La legrand®

DPX³ 250 HP S1 electronic (no display) circuit breakers



87045 LIMOGES Cedex

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

Reference(s) :

from 4 232 00 to 4 232 03; from 4 232 05 to 4 232 08; from 4 232 20 to 4 232 23; from 4 232 25 to 4 232 28; from 4 232 40 to 4 232 43; from 4 232 45 to 4 232 48; from 4 232 50 to 4 232 53; from 4 232 55 to 4 232 58;

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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

2. RANGE

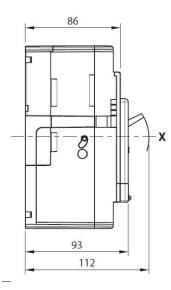
at a competitive costs.

In (A)	DPX ³ 250 HP electronic (no display) version				
	36 kA		50 kA		
	3P	4P	3P	4P	
40	423200	423205	423220	423225	
100	423201	423206	423221	423226	
160	423202	423207	423222	423227	
250	423203	423208	423223	423228	
	70	kA	100 kA		
	3P	4P	3P	4P	
40	423240	423245	423250	423255	
100	423241	423246	423251	423256	
160	423242	423247	423252	423257	
250	423243	423248	423253	423258	

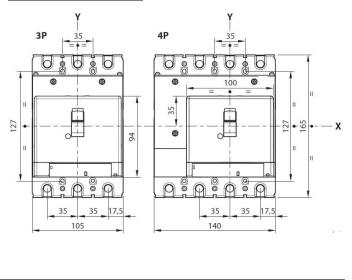
3. DIMENSIONS AND WEIGHTS

3.1 Dimensions

Lateral view



Frontal view (3 and 4 poles)



34.8 35 34.8

(F)

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35 35

17.3

16.5

92.5

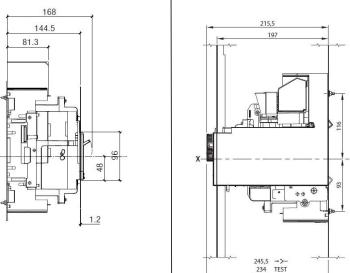
17.3

비

Reference(s) :

from 4 232 00 to 4 232 03; from 4 232 05 to 4 232 08; from 4 232 20 to 4 232 23; from 4 232 25 to 4 232 28; from 4 232 40 to 4 232 43; from 4 232 45 to 4 232 48; from 4 232 50 to 4 232 53; from 4 232 55 to 4 232 58;

Draw-out version (4P)



Plug-in version (4P)

Plug-in version (3P)

136 125.5

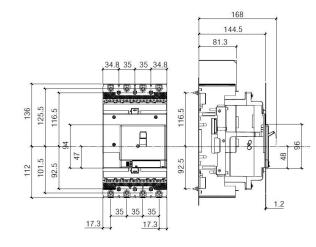
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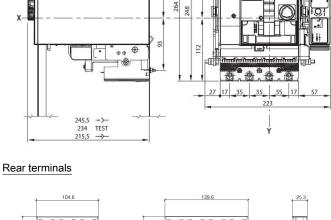
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16.5

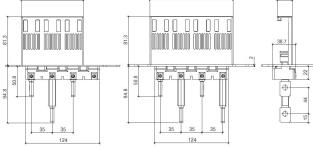
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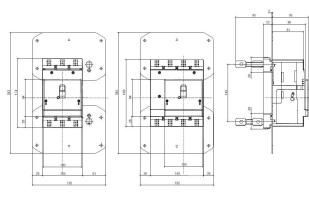
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136



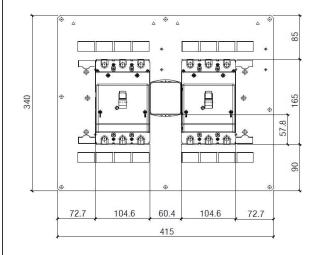


Reference(s) :

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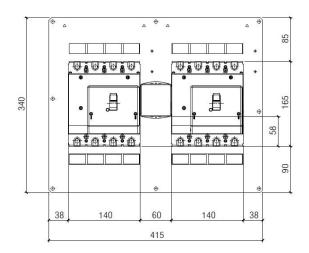
Interlock (3P)

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

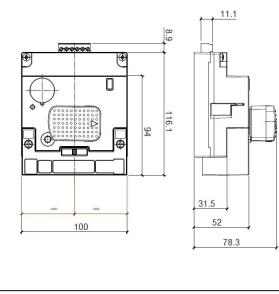


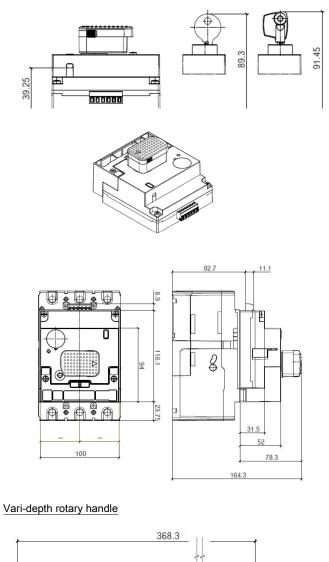
Interlock (4P)

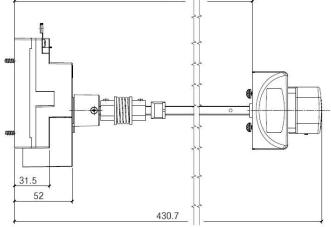
(for rear plate interlock dimension, see relative instruction sheet)



Direct rotary handle





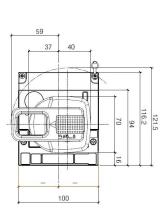


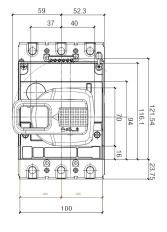
Technical sheet: F03044EN/00

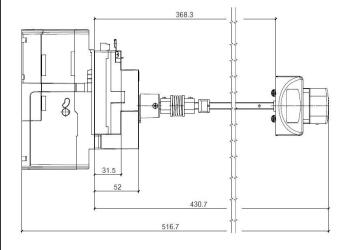
Update: 21/10/2019

Reference(s) :

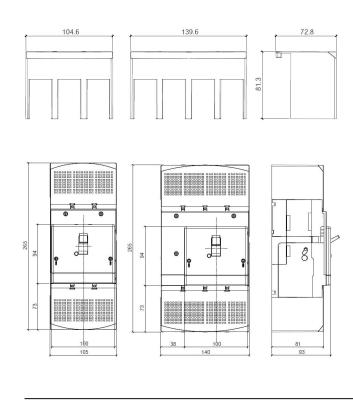
from 4 232 00 to 4 232 03; from 4 232 05 to 4 232 08; from 4 232 20 to 4 232 23; from 4 232 25 to 4 232 28; from 4 232 40 to 4 232 43; from 4 232 45 to 4 232 48; from 4 232 50 to 4 232 53; from 4 232 55 to 4 232 58;



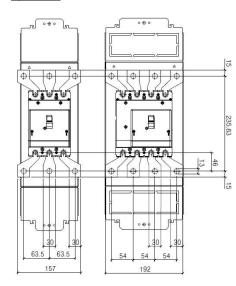


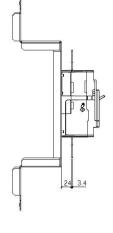


Sealable terminal shields

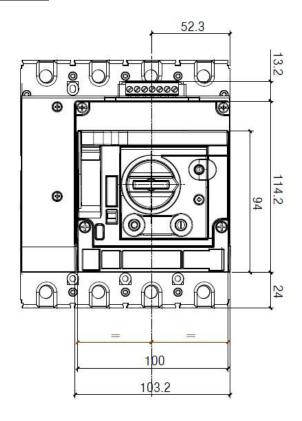


Spreaders





Motor operator

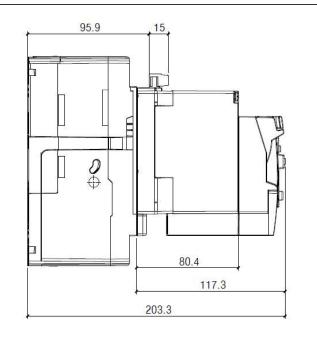


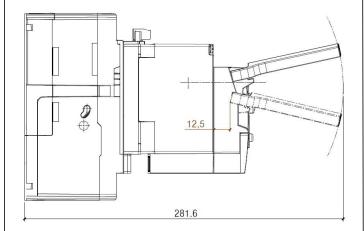
Technical sheet: F03044EN/00

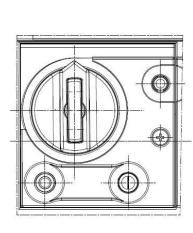
Update: 21/10/2019

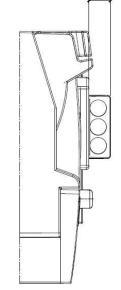
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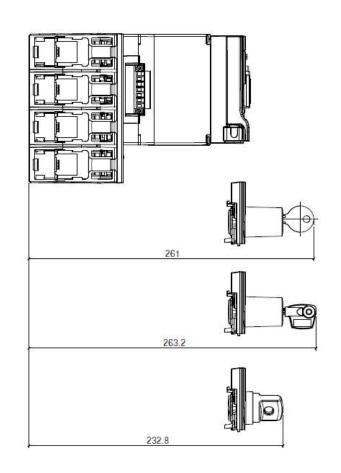
from 4 232 00 to 4 232 03; from 4 232 05 to 4 232 08; from 4 232 20 to 4 232 23; from 4 232 25 to 4 232 28; from 4 232 40 to 4 232 43; from 4 232 45 to 4 232 48; from 4 232 50 to 4 232 53; from 4 232 55 to 4 232 58;











3.2 Weights

	Weigh	ts (Kg)
Configuration	3P	4P
Circuit breaker	1.6	2.5
Plug-in*	3.5	4.5
Draw-out**	2	.5
Interlock*	0.	35
Rear interlock (for plug-in/draw-out version)*	<u>,</u>	5
Motor operator*	:	L
* to add to device weight		

* 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:

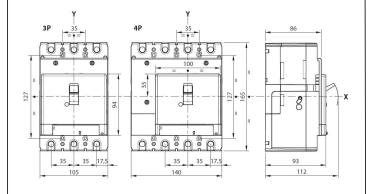
- Vertical
- Horizontal
- Supply invertor type

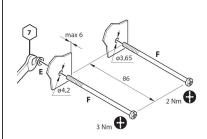
Reference(s) :

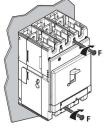
from 4 232 00 to 4 232 03; from 4 232 05 to 4 232 08; from 4 232 20 to 4 232 23; from 4 232 25 to 4 232 28; from 4 232 40 to 4 232 43; from 4 232 45 to 4 232 48; from 4 232 50 to 4 232 53; from 4 232 55 to 4 232 58;

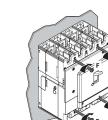
5.2 Mounting

(see instruction sheet for detailed mounting procedures)

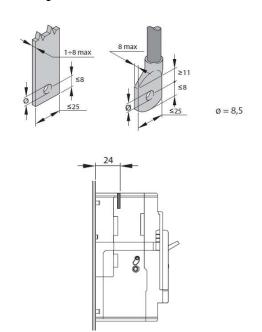


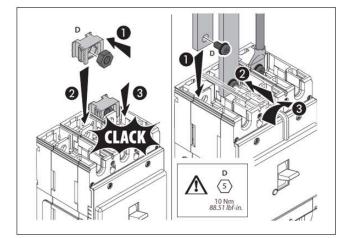


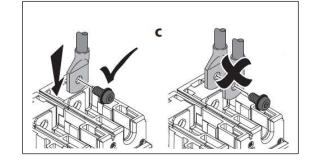




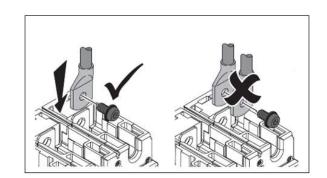
Busbars/cable lugs:







Cables:



Technical sheet: F03044EN/00

Update: 21/10/2019

Reference(s) :

from 4 232 00 to 4 232 03; from 4 232 05 to 4 232 08; from 4 232 20 to 4 232 23; from 4 232 25 to 4 232 28; from 4 232 40 to 4 232 43; from 4 232 45 to 4 232 48; from 4 232 50 to 4 232 53; from 4 232 55 to 4 232 58;

6. ELECTRICAL AND MECHANICAL CHARACTERISTICS

Circuit Breaker	DPX ³ 250 HP F/N/H/L (36kA, 50kA, 70kA, 100kA)
Rated current (A)	40-100-160-250
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 U _{Imp} (kV)	8
Rated 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
Utilization category	A
Suitable for isolation	Yes
Type of protection	Electronic (with knobs)
Thermal adjustment I,	(0.4+1) x l _n
Magnetic adjustment led ^(**)	(1,5÷10) x ŀ
Neutral protection for 4P (%Ith of phase pole)	0FF-50 ^(*) -100
Dimensions (W x H x D) (mm)	105 x 165 x 86 (3P)
	140 x 165 x 86 (4P)

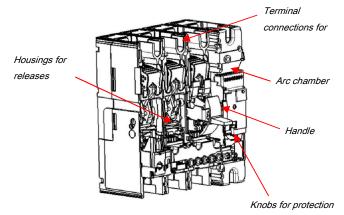
(*) if I_n =40A, then 50% regulation is allowed only if $I_r \geq 0.8$

(**) Regulations not adjustable:

- t_r=5s
- t_{sd}=0.1s
- *li=3250A*

When $l_r < 0.8$, knob setting marked with 50% equals to a 100% value.

6.1 Main parts constituting the circuit breaker



unit regulations

6.2 Breaking capacity (kA)

		Breaking capacity (kA) & I _{cs}		l _{cs}		
		3P-4P				
	U _e /I _{cu} (I _{cu} letter)	36kA (F)	50kA (N)	70kA (H)	100kA (L)	
	220/240 V AC	70	90	100	150	
	380/415 V AC	36	50	70	100	
	440/460 V AC	25	30	40	50	
IEC 60947-2	480/500 V AC	16	18	30	35	
TEC 60947-2	550 V AC	10	12	22	25	
	690V AC	7	8	20	22	
	I _{cs} (% I _{cu})	100	100	100	100	
	Rated m	ated making capacity under short circuit I _{cm}				
	I _{cm} (kA) at 415V	76.5	105	154	220	
	220/240 V AC	70	90	100	150	
NEMA AB-1	480/500 V AC	16	18	30	35	
	690 V AC	7	8	20	22	

6.3 Rated current (In)

	Phases limit trip current				
	thermal (I _r)		magne	etic (I _{sd})	
I _n (A)	0.4 x I _n 1 x I _n		min	max	
40	16	16 40 40 100	60	400	
100	40		150	1000	
160	64	160	240	1600	
250	100	250	375	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)			(W)
In (A)	40	100	160	250
Cage terminals	0.49	3.07	7.85	19.20
Lugs	0.45	2.80	7.17	17.50
Spreaders	0.38	2.36	6.04	14.70
Rear terminals	0.46	2.89	7.39	18.10

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.

Reference(s) :

from 4 232 00 to 4 232 03; from 4 232 05 to 4 232 08; from 4 232 20 to 4 232 23; from 4 232 25 to 4 232 28; from 4 232 40 to 4 232 43; from 4 232 45 to 4 232 48; from 4 232 50 to 4 232 53; from 4 232 55 to 4 232 58;

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)					
I _n (A)	40 50 60 7					
40	40	40	40	40		
100	100	100 100		95		
160	160	160	160	155		
250	250	250	210	190		

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

Altitude (m)	2000	3000	4000	5000
U _e (V)	690	590	520	460
I _n (A)	1 x I _n	0.98 x I _n	0.93 x I _n	0.9 x I _n

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 CBscheme or LOVAG Compliance scheme.

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

For specific information, please contact Legrand support.

7.1 Marking

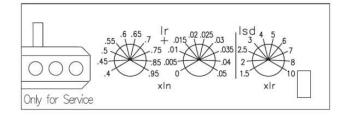
Product (circuit breakers) are provided with labelling in full conformity to the referred standard and directives requirements by laser or sticker labels (for illustrative purposes only) as:

Product laser label on front

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



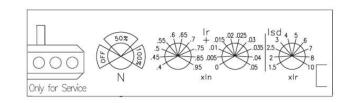
Electronic release label (3P version)



Reference(s) :

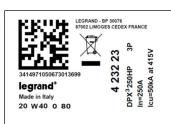
from 4 232 00 to 4 232 03; from 4 232 05 to 4 232 08; from 4 232 20 to 4 232 23; from 4 232 25 to 4 232 28; from 4 232 40 to 4 232 43; from 4 232 45 to 4 232 48; from 4 232 50 to 4 232 53; from 4 232 55 to 4 232 58;

Electronic release label (4P version)



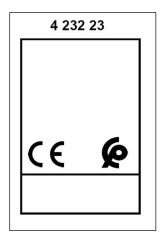
Product sticker label on side

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



Technical sheet: F03044EN/00

Reference(s) :

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> UVR D2

D1

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	

Maximum power = 4 VA Circuit breaker opening time < 50 ms

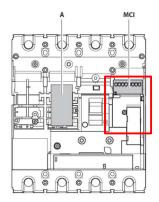
UVR releases can be used on DPX3 125/250 HP starting from batch 19W15

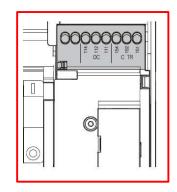
 time-lag undervoltage releases (800 ms) <i>Time-lag modules with voltage:</i> 230 V ac 	ref. 0 261 90
400 V ac	ref. 0 261 91
Release	ref. 4 210 98

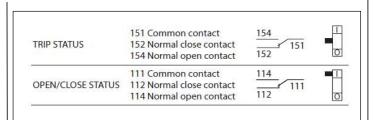
(to be equipped with a time-lag module 0 261 90/91)

8.2 Auxiliary contacts

For version of DPX³ 250 HP electronic version, auxiliary contacts are integrated inside module M.C.I (see instruction sheet for details). Here a connection scheme to get auxiliary functionality:







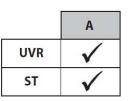


4 210 18...25

4 210 98



4 210 12...17



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

8.4 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

8.5 Motor operators

For synchronized operations (energy storage type):

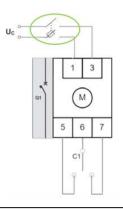
٠	24 Vac and dc	ref. 4 238 40
٠	48 Vac and dc	ref. 4 238 41
•	110 Vac	ref. 4 238 42
٠	230 Vac	ref. 4 238 43

Technical parameters:

Valesas	Ducator	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 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	-	-	
230V ac	Rated power (VA)	70	-	-	-	
250V 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 4 232 00 to 4 232 03; from 4 232 05 to 4 232 08; from 4 232 20 to 4 232 23; from 4 232 25 to 4 232 28; from 4 232 40 to 4 232 43; from 4 232 45 to 4 232 48; from 4 232 50 to 4 232 53; from 4 232 55 to 4 232 58;

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: o Set of 2 (for o Set of 3 (for	or 3P) ref. 4 23	
•	Insulated shields: o Set of 2 (for o Set of 3 (for (ref. 4 238 34/35 are compa		

8.7 Connection accessories

Cage terminals

• Set of 3 terminals for cables 150 mm ² max (solid) or 120 mm ² max (flexible) Cu/Al	ref. 4 238 30
• Set of 4 terminals for cables 150 mm ² max (rigid) or 120 mm ² max (flexible) Cu/Al	ref. 4 238 31
Spreaders (incoming or outcoming):	

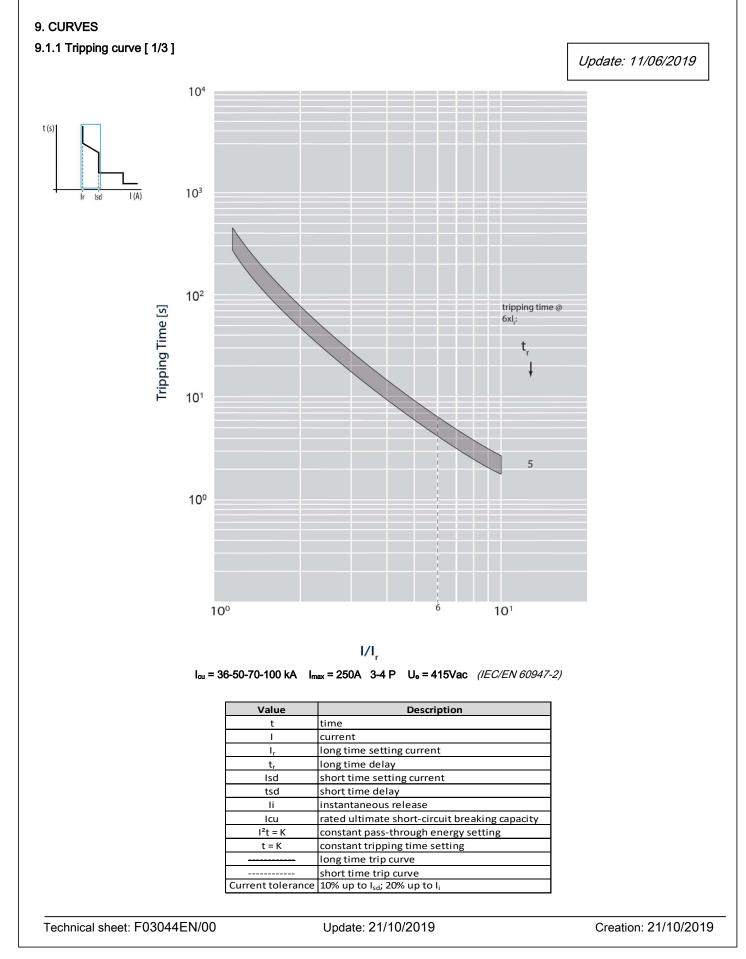
Set of 2 (for 2D)	raf 6 250 11
 Set of 3 (for 3P) 	ref. 6 250 14
• Set of 4 (for 4P)	ref. 6 250 18
Rear terminals (incoming or outcoming):	rof 1 220 21

•	Set of 3 (for 3P)	ref. 4 238 21
•	Set of 4 (for 4P)	ref. 4 238 22

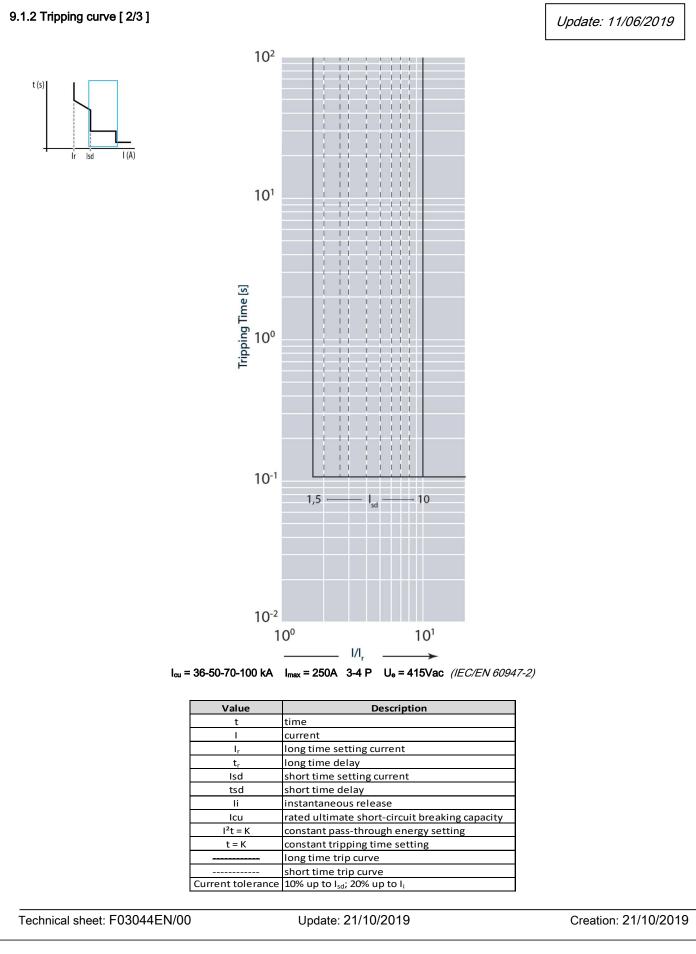
Technical sheet: F03044EN/00

DPX ³ 250 HP S1 electronic (n circuit breakers	o display)	Reference(s) : from 4 232 00 to 4 232 03; from 4 232 05 to 4 232 08; from 4 232 20 to 4 232 23; from 4 232 25 to 4 232 28; from 4 232 40 to 4 232 43; from 4 232 45 to 4 232 48; from 4 232 50 to 4 232 53; from 4 232 55 to 4 232 58;	
8.8 Plug-in version (A plug-in is a DPX ³ 250 HP fitted with special ter	minals and mounted	8.9 Draw-out version (A DPX ³ 250 HP draw-out version is a plug-in DPX ³ 250	
on a plug-in base) Bases		"Debro-lift" mechanism which can be used to withdraw t keeping it on its base)	he breaker while
(for plug-in and draw-out versions for DPX ³ 250 HF	P and DPX ³ -I 250 HP)	"Debro-lift" 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		<i>Fontal masks for draw-out version</i> (to provide in addition to debro-lift mechanism accord 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 mod Frontal mask for motor operator (3P and 4P) 	ref. 4 238 56
Ref. 4 238 63 must be used with universal keylock locking kit for plug-in version	s to get the complete	Frontal mask for rotary handle (3P and 4P) Locking accessory (for draw-out)	ref. 4 238 57
		 Padlock for draw-out position Key lock accessory for draw-out 	ref. 4 238 64 ref. 4 238 62
		Ref. 4 238 62 must be used with universal keylocks to locking kit for draw-out version	
		 Auxiliary contacts Automatic auxiliary contacts for draw-out version 6 contact connector (under sliding contacts) 	ref. 4 222 30 ref. 0 098 19
		 (Ref. 0 098 19 can be used with both plug-in and draw 8.10 Interlock mechanism (for interlocking 2 DPX³ 125 HP or 2 DPX³ 250 HP bree No frame mixing in interlock mechanism 	
		Interlock mechanism – standard version	ref. 4 238 27
		 (for fixed version DPX³ 125 HP and DPX³ 250 HP) Interlock mechanism – for electronic module (for fixed version DPX³ 125 HP and DPX³ 250 HP) 	ref. 4 238 28
		Interlock plate for DPX ³ 250 HP	ref. 4 238 26
		Rear interlock mechanism (for DPX ³ 250 HP plug-in and/or draw-out version) If used ref. 0 098 19, maximum 1 set	ref. 4 238 29

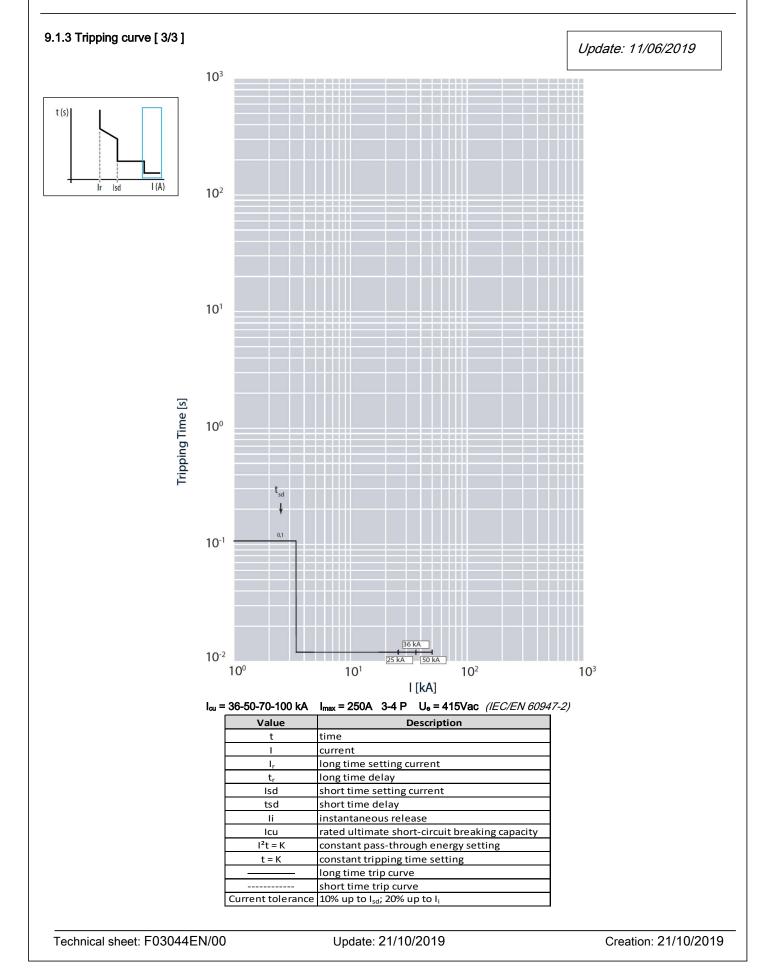
Reference(s) :



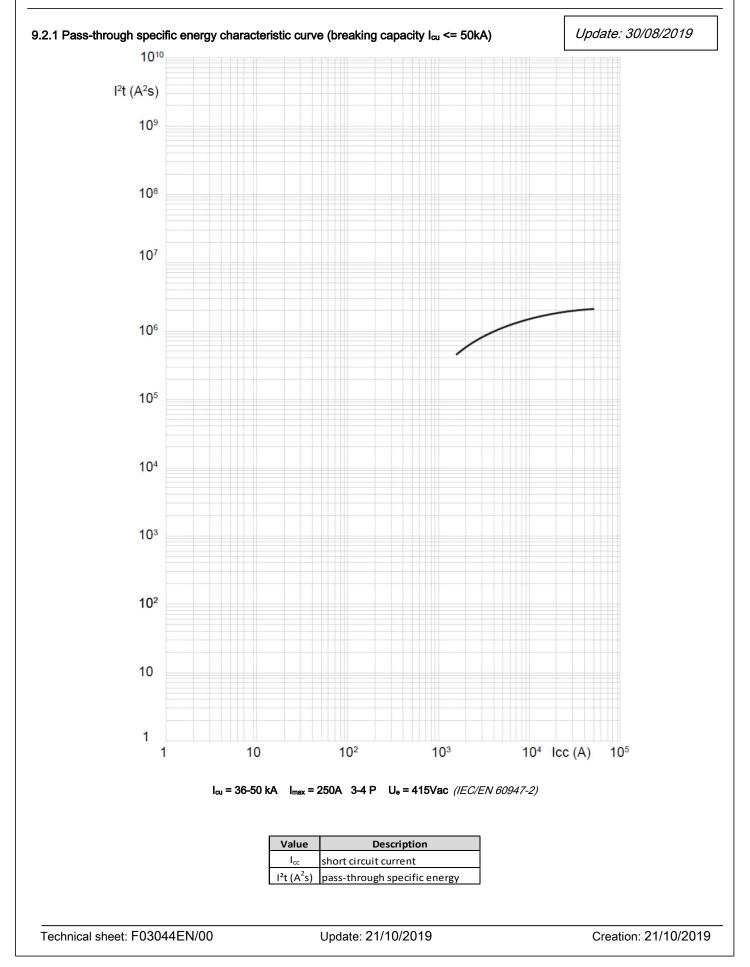
Reference(s) :



Reference(s) :

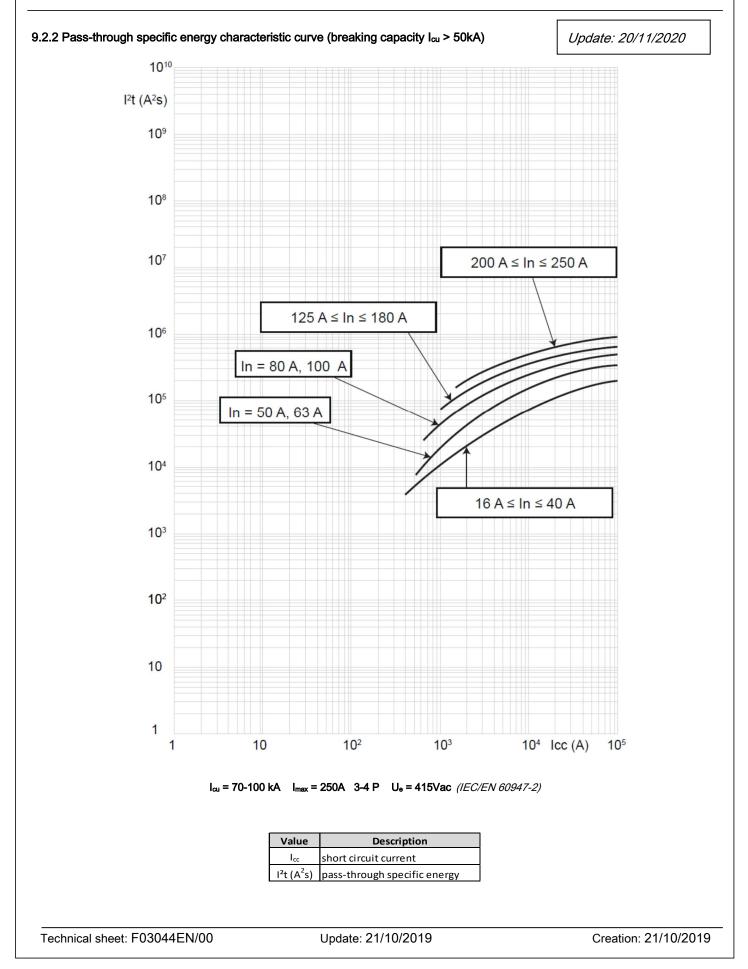


Reference(s) :

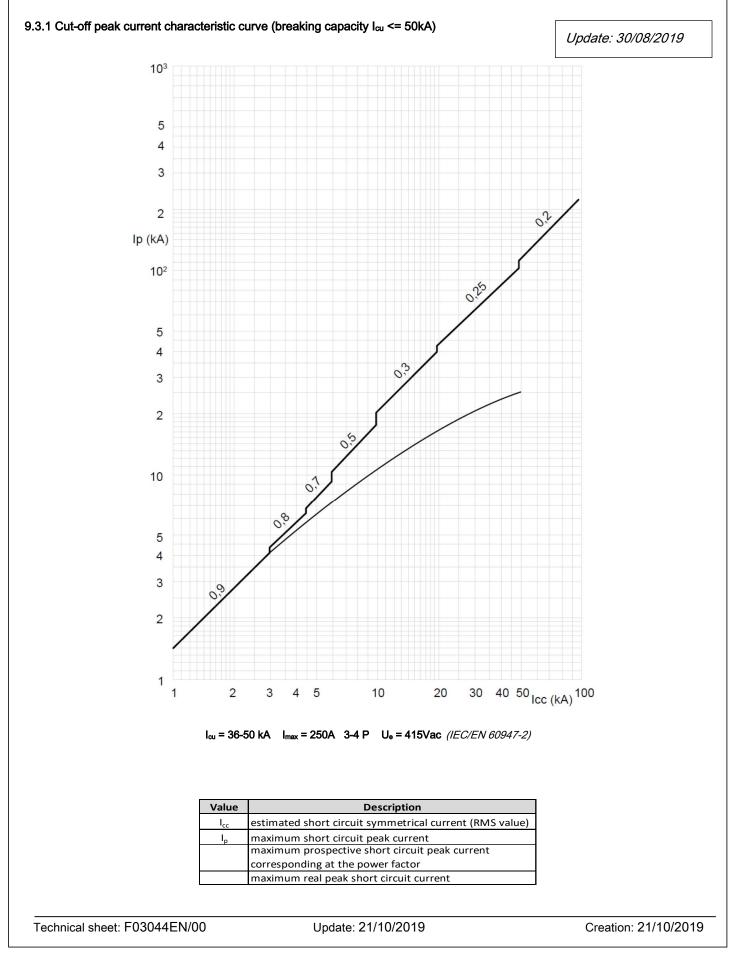


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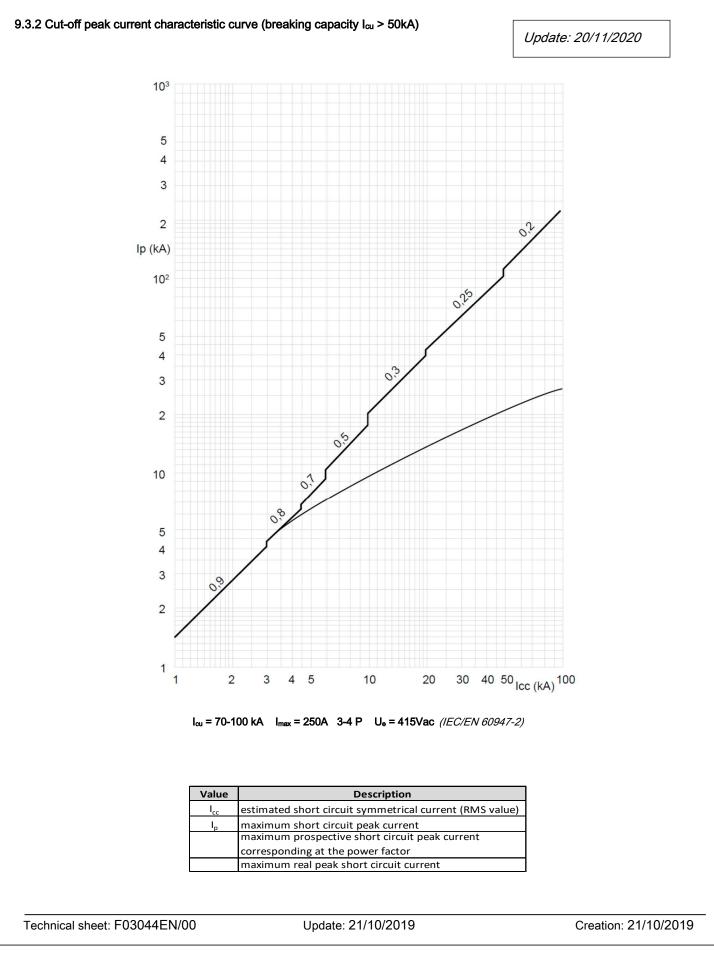
Reference(s) :



Reference(s) :



Reference(s) :



Reference(s) :

from 4 232 00 to 4 232 03; from 4 232 05 to 4 232 08; from 4 232 20 to 4 232 23; from 4 232 25 to 4 232 28; from 4 232 40 to 4 232 43; from 4 232 45 to 4 232 48; from 4 232 50 to 4 232 53; from 4 232 55 to 4 232 58;

A) Derating Temperature and configurations

		Ambient temperature									
	30	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	
Cage terminals, flexible cable	250	1	250	1	230	0.92	210	0.84	190	0.76	
Cage terminals, flexible cable + sealable terminal shields	250	1	238	0.95	200	0.80	175	0.70	175	0.70	
Lugs, flexible cable	250	1	213	0.85	200	0.80	200	0.80	150	0.60	
Spreaders, flexible cable	250	1	250	1	200	0.80	175	0.70	163	0.65	
Rear terminals, flexible cable	250	1	213	0.85	188	0.75	163	0.65	163	0.65	
Plug-in/draw-out version	I _{max} (A)	Ir / In	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	I _r / I _n	I _{max} (A)	Ir / In	
Cage terminals, flexible cable	250	1	238	0.95	238	0.95	233	0.93	225	0.90	

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For further technical information, please contact Legrand technical support.