

# DPX<sup>3</sup> 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 XL<sup>3</sup> 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 mm<sup>2</sup> max. (flexible cable) or 150 mm<sup>2</sup> max. rigid cable (p. 133)  
 and with DPX<sup>3</sup> 160 and 250 common auxiliaires and accessories (p. 134)  
 Conform to IEC 60947-2












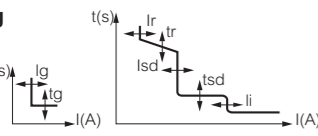
Pack	Cat.Nos		MCCBs - fixed version
			Thermal adjustable from 0,8 to 1 In Magnetic adjustable from 5 to 10 In
			<b>Breaking capacity Icu 25 kA (400 V~)</b>
	3P	4P	In (A)
1	4 202 05	4 202 15	100
1	4 202 07	4 202 17	160
1	4 202 08	4 202 18	200
1	4 202 09	4 202 19	250
			<b>Breaking capacity Icu 36 kA (400 V~)</b>
1	4 202 35	4 202 45	100
1	4 202 37	4 202 47	160
1	4 202 38	4 202 48	200
1	4 202 39	4 202 49	250
			<b>Breaking capacity Icu 50 kA (400 V~)</b>
1	4 202 65	4 202 75	100
1	4 202 67	4 202 77	160
1	4 202 68	4 202 78	200
1	4 202 69	4 202 79	250
			<b>Breaking capacity Icu 70 kA (400 V~)</b>
1	4 206 05	4 206 15	100
1	4 206 07	4 206 17	160
1	4 206 08	4 206 18	200
1	4 206 09	4 206 19	250

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 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)
		<b>Breaking capacity Icu 25 kA (400 V~)</b>
	4P	In (A)
1	4 202 25	100
1	4 202 27	160
1	4 202 28	200
1	4 202 29	250
		<b>Breaking capacity Icu 36 kA (400 V~)</b>
1	4 202 55	100
1	4 202 57	160
1	4 202 58	200
1	4 202 59	250
		<b>Breaking capacity Icu 50 kA (400 V~)</b>
1	4 202 85	100
1	4 202 87	160
1	4 202 88	200
1	4 202 89	250
		<b>Breaking capacity Icu 70 kA (400 V~)</b>
1	4 206 25	100
1	4 206 27	160
1	4 206 28	200
1	4 206 29	250



DPX<sup>3</sup>

electrical characteristics

																																					
DEVICES	DPX <sup>3</sup> 160 thermal magnetic				DPX <sup>3</sup> 250 thermal magnetic				DPX <sup>3</sup> 250 electronic release				DPX <sup>3</sup> 630 thermal magnetic				DPX <sup>3</sup> 630 electronic release				DPX <sup>3</sup> 1600 thermal magnetic				DPX <sup>3</sup> 1600 electronic release												
Mounting	On rail  or on plate				On rail  or on plate				On rail  or on plate				On plate				On plate				On plate				On plate												
Breaking capacity (kA) (EN 60947-2 and IEC 60947-2)	16 kA	25 kA	36 kA	50 kA	25 kA	36 kA	50 kA	70 kA	25 kA	36 kA	50 kA	70 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 kA	50 kA	70 kA	100 kA									
380/415 V~	16	25	36	50	25	36	50	70	25	36	50	70					36	50	70	100	36	50	70	100	36	50	70	100	36	50	70	100					
220/240 V~	25	35	50	65	40	60	100	100	40	60	100	100					70	100	120	170	70	100	120	170	70	100	120	170	70	100	120	170					
Breaking capacity (% Icu)	100	100	100	100	100	100	100	100	100	100	100	100					100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100					
Characteristic of use																																					
Nominal frequency	50/60 Hz												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)				690 V~				690 V~				690 V~				690 V~												
Category of use	A				A				A				A				A: In 630 A - B: In 200 to 400 A				A				B												
Thermal magnetic adjustment																																					
	Thermal	0,8 to 1 In				0,8 to 1 In				-				0.8 to 1 In				-				0.8 to 1 In				-											
	Magnetic	10 In (400 A for 16 A and 25 A sizes)				5 to 10 In				-				5 to 10 In				-				5 to 10 In				-											
Electronic protection adjustment																																					
	S2													S2				Sg																			
		Ir = 0.4 - 1 x In												•				•				Ir = 0.4 - 1 x In															
Sg													Ir = 3-30 s				•				•																
													I <sub>sd</sub> = 1.5 - 10 I <sub>r</sub>				•				•																
												tsd (I=K) = 0-500 ms				•				•																	
												tsd (I≠K) = 0-500 ms				•				•																	
												I <sub>g</sub> = 0.2 - 1 x In				•				•																	
												t <sub>g</sub> = 0.1 - 1 s				•				•																	
												Ir : 0.4 to 1 In																									
												I <sub>sd</sub> : 1.5 to 10 I <sub>r</sub>																									
Maximum cable cross-section																																					
Rigid cable	150 mm <sup>2</sup>				150 mm <sup>2</sup>				150 mm <sup>2</sup>				300 mm <sup>2</sup> or 2 x 240 mm <sup>2</sup>				300 mm <sup>2</sup> or 2 x 240 mm <sup>2</sup>				2 or 4 x 240 mm <sup>2</sup>				2 or 4 x 240 mm <sup>2</sup>												
Flexible cable	120 mm <sup>2</sup>				120 mm <sup>2</sup>				120 mm <sup>2</sup>				240 mm <sup>2</sup> or 2 x 185 mm <sup>2</sup>				240 mm <sup>2</sup> or 2 x 185 mm <sup>2</sup>				2 or 4 x 185 mm <sup>2</sup>				2 or 4 x 185 mm <sup>2</sup>												
Copper bar and lug width	18 mm				28.5 mm <sup>(1)</sup>				28.5 mm <sup>(1)</sup>				32 mm				32 mm				50 mm				50 mm												
Tightening torque	8 Nm				10 Nm				10 Nm				15 Nm				15 Nm				20 Nm				20 Nm												
Nominal current (In) at 40 °C (A)																																					
In (A)	16	25	40	63	80	100	125	160	100	160	200	250	40	100	160	250	250	320	400	500	630	250	320	400	500	630	500	630	800	1000	1250	500	630	800	1000	1250	1600
Phase	16	25	40	63	80	100	125	160	100	160	200	250	40	100	160	250	250	320	400	500	630	250	320	400	500	630	500	630	800	1000	1250	500	630	800	1000	1250	1600
N	16	25	40	63	80	100	125	160	100	160	200	250	40	100	160	250	250	320	400	500	630	0 - 50 - 100 % of phase value				500	630	800	1000	1250	0 - 50 - 100 % of phase value						
N/2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	250	250	250	320	-				-	-	-	500	630	-						
Magnetic threshold (Im) (A) <sup>(2)</sup> of DPX <sup>3</sup> thermal magnetic																																					
In (A)	Fixed								Adjustable				Adjustable				Adjustable																				
	16, 25, 40, 63, 80, 100, 125, 160								100, 160, 200, 250				-				250, 320, 400, 500, 630				500, 630, 800, 1000, 1250																
	400, 400, 400, 630, 800, 1000, 1250, 1600								125-250, 200-400, 315-630, 500-1000				-				1250-2500, 1600-3200, 2000-4000, 2500-5000, 3150-6300				2500-5000, 3150-6300, 4000-8000, 5000-10000, 6250-12500																
	400, 400, 400, 630, 800, 1000, 1250, 1600								125-250, 200-400, 315-630, 500-1000				-				1250-2500, 1600-3200, 2000-4000, 2500-5000, 3150-6300				2500-5000, 3150-6300, 4000-8000, 5000-10000, 6250-12500																
N	400, 400, 400, 630, 800, 1000, 1250, 1600								125-250, 200-400, 315-630, 500-1000				-				1250-2500, 1600-3200, 2000-4000, 2500-5000, 3150-6300				2500-5000, 3150-6300, 4000-8000, 5000-10000, 6250-12500																
	-								-				-				-																				
N/2	-								-				-				-				-																
	-								-				-				-				-																
Endurance (cycles)																																					
Electrical	8000				8000				8000				5000				5000				4000				4000												
Mechanical	25000				20000				20000				10000				20000				10000				10000												
Electronic earth leakage module																																					
Type	without or integrated				without or integrated				without or integrated				downstream e.l.c.bs.				downstream e.l.c.bs.				-				-												

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

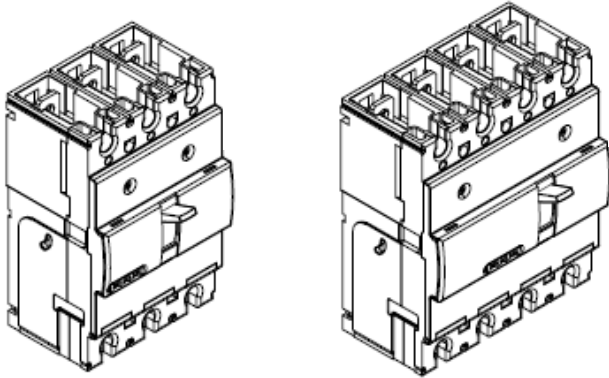
 For DPX<sup>3</sup> magnetic release only, Please, consult us

# DPX<sup>3</sup> 250

## Thermal magnetic and trip-free switches

### DPX<sup>3</sup>-I 250

Reference(s) : 420 205/ 207/ 208/209/ 215/ 217/ 218/ 219/ 235/ 237/ 238/ 239/ 245/ 247/ 248/ 249/ 265/ 267/ 268/ 269/ 275/ 277/ 278/ 279/ 605/ 607/ 608/ 609/ 615/ 617/ 618/ 619/ 299/ 300



#### CONTENTS

CONTENTS	PAGES
1. USE	1
2. RANGE	1
3. DIMENSIONS	1
3. DIMENSIONS (NEXT)	2
4. ELECTRICAL AND MECHANICAL CHARACTERISTICS	2
5. CONFORMITY	4
6. MARKING	4
7. EQUIPMENTS AND ACCESSORIES	4
8. CURVES	6

### 1. USE

DPX<sup>3</sup> "moulded case" offers optimal solutions to answer protection requirements of tertiary and industrial installations.

### 2. RANGE

DPX<sup>3</sup>

In (A)	25 kA		36 kA		50 kA		70 kA	
	3P	4P	3P	4P	3P	4P	3P	4P
100	420205	420215	420235	420245	420265	420275	420605	420615
160	420207	420217	420237	420247	420267	420277	420607	420617
200	420208	420218	420238	420248	420268	420278	420608	420618
250	420209	420219	420239	420249	420269	420279	420609	420619

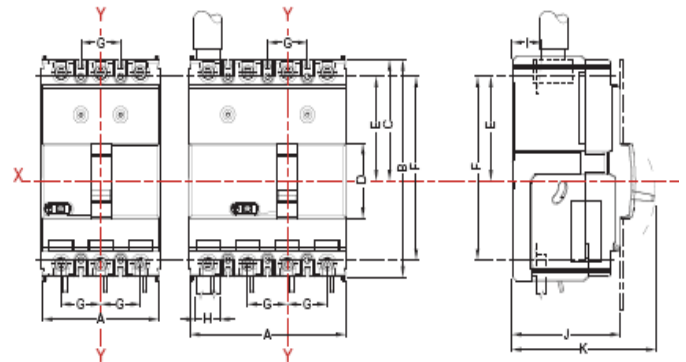
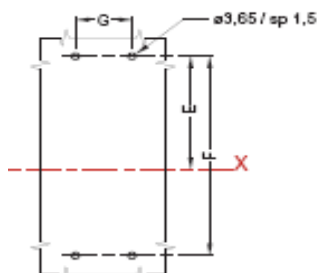
DPX<sup>3</sup>-I

	3P	4P
250	420299	420 300

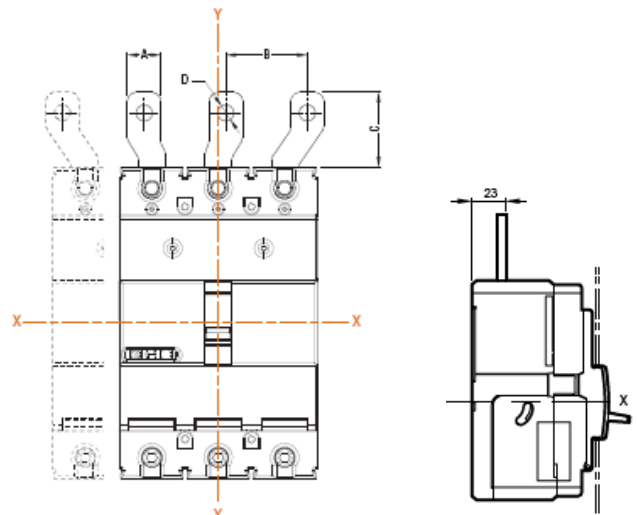
### 3. DIMENSIONS

#### 3.1 Fixed version

	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



#### 3.2 Fixed version, front terminals



	A	B	C	D
250	33	48,5	54,75	13

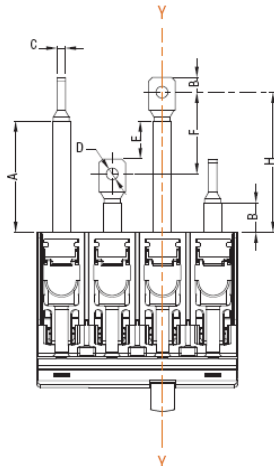
# DPX<sup>3</sup> 250

## Thermal magnetic and trip-free switches

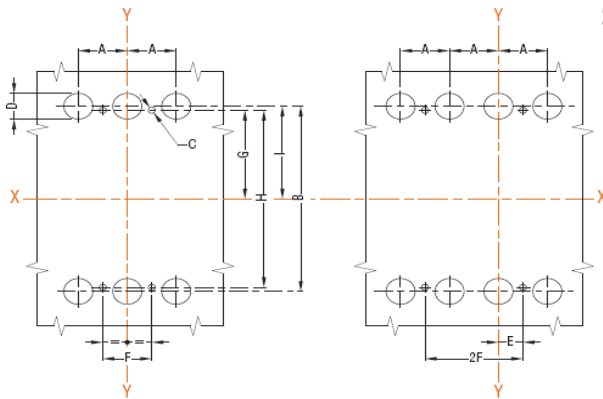
### DPX<sup>3</sup>-I 250

Reference(s) 420 205/ 207/ 208/209/ 215/ 217/ 218/ 219/ 235/ 237/ 238/ 239/ 245/ 247/ 248/ 249/ 265/ 267/ 268/ 269/ 275/ 277/ 278/ 279/ 605/ 607/ 608/ 609/ 615/ 617/ 618/ 619/ 299/ 300

#### 3.3 Fixed version, rear terminals

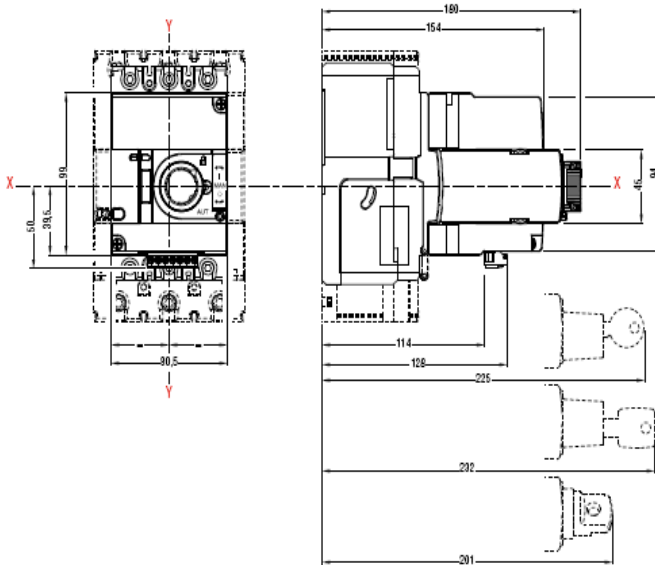


	A	B	C	D	E	F	G	H
250	66,5	22,5	6	8,4	15,5	44	15	80

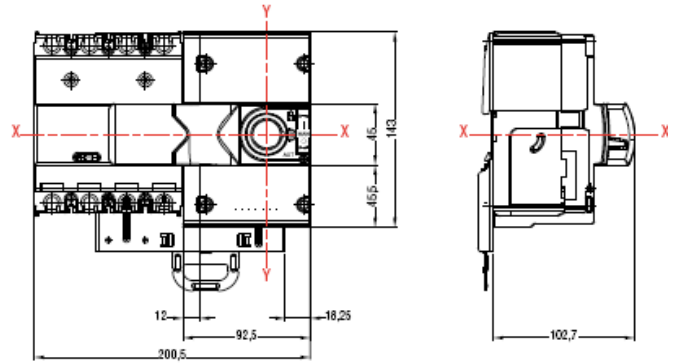


	A	B	C	D	E	F	G	H	I
250	35	142,5	3,65	19	17,5	35	61,5	123	71,5

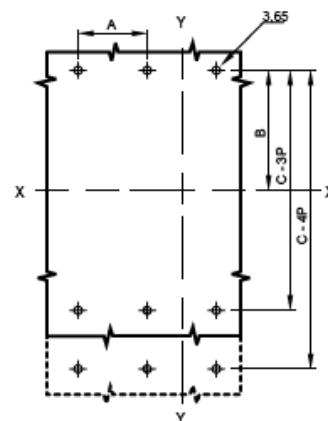
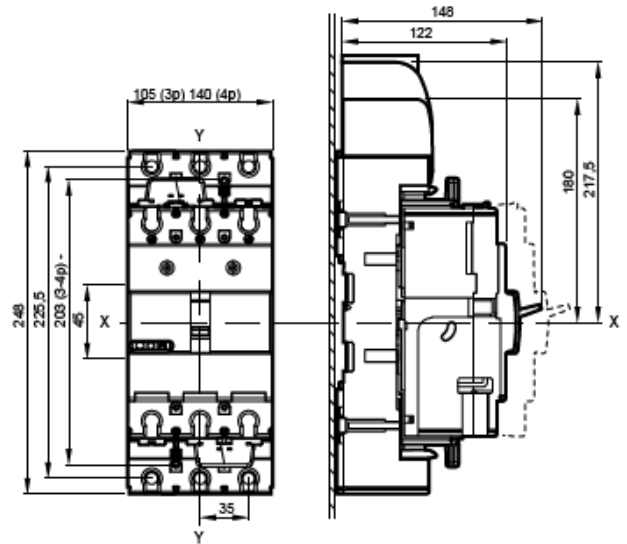
#### 3.4 Fixed version, front motor operator



#### 3.5 Fixed version, side motor operator



#### 3.6 Plug-in version



	A	B	C
DPX <sup>3</sup> 250	35	103	206

# DPX<sup>3</sup> 250

## Thermal magnetic and trip-free switches

### DPX<sup>3</sup>-I 250

Reference(s) 420 205/ 207/ 208/209/ 215/ 217/ 218/ 219/ 235/ 237/  
238/ 239/ 245/ 247/ 248/ 249/ 265/ 267/ 268/ 269/ 275/ 277/ 278/ 279/  
605/ 607/ 608/ 609/ 615/ 617/ 618/ 619/ 299/ 300

#### 4. ELECTRICAL AND MECHANICAL CHARACTERISTICS

##### 4.1 Breaker technical characteristics

Circuit breaker	DPX <sup>3</sup> 250
Rated current I <sub>n</sub> (A)	100-250
Rated insulation voltage U <sub>i</sub> (V)	800
Rated operational voltage U <sub>e</sub> (V)	690 V (ac) 500 V (dc)
Rated impulse withstand voltage U <sub>imp</sub> (kV)	8
Ambient temperature (°C)	40
Endurance electrical / mechanical	8000/20000
Utilization category	A
Releases type	thermal-mag
Nominal frequency (Hz)	50-60
Thermal adjustment	0,8 ÷ 1 I <sub>n</sub>
Magnetic threshold	5 ÷ 10 x I <sub>n</sub>

##### 4.2 Switches technical characteristics

Switches	DPX <sup>3</sup> -I 250
Rated current I <sub>n</sub> (A)	250
Rated insulation voltage U <sub>i</sub> (V)	800
Rated operational voltage U <sub>e</sub> (V)	690 V (ac) 500 V (dc)
Rated impulse withstand voltage U <sub>imp</sub> (kV)	8
Ambient temperature (°C)	40
Endurance electrical / mechanical	8000/20000
Rated short-time withstand current I <sub>cw</sub> (1 s) (kA)	1,7
Rated short-circuit making capacity I <sub>cm</sub> (kA)	2,4
AC 22, AC 23, DC 22, DC 23 (A)	250

##### 4.3 Breaking capacity (KA)

Breaking capacity I <sub>cu</sub> and I <sub>cs</sub> in AC (kA)					
	U <sub>e</sub>	25 kA	36 kA	50 kA	70 kA
I <sub>cu</sub> (kA)	220/240V	40	60	80	100
	380/415V	25	36	50	70
	440V	20	30	40	60
	480/500V	10	25	30	40
	690V	8	16	18	20
I <sub>cs</sub> (%I <sub>cu</sub> )	-	100	100	100	100

##### 4.4 Derating temperature Ta (°C)

Influence of ambient temperature Ta(°C)												
I <sub>n</sub> (A)	-25	-20	-10	-5	0	10	20	30	40	50	60	70
100	135	132	128	126	123	120	112	102	100	94	90	84
160	216	211	205	201	197	192	179	163	160	151	143	134
200	270	264	256	251	246	240	224	203	200	189	179	168
250	338	330	320	314	308	300	280	254	250	236	224	210

##### 4.5 Power loss (W)

###### 4.5.1 Breaker power loss (W)

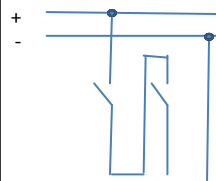
Power loss DPX <sup>3</sup> 250 (W)				
I <sub>n</sub> (A) ---->	100	160	200	250
Cage terminals	8,1	15,1	22,8	29,4
Lugs	8,1	15,1	22,8	29,4
External terminals	8,1	15,1	22,8	29,4
Spreaders	8,1	15,1	22,8	29,4
Rear terminals	8,1	15,1	22,8	29,4
Plugin version	10	20,5	30,8	41,9

###### 4.5.2 Switches power loss (W)

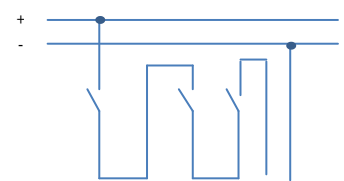
Power loss DPX <sup>3</sup> -I 250 (W)	
I <sub>n</sub> (A) ---->	250
Cage terminals	18,8
Lugs	18,8
External terminals	18,8
Spreaders	18,8
Rear terminals	18,8
Plugin version	31,3

##### 4.6 Short-circuit breaking capacity in D.C. current

Short-circuit breaking capacity in D.C. current				
	Breaking capacity I <sub>cu</sub> (kA)			
	2 p. in ser.	2 p. in ser.	3 p. in ser.	3 p. in ser.
	110-125V	250V	400V	500V
250 25 kA	50	25	30	25
250 36 kA	72	36	45	36
250 50 kA	80	40	50	40
250 70 kA	90	45	55	45



2 poles in series



3 poles in series

# DPX<sup>3</sup> 250

## Thermal magnetic and trip-free switches

### DPX<sup>3</sup>-I 250

Reference(s) 420 205/ 207/ 208/209/ 215/ 217/ 218/ 219/ 235/ 237/  
238/ 239/ 245/ 247/ 248/ 249/ 265/ 267/ 268/ 269/ 275/ 277/ 278/ 279/  
605/ 607/ 608/ 609/ 615/ 617/ 618/ 619/ 299/ 300

#### 4.7 Protection in DC

Protection in D.C. current		
	thermal	magnetic
250 25 kA	like AC	1,5 I <sub>m</sub> AC
250 36 kA	like AC	1,5 I <sub>m</sub> AC
250 50 kA	like AC	1,5 I <sub>m</sub> AC
250 70 kA	like AC	1,5 I <sub>m</sub> AC

#### 4.8 Altitude

Altitude (m)				
	Altitude (m)	≤2000	3000	4000
DPX <sup>3</sup> 250	Rated current (A)	1 x I <sub>n</sub>	0,96 x I <sub>n</sub>	0,93 x I <sub>n</sub>
	Rated voltage (V)	690	690	550
DPX <sup>3</sup> -I 250	Rated current (A)	1 x I <sub>n</sub>	0,96 x I <sub>n</sub>	0,93 x I <sub>n</sub>
	Rated voltage (V)	690	690	550

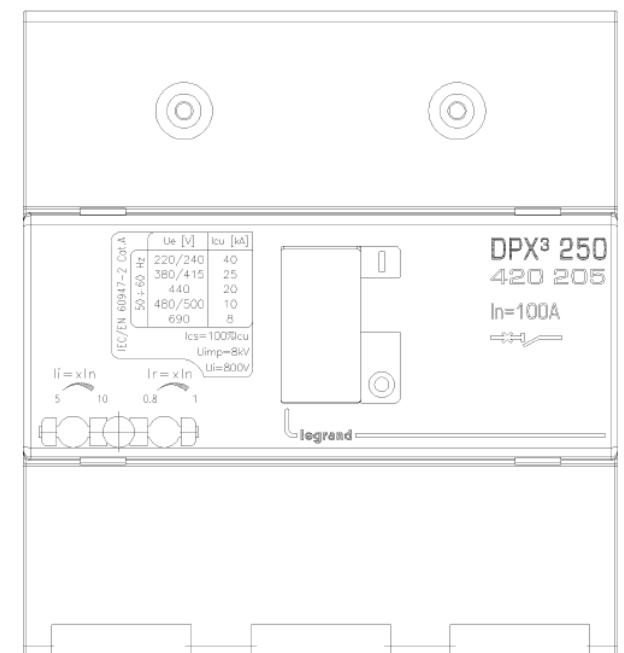
#### 4.9 Loads operation

Loads operation	
Rated current (A)	I <sub>n</sub> =250
Opening (N)	45
Closing (N)	78
Reset (N)	75

#### 5. CONFORMITY

IEC 60947-2  
(for switches IEC 60947-3)  
EN 60947-2  
(for switches EN 60947-3)

#### 6. MARKING



#### 7. EQUIPMENTS AND ACCESSORIES

##### 7.1 Releases

• Shunt releases with voltage:  
12 Vac/dc ref. 421 012  
24 Vac/dc ref. 421 013  
48 Vac/dc ref. 421 014  
110-130 Vac ref. 421 015  
200-277 Vac ref. 421 016  
380-480 Vac ref. 421 017

• undervoltage releases with voltage:  
12 Vac/dc ref. 421 018  
24 Vac/dc ref. 421 019  
48 Vac/dc ref. 421 020  
110 Vac ref. 421 021  
200-240 Vac ref. 421 022  
277 Vac ref. 421 023  
380-415 Vac ref. 421 024  
440-480 Vac ref. 421 025

• auxiliary contact:  
set of connectors for aux contacts ref. 421 044  
aux contacts and fault signal ref. 421 011  
aux contacts (1NC and 1 NO) for all rotary handles ref. 421 010  
inserted device signal ref. 421 048

##### 7.2 Rotary handles :

Direct:  
• DPX<sup>3</sup> direct rotary handle ref. 421 000  
• DPX<sup>3</sup> emergency direct rotary handle ref. 421 002

Vari-depht:  
• DPX<sup>3</sup> vari depth rotary handle ref. 421 004  
• DPX<sup>3</sup> emergency vari depth rotary handle ref. 421 005

##### Locking accessories

• locking acc. for direct rotary handle - ronis ref. 421 006  
• locking acc. for direct rotary handle - profalux ref. 421 007  
• locking acc. for vari depth rotary handle - ronis ref. 421 008  
• locking acc. for vari depth rotary handle - profalux ref. 421 009

##### 7.3 Mechanical accessories :

Insulated shields  
• Set of 3 ref. 421 070

##### Sealable terminal shields

• sealable terminal shield for rear terminals 250 3P ref. 421 052  
• sealable terminal shield for rear terminals 250 4P ref. 421 053  
• sealable terminal shield for front spreaders 250 3P ref. 421 056  
• sealable terminal shield for front spreaders 250 4P ref. 421 057

##### Padlocks

• DPX<sup>3</sup> padlock accessory for handle (off) ref. 421 049

##### Interlock:

• DPX<sup>3</sup> interlock mounting plate ref. 421 058  
• DPX<sup>3</sup> interlock for plug-in / draw-out version ref. 421 059

##### 7.4 Connection's accessories :

###### Cage terminals

• cage terminals for al or cu cables kit (3) - flex 1x120mm<sup>2</sup>, rigid 1x150mm<sup>2</sup>, bar/cable lug 18mm ref. 421 030  
• cage terminals for al or cu cables kit (4) - flex 1x120mm<sup>2</sup>, rigid 1x150mm<sup>2</sup>, bar/cable lug 18mm ref. 421 031

###### Front spreaders

• DPX<sup>3</sup> front spreaders for 3P DPX<sup>3</sup> 250 (3) ref. 421 034  
• DPX<sup>3</sup> front spreaders for 4P DPX<sup>3</sup> 250 (4) ref. 421 035

# DPX<sup>3</sup> 250

## Thermal magnetic and trip-free switches

### DPX<sup>3</sup>-I 250

Reference(s) 420 205/ 207/ 208/209/ 215/ 217/ 218/ 219/ 235/ 237/  
238/ 239/ 245/ 247/ 248/ 249/ 265/ 267/ 268/ 269/ 275/ 277/ 278/ 279/  
605/ 607/ 608/ 609/ 615/ 617/ 618/ 619/ 299/ 300

#### Rear terminals

- DPX<sup>3</sup> flat rear terminals for 3P DPX<sup>3</sup> 250 (3) ref. 421 038
- DPX<sup>3</sup> flat rear terminals for 4P DPX<sup>3</sup> 250 (4) ref. 421 039

#### 7.5 Plug-in version

##### Bases

- front/rear terminals plug-in base 3P DPX<sup>3</sup> 250 ref. 421 042
- front/rear terminals plug-in base 4P DPX<sup>3</sup> 250 ref. 421 043

##### Locking accessories

- locking accessory for plug-in base – ronis ref. 421 045
- locking accessory for plug-in base – profalux ref. 421 046
- padlock accessory for plug-in base ref. 421 047

#### 7.6 Motor operator

- side motor operator 24-230 Vac - 24-230 Vdc ref. 421 060
- front motor operator 24-230 Vac - 24-230 Vdc ref. 421 061

##### Locking accessories for front motor operator:

- locking acc. for front motor operator - ronis ref. 421 062
- locking acc. for front motor operator – profalux ref. 421 063
- padlock selector for front motor operator ref. 421 064

##### Locking accessories for side motor operator:

- locking acc. for side motor operator - ronis ref. 421 065
- locking acc. for side motor operator – profalux ref. 421 066
- padlock selector for side motor operator ref. 421 067

##### Din plate:

- DPX<sup>3</sup> din plate for motor operator DPX<sup>3</sup> 250 ref. 421 069

#### 7.7 Mounting on rail fixing plate

- DPX<sup>3</sup> din rail fixing plate DPX<sup>3</sup> 250 3P/4P ref. 421 072



# DPX<sup>3</sup> 250

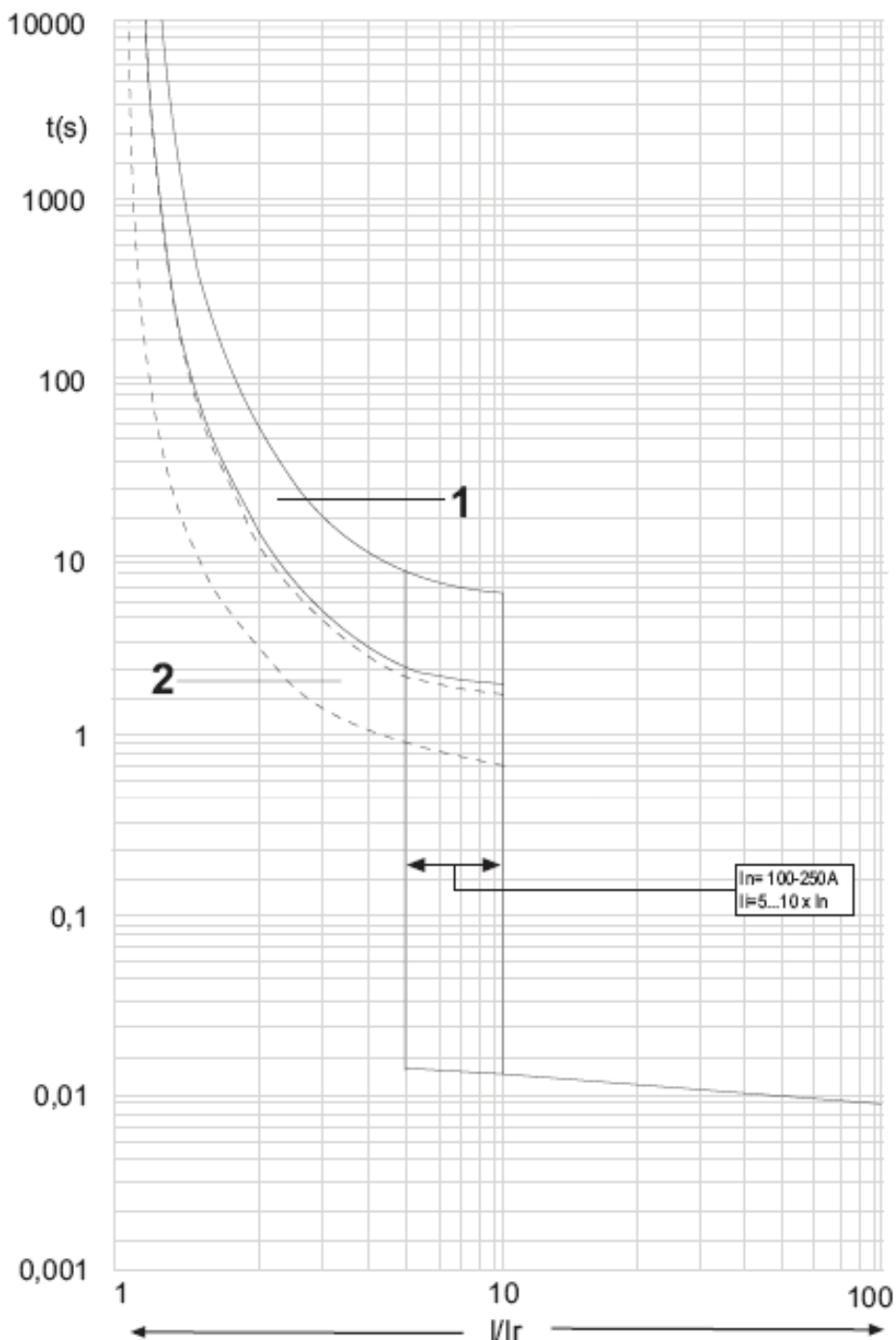
## Thermal magnetic and trip-free switches

### DPX<sup>3</sup>-I 250

Reference(s) 420 205/ 207/ 208/209/ 215/ 217/ 218/ 219/ 235/ 237/  
238/ 239/ 245/ 247/ 248/ 249/ 265/ 267/ 268/ 269/ 275/ 277/ 278/ 279/  
605/ 607/ 608/ 609/ 615/ 617/ 618/ 619/ 299/ 300

#### 8. CURVES

##### 8.1 TRIPPING CURVE



$t$  = time

$I$  = rated current  $\square$

$I_r$  = setting current

curve number 1 = characteristic with cold start

curve number 2 = characteristic with hot start



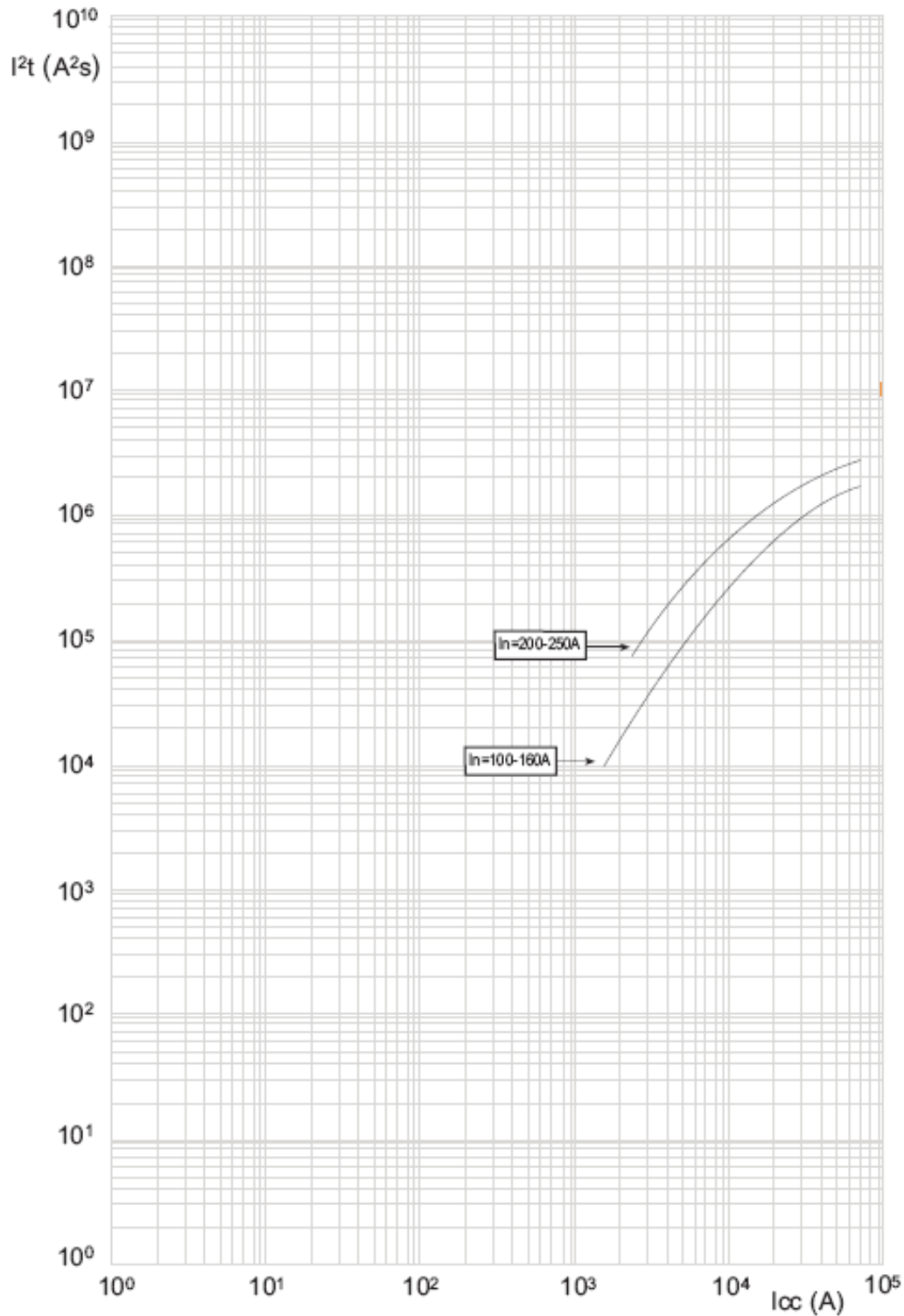
# DPX<sup>3</sup> 250

## Thermal magnetic and trip-free switches

### DPX<sup>3</sup>-I 250

Reference(s) 420 205/ 207/ 208/209/ 215/ 217/ 218/ 219/ 235/ 237/  
238/ 239/ 245/ 247/ 248/ 249/ 265/ 267/ 268/ 269/ 275/ 277/ 278/ 279/  
605/ 607/ 608/ 609/ 615/ 617/ 618/ 619/ 299/ 300

#### 8.2 Energy curve



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

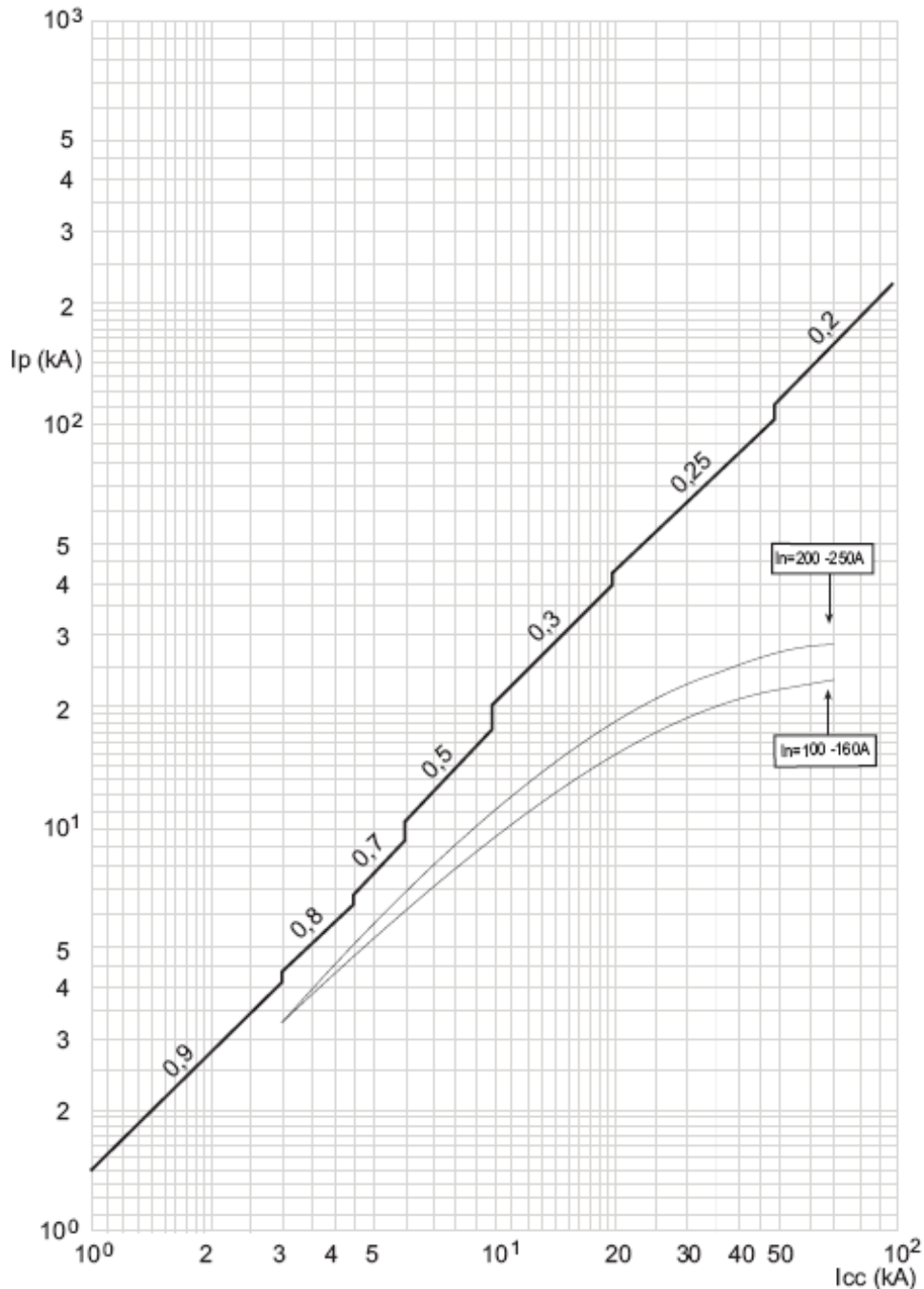
# DPX<sup>3</sup> 250

## Thermal magnetic and trip-free switches

### DPX<sup>3</sup>-I 250

Reference(s) 420 205/ 207/ 208/209/ 215/ 217/ 218/ 219/ 235/ 237/  
238/ 239/ 245/ 247/ 248/ 249/ 265/ 267/ 268/ 269/ 275/ 277/ 278/ 279/  
605/ 607/ 608/ 609/ 615/ 617/ 618/ 619/ 299/ 300

#### 8.3 Restricted current curve



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

$I_p$  = maximum short circuit peak current

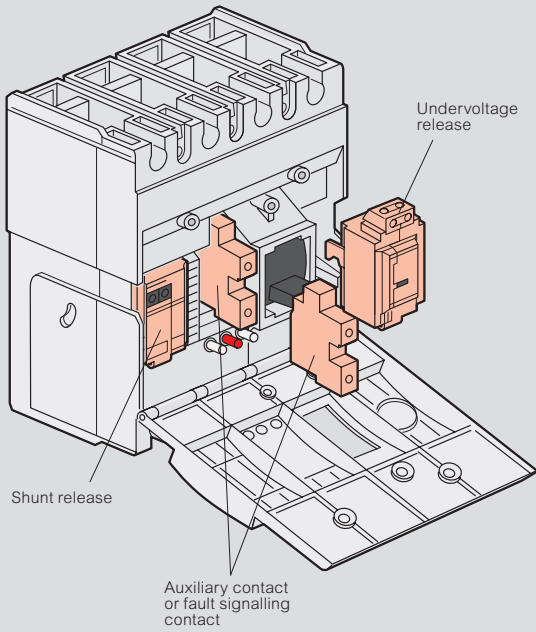
----- maximum prospective short circuit peak current  
corresponding at the power factor

————— maximum real peak short circuit current

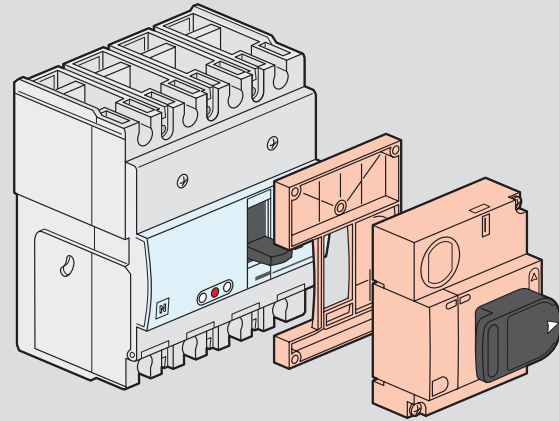
# DPX<sup>3</sup> 160/250

## installation principle

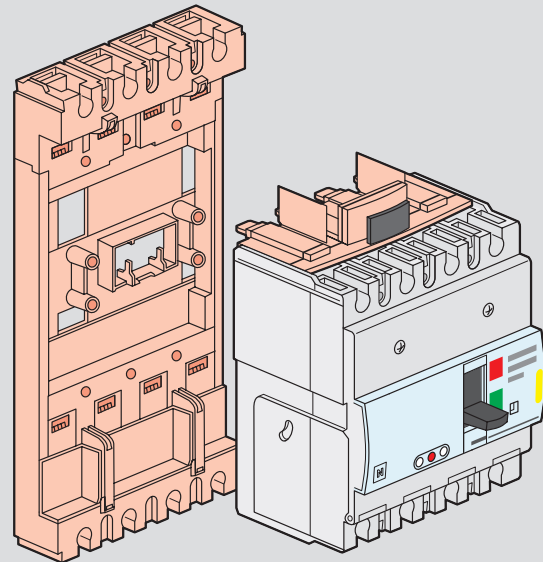
### Auxiliaries mounting



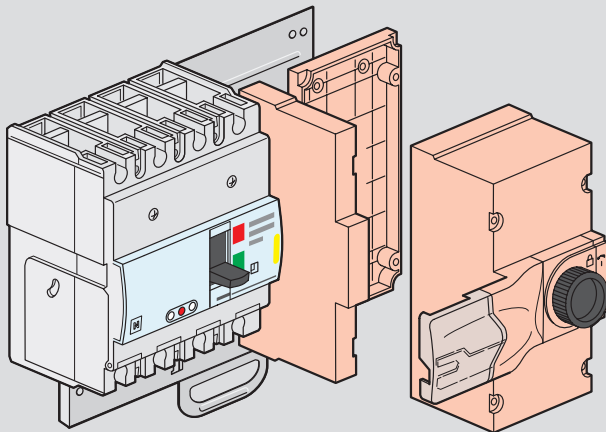
### Direct rotary handle



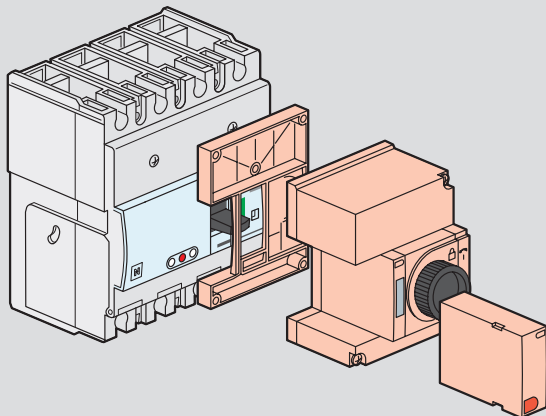
### Plug-in version



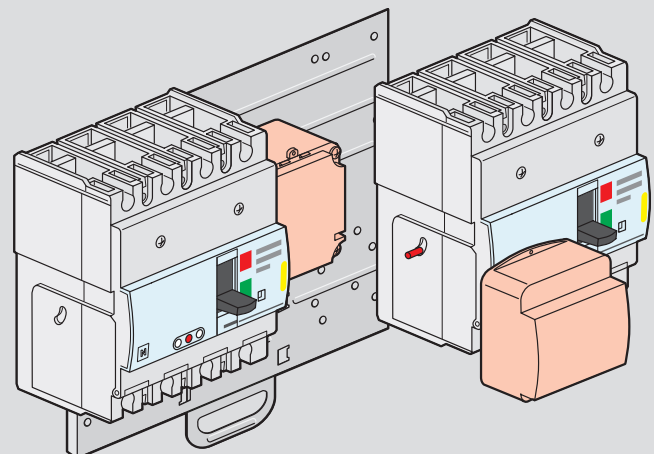
### Side mounting motor-driven handle

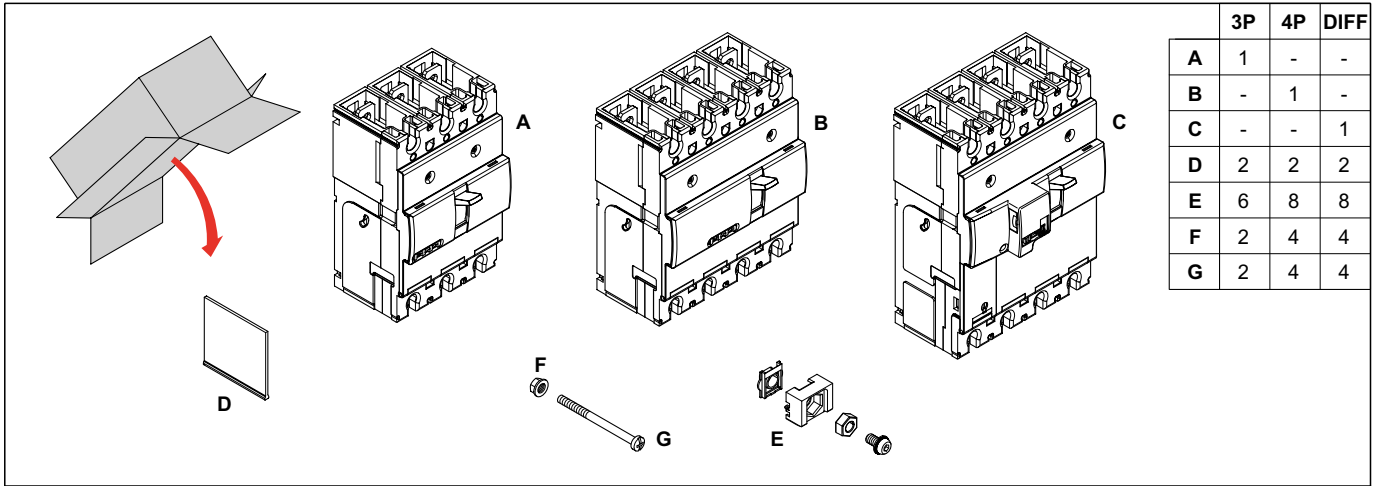


### Front mounting motor-driven handle



### Supply inverter type





	3P	4P	DIFF
A	1	-	-
B	-	1	-
C	-	-	1
D	2	2	2
E	6	8	8
F	2	4	4
G	2	4	4

