

DPX³ 250 HP only magnetic circuit breakers

87045 LIMOGES Cedex

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

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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	
6.3	423901	423913	423925	423937	423949	423961	423973	423985	
12.5	423902	423914	423926	423938	423950	423962	423974	423986	
25	423903	423915	423927	423939	423951	423963	423975	423987	
32	423904	423916	423928	423940	423952	423964	423976	423988	
50	423905	423917	423929	423941	423953	423965	423977	423989	
80	423906	423918	423930	423942	423954	423966	423978	423990	
100	423907	423919	423931	423943	423955	423967	423979	423991	
160	423908	423920	423932	423944	423956	423968	423980	423992	
220	423909	423921	423933	423945	423957	423969	423981	423993	

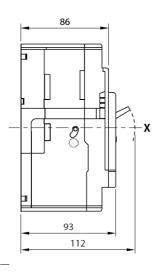
3. DIMENSIONS AND WEIGHTS

7. CONFORMITY

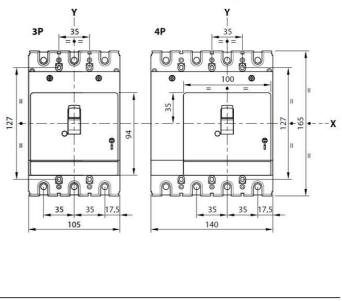
9. CURVES

3.1 Dimensions

Lateral view

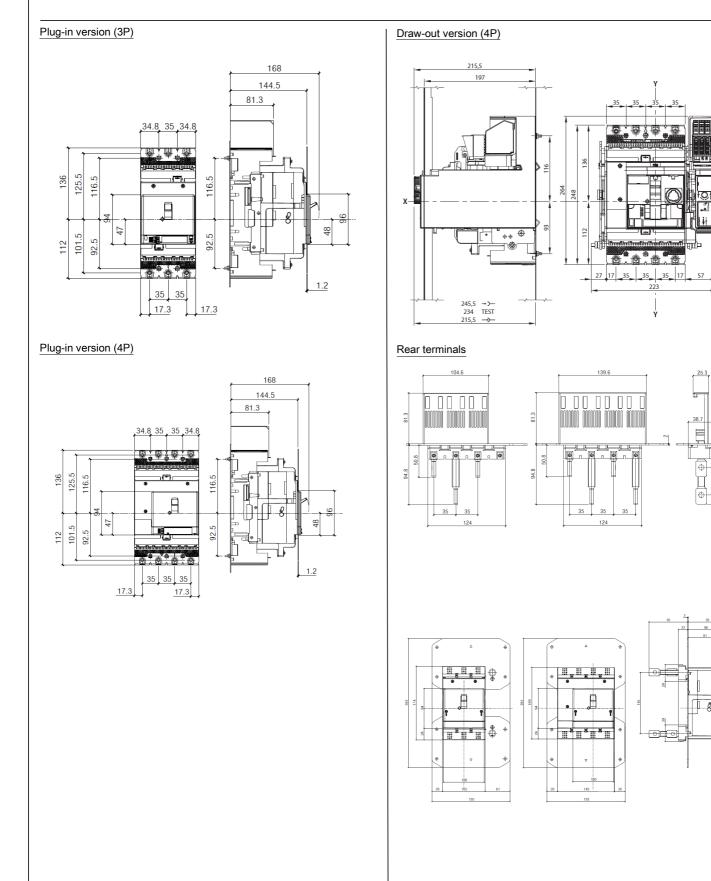


Frontal view (3 and 4 poles)



Reference(s) :

from 4 239 01 to 4 239 09; from 4 239 13 to 4 239 21; from 4 239 25 to 4 239 33; from 4 239 37 to 4 239 45; from 4 239 49 to 4 239 57; from 4 239 61 to 4 239 69; from 4 239 73 to 4 239 81; from 4 239 85 to 4 239 93;



Creation: 23/11/2020

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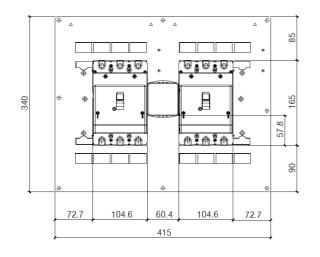
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Reference(s) :

from 4 239 01 to 4 239 09; from 4 239 13 to 4 239 21; from 4 239 25 to 4 239 33; from 4 239 37 to 4 239 45; from 4 239 49 to 4 239 57; from 4 239 61 to 4 239 69; from 4 239 73 to 4 239 81; from 4 239 85 to 4 239 93;

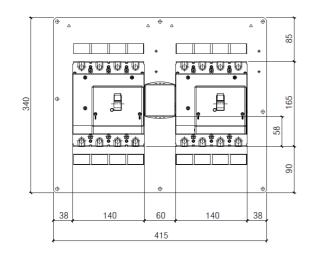
Interlock (3P)

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

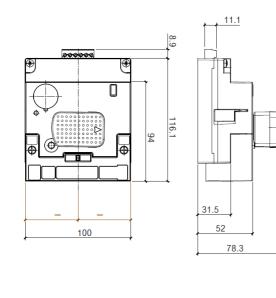


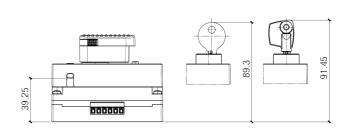
Interlock (4P)

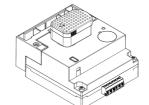
(for rear plate interlock dimension, see relative instruction sheet)

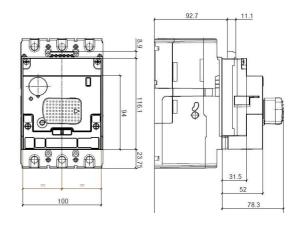


Direct rotary handle

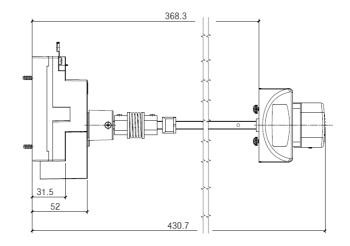








Vari-depth rotary handle



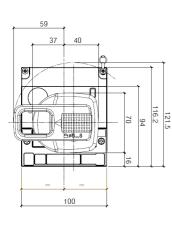
Technical sheet: F03046EN/02

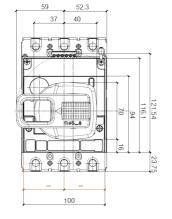
Update: 24/06/2021

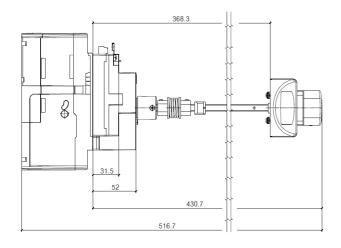
Reference(s) :

from 4 239 01 to 4 239 09; from 4 239 13 to 4 239 21; from 4 239 25 to 4 239 33; from 4 239 37 to 4 239 45; from 4 239 49 to 4 239 57; from 4 239 61 to 4 239 69; from 4 239 73 to 4 239 81; from 4 239 85 to 4 239 93;

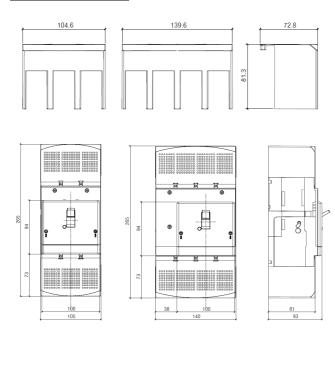
Spreaders

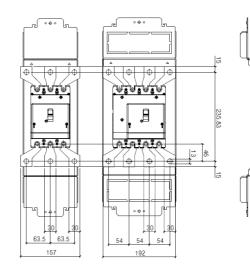




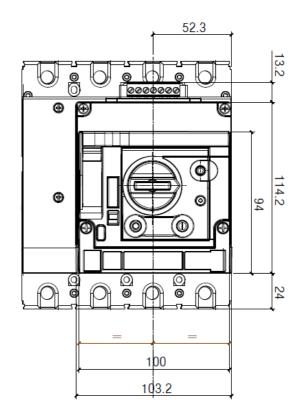


Sealable terminal shields









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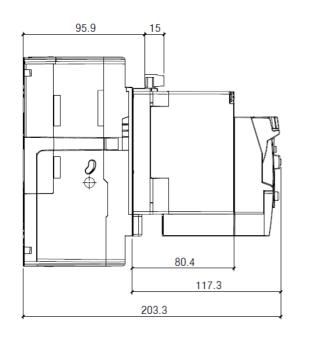
Update: 24/06/2021

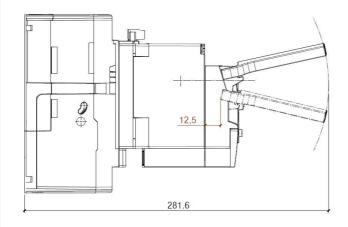
Creation: 23/11/2020

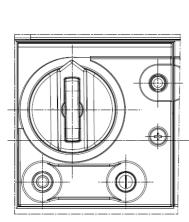
24 3.4

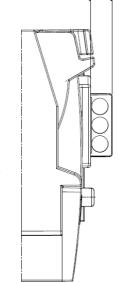
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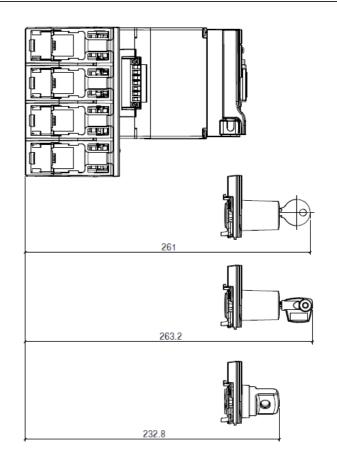
from 4 239 01 to 4 239 09; from 4 239 13 to 4 239 21; from 4 239 25 to 4 239 33; from 4 239 37 to 4 239 45; from 4 239 49 to 4 239 57; from 4 239 61 to 4 239 69; from 4 239 73 to 4 239 81; from 4 239 85 to 4 239 93;











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		
Motor operator*		1		
* to add to device weight				
** to add to douise and plug in unsights				

** 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: F03046EN/02

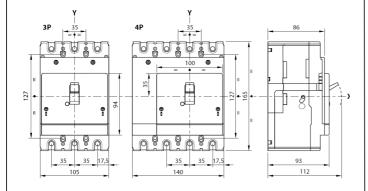
Update: 24/06/2021

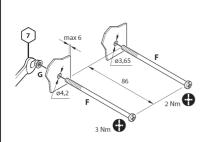
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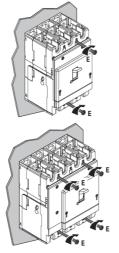
from 4 239 01 to 4 239 09; from 4 239 13 to 4 239 21; from 4 239 25 to 4 239 33; from 4 239 37 to 4 239 45; from 4 239 49 to 4 239 57; from 4 239 61 to 4 239 69; from 4 239 73 to 4 239 81; from 4 239 85 to 4 239 93;

5.2 Mounting

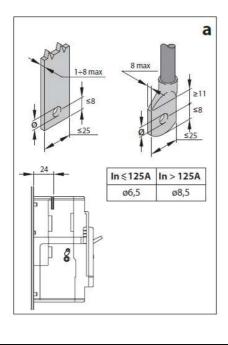
(see instruction sheet for detailed mounting procedures)

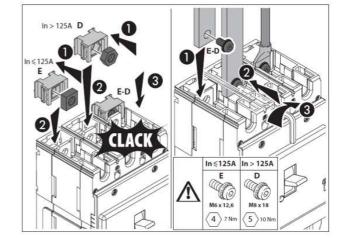


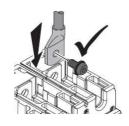




Busbars/cable lugs:

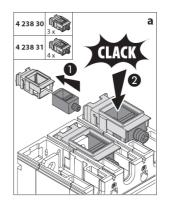


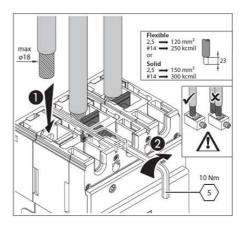






Cables:





Technical sheet: F03046EN/02

Update: 24/06/2021

Reference(s) :

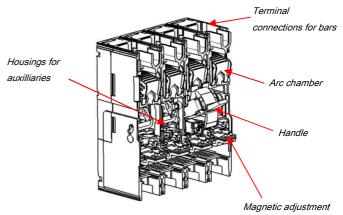
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6. ELECTRICAL AND MECHANICAL CHARACTERISTICS

Circuit breaker

Circuit Breaker	DPX ³ 250 HP F/N/H/L
	(36kA, 50kA, 70kA, 100kA)
Rated current (A)	6.3-12.5-25-32-50-80-100-160-220
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 U _{Imp} (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 I _n (cycles)	6000
Electrical endurance at 0.5 In (cycles)	6000
Utilization category	A
Suitable for isolation	Yes
Type of protection	Magnetic
Thermal adjustment I _r	-
Magnetic adjustment I _I (A)	6-14 x l _n
Neutral protection for 4P (%I _{th} of phase pole)	100
Dimensions (W x H x D) (mm)	105 x 165 x 86 (3P)
	140 x 165 x 86 (4P)

6.1 Main parts constituting the circuit breaker



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				
IEC 60947-2	500 V AC	16	18	30	35				
	690 V AC	7	8	20	22				
	250 V DC	10	10	10	10				
	I _{cs} (% I _{cu})	100	100	100	100				
	Rated making capacity under short circuit I _{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				
	magn	etic (I _i)			
I _n (A)	min	max			
6.3	37.8	88.2			
12.5	75	175			
25	150	350			
32	192	448			
50	300	700			
80	480	1120			
100	600	1400			
160	960	2240			
220	1320	3080			

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

Reference(s) :

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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 ${\sf I}_n$

Circuit breaker

		Power losses per pole (W)							
In (A)	6.3	6.3 12.5 25 32 50 80 100 160 220							
Cage terminals	1.06	0.60	2.39	3.92	0.77	1.96	3.07	7.85	14.84
Lugs	0.97	0.55	2.19	3.58	0.70	1.79	2.80	7.17	13.55
Spreaders	0.82	0.46	1.84	3.02	0.59	1.51	2.36	6.04	11.41
Rear terminals	1.00	0.56	2.26	3.70	0.72	1.85	2.89	7.39	13.98

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.

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.

					Ten	nperat	ure Ta	(°C)				
In (A)	-25	-20	-10	-5	0	10	20	30	40	50	60	70
6.3	9	9	9	8	8	8	7	7	6.3	6.3	6	5
12.5	18	18	17	17	16	15	14	13	12.5	12.5	11	11
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
50	74	72	68	66	64	61	57	54	50	50	45	43
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
160	235	229	218	212	206	195	184	172	160	160	144	136
220	323	315	299	291	284	268	252	236	220	220	198	187

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 HP

Altitude (m)	2000	3000	4000	5000
U _e (V)	690	590	520	460
I_n (A) (T _a = 40°C/50°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.

Reference(s) :

from 4 239 01 to 4 239 09; from 4 239 13 to 4 239 21; from 4 239 25 to 4 239 33; from 4 239 37 to 4 239 45; from 4 239 49 to 4 239 57; from 4 239 61 to 4 239 69; from 4 239 73 to 4 239 81; from 4 239 85 to 4 239 93;

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.

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 Icu at 415V



Product sticker label on side

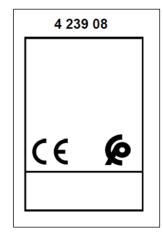
- -Manufacturer responsible
- -Denomination and type product
- -Standard conformity
- -Mark/Licence (if any)
- -Directive requirements
- -Bar code identification product

Technical sheet: F03046EN/02

-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

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	ref. 0 261 90
400 V ac	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)

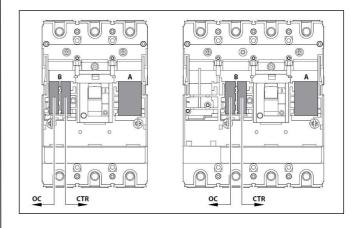
To show the state of the contacts or opening of the DPX3/DPX3 -I and DPX³ HP/DPX³-I HP on a fault:

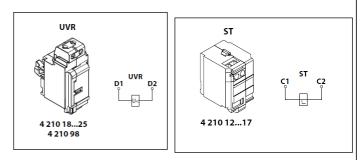
- Auxiliary contact (standard) OC 0 CTR
- Fault signal 0

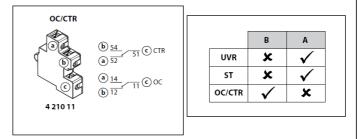
Auxiliary contact electrical characteristics						
Rated voltage (V _n) V (ac or dc) 24 to 250						
	24 V dc	5				
	48 V dc	1.7				
	110 V dc	0.5				
Intensity (A)	230 V dc	0.25				
	110 V ac	4				
	230/250 V ac	3				

Configurations:

DPX3 250 HP \rightarrow 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
- 1 lock + 1 star key with random mapping ref. 4 238 83

.

8.3 Rotary handles

Direct on DPX ³ (with auxiliary option)	
 Standard (black) 	ref. 4 238 00
 For emergency use (red / yellow) 	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)

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

8.4 Motor operators

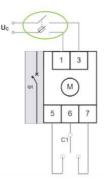
For synchronized operations (energy storage type):

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

Technical parameters:

Veltere	Drenertu	A	C	DC		
Voltage	Property	Opening	Closing	Opening	Closing	
	Maximum inrush power (VA)	75	430	55	320	
24V ac/dc	Rated power (VA)	45	-	20	-	
24V at/ut	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	-	
48V 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	-	-	
1101/00	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	-	-	
230V ac	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 4 239 01 to 4 239 09; from 4 239 13 to 4 239 21; from 4 239 25 to 4 239 33; from 4 239 37 to 4 239 45; from 4 239 49 to 4 239 57; from 4 239 61 to 4 239 69; from 4 239 73 to 4 239 81; from 4 239 85 to 4 239 93;

8.6 Mechanical accessories

•	Padlock (for locking in "OPEN" position)	ref. 4 210 49
	(ref. 4 210 49 is compatible with DPX ³ 125 HP and	DPX3 160/250)

•		nal shields: Set of 2 (for 3P) Set of 3 (for 4P)	ref. 4 238 23 ref. 4 238 24
•	0	ls: Set of 2 (for 3P) Set of 3 (for 4P) 5 are compatible with DPX ³	ref. 4 238 34 ref. 4 238 35 125 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

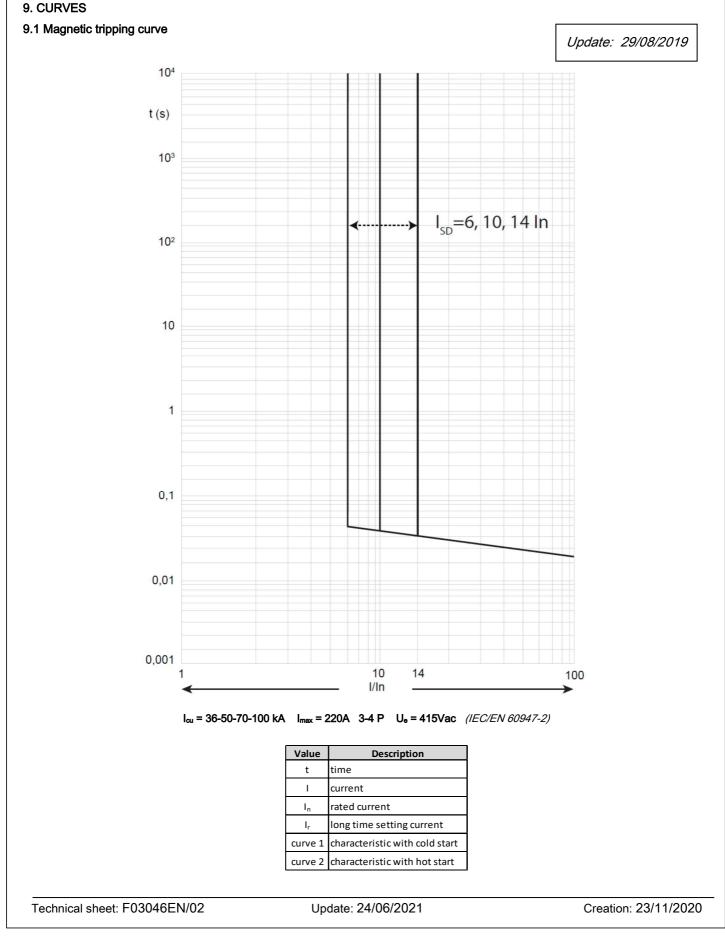
Rear terminals (incoming or outcoming):)

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

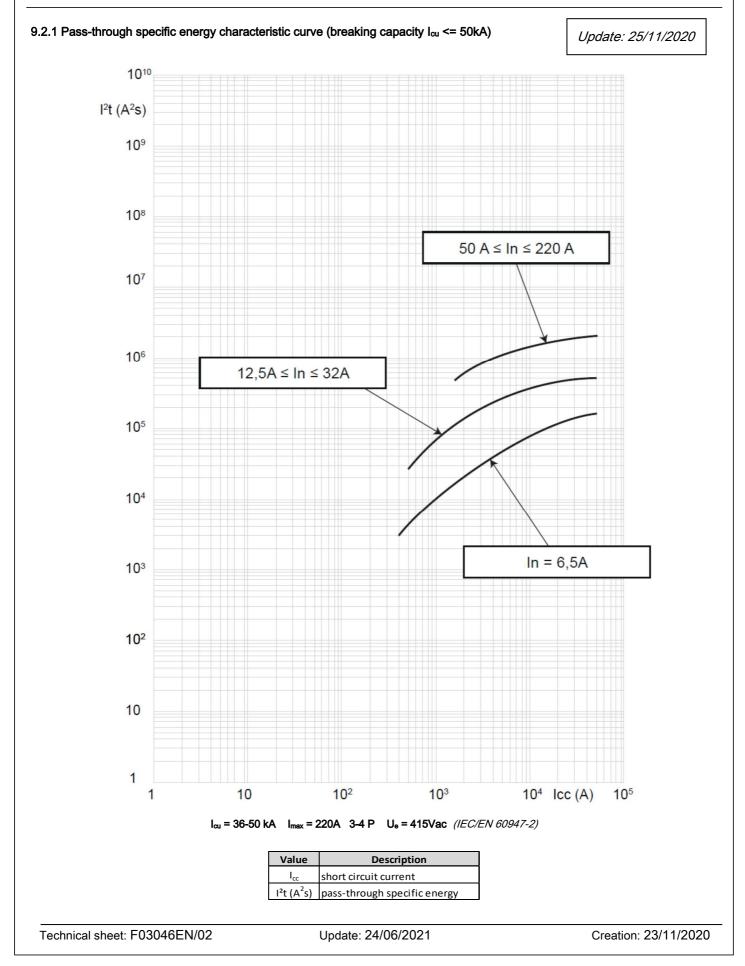
 Set of 4 (for 4P)
 ref. 4 238 22

DPX ³ 250 HP only magnetic ci breakers	rcuit	Reference(s) : from 4 239 01 to 4 239 09; from 4 239 13 to 4 239 21; from 4 239 25 to 4 239 33; from 4 239 37 to 4 239 45; from 4 239 49 to 4 239 57; from 4 239 61 to 4 239 69; from 4 239 73 to 4 239 81; from 4 239 85 to 4 239 93;				
8.8 Plug-in version (A plug-in is a DPX ³ 250 HP fitted with special term on a plug-in base)	ninals and mounted	 8.9 Draw-out version (A DPX³ 250 HP draw-out version is a plug-in DPX³ 250 HP fitted with "Debro-lift" mechanism which can be used to withdraw the breaker whil keeping it on its base) 				
Bases (for plug-in and draw-out versions for DPX ³ 250 HP a	and DPX³-I 250 HP)	"Debro-liff" mechanism (supplied with a rigid slide and handle for drawing-out)				
 Plug-in/draw-out base for 3P Plug-in/draw-out base for 4P Plug-in/draw-out mobile part kit for 3P Plug-in/draw-out mobile part kit for 4P 	ref. 4 238 50 ref. 4 238 51 ref. 4 238 52 ref. 4 238 53	 transformation kit for 3P transformation kit for 4P 	ref. 4 238 60 ref. 4 238 61			
Plug-in accessories	101. 1 200 00	Fontal masks for draw-out version (to provide in addition to debro-lift mechanism accordi mounted)	ing to accessory			
Locking accessory (for plug-in)Key lock accessory for plug-in	ref. 4 238 63	 Frontal module, with frontal mask (3P and 4P) (if neither motor operator nor rotary handle are mou Frontal mask for motor operator (3P and 4P) 	<i>ref. 4 238 55</i> inted) <i>ref. 4 238 56</i>			
Ref. 4 238 63 must be used with universal keylocks locking kit for plug-in version	to get the complete	Locking accessory (for draw-out)				
		Padlock for draw-out positionKey lock accessory for draw-out	ref. 4 238 64 ref. 4 238 62			
		Ref. 4 238 62 must be used with universal keylocks to g locking kit for draw-out version	get the complete			
		 Auxiliary contacts Automatic auxiliary contacts for draw-out version 6 contact connector (under sliding contacts) (Ref. 0 098 19 can be used with both plug-in and draw- 	ref. 4 222 30 ref. 0 098 19 out version)			
		8.10 Interlock mechanism (for interlocking 2 DPX ³ 125 HP or 2 DPX ³ 250 HP brea No frame mixing in interlock mechanism	akers)			
		 Interlock mechanism – standard version (for fixed version DPX³ 125 HP and DPX³ 250 HP) 	ref. 4 238 27			
		Interlock mechanism – for electronic module (for fixed version DPX ³ 125 HP and DPX ³ 250 HP)	ref. 4 238 28			
		Interlock plate for DPX ³ 250 HP	ref. 4 238 26			
		 Rear interlock mechanism (for DPX³ 250 HP plug-in and/or draw-out version) If used ref. 0 098 19, maximum 1 set 	ref. 4 238 29			

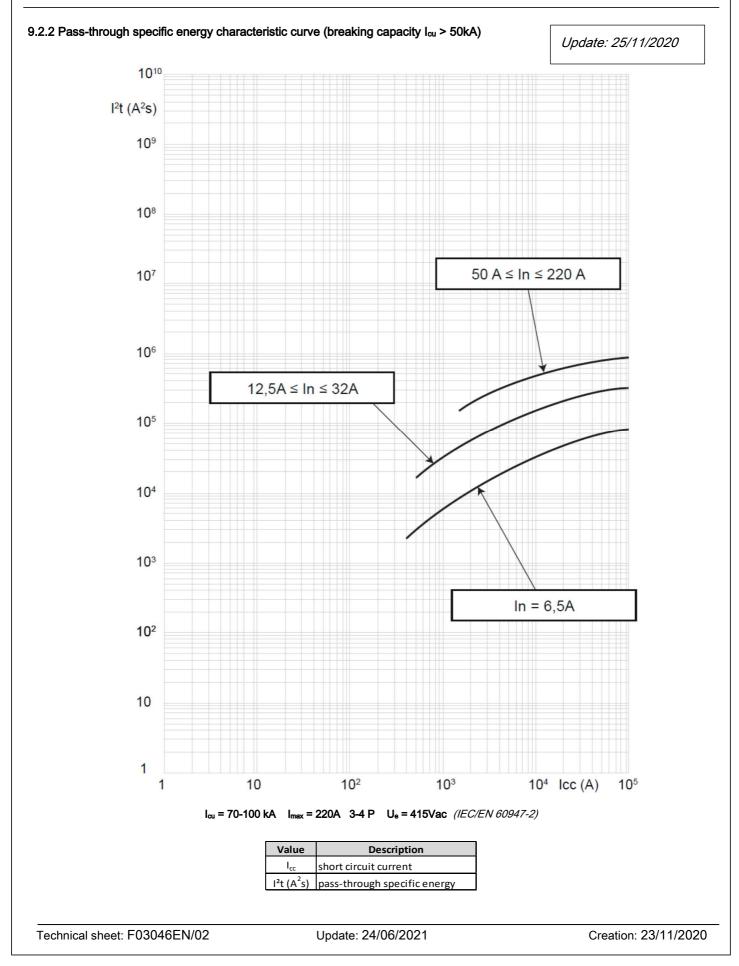
Reference(s) :



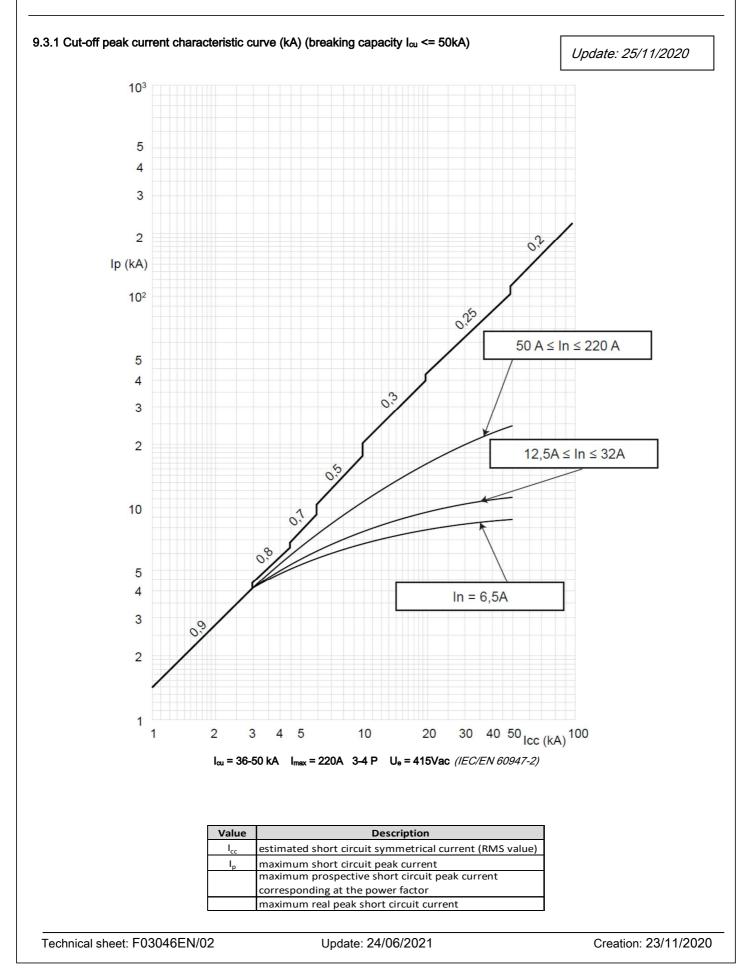
Reference(s) :



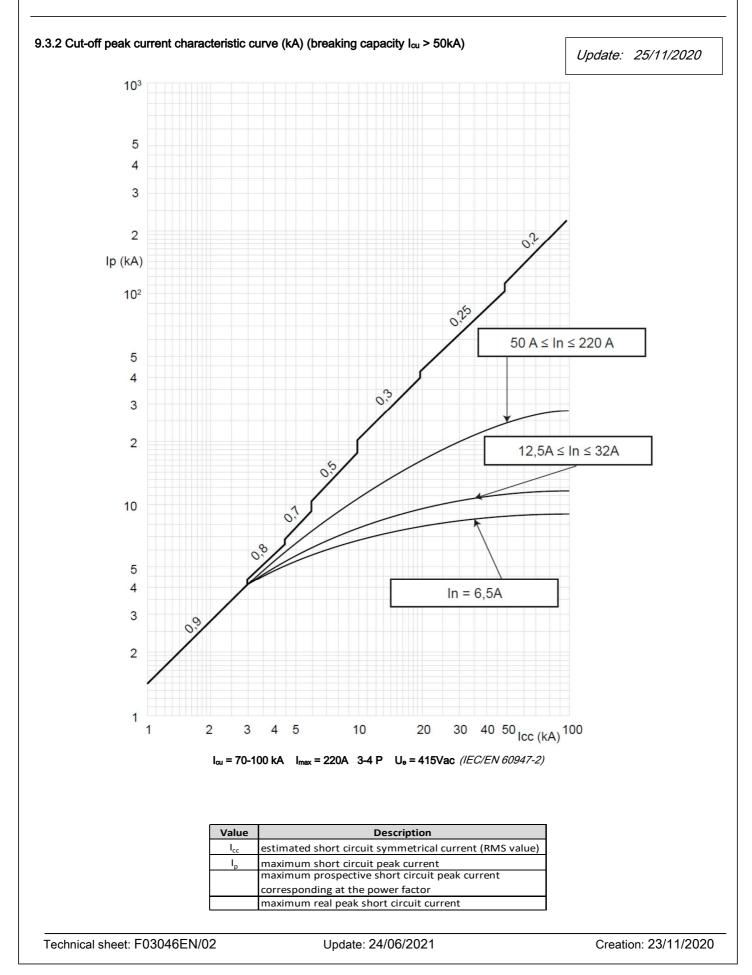
Reference(s) :



Reference(s) :



Reference(s) :



Reference(s) :

from 4 239 01 to 4 239 09; from 4 239 13 to 4 239 21; from 4 239 25 to 4 239 33; from 4 239 37 to 4 239 45; from 4 239 49 to 4 239 57; from 4 239 61 to 4 239 69; from 4 239 73 to 4 239 81; from 4 239 85 to 4 239 93;

A) Derating Temperature and configurations

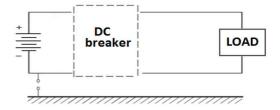
		Ambient temperature								
	30	°C	40	°C	50	°C	60 °C		70 °C	
Fixed version	I _{max} (A)	I, / In	I _{max} (A)	I _r / I _n	I _{max} (A)	Ir / In	I _{max} (A)	I _r / I _n	I _{max} (A)	Ir / In
Cage terminals, flexible cable	220	1	220	1	220	1	198	0.90	187	0.85
Lugs, flexible cable	220	1	220	1	220	1	209	0.95	198	0.90
Spreaders, flexible cable	220	1	220	1	220	1	209	0.95	198	0.90
Plug-in/draw-out version	I _{max} (A)	I, / 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	220	1	198	0.90	198	0.90	187	0.85	165	0.75
Rear flat terminals, flexible cable	-	-	-	-	-	-	-	-	-	-
Rear flat terminals. Cu bars. vertical	-	-	-	-	-	-	-	-	-	-

For further technical information, please contact Legrand technical support.

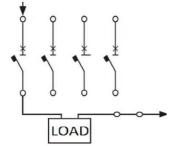
B) Breaking capacity in DC (kA)

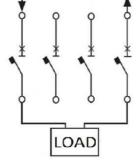
		1 pole *	2 poles in series *			3 poles in series *		
I _{cu} (kA)	I _n (A)	60 V	60 V	110 V	250 V	110 V	250 V	500 V
36	6.3 ÷ 220	35	36	35	10	36	10	10
50	6.3 ÷ 220	35	50	35	10	50	10	10
70	6.3 ÷ 220	35	50	35	10	50	10	10
100	6.3 ÷ 220	35	50	35	10	50	10	10

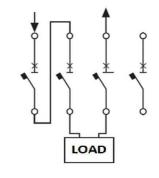
These values are applied to DC networks insulated from the ground (*this diagram applies to both 3P and 4P circuit breakers*):



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







3 poles in series

1 pole

2 poles in series

Technical sheet: F03046EN/02