La legrand®

DPX³ 250 HP thermal magnetic circuit breakers

DPX³-I 250 HP switch disconnectors



1. USE

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

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

2. RANGE

Circuit breakers

		DPX ³ 250 HP									
	36	kA	50	kA	70	kA	100 kA				
I _n (A)	3P	4P	3P	4P	3P	4P	3P	4P			
16	423000	423015	423060	423075	423120	423135	423150	423165			
20	423001	423016	423061	423076	423121	423136	423151	423166			
25	423002	423017	423062	423077	423122	423137	423152	423167			
32	423003	423018	423063	423078	423123	423138	423153	423168			
40	423004	423019	423064	423079	423124	423139	423154	423169			
50	423005	423020	423065	423080	423125	423140	423155	423170			
63	423006	423021	423066	423081	423126	423141	423156	423171			
80	423007	423022	423067	423082	423127	423142	423157	423172			
100	423008	423023	423068	423083	423128	423143	423158	423173			
125	423009	423024	423069	423084	423129	423144	423159	423174			
160	423010	423025	423070	423085	423130	423145	423160	423175			
200	423011	423026	423071	423086	423131	423146	423161	423176			
250	423012	423027	423072	423087	423132	423147	423162	423177			

Switch disconnectors

DPX ³ -I 250 HP							
I _n (A) 3P 4P							
250	423180	423181					

87045 LIMOGES Cedex

Phone :+33 05 55 06 87 87 - Fax :+33 05 55 06 88 88

Reference(s) :

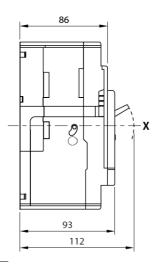
from 4 230 00 to 4 230 12; from 4 230 15 to 4 230 27; from 4 230 60 to 4 230 72; from 4 230 75 to 4 230 87; from 4 231 20 to 4 231 32; from 4 231 35 to 4 231 47; from 4 231 50 to 4 231 62; from 4 231 65 to 4 231 77; 4 231 80; 4 231 81;

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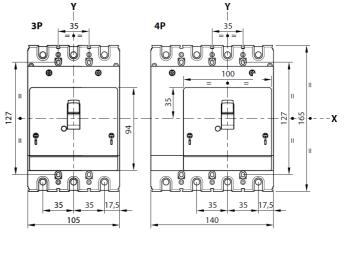
3. DIMENSIONS AND WEIGHTS

3.1 Dimensions

Lateral view

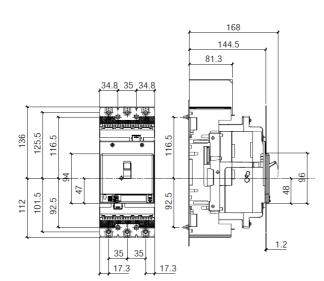


Frontal view (3 and 4 poles)

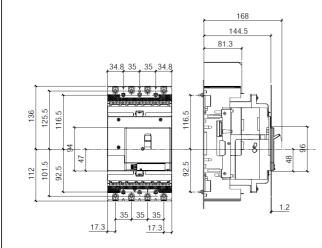


DPX³-I 250 HP switch disconnectors

Plug-in version (3P)

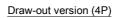


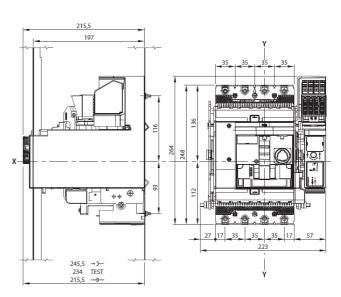
Plug-in version (4P)



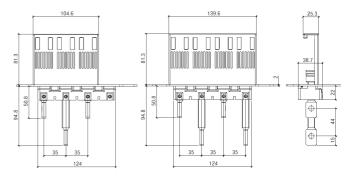
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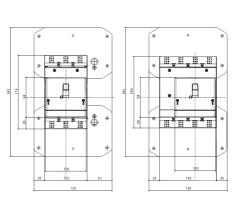
from 4 230 00 to 4 230 12; from 4 230 15 to 4 230 27; from 4 230 60 to 4 230 72; from 4 230 75 to 4 230 87; from 4 231 20 to 4 231 32; from 4 231 35 to 4 231 47; from 4 231 50 to 4 231 62; from 4 231 65 to 4 231 77; 4 231 80; 4 231 81;

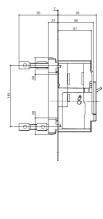




Rear terminals



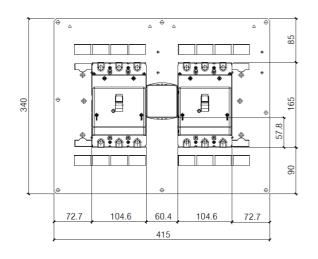




DPX³-I 250 HP switch disconnectors

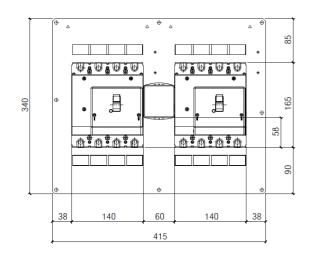
Interlock (3P)

(for rear plate interlock dimension, see relative instruction sheet)

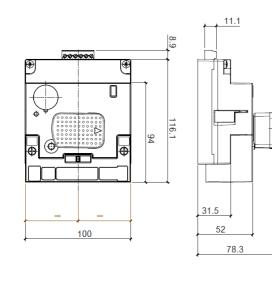


Interlock (4P)

(for rear plate interlock dimension, see relative instruction sheet)

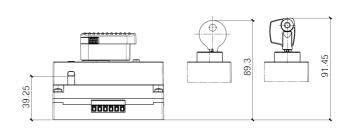


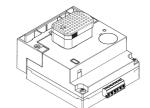
Direct rotary handle

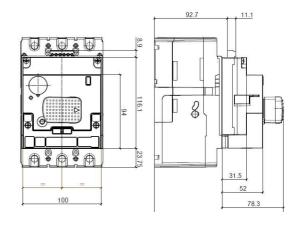


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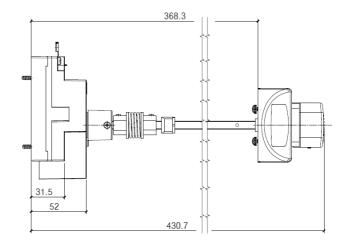
from 4 230 00 to 4 230 12; from 4 230 15 to 4 230 27; from 4 230 60 to 4 230 72; from 4 230 75 to 4 230 87; from 4 231 20 to 4 231 32; from 4 231 35 to 4 231 47; from 4 231 50 to 4 231 62; from 4 231 65 to 4 231 77; 4 231 80; 4 231 81;



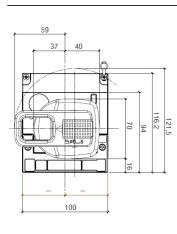


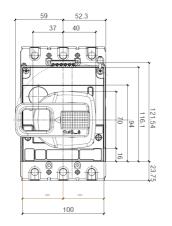


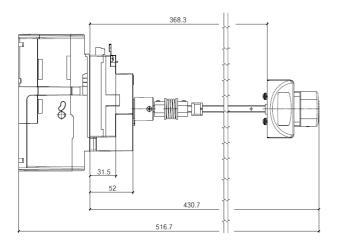
Vari-depth rotary handle



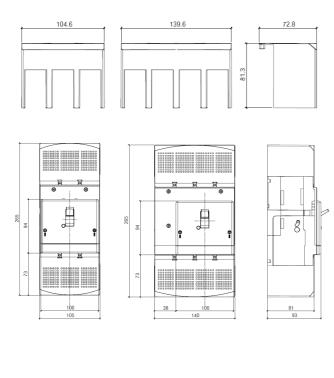
DPX³-I 250 HP switch disconnectors







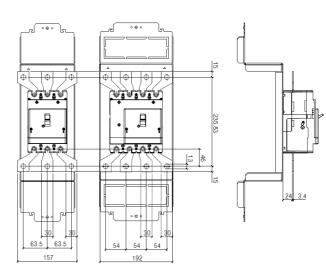
Sealable terminal shields



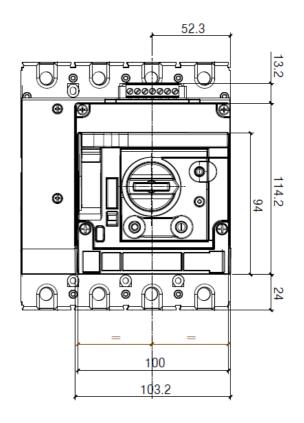
Reference(s) :

from 4 230 00 to 4 230 12; from 4 230 15 to 4 230 27; from 4 230 60 to 4 230 72; from 4 230 75 to 4 230 87; from 4 231 20 to 4 231 32; from 4 231 35 to 4 231 47; from 4 231 50 to 4 231 62; from 4 231 65 to 4 231 77; 4 231 80; 4 231 81;

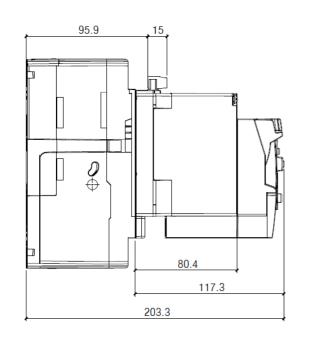


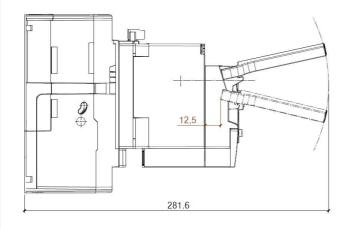


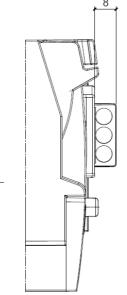
Motor operator



DPX³-I 250 HP switch disconnectors

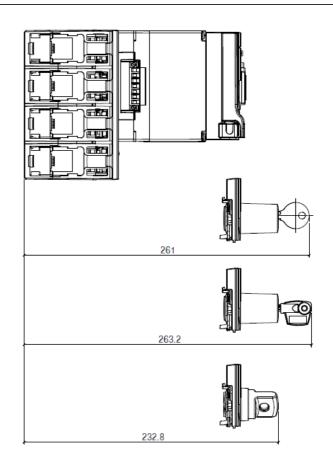






Reference(s) :

from 4 230 00 to 4 230 12; from 4 230 15 to 4 230 27; from 4 230 60 to 4 230 72; from 4 230 75 to 4 230 87; from 4 231 20 to 4 231 32; from 4 231 35 to 4 231 47; from 4 231 50 to 4 231 62; from 4 231 65 to 4 231 77; 4 231 80; 4 231 81;



3.2 Weights

	Weights (Kg)			
Configuration	3P	4P		
Circuit breaker/switch disconnector	1.5	1.9		
Plug-in*	3.5	4.5		
Draw-out**	2.5			
Interlock*	0.35			
Rear interlock (for plug-in/draw-out version)*	5			
Vlotor operator* 1				
* to add to device weight				
** to add to douise and plug in unights				

** to add to device and plug-in weights

4. OVERVIEW

4.1 Supplied with:

- fixing screws (2 for 3P and 4 for 4P)
- screws for connections (6 for 3P and 8 for 4P)
- phase insulators (2 for 3P and 3 for 4P)

5. ELECTRICAL CONNECTIONS

5.1 Mounting possibilities

On plate:

- Vertical
- Horizontal
- Supply invertor type

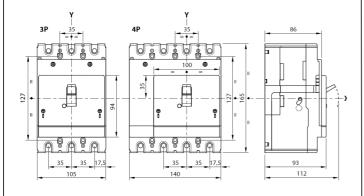
Technical sheet: F03042EN/03

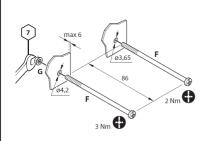
Update: 24/06/2021

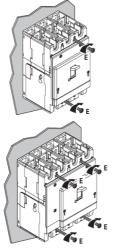
DPX³-I 250 HP switch disconnectors

5.2 Mounting

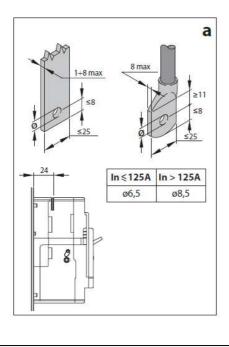
(see instruction sheet for detailed mounting procedures)







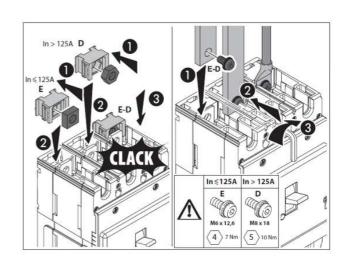
Busbars/cable lugs:

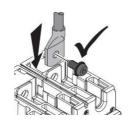


Technical sheet: F03042EN/03

Reference(s) :

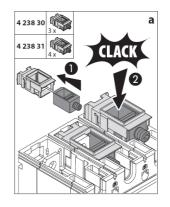
from 4 230 00 to 4 230 12; from 4 230 15 to 4 230 27; from 4 230 60 to 4 230 72; from 4 230 75 to 4 230 87; from 4 231 20 to 4 231 32; from 4 231 35 to 4 231 47; from 4 231 50 to 4 231 62; from 4 231 65 to 4 231 77; 4 231 80; 4 231 81;

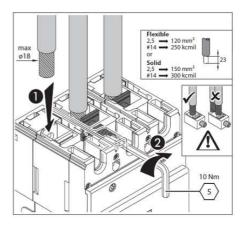






Cables:





Update: 24/06/2021

6. ELECTRICAL AND MECHANICAL CHARACTERISTICS

Circuit breaker

Circuit Breaker	DPX ³ 250 HP F/N/H/L (36kA, 50kA, 70kA, 100kA)
Rated current (A)	16-20-25-32-40-50-63-80-100-125-
Rated current (A)	160-200-250
Poles	3 - 4
Pole pitch (mm)	35
Rated insulation voltage (50/60Hz) U _I (V)	800
Rated operating voltage (50/60Hz) U _e (V)	690
Rated impulse withstand current Uimp (kV)	8
Rated frequency (Hz)	50 - 60
Reference ambient temperature(°C)	40 - 50
Operating temperature (°C)	-25 + 70
Mechanical endurance (cycles)	12000
Mechanical endurance with motor control (cycles)	12000
Electrical endurance at In (cycles)	6000
Electrical endurance at 0.5 ln (cycles)	6000
Utilization category	A
Suitable for isolation	Yes
Type of protection	Thermal-magnetic
Thermal adjustment Ir	0,8 - 0,9 - 1 x l _n
-	400 A up to In=40A (not adjustable)
Magnetic adjustment I _I (A)	6,5-10-13 x l _n for In=50A;
• • • • • • • • • • • • • • • • • • • •	5-7,5-10 x l, up to =250A;
Neutral protection for 4P (%Ith of phase pole)	100
Dimensions (W x H x D) (mm)	105 x 165 x 86 (3P)
	140 x 165 x 86 (4P)

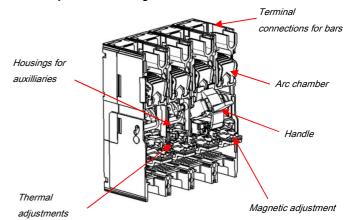
Switch disconnectors

Switch	DPX ³ -I 250 HP			
Uninterrupted nominal current I _e (A)	250			
Short-time resistive current I _{cw} (kA) for 1s	3			
Rated short-circuit making capacity I _{cm} (kA)	4.3			
Rated insulation voltage U _I (V AC)	800			
Maximum rated operating voltage U _e (V AC)	690 (In=160 A - 200 A - 250 A) - 415 (In=225 A)			
Rated impulse withstand voltage U _{imp} (kV)	8			
Utilisation category	AC23A (I _n <= 225A) - AC22A (I _n =250A)			
Suitable for isolation	Yes			
Nominal frequency (Hz)	50-60			
Operating temperature (°C)	-25 ÷ 70			
Mechanical endurance (cycles)	12000			
Mechanical endurance with motor control (cycles)	12000			
Electrical endurance at In (cycles)	6000			
Electrical endurance at 0.5 In (cycles)	6000			
	105 x 165 x 86 (3P)			
Dimensions (W x H x D) (mm)	140 x 165 x 86 (4P)			

Reference(s) :

from 4 230 00 to 4 230 12; from 4 230 15 to 4 230 27; from 4 230 60 to 4 230 72; from 4 230 75 to 4 230 87; from 4 231 20 to 4 231 32; from 4 231 35 to 4 231 47; from 4 231 50 to 4 231 62; from 4 231 65 to 4 231 77; 4 231 80; 4 231 81;





6.2 Breaking capacity (kA)

		Breaking capacity (kA) & I _{cs}							
		3P-4P							
	U _e /I _{cu} (I _{cu} letter)	36kA (F)	50kA (N)	70kA (H)	100kA (L)				
	240 V AC	70	90	100	150				
	415 V AC	36	50	70	100				
	500 V AC	16	18	30	35				
IEC 60947-2	690V AC	7	8	20	22				
	250 V DC	10	10	10	10				
	I _{cs} (% I _{cu})	100	100	100	100				
	Rated m	aking capa	city under sl	hort circuit	l _{cm}				
	I _{cm} (kA) at 415V	76.5	105	154	220				
	240 V AC	70	90	100	150				
NEMA AB-1	500 V AC	16	18	30	35				
	690 V AC	7	8	20	22				

6.3 Rated current (In) at 40°C / 50°C

	Phases limit trip current								
	therm	nal (I _r)	magnetic (I _i)						
In (A)	0.8 x I _n	1 x In	min	max					
16	13	16	400	400					
20	16	20	400	400					
25	20	25	400	400					
32	26	32	400	400					
40	32	40	400	400					
50	40	50	325	650					
63	51	63	315	630					
80	64	80	400	800					
100	80	100	500	1000					
125	100	125	625	1250					
160	128	160	800	1600					
200	160	200	1000	2000					
250	200	250	1250	2500					

6.3 Load operations

Force on handle	N
Opening operation	63,5
Closing operation	66
Restore operation	86,5

6.4 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)
36	350
50	300
70	250
100	200

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.

6.5 Power losses per pole under In

Circuit breaker

		Power losses per pole (W)											
In (A)	16	20	25	32	40	50	63	80	100	125	160	200	250
Cage terminals	2.99	4.47	5.34	4.99	7.67	5.76	9.45	7.22	7.77	12.73	11.8	14.89	21.21
Lugs	2.73	4.08	6.38	4.56	7.01	5.26	8.63	6.59	7.1	11.63	10.78	13.6	19.38
Spreaders	2.3	3.44	4.11	3.84	5.9	4.43	7.27	5.55	5.98	9.79	9.08	11.45	16.32
Rear terminals	2.82	4.21	5.03	4.7	7.23	5.42	8.9	6.8	7.32	11.99	11.12	14.03	19.99

Note: power lossed 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.

Switch disconnectors

	Power losses per pole (W)
	I _n (A)
	250
Cage terminals	14.84
Lugs	13.55
Spreaders	11.41
Rear terminals	13.98

Note: power loss in the table above are referred and measured as described in the standard IEC 60947-3 for switches. Values in the table are referred to a single phase.

Reference(s) :

from 4 230 00 to 4 230 12; from 4 230 15 to 4 230 27; from 4 230 60 to 4 230 72; from 4 230 75 to 4 230 87; from 4 231 20 to 4 231 32; from 4 231 35 to 4 231 47; from 4 231 50 to 4 231 62; from 4 231 65 to 4 231 77; 4 231 80; 4 231 81;

6.6 DERATINGS

according to IEC/EN 60947-1

6.6.1 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.

		Temperature Ta (°C)										
In (A)	-25	-20	-10	-5	0	10	20	30	40	50	60	70
16	22	23	22	21	21	20	18	17	16	16	14	14
20	29	29	27	26	26	24	23	21	20	20	18	17
25	37	36	34	33	32	30	29	27	25	25	23	21
32	47	46	44	42	41	39	37	34	32	32	29	27
40	59	57	54	53	52	49	46	43	40	40	36	34
50	74	72	68	66	64	61	57	54	50	50	45	43
63	93	90	86	83	81	77	72	68	63	63	57	54
80	118	114	109	106	103	98	92	86	80	80	72	68
100	147	143	136	132	129	122	115	107	100	100	90	85
125	184	179	170	166	161	152	143	134	125	125	113	106
160	235	229	218	212	206	195	184	172	160	160	144	136
200	294	286	272	265	258	244	230	215	200	200	180	170
250	368	358	340	331	332	305	287	269	250	250	225	213

For derating temperature with other configurations, see table A.

6.6.2 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 HP circuit breakers, degree 3, according to IEC/EN 60947-2

6.6.3 Altitude

Altitude derating for DPX3 and DPX3-I

Altitude (m)	2000	3000	4000	5000
U _e (V)	690	590	520	460
I_n (A) ($T_a = 40^{\circ}C/50^{\circ}C$)	1 x I _n	0.98 x I _n	0.93 x I _n	0.9 x I _n

6.6.4 Use in DC

See table B.

7. CONFORMITY

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

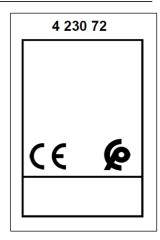
DPX³ HP respect the European Directives REACh, RoHS, RAEE.

For specific information, please contact Legrand support.

Reference(s) :

from 4 230 00 to 4 230 12; from 4 230 15 to 4 230 27; from 4 230 60 to 4 230 72; from 4 230 75 to 4 230 87; from 4 231 20 to 4 231 32; from 4 231 35 to 4 231 47; from 4 231 50 to 4 231 62; from 4 231 65 to 4 231 77; 4 231 80; 4 231 81;

Mark sticker label on side -Product code -Mark/Licence (if any) -Country deviation, if any



7.1 Marking

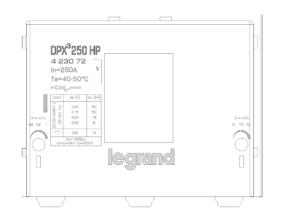
Product (both circuit breakers and switch disconnectors) are provided with labelling in full conformity to the referred standard and directives requirements by laser or sticker labels (for illustrative purposes only) as:

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



Packaging sticker label

-Manufacturer responsible

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



Design and Quality by LEGRAND (France)

Made in Italy

LEGRAND - Pro and (

1 DPX³ HP 4 230 72

Disjoncteur

- · Circuit breaker
- Interruptores automàtico • Автоматический выкл.
- 热磁式塑壳断路器
- قاطع الدارة .

In=250A 3P Icu 50kA





IEC/EN 60947-2



02 LIMOGES CEDEX FRANCE - 1

0:0

Co - BP 30076

Technical sheet: F03042EN/03

DPX³-I 250 HP switch disconnectors

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

UVR releases can be used on DPX3 125/250 HP starting from batch 19W15

 time-lag undervoltage releases (800 ms) <i>Time-lag modules with voltage:</i> 230 V ac 400 V ac 	ref. 0 261 90 ref. 0 261 91
Release (to be equipped with a time-lag module 0 261 90/91)	ref. 4 210 98

8.2 Auxiliary contacts

Auxiliary contacts (1NC and 1 NO)	ref. 4 238 06
(for rotary handle)	
Changeover switch 3A – 250 VAC	ref. 4 210 11
Signalling contact plugged-in / draw-out version	ref. 4 210 48

(Ref. 4 210 11 and . 4 210 48 are also for DPX³ 160/250)

To show the state of the contacts or opening of the DPX3/DPX3 -I and DPX³ HP/DPX³-I HP on a fault:

- Auxiliary contact (standard) OC 0 CTR
- Fault signal 0

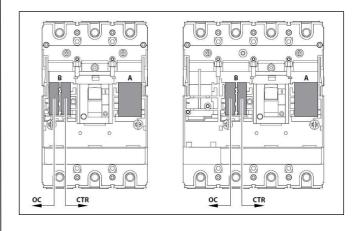
Auxiliary contact electrical characteristics		
Rated voltage (V _n)	V (ac or dc) 24 to 25	
	24 V dc	5
	48 V dc	1.7
Intensity (A)	110 V dc	0.5
intensity (A)	230 V dc	0.25
	110 V ac	4
	230/250 V ac	3

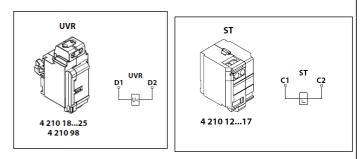
Reference(s) :

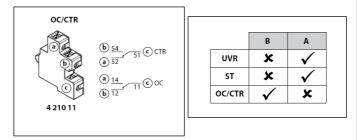
from 4 230 00 to 4 230 12; from 4 230 15 to 4 230 27; from 4 230 60 to 4 230 72; from 4 230 75 to 4 230 87; from 4 231 20 to 4 231 32; from 4 231 35 to 4 231 47; from 4 231 50 to 4 231 62; from 4 231 65 to 4 231 77; 4 231 80; 4 231 81;

Configurations:

DPX3 250 HP 1 auxiliary contacts + 1 fault signal







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

8.3 Universal keylocks

These keylocks must be used for all the accessories that can be locked:

- rotary handle •
- motor operator
- plug-in mechanism
- draw-out mechanism

For each of these, a specific accessory (indicated in the specific

section of this datasheet) must be added in order to get the complete

locking kits for the specific application.

- 1 lock + 1 flat key with random mapping ref. 4 238 80 1 lock + 1 flat key with fixed mapping (EL43525) ref. 4 238 81
- 1 lock + 1 flat key with fixed mapping (EL43363) ref. 4 238 82
- ref. 4 238 83 1 lock + 1 star key with random mapping

.

DPX³-I 250 HP switch disconnectors

8.3 Rotary handles

 Direct on DPX³ (with auxiliary option) Standard (black) For emergency use (red / yellow) 	ref. 4 238 00 ref. 4 238 01
 Vari-depth handle IP55 (with auxiliary option) Standard (black) For emergency use (red / yellow) 	ref. 4 238 02 ref. 4 238 03

Locking accessories (for rotary handle with auxiliary option)

Key lock accessory for direct rotary handle ref. 4 238 04
 Key lock accessory for vari-depth rotary handle (ref. 4 238 05 is compatible with DPX³ 125 HP also)

Ref. 4 238 04 and 4 238 05 must be used with universal keylocks to get the complete locking kit for rotary handle

8.4 Motor operators

For synchronized operations (energy storage type):

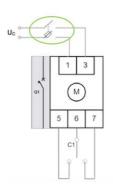
٠	24 Vac and dc	ref. 4 238 40
٠	48 Vac and dc	ref. 4 238 41
٠	110 Vac	ref. 4 238 42
•	230 Vac	ref. 4 238 43

Technical parameters:

Valtana	Discussion	A	C	D	С
Voltage	Property	Opening	Closing	Opening	Closing
	Maximum inrush power (VA)	75	430	55	320
24V ac/dc	Rated power (VA)	45	-	20	-
24V ac/uc	Absorption time (s)	2.8	0.01	3.3	0.01
	Operating current time (s)	1.1	0.03	1.2	0.03
	Maximum inrush power (VA)	85	1000	70	690
48V ac/dc	Rated power (VA)	65	-	15	-
46V ac/uc	Absorption time (s)	3.3	0.006	3.8	0.006
	Operating current time (s)	1.1	0.02	1.3	0.02
	Maximum inrush power (VA)	95	600	-	-
110V ac	Rated power (VA)	60	-	-	-
110v ac	Absorption time (s)	3	0.02	-	-
	Operating current time (s)	1.0	0.03	-	-
	Maximum inrush power (VA)	125	460	-	-
22014	Rated power (VA)	70	-	-	-
230V ac	Absorption time (s)	2.5	0.08	-	-
	Operating current time (s)	0.9	0.03	-	-

It is necessary to foresee a protection device (e.g. fuse) along the motor operator power line. The correct size of the fuse depends on the motor version and on the number of users.

Here a schematic example:



Reference(s) :

from 4 230 00 to 4 230 12; from 4 230 15 to 4 230 27; from 4 230 60 to 4 230 72; from 4 230 75 to 4 230 87; from 4 231 20 to 4 231 32; from 4 231 35 to 4 231 47; from 4 231 50 to 4 231 62; from 4 231 65 to 4 231 77; 4 231 80; 4 231 81;

Locking accessory (for motor operator)

Padlock (for motor operator locking) ref. 4 238 46
Key lock accessory for motor operator ref. 4 238 45

Ref. 4 238 45 must be used with universal keylocks to get the complete locking kit for motor operator

8.6 Mechanical accessories

- Padlock (for locking in "OPEN" position) ref. 4 210 49 (ref. 4 210 49 is compatible with DPX³ 125 HP and DPX³ 160/250)
- Sealable terminal shields:

 Set of 2 (for 3P)
 Set of 3 (for 4P)

 Insulated shields:

 Set of 2 (for 3P)
 ref. 4 238 24

 Insulated shields:

 Set of 2 (for 3P)
 ref. 4 238 34
 Set of 3 (for 4P)
 ref. 4 238 34
 Set of 3 (for 4P)

Set of 3 (for 4P)
 ref. 4 23
 ref. 4 238 34/35 are compatible with DPX³ 125 HP also)

8.7 Connection accessories

Cage terminals

- Set of 3 terminals for cables 150 mm² max (solid) *ref. 4 238 30* or 120 mm² max (flexible) Cu/Al
- Set of 4 terminals for cables 150 mm² max (rigid) *ref. 4 238 31* or 120 mm² max (flexible) Cu/Al

Spreaders (incoming or outcoming):

•	Set of 3 (for 3P)	ref. 6 250 14
•	Set of 4 (for 4P)	ref. 6 250 18

Rear terminals (incoming or outcoming):)

 Set of 3 (for 3P
 ref. 4 238 21

 Set of 4 (for 4P)
 ref. 4 238 22

DPX ³ 250 HP thermal magnetic circuit breakers DPX ³ -I 250 HP switch disconnectors	Reference(s) : from 4 230 00 to 4 230 12; from 4 230 15 to 4 230 27; from 4 230 60 to 4 230 72; from 4 230 75 to 4 230 87; from 4 231 20 to 4 231 32; from 4 231 35 to 4 231 47; from 4 231 50 to 4 231 62; from 4 231 65 to 4 231 77; 4 231 80; 4 231 81;		
 8.8 Plug-in version (A plug-in is a DPX³ 250 HP fitted with special terminals and mounte on a plug-in base) Base (for plug-in and draw-out versions for DPX² 250 HP and DPX⁻¹ 250 HP Plug-in/draw-out base for 3P ref. 4 238 50 Plug-in/draw-out base for 3P ref. 4 238 51 Plug-in/draw-out mobile part kit for 3P ref. 4 238 53 Plug-In accessories Locking accessory (for plug-in) Key lock accessory for plug-in ref. 4 238 63 must be used with universal keylocks to get the completed locking kit for plug-in version 	 8.9 Draw-out version (A DPX³ 250 HP draw-out version is a plug-in DPX³ 250 HP fitted with a "Debro-lift" mechanism which can be used to withdraw the breaker while keeping it on its base) <i>"Debro-lift" mechanism</i> (supplied with a rigid slide and handle for drawing-out) transformation kit for 3P ref. 4 238 60 transformation kit for 4P <i>Fontal masks for draw-out version</i> (to provide in addition to debro-lift mechanism according to accessory mounted) Frontal module, with frontal mask (3P and 4P) ref. 4 238 55 (if neither motor operator nor rotary handle are mounted) Frontal mask for motor operator (3P and 4P) ref. 4 238 56 		

DPX³-I 250 HP switch disconnectors

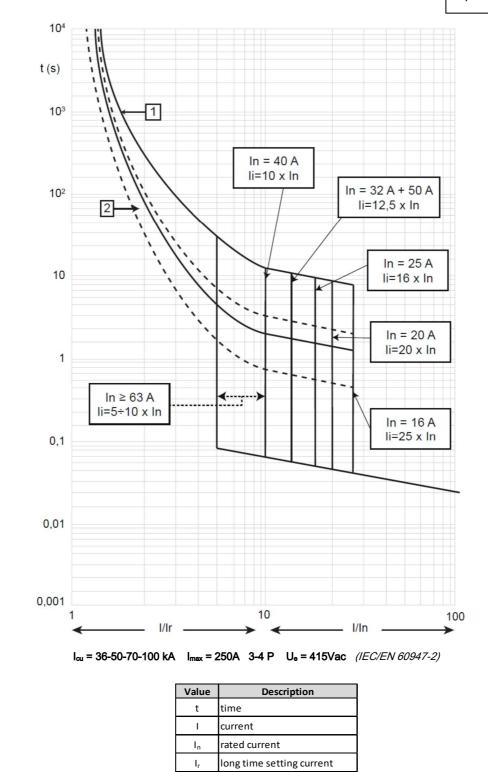
Reference(s) :

from 4 230 00 to 4 230 12; from 4 230 15 to 4 230 27; from 4 230 60 to 4 230 72; from 4 230 75 to 4 230 87; from 4 231 20 to 4 231 32; from 4 231 35 to 4 231 47; from 4 231 50 to 4 231 62; from 4 231 65 to 4 231 77; 4 231 80; 4 231 81;

9. CURVES

9.1 Thermal magnetic tripping curve

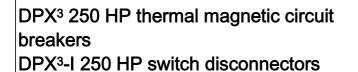
Update: 11/06/2019



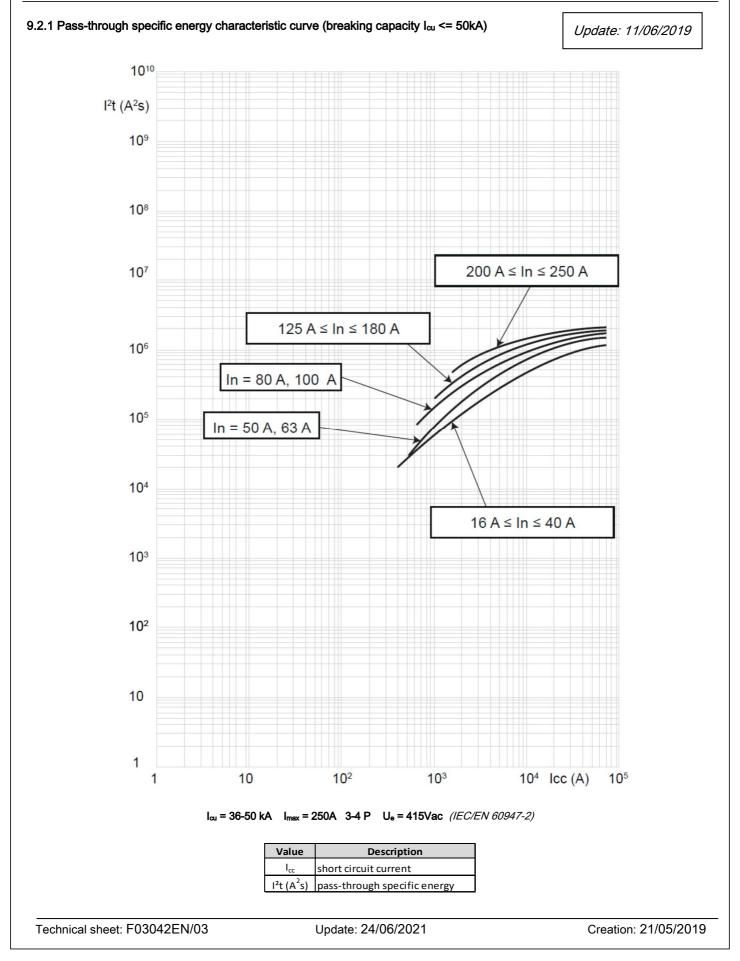
curve 2 characteristic with hot start

curve 1

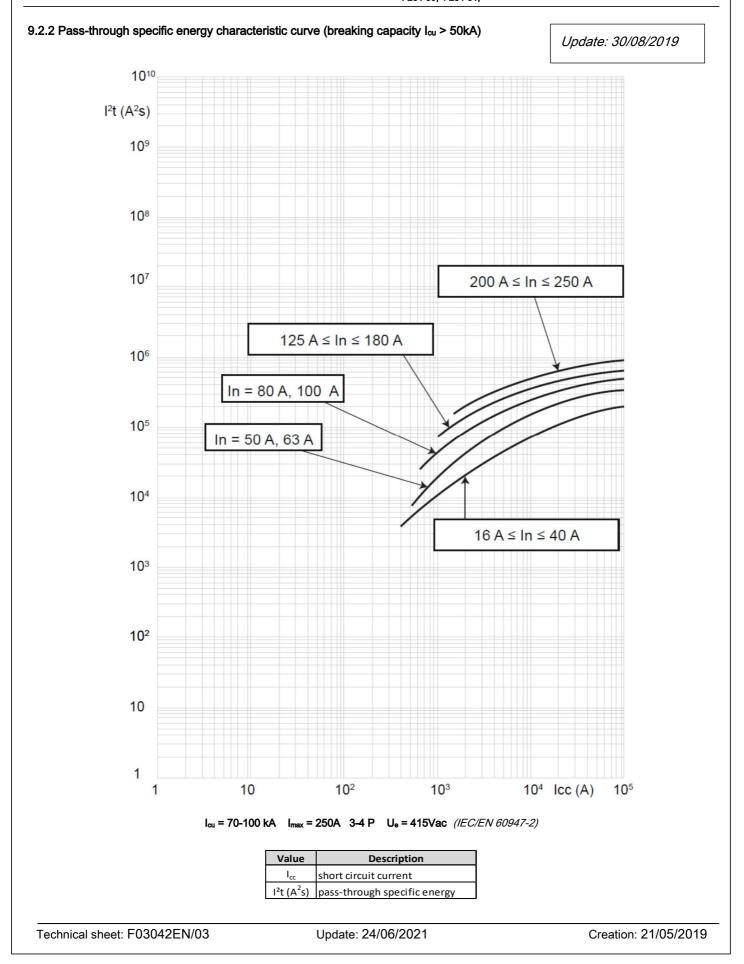
characteristic with cold start



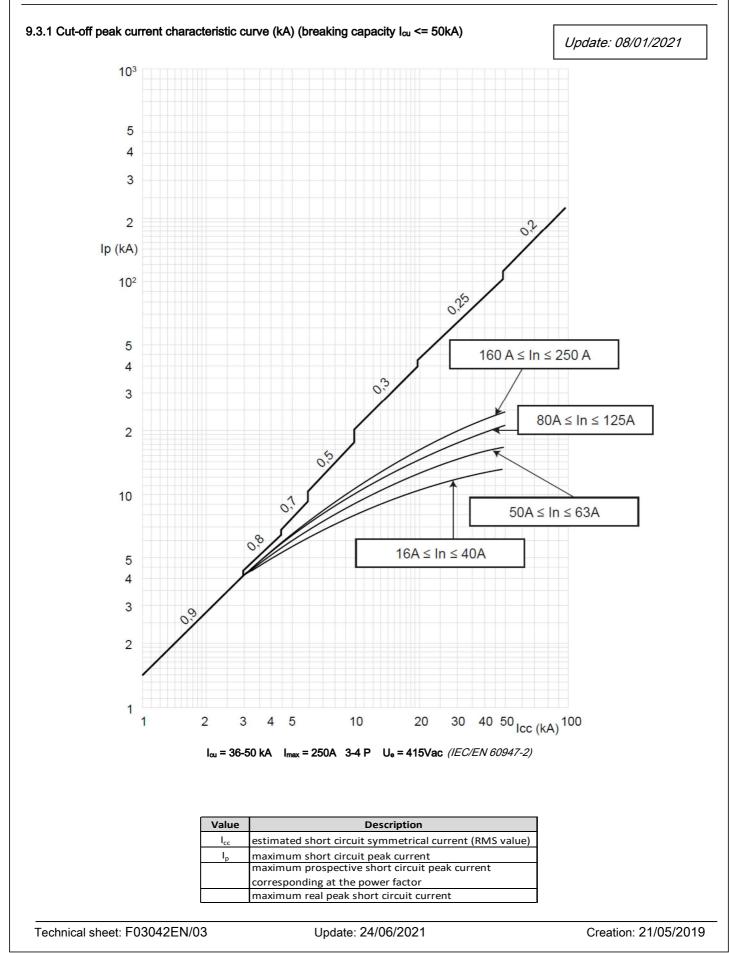
Reference(s) :



Reference(s) :

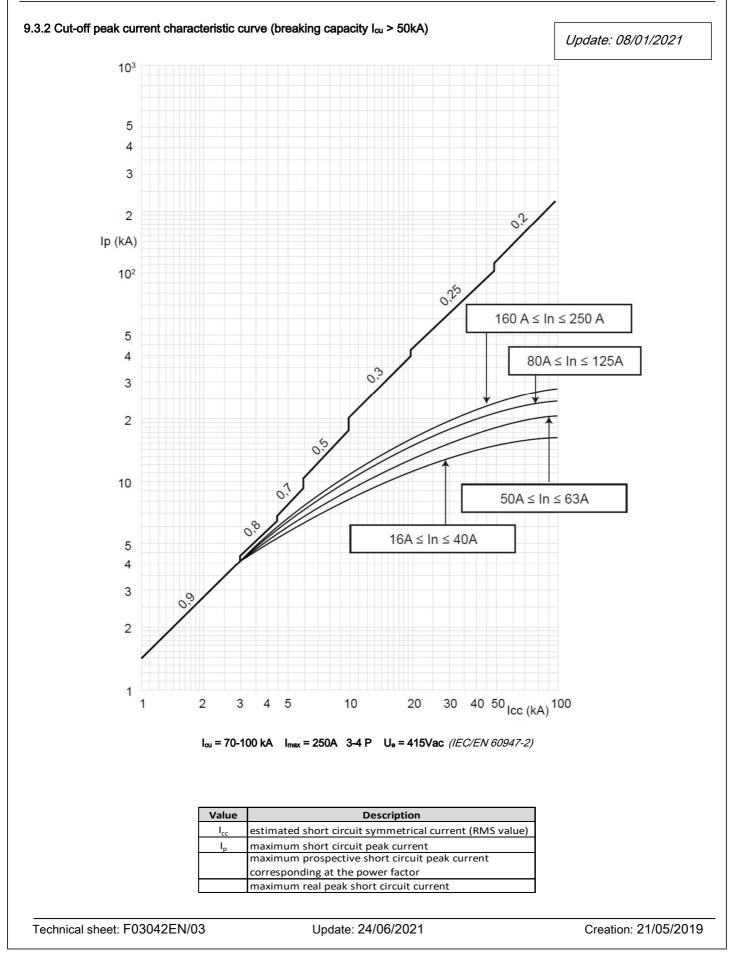


Reference(s) :



DPX³-I 250 HP switch disconnectors

Reference(s) :



Reference(s) :

from 4 230 00 to 4 230 12; from 4 230 15 to 4 230 27; from 4 230 60 to 4 230 72; from 4 230 75 to 4 230 87; from 4 231 20 to 4 231 32; from 4 231 35 to 4 231 47; from 4 231 50 to 4 231 62; from 4 231 65 to 4 231 77; 4 231 80; 4 231 81;

A) Derating Temperature and configurations

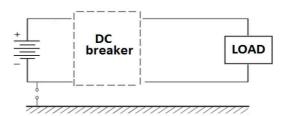
	Ambient temperature									
	30 °C		40 °C		50 °C		60 °C		70 °C	
Fixed version	I _{max} (A)	Ir / In	I _{max} (A)	Ir / In	I _{max} (A)	Ir / In	I _{max} (A)	Ir / In	I _{max} (A)	Ir / In
Cage terminals, flexible cable	250	1	250	1	250	1	255	0.90	213	0.85
Lugs, flexible cable	250	1	250	1	250	1	238	0.95	255	0.90
Spreaders, flexible cable	250	1	250	1	250	1	238	0.95	255	0.90
Plug-in/draw-out version	I _{max} (A)	Ir / In	I _{max} (A)	I _r / I _n	I _{max} (A)	Ir / In	I _{max} (A)	Ir / In	I _{max} (A)	I _r / I _n
Cage terminals, flexible cable	250	1	255	0.90	255	0.90	213	0.85	188	0.75

For further technical information, please contact Legrand technical support.

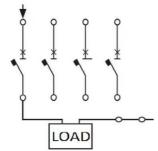
B) Breaking capacity in DC (kA)

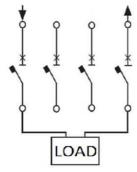
		1 pole *	2 ро	les in ser	ies *	3 poles in series *			
I _{cu} (kA)	I _n (A)	60 V	60 V	110 V	250 V	110 V	250 V	500 V	
36	16 ÷ 250	35	36	35	10	36	10	10	
50	16 ÷ 250	35	50	35	10	50	10	10	
70	16 ÷ 250	35	50	35	10	50	10	10	
100	16 ÷ 250	35	50	35	10	50	10	10	

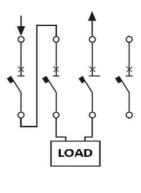
These values are applied to DC networks insulated from the ground (*this diagram applies to both 3P and 4P circuit breakers*):



* <u>Connection modality of the DC breaker:</u>







1 pole

2 poles in series

