

DPX³ 250 thermal magnetic circuit breakers with earth leakage

DPX³-I 250 trip-free switches with earth leakage

Cat.Nos:

4 202 25 - 4 202 27 - 4 202 28 - 4 202 29
4 202 55 - 4 202 57 - 4 202 58 - 4 202 59
4 202 85 - 4 202 87 - 4 202 88 - 4 202 89
4 202 98



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1. USE

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

DPX³ range provides a complete project approach in premium market segment, offering a range completely suitable for medium power application at a competitive costs.

2. RANGE

■ 2.1 DPX³ 250 thermal magnetic circuit breaker with earth leakage

Icu	25 kA	36 kA	50 kA
In (A)	4P		
100	4 202 25	4 202 55	4 202 85
160	4 202 27	4 202 57	4 202 87
200	4 202 28	4 202 58	4 202 88
250	4 202 29	4 202 59	4 202 89

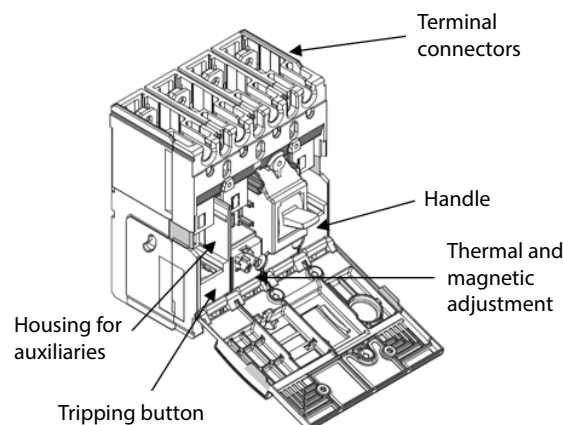
■ 2.2 DPX³-I 250 trip-free switch with earth leakage

In (A)	4P
250	4 202 98

■ 2.3 Composition

DPX³ 250 thermal magnetic is supplied with:

- fixing screws
- connection plates for bars or cable lugs
- insulating shields (phase barrier)



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3. TECHNICAL CHARACTERISTICS

■ 3.1 Electrical characteristics

DPX ³ 250 thermal magnetic circuit breakers with earth leakage	
Rated current	100 A, 160 A, 200 A, 250 A
Poles	4P
Pole pitch	35 mm
Rated insulation voltage (50/60Hz) Ui	500 V
Rated operating voltage (50/60Hz) Ue	500 V
Rated impulse withstand current Uimp	6 kV
Rated frequency	50 Hz - 60 Hz
Reference ambient temperature	40 °C - 50 °C
Operating temperature	-25 °C to 70 °C
Electrical endurance at In (cycles)	8000
Electrical endurance at 0.5 x In (cycles)	10000
Utilization category	A
Suitable for isolation	Yes
Type of protection	Thermal-magnetic
Thermal adjustment Ir	(0.8 ÷ 1) x In
Magnetic adjustment Ii (A)	5 - 10 x In
Neutral protection for 4P (%Ith of phase pole)	100
Earth leakage type	A - Integrated
Adjustable sensitivity	0.03 A - 0.3 A - 1 A - 3 A
Adjustable tripping	0s - 0.3s - 1s - 3s (for 0.03 A: 0s only)
Reverse feed	Yes

DPX³-I 250 trip-free switches with earth leakage

Uninterrupted nominal current Ie	250 A
Short-time resistive current Icw for 1s	3 kA
Rated short-circuit making capacity Icm	4.5 kA
Rated insulation voltage Ui	500 V~
Maximum rated operating voltage Ue	500 V~/=
Rated impulse withstand voltage Uimp	6 kV
Utilisation category	AC22-23A
Suitable for isolation	Yes
Rated frequency (Hz)	50 Hz - 60 Hz
Operating temperature	-25 °C to 70 °C
Electrical endurance at In (cycles)	8000
Electrical endurance at 0.5 x In (cycles)	10000
Earth leakage type	Integrated
Adjustable sensitivity	0.03 A - 0.3 A - 1 A - 3 A
Adjustable tripping	0s - 0.3s - 1s - 3s (for 0.03 A: 0s only)
Reverse feed	Yes

The maximum temperature allowed on power terminals is 125 °C (absolute). For details, see IEC 60947-1 and 60947-2.

Breaking capacity

Breaking capacity (kA) and Ics				
IEC 60947-2	Ue	Icu		
		25 kA	36 kA	50 kA
	220/240 V~	40	60	80
	380/415 V~	25	36	50
	440/460 V~	20	30	40
	480/500 V~	8	16	18
	Ics (% Icu)	100		
	Rated making capacity under short circuit Icm			
	Icm (kA) at 415 V	52.5	75.6	105

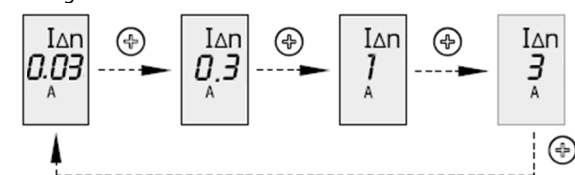
Rated current (In) at 40 °C/50 °C

Phases limit trip current				
Thermal (Ir)			Magnetic (Ii)	
In (A)	L1 - L2 - L3	N	L1 - L2 - L3	N
100	100		1000	
160	160		1600	
200	200		2000	
250	250		2500	

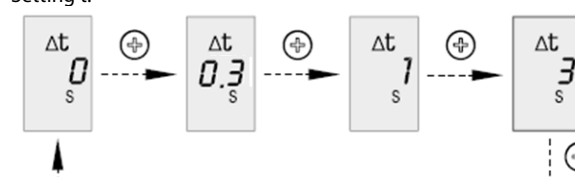
■ 3.2 Navigation

Setup mode

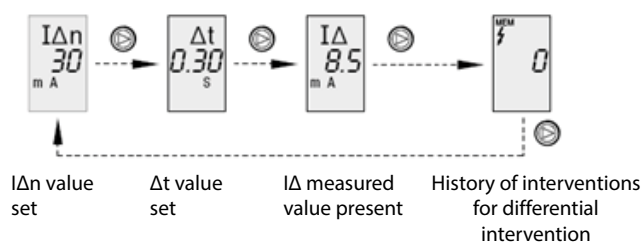
Setting IΔn:



Setting t:



ATTENTION: after 5" of permanence on display of the new protection value IΔn or time Δt, it is automatically set.



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3. TECHNICAL CHARACTERISTICS (continued)

■ 3.3 Mechanical characteristics

Mechanical endurance (cycles): 20000

Mechanical endurance with motor control (cycles): 20000

Load operations

	Force on handle (N)
Opening operation	45
Closing operation	78
Restore operation	75

■ 3.4 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)
25	400
36	350
50	300

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, the installer must take into account the weight of the conductors so that it does not affect the electrical junction between the conductor itself and the connection point.

■ 3.5 Power losses per pole under I_n (W)

Circuit breakers				
I _n (A)	100	160	200	250
Lugs	7.7	13.7	16.6	20.4
Cage terminals	7.9	14.4	17.7	22.2
High capacity cage terminals	8.0	14.5	17.9	22.5
Spreaders	8.0	14.5	17.9	22.5
Rear terminals*	8.0	14.5	17.9	22.5
Plug-in version*	11.0	22.1	29.8	41.1

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.

* Products available only for maintenance of existing installations. For further information, please contact Legrand. If you need to integrate these accessories into a new installation, please refer to the DPX³ HP range.

Trip-free switches	
I _n (A)	250
Lugs	14.3
Cage terminals	15.6
High capacity cage terminals	15.8
Spreaders	15.8
Rear terminals*	15.8
Plug-in version*	34.0

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

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4. INSTALLATION RULES

According to IEC/EN 60947-1.

Temperature deratings

Rated current and his adjustment has to be considered relating to a rise or fall of ambient temperature and to a different version or installation conditions. The table below indicates the maximum long-time (LT) protection setting depending on the ambient temperature.

Temperature Ta (°C)												
In (A)	-25	-20	-10	-5	0	10	20	30	40	50	60	70
100	135	132	128	126	123	120	112	102	100	100	90	84
160	216	211	205	201	197	192	179	163	160	160	143	134
200	270	264	256	251	246	240	224	203	200	200	179	168
250	338	330	320	314	308	300	280	254	250	250	224	210

For derating temperature with other configurations, see table below.

Ambient temperature	30 °C		40 °C		50 °C		60 °C		70 °C	
	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
Fixed version - vertical installation										
Cage terminals, flexible/rigid cable	250	1	250	1	238	0.95	188	0.75	150	0.60
Cage terminals, flexible/rigid cable + sealable terminal shields	250	1	250	1	238	0.95	188	0.75	150	0.60
Lugs, flexible/rigid cable	250	1	250	1	238	0.95	188	0.75	150	0.60
Lugs, flexible cable + sealable terminal shields	250	1	250	1	238	0.95	188	0.75	150	0.60
Spreaders, flexible/rigid cable	250	1	250	1	238	0.95	175	0.70	138	0.55
Rear flat staggered terminal*, flexible/rigid cable + sealable terminal shields	250	1	250	1	238	0.95	175	0.7	138	0.55

For further technical information, please contact Legrand technical support

* Products available only for maintenance of existing installations. For further information, please contact Legrand. If you need to integrate these accessories into a new installation, please refer to the DPX³ HP range.

Climatic conditions: according to IEC/EN 60947-1 Annex Q, Cat. F subject to temperature, humidity, vibration, shock and salt mist.

Electromagnetic disturbances (EMC): for DPX³ 250 circuit breakers, according to IEC/EN 60947-2 Annex B.

Pollution degree: for DPX³ 250 circuit breakers, degree 3, according to IEC/EN 60947-2.

Altitude

Altitude derating for DPX³ and DPX³-I

Altitude (m)	2000	3000	4000	5000
U _e (V)	500	430	380	330
I _n (A) (Ta = 40 °C / 50 °C)	1 x I _n	0.98 x I _n	0.93 x I _n	0.9 x I _n

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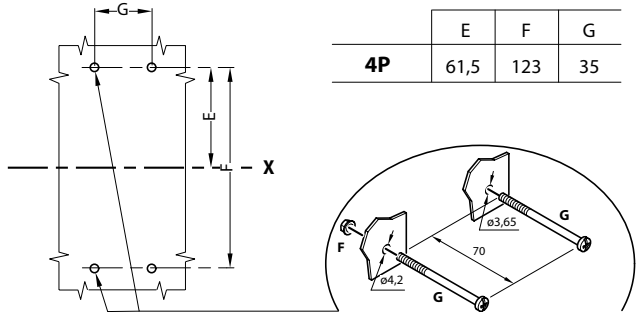
DPX³-I 250 trip-free switches
with earth leakage

5. DIMENSIONS AND WEIGHT

■ 5.1 Dimensions (mm)

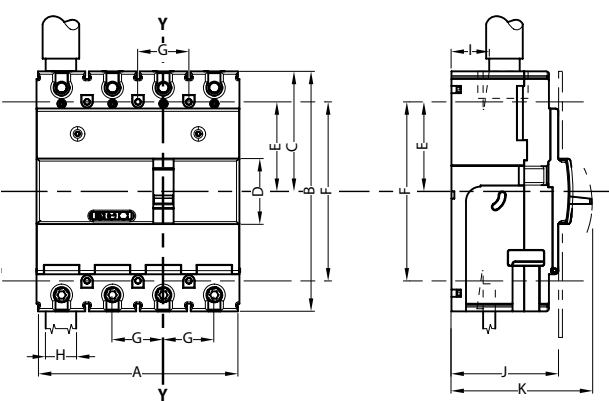
4P (W x H x D): 140 x 195 x 100

Implantation



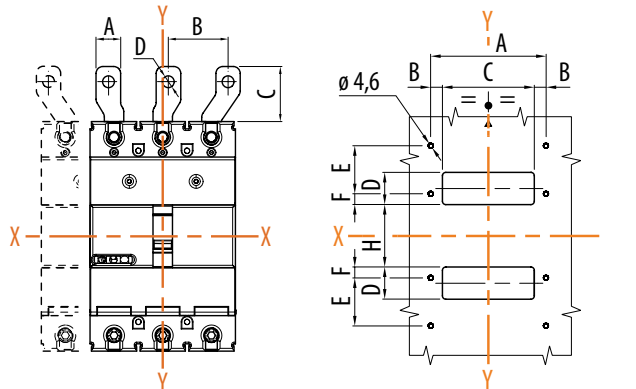
	E	F	G
4P	61,5	123	35

Fixed version
Device without accessories



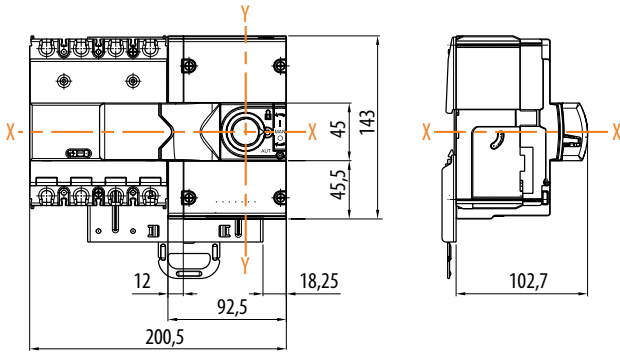
A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
140	195	82.5	45	61.5	153
G (mm)	H (mm)	I (mm)	J (mm)	K (mm)	
35	28.5	18	74	97	

With front terminal

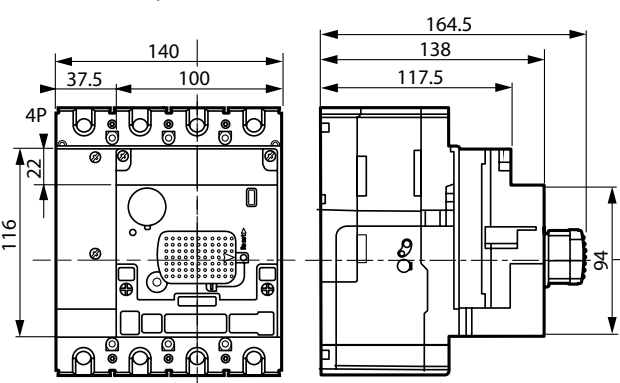


A (mm)	B (mm)	C (mm)	D (mm)
33	48.5	54.75	13

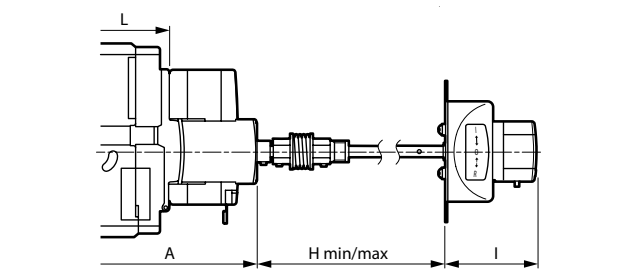
With motor operator



With direct rotary handle

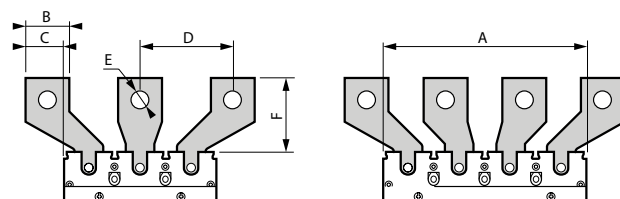


With vary depth rotary handle



A (mm)	L (mm)	H min. (mm)	H max. (mm)	I (mm)
122	74	132	361	62

With spreaders



A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
140	30	27	63.5	13	50

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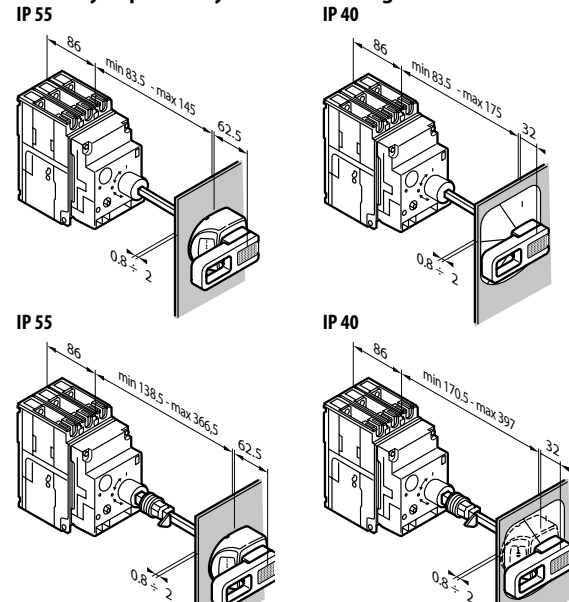
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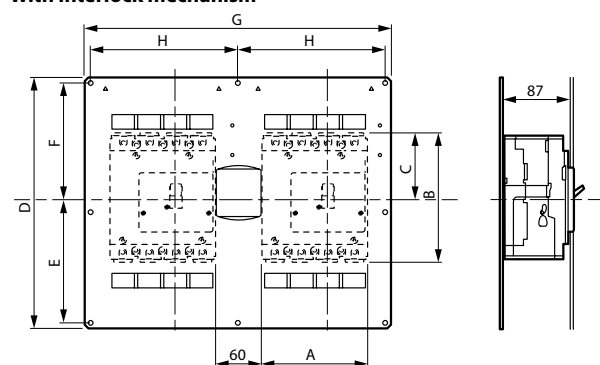
5. DIMENSIONS AND WEIGHT (continued)

5.1 Dimensions (mm) (continued)

With vary depth rotary handle according to the IP



With interlock mechanism



A	B	C	D	E	F	G	H
100	136	68	290	140	135	315	150

5.2 Weight

Weight (kg)	
Configuration	4P
Circuit breaker/trip-free switch	2.67
Direct rotary handle*	0.35
Vari depth rotary handle*	0.27
Motor operator*	1.22
Interlock*	1.08
Spreader*	0.35

* to add to device weight

6. CONNECTIONS

Possible way of assembly on DIN rail:

- vertical
- supply inverter type

To ensure the circuit breaker's connection, it is possible to use:

- busbars;
- cables lugs;
- cables;
- cage terminals;

Cage terminals capacity	
Bars	28.5 mm wide max.
Flexible cables	1.5 mm ² min. / 120 mm ² max.
Rigid cables	1.5 mm ² min. / 150 mm ² max.

For detailed mounting procedures, see instruction sheet.

7. EQUIPMENTS AND ACCESSORIES

7.1 Releases

There are 3 types of releases (suitable for DPX³ 125/160/250 HP and DPX³ 160/250):

Shunt releases (ST)

12 V~/=	Cat.No 4 210 12
24 V~/=	Cat.No 4 210 13
48 V~/=	Cat.No 4 210 14
110 to 130 V~	Cat.No 4 210 15
220 to 277 V~	Cat.No 4 210 16
380 to 480 V~	Cat.No 4 210 17
Maximum power = 400 VA / W	

Undervoltage releases (UVR)

12 V~/=	Cat.No 4 210 18
24 V~/=	Cat.No 4 210 19
48 V~/=	Cat.No 4 210 20
110 to 130 V~/=	Cat.No 4 210 21
220 to 240 V~	Cat.No 4 210 22
277 V~	Cat.No 4 210 23
380 to 415 V~	Cat.No 4 210 24
440 to 480 V~	Cat.No 4 210 25
Maximum power = 4 VA	
Circuit breaker opening time < 50 ms	

Time-lag undervoltage releases (800 ms)

- Release	Cat.No 4 210 98
to be equipped with a time-lag module:	
- 230 V~	Cat.No 0 261 90
- 400 V~	Cat.No 0 261 91

7.2 Auxiliary contacts

It is used to show the state of the contacts or opening of the DPX³ on a fault.

Standard auxiliary contact (OC) / Fault signal (CTR) Cat.No 4 210 11

Rated voltage (Vn)	Intensity (A)
24 V=	5
48 V=	1.7
110 V=	0.5
230 V=	0.25
110 V~	4
230/250 V~	3

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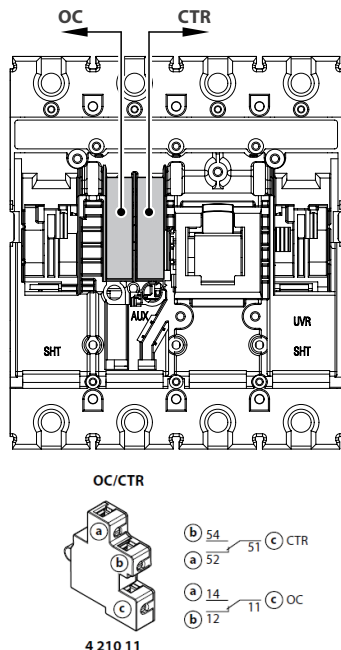
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7. EQUIPMENTS AND ACCESSORIES (continued)

■ 7.2 Auxiliary contacts (continued)

- Set of connectors for auxiliary contacts Cat.No 4 210 44
- Auxiliary contacts (1NC and 1 NO) Cat.No 4 210 10

Configurations



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

■ 7.3 Rotary handles

There are many types of suited rotary handles (also compatible with DPX³ 160):

Direct on DPX³ (with auxiliary option and compatible with XL³)

- Standard (black) Cat.No 4 210 01
- For emergency use (red / yellow) Cat.No 4 210 03

Vary depth handle IP55 (with auxiliary option and compatible with XL³)

- Standard (black) Cat.No 4 210 04
- For emergency use (red/yellow) Cat.No 4 210 05

Locking accessories (for rotary handle with auxiliary option)

For direct rotary handle:

- Key barrel and flat key N° ABA90GEL6149 Cat.No 4 210 06
- Key barrel and star key N° HBA90GPS6149 Cat.No 4 210 07

For vary depth rotary handle:

- Key barrel and flat key N° ABA90GEL6149 Cat.No 4 210 08
- Key barrel and star key N° HBA90GPS6149 Cat.No 4 210 09

Direct on DPX³ (general purpose)

- Standard (black) Cat.No 4 201 60
- For emergency use (red/yellow) Cat.No 4 201 73

Vary depth handle IP55 (general purpose)

- Standard (black) Cat.No 4 201 61
- For emergency use (red/yellow) Cat.No 4 201 74

Locking accessories (for general purpose rotary handle)

Key barrel and flat key:

- For direct rotary handles (random marking) Cat.No 4 201 64
- For direct handles (EL43525 marking) Cat.No 4 201 65

- For direct handles (EL43363 marking) Cat.No 4 201 66
- For vary depth handles (random marking) Cat.No 4 201 67
- For vary depth handles (EL43525 marking) Cat.No 4 201 68
- For vary depth handles (EL43363 marking) Cat.No 4 201 69

■ 7.4 Motor operators

- Side motor operator 24 - 230 V~/= Cat.No 4 210 60
- Front motor operator* 24 - 230 V~/= Cat.No 4 210 61

* Products available only for maintenance of existing installations. For further information, please contact Legrand. If you need to integrate these accessories into a new installation, please refer to the DPX³ HP range.

Locking accessories for side motor operator

- Key barrel and flat key N° ABA90GEL6149 Cat.No 4 210 65
- Key barrel and star key N° HBA90GPS6149 Cat.No 4 210 66
- Padlock Cat.No 4 210 67

Locking accessories for front motor operator*

- Ronis type flat key N° ABA90GEL6149 Cat.No 4 210 62
- Profalux type flat key N° HBA90GPS6149 Cat.No 4 210 63
- Padlock selector Cat.No 4 210 64

* Products available only for maintenance of existing installations. For further information, please contact Legrand. If you need to integrate these accessories into a new installation, please refer to the DPX³ HP range.

■ 7.5 Mechanical accessories

Padlocks (for locking in "open" position)

- DPX³ padlock accessory for handle Cat.No 4 210 49
- Cat.No 4 210 49 is compatible with DPX³ 125/160/250 HP and DPX³ 160/250.

Insulated shields (phase barriers)

- Set of 36 Cat.No 4 210 70

Sealable terminal shields

- for front spreaders 4P Cat.No 4 210 57

Fixing plates in XL³ for transfer switches

Plate for mounting and interlocking 2 DPX³.

It can be either 2 DPX³ 160 ; 2 DPX³ 250; or 1 DPX³ 160 and 1 DPX³ 250.

- For fixed version Cat.No 4 210 58
- For plug-in version* Cat.No 4 210 59

* Products available only for maintenance of existing installations. For further information, please contact Legrand. If you need to integrate these accessories into a new installation, please refer to the DPX³ HP range.

Fixing plates in XL³

For fixing DPX³ 250 on DIN rail or on plate

- For DPX³ 250 4P with earth leakage Cat.No 4 210 74
- For DPX³ 250 4P with side mounting motor operator Cat.No 4 210 69

■ 7.6 Connection accessories

Front spreaders

- Set of 4 (for 4P) Cat.No 4 238 35
- (Cat.Nos 4 238 35 is also compatible with DPX³ 250 HP)

Cage terminals

- Set of 4 standard terminals for 1x150 mm² max (rigid) or 1x120 mm² max (flexible) Cu/Al bar/cable lug (for Al cables In max 125 A) Cat.No 4 210 31
- Screw terminals for bar connections (4P) Cat.No 4 210 80

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7. EQUIPMENTS AND ACCESSORIES (continued)

7.6 Connection accessories (continued)

Cage terminal use specifications

Cable standard suggested cross-section (mm ²)*			
Cat.No 4 210 31	In (A)	Cu	Al
	16	2.5	4
	20	2.5	4
	25	4	6
	32	6	10
	40	10	16
	50	10	16
	63	16	25
	80	25	35
	100	35	50
	125	50	70
	160	70	-
	200	95	-
	250	120	-

* The suggested cross-section are in compliance with standard IEC 60947-1 (ed.6 2020/04) and IEC 60947-2 (ed.5.1 2019/07)

Dimensions limits of cable for cage terminals				
Cat.No 4 210 31	Min. cross-section (mm ²)		Max. cross-section (mm ²)	
	Flexible	Rigid	Flexible	Rigid
	2.5	4	120	150

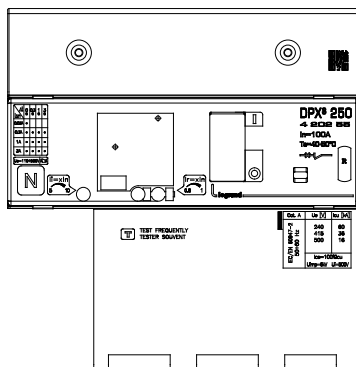
Note : when the cross-section exceeds the maximum value specified for the material in the table, the allowable current is limited to the indicated value

8. MARKING

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

Product laser label on front

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



Product sticker label on side

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

Z2332ACE

4P

In=100A

DIFF MGT



2049233201002866741

Made in Italy
25W249 80

Mark sticker label on side

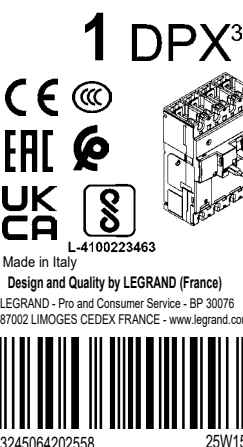
- Product code
- Mark/Licence (if any)
- Country deviation, if any

4 202 55



Packaging sticker label

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



4 202 55

- Disjoncteur + diff.
- M.c.c.b. + earth leakage
- Interruptores auto + diff.
- Дифференциальный авт.выкл.
- 具有剩余电流保护的断路器
- قاطع الدارة + مضبط تياراتي
- In=100A 4P Icu 36kA
- IEC/EN 60947-2
- IS/IEC 60947-2



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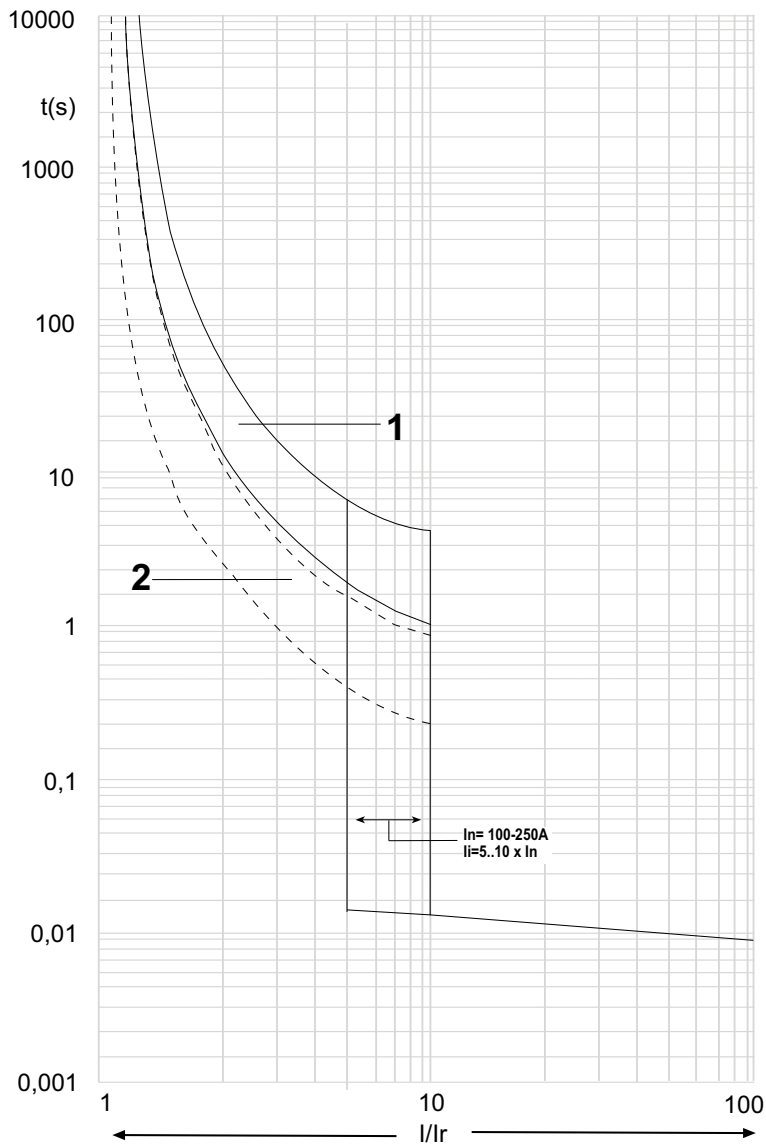
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9. CURVES

9.1 Thermal magnetic tripping curve

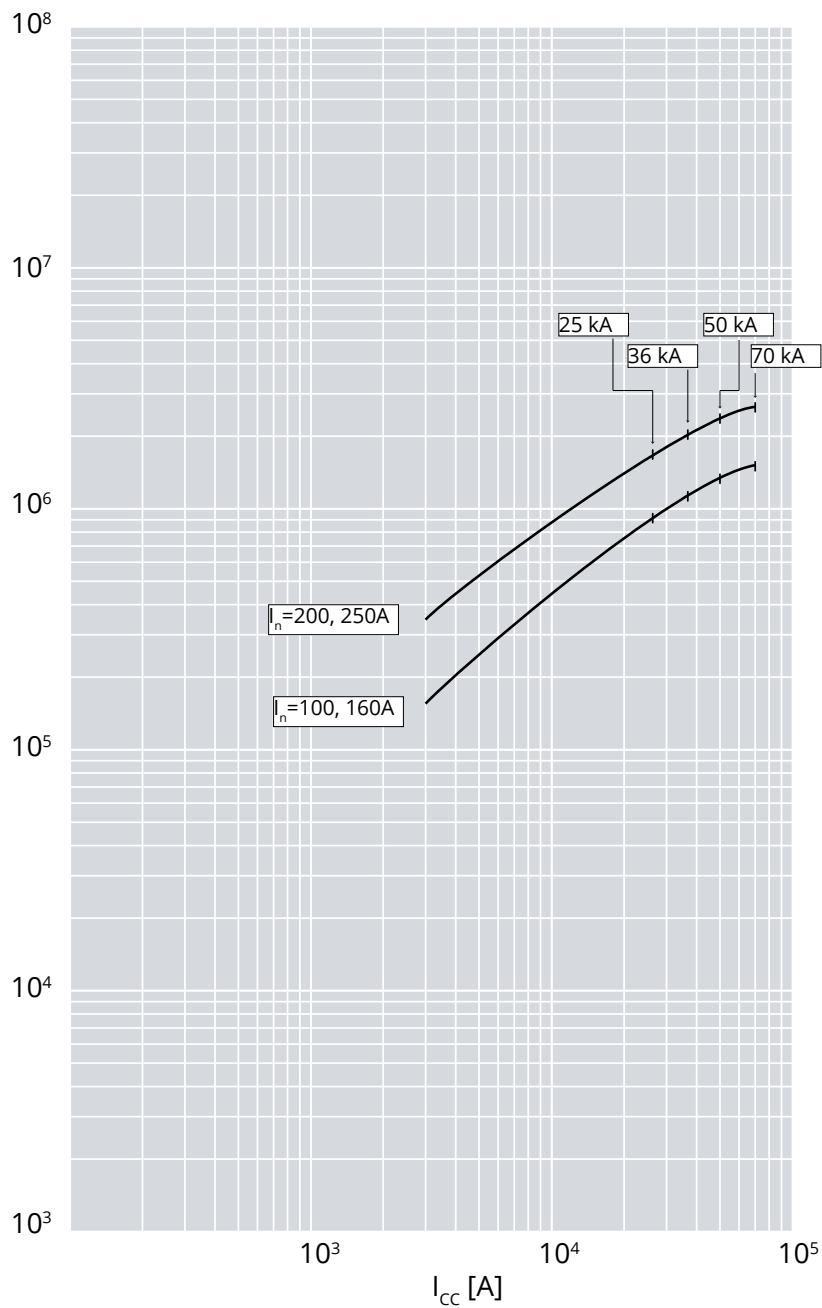


Icu = 25-36-50 kA	I _{max} = 250 A	3-4 P	U _e = 415 V~
Value	Description		
t	Time		
I	Current		
I _n	Rated current		
I _r	Long time setting current		
Curve 1	Characteristic with cold start		
Curve 2	Characteristic with hot start		

9. CURVES (continued)

9.2 Pass-through specific energy characteristic curve

Update : 07/05/2018



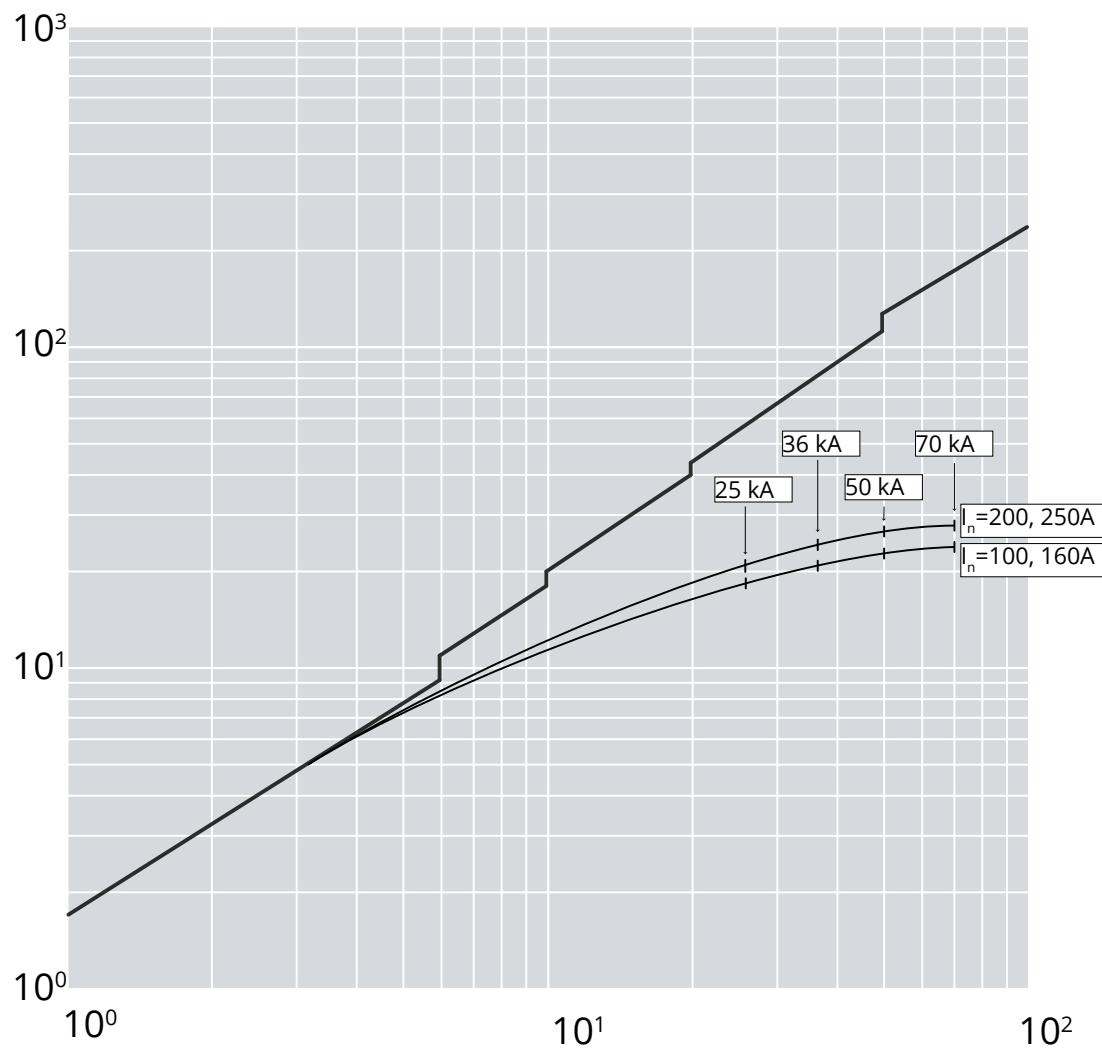
Icu = 25-36-50 kA Imax = 250 A 3-4 P Ue = 415 V~

Value	Description
Icc	Short circuit current
I²t (A²s)	Pass-through specific energy

9. CURVES (continued)

9.3 Cut-off peak current characteristic curve (kA)

Update: 07/05/2018



I_{cu} = 25-36-50 kA I_{max} = 250 A 3-4 P U_e = 415 V~

Value	Description
I _{cc}	Estimated short circuit symmetrical current (RMS value)
I _p	Maximum short circuit peak current

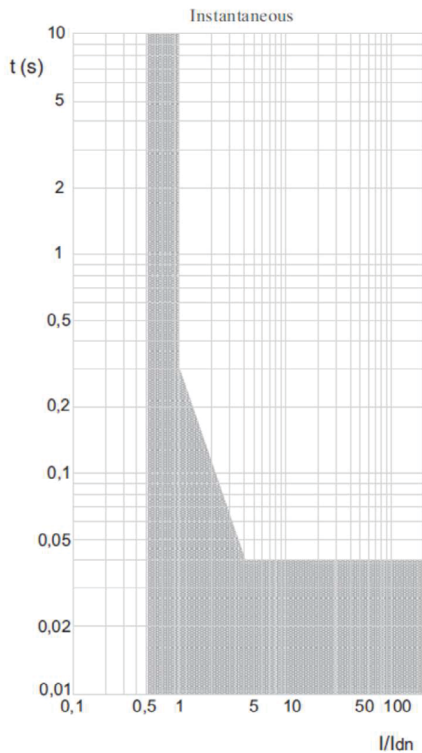
DPX³ 250 thermal magnetic circuit breakers
with earth leakage

DPX³-I 250 trip-free switches
with earth leakage

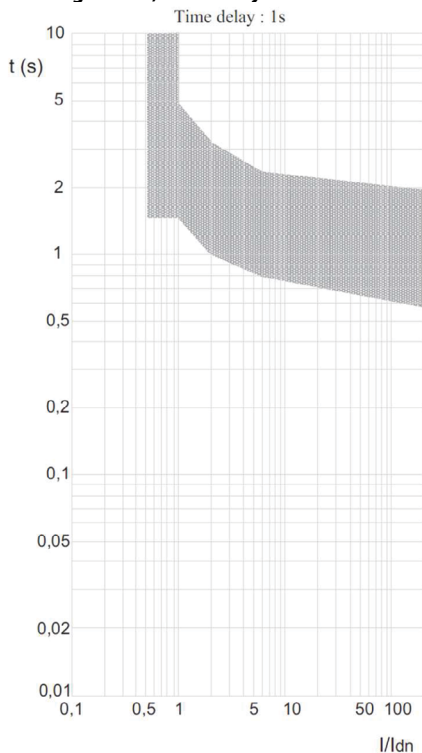
Cat.Nos:
4 202 25 - 4 202 27 - 4 202 28 - 4 202 29
4 202 55 - 4 202 57 - 4 202 58 - 4 202 59
4 202 85 - 4 202 87 - 4 202 88 - 4 202 89
4 202 98

9. CURVES (continued)

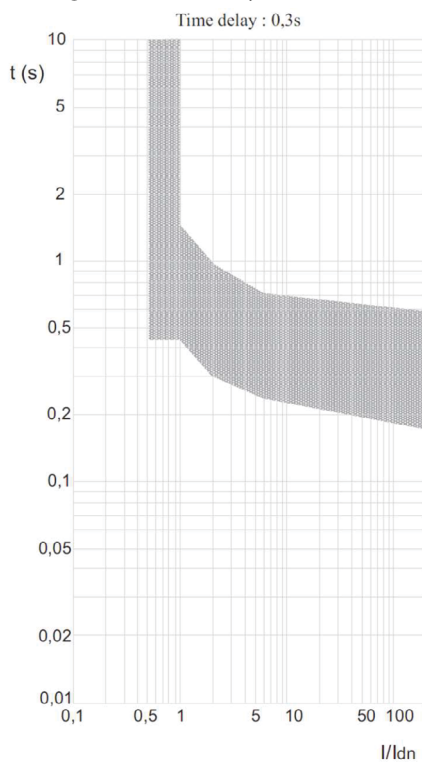
■ 9.4 Earth leakage curve, instantaneous



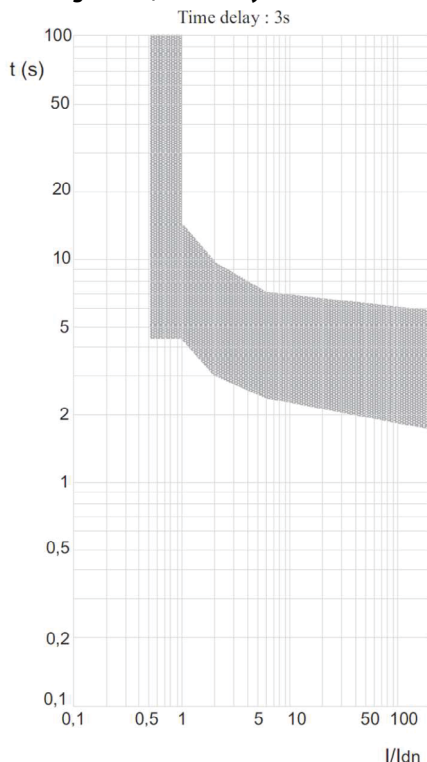
■ 9.6 Earth leakage curve, time delay = 1s



■ 9.5 Earth leakage curve, time delay = 0.3 s



■ 9.7 Earth leakage curve, time delay = 3 s



DPX³ 250 thermal magnetic circuit breakers with earth leakage

DPX³-I 250 trip-free switches with earth leakage

Cat.Nos:

4 202 25 - 4 202 27 - 4 202 28 - 4 202 29

4 202 55 - 4 202 57 - 4 202 58 - 4 202 59

4 202 85 - 4 202 87 - 4 202 88 - 4 202 89

4 202 98

10. STANDARDS AND REGULATIONS

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

DPX³ range respects the European Directives:

RoHS: Compliance with the 2011/65/EU Directive (RoHS), as modified by the 2015/863/EU Delegated Directive, on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

REACH: The substances identified as SVHC (Substances of Very High Concern) according to the REACH Regulation (1907/2006), if present in the products at a concentration above 0.1% weight by weight, are declared inside the European SCIP database. At the date of publication of this document none of the substance listed in the annex XIV is found in this product.

WEEE: WEEE Directive (2012/19/EU): the sale of this product includes a contribution to the appointed environmental bodies of each European country in charge of handling, at the end of their life, the products falling within the scope of the EU Directive on Electrical and Electronic Equipment Waste.

Batteries : The batteries included in this product comply with the requirements set out in European Regulation 2023/1542, according to the application timing indicated therein.

Packaging : Design and manufacture of packaging compliant with European Directive 94/62/CE.

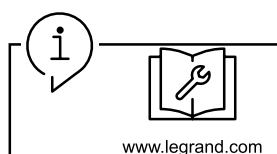
For specific information, please contact Legrand support.

11. OTHER INFORMATION

XLPro Calcul: Calculation notes creation software, addressed to installers, design office and maintenance operators. Definition of the electrical characteristics of a low voltage installation in compliance with the applicable standards

XLPro³ Tool Selectivity and backup/ Legrand Selectivity and backup: Software dedicated to installers, panelbuilders and design offices. Definition of the selectivity and backup values of an association of electrical devices and obtention of the tripping curves of the selected products.

XLPro Panels: Distribution panel design software, addressed to panelbuilders and electrical panel designers. Design of the electrical distribution of the panel, production of electrical diagrams, establishment of products and overall costing of the project.



Workshop book: mounting informations, equipments, accessories and spare parts available on e-catalog.

Instruction sheet: detailed mounting procedures, available on e-catalog.

PEP: available on e-catalog.

For further technical information, please contact Legrand technical support.

Unless otherwise indicated, data reported in this document refers exclusively to test conditions according to product standards.

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