

87045 LIMOGES Cedex

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DPX³ 250 HP S1 electronic (no display) circuit breakers

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 at a competitive costs.

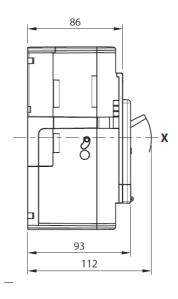
2. RANGE

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	0 423202 423207		423222	423227	
250	423203 423208		423223	423228	
	70 kA		100 kA		
	3P	4P	3P	4P	
40	423240	423245	423250	423255	
100	100 423241 423246		423251	423256	
160	160 423242 423247		423252	423257	
250	423243	423248	423253	423258	

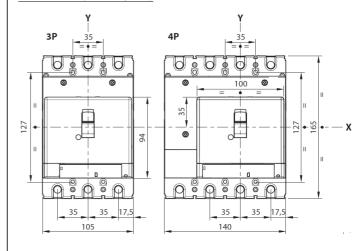
3. DIMENSIONS AND WEIGHTS

3.1 Dimensions

Lateral view



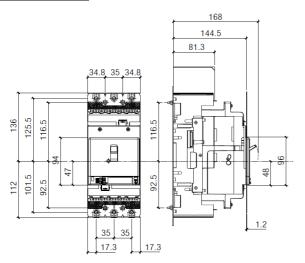
Frontal view (3 and 4 poles)



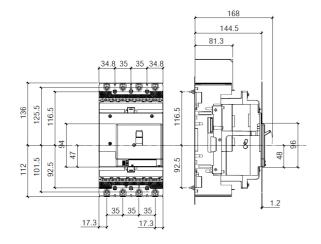
Reference(s):

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;

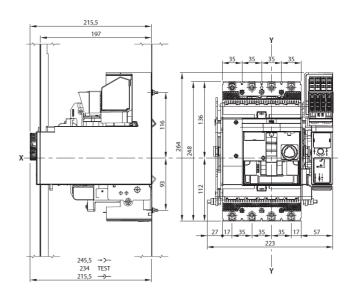
Plug-in version (3P)



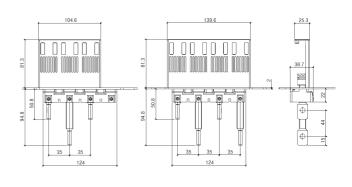
Plug-in version (4P)

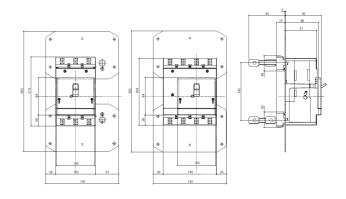


Draw-out version (4P)



Rear terminals



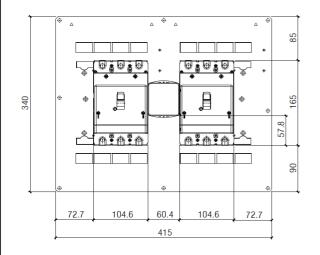


Reference(s):

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;

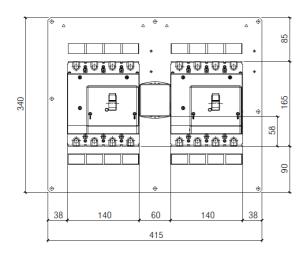
Interlock (3P)

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

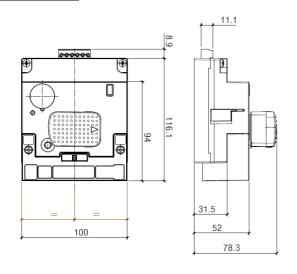


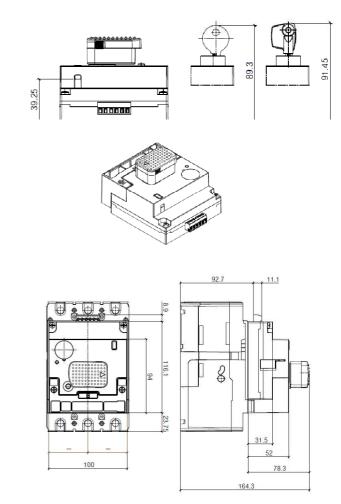
Interlock (4P)

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

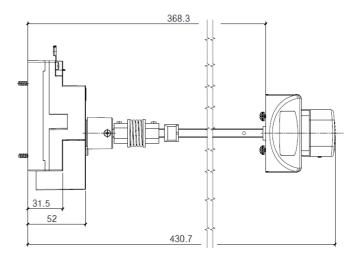


Direct rotary handle



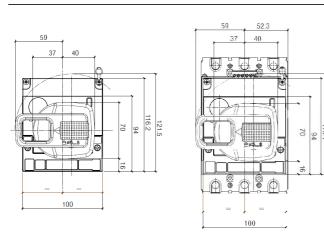


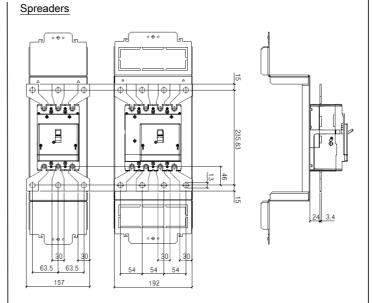
Vari-depth rotary handle

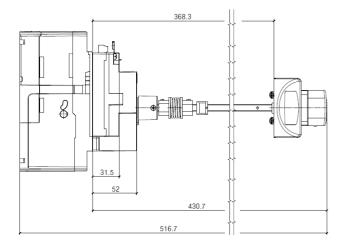


Reference(s):

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;

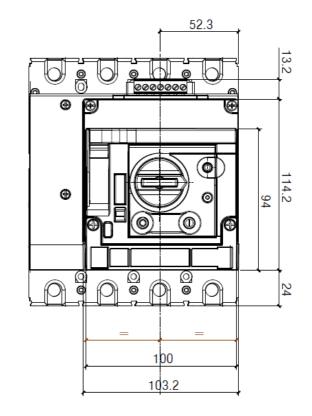


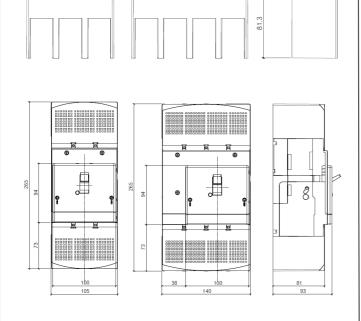




Motor operator

Sealable terminal shields

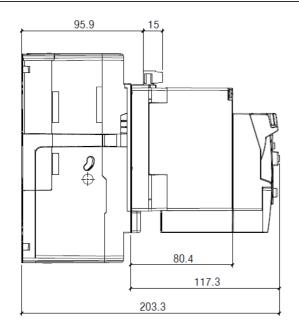


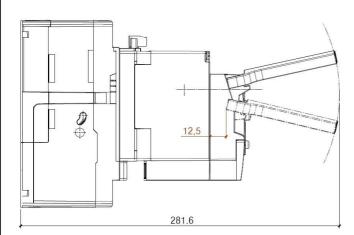


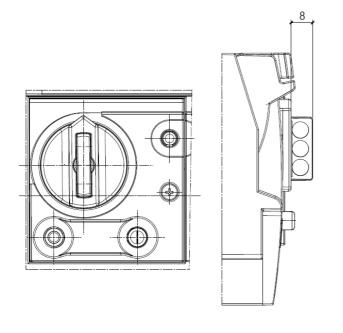
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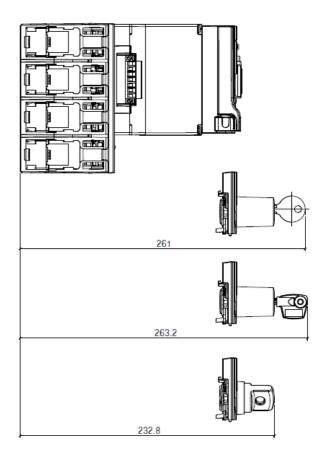
from 4 232 00 to 4 232 03; from 4 232 05 to 4 232 08; from 4 232 20 to 4 232 23; from 4 232 25 to 4 232 28; from 4 232 40 to 4 232 43; from 4 232 45 to 4 232 48;

from 4 232 50 to 4 232 53; from 4 232 55 to 4 232 58;









3.2 Weights

Weights (Kg		its (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)*		5
Motor operator*	-	1
* to add to device weight		
* to add to device and plua-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:

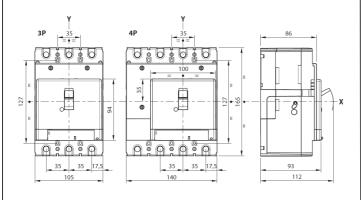
- Vertical
- Horizontal
- Supply invertor type

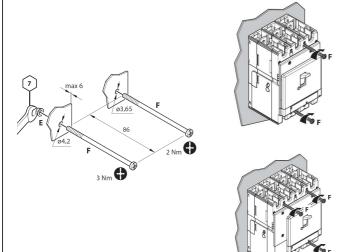
Reference(s):

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;

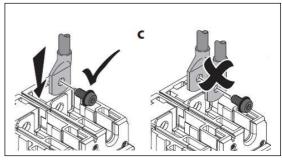
5.2 Mounting

(see instruction sheet for detailed mounting procedures)

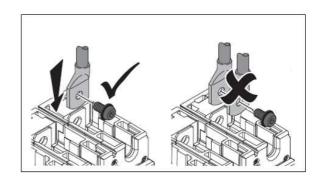




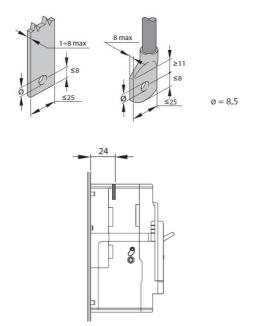
CLACK CS 10 Nm 88.51 lbl-in.



Cables:



Busbars/cable lugs:



Technical sheet: F03044EN/02

Update: 13/11/2023 Creation: 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 _r	(0.4+1) x l _n
Magnetic adjustment led (**)	(1,5+10) x Ļ
Neutral protection for 4P (%I _{th} 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 $I_r \ge 0.8$

(**) Regulations not adjustable:

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

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

General remarks on protection unit

The protection units S1 are normally supplied by the internal current transformers (CTs).

When the current flowing through the circuit breaker is greater than 12% of the maximum power (20% of In for single phase load), the internal current supply ensures all operation of the protection unit, included: LED status and diagnostic functions (e.g. trip test).

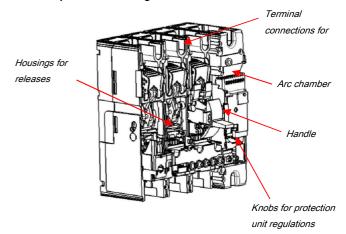
To ensure the same performance when the load is less than 12% of the maximum power (20% of In for single phase load) to grant complete functions, the following optional power supply can be used:

 power supply temporarily connected to frontal Service port, connected to specific adapter for PC (Legrand use only)

Together with above protections, activated in case of electric faults, the trip unit also integrates self-protection for:

- Over temperature: in case the internal temperature of protection unit exceed 95°C;
- Auto diagnostics: in case embedded watchdog circuit detects internal malfunctions, which could compromise the correct working of microcontroller.

6.1 Main parts constituting the circuit breaker



6.2 Breaking capacity (kA)

		Br	eaking capa	city (kA) &	I _{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
120 00947-2	550 V AC	10	12	22	25
	690V AC	7	8	20	22
	I _{cs} (% I _{cu})	100	100	100	100
	Rated m	naking 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	0.4 x I _n 1 x I _n		max
40	16	40	60	400
100	40	100	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

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;

6.4 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.

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	70
40	40 40 40 100 100 100 160 160 160		40	40
100			100	95
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

Reference(s):

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from 4 232 50 to 4 232 53; from 4 232 55 to 4 232 58;

7. CONFORMITY

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

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

For specific information, please contact Legrand support.

7.1 Marking

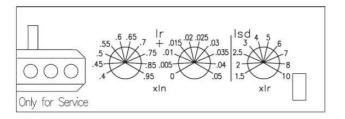
Product (circuit breakers) are provided with labelling in full conformity to the referred standard and directives requirements by laser or sticker labels (for illustrative purposes only) as:

Product laser label on front

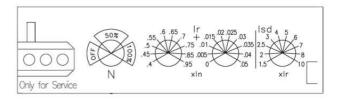
- -Manufacturer responsible
- -Denomination, type product, code
- -Standard conformity
- -Standard characteristics declared
- -Coloured identification of Icu at 415V



Electronic release label (3P version)

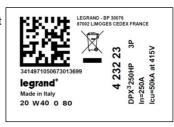


Electronic release label (4P version)



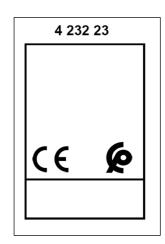
Product sticker label on side

- -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



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. 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)

Time-lag modules with voltage:

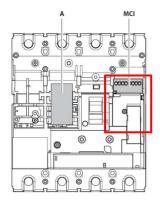
230 V ac ref. 0 261 90 400 V ac ref. 0 261 91

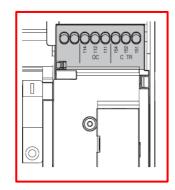
Release *ref. 4 210 98*

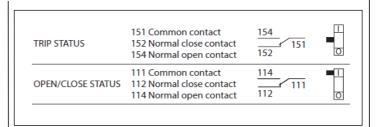
(to be equipped with a time-lag module 0 261 90/91)

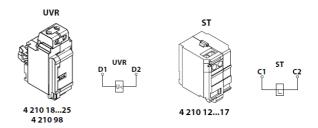
8.2 Auxiliary contacts

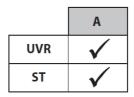
For version of DPX³ 250 HP electronic version, auxiliary contacts are integrated inside module M.C.I (see instruction sheet for details). Here a connection scheme to get auxiliary functionality:











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

Reference(s):

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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;

8.4 Rotary handles

Direct on DPX3 (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) ref. 4 238 02

ref. 4 238 03 For emergency use (red / yellow)

Locking accessories (for rotary handle with auxiliary option)

ref. 4 238 04 Key lock accessory for direct rotary handle

Key lock accessory for vari-depth rotary handle ref. 4 238 05 (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):

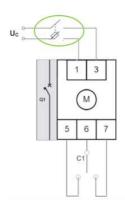
ref. 4 238 40 24 Vac and dc ref. 4 238 41 48 Vac and dc ref 4 238 42 110 Vac 230 Vac ref. 4 238 43

Technical parameters:

Voltage	Droporty	А	C	DC		
Voltage	Property	Opening	Opening Closing		Closing	
	Maximum inrush power (VA)	75	430	55	320	
24)/ /- -	Rated power (VA)	45	-	20	-	
24V ac/dc	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	1	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	-	-	
2201/	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:



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) ref. 4 238 23 0 Set of 3 (for 4P) ref. 4 238 24 0

Insulated shields:

Set of 2 (for 3P) ref. 4 238 34 0 ref. 4 238 35 Set of 3 (for 4P) (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

Technical sheet: F03044EN/02 Update: 13/11/2023 Creation: 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;

8.8 Plug-in version

(A plug-in is a DPX 3 250 HP fitted with special terminals and mounted on a plug-in base)

Bases

(for plug-in and draw-out versions for DPX3 250 HP and DPX3-I 250 HP)

•	Plug-in/draw-out base for 3P	ref. 4 238 50
•	Plug-in/draw-out base for 4P	ref. 4 238 51
•	Plug-in/draw-out mobile part kit for 3P	ref. 4 238 52
•	Plug-in/draw-out mobile part kit for 4P	ref. 4 238 53

Plug-in accessories

Locking accessory (for plug-in)

• Key lock accessory for plug-in ref. 4 238 63

Ref. 4 238 63 must be used with universal keylocks to get the complete 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)

"Debro-lift" mechanism

(supplied with a rigid slide and handle for drawing-out)

transformation kit for 3P
 transformation kit for 4P
 ref. 4 238 60
 ref. 4 238 61

Fontal masks for draw-out version

(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

Locking accessory (for draw-out)

Padlock for draw-out position ref. 4 238 64
 Key lock accessory for draw-out ref. 4 238 62

Ref. 4 238 62 must be used with universal keylocks to get the complete 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-out version)

8.10 Interlock mechanism

(for interlocking 2 DPX3 125 HP or 2 DPX3 250 HP breakers)

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 ref. 4 238 28 (for fixed version DPX³ 125 HP and DPX³ 250 HP)
- Interlock plate for DPX³ 250 HP
 ref. 4 238 26
- Rear interlock mechanism ref. 4 238 29
 (for DPX³ 250 HP plug-in and/or draw-out version)

 If used ref. 0 098 19, maximum 1 set

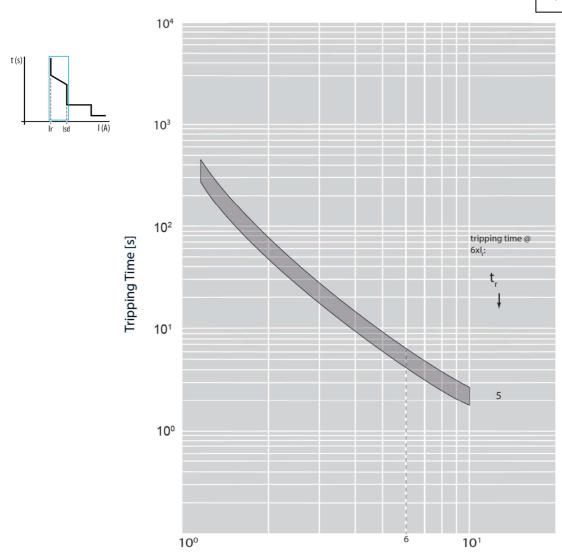
Reference(s):

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;

9. CURVES

9.1.1 Tripping curve [1/3]

Update: 11/06/2019



 I/I_r I_{cu} = 36-50-70-100 kA I_{max} = 250A 3-4 P U_e = 415Vac (IEC/EN 60947-2)

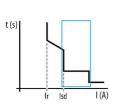
Value	Description
t	time
I	current
l _r	long time setting current
t _r	long time delay
Isd	short time setting current
tsd	short time delay
li	instantaneous release
lcu	rated ultimate short-circuit breaking capacity
I ² t = K	constant pass-through energy setting
t = K	constant tripping time setting
	long time trip curve
	short time trip curve
Current tolerance	10% up to I _{sd} ; 20% up to I _i

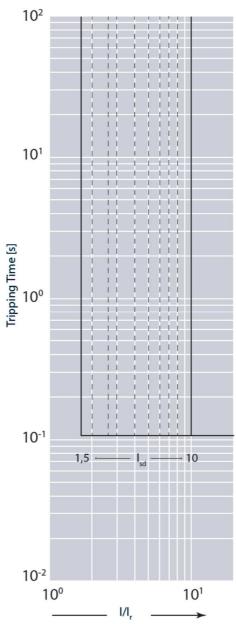
Reference(s):

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;

9.1.2 Tripping curve [2/3]

Update: 11/06/2019





 I_{cu} = 36-50-70-100 kA I_{max} = 250A 3-4 P U_{e} = 415Vac (IEC/EN 60947-2)

Value	Description
t	time
I	current
I _r	long time setting current
t _r	long time delay
Isd	short time setting current
tsd	short time delay
li	instantaneous release
lcu	rated ultimate short-circuit breaking capacity
$I^2t = K$	constant pass-through energy setting
t = K	constant tripping time setting
	long time trip curve
	short time trip curve
Current tolerance	10% up to I_{sd} ; 20% up to I_i

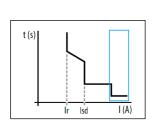
Tripping Time [s]

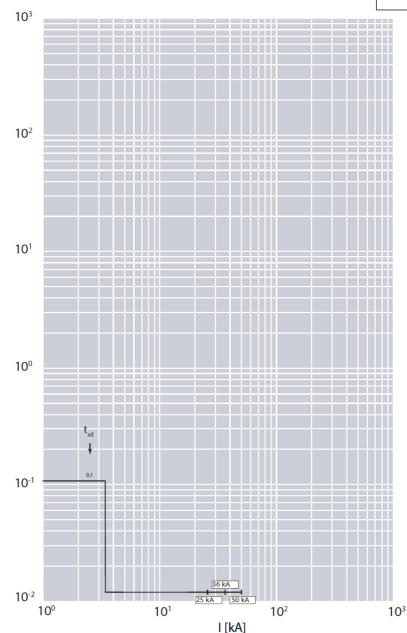
Reference(s):

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;

9.1.3 Tripping curve [3/3]

Update: 11/06/2019





 $I_{cu} = 36-50-70-100 \text{ kA}$ $I_{max} = 250 \text{A}$ 3-4 P $U_e = 415 \text{Vac}$ (IEC/EN 60947-2)

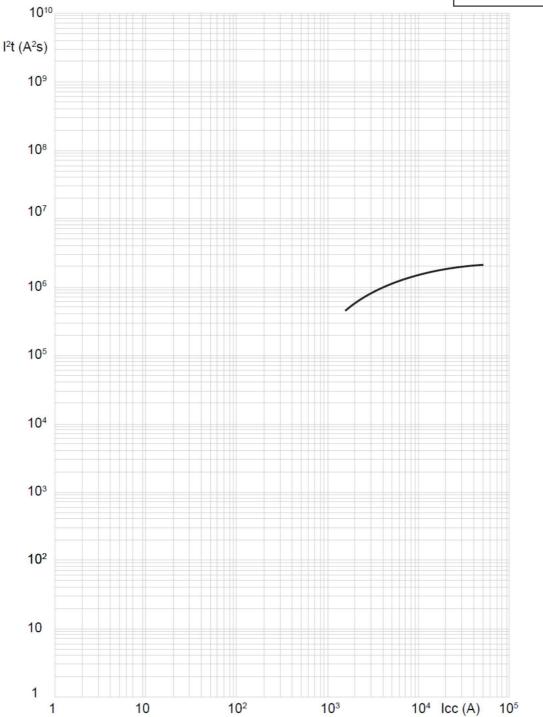
- 00 00 70 100 101	1111 2007 0 41 0g 410 Vac (120/21 V 0004
Value	Description
t	time
I	current
l _r	long time setting current
t _r	long time delay
Isd	short time setting current
tsd	short time delay
li	instantaneous release
lcu	rated ultimate short-circuit breaking capacity
$I^2t = K$	constant pass-through energy setting
t = K	constant tripping time setting
	long time trip curve
	short time trip curve
Current tolerance	10% up to I _{sd} ; 20% up to I _i

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;



Update: 30/08/2019



 I_{cu} = 36-50 kA I_{max} = 250A 3-4 P U_{e} = 415Vac (IEC/EN 60947-2)

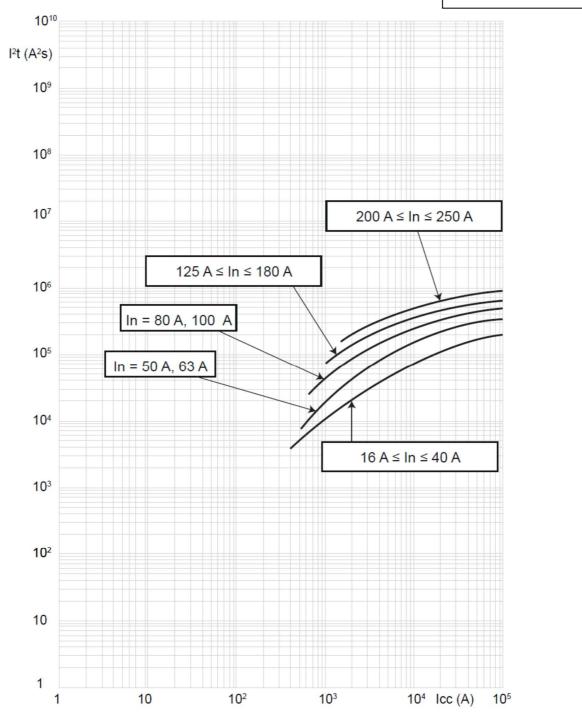
Value	Description					
I _{cc}	short circuit current					
I ² t (A ² s)	pass-through specific energy					

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;



Update: 20/11/2020



 I_{cu} = 70-100 kA I_{max} = 250A 3-4 P U_{e} = 415Vac (IEC/EN 60947-2)

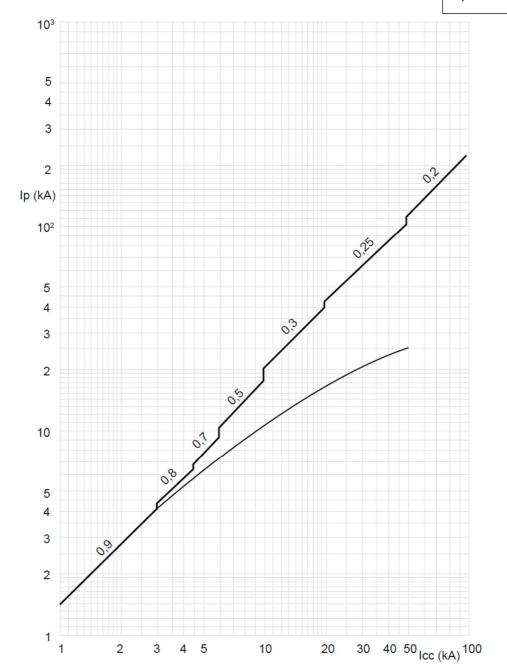
Value	Description					
I _{cc}	short circuit current					
I ² t (A ² s)	pass-through specific energy					

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;

9.3.1 Cut-off peak current characteristic curve (breaking capacity Icu <= 50kA)

Update: 30/08/2019



 I_{cu} = 36-50 kA I_{max} = 250A 3-4 P U_{e} = 415Vac (IEC/EN 60947-2)

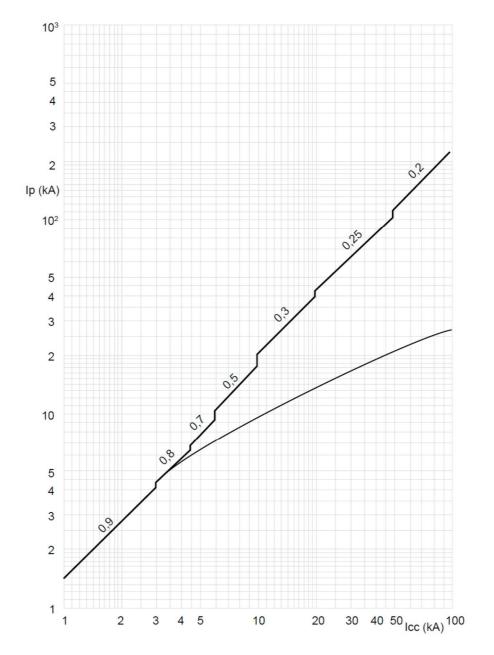
Value	Description						
I _{cc}	estimated short circuit symmetrical current (RMS value)						
I _p	maximum short circuit peak current						
	maximum prospective short circuit peak current						
	corresponding at the power factor						
	maximum real peak short circuit current						

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;

9.3.2 Cut-off peak current characteristic curve (breaking capacity Icu > 50kA)

Update: 20/11/2020



 I_{cu} = 70-100 kA I_{max} = 250A 3-4 P U_{e} = 415Vac (IEC/EN 60947-2)

Value	Description					
I _{cc}	estimated short circuit symmetrical current (RMS value)					
I _p	I _p maximum short circuit peak current					
	maximum prospective short circuit peak current					
	corresponding at the power factor					
	maximum real peak short circuit current					

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 °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						
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 _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	238	0.95	238	0.95	233	0.93	225	0.90

For further technical information, please contact Legrand technical support.

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

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