

DPX³ 250

Thermal magnetic and trip-free switches

DPX³-I 250

Reference(s) : 420 205 / 207 / 208 / 209 / 215 / 217 / 218 / 219

420 235 / 237 / 238 / 239 / 245 / 247 / 248 / 249

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1. USE

DPX³ platform has been developed to give a new solution of protection devices for a more precise approach in flow installations in order to offer the correct answer for different project needs.

DPX³ platform provide a complete project approach in premium market segment, offering a range completely suitable for medium power application with high performance breakers in compact dimensions and at a competitive costs.

2. RANGE

Circuit breakers

I _n (A)	25 kA		36 kA	
	3P	4P	3P	4P
100	4 202 05	4 202 15	4 202 35	4 202 45
160	4 202 07	4 202 17	4 202 37	4 202 47
200	4 202 08	4 202 18	4 202 38	4 202 48
250	4 202 09	4 202 19	4 202 39	4 202 49

I _n (A)	50 kA	
	3P	4P
100	4 202 65	4 202 75
160	4 202 67	4 202 77
200	4 202 68	4 202 78
250	4 202 69	4 202 79

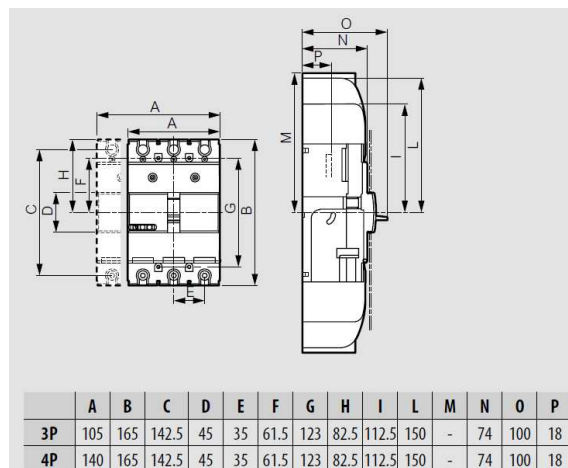
Switches

I _n (A)	3P	4P
250	4 202 99	4 203 00

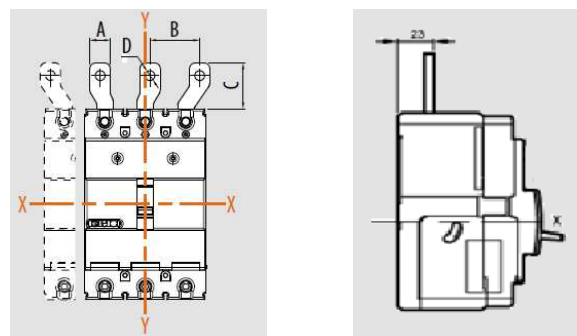
3. DIMENSIONS AND WEIGHTS

3.1 Dimensions

Fixed version



Fixed version, front terminals



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Technical drawing of the front view of the 1000 Series 4-Door Refrigerator. The drawing shows the refrigerator with its four doors and internal shelves. Dimensions are indicated by letters A through H. A note at the bottom right specifies 'max 2 ÷ 5 mm'.

A	B	C	D	E	F	G	H	I
66,5	22	6	8,4	15,5	44	15	79	10

[illegible]

Technical drawing of the 1000 Series cabinet. The top view shows a symmetrical design with a central opening. Dimensions include a total width of 104, a central opening width of 60, and a distance of 60 from the center to the side panels. The side view shows the cabinet's profile with dimensions A (total depth), B (depth to the front panel), and C (depth to the back panel). The front panel features a handle and a lock mechanism. The side view also shows the internal structure and the location of the front panel hinges.

	A	B	C
3P	105	165	82,5
4P	140	165	82,5
4P DIFF	140	195	82,5

	A	B	C	D	E	F	G	H _{min}	H _{max}	I	L	M
3P-4P	122	57	155	94	80.5	40.5	41.7	132	361	62	74	45

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3.2 Weights

Configuration	Weights (Kg)	
	3P	4P
Circuit breaker/switch disconnecter	1.9	2.4
Direct rotary handle*	0.30	
Vari depth rotary handle*	0.27	
Motor operator*	1.22	
Interlock*	1.08	
Spreader*	0.26	0.35

4. OVERVIEW

4.1 Supplied

Supplied with

- fixing screws
- connection plates for bars and cable lugs
- insulating shields (phase barrier)

5. ELECTRICAL CONNECTIONS

5.1 Mounting possibilities

On DIN rail:

- Vertical
- Supply inverter type

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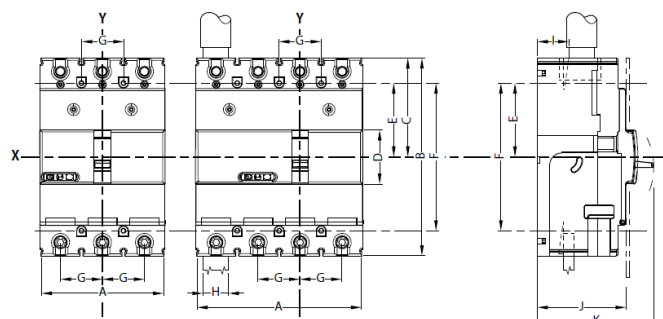
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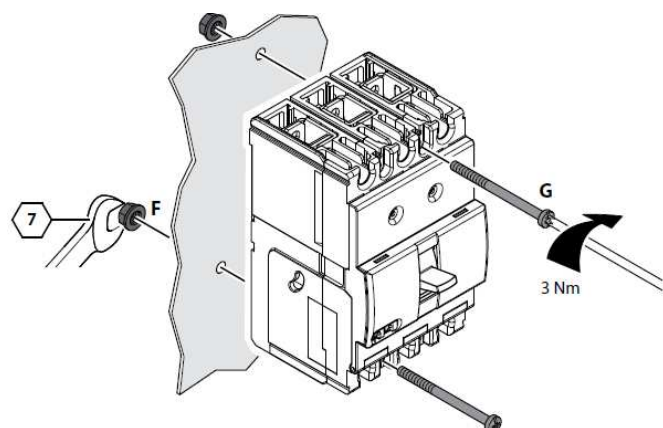
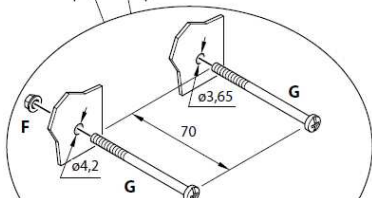
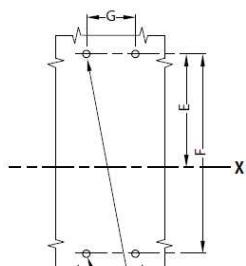
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5.2 Mounting

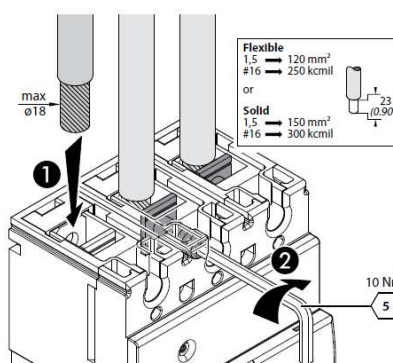
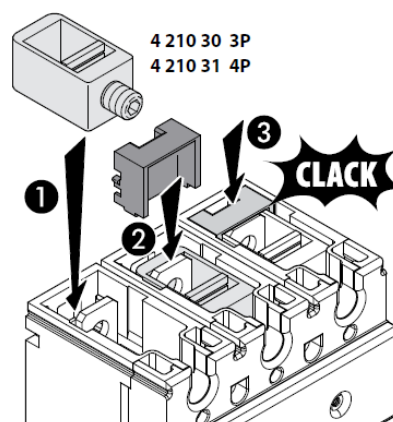
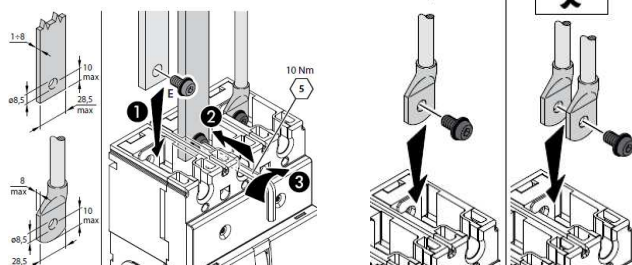
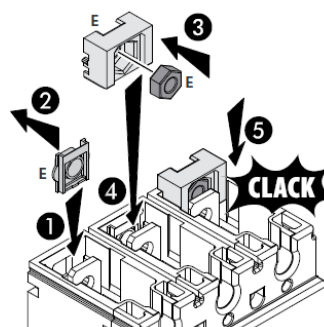
(see instruction sheet for detailed mounting procedures)



	A	B	C	D	E	F	G	H	I	J	K
250 3P	105	165	82,5	45	61,5	123	35	28,5	18	74	97
250 4P	140	165	82,5	45	61,5	123	35	28,5	18	74	97
250 RCD	140	195	82,5	45	61,5	153	35	28,5	18	74	97



Busbars/cable lugs and cables:



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6. ELECTRICAL AND MECHANICAL CHARACTERISTICS

Circuit breaker

Circuit Breaker	DPX ³ 250 E/B/F (25kA, 36kA, 50kA)
Rated current (A)	100, 160, 200, 250
Poles	3 - 4
Rated insulation voltage U _i (V)	800
Rated operating voltage (50/60Hz) U _e (V)	690
Rated impulse withstand current U _{imp} (kV)	8
Rated frequency (Hz)	50 - 60
Reference ambient temperature(°C)	40 - 50
Operating temperature (°C)	-25 ÷ 70
Mechanical endurance (cycles)	20000
Mechanical endurance with motor control (cycles)	20000
Electrical endurance at I _n (cycles)	8000
Electrical endurance at 0.5 I _n (cycles)	10000
Utilization category	A
Suitable for isolation	Yes
Type of protection	Thermal-magnetic
Magnetic adjustment	5 - 10 x I _n
Thermal adjustment	(0.8 ÷ 1) x I _n
Neutral protection for 4P version (%I _{th})	100
Dimensions (W x H x D) (mm) 3P	105 x 165 x 100
Dimensions (W x H x D) (mm) 4P	140 x 165 x 100
Weight (kg)	1.9 (3P) - 2.4(4P)

Switch disconnectors

Switch	DPX ³ -I
Uninterrupted nominal current I _n (A)	250
Short-time resistive current I _{sw} (kA) for 1s	3
Rated short-circuit making capacity I _{cm} (kA)	4.5
Isolated voltage U _i (V AC)	800
Maximum rated operating voltage U _e (V AC/DC)	690
Rated impulse withstand voltage U _{imp} (kV)	8
Utilisation category	AC22-23A
Rated frequency (Hz)	50-60
Operating temperature (°C)	-25 ÷ 70
Mechanical endurance (cycles)	20000
Mechanical endurance with motor control (cycles)	20000
Electrical endurance (cycles) at I _n	8000
Electrical endurance (cycles) at 0.5 I _n	10000
Dimensions (W x H x D) (mm) 3P	105 x 165 x 100
Dimensions (W x H x D) (mm) 4P	140 x 165 x 100
Weight (kg)	1.9 (3P) - 2.4 (4P)

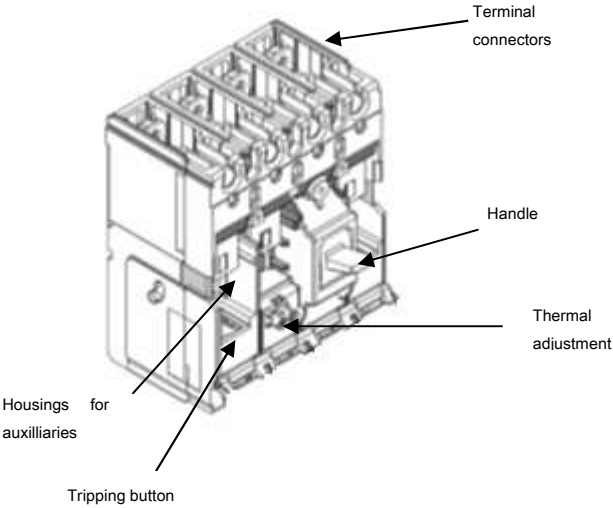
The maximum admissible (absolute) temperature is 125°C
(for detail, see IEC 60947-1 and 60947-2).

DPX³ product line has the possibility to supply both in “direct”
and “reverse” feed.

If “direct”, the word “LINE” needs to be marked on supply
terminals (normally the top ones), as well as “LOAD” has to be
written on the output terminals to be connected to the load
(normally the bottom ones).

If “reverse”, any indications about LINE / LOAD are NOT
expected on the product.

6.1 Main parts constituting the circuit breaker



6.2 Breaking capacity (kA)

		Breaking capacity (kA) & I _{cs}		
		3P-4P	3P-4P	3P-4P
IEC 60947-2	U _e /I _{cu}	B	F	N
	220/240 V AC	40	60	80
	380/415 V AC	25	36	50
	440/460 V AC	20	30	40
	480/500 V AC	10	25	30
	480/550 V AC	9	20	22
	600V AC	9	20	22
	690V AC	8	16	18
	I _{cs} (% I _{cu})	100	100	100
	Rated making capacity under short circuit I _{cm}			
I _{cm} (kA) at 415V		52.5	75.6	105

6.3 Rated current (I_n) at 40°C / 50°C

I _n (A)	Assigned current trip			
	thermal		magnetic	
	L1-L2-L3	N	L1-L2-L3	N
100	100	100	1000	1000
160	160	160	1600	1600
200	200	200	2000	2000
250	250	250	2500	2500

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6.4 Load operations

Loads operation	
Rated current (A)	I _n =250A
Opening (N)	45
Closing (N)	78
Reset (N)	75

6.5 Electrodynamic forces

The table below shows an indication of suggested distances to keep between the breaker and the first fixing point of the conductor and bars in order to reduce the effects of the electrodynamic stresses that may be created during a short circuit. In the realization of anchorage system it is recommend the use of isolators suitable for the type of conductor used and the operating voltage.

I _{cc} (kA)	Maximum Distance (mm)
25	400
36	350
50	300

According to conductor type and bar system (except Legrand bar kits), the choice of the distance to keep is to be calibrated by the installer.

Also installer must take into account the weight of the conductors so that this does not affect the electrical junction between the conductor itself and the connection point.

6.6 Power losses per pole under I_n

Circuit breaker

	Power losses per pole (W)			
	I _n (A)			
	100	160	200	250
Lugs	7.0	12.5	15.1	19.1

Note: power losses in the table above are referred and measured as described in the standard IEC 60947-2 (Annex G) for circuit-breakers. Values in the table are referred to a single phase.

6.7 DERATINGS

according to IEC/EN 60947-1

6.7.1 Temperature

Rated current and his adjustment has to be considered relating to a rise or fall of ambient temperature and to a different version or installation conditions. The table below indicates the maximum long-time (LT) protection setting depending on the ambient temperature.

I _n (A)	Temperature T _a (°C)											
	-25	-20	-10	-5	0	10	20	30	40	50	60	70
100	135	132	128	126	123	120	112	102	100	100	90	84
160	216	211	205	201	197	192	179	163	160	160	143	134
200	270	264	256	251	246	240	224	203	200	200	179	168
250	338	330	320	314	308	300	280	254	250	250	224	210

6.7.2 Specific condition use

Climatic conditions

according to IEC/EN 60947-1 Annex Q, Cat. F subject to temperature, humidity, vibration, shock and salt mist.

Pollution degree

for DPX³ 250 circuit breakers, degree 3, according to IEC/EN 60947-2

6.7.3 Altitude

Altitude derating for DPX³ and DPX³-I

Altitude (m)	2000	3000	4000	5000
U _e (V)	690	590	520	460
I _n (A) (T _a = 40°C/50°C)	I _n	0.98 x I _n	0.93 x I _n	0.9 x I _n

5.6.3 Use in DC

See section B.

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7. CONFORMITY

DPX³ range of product concerning circuit-breakers and switch-disconnectors exceed compliance with the IEC/EN standard 60947-2 and 60947-3 respectively. Certification available by IECEE CB-scheme or LOVAG Compliance scheme.

DPX³ respect the European Directives REACH, RoHS, RAEE.

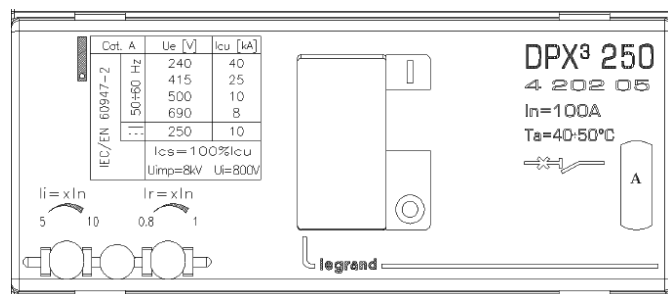
For specific information, please contact Legrand support.

7.1 Marking

Product (both circuit breakers and switch disconnectors) are provided with labelling in full conformity to the referred standard and directives requirements by laser or sticker labels (for illustrative purposes only) as:

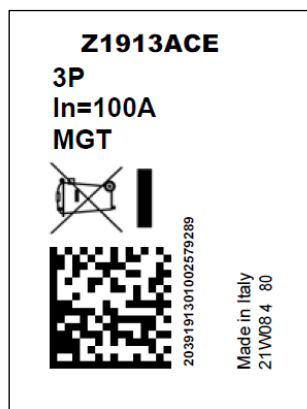
Product laser label on front

- Manufacturer responsible
- Denomination, type product, code
- Standard conformity
- Standard characteristics declared
- Coloured identification of I_{cu} at 415V



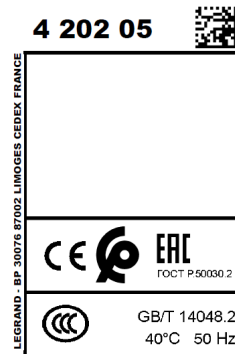
Product sticker label on side

- Manufacturer responsible
- Denomination and type product
- Standard conformity
- Mark/Licence (if any)
- Directive requirements
- Bar code identification product
- Manufacturing Country



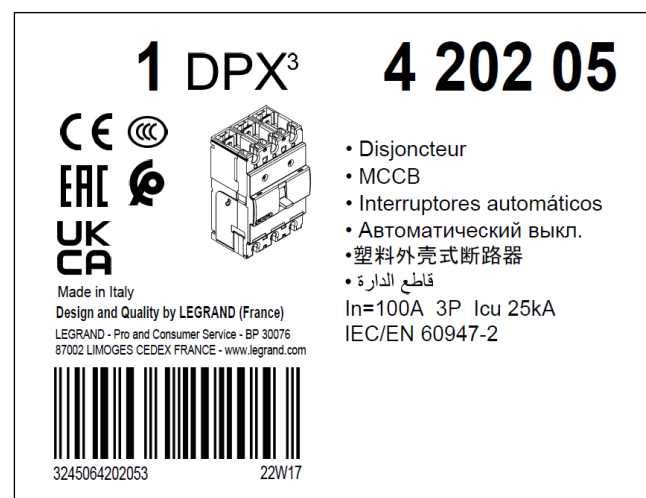
Mark sticker label on side

- Product code
- Mark/Licence (if any)
- Country deviation, if any



Packaging sticker label

- Manufacturer responsible
- Denomination and type product
- Mark/Licence (if any)
- Directive requirements
- Bar code identification product



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8. EQUIPMENTS AND ACCESSORIES

8.1 Releases (for DPX³ 125/250 HP and DPX³ 160/250)

- shunt releases with voltage:

12 Vac and dc	ref. 4 210 12
24 Vac and dc	ref. 4 210 13
48 Vac and dc	ref. 4 210 14
110÷130 Vac	ref. 4 210 15
220÷277 Vac	ref. 4 210 16
380÷480 Vac	ref. 4 210 17

Maximum power = 400 VA / W

- undervoltage releases with voltage:

12 Vac and dc	ref. 4 210 18
24 Vac and dc	ref. 4 210 19
48 Vac and dc	ref. 4 210 20
110÷130 Vac and dc	ref. 4 210 21
220÷240 Vac	ref. 4 210 22
277 Vac	ref. 4 210 23
380÷415 Vac	ref. 4 210 24
440÷480 Vac	ref. 4 210 25

Maximum power = 4 VA

Circuit breaker opening time < 50 ms

- time-lag undervoltage releases (800 ms)

Time-lag modules with voltage:

230 V ac	ref. 0 261 90
400 V ac	ref. 0 261 91

Release ref. 4 210 98
(to be equipped with a time-lag module 0 261 90/91)

8.2 Auxiliary contact

(for DPX³ 125/250 HP and DPX³ 160/250)

set of connectors for aux contacts ref. 4 210 44
aux contacts (1NC and 1 NO) for all rotary handles ref. 4 210 10
signalling contact plugged-in version ref. 4 210 48

Changeover switch 3A – 250 VAC ref. 4 210 11

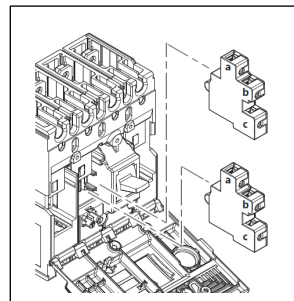
To show the state of the contacts or opening of the DPX³ on a fault:

Auxiliary contact (standard) OC
Fault signal CTR

Auxiliary contact		
Nominal voltage (V _n)	V (AC or DC)	24 to 250
Intensity (A)	24 V DC	5
	48 V DC	1.7
	110 V DC	0.5
	230 V DC	0.25
	110 V AC	4
	230/250 V AC	3

Configurations:

DPX³ 250 → 1 auxiliary contact + 1 fault signal



To get more information on auxiliary mounting procedures, please refer to product instruction sheet.

8.3 Rotary handles

Direct (with auxiliary option and compatible XL³)

- DPX³ direct rotary handle ref. 4 210 00
- DPX³ emergency direct rotary handle ref. 4 210 02

Vari-depth handle IP55 (with auxiliary option and compatible XL³)

- DPX³ vari depth rotary handle ref. 4 210 04
- DPX³ emergency vari depth rotary handle ref. 4 210 05

Locking accessories (for rotary handle with auxiliary option)

- Ronis type flat key random for direct rotary handle ref. 4 210 06
- Profalux type star key random for direct rotary handle ref. 4 210 07
- Ronis type flat key random for vari-depth handle ref. 4 210 08
- Profalux type star key random for vari-depth handle ref. 4 210 09
- Ronis type flat key (cod. EL43525) for direct rotary handle ref. 4 228 00
- Ronis type flat key (cod. EL43363) for direct rotary handle ref. 4 228 01
- Ronis type flat key (cod. EL43525) for vari-depth handle ref. 4 228 02
- Ronis type flat key (cod. EL43363) for vari-depth handle ref. 4 228 03

Direct (general pourpose)

- DPX³ direct rotary handle ref. 4 201 60
- DPX³ emergency direct rotary handle ref. 4 201 73

Vari-depth handle IP55 (general pourpose)

- DPX³ vari depth rotary handle ref. 4 201 61
- DPX³ emergency vari depth rotary handle ref. 4 201 74

Locking accessories (for rotary handle general pourpose)

- Key barrel and flat key for direct handles ref. 4 201 64
- Key barrel and flat key EL43525 for direct handles ref. 4 201 65
- Key barrel and flat key EL43363 for direct handles ref. 4 201 66
- Key barrel and flat key for vari-depth handles ref. 4 201 67
- Key barrel and flat key EL43525 for vari-depth handles ref. 4 201 68
- Key barrel and flat key EL43363 for vari-depth handles ref. 4 201 69

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8.4 Connection accessories

Cage terminals

- terminals for Cu/Al cables kit (3P) - flex 1x120mm²max., rigid 1x150mm²max. ref. 4 210 30
- terminals for Cu/Al cables kit (4P) - flex 1x120mm² max. rigid 1x150mm² max. ref. 4 210 31
- screw terminals for bar connections (3P) ref. 4 210 79
- screw terminals for bar connections (4P) ref. 4 210 80

Cage terminal use specifications

DPX ³ 250							
Type of cage terminal	Cable standard suggested cross section (mm²)*			Dimensions limits of cable for cage terminals			
	In (A)	Cu	Al	MIN cross section (mm²)		MAX cross section (mm²)	
				Flexible	Rigid	Flexible	Rigid
Standard	16	2,5	4	2,5	4	120	150
	20	2,5	4				
	25	4	6				
	32	6	10				
	40	10	16				
	50	10	16				
	63	16	25				
	80	25	35				
	100	35	50				
	125	50	70				
	160	70	\				
	200	95	\				
	250	120	\				
* The suggested cross section are in compliance with standard IEC60947-1 (ed.6 2020/04) and IEC60947-2 (ed.5.1 2019/07)							

Front spreaders

- DPX³ front spreaders for 3P DPX³ 250 (set of 3) ref. 4 210 34
- DPX³ front spreaders for 4P DPX³ 250 (set of 4) ref. 4 210 35

Fixing plates

For fixing DPX³ 250 on DIN rail or on a plate

- DPX³ 250 3P/4P without earth leakage module ref. 4 210 72
- DPX³ 250 3P/4P with side mounting motor operator ref. 4 210 69

8.5 Mechanical accessories

Insulated shields (phase barriers)

- Set of 36 ref. 4 210 70

Sealable terminal shields

- sealable terminal shield for front spreaders 3P ref. 4 210 56
- sealable terminal shield for front spreaders 4P ref. 4 210 57

Padlocks

- DPX³ padlock accessory for handle ("open" position) ref. 4 210 49

Interlock

- DPX³ interlock for fixed version ref. 4 210 58

8.6 Motor operator

- side motor operator 24-230 Vac/dc ref. 4 210 60

Locking accessories for side motor operator

- Ronis type flat key (cod. ABA90GEL6149) for side motor operator ref. 4 210 65
- Profalux type flat key (cod. HBA90GPS6149) for side motor operator ref. 4 210 66
- padlock for side motor operator ref. 4 210 67

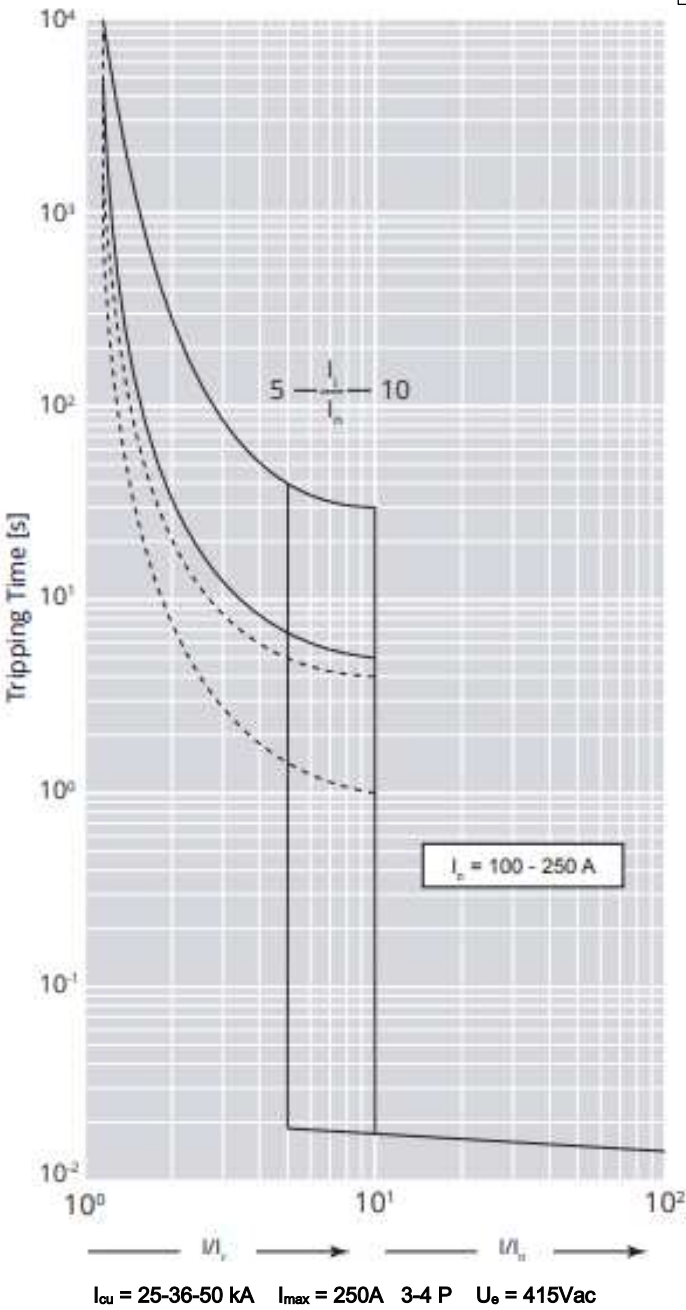
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9. CURVES

9.1 Thermal magnetic tripping curve

Update: 19/04/2018



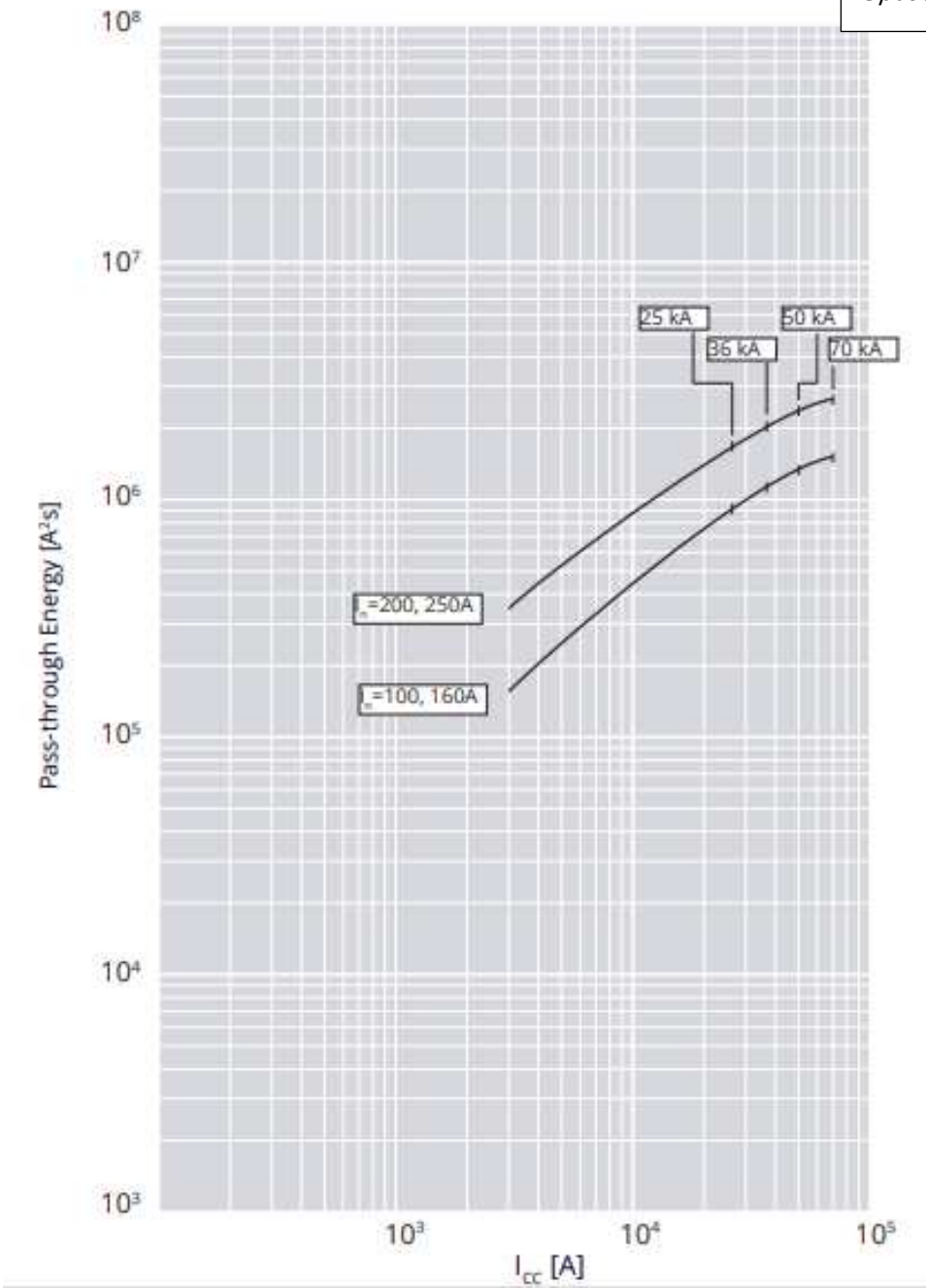
Value	Description
t	time
I	current
I_n	rated current
I_r	long time setting current
curve 1	characteristic with cold start
curve 2	characteristic with hot start

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9.2 Pass-through specific energy characteristic curve

Update: 24/04/2018



I_{cu} = 25-36-50 kA I_{max} = 250A 3-4 P U_o = 415Vac

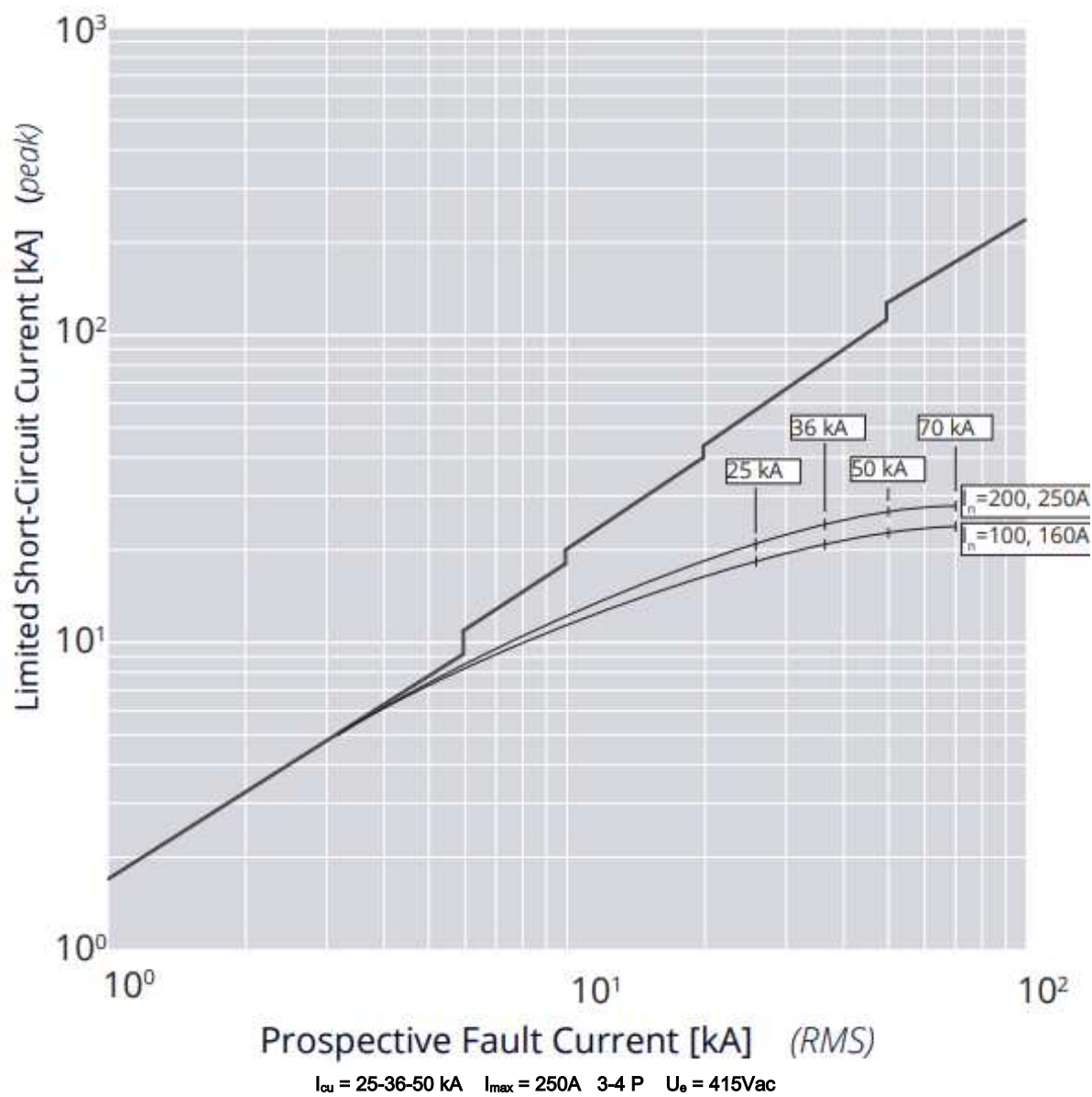
Value	Description
I_{cc}	short circuit current
I^2t (A²s)	pass-through specific energy

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9.3 Cut-off peak current characteristic curve (kA)

Update: 07/05/2018



Value	Description
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

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A) Derating Temperature and configurations

		Ambient temperature									
		30 °C		40 °C		50 °C		60 °C		70 °C	
Fixed version		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
DPX ³ 250 fixed - vertical installation	Cage terminals, flexible cable	263	1,05	250	1	250	1	225	0,9	213	0,85
	Cage terminals, flexible cable + sealable terminal shields	0	0	0	0	0	0	0	0	0	0
	Cage terminals, rigid cable	0	0	0	0	0	0	0	0	0	0
	Lugs, flexible cable	250	1	250	1	250	1	238	0,95	225	0,9
	Lugs, rigid cable	0	0	0	0	0	0	0	0	0	0
	Spreaders, flexible cables	250	1	250	1	250	1	238	0,95	225	0,9
	Spreaders, rigid cable	0	0	0	0	0	0	0	0	0	0
	Rear flat staggered terminals, flexible cable/elds	0	0	0	0	0	0	0	0	0	0
	Rear flat staggered terminals, rigid cable	0	0	0	0	0	0	0	0	0	0
	Lugs, flexible cable + sealable terminal shields	250	1	250	1	250	1	238	0,95	225	0,9
	Rear flat staggered term., flex. cable + sealable term. shields	250	1	250	1	250	1	238	0,95	225	0,9
DPX ³ 250 fixed - horizontal installation	Cage terminals, flexible cable	0	0	0	0	0	0	0	0	0	0
	Cage terminals, flexible cable + sealable terminal shields	0	0	0	0	0	0	0	0	0	0
	Cage terminals, rigid cable	0	0	0	0	0	0	0	0	0	0
	Lugs, flexible cable	250	1	250	1	250	1	238	0,95	225	0,9
	Lugs, rigid cable	0	0	0	0	0	0	0	0	0	0
	Spreaders, flexible cables	250	1	250	1	250	1	238	0,95	225	0,9
	Spreaders, rigid cable	0	0	0	0	0	0	0	0	0	0
	Rear flat staggered terminals, flexible cable/elds	0	0	0	0	0	0	0	0	0	0
	Rear flat staggered terminals, rigid cable	0	0	0	0	0	0	0	0	0	0
	Lugs, flexible cable + sealable terminal shields	250	1	250	1	250	1	238	0,95	225	0,9
	Rear flat staggered term., flex. cable + sealable term. shields	250	1	250	1	250	1	238	0,95	225	0,9

B) Use in DC

B.1 Circuit breakers: breaking capacity in DC (kA) (*values estimates only*)

		1 pole *	2 poles in series *				3 poles in series *		
I _{cu} (kA)	I _n (A)	60 V	60 V	110 V	250 V	110 V	250 V	500 V	
25	16 ÷ 160	25	25	25	10	25	12	10	
36	16 ÷ 160	35	36	35	10	36	16	10	
50	16 ÷ 160	35	50	35	10	50	20	10	

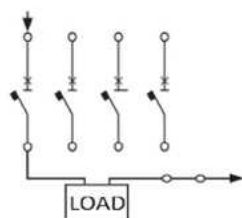
DC breaking capacity in the table respect the standards.

The positive tolerance is between 0% to 5% of voltage status

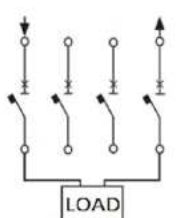
Applied to DC networks insulated from the ground

(*this diagram applies to both 3P and 4P circuit breakers*):

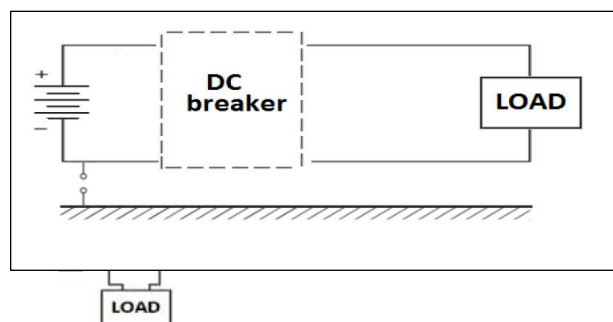
* Connection modality of the DC breaker:



1 pole



2 poles in series



3 poles in series

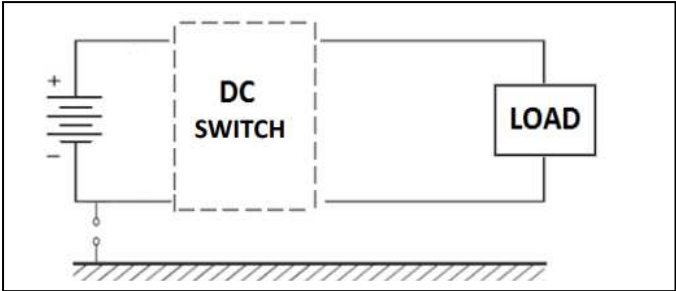
DPX³ 250
Thermal magnetic and trip-free switches
DPX³-I 250

Reference(s) : 420 205 / 207 / 208 / 209 / 215 / 217 / 218 / 219
420 235 / 237 / 238 / 239 / 245 / 247 / 248 / 249
420 265 / 267 / 268 / 269 / 275 / 277 / 278 / 279
420 299 / 300

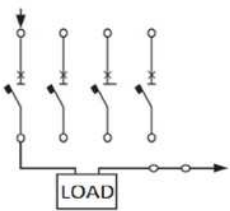
B.2 Switch disconnectors: category of use

	1 pole *	2 poles in series *		3 poles in series *	4 poles in series *
I _n (A)	60 V	110 V	250 V	500 V	750 V
250	DC23	DC23	DC23	DC23	DC23

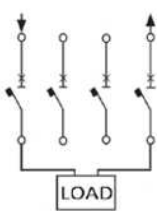
Applied to DC networks insulated from the ground



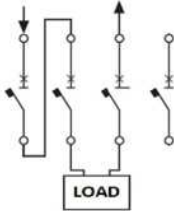
* Connection modality for DC switch disconnectors (polarity can be inverted):



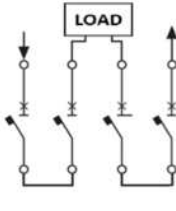
1 pole



2 poles in series



3 poles in series



4 poles in series

Data indicated in this document refers exclusively to test conditions according to product standards, unless otherwise indicated in the documentation.

For the different conditions of use of the product, inside electrical equipment or in any case inserted in the installation context, refer to the regulatory requirements of the equipment, local regulations and design specifications of the system