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DPX³ 1600 Thermal magnetic DPX³-I 1600 trip free switches

Cat.Nos: 4 222 50 to 4 222 97 - 4 224 90 to 4 224 97

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1. USE

DPX3 range is able to cover extended ranges in terms of breaking capacities and rated currents and make protection suitable for different installations.

2. RANGE

DPX³ 1600 TM						
Icu	36 kA			50 kA		
In (A)	3P	4P	3P+N/2	3P	4P	3P+N/2
500	4 222 50	4 222 55	-	4 222 62	4 222 67	-
630	4 222 51	4 222 56	-	4 222 63	4 222 68	-
800	4 222 52	4 222 57	-	4 222 64	4 222 69	-
1000	4 222 53	4 222 58	4 222 60	4 222 65	4 222 70	4 222 72
1250	4 222 54	4 222 59	4 222 61	4 222 66	4 222 71	4 222 73

Icu	70 kA			100 kA		
In (A)	3P	4P	3P+N/2	3P	4P	3P+N/2
500	4 222 74	4 222 79	-	4 222 86	4 222 91	-
630	4 222 75	4 222 80	-	4 222 87	4 222 92	-
800	4 222 76	4 222 81	-	4 222 88	4 222 93	-
1000	4 222 77	4 222 82	4 222 84	4 222 89	4 222 94	4 222 96
1250	4 222 78	4 222 83	4 222 85	4 222 90	4 222 95	4 222 97

DPX³-I 1600		
In (A)	3P	4P
500	-	-
630	4 224 90	4 224 94
800	4 224 91	4 224 95
1000	-	-
1250	4 224 92	4 224 96
1600	4 224 93	4 224 97

2.1 Composition

DPX³ 1600 are supplied with :
- fixing screws (4 for 3P and 4P)
- screws for connections (6 for 3P and 8 for 4P)
- phase insulators (2 for 3P and 3 for 4P)

3. TECHNICAL CHARACTERISTICS

3.1 Electrical characteristics

DPX³ thermal magnetic circuit breaker	
Rated current	500 A, 630 A, 800 A, 1000 A, 1250 A
Poles	3P-4P
Pole pitch	70 mm
Rated insulation voltage (50/60Hz) Ui	1000 V
Rated operating voltage (50/60Hz) Ue	690 V
Rated impulse withstand current Uimp	8 kV
Rated frequency	50-60 Hz
Operating temperature	-25 °C to +70 °C
Electrical endurance at In (cycles)	4000
Electrical endurance at 0.5 In (cycles)	8000
Utilization category	A
Suitable for isolation	Yes
Reverse feed	Yes

3. TECHNICAL CHARACTERISTICS *(continued)*

■ 3.1 Electrical characteristics *(continued)*

DPX³-I 1600 trip free switches	
Rated current In	630 A - 800 A - 1250 A - 1600 A
Rated closing capacity on short-circuit Icm (kA)	17 (up to 800A) - 24 (up to 1000A) - 40 (up to 1600A)
Utilization category	AC23A
Short-time resistive current Icw(kA)	for 1s 10 (up to 800A) - 12 (up to 1000A) - 20 (up to 1600A)
Isolated voltage Ui	1000V~
Maximum rated operating voltage (50/60Hz) Ue	690V
Rated impulse withstand voltage Uimp	8kV
Rated frequency	50Hz to 60Hz
Operating temperature	-25 °C to 70 °C
Suitable for isolation	Yes
Electrical endurance (cycles)	4000
Electrical endurance at 0.5 In (cycles)	8000

The maximum admissible (absolute) temperature is 125 °C (for detail, see IEC 60947-1 and 60947-2).

Trip-free switches: category of use

	1P*	2P*		3P in series*	4P in series*
In (A)	60 V	110 V	250 V	500 V	750 V
800	DC23	DC23	DC23	DC23	DC23
1250	DC23	DC23	DC23	DC23	DC23
1600	DC23	DC23	DC23	DC23	DC23

Breaking capacity (3P and 4P)

Breaking capacity (kA) & Ics					
	Ue/Icu (Icu letter)	3P-4P			
		36kA (F)	50 kA (N)	70 kA (H)	100 kA (L)
IEC 60947-2	220/240 V~	70	100	105	150
	380/415 V~	36	50	70	100
	440/460 V~	30	45	65	80
	480/500 V~	25	35	45	55
	480/500 V~	20	24	28	30
	600 V~	20	24	28	30
	690 V~	14	20	22	25
	Ics (% Icu)	100			70
	Rated making capacity under short Icm				
	Icm (kA) at 415V	76.5	105	154	220

Rated current (In) at 40 °C/50 °C

Phases limit trip current				
	Thermal (Ir)		Magnetic (Ii)	
In (A)	**0.8 x In**	**1 x In**	**5 x Ir**	**10 x Ir**
500	400	500	2500	5000
630	504	630	3150	6300
800	640	800	4000	8000
1000	800	1000	5000	10000
1250	1000	1250	6250	12500

*For neutral adjustment, as explained in technical sheet, please consider the values ratios 100% on set currents.

■ 3.2 Mechanical characteristics

Mechanical endurance: 10 000 cycles
Mechanical endurance with motor control: 5 000 cycles

Load operations

	Intensities	
Force on handle	**In ≤ 400 A**	**In ≥ 500 A**
Opening operation (N)	80	130
Closing operation (N)	180	210
Restore operation (N)	145	200

■ 3.3 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.

Icc (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.

3. TECHNICAL CHARACTERISTICS *(continued)*

■ 3.4 Power losses per pole under In (W)

Circuit breakers (W)					
In (A)	**500**	**630**	**800**	**1000**	**1250**
Lugs	30.7	47.7	46.2	53.7	99.4
Cage terminals	32,1	49,8	49,7	59,1	107,8
External terminals					
Spreaders					
Rear terminals					
Draw out version	34,7	54,0	56,4	69,7	124,4

Trip-free switches (W)						
In (A)	**500**	**630**	**800**	**1000**	**1250**	**1600**
Lugs	32,0	50,8	29,8	47,6	74,4	65,3
Cage terminals	33,0	52,4	32,3	51,6	80,7	70,8
External terminals	33,2	52,7	32,7	52,4	81,8	71,8
Spreaders						
Rear terminals						
Draw out version	36,0	57,2	40,0	63,6	99,4	109,2

Note: power loss 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.

Circuit breakers: breaking capacity in DC (kA) (values estimates only)

		1 pole*	**2 poles in series***	**3 poles in series***
Icu (kA)	**In (A)**	60 V	60 V/110 V/250 V	110 V/250 V/500 V
36	**500 to 1250**	35	35	35
50		50	50	50
70		70	70	70
100		100	100	100

DC breaking capacity in the table respect the standards. The positive tolerance is between 0% to 5% of voltage status.

4. INSTALLATION RULES

According to IEC/EN 60947-1.

■ 4.1 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)	**10**	**20**	**30**	**40**	**50**	**60**	**70**
500	605	570	535	500	500	430	395
630	743	705	668	630	630	555	518
800	944	896	848	800	800	704	656
1000	1180	1120	1060	1000	1000	880	820
1250	1475	1400	1325	1250	1250	1100	1025

4. INSTALLATION RULES *(continued)*

■ 4.1 Temperature deratings *(continued)*

Derating temperature and configurations

		Imax (A)	Ir/In	Imax (A)	Ir/In	Imax (A)	Ir/In	Imax (A)	Ir/In	Imax (A)	Ir/In
	Ambient temperature	**30 °C**		**40 °C**		**50 °C**		**60 °C**		**70 °C**	
Fixed version 500 A	Lugs, flexible/rigid cable or bars	525	1,05	500	1	500	1	475	0,95	450	0,9
	Lugs, flexible/rigid cable or bars + sealable terminal shields	500	1	475	0,95	475	0,95	450	0,9	425	0,85
	Cage terminals, flexible/rigid cable	525	1,05	500	1	500	1	475	0,95	450	0,9
	Extended front terminals	525	1,05	500	1	500	1	475	0,95	450	0,9
	Spacers	525	1,05	500	1	500	1	475	0,95	450	0,9
	Rear flat short terminals, vertical	525	1,05	500	1	500	1	475	0,95	450	0,9
	Rear flat long terminals, vertical	525	1,05	500	1	500	1	475	0,95	450	0,9
	Rear flat short terminals, horizontal	525	1,05	500	1	500	1	450	0,9	425	0,85
	Rear flat long terminals, horizontal	525	1,05	500	1	500	1	450	0,9	425	0,85
Draw-out version 500 A	Front terminals	525	1,05	500	1	500	1	425	0,85	375	0,75
	Rear terminals, vertical	500	1	500	1	500	1	450	0,9	400	0,8
	Rear terminals, horizontal	525	1,05	500	1	500	1	425	0,85	375	0,75
Fixed version 630 A	Lugs, flexible/rigid cable or bars	661,5	1,05	630	1	630	1	580	0,92	548	0,87
	Lugs, flexible/rigid cable or bars + sealable terminal shields	630	1	599	0,95	599	0,95	548	0,87	517	0,82
	Cage terminals, flexible/rigid cable	661,5	1,05	630	1	630	1	580	0,92	548	0,87
	Extended front terminals	661,5	1,05	630	1	630	1	580	0,92	548	0,87
	Spacers	661,5	1,05	630	1	630	1	580	0,92	548	0,87
	Rear flat short terminals, vertical	661,5	1,05	630	1	630	1	580	0,92	548	0,87
	Rear flat long terminals, vertical	661,5	1,05	630	1	630	1	580	0,92	548	0,87
	Rear flat short terminals, horizontal	661,5	1,05	630	1	630	1	548	0,87	517	0,82
	Rear flat long terminals, horizontal	661,5	1,05	630	1	630	1	548	0,87	517	0,82
Draw-out version 630 A	Front terminals	661,5	1,05	630	1	598,5	0,95	510,3	0,81	453,6	0,72
	Rear terminals, vertical	630	1	630	1	630	1	535,5	0,85	472,5	0,75
	Rear terminals, horizontal	661,5	1,05	630	1	598,5	0,95	510,3	0,81	453,6	0,72
Fixed version 800 A	Lugs, flexible/rigid cable or bars	840	1,05	800	1	800	1	720	0,9	680	0,85
	Lugs, flexible/rigid cable or bars + sealable terminal shields	800	1	760	0,95	760	0,95	680	0,85	640	0,8
	Cage terminals, flexible/rigid cable	840	1,05	800	1	800	1	720	0,9	680	0,85
	Extended front terminals	840	1,05	800	1	800	1	720	0,9	680	0,85
	Spacers	840	1,05	800	1	800	1	720	0,9	680	0,85
	Rear flat short terminals, vertical	840	1,05	800	1	800	1	720	0,9	680	0,85
	Rear flat long terminals, vertical	840	1,05	800	1	800	1	720	0,9	680	0,85
	Rear flat short terminals, horizontal	840	1,05	800	1	800	1	680	0,85	640	0,8
	Rear flat long terminals, horizontal	840	1,05	800	1	800	1	680	0,85	640	0,8
Draw-out version 800 A	Front terminals	840	11,05	800	1	720	0,9	640	0,8	560	0,7
	Rear terminals, vertical	800	1	800	1	760	0,95	680	0,85	600	0,75
	Rear terminals, horizontal	840	11,05	800	1	720	0,9	640	0,8	560	0,7

Fixed version 1000 A	Lugs, flexible/rigid cable or bars	1050	1,05	1000	1	1000	1	920	0,92	870	0,87
	Lugs, flexible/rigid cable or bars + sealable terminal shields	1000	1	950	0,95	950	0,95	870	0,87	820	0,82
	Cage terminals, flexible/rigid cable	1050	1,05	1000	1	1000	1	920	0,92	870	0,87
	Extended front terminals	1050	1,05	1000	1	1000	1	920	0,92	870	0,87
	Spacers	1050	1,05	1000	1	1000	1	920	0,92	870	0,87
	Rear flat short terminals, vertical	1050	1,05	1000	1	1000	1	920	0,92	870	0,87
	Rear flat long terminals, vertical	1050	1,05	1000	1	1000	1	920	0,92	870	0,87
	Rear flat short terminals, horizontal	1050	1,05	1000	1	1000	1	870	0,87	820	0,82
	Rear flat long terminals, horizontal	1050	1,05	1000	1	1000	1	870	0,87	820	0,82
Draw-out version 1000 A	Front terminals	1050	1,05	1000	1	900	0,9	810	0,81	720	0,72
	Rear terminals, vertical	1000	1	1000	1	950	0,95	850	0,85	750	0,75
	Rear terminals, horizontal	1050	1,05	1000	1	900	0,9	810	0,81	720	0,72
Fixed version 1250 A	Lugs, flexible/rigid cable or bars	1313	1,05	1250	1	1250	1	1125	0,9	1063	0,85
	Lugs, flexible/rigid cable or bars + sealable terminal shields	1250	1	1188	0,95	1188	0,95	1063	0,85	1000	0,8
	Cage terminals, flexible/rigid cable	1313	1,05	1250	1	1250	1	1125	0,9	1063	0,85
	Extended front terminals	1313	1,05	1250	1	1250	1	1125	0,9	1063	0,85
	Spacers	1313	1,05	1250	1	1250	1	1125	0,9	1063	0,85
	Rear flat short terminals, vertical	1313	1,05	1250	1	1250	1	1125	0,9	1063	0,85
	Rear flat long terminals, vertical	1313	1,05	1250	1	1250	1	1125	0,9	1063	0,85
	Rear flat short terminals, horizontal	1313	1,05	1250	1	1250	1	1062,5	0,85	1000	0,8
	Rear flat long terminals, horizontal	1313	1,05	1250	1	1250	1	1062,5	0,85	1000	0,8
Draw-out version 1250 A	Front terminals	1313	1,05	1250	1	1125	0,9	1000	0,8	875	0,7
	Rear terminals, vertical	1250	1	1250	1	1188	0,95	1063	0,85	938	0,75
	Rear terminals, horizontal	1313	1,05	1250	1	1125	0,9	1000	0,8	875	0,7

For further technical information, please contact Legrand technical support.

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 1600 circuit breakers, according to IEC/EN 60947-2 Annex F

Pollution degree: degree 3 for DPX3 1600 circuit breakers, according to IEC/EN 60947-2.

Altitude
Altitude derating for DPX³ and DPX³–I

Altitude (m)	2000	3000	4000	5000
Ue (V)	690	590	520	460
In (A) (Ta = 40 °C/50 °C)	1 x In	0.98 x In	0.93 x In	0.90 x In

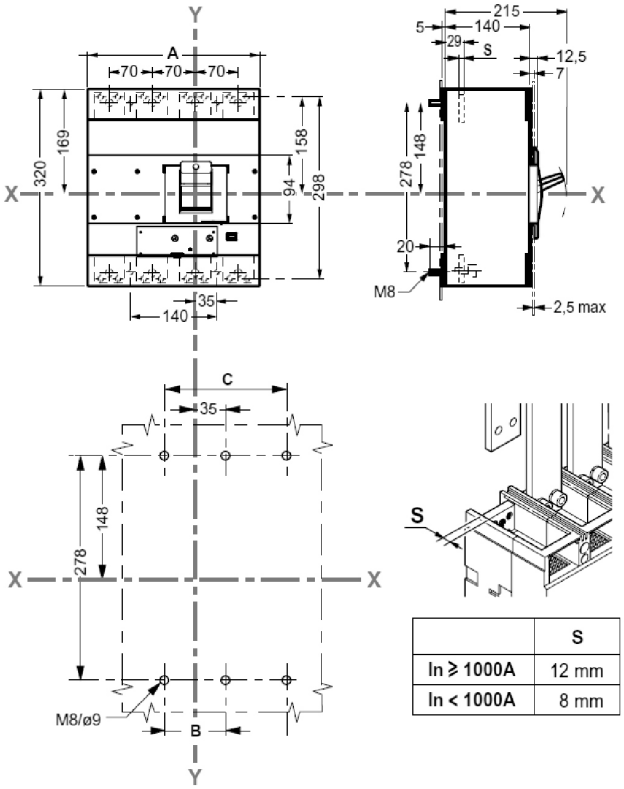
5. DIMENSIONS AND WEIGHT

■ 5.1 Weights (kg)

In	3P		4P	
	≤ 1250 A	1600 A	≤ 1250 A	1600 A
Circuit breaker (fixed version)	16	17	20	21.5
Draw-out base (with front terminals)*	18		22	
Draw-out base (with rear terminals)*	21.7		26.2	
Debro-lift mechanism*	9.9		11.2	

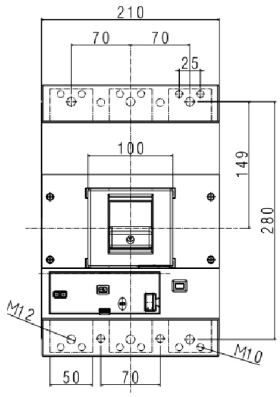
*to add to fixed version

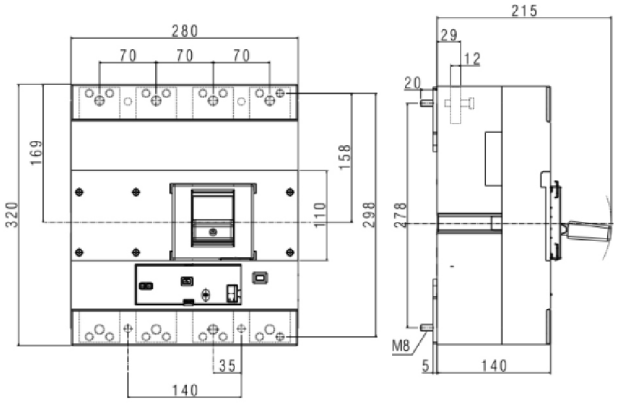
Implantation

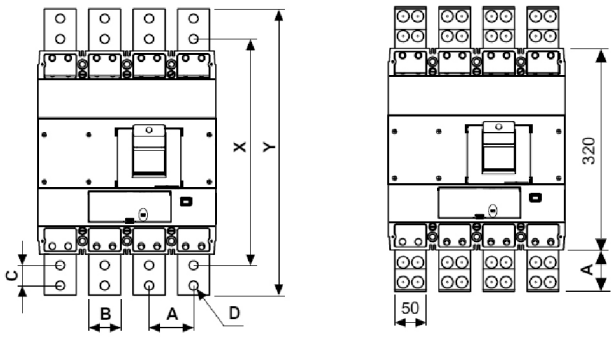


	S
In ⩾ 1000A	12 mm
In < 1000A	8 mm

Front terminals
- Fixed version







	A	B	C	D	X	Y
	70	50	32	14	358	452
	125	100	25	14,5	544	624

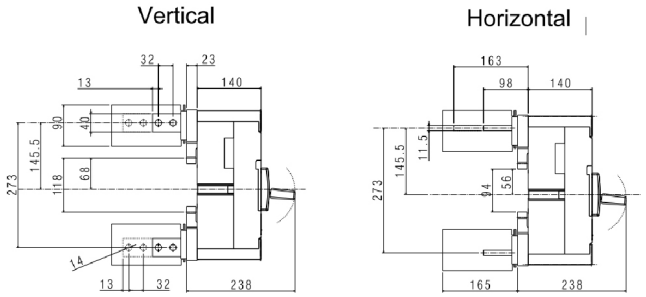
A	1,5	63

5. DIMENSIONS AND WEIGHT *(continued)*

■ 5.1 Weights (kg) *(continued)*

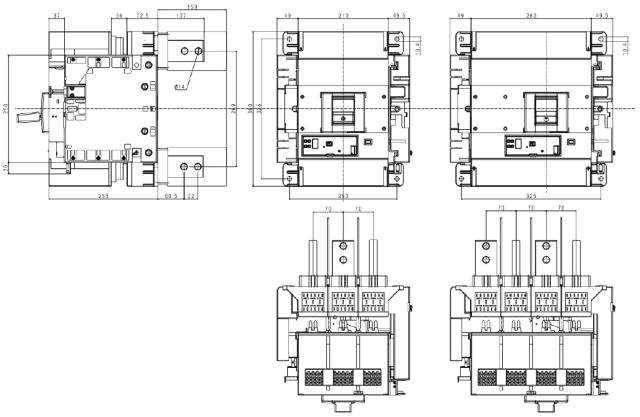
Side view

- Flat rear terminals



Draw-out version

- Rear terminals



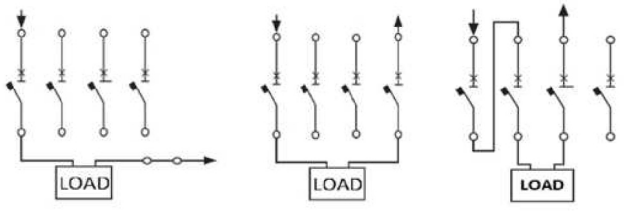
6. CONNECTIONS

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

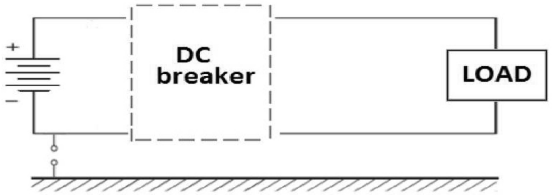
- Busbars;
- Cable lugs;
- Spreaders Cat.No 0 262 73 (3P)/Cat.No 0 262 74 (4P);
- Cage terminals;
- Cables

For detailed mounting procedures, see instruction sheet.

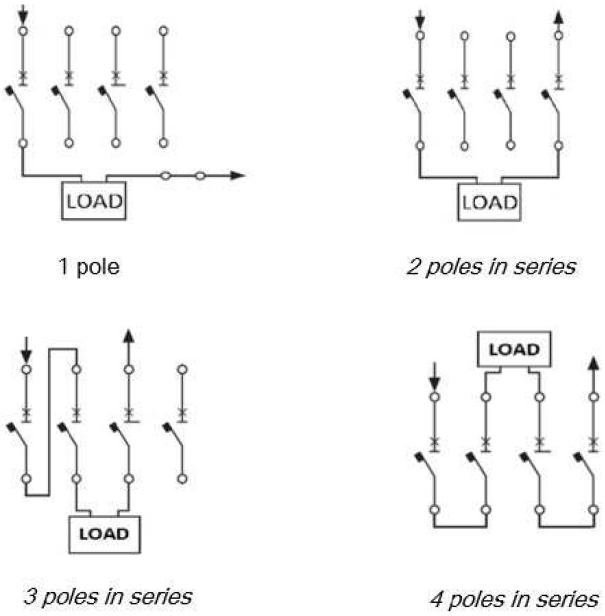
*Connection modality for DC breaker (polarity can be inverted):



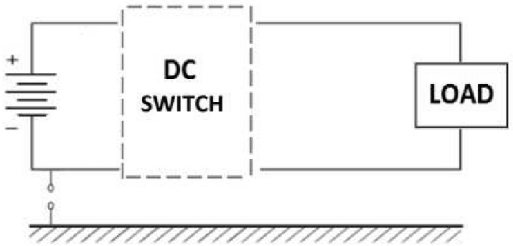
Applied to DC networks insulated from the ground
(this diagram applies to both 3P and 4P circuit breakers):



*Connection modality for DC switch disconnectors (polarity can be inverted):



Applied to DC networks insulated from the ground



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.

7. EQUIPMENTS AND ACCESSORIES

■ 7.1 Releases

The releases are suited for DPX³ 630/DPX³ 1600.

There are 3 types of releases:

Shunt releases with voltage

24 V~/⎓	Cat.No 4 222 39
48 V~/⎓	Cat.No 4 222 40
110 to 130 V~/⎓	Cat.No 4 222 41
220 to 250 V~/⎓	Cat.No 4 222 42
380 to 440 V~/⎓	Cat.No 4 222 43

7. EQUIPMENTS AND ACCESSORIES *(continued)*

■ 7.1 Releases *(continued)*

Rated voltage (Uc)	∿/⎓: 24 V/48 V/110 V to 130 V/ 220 V to 250 V/380 V to 440 V
Voltage range (% Uc)	70 to 110
Intervention time (ms)	≤ 50
Power consumption (W/VA)	300
Minimum opening time (ms)	50
Insulation voltage (kV)	2.5

Undervoltage releases with voltage

24 V⎓	Cat.No 4 222 44
24 V∿	Cat.No 4 222 45
48 V⎓	Cat.No 4 222 46
110 to 125 V∿	Cat.No 4 222 47
220 to 240 V∿	Cat.No 4 222 48
380 to 415 V∿	Cat.No 4 222 49

Rated voltage (Uc)	∿: 24 V/110 to 125 V/ 220 to 240 V 380 to 415 V ⎓: 24 V/48 V
Voltage range (% Uc)	85 to 110
Power consumption (W/VA)	1.6/5
Minimum opening time (ms)	50

Time-lag undervoltage releases (800 ms)

Time-lag modules with voltage:

230 V∿	Cat.No 0 261 90
400 V∿	Cat.No 0 261 91
Universal realease	Cat.No 4 226 23

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

■ 7.2 Auxiliary contacts

The auxiliary contacts are suited for DPX³ 630/DPX³ 1600.

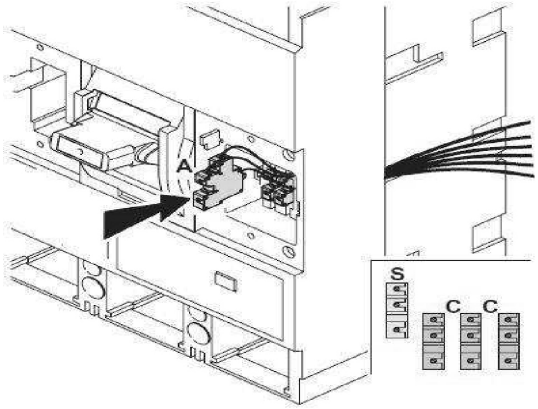
Chargeover switch 3 A - 250 V∿ Cat.No 4 210 11

To show the state of the contacts or opening of the DPX³/DPX³ -I on a fault:
- Auxiliary contact (standard): OC
- Fault signal: CTR

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

Configurations

DPX³ 1600 → 3 auxiliary contacts + 1 fault signal+ 1 release



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

■ 7.3 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 must be added in order to get the complete locking kits for the specific application:

1 lock + 1 flat key with random mapping	Cat.No 4 238 80
1 lock + 1 flat key with fixed mapping (EL43525)	Cat.No 4 238 81
1 lock + 1 flat key with fixed mapping (EL43363)	Cat.No 4 238 82
1 lock + 1 flat key with random mapping	Cat.No 4 238 83

■ 7.4 Rotary handles

There are four types of suited rotary handles:

Direct on DPX³ (with auxiliary option)

Standard (black) Cat.No 0 262 61

Vary depth handle IP55 (with auxiliary option)

Standard (black)	Cat.No 0 262 83
For emergency use (red/yellow) (adapting on standard handle)	Cat.No 0 262 84

Locking accessories (for vary depth handle with auxiliary option)

Key lock accessory for vary depth rotary handle Cat.No 4 228 07
(It must be used with universal keylocks to get the complete locking kit for rotary handle).

■ 7.5 Motor operators (front operated)

Factory assembled

230 V∿ Cat.No 0 261 54

Note: Opening time + motor reset = 6s.
Closing time ≤ 100ms.

7. EQUIPMENTS AND ACCESSORIES *(continued)*

Tension	Intensity	Cat.Nos
24 V~/⎓	In ≤ 1250 A	0 261 24
48 V~/⎓		0 261 25
110 V~/⎓		0 261 26
220 V~/⎓		0 261 23
24 V~/⎓	In = 1600 A	0 261 19
48 V~/⎓		0 261 28
110 V~/⎓		0 261 29
220 V~/⎓		0 261 27

Note: Closing time for the motor = 4s.
Opening time = 3s.

Direct Transmission		
Voltage	**Input Power**	
	Start	**Staedy state**
24V dc	460	160
48V dc		
24V ac		
48V ac		
110V ac		
230V ac		

Energy Storage		
Voltage	**Input Power**	
	Start	**Staedy state**
24 ac/dc	460	110
48 ac/dc		
110 ac/dc		
230 ac/dc		

Locking accessories
Key lock accessory for motor operator Cat.No 4 228 06
(It must be used with universal keylocks to get the complete locking dit for motor operator).

■ 7.6 Mechanical accessories

There are many types of mechanical accessories:

- Padlock (for locking in "OPEN" position) Cat.No 0 262 60
- Set of 3 insulated shields (phase insulators) Cat.No 0 262 66
- Sealable terminal shields:
  Set of 2 (for 3P) Cat.No 0 262 64
  Set of 2 (for 4P) Cat.No 0 262 65
- Terminal covers to guarantee IP20:
  Set of 2 (for 3P) Cat.No 4 225 90
  Set of 2 (for 4P) Cat.No 4 225 91
- External neutral Cat.No 4 225 92

■ 7.7 Connection accessories

Cage terminals

- Set of 4 terminals for cables
  2 x 240 mm² (rigid) or 2 x 185 mm² (flexible) Cu/Al Cat.No 0 262 69
- Set of 4 terminals for cables
  4 x 240 mm² (rigid) or 4 x 185 mm² (flexible) Cu/Al Cat.No 0 262 70

Type of cage terminal	Cable standard suggested cross section (mm²)*		
	In(A)	Copper	Aluminium
Standard Cat.No 0 262 69	500	2 x 150 mm²	2 x 240 mm²
	630	2 x 185 mm²	-
	800	2 x 240 mm²	
	1000	-	
	1250		
	1600		
High capacity Cat.No 0 262 70	500	2 x 150 mm²	2 x 240 mm²
	630	2 x 185 mm²	3 x 240 mm²
	800	2 x 240 mm²	3 x 240 mm²
	1000	4 x 150 mm²	4 x 240 mm²
	1250	4 x 185 mm²	-
	1600	4 x 240 mm²	-

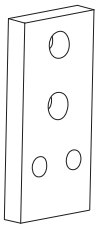
*The suggested cross section are in compliance with standard IEC 60947-1 (ed. 6 - 2020/04) and IEC 60947-2 (ed. 5.1 - 2019/07)

Type of cage terminal	Dimensions limits of cable for cage terminals			
	Minimum (mm²)		Maximum (mm²)	
	Flexible	Rigid	Flexible	Rigid
Standard Cat.No 0 262 69	95	70	185	240
High capacity Cat.No 0 262 70				

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.

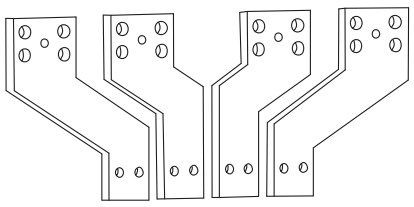
Extended front terminals

- Short terminals for
  500 - 1250 A (2 bars max. per pole) Cat.No 0 262 67
- Long terminals for
  1600 A (3 bars max. per pole) Cat.No 0 262 68



Spreaders(incoming or outgoing):

- Set of 3 (incoming or outgoing 3P) Cat.No 0 262 73
- Set of 4 (incoming or outgoing4P) Cat.No 0 262 74



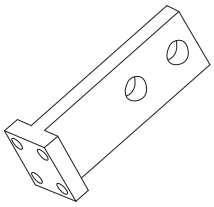
7. EQUIPMENTS AND ACCESSORIES *(continued)*

7.7 Connection accessories *(continued)*

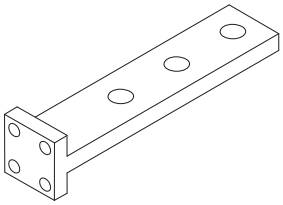
Rear terminals (incoming or outgoing:

There are used to convert the fixed version with front terminals into the fixed version with rear terminals:

- Set of swivel terminals, incoming or outgoing (3P) Cat.No 0 263 80
- Set of swivel terminals, incoming or outgoing (4P) Cat.No 0 263 82



- Set of flat rear terminals, incoming or outgoing (3P) Cat.No 0 263 81
- Set of flat rear terminals, incoming or outgoing (4P) Cat.No 0 263 83



7.8 Draw-out version

A DPX³ draw-out version is a plug-in DPX³ fitted with a "Debro-lift" mechanism which can be used to withdraw the DPX³ while keeping it on its base.

"Debro-lift" mechanism
To be fitted on a DPX³ 1600 fixed version in order to obtain the movable part of a draw-out circuit breaker.

Mobile part for draw-out version available
- For 3P Cat.No 4 225 93
- For 4P Cat.No 4 225 94

Key lock for "Debro-lift" mechanism
- Mechanical support for locking 1 DPX³ only Cat.No 4 228 10
- Mechanical support for locking motor driven DPX³ or DPX³ equipped with rotary handle Cat.No 4 228 09

Cat.Nos 4 228 09 and 4 228 10 must be used with universal keylocks toget the complete locking kit for draw-out version.

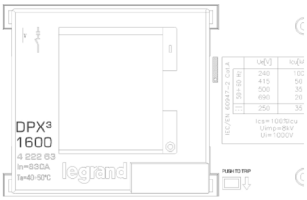
Accessories for "Debro-lift" mechanism
- Signalling contact (plugged-in/draw-out) Cat.No 0 265 74
- Handle for drawing-out Cat.No 0 265 75
- Set of connectors (8 contacts) Cat.No 0 263 99
- Set of connectors (6 contacts) Cat.No 0 263 19
- Support plate for draw-out version Cat.No 4 225 95
- Automatic auxiliary contacts (12 pin) for draw-out version Cat.No 4 222 30

Plate for transfer switches (factory assembled)
A transfer switch plate is composed of one plate with interlock for 2 devices.
- Plate for breaker or trip-free switch fixed version Cat.No 0 264 10
- Plate for breaker or trip-free switch plug-in and draw-out version Cat.No 0 264 05

8. MARKING

Our products (borh circuit breakers and switch disconnectors) are provided with labelling in full conformity to the referred standard and directives requirements by laser or sticker labels as:

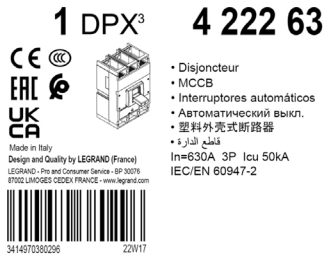
Product laser label on front
- Manufacturer
- Denomination, type product, code
- Standard conformity
- Standard characteristics declared
- Coloured identification of Icu at 415V



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

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

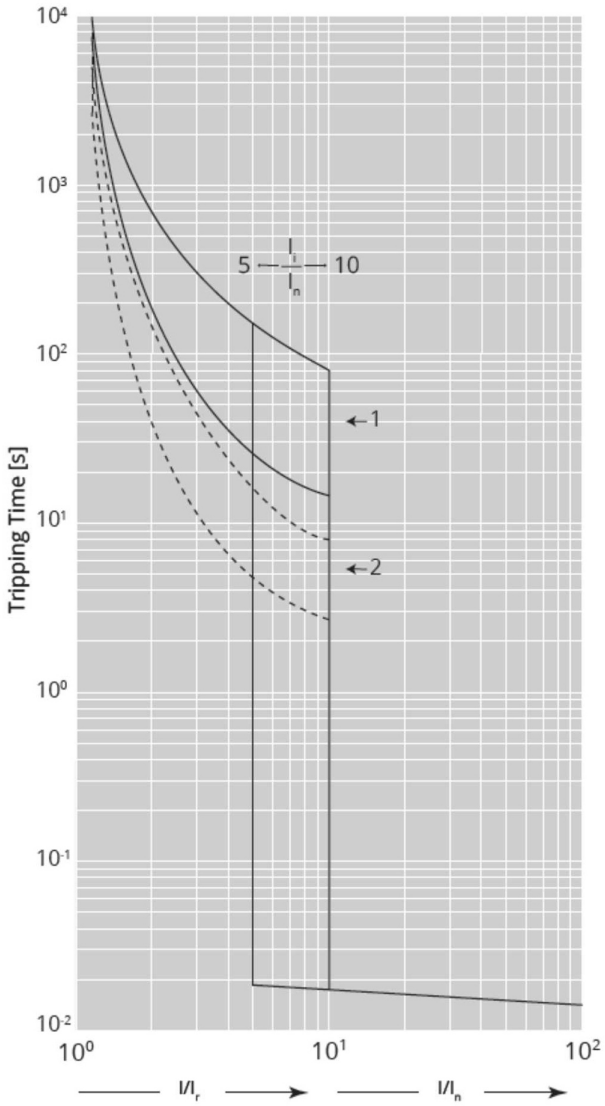
Packaging sticker label
- Manufacturer responsible
- Denomination and type product
- Standard conformity
- Mark/Licence (if any)
- Directive requirements
- Bar code identification product



9. CURVES

9.1 Tripping curve

Update: 02/07/2018



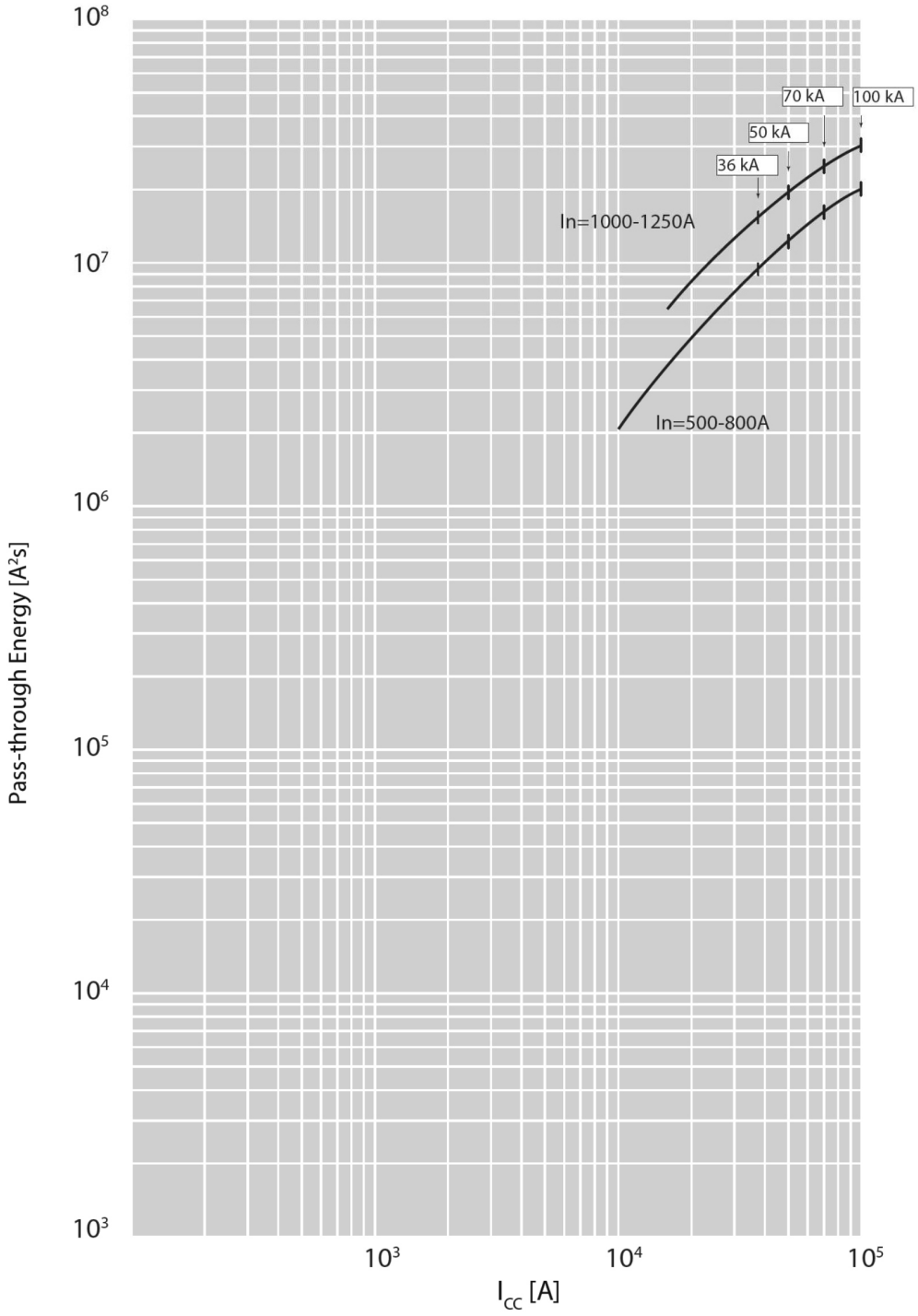
IIcu = 36-50-70-100 kA Imax = 1600 A 3P/4P Ue = 415 V~ (IEC/EN 60947-2)

Value	Description
t	Time
I	Current
Ir	Long time setting current
tr	Long time delay
Isd	Short time setting current
tsd	Short time delay
I_i	Instantaneous release
Icu	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 Isd; 20% up to Ii

9. CURVES *(continued)*

9.2 Pass-through specific energy characteristic curve

Update: 03/07/2018



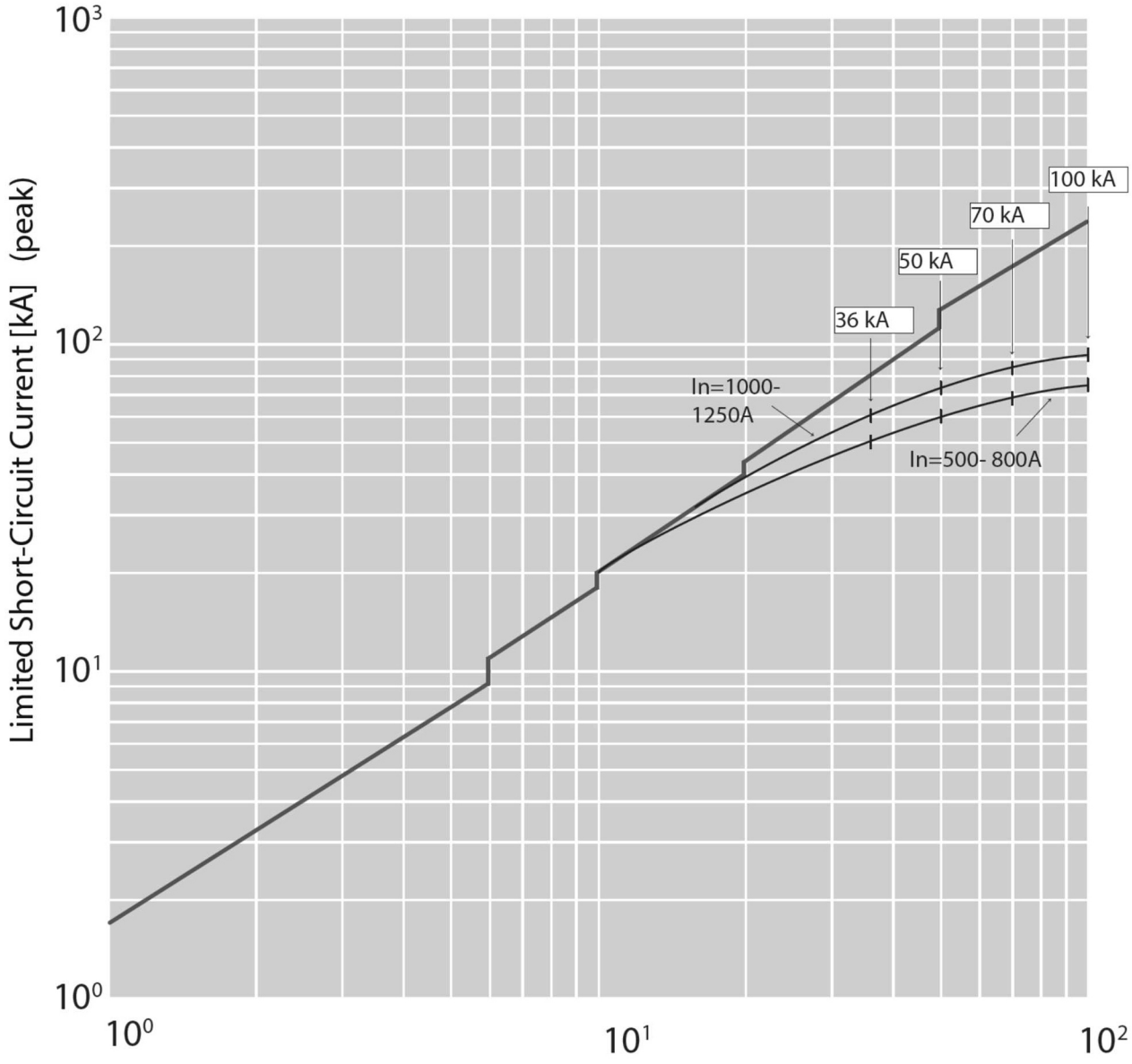
Icu = 36-50-70-100 kA Imax = 1600 A 3P/4P Ue = 415 V~ (IEC/EN 60947-2)

Value	Description
Icc	short circuit current
I^2t (A2s)	pass-through specific energy

9. CURVES *(continued)*

9.3 Cut-off peak current characteristic curve (kA)

Update: 02/07/2018



Icu = 36-50-70-100 kA Imax = 1600 A 3P/4P Ue = 415 V~ (IEC/EN 60947-2)

Fixed Instantaneous override I_{sf} = 5kA

Value	Description
Icc	Estimated short circuit symmetrical current (RMS value)
Ip	Maximum short circuit peak current
Maximum prospective	Short circuit peak current corresponding at the power factor
Maximum real peak	Short circuit current

10. STANDARDS AND REGULATIONS

DPX³ range of product concerning circuit-breakers exceed compliance with the IEC/EN standard 60947-2.

Certification by IECEE CB-scheme or LOVAG Compliance scheme, marks as CCC (China), EAC (Eurasian Federation) or different local certification are available.

DPX³ are in conformity with the Lloyds Shipping Register, RINA and Bureau Veritas Marine.

They respect the European Directives:

RoHS: Compliance with the 2011/65/EU Directive (RoHS), as modified by the 2015/863/EU Delegated Di-rective, 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 Regula-tion (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 sub-stance 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 envi-ronmental 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.

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

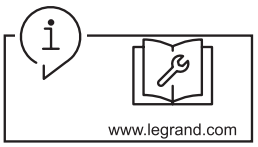
For specific information, please contact Legrand support.

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: all mounting information, 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.