collected from electricity meters or multi-function measuring units on a PC connected to the network
For 32 Modbus addresses or 32 pulse modules
For 255 Modbus addresses or 32 pulse modules
For 32 metering devices (supplied on CD)
For 255 metering devices (supplied on CD)

		Number of modules
1	0 261 56	1

Door mounting touch screen

Optional touch screen allowing to:
- visualize information coming from DX³, DPX³ and DMX³ protection devices and EMDX³ multi-function measuring units and
- control protection devices equipped with the universal control module Cat.No 4 149 32 (p. 92)
Can manage up to 9 devices
Power supply: 18-30 V=/
IP connection
For mounting on door or solid faceplate
Door cut: 92 x 92 mm

Residual current relay and coils



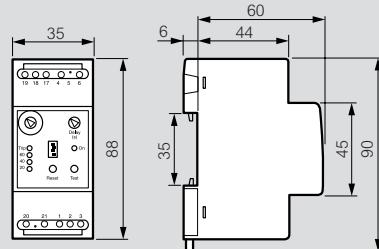
Add residual current protection to DPX³ trip-free switches and DPX³ MCCBs equipped with release

Pack	Cat.Nos	Residual current relay	Number of modules
1	0 260 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 <ul style="list-style-type: none"> • Comprises: - a tinted, 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 <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> - Ø110 to 210 mm Adjustable sensitivity: 0.3, 0.5, 0.75, 1, 1.5, 2, 3, 5, 7.5, 10, 15, 20, 30 A <ul style="list-style-type: none"> - Ø150 mm Adjustable sensitivity: 0.5, 0.75, 1, 1.5, 2, 3, 5, 7.5, 10, 15, 20, 30 A <ul style="list-style-type: none"> - Ø300 mm Adjustable sensitivity: 1, 1.5, 2, 3, 5, 7.5, 10, 15, 20, 30 A <ul style="list-style-type: none"> • Adjustable trip: 0, 0.15, 0.25, 0.5, 1, 2.5, 5 seconds • Supply voltage: 230/240 V - 50/60 Hz 	2
	0 260 92 0 260 93 0 260 94 0 260 95 0 260 96 0 260 97 0 260 98	Coils For use with residual current relay Cat.No 0 260 88 1 coil per DPX ³ Coil Ø35 mm Coil Ø80 mm Coil Ø110 mm Coil Ø140 mm Coil Ø210 mm Coil Ø150 mm - open Coil Ø310 mm - open	

Residual current relay and coils

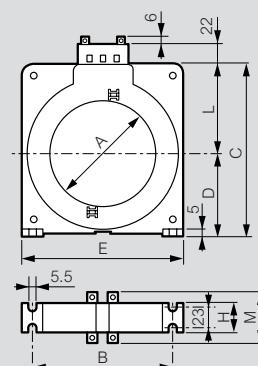
Residual current relay

Cat.No 0 260 88



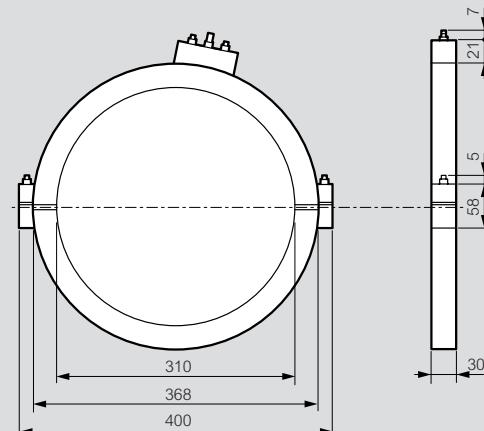
Coils

Cat.Nos 0 260 92/93/94/95/96 Cat.No 0 260 97



Cat.Nos	A	B	C	D	E	H	L	M
0 260 92	35	75	85	42	92	36	43	56
0 260 93	80	108	132	67	125	36	65	56
0 260 94	110	148	170	86	165	36	84	56
0 260 95	140	177	206	104	200	36	102	56
0 260 96	210	270	295	150	290	44	145	64
0 260 97	150	225	259	133	245	275	95	113

Cat.No 0 260 98



Air circuit breakers DMX³ 1600

from 630 to 1600 A



0 280 28 + 0 281 66

Dimensions [see e-catalogue](#)
 Electrical characteristics [see e-catalogue](#)

Automatic air circuit breakers must be equipped with DMX³ 1600 electronic protection units Cat.No 0 281 64/65/66, imperatively ordered together for factory assembly
 Please ask for DMX³ order form

Pack	Cat.Nos	
		Fixed version
		Supplied with: - 4 auxiliary contacts: NO/NC - rear orientable terminals for horizontal and vertical connection with bars - door sealing
		Breaking capacity Icu 42 kA (415 V\sim)
1	0 280 00	Frame 1600 3P 4P In (A) 630
1	0 280 01	800
1	0 280 02	1000
1	0 280 03	1250
1	0 280 04	1600
		Breaking capacity Icu 50 kA (415 V\sim)
1	0 280 24	630
1	0 280 25	800
1	0 280 26	1000
1	0 280 27	1250
1	0 280 28	1600

Pack	Cat.Nos	
		Draw-out version
		Supplied with: - 4 auxiliary contacts: NO/NC - draw-out base and kit - rear orientable terminals for horizontal and vertical connection with bars - door sealing
		Breaking capacity Icu 42 kA (415 V\sim)
1	0 280 12	Frame 1600 3P 4P In (A) 630
1	0 280 13	800
1	0 280 14	1000
1	0 280 15	1250
1	0 280 16	1600
		Breaking capacity Icu 50 kA (415 V\sim)
1	0 280 36	630
1	0 280 37	800
1	0 280 38	1000
1	0 280 39	1250
1	0 280 40	1600



DMX³ 1600 electronic protection units



0 281 65



0 281 72

Dimensions [see e-catalogue](#)
 Settings and curves [see e-catalogue](#)

DMX³ circuit breakers must be equipped with electronic protection units (to be ordered together for factory assembly) enabling very precise adjustments of the protection conditions, while maintaining total discrimination with downstream devices

Pack	Cat.Nos	MP4 protection units with LCD screen
1	0 281 64	Integrated LCD screen for displaying electrical values, settings and log Adjustment via selector switches
1	0 281 65	L protection unit Adjustment of: I _i , I _r , t _r
1	0 281 66	LSI protection unit Adjustment of: I _{sd} , t _{sd} , I _r , t _r and I _i
1	0 281 70 ¹	LSig protection unit Adjustment of: I _{sd} , t _{sd} , I _r , t _r , I _i , I _g and t _g
1	0 281 72 ¹	Accessories for electronic protection units
1	0 281 71 ¹	Communication option for DMX ³ electronic protection units
1	0 281 99 ¹	External auxiliary power supply (input 230 V AC)
1	0 281 99 ¹	External neutral for DMX ³ 1600
1	0 281 99 ¹	Programmable output option

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



Dimensions
[see e-catalogue](#)



Trip free switches DMX³-I 1600

from 1000 to 1600 A



0 280 52

Dimensions see e-catalogue

Pack	Cat.Nos
1	Frame 1600 3P 4P In (A) 0 280 50 0 280 56 1000
1	0 280 51 0 280 57 1250
1	0 280 52 0 280 58 1600

Fixed version

Supplied with:

- 4 auxiliary contacts: NO/NC
- rear orientable terminals for horizontal and vertical connection with bars
- door sealing

	Cat.Nos
1	Frame 1600 3P 4P In (A) 0 280 62 0 280 68 1000
1	0 280 63 0 280 69 1250
1	0 280 64 0 280 70 1600

Draw-out version

Supplied with:

- 4 auxiliary contacts: NO/NC
- draw-out base and kit
- rear orientable terminals for horizontal and vertical connection with bars
- door sealing

Trip free switches DMX³-I 1600

from 1000 to 1600 A

Dimensions see e-catalogue



Technical characteristics

Trip free switch DMX ³ -I		1600
Frame		1600
Rating In at 40°/50° C (A)		1000 1250 1600
Rated insulation voltage Ui (V)		1000
Rated impulse withstand voltage Uimp (kV)		12
Rated operational voltage (50/60Hz) Ue (V)		690
Category of use		AC23A
Isolation behaviour		Yes
Short-circuit making capacity Icm (kA)	220 / 240 V~ 380 / 415 V~ 440 / 460 V~ 480 / 500 V~ 600 V~ 690 V~	105 105 105 105 88 88
Short time withstand current Icw (kA) pour t = 1 s	220 / 240 V~ 380 / 415 V~ 440 / 460 V~ 480 / 500 V~ 600 V~ 690 V~	50 50 50 50 42 42
Endurance (cycles)	mechanical without maintenance mechanical with maintenance electrical	5000 10000 1500 at 690 V / 3000 at 415 V
Temperature	operation storage	-5°C to +70°C -25°C to +85°C

Temperature derating

Fixed / draw-out version

	Temperature									
	40°C		50°C		60°C		65°C		70°C	
	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n
DMX ³ -I 1600	1000	1	1000	1	1000	1	1000	1	1000	0.95
	1250	1	1250	1	1250	1	1187	0.95	1125	0.9
	1600	1	1600	1	1328	0.83	1280	0.8	1216	0.76



0 281 39



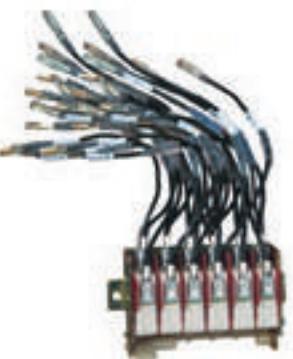
0 281 23



0 281 78



0 281 81



0 281 75

Pack	Cat.Nos	Control and signalling auxiliaries
		Shunt trip When energised the circuit breaker will be tripped
1	0 281 31	24 V~/=
1	0 281 32	48 V~/=
1	0 281 33	110 - 130 V~/=
1	0 281 34	220 - 250 V~/=
1	0 281 35	415 - 440 V~
		Undervoltage releases When the coil is de-energised, the circuit breaker will be tripped
1	0 281 36	24 V~/=
1	0 281 37	48 V~/=
1	0 281 38	110 - 130 V~/=
1	0 281 39	220 - 250 V~/=
1	0 281 40	415 - 440 V~
		Module for delayed tripping To be used with above undervoltage releases
1	0 281 41	110 V~/= (time delay 1s)
1	0 281 42	230 V~/= (time delay 1s)
1	0 281 43	110 V~/= (time delay 3s)
1	0 281 44	230 V~/= (time delay 3s)
1	0 281 45	110 V~/= (time delay 5s)
1	0 281 46	230 V~/= (time delay 5s)
		Motor operators To motorize a DMX ³ , it is possible to attach, to the motor operators, a release coil (undervoltage or trip on energising) and a closing coil
1	0 281 20	24 V~/=
1	0 281 21	48 V~/=
1	0 281 22	110 - 130 V~/=
1	0 281 23	220 - 250 V~/=
1	0 281 24	415 - 440 V~
		Closing coils Enables remote closing of the circuit breaker if the closing spring is charged
1	0 281 26	24 V~/=
1	0 281 27	48 V~/=
1	0 281 28	110 - 130 V~/=
1	0 281 29	220 - 250 V~/=
1	0 281 30	415 - 440 V~
		Signalling contact for draw-out version Inserted / test / draw-out signalling contact 1 changeover contact per position (up to 2 contacts with double accessory if the safety button for test position cat no. 0 281 87 is not mounted)
1	0 281 73	

Pack	Cat.Nos	Locking
		Key locking in «open» position
1	0 281 78	1 lock + 1 Ronis type flat key (n° ABA90GEL6149) random
1	0 281 79	1 lock + 1 Ronis type flat key (n° ABA90GEL6149) fixed (cod. EL43525)
1	0 281 80	1 lock + 1 Ronis type flat key (n° ABA90GEL6149) fixed (cod. EL43363)
1	0 281 81	1 lock + 1 Profalux type star key (n° HBA90GPS6149) random
		Key locking in the draw-out position
1	0 281 82	1 lock + 1 Profalux type star key (n° HBA90GPS6149) random
1	0 281 83	1 lock + 1 Ronis type flat key (n° ABA90GEL6149) random

Pack	Cat.Nos	Locking (continued)
1	0 281 84	Door locking Prevents opening of the door with the circuit breaker closed Left-hand and right-hand side mounting
1	0 281 77	Padlock Padlock for buttons
1	0 281 88	Accessories Mechanical counter Counts total number of operation cycles of the device
1	0 281 74	Contact «ready to close» with charged springs
1	0 281 75	Module with 6 auxiliary contacts
1	0 281 87	Inserted/test/draw-out lock button
1	0 281 89	Rating mis-insertion device Prevents the insertion of a draw-out circuit breaker in an incompatible base
1	3P 0 281 55 4P 0 281 56	Front terminals For DMX³ Frame 1600 fixed and draw-out versions For frontal connection

3P 0 281 59 4P 0 281 60	Spreaders for DMX³ Frame 1600 fixed and draw-out versions To be fixed onto orientable rear terminals of the circuit breaker For connection with bars (horizontal use)
---------------------------	---

3P 0 281 49 4P 0 281 50	Insulation shields For fixed version For DMX ³ /DMX ³ -I Frame 1600
3P 0 281 51 4P 0 281 52	For draw-out version For DMX ³ /DMX ³ -I Frame 1600

Supply invertors equipment for DMX³ 1600

N

Supply invertors equipment for DMX³ 1600 - Installation principle



0 289 20



Technical characteristics see e-catalogue

Pack	Cat.Nos
1	0 281 90

Equipment for supply invertors

The mechanical interlock is set up using cables and can interlock devices, which may be different type in a vertical or horizontal configuration. The interlock unit is mounted on the right-hand side of the device. Cable interlock to be ordered separately (cable length to be specified according to every configuration - see below). Interlock for DMX³ frame 1600.

Cable interlock

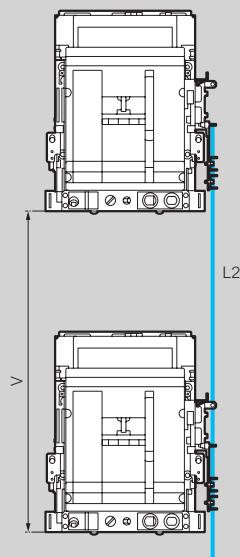
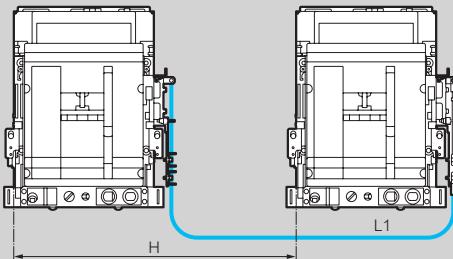
Length

1	0 289 17	1000 mm
1	0 289 18	1500 mm
1	0 289 20	2600 mm
1	0 289 21	3000 mm
1	0 289 22	3600 mm
1	0 289 23	4000 mm
1	0 289 24	4600 mm
1	0 289 25	5600 mm

Automation control units for supply invertors p. 157



Choice of cable interlock

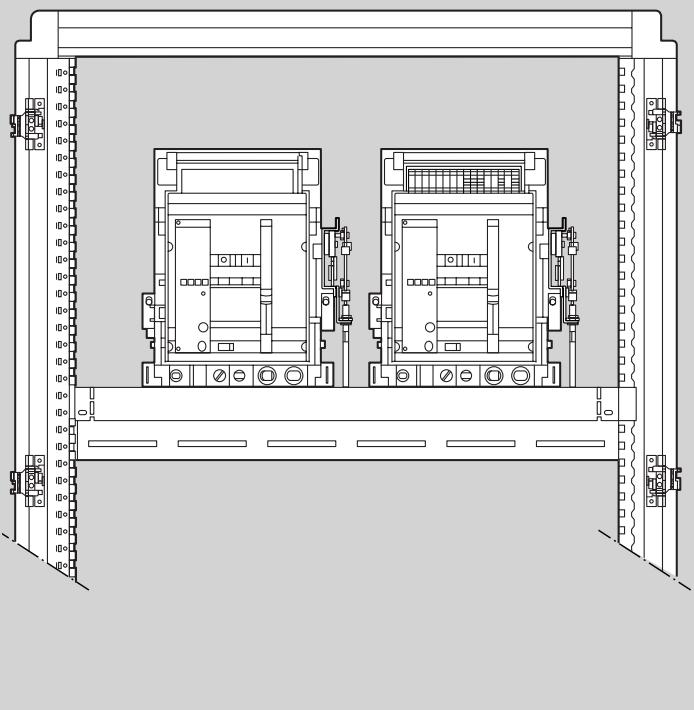


Calculation of cable length:
 $L_1 = 550 + H$
 $L_2 = 950 + V$

Installation principle

For XL³ 4000 - 36 modules

2 DMX³ / DMX³-I can be installed side by side on the same fixing plate.



Air circuit breakers DMX³ 2500 and 4000

from 800 to 4000 A



0 286 56 + 0 288 02 (p. 153)



0 286 74 + 0 288 02 (p. 153)



0 287 56 + 0 288 02 (p. 153)

Dimensions [see e-catalogue](#)
Electrical characteristics [see e-catalogue](#)

Automatic air circuit breakers must be equipped with electronic protection unit (p. 153), imperatively ordered together for factory assembly
Please ask for DMX³ order form

Pack	Cat.Nos	Fixed version	Pack	Cat.Nos	Draw-out version
		Supplied with: - 4 auxiliary contacts: NO/NC - rear terminals for horizontal connection with bars - door sealing DMX³ - N 2500 Breaking capacity Icu 50 kA (415 V~)			Supplied with: - 4 auxiliary contacts: NO/NC - draw-out base and kit - flat rear terminals for connection with bars - door sealing DMX³ - N 2500 Breaking capacity Icu 50 kA (415 V~)
1	0 286 21	Frame 2500 3P 4P In(A) 800	1	0 287 21	Frame 2500 3P 4P In(A) 800
1	0 286 22	0 286 31 1000	1	0 287 22	0 287 31 1000
1	0 286 23	0 286 32 1250	1	0 287 23	0 287 32 1250
1	0 286 24	0 286 33 1600	1	0 287 24	0 287 33 1600
1	0 286 25	0 286 34 2000	1	0 287 25	0 287 34 2000
1	0 286 26	0 286 35 2500	1	0 287 26	0 287 35 2500
		DMX³ - H 2500 Breaking capacity Icu 65 kA (415 V~)			DMX³ - H 2500 Breaking capacity Icu 65 kA (415 V~)
1	0 286 41	Frame 2500 3P 4P In(A) 800	1	0 287 41	Frame 2500 3P 4P In(A) 800
1	0 286 42	0 286 51 1000	1	0 287 42	0 287 51 1000
1	0 286 43	0 286 52 1250	1	0 287 43	0 287 52 1250
1	0 286 44	0 286 53 1600	1	0 287 44	0 287 53 1600
1	0 286 45	0 286 54 2000	1	0 287 45	0 287 54 2000
1	0 286 46	0 286 55 2500	1	0 287 46	0 287 55 2500
		DMX³ - L 2500 Breaking capacity Icu 100 kA (415 V~)			DMX³ - L 2500 Breaking capacity Icu 100 kA (415 V~)
1	0 286 61	Frame 4000 3P 4P In(A) 800	1	0 287 61	Frame 4000 3P 4P In(A) 800
1	0 286 62	0 286 71 1000	1	0 287 62	0 287 71 1000
1	0 286 63	0 286 72 1250	1	0 287 63	0 287 72 1250
1	0 286 64	0 286 73 1600	1	0 287 64	0 287 73 1600
1	0 286 65	0 286 74 2000	1	0 287 65	0 287 74 2000
1	0 286 66	0 286 75 2500	1	0 287 66	0 287 75 2500
		DMX³ - N 4000 Breaking capacity Icu 50 kA (415 V~)			DMX³ - N 4000 Breaking capacity Icu 50 kA (415 V~)
1	0 286 27	Frame 4000 3P 4P In(A) 3200	1	0 287 27	Frame 4000 3P 4P In(A) 3200
1	0 286 28	0 286 37 4000	1	0 287 28	0 287 37 4000
		DMX³ - H 4000 Breaking capacity Icu 65 kA (415 V~)			DMX³ - H 4000 Breaking capacity Icu 65 kA (415 V~)
1	0 286 47	Frame 4000 3P 4P In(A) 3200	1	0 287 47	Frame 4000 3P 4P In(A) 3200
1	0 286 48	0 286 57 4000	1	0 287 48	0 287 57 4000
		DMX³ - L 4000 Breaking capacity Icu 100 kA (415 V~)			DMX³ - L 4000 Breaking capacity Icu 100 kA (415 V~)
1	0 286 67	Frame 4000 3P 4P In(A) 3200	1	0 287 67	Frame 4000 3P 4P In(A) 3200
1	0 286 68	0 286 77 4000	1	0 287 68	0 287 77 4000

Air circuit breakers DMX³ 6300

5000 and 6300 A



0 289 51 + 0 288 02

Dimensions [see e-catalogue](#)
Electrical characteristics [see e-catalogue](#)

Automatic air circuit breakers must be equipped with electronic protection unit, imperatively ordered together for factory assembly
Please ask for DMX³ order form

Pack	Cat.Nos	Fixed version
		Supplied with: - 4 auxiliary contacts: NO/NC - rear terminals for horizontal connection with bars - door sealing
1	0 289 50 0 289 60	DMX³ - L 6300 Breaking capacity Icu 100 kA (415 V~) In(A) 5000 6300
1	0 289 51 0 289 61	

Pack	Cat.Nos	Draw-out version
		Supplied with: - 4 auxiliary contacts: NO/NC - draw-out base and kit - flat rear terminals for connection with bars - door sealing
1	0 289 52 0 289 62	DMX³ - L 6300 Breaking capacity Icu 100 kA (415 V~) In(A) 5000 6300
1	0 289 53 0 289 63	

Electronic protection units for DMX³ 2500, 4000 and 6300



0 288 02

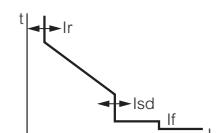
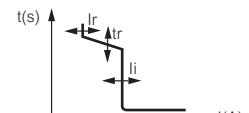
0 288 03

Dimensions [see e-catalogue](#)
Settings and curves [see e-catalogue](#)

DMX³ circuit breakers must be equipped with electronic protection units (to be ordered together for factory assembly) enabling very precise adjustments of the protection conditions, while maintaining total discrimination with downstream devices

All protection units are equipped with batteries for powering in case of mains fault or when the breaker is open or not connected

Pack	Cat.Nos	MP4 protection units with LCD screen
1	0 288 00	LI protection unit Adjustment of: I _i , I _r , t _r
1	0 288 01	L_{SI} protection unit Adjustment of: I _{sd} , t _{sd} , I _r , t _r and I _i
1	0 288 02	L_{SIG} protection unit Adjustment of: I _{sd} , t _{sd} , I _r , t _r , I _i , I _g and t _g



MP6 touch screen protection units

Measure and display instantaneous, maximum and average values of different electrical values and protection conditions
Fault signalling and log

Pack	Cat.Nos	Accessories for electronic protection units
1	0 288 03 ¹	Communication option for DMX ³ electronic protection units
1	0 288 06	24 V DC external auxiliary power supply
1	0 288 10 ¹	External neutral for DMX ³ 6300
1	0 288 11 ¹	External neutral for DMX ³ 2500 and 4000
1	0 288 12 ¹	Module programmable output

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

Dimensions of DMX³ range,
[see e-catalogue](#)



Trip free switches DMX³-I

from 1250 to 6300 A



0 286 96



0 287 96

Dimensions see e-catalogue

Pack	Cat.Nos	Fixed version
		Supplied with: - 4 auxiliary contacts: NO/NC - flat rear terminals for connection with bars - door sealing
		DMX³-I 2500
		Frame 2500
1	0 286 83 0 286 93	In(A) 1250
1	0 286 84 0 286 94	1600
1	0 286 85 0 286 95	2000
1	0 286 86 0 286 96	2500
		Frame 4000
1	0 286 87 0 286 97	In(A) 3200
1	0 286 88 0 286 98	4000
		DMX³-I 4000
		Frame 6300
1	0 289 70 0 289 71	In(A) 6300

Pack	Cat.Nos	Draw-out version
		Supplied with: - 4 auxiliary contacts: NO/NC - draw-out base and kit - flat rear terminals for connection with bars - door sealing
		DMX³-I 2500
		Frame 2500
1	0 287 83 0 287 93	In(A) 1250
1	0 287 84 0 287 94	1600
1	0 287 85 0 287 95	2000
1	0 287 86 0 287 96	2500
		DMX³-I 4000
		Frame 4000
1	0 287 87 0 287 97	In(A) 3200
1	0 287 88 0 287 98	4000
		DMX³-I 6300
		Frame 6300
1	0 289 77 0 289 78	In(A) 6300

Dimensions of DMX³-I range,
see e-catalogue



Trip free switches DMX³-I

from 1250 to 6300 A

Technical characteristics

Trip free switch DMX ³ -I	2500	4000	6300	
Frame	2500	4000	6300	
Rating In à 40° C (A)	1250 1600 2000 2500	3200 4000	6300	
Rated insulation voltage Ui (V)	1000	1000	1000	
Rated impulse withstand voltage Uimp (kV)	12	12	12	
Rated operational voltage (50/60Hz) Ue (V)	690	690	690	
Isolation behaviour	Yes	Yes	Yes	
Short-circuit making capacity Icm (kA)	230 V~ 415 V~ 500 V~ 600 V~ 690 V~	143 143 143 132 121	220 220 220 165 143	220 220 220 165 143
Short time withstand current Icw (kA) pour t = 1 s	230 V~ 415 V~ 500 V~ 600 V~ 690 V~	65 65 65 60 55	85 85 85 75 65	100 100 100 75 65
Endurance (cycles)	mechanical	10000	10000	5000
	electrical	5000	5000	2500
Temperature	operation	-5°C to +70°C	-5°C to +70°C	-5°C to +70°C
	storage	-25°C to +85°C	-25°C to +85°C	-25°C to +85°C

Temperature derating

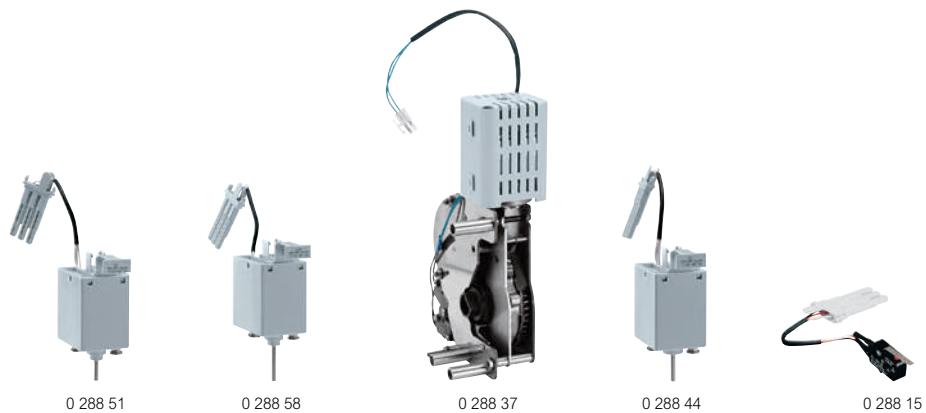
Fixed version

	Temperature									
	40°C		50°C		60°C		65°C		70°C	
	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n
DMX³-I 2500	1250	1	1250	1	1250	1	1250	1	1250	1
	1600	1	1600	1	1600	1	1600	1	1600	1
	2000	1	2000	1	1960	0.98	1920	0.96	1880	0.94
	2500	1	2450	0.98	2350	0.94	2250	0.9	2150	0.86
DMX³-I 4000	3200	1	3200	1	3200	1	3136	0.98	3008	0.94
	4000	1	3920	0.98	3680	0.92	3440	0.86	3120	0.78
DMX³-I 6300	6300	1	6300	1	6048	0.96	5796	0.92	5544	0.88

Draw-out version

	Temperature									
	40°C		50°C		60°C		65°C		70°C	
	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n
DMX³-I 2500	1250	1	1250	1	1250	1	1250	1	1250	1
	1600	1	1600	1	1600	1	1600	1	1600	1
	2000	1	2000	1	1960	0.98	1920	0.96	1875	0.94
	2500	1	2400	0.96	2250	0.9	2100	0.84	1950	0.78
DMX³-I 4000	3200	1	3200	1	3200	1	3072	0.96	2880	0.9
	4000	1	3760	0.94	3440	0.86	3200	0.8	2960	0.74
DMX³-I 6300	6300	1	6174	0.98	5985	0.95	5796	0.92	5292	0.84

Auxiliaries and accessories for DMX³ 2500, 4000 and 6300



Pack	Cat.Nos	Control and signalling auxiliaries	Pack	Cat.Nos	Locking
		Shunt trip When energised the circuit breaker will be tripped	1	0 288 30	Key locking in "open" position Lock and star key N° HBA90GPS6149 - to be fitted on the frame Cat.No 0 288 28
1	0 288 48	24 V~/=	1	0 288 31	Lock and flat key N° ABA90GEL6149 - to be fitted on the frame Cat.No 0 288 28
1	0 288 49	48 V~/=	1	0 288 28	2 hole support frame for locks
1	0 288 50	110 - 130 V~/=	1	0 288 29	Cat.Nos 0 288 30/31 Set of 5 key barrels with flat key
1	0 288 51	220 - 250 V~/=			
1	0 288 52	415 - 480 V~	1	0 288 32	Key locking in the draw-out position Mounting of the lock on the base
		Undervoltage releases When the coil is de-energised, the circuit breaker will be tripped	1	0 288 33	Lock and star key N° HBA90GPS6149 Lock and flat key N° ABA90GEL6149
1	0 288 55	24 V~/=			
1	0 288 56	48 V~/=	1	0 288 20	Door locking Prevents opening of the door with the circuit breaker closed Left-hand and right-hand side mounting
1	0 288 57	110 - 130 V~/=			
1	0 288 58	220 - 250 V~/=	1	0 288 21	Padlocks in "open" position Padlocking system for ACB (padlock not supplied)
1	0 288 59	415 - 480 V~	1	0 288 24	Padlock for buttons
		Module for delayed tripping To be used with above undervoltage releases	1	0 288 26	Padlocking system for shutters (padlock not supplied)
1	0 288 62	110 V~/=			
1	0 288 63	230 V~/=			
		Motor operators To motorize a DMX, it is possible to attach, to the motor operators, a release coil (undervoltage or trip on energising) and a closing coil			
1	0 288 34	24 V~/=			
1	0 288 35	48 V~/=			
1	0 288 36	110 - 130 V~/=			
1	0 288 37	220 - 250 V~/=			
1	0 288 38	415 - 440 V~			
1	0 288 40	480 V~/=			
		Closing coils Enables remote closing of the circuit breaker if the closing spring is charged			
1	0 288 41	24 V~/=			
1	0 288 42	48 V~/=			
1	0 288 43	110 - 130 V~/=			
1	0 288 44	220 - 250 V~/=			
1	0 288 45	415 - 480 V~			
		Signalling contact for auxiliaries Signalling contact for shunt trips, undervoltage releases and closing coils			
1	0 288 16				
		Signalling contact for draw-out version Inserted / test / draw-out signalling contact 3 changeover contacts per position			
1	0 288 13				
					Equipment for conversion of a fixed device into draw-out device
					Bases for draw-out device For DMX ³ /DMX ³ -I frame 2500 For DMX ³ /DMX ³ -I frame 4000 For DMX ³ /DMX ³ -I frame 6300
					Transformation kit for draw-out version For DMX ³ /DMX ³ -I frame 2500 For DMX ³ /DMX ³ -I frame 4000 For DMX ³ /DMX ³ -I frame 6300
					Accessories
			1	0 288 25	Rating mis-insertion device Prevents the insertion of a draw-out circuit breaker in an incompatible base
			1	0 288 23	Operations counter Counts total number of operation cycles of the device
			1	0 288 14	Contact "ready to close" with charged springs
			1	0 288 15	Additional signalling contact Lifting plate
			1	0 288 79	

Rear terminals for DMX³ 2500, 4000 and 6300



Dimensions [see e-catalogue](#)

Pack	Cat.Nos		Rear terminals
1	3P 0 288 84	4P 0 288 85	For DMX³ frame 2500 fixed version For flat connection with bars To be fixed onto horizontal rear terminals of the circuit breaker
1	0 288 82	0 288 83	For vertical connection with bars Those terminals are used in order to transform a flat connection into a vertical one To be fixed onto Cat.Nos 0 288 84/85 according to the number of poles
1	0 288 96	0 288 97	For DMX³ frame 2500 draw-out version For vertical or horizontal connection with bars To be fixed onto plate rear terminals of the circuit breaker
1	0 288 92	0 288 93	For DMX³ frame 4000 and 6300 fixed version For flat connection with bars To be fixed onto horizontal rear terminals of the circuit breaker 2 sets are required for frame 6300
1	0 288 94	0 288 95	For DMX³ frame 4000 and 6300 fixed or draw-out version On DMX ³ fixed version: - For vertical connection with bars - To be fixed onto Cat.Nos 0 288 92/93 according to the number of poles On DMX ³ draw-out version: - For vertical or horizontal connection with bars - To be fixed directly onto plate rear terminals of the circuit breaker 2 sets are required for frame 6300
			Spreaders for DMX³ frame 2500 fixed version To be fixed onto horizontal rear terminals of the circuit breaker
1	3P 0 288 86	4P 0 288 87	For flat connection with bars
1	0 288 88	0 288 89	For vertical connection with bars
1	0 288 90	0 288 91	For horizontal connection with bars

Supply invertors equipment for DMX³ 2500, 4000 and 6300



Technical characteristics [see e-catalogue](#)

Pack	Cat.Nos	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 is mounted on the right-hand side of the device
1	0 288 64	Cable interlock to be ordered separately (cable lenght to be specified according to every configuration - see below)
1	0 288 65	Interlock for DMX ³ frame 2500
1	0 288 66	Interlock for DMX ³ frame 4000
		Interlock for DMX ³ frame 6300
		Cable interlock
1	0 289 17	Length
1	0 289 18	1000 mm
1	0 289 20	1500 mm
1	0 289 21	2600 mm
1	0 289 22	3000 mm
1	0 289 23	3600 mm
1	0 289 24	4000 mm
1	0 289 25	4600 mm
		5600 mm

CTX³ 3-pole contactors
[p. 178](#)

Power supervision system
[p. 97](#)

Automation control units for supply invertors

N



4 226 82

4 226 83

4 226 86

Technical characteristics and configuration software
see e-catalogue

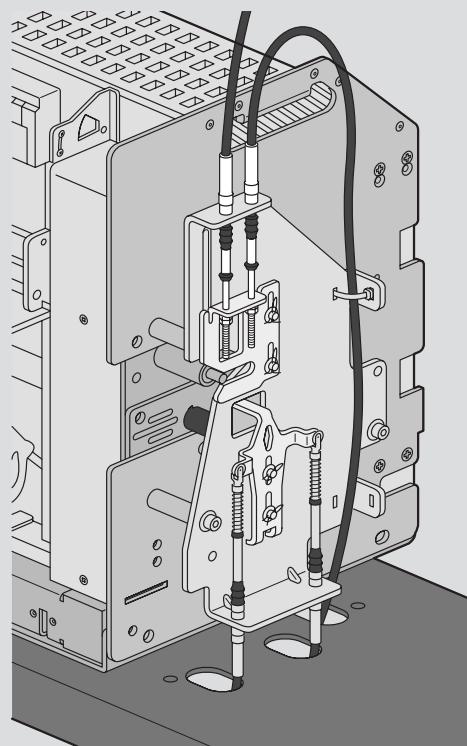
They can control power supply inversion between two sources, manage generator start/stop, control single phase, two-phase and three-phase networks, control phase-phase and phase-neutral voltages
For DPX³ and DMX³ circuit breakers and CTX³ contactors

Pack	Cat.Nos	Automation control units
1	4 226 80	For standard management of 2 circuit breakers 6 programmable digital inputs and 6 programmable relay outputs Digital display Power supply: 12...48 V _{DC} IP54
1	4 226 82 ¹	For advanced management of 2 circuit breakers 6 programmable digital inputs and 7 programmable relay outputs Can be equipped with maximum 2 plug-in modules between: - extension modules Cat.No 4 226 90/91/92 - opto-isolated RS485 communication interface Cat.No 4 226 89 LCD display IR communication port on the front panel for connection of USB or WiFi modules Cat.No 4 226 87/88 Can be configured with the help of front panel touch keys or of the Legrand dedicated software Power supply: 12-24 V _{DC} ; 110-240 V _{AC} IP40
1	4 226 83 ¹	For advanced management of 3 circuit breakers 8 programmable digital inputs and 7 programmable relay outputs Can be equipped with maximum 3 plug-in extension modules between Cat.No 4 226 90/91/92 Integrated opto-isolated RS485 communication interface LCD display IR communication port on the front panel for connection of USB or WiFi modules Cat.No 4 226 87/88 Can be configured with the help of front panel touch keys or of the Legrand dedicated software Power supply: 12-24-48 V _{DC} ; 110-240 V _{AC} IP65
1	4 226 86	Dual power supply selector Dual power supply selector measures and controls two supply voltages at its inputs (single phase, 80-300 V _{AC}) and selects the most adapted voltage for auxiliary circuits supply Equipped with 1 alarm contact, if no supply voltage can be selected within the limits
1	4 226 89	Plug-in modules Opto-isolated RS485 interface
1	4 226 90	4 opto-isolated static outputs
1	4 226 91	2 relay outputs, rated 5 A 250 V _{AC}
1	4 226 92	2 opto-isolated digital inputs and 2 relay outputs rated 5 A 250 V _{AC}
1	4 226 87 ¹	Accessories USB front connector for programming the automation control units or downloading the event log via PC (equipped with dedicated Legrand software)
1	4 226 88 ¹	WiFi front connector for programming the automation control units or downloading the event log via PC, smartphone or tablet (equipped with dedicated Legrand software)

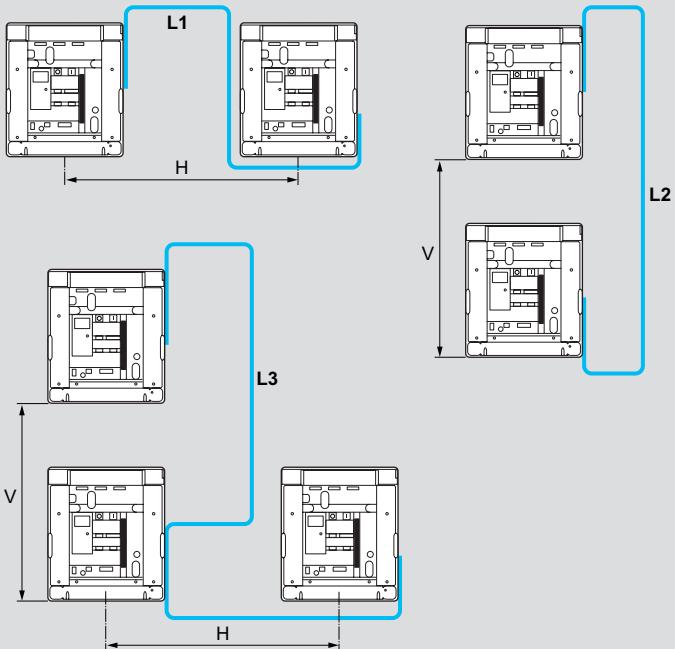
1: Programming software available for download via E-catalogue;
App for smartphone & tablet available on Apple Store and Google Play

Supply invertors equipment for DMX³ 2500, 4000 and 6300 – Installation principle

Mounting of interlock unit



Choice of cable interlock



Calculation of cable length:

$$\begin{aligned} L1 &= 1430 + H \\ L2 &= 1570 + V \\ L3 &= 1430 + V + H \end{aligned}$$

Vistop™ isolating switches

32 to 160 A



0 225 05



0 225 15

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 0 227 97 (p. 65)

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 or external (for Vistop 63 to 160 A)

Pack	Cat.Nos		32 A	
	Front handle	Side handle		
1	0 224 98	0 225 03	2P	Connection No of 17.5 mm modules 4 + 3.5
1	0 225 00	0 225 05	3P	16 mm ² cage terminals 4 + 3.5
1	0 225 02	0 225 07	4P	5 + 4.5

63 to 160 A

Possibility to add auxiliary contact
Cat.No 0 227 07

	Front handle		Side handle		32 A			
	0 225 12	0 225 16	0 225 15	0 225 18	3P	Connection cage terminals	No of 17.5 mm modules	
1	0 225 12	0 225 16	0 225 15	0 225 18	4P		7	
1	0 225 20	0 225 25	0 225 22	0 225 27	3P	key	7.5	
1	0 225 20	0 225 25	0 225 22	0 225 27	4P	6 sides	9	
1	0 225 34	0 225 44	0 225 39	0 225 46	3P	key	7.5	
1	0 225 34	0 225 44	0 225 39	0 225 46	4P	6 sides	9	
1	0 225 51	0 225 54	0 225 53	0 225 56	3P	key	7.5	
1	0 225 51	0 225 54	0 225 53	0 225 56	4P	6 sides	9	

Accessories

Front external handle for Vistop 63 to 160 A

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
Door distance 35 to 470 mm

Auxiliary signalling contacts

IP 2X - 5 A - 250 V
To be fitted inside Vistop isolating switches
Main contact NO + NC
Additional contact NO + NC
To be fitted on main contact
Cat.No 0 227 04 in order to obtain 2 NO + 2 NC

1	0 227 32	Connection (mm ²)	
1	0 227 04	lug 2.58	
1	0 227 07	lug 2.58	

For detailed dimensions,
see e-catalogue



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)

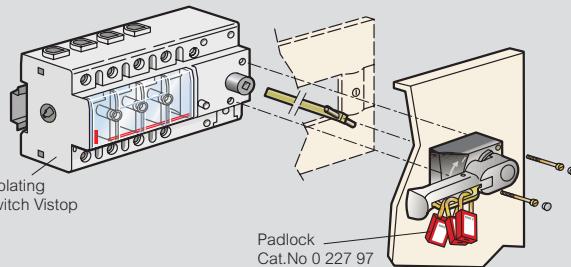
Handle can be padlocked in open position using 1 to 3 padlocks Ø6 mm

Electrical characteristics

Thermal rating (I _{th})	32 A	63 A	100 A	125 A	160 A
Terminals	cage	cage	cage	cage	cage
Connection	Cu (flexible) Cu (rigid)	4 to 35 ² 4 to 50 ²		4 to 35 ² 4 to 70 ²	
Insulating voltage (Ui)	690 V~	690 V~	690 V~	690 V~	800 V~
Impulse resistant voltage (U _{imp})	8 kV	8 kV	8 kV	8 kV	8 kV
AC 22 A ⁽¹⁾	400 V	32 A (17 kW) 63 A (35 kW)	100 A (55 kW) 125 A (70 kW)	160 A (88 kW)	
AC 23 A ⁽¹⁾	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 (I _{cu}) (kA peak)	5	15	15	15	15
1 s resistant current (kA rms) (I _{cw})	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) (I _{cm})	0.75	7	12	12	12
Mechanical endurance (No of operations)	> 10000	> 30000	> 30000	> 30000	> 30000
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

Front external handle
Cat.No 0 227 32



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

DPX™-IS 250 isolating switches

63 to 250 A



0 266 37

0 266 47

Dimensions [see e-catalogue](#)
Electrical characteristics [p. 162](#)

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 electrical auxiliaries (p. 161)

Can be mounted on rail or on plate in XL³ enclosures

Pack	Cat.Nos	
	DPX-IS with release	
	Can be associated with a residual current relay with separate coils (p. 147), supplied without shunt trip	
1	0 266 30 0 266 34	3P 4P Front handle 63 A
1	0 266 31 0 266 35	100 A
1	0 266 32 0 266 36	160 A
1	0 266 33 0 266 37	250 A
1	0 266 40 0 266 44	Right-hand side handle 63 A
1	0 266 41 0 266 45	100 A
1	0 266 42 0 266 46	160 A
1	0 266 43 0 266 47	250 A
1	0 266 50 0 266 54	Left-hand side handle 63 A
1	0 266 51 0 266 55	100 A
1	0 266 52 0 266 56	160 A
1	0 266 53 0 266 57	250 A
	DPX-IS without release	
1	0 266 02 0 266 06	3P 4P Front handle 160 A
1	0 266 03 0 266 07	250 A
1	0 266 12 0 266 16	Right-hand side handle 160 A
1	0 266 13 0 266 17	250 A
1	0 266 22 0 266 26	Left-hand side handle 160 A
1	0 266 23 0 266 27	250 A
	Mounting on rail 	
1	0 262 39	
	Rail fixing plate	
	For DPX-IS 250	
	Rotary handles	
1	0 266 89 0 266 90	
1	Direct for emergency use	
	For mounting instead of standard handle	
	Front and right-hand side handle	
	Left-hand side handle	
1	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)	
	For front and side handle device	
	For front and side handle device for emergency use	
	To be ordered with Cat.Nos 0 266 89 or 0 266 90	

Pack	Cat.Nos	Accessories
1	0 262 881	Cage terminals Set of 4
1	0 273 22	Spreaders Set of upstream and downstream spreaders
1	0 265 10 0 265 11	Rear terminals Used to convert the fixed version with front terminals to the fixed version with rear terminals Set of upstream and downstream rear terminals
1	0 262 87	Terminal shields Set of 2
1	0 266 92	Padlock For locking mechanism in open position (factory assembled) Padlock with flat key N° ABA90GEL6149
1	0 266 94	Interlock Provides closing of 2 devices at the same time (factory assembled)

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

For detailed dimensions,
[see e-catalogue](#)



XL³ mounting accessories,
[p. 218, 226, 236](#)



DPX™-IS 630 isolating switches

400 to 630 A



0 266 62



0 266 70



0 262 50



0 266 97

Dimensions [see e-catalogue](#)
Electrical characteristics [p. 162](#)

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 electrical auxiliaries (p. 161)

Can be mounted on plate in XL³ enclosures

Pack	Cat.Nos	DPX-IS with release
1	3P 0 266 72 0 266 74 4P 0 266 73 0 266 75	Front handle 400 A 630 A
1	0 266 76 0 266 78 0 266 77 0 266 79	Right-hand side handle 400 A 630 A
1	0 266 80 0 266 82 0 266 81 0 266 83	Left-hand side handle 400 A 630 A

Pack	Cat.Nos	DPX-IS without release
1	3P 0 266 60 0 266 62 4P 0 266 61 0 266 63	Front handle 400 A 630 A
1	0 266 64 0 266 66 0 266 65 0 266 67	Right-hand side handle 400 A 630 A
1	0 266 68 0 266 70 0 266 69 0 266 71	Left-hand side handle 400 A 630 A

Pack	Cat.Nos	Rotary handles
1	0 266 89 0 266 90	Direct for emergency use For mounting instead of standard handle Front and right-hand side handle Left-hand side handle
1	0 266 86 0 266 87	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) For front and side handle device For front and side handle device for emergency use To be ordered with Cat.Nos 0 266 89 or 0 266 90

Pack	Cat.Nos	Accessories
1	0 262 50	Cage terminals Set of 4 terminals for cable 300 mm ² max. (rigid) or 240 mm ² max. (flexible)
1	0 262 51	Set of 4 high-capacity terminals for cable 2 x 240 mm ² (rigid) or 2 x 185 mm ² (flexible)
1	3P 0 262 48 4P 0 262 49	Spreaders Set of incoming or outgoing spreaders
1	0 263 52 0 263 53	Rear terminals Used to convert the fixed version with front terminals to the fixed version with rear Set of incoming and outgoing flat rear terminals
1	0 262 45	Sealable terminal shields Set of 2
1	0 266 97	Padlock For locking mechanism in open position Padlock with flat key N° ABA90GEL6149



For detailed dimensions,
[see e-catalogue](#)



DPX™-IS 1600 isolating switches

800 to 1600 A



0 265 98



0 262 65

Dimensions [see e-catalogue](#)
Electrical characteristics p. 162

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 electrical auxiliaries (opposite)
Can be mounted on plate in XL³ enclosures

Pack	Cat.Nos
1	3P 0 265 91 4P 0 265 95
1	0 265 92 0 265 96
1	0 265 93 0 265 97
1	0 265 94 0 265 98

DPX-IS with release

Can be associated with a residual current relay with separate coil (p. 147), supplied without shunt release

Front handle

800 A	0 265 91	0 265 95
1000 A	0 265 92	0 265 96
1250 A	0 265 93	0 265 97
1600 A	0 265 94	0 265 98

Vari-depth handle

Standard
For emergency use

Locking accessories

Key barrel and flat key N° ABA90GEL6149
Key barrel and star key N° HBA90GPS6149

Pack	Cat.Nos
1	0 262 69
1	0 262 70
1	3P 0 262 73 4P 0 262 74
1	0 263 80 0 263 82
1	0 263 81 0 263 83
1	0 262 67
1	0 262 68
1	3P 0 262 64 4P 0 262 65
1	0 262 66

Accessories

Cage terminals

Set of 1 terminal for cables without lug
2 x 240 mm² for rigid cable or 2 x 185 mm² for flexible cable

Set of 1 high-capacity terminal for cables without lug
4 x 240 mm² for rigid cable
2 x 185 mm² for flexible cable

Spreaders

Set of incoming or outgoing spreaders

Rear terminals

Used to convert the fixed version with front terminals to the fixed version with rear terminals

Set of incoming and outgoing rear terminals
Short terminals
Long terminals

Extended front terminals

Short terminals for 630 - 1250 A (2 bars max. per pole)
Long terminals for 1600 A (3 bars max. per pole)

Sealable terminal shields

Set of 2

Insulation shields

Used to isolate the connections between each pole
Set of 3

DPX™-IS auxiliaries



0 261 60



0 261 85

Pack	Cat.Nos	Auxiliary contact or fault signal
1	0 261 60	For signalling the state of the contacts or opening of the MCCB on a fault For DPX Changeover switch 3 A - 240 V~

Pack	Cat.Nos
1	0 261 64
1	0 261 65
1	0 261 66
1	0 261 67
1	0 261 68

Shunt releases

Allow remote tripping of a DPX-IS
Shunt inrush power 300 VA
Coil voltage 24 V~ / =
Coil voltage 48 V~ / =
Coil voltage 110 V~ / =
Coil voltage 230 V~ / =
Coil voltage 400 V~ / =

Pack	Cat.Nos
1	0 261 70
1	0 261 71
1	0 261 72
1	0 261 76
1	0 261 73
1	0 261 74

Undervoltage releases

Undervoltage power consumption 5 VA

For DPX-IS 250/630

1	0 261 80
1	0 261 81
1	0 261 82
1	0 261 86
1	0 261 83
1	0 261 84

For DPX-IS 1600

1	0 261 80
1	0 261 81
1	0 261 82
1	0 261 86
1	0 261 83
1	0 261 84

Pack	Cat.Nos
1	0 261 90
1	0 261 91

Time-lag (800 ms) undervoltage releases

Allow remote tripping of a DPX-IS
Prevent false tripping in the event of AC supply microbreaks

Time-lag modules

1	0 261 90
1	0 261 91

Undervoltage releases

To be equipped with time-lag module
Cat.No 0 261 90/91
For DPX-IS 250, 630
For DPX-IS 1600

No. of modules

3

3

For detailed dimensions,
[see e-catalogue](#)



DPX™-IS isolating switches

63 to 1600 A

Electrical characteristics

DPX-IS 250

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 _{dc}		
Rated insulation voltage (Ui)		800 V~		
Rated impulse withstand voltage (Uiimp)		8 kV~		
AC 23 A	400 V~	63 A	100 A	160 A
	690 V~	63 A	100 A	160 A
AC 22 A	690 V~	63 A	100 A	160 A
Short-circuit making capacity (kA efficient) (Icm)		40 kA		
I admissible Is (Icw)		12 kA efficient		
I admissible with fuse (Icc)		100 kA efficient		
Max. rating of fuse	gG	63 A	100 A	160 A
	aM	63 A	100 A	160 A
Rated closing capacity on short circuit (kA peak) (Icm)		40 kA		
mechanical		25000 operations		
Endurance (cycles)	electrical (AC 23 - 400 V~)		2500 operations	
Index of protection		IP 20 front panel		

DPX-IS 630

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 (Uiimp)		8 kV~
AC 23 A	400 V~	400 A
	500 V~	400 A
AC 22 A	690 V~	400 A
DC 23 A	250 V _{dc}	400 A
Rated closing capacity on short circuit (kA peak) (Icm)		40 kA
I admissible Is (Icw)		20 kA efficient
I admissible with fuse (kA efficient) (Icc)		100 kA
Max. rating of fuse	gG	400 A
	aM	400 A
mechanical		15000 operations
Endurance	electrical (AC 23 - 400 V~)	1500 operations
Index of protection		IP 20 front panel

DPX-IS 1600

Rating	800 A	1000 A	1250 A	1600 A
Connection	Cu flexible	2 x 185 mm ² or 4 x 185 mm ²		
	Cu rigid / Alu	2 x 240 mm ² or 4 x 240 mm ²		
Copper bar/lugs		50 mm or 80 mm		
Nominal rating (Ue)		690 V~		
Rated insulation voltage (Ui)		690 V~		
Rated impulse withstand voltage (Uiimp)		8 kV~		
AC 23 A	400 V~	800 A	1000 A	1250 A
	500 V~	800 A	1000 A	1250 A
	690 V~	800 A	1000 A	1250 A
DC 23 A	250 V _{dc}	800 A	1000 A	1250 A
I admissible Is (Icw)		12 kA efficient		
I admissible with fuse (Icc)		100 kA efficient		
Max. rating of fuse	gG	800 A	1000 A	1250 A
	aM	800 A	1000 A	1250 A
Short-circuit making capacity (kA peak) (Icm)		40 kA		
mechanical		10000		
Endurance	electrical (AC 23 - 400 V~) (Icm)	3000	3000	2000
Index of protection		IP 20 front panel		

DPX³-I trip-free switches

160 to 1600 A



4 202 99

Dimensions see e-catalogue

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 DPX³ residual current relays

Conform to IEC 60947-3

Category of use AC 23 A

Connection identical to corresponding DPX³

Pack	Cat.Nos	
1	3P 4 201 98	4P 4 201 99
	In (A) 160	Mounting on rail L with plate Cat.No 4 210 71 (p. 129)
1	4P with earth leakage module 4 201 97	160 Mounting on rail L with plate Cat.No 4 210 73 (p. 129)

DPX³-I 160

In (A)
160
Mounting on rail L with plate Cat.No 4 210 71 (p. 129)

DPX³-I 250

In (A)
250
Mounting on rail L with plate Cat.No 4 210 72 (p. 133)

DPX³-I 630

In (A)
400
630

DPX³-I 1600

In (A)

1	3P 4 224 90	4P 4 224 94	630
1	4 224 91	4 224 95	800
1	4 224 92	4 224 96	1250
1	4 224 93	4 224 97	1600

DPX³-I trip-free switches

160 to 1600 A

Electrical characteristics

	DPX ³ -I 160	DPX ³ -I 250	DPX ³ -I 630	DPX ³ -I 1600
Rated operating voltage Ue (V) direct	50/60 Hz 690 ⁽¹⁾	250	250	250
Rated insulation voltage Ui (V _~)	800	800	690	690
Rated impulse withstand voltage Uimp (kV)	8	8	8	8
Rated closing capacity on 400 V short circuit Icm (kA)	3	3	6.5 ⁽³⁾ / 13 ⁽⁴⁾	40
Short-time resistive current t = 1 s Icw (kA)	1.7	1.7	4 ⁽³⁾ / 7.6 ⁽⁴⁾	10 ⁽⁵⁾ / 15 ⁽⁶⁾ / 20 ⁽⁷⁾
Endurance (o.c. cycle)	mechanical electrical	25000 8000	25000 8000	15000 5000
Conventional thermal current (A)	160	250	630	1600
Nominal current of use (A) AC 23 A (690 V _~)	160 (160 V)	250 (250 V)	630	1600
DC 23 A (250 V _~)	160	160	630	-

1: 500 V for DPX³-I with earth leakage module

2: Up to 1250 A

3: In = 400 A

4: In = 630 A

5: In = 800 A

6: In = 1250 A

7: In = 1600 A

Dimensions

Dimensions of DPX³-I identical to corresponding DPX³

DPX ³ -I	Dimensions
DPX ³ -I 160	DPX ³ 160 (see e-catalogue)
DPX ³ -I 250	DPX ³ 250 (see e-catalogue)
DPX ³ -I 630	DPX ³ 630 (see e-catalogue)
DPX ³ -I 1600	DPX ³ 1600 (see e-catalogue)

Choice of faceplates and distribution equipment

Equipment of DPX³-I identical to corresponding DPX³

Devices	XL ³ 400	XL ³ 800	XL ³ 4000
DPX ³ /DPX ³ -I 160	(p. 222)	(p. 234)	(p. 244)
DPX ³ /DPX ³ -I 250	(p. 222)	(p. 234)	(p. 244)
DPX ³ /DPX ³ -I 630	(p. 223)	(p. 234)	(p. 244)
DPX ³ /DPX ³ -I 1600	-	(p. 234)	(p. 244)

DCX-M changeover switches

from 40 to 1600 A



4 311 21

4 311 24

4 311 26

4 311 29



Technical characteristics [see e-catalogue](#)

Conform to IEC EN 60947-3

Moulded case design with frame parts of non - flammable glass fibre reinforced polyester with high mechanical and electrical track resistance and with low water absorption

Knife - type contacts with self - wiping action on the contact surfaces, providing:

- under heavy starting currents or with short - circuit conditions, the contact pressure is increased
- shock and vibration proof contacts

Four breaking points per pole with two double - break contacts

Pack	Cat.Nos		Changeover switches			Pack	Cat.Nos		Changeover switches (continued)		
			Size 1						Size 5		
Cage terminals											
1	3P	3P+N	Intensity	Handle position	Connection	1	3P	3P+N	Intensity	Handle position	Connection
1	4 311 00	4 311 20	40 A	I - O - II		1	4 311 11	4 311 31	1000 A	I - O - II	
1	4 311 01	4 311 21	63 A	I - O - II		1	4 311 12	4 311 32	1250 A	I - O - II	
Size 2											
Connection with lugs											
1	4 311 02	4 311 22	100 A	I - O - II		1	4 311 13	4 311 33	1600 A	I - O - II	
1	4 311 03	4 311 23	125 A	I - O - II							
1	4 311 04	4 311 24	160 A	I - O - II							
Size 3											
Connection with lugs											
1	4 311 05	4 311 25	200 A	I - O - II		1	4 311 14	4 311 34	1600 A	I - O - II	
1	4 311 06	4 311 26	250 A	I - O - II							
1	4 311 07	4 311 27	315 A	I - O - II							
1	4 311 08	4 311 28	400 A	I - O - II							
Size 4											
Connection with lugs											
1	4 311 09	4 311 29	630 A	I - O - II		1	4 311 15	4 311 35	1600 A	I - O - II	
1	4 311 10	4 311 30	800 A	I - O - II							

DCX-M changeover switches

auxiliaries and accessories



4 311 40



4 311 42



4 311 55



4 311 60



4 311 61

Pack	Cat.Nos	Direct handles
1	4 311 45	Black rotary handles For DCX-M between 40 A and 160 A
20	4 311 46	For DCX-M between 200 A and 400 A
1	4 311 47	For DCX-M 630 A and 800 A
5	4 311 48	For DCX-M 1000 A and 1250 A
2	4 311 49	For DCX-M 1600 A
		External handles
		Black rotary handles Supplied with standard rod
1	4 311 40	For DCX-M between 40 A and 160 A
1	4 311 41	For DCX-M between 200 A and 400 A
10	4 311 42	For DCX-M 630 A and 800 A
5	4 311 43	For DCX-M 1000 A and 1250 A
2	4 311 44	For DCX-M 1600 A
		Extended shafts
		Replace the standard rods supplied with the external handles, when required by the door distance
1	4 311 50	For DCX-M between 40 A and 160 A
10	4 311 51	For DCX-M between 200 A and 400 A
10	4 311 52	For DCX-M 630 A and 800 A
10	4 311 53	For DCX-M 1000 A and 1250 A
		Safety key lock devices
		Simple lock devices
2	4 311 70	For DCX-M between 40 A and 160 A
2	4 311 71	For DCX-M between 200 A and 400 A
2	4 311 72	For DCX-M 630 A and 800 A
2	4 311 73	For DCX-M 1000 A and 1250 A
2	4 311 74	For DCX-M 1600 A
		Double lock devices
2	4 311 75	For DCX-M between 40 A and 160 A
2	4 311 76	For DCX-M between 200 A and 400 A
2	4 311 77	For DCX-M 630 A and 800 A
2	4 311 78	For DCX-M 1000 A and 1250 A
2	4 311 79	For DCX-M 1600 A

Pack	Cat.Nos	Auxiliary contacts
10	4 311 55	For DCX-M between 40 and 1250 A
10	4 311 56	1 NO + 1 NC 2 NO + 2 NC
10	4 311 57	For DCX-M 1600 A
10	4 311 58	1 NO + 1 NC 2 NO + 2 NC
		Bridging links
5	4 311 60	For DCX-M 40 A and 63 A
5	4 311 61	For DCX-M 100 A and 125 A
3	4 311 62	For DCX-M 1600 A
		Rear protective plates
5	4 311 65	For DCX-M between 200 A and 400 A
5	4 311 66	For DCX-M 630 A and 800 A
5	4 311 67	For DCX-M 1000 A and 1250 A
		Mounting kits for DCX-M
		Kit comprising plate and faceplate for fixing DCX-M
		For vertical mounting in XL³ 800 and XL³ 4000 enclosures
1	0 211 20	For DCX-M 40 A and 63 A
1	0 211 21	For DCX-M 100 A and 160 A
1	0 211 22	For DCX-M 200 A and 400 A
		For horizontal mounting in XL³ 800 and XL³ 4000 enclosures
1	0 211 27	For DCX-M 100 A and 160 A
1	0 211 28	For DCX-M 200 A and 400 A
		For vertical mounting in XL³ 4000 enclosures
1	0 211 23	For DCX-M 630 A and 800 A
1	0 211 24	For DCX-M 1000 A and 1250 A
1	0 211 25	For DCX-M 1600 A
		For horizontal mounting in XL³ 4000 enclosures
1	0 211 29	For DCX-M 630 A and 800 A

DCX-M handles and accessories selection chart

A	Size	Connection	Changeover switch I-O-II		Direct handle	External handle		
			3P	4P		Cat.Nos	L (mm)	D (mm)
40	1	cage terminals	4 311 00	4 311 20	4 311 45	4 311 40	137	90 - 180
63	1	cage terminals	4 311 01	4 311 21	4 311 45	4 311 40	137	90 - 180
100	2	lugs	4 311 02	4 311 22	4 311 45	4 311 40	137	161 - 250
125	2	lugs	4 311 03	4 311 23	4 311 45	4 311 40	137	161 - 250
160	2	lugs	4 311 04	4 311 24	4 311 45	4 311 40	137	161 - 250
200	3	lugs	4 311 05	4 311 25	4 311 46	4 311 41	161	158 - 254
250	3	lugs	4 311 06	4 311 26	4 311 46	4 311 41	161	158 - 254
315	3	lugs	4 311 07	4 311 27	4 311 46	4 311 41	161	158 - 254
400	3	lugs	4 311 08	4 311 28	4 311 46	4 311 41	161	158 - 254
630	4	lugs	4 311 09	4 311 29	4 311 47	4 311 42	151	187 - 255
800	4	lugs	4 311 10	4 311 30	4 311 47	4 311 42	151	187 - 255
1000	5	lugs	4 311 11	4 311 31	4 311 48	4 311 43	125	215 - 264
1250	5	lugs	4 311 12	4 311 32	4 311 48	4 311 43	125	215 - 264
1600	6	lugs	4 311 13	4 311 33	4 311 49	4 311 44	204	413 - 573

	Auxiliary contacts		Bridging links	Shaft extensions			Rear protective plate	Safety lock device	
	1 NO + 1 NC	2 NO + 2 NC		Cat.Nos	L (mm)	D (mm)		Simple	Double
	4 311 55	4 311 56	4 311 60	4 311 50	187	90 - 240	-	4 311 70	4 311 75
	4 311 55	4 311 56	4 311 60	4 311 50	187	90 - 240	-	4 311 70	4 311 75
	4 311 55	4 311 56	4 311 61	4 311 50	187	161 - 306	-	4 311 70	4 311 75
	4 311 55	4 311 56	4 311 61	4 311 50	187	161 - 306	-	4 311 70	4 311 75
	4 311 55	4 311 56	-	4 311 50	187	161 - 306	-	4 311 70	4 311 75
	4 311 55	4 311 56	-	4 311 51	305	158 - 414	4 311 65	4 311 71	4 311 76
	4 311 55	4 311 56	-	4 311 51	305	158 - 414	4 311 65	4 311 71	4 311 76
	4 311 55	4 311 56	-	4 311 51	305	158 - 414	4 311 65	4 311 71	4 311 76
	4 311 55	4 311 56	-	4 311 51	305	158 - 414	4 311 65	4 311 71	4 311 76
	4 311 55	4 311 56	-	4 311 52	290	187 - 405	4 311 66	4 311 72	4 311 77
	4 311 55	4 311 56	-	4 311 52	290	187 - 405	4 311 66	4 311 72	4 311 77
	4 311 55	4 311 56	-	4 311 53	275	215 - 414	4 311 67	4 311 73	4 311 78
	4 311 55	4 311 56	-	4 311 53	275	215 - 414	4 311 67	4 311 73	4 311 78
	4 311 57	4 311 58	4 311 62	consult us	consult us	consult us	-	4 311 74	4 311 79

Isolator switches



7 353 00



Technical characteristics [see e-catalogue](#)

Pack	Cat.Nos	Isolator switches AC22A
		2P 250 V~ 50/60Hz
1	7 353 00	2P 20 A
1	7 353 01	2P 32 A
1	7 353 02	2P 40 A
1	7 353 03	2P 63 A
		3P 440 V~ 50/60Hz
1	7 353 10	3P 20 A
1	7 353 11	3P 32 A
1	7 353 12	3P 40 A
1	7 353 13	3P 63 A
		3P + Neutral 440 V~ 50/60Hz
1	7 353 20	4P 20 A
1	7 353 21	4P 32 A
1	7 353 22	4P 40 A
1	7 353 23	4P 63 A



Technical characteristics, [see e-catalogue](#)



Proximity switching from 16 to 80 A

Compatible with auxiliary contact



0 221 71



0 227 00



0 222 82



Technical characteristics [see e-catalogue](#)

Safety switch for disconnection and isolation of phases
IP 2X

Double breaking on each phase

Red rotary handle on yellow plate

Immediate display of position

- horizontal: open (O)

- vertical: closed (I)

Equipped with non reversible terminals

Conform to IEC EN 60947-3

UL-cUL (USA and Canada) agreements (except boxes)

IP 65 - IK 07 for boxes

Proximity switching

Can be equipped with auxiliary contact
Cat.No 0 227 00
Padlockable boxes for on-load breaking,
isolation and locking in O position
Equipment located remotely from a control cabinet
Applications: breaking of CMV (controlled
mechanical ventilation), motors, fixed or moving
machines, air-conditioners

3P

1	0 221 71	16 A
1	0 221 72	20 A
1	0 221 73	25 A
1	0 221 74	40 A
1	0 221 75	50 A
1	0 221 76	63 A
1	0 221 77	80 A

3P + N/O + N/C

1	0 221 89	16 A
1	0 221 79	20 A
1	0 221 88	25 A

4P - neutral on left-hand side

1	0 221 81	16 A
1	0 221 82	20 A
1	0 221 83	25 A
1	0 221 84	40 A
1	0 221 85	50 A
1	0 221 86	63 A
1	0 221 87	80 A

Accessories

1	0 227 00	Auxiliary contact N/O + N/C
5	0 222 82	Labels Marked "Main switch" Duty label for padlockable faceplate



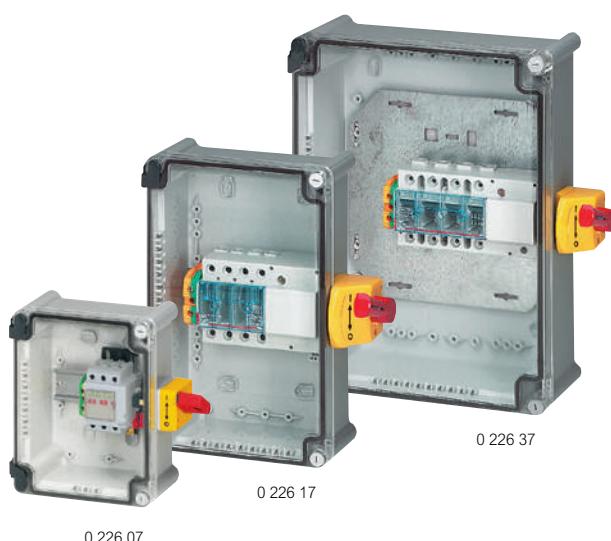
Technical characteristics, [see e-catalogue](#)



Technical characteristics, [see e-catalogue](#)



Proximity switching 32 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

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
Connection Earth terminal nominal capacity
1 0 226 05 3P 16 mm² cage terminals 10 mm²

63 A - IK 07

Supplied with 2 cable glands 29P - ISO 32
1 0 226 15 3P cage terminals 50 mm²
1 0 226 17 4P 50 mm² flexible 50 mm²
 70 mm² rigid

100 A - IK 07

Supplied with 2 cable glands 36P - ISO 50
1 0 226 25 3P cage terminals 50 mm²
1 0 226 27 4P 50 mm² flexible 50 mm²
 70 mm² rigid

125 A - IK 07

Supplied with 2 cable glands 36P - ISO 50
1 0 226 33 3P cage terminals 50 mm²
1 0 226 34 4P 50 mm² flexible 50 mm²
 70 mm² rigid

160 A - IK 07

Supplied with 2 cable glands 36P - ISO 50
1 0 226 35 3P cage terminals 50 mm²
1 0 226 37 4P 50 mm² flexible 50 mm²
 70 mm² rigid

Proximity switching 32 to 160 A

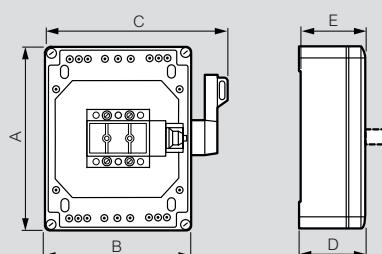
Full load switch units 32 to 160 A

Electrical characteristics

Identical to corresponding Vistop isolating switch

Switch units	Cat.Nos	Characteristics
32 A	0 226 05/07	Vistop 32 A p. 166
63 A	0 226 15/17	Vistop 63 A p. 166
100 A	0 226 25/27	Vistop 100 A p. 166
125 A	0 226 33/34	Vistop 125 A p. 166
160 A	0 226 35/37	Vistop 160 A p. 166

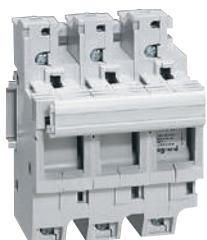
Dimensions



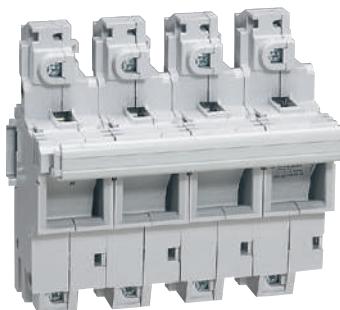
Cat.Nos	A	B	C	D	E
0 226 05/07 32 A	200	160	218	93	93
0 226 15/17 63 A	290	190	263	95	102
0 226 25/27/33/34 100/125 A	332	262	316	132	132
0 226 35/37 160 A	382	292	346	132	132

SP fuse carriers

with protected terminals



0 215 04



0 216 05

Conform to IEC 60269-2

Veritas approved

Height under front plate 44 mm

Mixed socket screw head for easier cable clamping

Screw or rail \square and \square mounting

Pack	Cat.Nos	SP 38 for HRC fuses 10 x 38		
3	0 214 04	Without microswitch	Connection 1 x 16 mm ² or 2 x 10 mm ²	No of modules 3
2	0 214 05	3P + equipped neutral		4
1	0 215 04	SP 51 for HRC fuses 14 x 51	Connection 1 x 35 mm ² or 2 x 16 mm ²	No of modules 4.5
1	0 215 05	3P + equipped neutral		6
1	0 216 04	SP 58 for HRC fuses 22 x 58	Connection 1 x 50 mm ² or 2 x 25 mm ²	No of modules 6
1	0 216 05	3P + equipped neutral		8

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	gG	aM
SP 38	25 A	25	16	25	16	-	-
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:

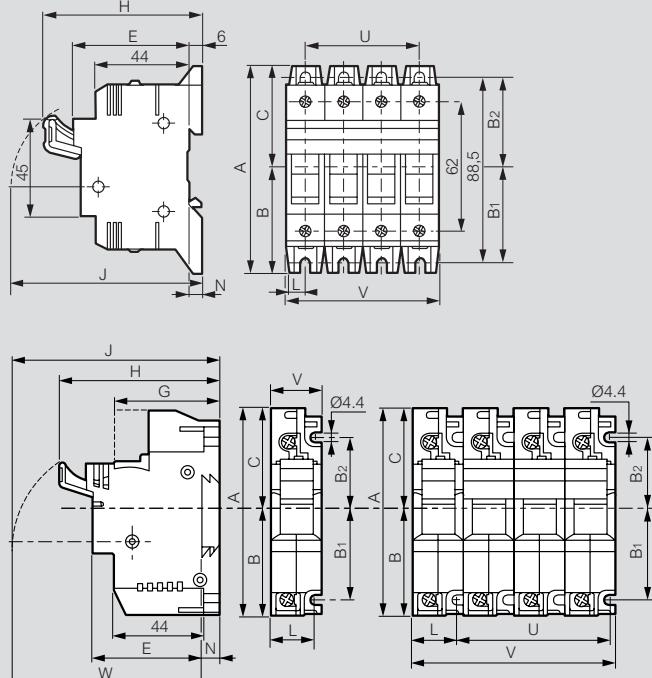
- Ambient temperature over 35 °C: derate fuse by one rating per 10 °C (UTE C 20-051 / IEC 60943)
- Side-by-side equipment and simultaneous function

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

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
SP 38	100	51	46	42.5	48.5	52	-	76
SP 51	106	54.5	45	35	51.5	55	53	84
SP 58	140	74	65	45	66	59	53	90

	J	L	N	U	V	W
	3P	3P+N	3P	3P+N	3P	3P
SP 38	86	9	6	35.4	53.1	53.1
SP 51	99	20.7	9	53	79.5	79.5
SP 58	114	27	9	72	108	108

HRC cartridge fuses



0 133 08

0 153 96

0 120 04

0 140 12

0 151 50

Technical data and dimensions **see e-catalogue**

Pack	Cat.Nos.	
		Cylindrical type gG
		Conform to EN 60269-1, IEC 60269-1 and 2 Veritas approved
		8 x 32 (previously 8.5 x 31.5)
	Without indicator	With indicator
10	0 123 01	
10	0 123 02	0 124 02
10	0 123 04	0 124 04
10	0 123 06	0 124 06
10	0 123 10	
10	0 123 16	0 124 10
	Without indicator	With indicator
10	0 133 94	0.5
10	0 133 01	1
10	0 133 02	0 134 02
10	0 133 04	0 134 04
10	0 133 06	0 134 06
10	0 133 08	0 134 08
10	0 133 10	0 134 10
10	0 133 16	0 134 16
10	0 133 20	0 134 20
10	0 133 25	0 134 25
	Without striker	With striker
10	0 143 06	6
10	0 143 10	10
10	0 143 16	0 145 16
10	0 143 20	0 145 20
10	0 143 25	0 145 25
10	0 143 32	0 145 32
10	0 143 40	0 145 40
10	0 143 50	0 145 50
	Without striker	With striker
10	0 153 16	16
10	0 153 20	20
10	0 153 25	25
10	0 153 32	32
10	0 153 40	40
10	0 153 50	0 155 50
10	0 153 63	0 155 63
10	0 153 80	0 155 80
10	0 153 96	0 155 96
10	0 153 97 ¹	0 155 97 ¹

Cylindrical type gGConform to EN 60269-1, IEC 60269-1 and 2
Veritas approved**8 x 32 (previously 8.5 x 31.5)**

Pack	Rating (Amps)	Voltage ~ (Volts)	Rupture capacity (Amps)
10	1	400	20000
10	2		
10	4		
10	6		
10	10		
10	16		
10	0.5	500	100000
10	1		
10	2		
10	4		
10	6		
10	8		
10	10		
10	12		
10	16		
10	20		
10	25		
10	6	500	100000
10	10		
10	16		
10	20		
10	25		
10	16	500	100000
10	20		
10	25		
10	32		
10	40		
10	50		
10	125	400	

Pack Cat.Nos.**Cylindrical type aM (motor rated)**Conform to EN 60269-1, IEC 60269-1 and 2
Veritas approved**8 x 32 (previously 8.5 x 31.5)**

Pack	Rating (Amps)	Voltage ~ (Volts)	Rupture capacity (Amps)
10	0 120 04	4	400
10	0 120 06	6	20000
10	0 120 08	8	
10	0 120 10	10	
10	0 130 95	0.50	
10	0 130 01	1	
10	0 130 02	2	
10	0 130 04	4	
10	0 130 06	6	100000
10	0 130 08	8	
10	0 130 10	10	
10	0 130 12	12	
10	0 130 16	16	
10	0 130 20	20	
10	0 130 25	25	
10	0 141 02	2	
10	0 141 04	4	
10	0 141 06	6	
10	0 141 08	8	
10	0 140 10	10	
10	0 140 12	12	500
10	0 140 16	16	100000
10	0 140 20	20	
10	0 140 25	25	
10	0 140 32	32	
10	0 140 40	40	
10	0 140 50 ¹	50	
10	0 150 25	25	
10	0 150 32	32	
10	0 150 40	40	
10	0 150 50	50	500
10	0 150 63	63	100000
10	0 150 80	80	
10	0 150 96	100	
10	0 150 97 ¹	125	

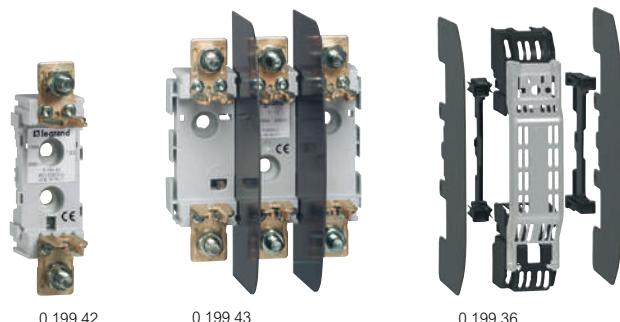
Neutral links

10	0 123 00	8 x 32 (previously 8.5 x 31.5)
10	0 133 00	10 x 38
10	0 143 00	14 x 51
10	0 153 00	22 x 58

1: Overrating not described by standards

For technical data and dimensions,
see e-catalogue

Blade type cartridge fuses



Conform to IEC 60269-2

Pack	Cat.Nos	Bases for blade type cartridge fuses
		Self-extinguishing plastic bases Contact points are sprung
		Bare
3 1	1P 0 199 42 0 199 44 3P 0 199 43 0 199 45 ¹	Size 000/00 000/00 In (A) 100 160 Mounting screw or rail Connection M8 M8
3 1	1P 0 199 46 3P 0 199 48 3P 0 199 50	0 160 1 250 2 400 screw or rail M8 M10 M10
		With micro-switch Equipped with "present cartridge" and "blown fuse" indicator for cartridge fuses with striker
3 1 1	1P 0 199 47 1P 0 199 49 1P 0 199 51	0 160 1 250 2 400 screw or rail M8 M10 M10
		Handle
5	0 199 02	For all sizes
		Accessories
		Separation dividers and joining accessories kits
5 5 5	0 199 30 ² 0 199 31 0 199 32	Base Size 000/00 0 1/2 Number of dividers 2 2 2 Number of joining accessories 0 2 2 For base Cat.No 0 199 42/44 0 199 46/47 0 199 48/49 /50/51
		Protection kits For protection against accidental contacts, Kits consisting of : separation dividers, joining accessories, terminal shields and fuse covers
5 5 5 5 5	1P 0 199 35 ² 0 199 36 0 199 37 0 199 38 3P 0 199 39 ²	For bases size 00 Cat.No 0 199 42/44 For bases size 0 Cat.No 0 199 46 For bases size 1 Cat.No 0 199 48 For bases size 2 Cat.No 0 199 50 For bases size 00 Cat.No 0 199 43/45

1: Supplied with 2 separation dividers
2: Supplied without joining accessories (separation dividers are fixed directly on the base of)



For technical data and dimensions,
see e-catalogue



HRC blade type cartridge fuses

gG/gL and aM types



Pack	Cat.Nos	Type gG / gL
		Conform to IEC 60269-2 For protection against accidental contacts, use terminal shields and fuse covers supplied with protection kits
		Size 00
		Rating (Amps) Voltage ~ (Volts) Breaking capacity (Amps)
	With indicator	10 500 120000
	0 163 18	25
	0 163 20	32
	0 163 22	35
	0 163 25	40
	0 163 30	50
	0 163 35	63
	0 163 40	80
	0 163 45	100
	0 163 50	125
	0 163 55	160
	Size 0	
	3 3 3 3 3	0 168 35 63 500 120000
	0 168 40	80
	0 168 45	100
	0 168 50	125
	0 168 55	160
	Size 1	
	3 3 3 3 3	0 173 50 125 500 120000
	0 173 55	160
	0 173 60	200
	0 173 65	250
	Size 2	
	3 3 3 3 3	0 178 60 200 500 120000
	0 178 65	250
	0 178 70	315
	0 178 75	400
	Type aM (motor rated)	
		Conform to EN 60269-1 IEC 60269-1, 2 and VDE 0636-1 Fully insulated end plate and handle lugs
		Size 00
		Rating (Amps) Voltage ~ (Volts) Breaking capacity (Amps)
	With indicator	3 3 3 3 3
	0 160 35	63 500 120000
	0 160 40	80
	0 160 45	100
	0 160 50	125
	Size 0	
	3 3 3 3 3	0 166 35 63 500 120000
	0 166 40	80
	0 166 45	100
	0 166 50	125
	0 166 55	160
	Size 1	
	3 3 3 3 3	0 171 50 125 500 120000
	0 171 55	160
	0 171 60	200
	0 171 65	250
	Size 2	
	3 3 3 3 3	0 176 60 200 500 120000
	0 176 65	250
	0 176 70	315
	0 176 75	400

MPX³, CTX³, RTX³

a complete range of devices for protection and control of motors



MPX³ MPCBs

- Compact design
- Rated current up to 100 A
- High breaking capacity range : 100 kA at 230 V for all rated currents
- Complete range of common control and signalling auxiliaries and accessories

STANDARD BREAKING CAPACITY	HIGH BREAKING CAPACITY	MAGNETIC ONLY
MPX ³ 32S	MPX ³ 32H	MPX ³ 63H
	MPX ³ 100 H	MPX ³ 32MA

See the video



CTX³ CONTACTORS AND MINI CONTACTORS

- Compact design
- 3-pole and 4-pole
- Operating current from 6 to 800 A
- Screw and cage terminals
- Complete range of auxiliaries and accessories



RTX³ thermal overload relays
 - Differential and standard versions
 - Direct connection on CTX³ contactors
 - Mounting units available for mounting separately from contactors

4-pole CTX³ contactors from 40 to 800 A

MPCBs MPX³

technical characteristics

		MPX ³ 32S												MPX ³ 32H												
MPCB		MPX ³ 32S												MPX ³ 32H												
Size		1												2												
Type		Thermal magnetic												Thermal magnetic												
Breaking capacity		Standard												High												
Handle type		Toggle												Rotary												
Number of poles		3												3												
Characteristics of use																										
Rated operational voltage (Ue)		Up to 690 V												Up to 690 V												
Rated frequency		50/60 Hz												50/60 Hz												
Rated insulation voltage (Ui)		690 V												690 V												
Rated impulse voltage (Uiimp)		6 kV												6 kV												
Utilisation category	IEC 60947-2 (breaker)		Cat. A												Cat. A											
	IEC 60947-4 (Motor starter)		AC3												AC3											
Mechanical endurance (Operating)		100000												100000												
Electric endurance (Cycles)		100000												100000												
Max operating frequency per hour (Ope./h)		25												25												
Temperature compensation		-20 to +60°C												-20 to +60°C												
Instantaneous short circuit release		13 x le max.												13 x le max.												
Trip class		10												10												
Overload protection		•												•												
Phase failure protection		•												•												
Trip indicating function		with alarm contact 4 174 06/07												with alarm contact 4 174 06/07												
Test function		•												•												
Weight (g)		320												360												
Rated breaking capacity (kA)	Rated operational current le (A)	Thermal release adjustment range (A)	240V 230V 220V		415V 400V		460V 440V		525V 500V		690V 600V		240V 230V 220V		415V 400V		460V 440V		525V 500V		690V 600V					
			Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics				
0.16	0.1 to 0.16	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100					
0.25	0.16 to 0.25	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100					
0.4	0.25 to 0.4	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100					
0.63	0.4 to 0.63	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100					
1	0.63 to 1	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100					
1.6	1 to 1.6	100	100	100	100	100	100	100	100	100	3	3	100	100	100	100	100	100	100	100	100					
2.5	1.6 to 2.5	100	100	100	100	100	100	50	38	3	3	100	100	100	100	100	100	100	100	100	8					
4	2.5 to 4	100	100	100	100	50	38	15	11	3	3	100	100	100	100	100	100	100	100	100	8					
6	4 to 6	100	100	100	100	15	11	10	8	3	3	100	100	100	100	100	100	100	100	100	6					
8	5 to 8	100	100	100	100	15	11	10	8	3	3	100	100	100	100	50	38	50	38	6	6					
10	6 to 10	100	100	50	38	15	11	6	5	3	3	100	100	100	100	50	38	50	38	6	6					
13	9 to 13	100	100	50	38	10	8	6	5	3	3	100	100	100	100	50	38	42	32	6	6					
17	11 to 17	50	38	20	15	10	8	6	5	3	3	100	100	50	38	20	15	10	8	4	4					
22	14 to 22	40	30	15	11	8	6	6	5	3	3	100	100	50	38	20	15	10	8	4	4					
26	18 to 26	40	30	15	11	8	6	5	4	3	3	100	100	50	38	20	15	10	8	4	4					
32	22 to 32	30	22	15	11	6	4	5	4	3	3	100	100	50	38	20	15	10	8	4	4					
40	28 to 40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
50	34 to 50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
63	45 to 63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
75	55 to 75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
90	70 to 90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
100	80 to 100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						

MPCBs MPX³

motor protection circuit breakers from 0.16 A to 100 A



Technical characteristics [see e-catalogue](#)

Conform to IEC 60947-1, IEC 60947-2, IEC 60947-4 ; class 10

Pack	Cat. Nos	Thermal magnetic MPCBs							
		Adjustable thermal release Magnetic release 13 le max.							
MPX³ 32S									
Standard breaking capacity With toggle handle Fixing on rail ↪									
		3-phase motor 400/415 V (kW)	Thermal release adjustment range (A)	Magnetic release operating current (A)	415 V breaking capacity Icu (kA)				
1	4 173 00	0.02	0.1 to 0.16	2.1	100				
1	4 173 01	0.06	0.16 to 0.25	3.3	100				
1	4 173 02	0.09	0.25 to 0.4	5.2	100				
1	4 173 03	0.12	0.4 to 0.63	8.2	100				
1	4 173 04	0.18/0.25	0.63 to 1	13	100				
1	4 173 05	0.37/0.55	1 to 1.6	20.8	100				
1	4 173 06	0.75	1.6 to 2.5	32.5	100				
1	4 173 07	1.5	2.5 to 4	52	100				
1	4 173 08	2.2	4 to 6	78	100				
1	4 173 09	3	5 to 8	104	100				
1	4 173 10	4	6 to 10	130	50				
1	4 173 11	5.5	9 to 13	169	50				
1	4 173 12	7.5	11 to 17	221	20				
1	4 173 13	7.5	14 to 22	286	15				
1	4 173 14	11	18 to 26	338	15				
1	4 173 15	15	22 to 32	416	15				

MPX³ 32H

High breaking capacity
With rotary handle
Fixing on rail ↪

1	4 173 20	0.02	0.1 to 0.16	2.1	100
1	4 173 21	0.06	0.16 to 0.25	3.3	100
1	4 173 22	0.09	0.25 to 0.4	5.2	100
1	4 173 23	0.12	0.4 to 0.63	8.2	100
1	4 173 24	0.18/0.25	0.63 to 1	13	100
1	4 173 25	0.37/0.55	1 to 1.6	20.8	100
1	4 173 26	0.75	1.6 to 2.5	32.5	100
1	4 173 27	1.5	2.5 to 4	52	100
1	4 173 28	2.2	4 to 6	78	100
1	4 173 29	3	5 to 8	104	100
1	4 173 30	4	6 to 10	130	100
1	4 173 31	5.5	9 to 13	169	100
1	4 173 32	7.5	11 to 17	221	50
1	4 173 33	7.5	14 to 22	286	50
1	4 173 34	11	18 to 26	338	50
1	4 173 35	15	22 to 32	416	50

MPX³ 63H

High breaking capacity
With rotary handle
Fixing on rail ↪ or by screw

1	4 173 60	4	6 to 10	130	100
1	4 173 61	5.5	9 to 13	169	100
1	4 173 62	7.5	11 to 17	221	50
1	4 173 63	7.5	14 to 22	286	50
1	4 173 64	11	18 to 26	338	50
1	4 173 65	15	22 to 32	416	50
1	4 173 66	18.5	28 to 40	520	50
1	4 173 67	22	34 to 50	650	50
1	4 173 68	30	45 to 63	819	50

Pack	Cat. Nos	Thermal magnetic MPCBs (continued)							
MPX³ 100H									
High breaking capacity With rotary handle Fixing on rail ↪ or by screw									
		3-phase motor 400/415 V (kW)	Thermal release adjustment range (A)	Magnetic release operating current (A)	415 V breaking capacity Icu (kA)				
1	4 173 70	7.5	11 to 17	221	100				
1	4 173 71	7.5	14 to 22	286	100				
1	4 173 72	11	18 to 26	338	100				
1	4 173 73	15	22 to 32	416	100				
1	4 173 74	18.5	28 to 40	520	100				
1	4 173 75	22	34 to 50	650	100				
1	4 173 76	30	45 to 63	819	100				
1	4 173 77	37	55 to 75	975	75				
1	4 173 78	45	70 to 90	1170	75				
1	4 173 79	45	80 to 100	1300	75				

Magnetic only MPCBs

Without thermal release
Magnetic release 13 x le max.

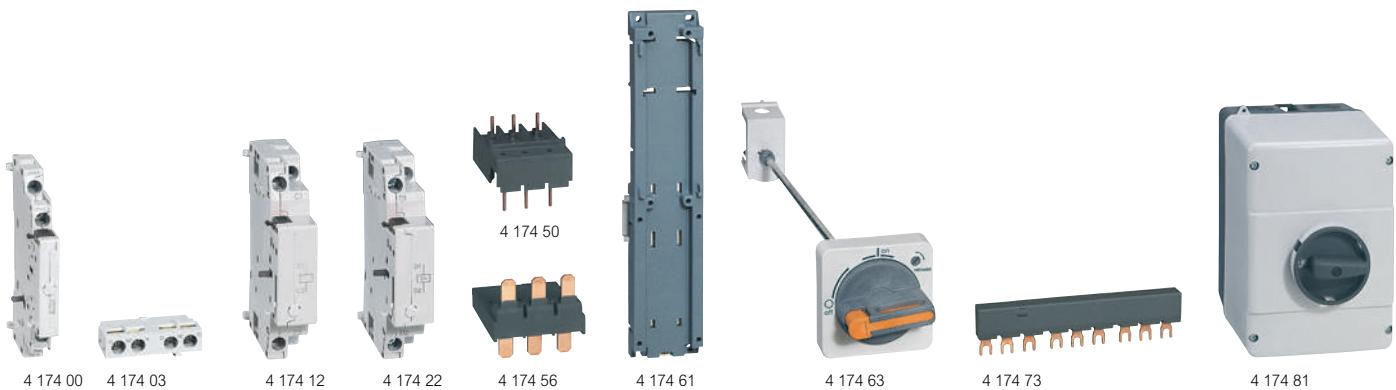
	3P	3-phase motor 400/415 V (kW)	Magnetic release operating current (A)	415 V breaking capacity Icu (kA)
1	4 173 40	0.02	2.1	100
1	4 173 41	0.06	3.3	100
1	4 173 42	0.09	5.2	100
1	4 173 43	0.12	8.2	100
1	4 173 44	0.18/0.25	13	100
1	4 173 45	0.37/0.55	20.8	100
1	4 173 46	0.75	32.5	100
1	4 173 47	1.5	52	100
1	4 173 48	2.2	78	100
1	4 173 49	3	104	100
1	4 173 50	4	130	100
1	4 173 51	5.5	169	100
1	4 173 52	7.5	221	50
1	4 173 53	7.5	286	50
1	4 173 54	11	338	50
1	4 173 55	15	416	50

For dimensions and wiring capacity
[see e-catalogue](#)



MPCBs MPX³

accessories



Pack	Cat. Nos	Auxiliary contacts		Pack	Cat. Nos	Direct adaptator and mounting unit
		2-pole				For mounting CTX ³ contactors under MPX ³ MPCBs
		Side mounting				Direct adaptators
		Mounting on the left side of MPCBs		2	4 174 48	Used to connect MPX ³ directly with the contactor
2	4 174 00	One module per MPCB		2	4 174 49	For MPX ³ 32S with CTX ³ 22 AC (p. 176)
2	4 174 01	1 NO + 1 NC		2	4 174 50	For MPX ³ 32S with CTX ³ 22 DC (p. 176)
2	4 174 02	2 NO		2	4 174 51	For MPX ³ 32H/32MA with CTX ³ 22 AC (p. 176)
		Front mounting		2	4 174 52	For MPX ³ 32H/32MA with CTX ³ 22 DC (p. 176)
10	4 174 03	One module per MPCB		2	4 174 53	For MPX ³ 32S with CTX ³ 40 AC (p. 176)
10	4 174 04	1 NO + 1 NC		2	4 174 54	For MPX ³ 32S with CTX ³ 40 DC (p. 176)
10	4 174 05	2 NO		2	4 174 55	For MPX ³ 32H/32MA with CTX ³ 40 AC (p. 176)
				2	4 174 56	For MPX ³ 32H/32MA with CTX ³ 40 DC (p. 176)
				2	4 174 57	For MPX ³ 63H with CTX ³ 65 AC with lug type
				1	4 174 58	For MPX ³ 63H with CTX ³ 65 DC with cage type
				1	4 174 59	For MPX ³ 63H with CTX ³ 65 DC with cage type
						Mounting unit
						This device is used for joining together MPX ³ MPCBs and CTX ³ contactors
				1	4 174 60	Screws not supplied
1	4 174 06	Operate in case of trip		1	4 174 61	For MPX ³ 32S/32H/32MA
1	4 174 08	Mounting on the left side of MPCBs		1	4 174 62	For MPX ³ 63H
		Set alarm contact first in case of using auxiliary				For MPX ³ 100H
		contact together (MPX ³ 63H can not accept auxiliary				
		contact and alarm contact together)				
		For MPX ³ 32				
		For MPX ³ 63 and 100				
		Magnetic trip alarm contact				
		Operate in case of instantaneous trip				
		Mounting on the left side of MPCBs				
		Set alarm contact first in case of using auxiliary				
2	4 174 07	contact together				
		1 NO + 1 NC				
		Shunt release				
		Mounting on the right side of MPCBs				
		One release per MPCB				
1	4 174 10	24 V - 50 Hz / 28 V - 60 Hz				
1	4 174 11	110 V - 50 Hz / 120 V - 60 Hz				
1	4 174 12	220-230 V - 50 Hz / 240-260 V - 60 Hz				
1	4 174 13	380-400 V - 50 Hz / 440-460 V - 60 Hz				
		Undervoltage release				
		Mounting on the right side of MPCBs				
		One release per MPCB				
		Without auxiliary contact				
1	4 174 20	24 V - 50 Hz / 28 V - 60 Hz				
1	4 174 21	110 V - 50 Hz / 120 V - 60 Hz				
1	4 174 22	220-230 V - 50 Hz / 240-260 V - 60 Hz				
1	4 174 23	380-400 V - 50 Hz / 440-460 V - 60 Hz				
		With 2 NO auxiliary contacts				
		Can not attach to MPX ³ 32S				
1	4 174 30	24 V - 50 Hz / 28 V - 60 Hz				
1	4 174 31	110 V - 50 Hz / 120 V - 60 Hz				
1	4 174 32	220-230 V - 50 Hz / 240-260 V - 60 Hz				
1	4 174 33	380-400 V - 50 Hz / 440-460 V - 60 Hz				
		Dial Cover				
		Sealable cover to protect the set value from the				
		operation that is not intended				
400	4 174 79	For all types of MPX ³		1	4 174 80	IP 65 enclosure to use in dusty areas as well as in
				1	4 174 81	presence of corrosive gas or liquid
						Yellow/red rotary handle
						With black rotary handle

3-pole contactors CTX³ and thermal overload relays RTX³

technical characteristics

					
Contactor		CTX³ mini		CTX³ 22	
Size		-		2	
Terminals type		screw		screw	
Rated operational voltage, Ue		690 V		690 V	
Rated insulation voltage, Ui		690 V		690 V	
Rated frequency		50/60 Hz		50/60 Hz	
Rated impulse withstand voltage, Uimp		6 kV		6 kV	
Max. operating rate in operation cycle per hour (AC-3)		1800		1800	
Durability in millions of operations	Mechanical	12		15	
	Electrical	1		2.5	
Type		6 A	9 A	12 A	16 A
Current and power	AC-1	Thermal current (A)		20	20
	AC-3	200/240 V (kW)		1.5	2.2
		(A)		7	9
		380/440 V (kW)		2.2	4
		(A)		6	9
		500/550 V (kW)		3	3.7
		(A)		5	6
		690 V (kW)		3	4
		(A)		4	5
		1000 V (kW)		-	-
		(A)		-	-
UL rating 50/60 Hz	Continuous current (A)		20	20	20
	Single phase	110/220 V (HP)	1/2	1/2	1
		220/240 V (HP)	1	1.5	2
	Three phase	200/208 V (HP)	-	-	-
		220/240 V (HP)	1.5	3	3
		440/480 V (HP)	3	5	7.5
		550/600 V (HP)	3	5	7.5
	NEMA size		00	00	00
	00		0	00	00
	00		0	0	1
	00		1	1	1
Weight and size	AC control	Weight (kg)		0.17	0.34
		Size (W x H x D) (mm)		45 x 58 x 57	45 x 73.5 x 87.4
	DC control	Weight (kg)		0.23	0.41
		Size (W x H x D) (mm)		45 x 58 x 69	45 x 73.5 x 103.6
Integrated auxiliary contacts		1 NO or 1 NC		1 NO + 1 NC	2 NO + 2 NC
Add on auxiliary block	Side mounting	Yes		Yes	Yes
	Front mounting	Yes		Yes	Yes
Thermal overload relay		RTX³ mini		RTX³ 40	
					
Terminals type	Standard RTX ³		-		screw
	Differential RTX ³		screw		screw
	Rated operational voltage, Ue		690 V		690 V
	Rated insulation voltage, Ui		690 V		690 V
	Rated impulse withstand voltage, Uimp		6 kV		6 kV
	Trip class		10 A		10 A
	Setting		0.1 to 16 A		0.1 to 40 A
Weight and size	Weight (kg)		0.1		0.17
	Size (W x H x D) (mm)		45 x 73 x 63		45 x 75 x 90
					

CTX³ 65		CTX³ 100		CTX³ 150		CTX³ 225		CTX³ 400		CTX³ 800	
4		5		6		7		8		9	
screw or cage		screw or cage		screw or cage		screw		screw		screw	
690 V		690 V		690 V		690 V		690 V		690 V	
1000 V		1000 V		1000 V		1000 V		1000 V		1000 V	
50/60 Hz		50/60 Hz		50/60 Hz		50/60 Hz		50/60 Hz		50/60 Hz	
8 kV		8 kV		8 kV		8 kV		8 kV		8 kV	
1800		1800		1200		1200		1200		1200	
12		12		5		5		5		2.5	
2		2		1		1		1		0.5	
50 A	65 A	75 A	85 A	100 A	130 A	150 A	185 A	225 A	265 A	330 A	400 A
70	100	110	135	160	160	210	230	275	300	350	450
15	18.5	22	25	30	37	45	55	75	80	90	125
55	65	75	85	105	130	150	185	225	265	330	400
22	30	37	45	55	60	75	90	132	147	160	200
50	65	75	85	105	130	150	185	225	265	330	400
30	33	37	45	55	60	70	110	132	147	160	225
43	60	64	75	85	90	100	180	200	225	280	350
30	33	37	45	55	55	55	110	140	160	200	250
28	35	42	45	65	60	60	120	150	185	225	300
30	30	37	27	37	75	75	132	132	147	147	147
23	23	28	28	28	53	53	90	90	105	105	105
70	100	110	135	160	160	210	230	275	300	350	450
3	5	5	7.5	10	10	15	15	15	-	-	-
10	15	15	15	20	20	25	30	40	-	-	-
20	25	25	30	30	40	40	60	60	75	100	125
25	30	30	40	40	40	50	60	75	100	125	150
40	50	50	60	75	75	100	125	150	200	250	300
50	60	60	75	75	75	75	125	150	200	250	300
2	2	2	3	3	3	4	4	4	5	5	5
0.9			1.6		2.4		5.4		9.2		22.4
55 × 106 × 119		70 × 140 × 135.8		95 × 158 × 130.3		138 × 203 × 185.1		163 × 243 × 204.4		285 × 312 × 245.3	
1.2		2.6		2.4		5.4		9.2		22.4	
55 × 106 × 146.4		70 × 140 × 172.3		95 × 158 × 130.3		138 × 203 × 185.1		163 × 243 × 204.4		285 × 312 × 245.3	
2 NO + 2 NC		2 NO + 2 NC		2 NO + 2 NC		2 NO + 2 NC		2 NO + 2 NC		2 NO + 2 NC	
Yes		Yes		Yes		Yes		Yes		Yes	
Yes		Yes		Yes		No		No		No	
RTX³ 65		RTX³ 100		RTX³ 150		RTX³ 225		RTX³ 400		RTX³ 800	
screw		screw		screw		-		-		-	
cage		cage		cage		screw		screw		screw	
690 V		690 V		690 V		690 V		690 V		690 V	
690 V		690 V		690 V		690 V		690 V		690 V	
6 kV		6 kV		6 kV		6 kV		6 kV		6 kV	
10 A		10 A		10 A		10 A		10 A		10 A	
9 to 65 A		18 to 100 A		45 to 150 A		65 to 240 A		85 to 400 A		200 to 800 A	
0.31/0.33		0.48/0.5		0.67		2.5		2.6		11.5	
55 × 81 × 100		70 × 97 × 110		95 × 109 × 113		147 × 141 × 184		151 × 171 × 198		360 × 530 × 212	

Mini contactors CTX³

6 to 16 A industrial contactors



4 170 00



4 170 01

Thermal relays and accessories

for CTX³ mini contactors



4 170 88



4 171 55

Dimensions p. 181

Pack	Cat. Nos	3-pole mini contactors	
		Integrated auxiliary contact	
		1 NO	1 NC
1	4 170 00	4 170 10	
1	4 170 01	4 170 11	
1	4 170 04	4 170 14	
1	4 170 06	4 170 16	
1	4 170 09	4 170 19	
1	4 170 20	4 170 30	
1	4 170 21	4 170 31	
1	4 170 24	4 170 34	
1	4 170 26	4 170 36	
1	4 170 29	4 170 39	
1	4 170 40	4 170 50	
1	4 170 41	4 170 51	
1	4 170 44	4 170 54	
1	4 170 46	4 170 56	
1	4 170 49	4 170 59	
1	4 170 60	4 170 70	
1	4 170 61	4 170 71	
1	4 170 64	4 170 74	
1	4 170 66	4 170 76	
1	4 170 69	4 170 79	
		4-pole mini contactors	
		Without integrated auxiliary contact	
		Power terminals: screw terminals	
		20 A	
		Max. operating current AC 1	Max. operating current AC 3
1	4 171 40	20 A	16 A
1	4 171 41	20 A	16 A
1	4 171 44	20 A	16 A
1	4 171 46	20 A	16 A
1	4 171 49	20 A	16 A

CTX³ control relays
p. 187



Thermal relays and accessories

for CTX³ mini contactors

Dimensions p. 181
Tripping curves see e-catalogue

Pack Cat. Nos Thermal overload relays for 3-pole mini contactors

		Class 10A
		Integrated auxiliary contacts 1 NO + 1 NC
1	4 170 80	0.16 A
1	4 170 81	0.25 A
1	4 170 82	0.40 A
1	4 170 83	0.63 A
1	4 170 84	1 A
1	4 170 85	1.6 A
1	4 170 86	2.5 A
1	4 170 87	4 A
1	4 170 88	6 A
1	4 170 89	8 A
1	4 170 90	9 A
1	4 170 91	10 A
1	4 170 92	13 A
1	4 170 93	16 A

Add on auxiliary blocks for mini contactors

Ith : 10 A

Front mounting

15	4 171 50
15	4 171 51
15	4 171 52
15	4 171 53
15	4 171 54
15	4 171 55
15	4 171 56
15	4 171 57

Side mounting

20	4 171 58
20	4 171 59

Interlock Unit

5 4 171 60 Mechanical interlock for mini contactors

Spare coils
please consult us

Mini contactors CTX³

technical characteristics and dimensions

Environmental conditions

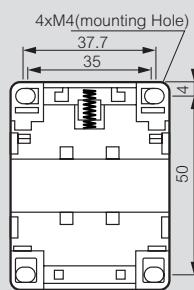
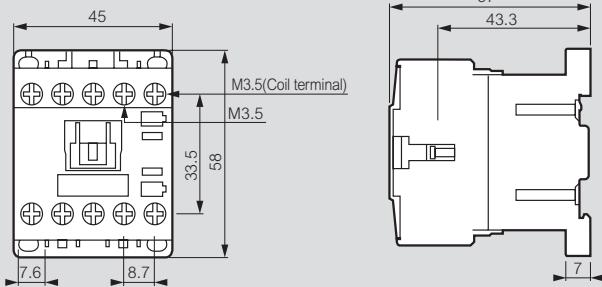
- Storage temperature: -30 °C to +65 °C
- Operating temperature: -5 °C to +40 °C
- Operating altitude: 2000 m
- Protection degree: IP 20
- Shock resistance: 5 G
- Vibration resistance (10-55 Hz): 2 G

Possible combinations of auxiliary blocks per contactor

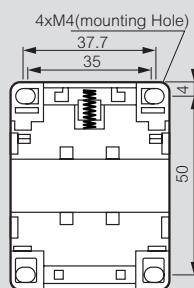
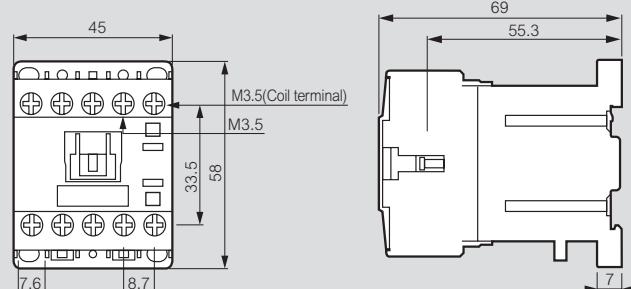
Auxiliary contact block	Maximum number of blocks		
	Side mounting (1 contact)	Front mounting (2 contacts)	Front mounting (4 contacts)
CTX ³ mini and control relay Control voltage : ~	2	0	1
	4	1	0
	6	0	0
CTX ³ mini and control relay Control voltage : =	2	0	0
	0	1	0

Mini contactors 3P and 4P and control relays

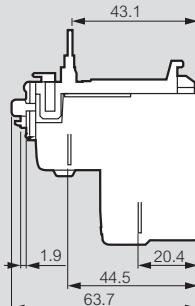
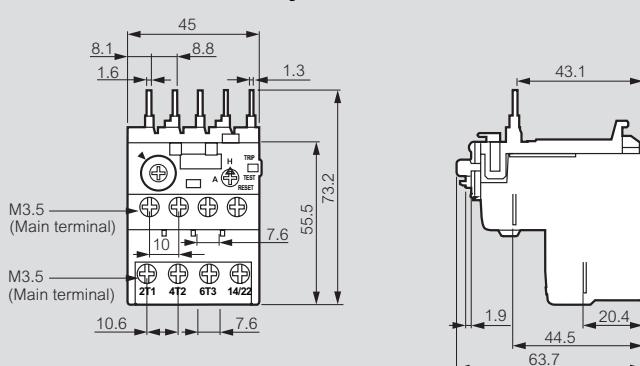
AC control



DC control

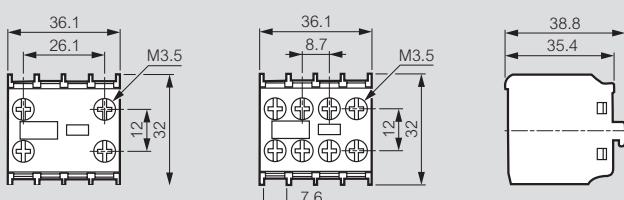


Thermal overload relays for mini contactors

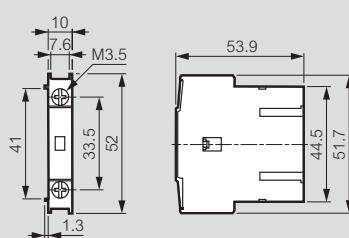


Auxiliary contacts

Front mounting



Side mounting



3-pole contactors CTX³

9 A to 100 A industrial contactors



Technical characteristics p. 188
Dimensions and coordination with circuit breakers see e-catalogue

Conform to IEC 60947-1, IEC 60947-4-1

Can be equipped with RTX³ thermal relays (p. 184) add-on auxiliary contact blocks, time delay blocks, capacitor switching units and CTX³ interlocking (p. 186)

Pack	Cat.Nos	CTX ³ 22			Pack	Cat.Nos	CTX ³ 65				
		With integrated auxiliary contacts Power terminals: screw terminals					With integrated auxiliary contacts				
		Screw terminals	3-phase motor 400/415 V	Control Voltage			Screw terminals	Cage terminals	Integrated auxiliary contacts		
1	4 160 80	4 kW	24 V \sim	1 NO + 1 NC	1	4 161 40	4 161 50	22 kW	24 V \sim		
1	4 160 81	4 kW	24 V $=$	1 NO + 1 NC	1	4 161 41	4 161 51	22 kW	24 V $=$		
1	4 160 84	4 kW	110 V \sim	1 NO + 1 NC	1	4 161 44	4 161 54	22 kW	110 V \sim		
1	4 160 86	4 kW	230 V \sim	1 NO + 1 NC	1	4 161 46	4 161 56	22 kW	230 V \sim		
1	4 160 89	4 kW	415 V \sim	1 NO + 1 NC	1	4 161 49	4 161 59	22 kW	415 V \sim		
		12 A (AC3) - 25 A (AC1)					1	4 161 60	4 161 70	30 kW	24 V \sim
1	4 160 90	5.5 kW	24 V \sim	1 NO + 1 NC	1	4 161 61	4 161 71	30 kW	24 V $=$		
1	4 160 91	5.5 kW	24 V $=$	1 NO + 1 NC	1	4 161 64	4 161 74	30 kW	110 V \sim		
1	4 160 94	5.5 kW	110 V \sim	1 NO + 1 NC	1	4 161 66	4 161 76	30 kW	230 V \sim		
1	4 160 96	5.5 kW	230 V \sim	1 NO + 1 NC	1	4 161 69	4 161 79	30 kW	415 V \sim		
1	4 160 99	5.5 kW	415 V \sim	1 NO + 1 NC							
		18 A (AC3) - 40 A (AC1)									
1	4 161 00	7.5 kW	24 V \sim	1 NO + 1 NC							
1	4 161 01	7.5 kW	24 V $=$	1 NO + 1 NC							
1	4 161 04	7.5 kW	110 V \sim	1 NO + 1 NC							
1	4 161 06	7.5 kW	230 V \sim	1 NO + 1 NC							
1	4 161 09	7.5 kW	415 V \sim	1 NO + 1 NC							
		22 A (AC3) - 40 A (AC1)									
1	4 161 10	11 kW	24 V \sim	1 NO + 1 NC							
1	4 161 11	11 kW	24 V $=$	1 NO + 1 NC							
1	4 161 14	11 kW	110 V \sim	1 NO + 1 NC							
1	4 161 16	11 kW	230 V \sim	1 NO + 1 NC							
1	4 161 19	11 kW	415 V \sim	1 NO + 1 NC							
		CTX ³ 40									
		With integrated auxiliary contacts Power terminals: screw terminals									
		Screw terminals	3-phase motor 400/415 V	Control Voltage							
1	4 161 20	15 kW	24 V \sim	2 NO + 2 NC							
1	4 161 21	15 kW	24 V $=$	2 NO + 2 NC							
1	4 161 24	15 kW	110 V \sim	2 NO + 2 NC							
1	4 161 26	15 kW	230 V \sim	2 NO + 2 NC							
1	4 161 29	15 kW	415 V \sim	2 NO + 2 NC							
		32 A (AC3) - 50 A (AC1)									
		Screw terminals	3-phase motor 400/415 V	Control Voltage							
1	4 161 30	18.5 kW	24 V \sim	2 NO + 2 NC							
1	4 161 31	18.5 kW	24 V $=$	2 NO + 2 NC							
1	4 161 34	18.5 kW	110 V \sim	2 NO + 2 NC							
1	4 161 36	18.5 kW	230 V \sim	2 NO + 2 NC							
1	4 161 39	18.5 kW	415 V \sim	2 NO + 2 NC							
		40 A (AC3) - 60 A (AC1)									
		Screw terminals	3-phase motor 400/415 V	Control Voltage							
1	4 161 40	22 kW	24 V \sim	2 NO + 2 NC							
1	4 161 41	22 kW	24 V $=$	2 NO + 2 NC							
1	4 161 44	22 kW	110 V \sim	2 NO + 2 NC							
1	4 161 46	22 kW	230 V \sim	2 NO + 2 NC							
1	4 161 49	22 kW	415 V \sim	2 NO + 2 NC							
		50 A (AC3) - 70 A (AC1)									
		Screw terminals	3-phase motor 400/415 V	Control Voltage							
1	4 161 50	22 kW	24 V \sim	2 NO + 2 NC							
1	4 161 51	22 kW	24 V $=$	2 NO + 2 NC							
1	4 161 54	22 kW	110 V \sim	2 NO + 2 NC							
1	4 161 56	22 kW	230 V \sim	2 NO + 2 NC							
1	4 161 59	22 kW	415 V \sim	2 NO + 2 NC							
		65 A (AC3) - 100 A (AC1)									
		Screw terminals	3-phase motor 400/415 V	Control Voltage							
1	4 161 60	30 kW	24 V \sim	2 NO + 2 NC							
1	4 161 61	30 kW	24 V $=$	2 NO + 2 NC							
1	4 161 64	30 kW	110 V \sim	2 NO + 2 NC							
1	4 161 66	30 kW	230 V \sim	2 NO + 2 NC							
1	4 161 69	30 kW	415 V \sim	2 NO + 2 NC							
		75 A (AC3) - 110 A (AC1)									
		Screw terminals	3-phase motor 400/415 V	Control Voltage							
1	4 161 90	37 kW	24 V \sim	2 NO + 2 NC							
1	4 161 91	37 kW	24 V $=$	2 NO + 2 NC							
1	4 161 94	37 kW	110 V \sim	2 NO + 2 NC							
1	4 161 96	37 kW	230 V \sim	2 NO + 2 NC							
1	4 161 99	37 kW	415 V \sim	2 NO + 2 NC							
		85 A (AC3) - 135 A (AC1)									
		Screw terminals	3-phase motor 400/415 V	Control Voltage							
1	4 162 00	45 kW	24 V \sim	2 NO + 2 NC							
1	4 162 01	45 kW	24 V $=$	2 NO + 2 NC							
1	4 162 04	45 kW	110 V \sim	2 NO + 2 NC							
1	4 162 06	45 kW	230 V \sim	2 NO + 2 NC							
1	4 162 09	45 kW	415 V \sim	2 NO + 2 NC							
		100 A (AC3) - 160 A (AC1)									
		Screw terminals	3-phase motor 400/415 V	Control Voltage							
1	4 162 20	55 kW	24 V \sim	2 NO + 2 NC							
1	4 162 21	55 kW	24 V $=$	2 NO + 2 NC							
1	4 162 24	55 kW	110 V \sim	2 NO + 2 NC							
1	4 162 26	55 kW	230 V \sim	2 NO + 2 NC							
1	4 162 29	55 kW	415 V \sim	2 NO + 2 NC							

For dimensions, wiring capacity and coordination with circuit breakers see e-catalogue



Add-on auxiliary contact blocks p. 186



3-pole contactors CTX³

130 A to 800 A industrial contactors



Technical characteristics p. 188
Dimensions and coordination with circuit breakers see e-catalogue

Conform to IEC 60947-1, IEC 60947-4-1

Can be equipped with RTX³ thermal relays (p. 184-185) add-on auxiliary contact blocks, time delay blocks (except CTX³ 225/400/800) and CTX³ interlocking (p. 186)

Pack	Cat.Nos		CTX ³ 150			Pack	Cat.Nos		CTX ³ 800		
			With integrated auxiliary contacts						With integrated auxiliary contacts		
	Screw terminals	Cage terminals	130 A (AC3) - 160 A (AC1)				Screw terminals	500 A (AC3) - 580 A (AC1)		Control Voltage	
1	4 162 40	4 162 50	3-phase motor 400/415 V	Control Voltage	Integrated auxiliary contacts	1	4 163 36	265 kW	200-240 V~/	2 NO + 2 NC	Integrated auxiliary contacts
1	4 162 41	4 162 51	60 kW	24 V~	2 NO + 2 NC	1	4 163 39	265 kW	380-450 V~	2 NO + 2 NC	
1	4 162 46	4 162 56	60 kW	24 V _{DC}	2 NO + 2 NC						
1	4 162 49	4 162 59	60 kW	100-240 V~/	2 NO + 2 NC						
			60 kW	400-440 V~	2 NO + 2 NC						
			150 A (AC3) - 210 A (AC1)				630 A (AC3) - 660 A (AC1)		Control Voltage		
1	4 162 60	4 162 70	75 kW	24 V~	2 NO + 2 NC	1	4 163 46	330 kW	200-240 V~/	2 NO + 2 NC	Integrated auxiliary contacts
1	4 162 61	4 162 71	75 kW	24 V _{DC}	2 NO + 2 NC	1	4 163 49	330 kW	380-450 V~	2 NO + 2 NC	
1	4 162 66	4 162 76	75 kW	100-240 V~/	2 NO + 2 NC						
1	4 162 69	4 162 79	75 kW	400-440 V~	2 NO + 2 NC						
			800 A (AC3) - 900 A (AC1)				800 A (AC3) - 900 A (AC1)		Control Voltage		
									200-240 V~/	2 NO + 2 NC	
									380-450 V~	2 NO + 2 NC	
			CTX³ 225								
			With integrated auxiliary contacts								
			185 A (AC3) - 230 A (AC1)								
				Screw terminals	Integrated auxiliary contacts						
1	4 162 80	3-phase motor 400/415 V	90 kW	24 V~/	2 NO + 2 NC						
1	4 162 86		90 kW	100-240 V~/	2 NO + 2 NC						
1	4 162 89		90 kW	380-450 V~	2 NO + 2 NC						
			225 A (AC3) - 275 A (AC1)								
1	4 162 90	132 kW	24 V~/	2 NO + 2 NC							
1	4 162 96		132 kW	100-240 V~/	2 NO + 2 NC						
1	4 162 99		132 kW	380-450 V~	2 NO + 2 NC						
			CTX³ 400								
			With integrated auxiliary contacts								
			265 A (AC3) - 300 A (AC1)								
1	4 163 06	3-phase motor 400/415 V	147 kW	100-240 V~/	2 NO + 2 NC						
1	4 163 09		147 kW	380-450 V~	2 NO + 2 NC						
			330 A (AC3) - 350 A (AC1)								
1	4 163 16	160 kW	100-240 V~/	2 NO + 2 NC							
1	4 163 19		160 kW	380-450 V~	2 NO + 2 NC						
			400 A (AC3) - 450 A (AC1)								
1	4 163 26	200 kW	100-240 V~/	2 NO + 2 NC							
1	4 163 29		200 kW	380-450 V~	2 NO + 2 NC						

Add-on auxiliary contact blocks p. 186



Other control voltage, spare coils for CTX³ 3-pole contactors, please, consult us

Thermal relays RTX³

for CTX³ 3-pole industrial contactors



 Technical characteristics **p. 188**
Dimensions and coordination with circuit breakers [see e-catalogue](#)

Thermal protection against overloads, long starting times and lasting stalling of the motor
Differential type ensures a better protection in case of one phase failure thanks to faster tripping
Conform to IEC 60 947-1, IEC 60 947-4-1

Pack	Cat.Nos	Thermal overload relays		
		Class 10A Integrated auxiliary contacts 1 NO + 1 NC		
		RTX³ 40 For CTX ³ 22 and 40 With screw terminals		
		Type	Adjustment range	
		standard diff.	I min. (A)	I max. (A)
1	4 166 40	4 166 60	0.1	0.16
1	4 166 41	4 166 61	0.16	0.25
1	4 166 42	4 166 62	0.25	0.4
1	4 166 43	4 166 63	0.4	0.63
1	4 166 44	4 166 64	0.63	1
1	4 166 45	4 166 65	1	1.6
1	4 166 46	4 166 66	1.6	2.5
1	4 166 47	4 166 67	2.5	4
1	4 166 48	4 166 68	4	6
1	4 166 49	4 166 69	5	8
1	4 166 50	4 166 70	6	9
1	4 166 51	4 166 71	7	10
1	4 166 52	4 166 72	9	13
1	4 166 53	4 166 73	12	18
1	4 166 54	4 166 74	16	22
1	4 166 55	4 166 75	18	25
1	4 166 56	4 166 76	22	32
1	4 166 57	4 166 77	28	40
		RTX³ 65 For CTX ³ 65 Standard type with screw terminals Differential type with cage terminals		
1	4 166 83	4 167 03	9	13
1	4 166 84	4 167 04	12	18
1	4 166 85	4 167 05	16	22
1	4 166 86	4 167 06	18	25
1	4 166 87	4 167 07	24	36
1	4 166 88	4 167 08	28	40
1	4 166 89	4 167 09	34	50
1	4 166 90	4 167 10	45	65

Pack	Cat. Nos	Thermal overload relays (continued)		
		Class 10A Integrated auxiliary contacts 1 NO + 1 NC		
		RTX³ 100		
		For CTX ³ 100		
		Standard type with screw terminals		
		Differential type with cage terminals		
		Adjustment range		
		Type	I min. (A)	I max. (A)
		standard	diff.	
1	4 167 23	4 167 43	18	25
1	4 167 24	4 167 44	24	36
1	4 167 25	4 167 45	28	40
1	4 167 26	4 167 46	34	50
1	4 167 27	4 167 47	45	65
1	4 167 28	4 167 48	54	75
1	4 167 29	4 167 49	63	85
1	4 167 30	4 167 50	70	95
1	4 167 31	4 167 51	80	100
		RTX³ 150		
		For CTX ³ 150		
		Standard type with screw terminals		
		Differential type with cage terminals		
1	4 167 60	4 167 70	45	65
1	4 167 61	4 167 71	54	75
1	4 167 62	4 167 72	63	85
1	4 167 63	4 167 73	80	105
1	4 167 64	4 167 74	95	130
1	4 167 65	4 167 75	110	150

Separate mounting units

- To mount the relays separately from contactors, on DIN rail or panel by fixing screws
- For RTX³ 40 up to 32 A
- For RTX³ 40 40 A
- For RTX³ 65 with screw terminals
- For RTX³ 65 with cage terminals
- For RTX³ 100 with screw terminals
- For RTX³ 100 with cage terminals
- For RTX³ 150 with screw terminals
- For RTX³ 150 with cage terminals



For dimensions and coordination
with circuit breakers
see e-catalogue

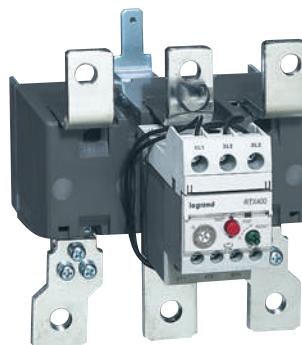


Thermal relays RTX³

for CTX³ 3-pole industrial contactors



4 167 84



4 167 91

4-pole contactors CTX³

40 A to 900 A industrial contactors



4 164 36



4 164 56



4 164 86

Technical characteristics **p. 188**

Dimensions and coordination with circuit breakers **see e-catalogue**

Conform to IEC 60 947-1, IEC 60 947-4-1

Technical characteristics **p. 188**

Dimensions and coordination with circuit breakers **see e-catalogue**

Conform to IEC 60 947-1, IEC 60 947-4-1

Pack Cat. Nos Thermal overload relays

		Class 10A Integrated auxiliary contacts 1 NO + 1 NC	
RTX³ 225			
	For CTX ³ 225		
	With screw terminals		
1	Type diff	I min. (A)	Adjustment range
1	4 167 80	65	100
1	4 167 81	85	125
1	4 167 82	100	160
1	4 167 83	120	185
1	4 167 84	160	240
RTX³ 400			
	For CTX ³ 400		
	With screw terminals		
1	4 167 86	85	125
1	4 167 87	100	160
1	4 167 88	120	185
1	4 167 89	160	240
1	4 167 90	200	330
1	4 167 91	260	400
RTX³ 800			
	For CTX ³ 800		
	With screw terminals		
1	4 167 92	200	300
1	4 167 93	260	400
1	4 167 94	400	600
1	4 167 95	520	800

Pack Cat. Nos RTX³ remote reset unit

		Flexible cable to reset the relay on the panel door For RTX ³ 40/65/100	
1	4 168 92	Length 400 mm	
1	4 168 93	Length 500 mm	
1	4 168 94	Length 600 mm	

Pack Cat. Nos Contactors CTX³

		Power terminals: screw terminals	
Without integrated auxiliary contact			
1	4 164 26	Max. operating current AC 1	Max. operating current AC 3
1	4 164 36	40 A	22 A
1	4 164 46	60 A	40 A
1	4 164 56	100 A	65 A
		135 A	85 A
With integrated auxiliary contacts			
1	4 164 66	Auxiliary contacts: 2 NO + 2 NC	Control Voltage
1	4 164 76	165 A	230 V~
1	4 164 86	250 A	100-240 V~/..
1	4 164 96	330 A	100-240 V~/..
1	4 165 06	420 A	100-240 V~/..
1	4 165 16	500 A	400 A
1	4 165 26	750 A	630 A
		900 A	800 A

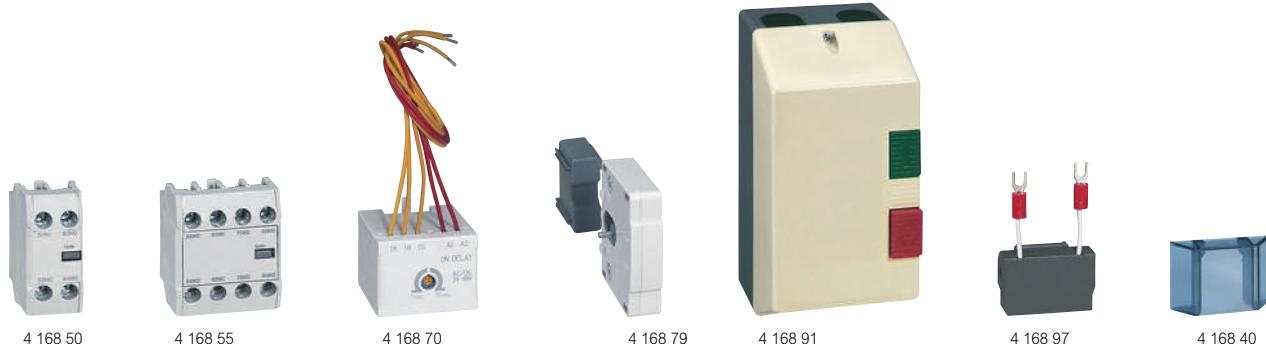
Mechanichal interlocks
p. 186



For dimensions of 4 pole contactors
see e-catalogue



CTX³ accessories



Pack	Cat. Nos	CTX ³ add-on auxiliary contact blocks	Pack	Cat. Nos	CTX ³ interlocking
		Front mounting For CTX ³ 3P from 9 A to 150 A (AC-3) and CTX ³ 4P from 40 A to 135 A (AC-1) 2 and 4-pole Ith: 16 A	1	4 168 79	Component parts for assembling by customer Horizontal mounting
20	4 168 50	1 NO + 1 NC	1	4 168 80	Interlock units Mechanical interlocks for CTX ³ 4P from 40 to 135 A (AC-1) (p. 185)
20	4 168 51	2 NO	1	4 168 87	Mechanical interlocks for CTX ³ 3P from 9 to 150 A (p. 182-183)
20	4 168 52	2 NC	1	4 168 88	Provides 2 NC contacts for use in electrical interlocking
10	4 168 53	4 NO	1	4 168 89	Mechanical interlocks for CTX ³ 3P from 185 to 400 A and CTX ³ 4P from 165 to 500 A (p. 183)
10	4 168 54	3 NO + 1 NC	1	4 168 89	Mechanical interlocks for CTX ³ 3P from 500 to 800 A (p. 183)
10	4 168 55	2 NO + 2 NC	1	4 168 89	Mechanical interlocks for CTX ³ 4P from 750 to 900 A (p. 185)
10	4 168 56	1 NO + 3 NC			Wire kits Used for making reversing between two 3P contactors (varistors)
10	4 168 57	4 NC	4	4 168 82	For CTX ³ 22
		Side mounting 2-pole Mounting on both sides	6	4 168 83	For CTX ³ 40
1	4 168 58	For CTX ³ 3P from 9 A to 150 A (AC-3) 1 NO + 1 NC - Ith: 16 A	2	4 168 84	For CTX ³ 65
1	4 168 59	For CTX ³ 3P from 185 A to 800 A (AC-3) and CTX ³ 4P from 165 A to 900 A (AC-1) 1 NO + 1 NC - Ith: 16 A	1	4 168 85	For CTX ³ 100
1	4 168 49	For CTX ³ 4P from 40 A to 135 A (AC-1) 1 NO + 1 NC - Ith: 16 A			Boxes for motor starter For CTX ³ 22 equipped with RTX ³ 40 (0.1 - 22 A)
		CTX³ time delay blocks For CTX ³ 3P form 9 A to 150 A (AC-3) Time delay: 1 to 30 s Front mounting	1	4 168 90	Without pushbuttons
		On delay 1 NO + 1 NC - Ith: 16 A	1	4 168 91	With pushbuttons
1	4 168 70	24-48 V~/=			CTX³ transient voltage suppressor blocks Absorbs the surge arising out of the coil of the contactor (varistors)
1	4 168 71	110-230 V~	10	4 168 95	24-48 V V~/=
		Off delay 1 NO + 1 NC - Ith: 16 A	10	4 168 96	100-125 V V~/=
1	4 168 72	24-48 V~/=	10	4 168 97	200-240 V V~/=
1	4 168 73	110-230 V~	10	4 168 98	380-400 V~
		CTX³ capacitor switching units AC-6b Operating power from 9.7 kVAR to 62 kVAR (400/440 V)			CTX³ terminals covers
1	4 168 74	For contactors CTX ³ 3P from 9 to 40 A	1	4 168 42	For CTX ³ 3P from 185 to 225 A (AC-3)
1	4 168 75	For contactors CTX ³ 3P 50 and 65 A with screw terminals	1	4 168 43	For CTX ³ 3P from 265 to 400 A (AC-3)
1	4 168 76	For contactors CTX ³ 3P 50 to 100 A with cage terminals	1	4 168 44	For CTX ³ 3P from 500 to 800 A (AC-3)
1	4 168 77	For contactors CTX ³ 3P 75 to 100 A with screw terminals	1	4 168 45	For CTX ³ 4P from 165 to 330 A (AC-1)
			1	4 168 46	For CTX ³ 4P from 420 to 500 A (AC-1)
			1	4 168 47	For CTX ³ 4P from 750 to 900 A (AC-1)
					CTX³ safety front cover For CTX ³ 3P from 9 to 150 A (AC-3) and CTX ³ 4P from 40 to 135 A (AC-1)
			150	4 168 40	For CTX ³ 3P from 85 to 800 A (AC-3) and CTX 4P from 165 to 900 A (AC-1)
			150	4 168 41	
					Distant reset flexible cables for thermal relays
			1	4 168 92	400 mm
			1	4 168 93	500 mm
			1	4 168 94	600 mm

Automation control units
for supply invertors p. 157



Control relays CTX³



4 168 10

Technical characteristics p. 188
Dimensions see e-catalogue

Pack	Cat. Nos	CTX ³ control relays
		4-pole Conform to IEC 60 947 Ith = 10 A Low consuption coil
		4 NO
1	4 168 00	24 V~
1	4 168 01	24 V _{dc}
1	4 168 04	110 V~
1	4 168 06	230 V~
1	4 168 09	400 V~
		3 NO + 1 NC
1	4 168 10	24 V~
1	4 168 11	24 V _{dc}
1	4 168 14	110 V~
1	4 168 16	230 V~
1	4 168 19	400 V~
		2 NO + 2 NC
1	4 168 20	24 V~
1	4 168 21	24 V _{dc}
1	4 168 24	110 V~
1	4 168 26	230 V~
1	4 168 29	400 V~

Contactors CTX³

technical characteristics

Accessory

Interlock unit, Cat.No 4 168 80

The mechanical interlock unit provides 2NC contacts for use in electrical interlocking of two contactors

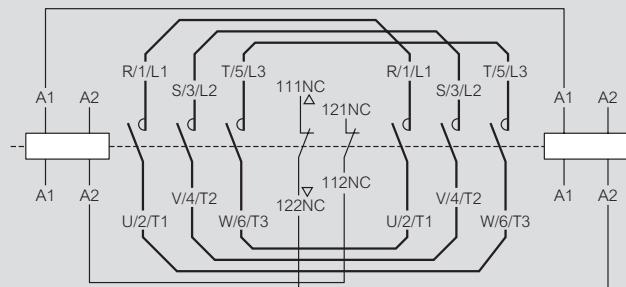
Wire kits

Used for making reversing circuit between two contactors

Contactor	Wire kit		Interlock unit	
	Cat.No	Weight	Cat.No	Weight
CTX ³ 22	4 168 82	0.04 kg	4 168 80	0.06 kg
CTX ³ 40	4 168 83	0.05 kg		
CTX ³ 65	4 168 84	0.12 kg		
CTX ³ 100	4 168 85	0.33 kg		
CTX ³ 150	-	-		

Rating of the contacts in the interlocks

Rated operation current (A)	AC15 duty (A600)	Rated operation voltage (V)	600
	120 V	Rated insulation voltage (V)	600
	240 V	Rated frequency (Hz)	50/60
	380 V	Rated thermal current (A)	10
	480 V		
	500 V		
	600 V		
DC13 duty (Q300)	125 V		
	250 V		



CTX³ 9 A - 150 A typical circuit diagram for reversing contactor

Time delay blocks Cat.No 4 168 70/71/72/73

Applying contactors	Cat.No	Rated voltage	Performance
CTX ³ 22 to CTX ³ 150	4 168 70	AC/DC 24 to 48 V	<ul style="list-style-type: none"> Mounting: Head on Contact: 1 NC Time delay: 1s to 30s On delay, Off delay Frequency: AC 50/60 Hz Operation: Min. voltage 85% Max. voltage 110% Accuracy of setting time: ±20 %
	4 168 71	AC 110 to 230 V	
	4 168 72	AC/DC 24 to 48 V	
	4 168 73	AC 110 to 230 V	

Contactors CTX³

technical characteristics

Environmental conditions

- Storage temperature: -50 °C to +40 °C
- Operating temperature: -5 °C to +40 °C
- Operating altitude: 3000 m
- Protection degree: IP 20
- Shock resistance: open 8 G / closed 10 G
- Vibration resistance (5-300 Hz): open 2 G / closed 4 G

Type 2 coordination with MPCBs MPX³

According to IEC 60947-4-1
Short circuit current $I_q = 50 \text{ kA}$

Voltage 400/415 V~ 50/60 Hz

Standard motors AC-3 at 400/415 V 1500 rpm		MPCB type		Manual motor starter		Contactor	
Rated Power (kW)	Current (A)	Type	Rating (A)	Thermal overload release setting range (A)	Magnetic release response current (A)	Type	Rating (A)
-	-	MPX ³ 32S	0.16	0.1 - 0.16	2.08	CTX ³ 22	9
0.06	0.20	MPX ³ 32S	0.25	0.16 - 0.25	3.25	CTX ³ 22	9
0.09	0.30	MPX ³ 32S	0.40	0.25 - 0.4	5.2	CTX ³ 22	9
0.12	0.40	MPX ³ 32S	0.63	0.4 - 0.63	8.19	CTX ³ 22	9
0.18	0.60	MPX ³ 32S	0.63	0.4 - 0.63	8.19	CTX ³ 22	9
0.25	0.80	MPX ³ 32S	1	0.63 - 1	13	CTX ³ 22	9
0.37	1.1	MPX ³ 32S	1.6	1 - 1.6	20.8	CTX ³ 22	9
0.55	1.5	MPX ³ 32S	1.6	1 - 1.6	20.8	CTX ³ 22	9
0.75	1.9	MPX ³ 32S	2.5	1.6 - 2.5	32.5	CTX ³ 22	12
1.1	2.7	MPX ³ 32S	4	2.5 - 4	52	CTX ³ 22	18
1.5	3.6	MPX ³ 32S	4	2.5 - 4	52	CTX ³ 22	18
2.2	5.2	MPX ³ 32S	6	4 - 6	78	CTX ³ 22	18
3	6.8	MPX ³ 32S	8	5 - 8	104	CTX ³ 22	18
4	9	MPX ³ 32S	10	6 - 10	130	CTX ³ 22	18
5.5	11.5	MPX ³ 32H	13	9 - 13	169	CTX ³ 22	22
7.5	15.5	MPX ³ 32H	17	11 - 17	221	CTX ³ 22	22
10	20	MPX ³ 32H	22	14 - 22	286	CTX ³ 40	32
11	22	MPX ³ 32H	25	18 - 26	338	CTX ³ 40	32
15	29	MPX ³ 32H	32	22 - 32	416	CTX ³ 40	32
18.5	35	MPX ³ 63H	40	28 - 40	520	CTX ³ 65	50
22	41	MPX ³ 63H	50	34 - 50	650	CTX ³ 65	50
30	55	MPX ³ 63H	63	45 - 63	819	CTX ³ 65	65
37	67	MPX ³ 100H	75	55 - 75	975	CTX ³ 100	75
-	-	MPX ³ 100H	90	70 - 90	1170	CTX ³ 100	85
45	80	MPX ³ 100H	100	80 - 100	1300	CTX ³ 100	85

Definition type 2 coordination according to IEC 947-4-1:

- The contactor or the starter must not endanger persons or systems in the event of a short-circuit.
- The contactor or the starter must be suitable for further use.
- No damage to the overload relay or other parts may occur with the exception of welding of the contactor or starter contacts provided that these can be easily separated without significant deformation (such as with a screwdriver).

CTX³ capacitor switching units Cat.Nos 4 168 74/75/76/77

Capacitor unit is connected to the terminals of the contactor to reduce the high inrush current.
IEC 60947-4-1 AC 6b

Type	Contactor		Maximum operating power (kvar)			Max. Peak current (A)
			220 - 240 V	400 - 440 V	500 - 550 V	
4 168 74	CTX ³ 22	9 A	5	9.7	14	560
	CTX ³ 22	12 A	6.7	12.5	18	560
	CTX ³ 22	18 A	8.5	16.7	24	850
	CTX ³ 22	22 A	10	18	26	1250
	CTX ³ 40	32 A	15	25	36	1900
	CTX ³ 40	40 A	20	33.3	48	2160
4 168 75/76	CTX ³ 65	50 A	20	40	58	2160
	CTX ³ 65	65 A	25	45.7	66	3040
4 168 76/77	CTX ³ 100	75 A	29.7	54	78	3040
	CTX ³ 100	85 A	35	60	92	3040
	CTX ³ 100	100 A	37	62	94	3040

Note: - When the switch is closed capacitor must be discharged before recharged. (Maximum residual voltage at terminals $\leq 50 \text{ V}$)
- To prevent short current, gG type fuse must be 1.5 - 2 times than rated current

CTX³ capacitor switching units Cat.Nos 4 168 74/75/76/77 (continued)

Features of capacitor unit (Pre-loading resistor)

- Damping resistor that can limit the inrush current up to $60 \times I_n$ by closing earlier than the main contacts of the contactor
- No heat loss by the serial resistor
- Eliminates the switching surge
- Improves the performance of the capacitor system

Operation sequence

Capacitor unit: OFF
Contactor: OFF

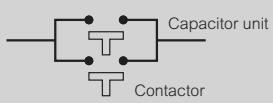


Fig.1

Capacitor unit: ON
Contactor: OFF

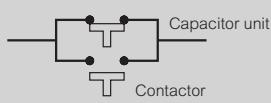


Fig.2

Capacitor unit: OFF
Contactor: ON

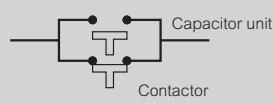
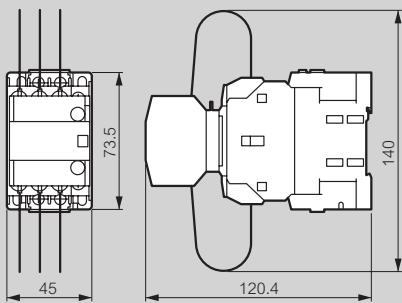


Fig.3

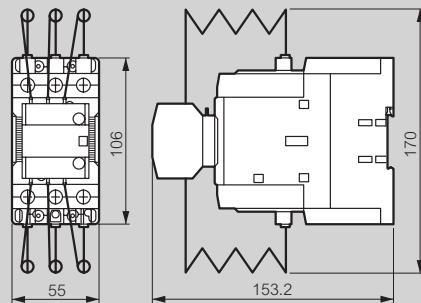
Note - Closing sequence: Fig.1 => Fig.2 => Fig.3
Opening sequence: Fig.3 => Fig.1

Overall dimensions of contactors equipped with CTX³ switching units

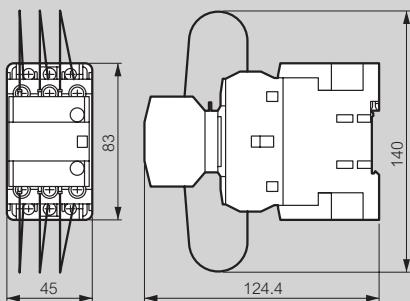
Cat.No 4 168 74 on CTX³ 22



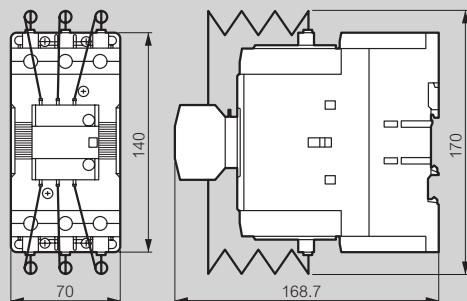
Cat.No 4 168 75/76 on CTX³ 65



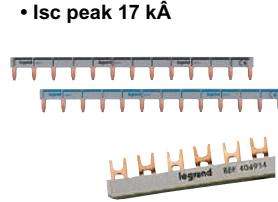
Cat.No 4 168 74 on CTX³ 40



Cat.No 4 168 76/77 on CTX³ 100



Supply busbars and distribution blocks

SUPPLY BUSBARS FROM 63 TO 90 A										
 <ul style="list-style-type: none"> Isc peak 17 kA 	Lenght	Universal 1-pole + neutral or 1-pole	Single pole for auxiliary	2-pole	2-pole balanced on 3-phase	3-pole	3-pole for auxiliary	4-pole		
	Prong-type									
	1 row	4 049 26/28	-	4 049 38	4 049 40	4 049 42	-	4 049 44		
	meter	4 049 37	4 049 33	4 049 39	4 049 41	4 049 43	4 049 34	4 049 45		
	Fork-type									
	1 row	4 049 11	-	4 049 13	4 049 15	4 049 17	-	4 049 19		
	meter	4 049 12	4 049 09	4 049 14	4 049 16	4 049 18	4 049 10	4 049 20		
	DISTRIBUTION TERMINAL BLOCKS FROM 63 TO 100 A									
	 <ul style="list-style-type: none"> Isc peak 10 kA 	Number of outputs	Bar terminal blocks with screws		Insulated terminal blocks IP 2X (XXB)		black			
		4	0 048 01	0 048 20	0 048 50	0 048 40	0 048 30			
		6			0 048 16	0 048 15				
		8	0 048 03	0 048 22	0 048 52	0 048 42	0 048 32			
		12		0 048 24	0 048 54	0 048 44	0 048 34			
		14	0 048 05							
		16		0 048 25		0 048 45	0 048 35			
		19	0 048 06							
		21		0 048 26		0 048 46	0 048 36			
		24	0 048 07			0 048 48	0 048 38			
		33		0 048 28						
MODULAR DISTRIBUTION BLOCKS FROM 40 TO 250 A										
 <ul style="list-style-type: none"> Isc peak 14.5 to 42 kA 	Admissible maximum rating (A)	2-pole Number and section of flexible conductors (mm ²)		4-pole Number and section of flexible conductors (mm ²)		Terminal blocks IP 2X				
	Cat.Nos	Inputs	Outputs	Cat.Nos	Inputs	Outputs	Earth	Neutral (mm ²)		
	40	0 048 81	2 x 10	11 x 4	0 048 85	2 x 10	11 x 4	0 048 34	0 048 44	12 x 6
	100	0 048 80	2 x 16	5 x 10	0 048 84	2 x 16	5 x 10	0 048 32	0 048 42	8 x 6
	125	0 048 82	2 x 25	2 x 16 + 11 x 10	0 048 88	2 x 25	2 x 25 + 11 x 10	0 048 35	0 048 45	16 x 6
					0 048 86	2 x 25	2 x 16 + 7 x 10	0 048 34	0 048 44	12 x 6
	160				0 048 76	1 x 35	1 x 25 + 1 x 16 + 14 x 10	0 048 36	0 048 46	21 x 6
	250				0 048 79	1 x 70	2 x 25 + 4 x 16 + 8 x 10	0 048 35	0 048 45	16 x 6
SINGLE POLE MODULAR DISTRIBUTION BLOCKS AND DISTRIBUTION TERMINALS FROM 125 TO 250 A										
 <ul style="list-style-type: none"> Isc peak 27 to 60 kA 	Admissible maximum rating (A)	Cat.Nos		Number and section of conductors per pole (mm ²)						
	125	0 048 71		Inputs		4 x 35		12 x 10		
	160	0 048 83		Outputs		1 x 50 (flexible bar 13 mm max.)	3 x 25 + 2 x 16 + 7 x 10			
		0 048 67 (distribution terminal)		Direct into the downstream terminal			6 x 25			
	250	0 048 73		1 x 120 (flexible bar 16 mm max.)			6 x 25 + 4 x 10			
		0 048 68 (distribution terminal)		Direct into the downstream terminal			4 x 35 + 2 x 25			
POWER DISTRIBUTION BLOCKS FROM 125 TO 400 A										
 <ul style="list-style-type: none"> Isc peak 20 to 75 kA 	Admissible maximum rating (A)	Extra-flat Number and section of conductors per pole (mm ²)			Stepped Number and section of conductors per pole (mm ²)					
	Cat.Nos	Inputs	Outputs	Cat.Nos	Inputs	Outputs				
	125	0 374 47	1 x 35	10 x 16 (Ph) 17 x 16 (N)	0 373 95	4 bars 12 x 4 mm receiving 5 connectors 2 x 10 each				
				0 374 30	1 x 35	5 x 25				
	160			0 374 31	1 x 70	5 x 35				
		0 374 00	1 x 150	1 x 70 or 1 x 50 + 1 x 35 or 2 x 35	0 374 35	1 x 120	5 x 50			
	250			0 373 08	2 x Ø8.5 mm		21 holes M6 70 mm ² max. connectors			
				0 374 42	2 x 185		15 holes M6 15 holes M8			

Supply busbars, entry terminals

"standard" distribution



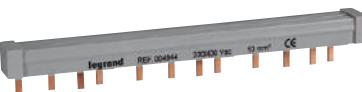
4 049 26



4 049 42



4 049 38



4 049 44



4 049 14



4 049 05

Technical characteristics [see e-catalogue](#)

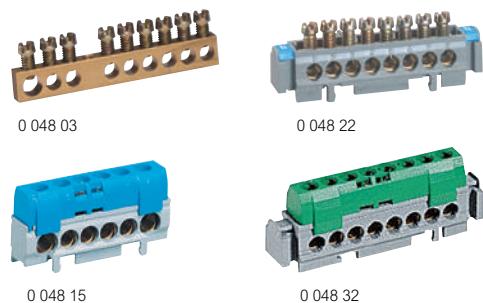
Pack	Cat.Nos	Prong-type supply busbars
Universal single pole + neutral		
Reversible: blue for neutral, black for live		
20	4 049 26	Length Max. number of devices connected
20	4 049 28	1 row 13
10	4 049 37	1 row 18
		Meter 57
Single pole for auxiliary		
10	4 049 33	Meter 37
Double pole		
50	4 049 38 ¹	Length Max. number of devices connected
10	4 049 39	1 row 6
Double pole balanced on 3 phases		
3	4 049 40 ¹	1 row 6
10	4 049 41	Meter 28
Three pole		
40	4 049 42 ¹	Length Max. number of devices connected
10	4 049 43	1 row 4
		Meter 19
Three pole for auxiliary		
10	4 049 34	Meter 16
Four pole		
30	4 049 44	Length Max. number of devices connected
10	4 049 45	1 row 3
		Meter 14

Pack	Cat.Nos	Fork-type supply busbars
Single pole		
Length Max. number of devices connected		
20	4 049 11	1 row 12
10	4 049 12	Meter 57
Single pole for auxiliary		
10	4 049 09	Meter 37
Double pole		
5	4 049 13	Length Max. number of devices connected
10	4 049 14	1 row 6
		Meter 28
Double pole balanced on 3 phases		
3	4 049 15	Length Max. number of devices connected
10	4 049 16	1 row 6
		Meter 28
Three pole		
5	4 049 17	Length Max. number of devices connected
10	4 049 18	1 row 4
		Meter 19
Three pole for auxiliary		
10	4 049 10	Meter 16
Four pole		
3	4 049 19	Length Max. number of devices connected
10	4 049 20	1 row 3
		Meter 14

Pack	Cat.Nos	Protection
Protection of prongs		
12 modules Can be cut to length		
20	4 049 88	Protection of supply busbar ends
40	4 049 89	For single pole/single pole + neutral
20	4 049 90	For double pole length 1 m and triple pole
	4 049 91	For four-pole
Entry terminals		
20	4 049 05	For universal single pole + neutral or single pole supply busbars Cross section: 4 to 25 mm ² - IP 2X
20	4 049 06	For all supply busbars Cross section: 6 to 35 mm ²

1: Filled with end protection

Distribution terminal blocks



Pack	Cat. Nos	Distribution terminal blocks	
		Conform to standard IEC 60998-2-1 Supplied ready for use (screws not tightened) 100 A max. - 400 V~ with 25 mm ² input 80 A max. - 400 V~ with 16 mm ² input	
10	0 048 01	Screw terminal blocks	
10	0 048 03	Fit with Ø M4 screws	
10	0 048 05	Number of connections (mm ²)	Length (mm)
10	0 048 06	1 x 6 to 25 + 4 x 1.5 to 16	45
10	0 048 07	1 x 6 to 25 + 8 x 1.5 to 16	73
		1 x 6 to 25 + 14 x 1.5 to 16	122
		1 x 6 to 25 + 19 x 1.5 to 16	157
		1 x 6 to 25 + 25 x 1.5 to 16	192
10	0 048 20 ¹	Terminal blocks on support	
10	0 048 22 ¹	Mounting on L or C rail with universal support Cat.No 0 048 11, or on 12 x 2 flat bar	
10	0 048 24 ¹	Supplied with Duplix markers	
10	0 048 25 ¹	4 x 1.5 to 16	47
10	0 048 26 ¹	8 x 1.5 to 16	75
10	0 048 28 ¹	1 x 6 to 25 + 12 x 1.5 to 16	113
		1 x 6 to 25 + 16 x 1.5 to 16	141
		1 x 6 to 25 + 21 x 1.5 to 16	176
		1 x 6 to 25 + 33 x 1.5 to 16	276
10	0 048 16	IP 2X terminal blocks	
10	0 048 50	Mounting on L or C rail with universal support Cat.No 0 048 11, or on 12 x 2 flat bar	
10	0 048 52	Phase (black) Neutral (blue)	
10	0 048 54	1 x 10 to 35 + 5 x 6 to 25	62
10	0 048 45	4 x 1.5 to 16	47
10	0 048 46	8 x 1.5 to 16	75
10	0 048 48	1 x 6 to 25 + 12 x 1.5 to 16	113
		1 x 6 to 25 + 16 x 1.5 to 16	141
		1 x 6 to 25 + 21 x 1.5 to 16	176
		2 x 6 to 25 + 33 x 1.5 to 16	276
10	0 048 30	Earth (green)	
10	0 048 32	4 x 1.5 to 16	47
10	0 048 34	8 x 1.5 to 16	75
10	0 048 35	1 x 6 to 25 + 12 x 1.5 to 16	113
10	0 048 36	1 x 6 to 25 + 16 x 1.5 to 16	141
10	0 048 38	1 x 6 to 25 + 21 x 1.5 to 16	176
		2 x 6 to 25 + 33 x 1.5 to 16	276
1	0 048 10	Supports for terminal blocks	
5	0 048 11	Distribution block support for connecting up to 4 IP 2X terminal block of the same size to create a distribution block	
5	0 048 17	Universal support for mounting an terminal blocks on L or C rail	
		35-holes empty support, for screw terminal blocks	
		Length: 276 mm	
10	0 048 19	Flat bar 12 x 2	
		Length: 1 meter	

1: Each terminal block is supplied with:
 - 2 green Duplix marked \downarrow - 2 blue Duplix marked N
 - 2 red Duplix marked L

Distribution terminal blocks

Mounting of terminal blocks on support

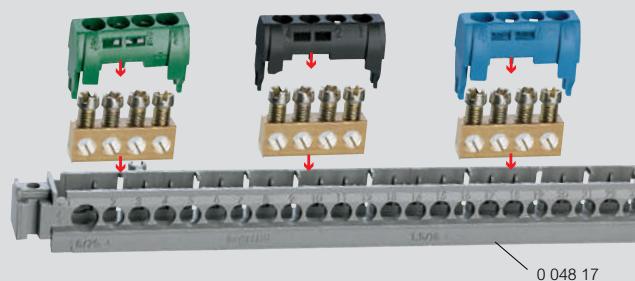
On 12 x 2 flat bar



On support for terminal blocks Cat.No 0 048 17

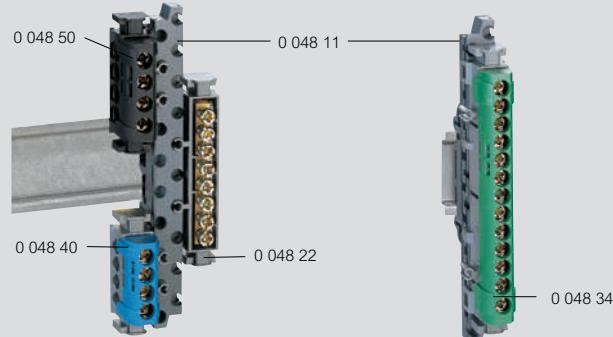
Enables you to make exactly the right number of connections

- Example:



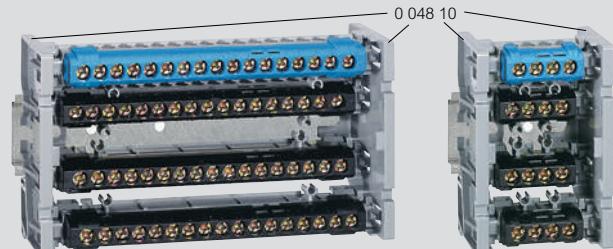
Universal support Cat.No 0 048 11

Mounted on L or C rail, takes all terminal blocks



On distribution block support Cat.No 0 048 10

Possibility of forming a 2P, 3P or 4P distribution block by associating IP 2X terminal blocks



Modular distribution blocks 40 to 250 A



Dimensions see e-catalogue

Standard distribution

Connection with or without Starfix ferrules (p. 306)

Self-extinguishing, according to EN 60695-2-11: 960 °C on active part supports

Pack	Cat. Nos	Monobloc modular distribution blocks			
		Mounting on rail or on plate with 2 screws Supplied with insulated back plate and transparent protective front cover Each bar can be labelled using CAB 3 Possible to add IP 2X terminal block (except Cat.No 0 048 77)			
		Double pole Equipped with 2 bars			
5	0 048 81	Rating (A) 40	Isc peak (kA) 20	Icw (kA) 3	Number of modules 6
10	0 048 80	100	20	4.5	4
5	0 048 82	125	18	4.5	8
		Four pole Equipped with 4 bars			
5	0 048 85	40	20	3	6
10	0 048 84	100	20	4.5	4
5	0 048 86	125	20	4.5	6
5	0 048 88 ¹	125	14.5	4.2	8
1	0 048 76 ²	125	20	4.5	10
1	0 048 79 ¹	160	27	8.4	10
1	0 048 77	250	42	14.4	9

		Modular distribution blocks			
		Mounting on rail Fitted with Lexic label holder Can be joined together Possibility of forming a four pole distribution block by adding modules			
		Single pole			
4	0 048 71	Rating (A) 125	Isc peak (kA) 35	Number of modules 2	
4	0 048 83	160	27	2	
4	0 048 73	250	60	2	

		Distribution terminals			
1	0 048 67	160 A - 6 outputs 25 mm ² flexible - Isc peak 30 kA Can be fitted directly onto downstream terminal of Vistop 100/160 A			
1	0 048 68	250 A - 4 outputs 35 mm ² flexible and 2 outputs 25 mm ² flexible - Isc peak 36 kA Can be fitted directly onto downstream terminal of DPX-IS 250			

1: With short ferrule supplied for flexible connection 25 mm²
2: Incoming conductors must be equipped with ferrules (p. 306)
Connection: 25 mm² with ferrules without insulating flange

Optimised and increased safety distribution systems,
see **Product Guide**



Modular distribution blocks 40 to 250 A

Standards

Conform to EN 60947-1

Insulating voltage according to EN 60947-1/IEC 60664-1: 500 V

Impulse voltage (Uimp): 8 kV - Degree of pollution: 3

Section for connecting rigid or flexible conductors (with Starfix ferrules)

Distribution Blocks Cat.Nos	Connections per bar		Rigid conductors Section (mm ²)	Flexible conductors with ferrules	
	Number	Ø (mm)		Section (mm ²)	Starfix ferrules Cat.Nos
0 048 67	6	8.5		6 to 25	0 376 68 to 71
0 048 68	4	10		6 to 35	0 376 68 to 77
	2	8.9		6 to 25	0 376 68 to 71
0 048 71	12	5.3	1.5 to 10	1.5 to 10	0 376 64 to 69
	4	10	16 to 50	16 to 35	0 376 70 to 72
					0 376 70 to 77
0 048 73	4	6	2.5 to 16	2.5 to 10	0 376 66 to 69
	6	8.5	10 to 35	10 to 25	0 376 69 to 72
	1	-	70 to 150	70 to 120	-
0 048 80	5	5.3	2.5 to 10	1.5 to 10	0 376 64 to 69
	2	7.5	10 to 25	6 to 16	0 376 68 to 70/72
0 048 81	11	4.3	1.5 to 4	0.75 to 4	0 376 62 to 67
	2	6	6 to 16	4 to 10	0 376 67/68/69
0 048 82	11	5.3	2.5 to 10	1.5 to 10	0 376 64 to 69
	2	7.5	10 to 25	6 to 16	0 376 68 to 70/72
	2	9	10 to 35	10 to 25	0 376 69/72/71
0 048 83	7	5.3	2.5 to 10	1.5 to 6	0 376 64 to 69
	2	7.5	6 to 25	6 to 16	0 376 68/69/72
	3	8.9	10 to 35	10 to 25	0 376 69/72
	1	-	35 to 70	25 to 50	0 376 71 to 77/78
0 048 84	5	5.3	2.5 to 10	1.5 to 10	0 376 64 to 69
	2	7.5	10 to 25	6 to 16	0 376 68 to 70/72
0 048 85	11	4.3	1.5 to 4	0.75 to 4	0 376 62 to 67
	2	6	6 to 16	4 to 10	0 376 67/68/69
0 048 86	7	5.3	2.5 to 10	1.5 to 10	0 376 64 to 69
	2	7.5	10 to 25	6 to 16	0 376 68 to 70/72
	2	9	10 to 35	10 to 25	0 376 69/72
0 048 88	11	5.3	2.5 to 10	1.5 to 10	0 376 64 to 69
	4	8.5	10 to 35	6 to 25	0 376 68 to 71
0 048 79	1	-	35 to 70	35 to 70	0 376 77/78
	8	5.3	2.5 to 10	1.5 to 10	0 376 64 to 69
	4	7.5	10 to 25	6 to 16	0 376 68 to 70/72
	2	8.5	10 to 35	10 to 25	0 376 69/72
0 048 76	14	5.3	2.5 to 10	1.5 to 10	0 376 64 to 69
	1	7.5	10 to 25	6 to 16	0 376 68 to 70/72
	1	8.5	10 to 35	6 to 25	0 376 68 to 70/72
	1	-	-	16 to 35	0 376 70 to 77
0 048 77	6	6	2.5 to 16	2.5 to 10	0 376 66 to 69
	2	7.5	10 to 25	6 to 16	0 376 68 to 70/72
	2	8.5	10 to 35	10 to 25	0 376 69 to 72
	1	10	16 to 50	16 to 35	0 376 70 to 72/77
	1	-	50 to 120	50 to 120	0 376 78

Characteristics of distribution blocks for use in photovoltaic installations

No of 18 mm modules	Cat.No	Max. cross-section for "solar cable"	Max. Ie (A) current T = (+40°C/+60°C) IEC 60364-1	Ui (V) Degree of pollution 2 IEC 60664-1	Impulse voltage Uimp IEC 60664-1
Single pole distribution block					
2	0 048 71	4 x 16 to 25 mm ² 12 x 1.5 to 6 mm ² or 6 x 10 mm ²	125/100	1000 V ⁽¹⁾	8 kV ⁽²⁾
Double pole distribution blocks					
4	0 048 80	5 x 1.5 to 6 mm ² 2 x 6 to 16 mm ²	100/80	800 V ⁽¹⁾	8 kV ⁽²⁾
8	0 048 82	11 x 1.5 to 6 mm ² 2 x 6 to 16 mm ² 2 x 10 to 25 mm ²	125/100	800 V ⁽¹⁾	8 kV ⁽²⁾

1: Supplementary insulation provided for the support rail in the context of application of UTE C 15712 double insulation

2: Impulse voltage tested at 12 kV in the context of application of UTE C 15712 double insulation

For detailed dimensions,
see e-catalogue



Power distribution blocks



0 374 00



0 373 08

"Standard" distribution
Supplied with screen protection

Pack	Cat. Nos	Extra-flat for lugs
1	0 374 47	125 A Fixing on rail EN 60715 L or on plate with M6 screws. Equipped with: - 1 incoming 35 mm ² (possible tapp-off) - 10 phase outgoing 16 mm ² - M5 screws - 17 neutral outgoing 16 mm ² - M5 screws Connection possible using connector Cat.No 0 373 65 (p. 225)
1	0 374 00	250 A Fixing on plain plate or on plate with M6 screws Distribution block 1 incoming 150 mm ² per pole: - 1 pole is composed of 3 parts - Each part can receive: 1 x 70 mm ² or 1 x 50 mm ² and 1 x 35 mm ² , or 2 x 35 mm ² or 1 connector with 3 outgoing terminals Cat.No 0 374 03 (p. 195)
		Stepped for lugs
1	0 373 95	125 A Fixing on rail EN 60715 L depth 15 mm or on plate with screws Ø 4 mm (by removing claws) 4 bars 12 x 4 mm with five connectors 2 x 10 mm ² /bar (not mounted)
1	0 374 30	Fixing on rail EN 60715 L, with claws Cat.No 0 374 39 (p. 277) or on plate with M6 screws 4 bars 15 x 4 mm supplied with: - 1 incoming 35 mm ² - M8 screws - 5 outgoing 25 mm ² - M6 screws
1	0 374 31	160 A Fixing on rail EN 60715 L, with claws Cat.No 0 374 39 (p. 277) or on plate with M6 screws 4 bars 18 x 4 mm supplied with: - 1 incoming 70 mm ² max. - M8 screws - 5 outgoing 35 mm ² - M6 screws
1	0 374 35	250 A Fixing on rail EN 60715 L, with claws Cat.No 0 374 39 (p. 277) or on plate with M6 screws 4 bars 25 x 4 mm supplied with: - 1 incoming 120 mm ² - M10 screws - 5 outgoing 50 mm ² - M8 screws
1	0 373 08	400 A Horizontal mounting in XL ³ 400 cabinets, vertical in XL ³ 400 cable sleeve, vertical in XL ³ 800 internal cable sleeve or on solid plate using the M6 screws supplied Distribution block consisting of 4 tin-coated bars 32 x 5 mm with insulated protection Composition of each bar: - 2 x Ø 8.5 mm untapped holes for power supply (flexible bars, ...) - 21 outgoing M6 holes (70 mm ² lugs max.)
1	0 374 42	Fixing on rail EN 60715 L, with claws Cat.No 0 374 39 (p. 277) Distribution block consisting of 4 bars 32 x 5 mm Composition of each bar: - 2 x Ø 10.5 mm untapped holes for power supply (185 mm ² max.) - 15 outgoing M6 holes, 4 outgoing M8 holes

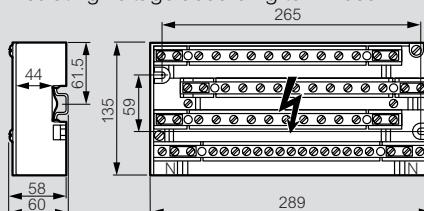
Power distribution blocks

Extra-flat for lugs

Self extinguishing: 960 °C according to EN 60695-2-11

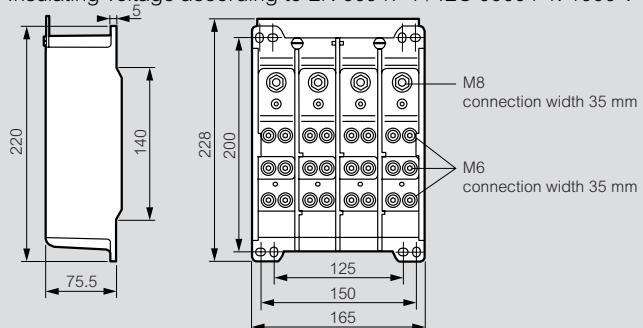
125 A Cat.No 0 374 47 - Isc peak 25 kA

Insulating voltage according to EN 60947-1 / IEC 60664-1: 500 V



250 A Cat.No 0 374 00 - Isc peak 60 kA

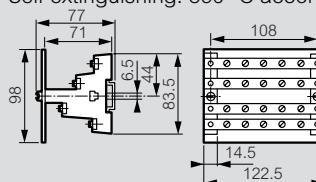
Insulating voltage according to EN 60947-1 / IEC 60664-1: 1000 V



Stepped for lugs

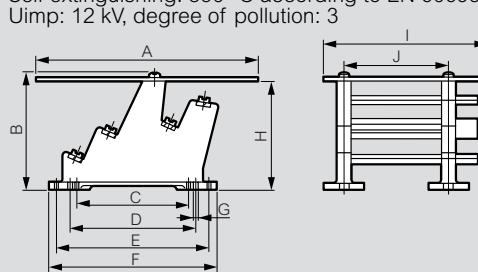
125 A Cat.No 0 373 95 - Isc peak 20 kA

Insulating voltage according to EN 60947-1 / IEC 60664-1: 600 V
Self extinguishing: 850 °C according to EN 60695-2-11



125/160/250 A Cat.Nos 0 374 30/31/35 - Isc peak 35 kA

Insulating voltage according to EN 60947-1 / IEC 60664-1: 1000 V
Self extinguishing: 850 °C according to EN 60695-2-11
Uimp: 12 kV, degree of pollution: 3



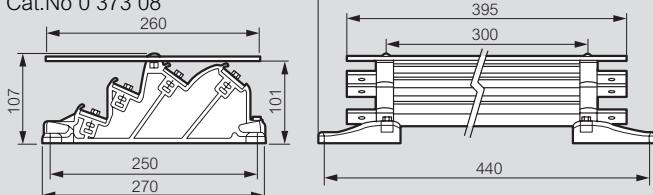
Dimensions (mm)

Distribution blocks	A	B	C	D	E	F	G	H	I	J
125 A	225	125	110	125	165	189	6.5	117.5	165	108
160 A	240	125	110	125	165	189	6.5	117.5	180	120
250 A	260	155	110	125	185	209	6.5	147.5	195	120

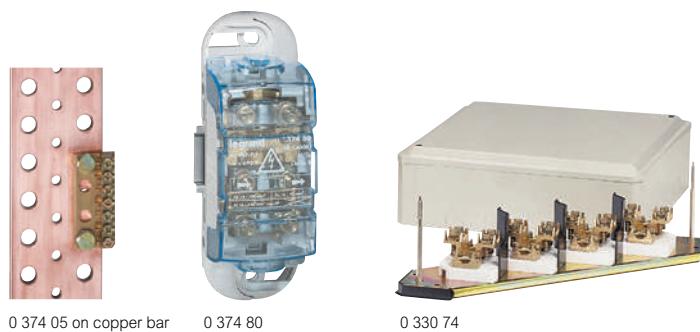
400 A⁽¹⁾ Cat.No 0 373 08 - Isc peak 42 kA. Insulating voltage according to EN 60947-1 / IEC 60664-1: 1000 V. Uimp: 12 kV, degree of pollution: 3
Self extinguishing: 960 °C according to EN 60695-2-11

Cat.No 0 374 42 - Isc peak 50/75 kA. Insulating voltage according to EN 60947-1 / IEC 60664-1: 1000 V fixing centres 50 mm, 1500 V fixing centres 75 mm. Uimp: 8 kV fixing centres 50 mm, 12 kV fixing centres 75 mm. Degree of pollution: 3

Cat.No 0 373 08



Connection

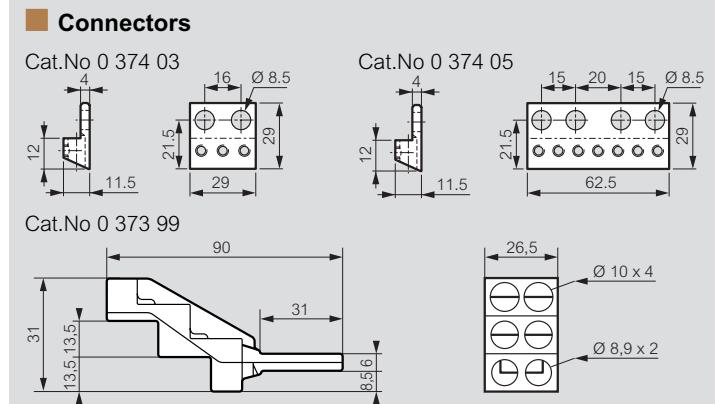


"Standard" distribution

Pack	Cat. Nos	Connectors
10	0 374 03	With 3 outgoing terminals 200 A Fits onto flat copper bars and distribution block Cat.No 0 374 00 (p. 194) Capacity: - 1 x Ø 5.3 mm outgoing terminal for 1.5 to 6 mm ² connection - 2 x Ø 7.5 mm outgoing terminals for 6 to 16 mm ² connection
4	0 373 99	With 6 outgoing terminals 250 A Fits onto C section aluminium bars with M10 hammer head bolt Cat.No 0 373 59 or onto flat copper bars Capacity: - 4 x 6 to 35 mm ² - 2 x 6 to 25 mm ²
5	0 374 05	With 7 outgoing terminals 400 A Fits onto flat copper bars Capacity: - 4 x Ø 5.3 mm outgoing terminals for 1.5 to 6 mm ² connection - 3 x Ø 7.5 mm outgoing terminals for 6 to 16 mm ² connection

	Cat. Nos	Aluminium/copper distribution boxes up to 300 mm ²
	0 374 80	Adapt the cross-section of the incoming or outgoing cable in order to connect a device IP 2X box, self-extinguishing transparent cover Universal fixing on rail or on plate Reversible sealable cover with area for label Operational voltage: Ue = 690 V~ according to EN 60947-1/IEC 60664-1 <ul style="list-style-type: none"> • Aluminium connection Conform to standard NFC 63-061 class B • Copper connection Conform to standard EN 60947-7-1 Supplied with copper coupling strip Aluminium/copper 120 mm ² distribution box 300 A max. Incoming: 16 to 120 mm ² Aluminium or 16 to 120 mm ² copper Outgoing: 16 to 70 mm ² copper Aluminium/copper 120 mm ² distribution box 540 A max. Incoming: 70 to 300 mm ² Aluminium or 70 to 185 mm ² copper Outgoing: 70 to 150 mm ² copper
	0 374 81	Junction boxes IP 30 - IK 07 For copper cables 4 connections per pole Reversible stirrup for zero clamping Fitted with 4 or 5 junction blocks mounted on an insulated strip with a sheet steel cover Knock-out entries for conduits Ø 9 and 21 mm Sealable cover screws RAL 7035
1	0 330 44	Poles Cable section (mm ²) Rated current (A)
1	0 330 54	4 35 125
1	0 330 74	4 70 192
1	0 330 84	4 150 309
		4 240 415

Connection



Aluminium/copper distribution boxes

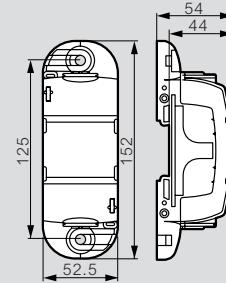
Technical characteristics

Impulse voltage (Uimp)
Short-circuit current
Icw for 1 second
Tightening torque

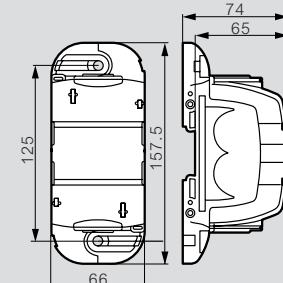
Cat.No 0 374 80	Cat.No 0 374 81
10 kV	12 kV
14.5 kA	22.2 kA
14 Nm	30 Nm

Dimensions

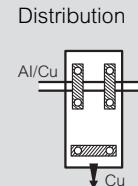
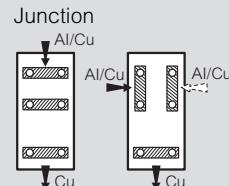
Cat.No 0 374 80



Cat.No 0 374 81

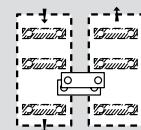


Connection

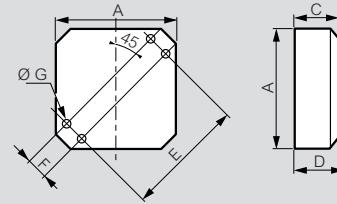


Connecting in series

This bridging is made with 2 copper bars (supplied with each product) and accept max. rating of incoming cable for tap-off between 2 distributions boards



Junction boxes



Cat. Nos	A (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
0 330 44	236	75	89	264	40	6
0 330 54	276	84	99	314	40	7
0 330 74	319	103	118	361	50	7
0 330 84	510	129	144	613	65	9

Flat copper bars selection

standard distribution

			$\leq 400 \text{ A}$		$\leq 800 \text{ A}$		$\leq 1000 \text{ A}$		$\leq 1600 \text{ A}$			
Flat busbars supports												
Flat copper bars												
Cat.Nos	Cross section (mm)	Number of bar per pole	I (A) IP ≤ 30	I (A) IP > 30	I (A) IP ≤ 30	I (A) IP > 30	I (A) IP ≤ 30	I (A) IP > 30	I (A) IP ≤ 30	I (A) IP > 30	I (A) IP ≤ 30	I (A) IP > 30
0 374 34	18 x 4	1	245	200	245	200	245	200	-	-	-	-
0 374 38	25 x 4	1	280	250	-	-	-	-	-	-	-	-
0 374 18	25 x 5	1	330	270	330	270	330	270	-	-	-	-
0 374 19	32 x 5	1	450	400	450	400	450	400	-	-	-	-
0 374 40	50 x 5	1	-	-	-	-	700	630	700	630	700	630
		2	-	-	-	-	-	-	-	1150	1000	650
		3	-	-	-	-	-	-	-	-	-	-
		4	-	-	-	-	-	-	-	-	-	-
0 374 41	63 x 5	1	-	-	-	-	800	700	800	700	800	700
		2	-	-	-	-	-	-	-	1350	1150	770
		3	-	-	-	-	-	-	-	-	-	-
		4	-	-	-	-	-	-	-	-	-	-
0 374 59	75 x 5	1	-	-	-	-	-	-	950	850	950	850
		2	-	-	-	-	-	-	-	1500	1300	890
		3	-	-	-	-	-	-	-	-	-	-
		4	-	-	-	-	-	-	-	-	-	-
0 374 43	80 x 5	1	-	-	-	-	-	-	1050	900	1000	900
		2	-	-	-	-	-	-	-	1650	1450	940
		3	-	-	-	-	-	-	-	-	-	-
		4	-	-	-	-	-	-	-	-	-	-
0 374 46	100 x 5	1	-	-	-	-	-	-	-	-	1250	1050
		2	-	-	-	-	-	-	-	-	1900	1600
		3	-	-	-	-	-	-	-	-	-	-
		4	-	-	-	-	-	-	-	-	-	-
	125 x 5	1	-	-	-	-	-	-	-	-	-	-
		2	-	-	-	-	-	-	-	-	-	-
		3	-	-	-	-	-	-	-	-	-	-
		4	-	-	-	-	-	-	-	-	-	-
	80 x 10	1	-	-	-	-	-	-	-	-	-	-
		2	-	-	-	-	-	-	-	-	-	-
		3	-	-	-	-	-	-	-	-	-	-
	100 x 10	1	-	-	-	-	-	-	-	-	-	-
		2	-	-	-	-	-	-	-	-	-	-
		3	-	-	-	-	-	-	-	-	-	-
	120 x 10	1	-	-	-	-	-	-	-	-	-	-
		2	-	-	-	-	-	-	-	-	-	-
		3	-	-	-	-	-	-	-	-	-	-
	200 x 10	1	-	-	-	-	-	-	-	-	-	-
		2	-	-	-	-	-	-	-	-	-	-
		3	-	-	-	-	-	-	-	-	-	-

Copper bars and accessories

	$\leq 4000 \text{ A}$				$\leq 6300 \text{ A}$			
	 Cat.Nos 0 373 24/25				 Cat.Nos 0 373 12/13			
	Bar mounting: edgewise		Bar mounting: flat		Bar mounting: edgewise		Bar mounting: flat	
								
	I (A)	I (A)	I (A)	I (A)	I (A)	I (A)	I (A)	I (A)
	IP ≤ 30	IP > 30	IP ≤ 30	IP > 30	IP ≤ 30	IP > 30	IP ≤ 30	IP > 30
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
700	630	500	420	-	-	-	-	-
1180	1020	750	630	-	-	-	-	-
1600	1380	1000	900	-	-	-	-	-
2020	1720	1120	1000	-	-	-	-	-
800	700	600	500	-	-	-	-	-
1380	1180	750	630	-	-	-	-	-
1900	1600	1100	1000	-	-	-	-	-
2350	1950	1350	1200	-	-	-	-	-
950	850	700	600	-	-	-	-	-
1600	1400	1000	850	-	-	-	-	-
2200	1900	1250	1100	-	-	-	-	-
2700	2300	1600	1400	-	-	-	-	-
1000	900	750	630	-	-	-	-	-
1700	1480	1050	900	-	-	-	-	-
2350	2000	1300	1150	-	-	-	-	-
2850	2400	1650	1450	-	-	-	-	-
1250	1050	850	700	-	-	-	-	-
2050	1800	1200	1050	-	-	-	-	-
2900	2450	1600	1400	-	-	-	-	-
3500	2900	1900	1650	-	-	-	-	-
1450	1270	1000	800	-	-	-	-	-
2500	2150	1450	1250	-	-	-	-	-
3450	2900	1800	1600	-	-	-	-	-
4150	3450	2150	1950	-	-	-	-	-
1460	1270	1150	950	-	-	-	-	-
2500	2150	1700	1500	-	-	-	-	-
3450	2900	2500	2000	-	-	-	-	-
1750	1500	1350	1150	-	-	-	-	-
3050	2550	2000	1650	-	-	-	-	-
4150	3500	2900	2400	-	-	-	-	-
2000	1750	1650	1450	-	-	-	-	-
3600	2950	2500	2000	-	-	-	-	-
4800	4000	3500	3000	-	-	-	-	-
-	-	-	-	3300	3000	2750	2400	
-	-	-	-	5200	4800	3600	3250	
-	-	-	-	7000	6400	5400	4800	



0.374 19 + 0.373 11



0 374 40



0 374 10

"Standard" distribution

Pack	Cat.Nos	Copper bars					
		Rigid, flat, threaded holes					
		Cross section (mm)	permissible (A)	Holes Ø mm	Length (mm)		
10	0 373 88	12 x 2	IP ≤ 30	M5	990	4	18
10	0 373 89	12 x 4	IP > 30	M5	990	4	18
10	0 374 33	15 x 4	200	M6	990	4	18
10	0 374 34	18 x 4	245	M6	990	4	18
10	0 374 38	25 x 4	280	M6	990	4	18
4	0 374 18	25 x 5	330	M6	1750	5	25
4	0 374 19	32 x 5	450	M6	1750	5	25
		Rigid flat clear holes					
1	0 374 40	50 x 5	700	630	10.5 - 6.5	1750	5
1	0 374 41	63 x 5	800	700	10.5 - 8.5	1750	5

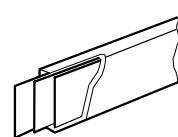
Rigid flat clear holes									
1	0 374 40	50 x 5	700	630	10.5 - 6.5	1750	5		
1	0 374 41	63 x 5	800	700	10.5 - 8.5	1750			
1	0 374 59	75 x 5	950	850	10.5 - 6.5	1750			
1	0 374 43	80 x 5	1000	900	10.5 - 6.5	1750			
1	0 374 46	100 x 5	1250	1050	10.5 - 6.5	1750			

Flexible

Flexible

Supplied flat, length 2 m				
	Cross section (mm)	IP ≤ 30	IP > 30	
1	0 374 10	13 x 3	200	160
1	0 374 67	20 x 5	400	250
1	0 374 11	24 x 4	400	250
1	0 374 12	32 x 5	630	400
1	0 374 57	50 x 5	850	630
1	0 374 58	50 x 10	1250	1000





Accessories

Isolating profile

Isolating profile for flat copper bars 18 x 4,
25 x 4, 25 x 5 and 32 x 5 mm, length 1 m
Supplied with fixing clips

Insulating screws

M6 x 10

HF screws with contact washers

M6 x 10

Busbars supports selection

standard distribution

Max. In (A)	Flat copper bars						
	400	800	1000	1600	4000	6300	
Supports							
Mounting	0 373 10	0 373 15	0 373 20	0 373 21	0 373 22/23	0 373 24/25	0 373 12/13
XL³ 400							
		●					
	●						
XL³ 800							
		● + 0 373 14					
	●						
			●				
XL³ 4000							
	D : 475				● + 0 205 51 ⁽⁵⁾		
	D : 725				● + 0 205 52	● ⁽⁵⁾	● ⁽⁵⁾
	D : 975				● + 0 205 53	● ⁽¹⁾	● ⁽¹⁾
	D : 725				● + 0 205 51	● ⁽⁴⁺⁵⁾	● ⁽⁴⁺⁵⁾
	D : 975				● + 0 205 52	●	●
	D : 475		● + 0 205 51	● + 0 205 51	● + 0 205 51		
	D : 725		● + 0 205 52	● + 0 205 52	● + 0 205 52	●	●
	D : 975		● + 0 205 53	● + 0 205 53	● + 0 205 53	● ⁽¹⁾	● ⁽¹⁾
	D : 725		● + 0 205 51		● + 0 205 51		
	D : 975		● + 0 205 52		● + 0 205 52	●	●
	W : 475		● + 0 205 51		● + 0 205 51 ⁽²⁾		
	W : 725	● + 0 373 14	● + 0 205 52		● + 0 205 52		
	W : 975		● + 0 205 53		● + 0 205 53		
	W : 475		● ⁽³⁾ + 0 205 51		● ⁽³⁾ + 0 205 51	● ⁽³⁾ + 0 205 51	● ⁽³⁾ + 0 205 51
	W : 725		● ⁽³⁾ + 0 205 52		● ⁽³⁾ + 0 205 52	● ⁽³⁾ + 0 205 52	● ⁽³⁾ + 0 205 52
	W : 975		● ⁽³⁾ + 0 205 53		● ⁽³⁾ + 0 205 53	● ⁽³⁾ + 0 205 53	● ⁽³⁾ + 0 205 53

1: With upright Cat.No 0 205 20 in cable sleeve - 2: Depth min. 725 mm - 3: Fixed supports only - 4: Inside complementary cable sleeve - 5: Partial chassis

Isolating supports for busbars

XL³ cabinets and enclosures



0 373 10



0 373 24



Dimensions and distances between the supports [see e-catalogue](#)

"Standard" distribution

Pack	Cat. Nos	1 bar per pole universal supports ≤ 280 A	Pack	Cat. Nos	1 or 2 bars per pole
10	0 373 98	Single pole support for flat copper bars 12 x 2 or 14 x 4 mm			Supports for flat copper bars 50 x 5, 63 x 5, 75 x 5, 80 x 5 and 100 x 5 mm, in aligned position
10	0 374 37	Single pole support for flat copper bars 15 x 4, 18 x 4 or 25 x 4 mm	1	0 373 22	≤ 1600 A
5	0 373 96	Set of 2 four pole supports for flat copper bars 12 x 2 or 12 x 4 mm	1	0 373 23	Fixed support
1	0 374 32	Set of 2 four pole supports for flat copper bars 15 x 4 or 18 x 4 mm			Additional support
1	0 374 36	Set of 2 four pole supports for flat copper bars 25 x 4 mm			Mounted in addition to fixed support Cat.No 0 373 22 to comply with the distances (Isc withstand)
1 bar per pole					
1	0 373 15	≤ 400 A Support for flat copper bars 18 x 4, 25 x 5 and 32 x 5 mm	1	0 373 24	≤ 4000 A
1	0 373 10	For XL ³ 400 cabinets and enclosures Support for flat copper bars 18 x 4, 25 x 4, 25 x 5 and 32 x 5 mm, in sloping position to create a vertical busbars at back For direct mounting on solid or perforated plate	1	0 373 25	Supports for 4 flat bars from 50 x 5 to 125 x 5 mm or 3 bars from 50 x 10 to 120 x 10 mm, in aligned position
1	0 373 20	≤ 800 A Support for flat copper bars 18 x 4, 25 x 5, 32 x 5, 50 x 5 and 63 x 5 mm in sloping position	1	0 373 12	Fixed support
1	0 373 21	≤ 1000 A Support for flat copper bars 50 x 5, 63 x 5, 75 x 5 and 80 x 5 mm in staggered position	1	0 373 13	Additional support
					Mounted in addition to fixed support Cat.No 0 373 12 to comply with the distances (Isc withstand)
					≤ 6300 A
					Reinforced 4P isolating supports Hold flat copper bars in position Up to three 200 x 10 mm bars per pole
					Fixed support
					Additional support
					Mounted in addition to fixed support Cat.No 0 373 12 to comply with the distances (Isc withstand)
Fixing supports					
Adjustable crosspieces					
1	0 205 51	Set of 2 crosspieces length 350 mm	1	0 205 51	Set of 2 crosspieces length 350 mm
1	0 205 52	Set of 2 crosspieces length 600 mm	1	0 205 52	Set of 2 crosspieces length 600 mm
1	0 205 53	Set of 2 crosspieces length 850 mm	1	0 205 53	Set of 2 crosspieces length 850 mm
Crosspieces for partial chassis					
1	0 205 31	Set of 2 fixed crosspieces length 350 mm	1	0 205 31	Set of 2 fixed crosspieces length 350 mm
1	0 205 32	Set of 2 fixed crosspieces length 600 mm	1	0 205 32	Set of 2 fixed crosspieces length 600 mm
Extension piece					
1	0 373 14	For mounting busbars supports Cat.No 0 373 15 in XL ³ 800 and 4000 cabinets and enclosures			

Optimised and increased safety distribution systems,
[see Product Guide](#)



For the distances between isolating supports, [see e-catalogue](#)

