La legrand®

DPX³ 630 electronic circuit breakers

87045 LIMOGES Cedex

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Reference(s) : from 4 220 56 to 4 220 95;

from 4 220 96 to 4 221 35; from 4 221 36 to 4 221 75; from 4 221 76 to 4 222 15;

from 4 224 98 to 4 225 37;

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1. USE

DPX³ platform, for premium segment, is able to cover extended ranges in terms of breaking capacities and rated currents, make protection suitable for different levels of power involved in installations.

DPX³ platform provide easy assembly procedures during the phase of installation and mounting of accessories, suitable for professional use.

2. RANGE

		1		2	\$7±m	0.0501170		a	Sa + m	0.000	
	36	μA	36	λ <u>κ</u> Δ	32 + 111		36	ν <u>β</u> ikΔ	36kA		
1 (A)	20	40	20	AD //D	20	40	20	40	20	A /D	
In (A)	3F 422400	47	42205.0	47	422000	47	422120	47	422476	46	
250	422498	422503	422056	422061	422096	422101	422130	422141	422176	422181	
320	422499	422504	422057	422062	422097	422102	422137	422142	422177	422182	
400	422500	422505	422058	422063	422098	422103	422138	422143	422178	422183	
500	422501	422506	422059	422064	422099	422104	422139	422144	422179	422184	
630	422502	422507	422060	422065	422100	422105	422140	422145	422180	422185	
	50	KA	50	KA	50	KA	50	KA	50	KA	
I _n (A)	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	
250	422508	422513	422066	422071	422106	422111	422146	422151	422186	422191	
320	422509	422514	422067	422072	422107	422112	422147	422152	422187	422192	
400	422510	422515	422068	422073	422108	422113	422148	422153	422188	422193	
500	422511	422516	422069	422074	422109	422114	422149	422154	422189	422194	
630	422512	422517	422070	422075	422110	422115	422150	422155	422190	422195	
	70	lkA 📃	70	70kA		70kA		70kA		70kA	
In(A)	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	
250	422518	422523	422076	422081	422116	422121	422156	422161	422196	422201	
320	422519	422524	422077	422082	422117	422122	422157	422162	422197	422202	
400	422520	422525	422078	422083	422118	422123	422158	422163	422198	422203	
500	422521	422526	422079	422084	422119	422124	422159	422164	422199	422204	
630	422522	422527	422080	422085	422120	422125	422160	422165	422200	422205	
	10	OkA	100	0kA	10	100kA 100kA		OkA	100k/		
In(A)	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	
250	422528	422533	422086	422091	422126	422131	422166	422171	422206	422211	
320	422529	422534	422087	422092	422127	422132	422167	422172	422207	422212	
400	422530	422535	422088	422093	422128	422133	422168	422173	422208	422213	
500	422531	422536	422089	422094	422129	422134	422169	422174	422209	422214	
630	422532	422537	422090	422095	422130	422135	422170	422175	422210	422215	
	-										

3. DIMENSIONS AND WEIGHTS

3.1 Dimensions

Implantation





Fixed version, with front terminals



Fixed version, with flat rear terminal



Reference(s) : from 4 220 56 to 4 220 95; from 4 220 96 to 4 221 35; from 4 221 36 to 4 221 75; from 4 221 76 to 4 222 15; from 4 224 98 to 4 225 37;

Plug-in version, with cage terminals



Plug-in version, without front terminals



Draw-out version, flat rear terminals



Draw-out version with sliding auxiliary contacts







Motor operator for general purpose operations (direct action type)



3.2 Weights

	Weights (Kg)						
Grafianation	3	Р	4P				
Configuration	I _n ≤ 400A	I _n ≥ 500A	I _n ≤ 400A	I _n ≥ 500A			
Circuit breaker (fixed version)	5.80	6.20	7.30	7.80			
Plug-in (with front terminals)*	3.35	3.35	4.29	4.29			
Plug-in (with rear terminals)*	3.55	3.55	4.79	4.79			
Draw-out *	2.3	2.3	5.5	5.5			
* to add to fixed version							

4. OVERVIEW

- 4.1 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)

5. ELECTRICAL CONNECTIONS

5.1 Mounting possibilities

- On plate:
- Vertical
- Horizontal
- Supply invertor type

Reference(s) : from 4 220 56 to 4 220 95; from 4 220 96 to 4 221 35; from 4 221 36 to 4 221 75; from 4 221 76 to 4 222 15; from 4 224 98 to 4 225 37;

Cables:

5.2 Mounting

(see instruction sheet for detailed mounting procedures)



Busbars/cable lugs:











0 262 50





Technical sheet: F01959EN/03

Update: 03/11/2023

6. ELECTRICAL AND MECHANICAL CHARACTERISTICS

Circuit breaker

Circuit Brooker	DPX ³ 630 F/N/H/L			
	(36kA, 50kA, 70kA, 100kA)			
Rated current (A)	250, 320, 400, 500, 630			
Poles	3 - 4			
Pole pitch (mm)	42			
Rated insulation voltage (50/60Hz) U _I (V)	800			
Rated operating voltage (50/60Hz) U _e (V)	690			
Rated impulse withstand current U _{Imp}	8			
Rated frequency (Hz)	50 - 60			
Operating temperature (°C)	-25 ÷ 70			
Mechanical endurance (cycles)	20000			
Mechanical endurance with motor control	10000			
Electrical endurance at In (cycles)	4000			
Electrical endurance at 0.5 In (cycles)	8000			
Utilization category	B (I _n ≤ 400A); A (I _n ≥ 500A)			
Suitable for isolation	Yes			
Type of protection	Electronic			
Electronic trip S1	Yes			
Electronic trip S2	Yes			
Electronic trip Sg	Yes			
Thermal adjustment I _r	(0.4 ÷1) x I _n			
Magnetic adjustment I _{sd} (A)	(1.5 ÷ 10) x l _r			
Neutral protection for 4P (%I _{th} of phase	0 - 50 - 100 - 150 - 200			
pole)				
Dimensions (W x H x D) (mm)	140 x 260 x 105 (3P)			
	183 x 260 x 105 (4P)			
Maximum weight for fixed version (kg)	6.20 (3P)			
maximum weight for fixed version (kg)	7.80 (4P)			

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.

Reference(s) :						
from 4 220 56 to 4 220 95;						
from 4 220 96 to 4 221 35;						
from 4 221 36 to 4 221 75;						
from 4 221 76 to 4 222 15;						
from 4 224 98 to 4 225 37						

General remarks on protection unit

The protection units S1/S2/Sg 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, display indications(*) and diagnostic functions (e.g. trip test).

(*)Display backlight and integrated measure (if available) are instead guaranteed starting from 20% of the maximum power (35% of In for single phase load), in absence of any other supply. In any case the external power supply is strongly recommended for the correct working of measurement, as well as RS485 communication.

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, one of the following optional power supplies can be used:

- (*)external Auxiliary power supplier or, alternatively, Modbus communication interface.
- (*)power supply temporarily connected to frontal USB socket, connected to a 5V DC power bank or PC.
- (**)power supply temporarily connected to frontal Service port, connected to specific adapter for PC (Legrand use only)

(*) available only for S2/Sg versions

(**) available only for S1 versions

In the electronic unit protection type S2/Sg, an energy metering central unit, if available, is integrated.

The possible parameters that can be measured are listed in the following table:

Measured	UNIT	DESCRIPTION
I ₁	Α	L1 realtime measured value
I ₂	Α	L2 realtime measured value
l ₃	Α	L3 realtime measured value
I _N (4P)	Α	N realtime measured value
ا _G	Α	G realtime measured value
U ₁₂ U ₂₃ U ₃₁ (3P)	V	Phase to Phase Voltage
V ₁₂ V ₂₃ V ₃₁ (4P)	V	Voltage
Freq.	Hz	Frequency
P _{Tot}	kW	Active Power
Q _{Tot}	kvar	Reactive Power
PF		Power Factor
$E_p \downarrow$	kWh	Consumed active energy
E _p ↑	kWh	Returned active energy
$E_q \downarrow$	kvar h	Consumed reactive energy
Eq↑	Kvar h	Returned reactive energy
THDU ₁₂ /THDU ₂₃ /THDU ₃₁ (3P)	%	Chained Voltage THD
THDV _{1N} /THDV _{2N} /THDV _{3N} (4P)	%	Voltage THD
THDI ₁ /THDI ₂ /THDI ₃ /THDI _N	%	Current THD
MEM	A - °C	Cause of the last intervention and its value

Reference(s) : from 4 220 56 to 4 220 95; from 4 220 96 to 4 221 35; from 4 221 36 to 4 221 75; from 4 221 76 to 4 222 15; from 4 224 98 to 4 225 37;

Function performance class according to IEC 61557-12

Function symbol	Performance class		Measurement range				Other complementary characteristics				
			1	OPX ³ 630/	0PX ³ 630A			I _{max} PMD			
I _n		250A	320A	400A	500A	630A	250A	320A	400A	500A	630A
D	2	0.3kW	0.3kW	0.3kW	0.3kW	0.3kW	300A	380A	480A	600A	750A
r	2	360kW	460kW	580kW	720kW	900kW		I _b =250A	, U _n =400V,	f _n =50Hz	
04.0	2	0.6kvar	0.6kvar	0.6kvar	0.6kvar	0.6kvar	300A	380A	480A	600A	750A
ųΑ, ų _ν	2	360kvar	460kvar	580kvar	720kvar	900kvar		I _b =250A	, U _n =400V,	f _n =50Hz	
-	2		0	000 CW	/h		300A	380A	480A	600A	750A
Ea	2		0999 GW/h					I _b =250A	, U _n =400V,	f _n =50Hz	
E-A E	2		0	000 CW	/h		300A	380A	480A	600A	750A
era, e _{rv}	2		0	999 GW	'n		I _b =250A, U _n =400V, f _n =50Hz				
f	0.02			5060 Hz							
		12.5A	12.5A	12.5A	12.5A	12.5A	300A	380A	480A	600A	750A
	2	300A	380A	480A	600A	750A	I _b =250A, U _n =400V, f _n =50Hz				
	2	12.5A	12.5A	12.5A	12.5A	12.5A	300A	380A	480A	600A	750A
I _N	2	300A	380A	480A	600A	750A		I _b =250A	, U _n =400V,	f _n =50Hz	
U	0.05			88690V					-		
D	0.05							380A	480A	600A	750A
PFA	0.05		-					I _b =250A	, U _n =400V,	f _n =50Hz	
THDu	5		110690V -								
тно	5	250A	250A	250A	250A	250A					
ιπυ _i	, ,	250A	320A	400A	500A	630A			-		

6.1 Main parts constituting the circuit breaker



6.2 Breaking capacity (kA)

		Breaking capacity (kA) & I _{cs}							
			3P-	-4P					
	U _e /I _{cu} (I _{cu} letter)	36kA (F)	50kA (N)	70kA (H)	100kA (L)				
	220/240 V AC	70	100	105	150				
	380/415 V AC	36	50	70	100				
	440/460 V AC	30	40	60	70				
	480/500 V AC	25	30	40	50				
IEC 60947-2	480/550 V AC	20	22	25	28				
	600 V AC	20	22	25	28				
	690V AC	14	18	20	22				
	I _{cs} (% I _{cu})	100	100	100	70				
	Rated making capacity under short circuit I _{cm}								
	I _{cm} (kA) at 415V	76.5	105	154	220				
	220/240 V AC	70	100	105	150				
NEMA AB-1	480/500 V AC	25	30	40	50				
	690 V AC	14	18	20	22				

6.3 Rated current (In) at 40°C / 50°C

	Phases limit trip current									
	therm	nal (I _r)	magnetic (I _i)							
I _n (A)	0.4 x I _n	1 x I _n	1.5 x I _r	10 x I _r						
250	100	250	375	2500						
320	128	320	480	3200						
400	160	400	600	4000						
500	200	500	750	5000						
630	252	630	945	6300						

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

6.3 Load operations

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

Reference(s) : from 4 220 56 to 4 220 95; from 4 220 96 to 4 221 35; from 4 221 36 to 4 221 75; from 4 221 76 to 4 222 15; from 4 224 98 to 4 225 37;

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

		Power losses per pole (W) In (A)										
	2	250	320		400		500		630			
	Phase	Neutral	Phase	Neutral	Phase	Neutral	Phase	Neutral	Phase	Neutral		
Cage terminals	7.5	7.5	12.3	12.3	19.2	19.2	22.1	22.1	35.0	35.0		
Lugs	7.5	7.5	12.3	12.3	19.2	19.2	22.1	22.1	35.0	35.0		
External lugs	8.2	8.2	13.5	13.5	21.1	21.1	25.1	25.1	39.8	39.8		
Spreaders	9.0	9.0	14.7	14.7	22.9	22.9	26.7	26.7	42.3	42.3		
Rear terminals	8.7	8.7	14.2	14.2	22.3	22.3	26.9	26.9	42.7	42.7		
Plugin version	15.0	15.0	24.7	24.7	38.5	38.5	52.3	52.3	83.0	83.0		
Circuit breaker + RCD	10.6	10.6	17.4	17.4	27.2	27.2	34.6	34.6	54.9	54.9		

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.

6.6 DERATINGS

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)	up to 50	60	70
250	250	250	250
320	320	320	320
400	400	360	340
500	500	500	500
630	630	567	536

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.

Electromagnetic disturbances (EMC)

for DPX³ 630 circuit breakers, according to IEC/EN 60947-2 Annex F

Pollution degree

for DPX³ 630 circuit breakers, degree 3, according to IEC/EN 60947-2

6.6.3 Altitude

Altitude derating for DPX³ and DPX³-I

Altitude (m)	2000	3000	4000	5000
U _e (V)	690	590	520	460
$I_n(A)(T_a = 40^{\circ}C/50^{\circ}C)$	1 x I _n	0.98 x I _n	0.93 x I _n	0.9 x I _n

Reference(s) : from 4 220 56 to 4 220 95; from 4 220 96 to 4 221 35; from 4 221 36 to 4 221 75; from 4 221 76 to 4 222 15; from 4 224 98 to 4 225 37;

7. CONFORMITY

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

Marks as CCC (China), EAC (Eurasian Federation) or different local certification are available.

DMX³ are in conformity with the Lloyds Shipping Register, RINA and Bureau Veritas Marine.

DMX³ respect the European Directives REACh, RoHS, RAEE and Product Environment Product (PEP Ecopassport) are available.

For specific information, please contact Legrand support.

7.1 Marking

Product (borh circuit breakers anc 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 responsible
- -Denomination, type product, code
- -Standard conformity



-Standard characteristics declared -coloured identification of I_{cu} at 415V

Knobs version (S1 type)



Display version (S2/Sg type)



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





8. EQUIPMENTS AND ACCESSORIES

8.1 Earth leakage modules

Earth leakage characteristics for DPX ³ 630			
	Standard	with Led	
Туре	A - S	A - S	
Uninterrupted nominal current I _u (A)	up to 630	up to 630	
Rated isolated voltage U _i (V AC)	500	500	
Rated operating voltage U_e (V AC) (50-60Hz)	500	500	
Operating voltage (V AC) (50-60Hz)	230 ÷ 500	110 ÷ 500	
Nominal frequency (Hz)	50 - 60	50 - 60	
Operating temperature (°C)	-25 ÷ 70	-25 ÷ 70	
Trip	electronic	electronic	
Earth leakage time adjustments (s)	0 - 0.3 - 1 - 3	0 - 0.3 - 1 - 3	
Earth leakage breaking capacity I_{dm} (% I_{cu})	60	60	
Earth leakage protection adjustments $I_{\Delta n}$ (A)	0.03 ÷ 3	0.03 ÷ 3	
Side-by-side mounting	no	no	
Underneath mounting	yes	yes	
50% Earth fault detection contact I _{dn}	no	yes	
Clip on rail DIN 35	no	no	
Dimensions (W x H x D) (mm) for 4P	183 x 152 x 105	183 x 152 x 106	

(Power losses, see par. 5.4)

Standard		
In = 400A	3P	ref. 0 260 60
	4P	ref. 0 260 61
In = 630A	3P	ref. 0 260 64
	4P	ref. 0 260 65
LED version		
400A	4P	ref. 0 260 63
630A	4P	ref. 0 260 67

8.2 Releases (for DPX³ 630 / DPX³ 1600)

 shunt releases with voltage: 	
24 Vac and dc	ref. 4 222 39
48 Vac and dc	ref. 4 222 40
110÷130 Vac and dc	ref. 4 222 41
220÷250 Vac and dc	ref. 4 222 42
380÷440 Vac and dc	ref. 4 222 43

Shunt releases electrical characteristics		
Rated voltage (U _c)	Both ac and dc: 24V/48V/110÷130V/220÷250V/380÷440V	
Voltage range (%U _c)	70÷110	
Intervention time (ms)	≤ 50	
Power consumption (W/VA)	300	
Minimum opening time (ms)	50 ms	
Insulation voltage (kV)	2.5	

undervoltage releases with voltage:

.	•
24 V dc	ref. 4 222 44
24 V ac	ref. 4 222 45
48 V dc	ref. 4 222 46
110 - 125 V ac	ref. 4 222 47
220 - 240 V ac	ref. 4 222 48
380 - 415 V ac	ref. 4 222 49

Undervoltage relases electrical characteristics		
Pater de altra a (11.)	ac: 24V/110÷125V/220÷240V/380÷415V	
Rated voltage (U _c)	dc: 24V/48V	
Voltage range (%U _c)	85 ÷ 110	
Minimum opening time (ms)	50	
Power consumption (W/VA)	1.6/5	

Reference(s) :	
from 4 220 56 to 4 220 95;	
from 4 220 96 to 4 221 35;	
from 4 221 36 to 4 221 75;	
from 4 221 76 to 4 222 15;	
from 4 224 98 to 4 225 37:	

 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
Universal Release (to be equipped with a time-lag module 0 261 90/91)	ref. 4 226 23

8.3 Auxiliary contacts (for DPX³ 630 / DPX³ 1600)

Changeover switch 3A – 250 VAC

ref. 4 210 11

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

Auxiliary contact (standard) oc 0 CTR 0

Fault signal

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

Configurations:

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DPX<sup>3</sup> 630 \rightarrow 2 auxiliary contacts + 1 fault signal + 1 release
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To get more information on auxiliary mounting procedures, please refer to product instruction sheet.

8.4 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

PX ³ 630 electronic c	ircui	t bre	aker	S	
8.4 Rotary handles					
 Standard (black) 			rei	f. 0 262 4	
 For emergency use (red / yellow) adapting on standard handle 	1		ret	. 4 222 38	
Vari-depth handle IP55 (with auxiliar) Standard (black)	v option	<i>)</i>	rei	f. 0 262 8	
 For emergency use (red / yellow) adapting on standard handle)		ret	. <i>0 262 82</i>	
Locking accessories (for vary-depth Key lock accessory for vari-depth	<i>handle</i> i n rotary	<i>with aux</i> handle	riliary op ref.	otion) 4 228 07	
Ref. 4 238 07 must be used with univ locking kit for rotary handle	versal ko	eylocks	to get ti	he comple	
ocking accessories (for direct hand	(a)				
Key barrel and flat key	0)		ref.	0 262 25	
Direct on DPX ³ (no auxiliary option a	nd door	defeat	function)	
 Standard (black) For emergency use (red / yellow) adapting on standard handle)		ref.	4 201 62	
Vari-depth handle IP55 (no auxiliarv	option a	and doo	r defeai	t function)	
Standard (black)			ref.	4 201 63	
For emergency use (red / yellow)adapting on standard handleref. 4.2					
3.5 Motor operators (front operat	ed)				
For general purpose operations (dire	ct actio	n type):			
230 V ac			ref.	4 226 30	
For synchronized operations (energy	storadi	e tvne).			
24 V ac and dc	eter agt	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ref.	0 261 40	
48 V ac and dc230 V ac			ref. ref.	0 261 41 0 261 42	
	1				
Turno	LG-4	226 30 t drivo	LG-0 261	40-41-44	
Rated operating voltage (II) - AC	230V AC	50-60 Hz	24 - 49	Storage 3 - 230	
Rated operating voltage (U.) - DC	230V AC	50-60 Hz	24 - 48 - 230		
Voltage range (%Uc)	85÷	-110	85÷	110	
	Opening	Closing	Opening	Closing	
Pick-up consumption (W / VA)	240	200	300	300	
Hold consumption (W / A)	80	120	300	300	
Operating time / complete electric operation (ms)	450	550	2000	100	
Mechanical endurance (O_C cyclos) @L = 620A	2/0	<u>000</u>	ll/d	11/d /a	
Electrical endurance ($O \in cycles$) $@I_n = 030A$	10	100	10	00	
Lieutitai endurance (U-C cycles) @1 _n = 630A	4U jinto & a	utomatic	40		
Cycles / minutes	open/close	operations	10	4	

Locking accessories

Key lock accessory for motor operator •

ref. 4 228 06

Ref. 4 228 06 must be used with universal keylocks to get the complete locking kit for motor operator

Reference(s) : from 4 220 56 to 4 220 95; from 4 220 96 to 4 221 35; from 4 221 36 to 4 221 75;

from 4 221 76 to 4 222 15;

from 4 224 98 to 4 225 37;

8.6 Mechanical accessories

Padlock (for l	Padlock (for locking in "OPEN" position)			
 Insulated ship 	Insulated shields (phase insulators)			
• Sealable term o o	ninal shields: Set of 2 (for 3P) Set of 3 (for 4P)	ref. 0 262 44 ref. 0 262 45		
• Terminal cov o	ers to guarantee IP20: Set of 2 (for 3P) Set of 3 (for 4P)	ref. 0 262 34 ref. 0 262 35		

8.7 Connection accessories

Cogo torminalo

 Set of 4 terminals for cables 300 mm² max (rigid) or 240 mm² max (flexible) Cu/Al 	ref. 0 262 50
 Set of 4 high-capacity terminals for cables 2x240 mm² max (rigid) or 2x185 mm² max (flexible) Cι 	<i>ref. 0 262 51</i> ı/Al
<i>Extended front terminals</i>Set of 4	ref. 0 262 47
 Spreaders (incoming or outcoming): Set of 2 (for 3P) Set of 3 (for 4P) 	ref. 0 262 48 ref. 0 262 49
<i>Rear terminals (incoming or outcoming):</i> (used to convert the fixed version with front terminal version with rear terminals)	als into the fixed
for 3Pfor 4P	ref. 0 263 52 ref. 0 263 53
<i>Adaptor for lug</i> (for connecting bare cables with lugs)	
 Set of 4 adaptors + insulated shields 	ref. 0 262 46

8.8 Plug-in version

(A plug-in is a DPX³ fitted with special terminals and mounted on a plugin base)

Special terminals for plug-in / draw-out base (for incoming and outcoming terminals)

•	Set of 6 terminals (3P)	ref. 4 222 20
•	Set of 8 terminals (4P)	ref. 4 222 21

Bases

(accept DPX³/DPX³-I fitted with special terminals)

•	Front terminal mounting base for 3P	ref. 4 222 22
•	Front terminal mounting base for 4P	ref. 4 222 23
•	Flat rear terminal mounting base for 3P	ref. 4 222 24
•	Flat rear terminal mounting base for 4P	ref. 4 222 25

Bases for breakers with mounted earth leakage module

•	Front terminal mounting base for 4P	ref. 4 222 26
•	Flat rear terminal mounting base for 4P	ref. 4 222 27

Accessories

Set of 2 extractor handle ref. 4 222 28 • • Set of connectors (24-pin) ref. 4 222 29

) electronic circuit break	ore	Reference(s) :				
DI A' USU Electronic circuit breakers			from 4 220 56 to 4 220 95;				
			from 4 220 96 to 4 221 35;				
			from 4 221 36 to 4 221 75;				
			from 4 221 76 to 4 222 15:				
			from 4 224 98 to 4 225 37				
8.9 Draw-out	version		MODBUS communication				
(A DPX ³ draw mechanism wh its base)	r-out version is a plug-in DPX ³ fitted with nich can be used to withdraw the DPX ³ whi	n a "Debro-lift" le keeping it on	RS485 MODBUS communication interface	ref. 4 210 75			
"Debro-lift" me (supplied with	chanism a rigid slide and handle for drawing-out)		Is used for sharing on MODBUS network all informat DPX ³ electronic circuit breakers S2/Sg with / withou module and with / without energy metering central unit.	ion managed by it earth leakage			
 For base of 	nnly (3P)	ref 4 222 31					
 For base of For base v 	vith earth leakage module (4P)	ref. 4 222 32 ref. 4 222 33	- USB local PC connection				
Kevlock for "D	ebro-liff" mechanism		- Enclosure: 1 DIN modules				
One key for	or DPX ³ only		- MODBUS address configuration / transn	nission mode /			
(enable locking	g in draw - out position)		transmission speed by physic configurators				
 Key lock a 	ccessory for draw-out		- Output relay (220V – 0,2A): to signal tripped	position			
(frontal ma	sks for motor operator or rotary handle)	ref. 4 228 08	Consumption: 90mA				
 Key lock a 	ccessory for draw-out	ref. 4 228 10	It is possible to connect only one breaker to the interfac	ce.			
Ref 1 222 02	and 4 228 10 must be used with universal	kevlocks to got					
the complete l	and 4 220 To must be used with universar	Keylocks lo gel	In case of use of MODBUS interface 4 210 75, the extern	nal power supply			
			module 4 210 83 is not necessary because the ex	ternal power is			
Accessories fo	or "Debro-lift" mechanism		already provided by the MODBUS module				
Signalling	contact (plugged-in / draw-out)	ref. 0 265 74	Mah sonvor				
 Handle for 	drawing - out	ref. 0 265 75	Web Server				
Auxilian contr	acte		For remote viewing of values collected on electric	ity meters and			
Auxiliary conta Automatic	auxiliary contacts for draw-out version	ref 4 222 30	multi-function measuring units				
(up to 2 contac	ts by DPX^3)	101. 4 222 00	32 metering points	ref. 0 261 78			
(Unlimited metering points	ref. 0 261 79			
<i>Plate for trans.</i> (A transfer sw devices)	<i>fer switches</i> (<i>factory assembled</i>) itch plate is composed of one plate with	interlock for 2	 Software To display values collected on electricity meters a 	nd multi-			
 Plate for b 	reaker or trip-free switch fixed version	ref 0.264.09	function measuring units on a PC connected to the	e network			
 Plate for b 	reaker or trip-free switch plug-in and	ref. 0 264 04	32 metering points	ref. 0 261 88			
draw-out v	ersion		Unlimited metering points	ret. 0 261 89			
			Touch screen				
8.10 Specific	accessories for electronic version						
-			 To show data collected by DX³, DPX³, DMX³, EMI manage up to 8 deviace 	DX ³ . It can			
Auxiliary powe	er supply		manage up to 8 devices	Tel. 0 201 50			
 For supply 	ing electronic units	ref. 4 210 83					
Is used to sup earth leakage It is mandatory and not interco requested) to o	ply DPX ³ electronic circuit breakers S2/Sg module and with / without energy metering y in case of electronic breakers with integ onnected in a supervision system (MODBI correctly manage the measure functions	g with / without g central unit. rated measure JS network not					
Technical char	racteristics:						
- Inpu	t voltage: 24V ad/dc (+/- 10%)						
- Encl	losure: 2 DIN modules						
- Outp	out: up to 250mA (to supply many c	rcuit breakers					
acco	ording to the following table):						
-	DDV ³ 350 / 690 / 4600	[m A]					
4 210 03	UPA 200 / 030 / 1000						
		50					
l _{out} MAX = 250 mA	Electronic with power metering (S2/Sg)	62.5					
	Electronic with residual current protection (S2)	50					
	Electronic with residual current protection and power metering (S	2) 62.5					
According to s	ingle absorptions, it can be possible to con	nect more than					
one breaker							
			I				





Reference(s) : from 4 220 56 to 4 220 95; from 4 220 96 to 4 221 35; from 4 221 36 to 4 221 75; from 4 221 76 to 4 222 15; from 4 224 98 to 4 225 37;



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	
l²t = 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	

Technical sheet: F01959EN/03

Update: 03/11/2023









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	long time trip curve
	short time trip curve
Current tolerance	10% up to I _{sd} ; 20% up to I _i









Reference(s) : from 4 220 56 to 4 220 95; from 4 220 96 to 4 221 35; from 4 221 36 to 4 221 75; from 4 221 76 to 4 222 15;

A) Derating Temperature and configurations

		Ambient temperature									
		30 °C		40 °C		50 °C		60 °C		70 °C	
	Fixed version	I _{max} (A)	Ir / In	I _{max} (A)	I _r / I _n	I _{max} (A)	Ir / In	I _{max} (A)	Ir / In	I _{max} (A)	Ir / In
ed	Cage terminals, flexible cable	630	1	630	1	630	1	599	0.95	567	0.9
fix	Lugs, flexible cable	630	1	630	1	630	1	567	0.9	536	0.85
630	Lugs, rigid cable	630	1	630	1	630	1	599	0.95	567	0.9
×	Spreaders, flexible cable	630	1	630	1	630	1	536	0.85	504	0.8
DF	Rear flat staggered terminals, flexible cable	630	1	630	1	630	1	567	0.9	536	0.85
ed	Cage terminals, flexible cable + RCD	630	1	630	1	536	0.85	504	0.9	473	0.75
fix	Lugs, flexible cable + RCD	599	0.95	599	0.95	536	0.85	504	0.8	473	0.75
530	Lugs, rigid cable + RCD	630	1	599	0.95	536	0.85	504	0.8	473	0.75
×3	Staggered spreaders, flexible cable + RCD	630	1	630	1	536	0.85	504	0.8	473	0.75
P	Rear flat staggered terminals, flexible cable + RCD	630	1	630	1	536	0.85	504	0.8	473	0.75
Draw-out version		I _{max} (A)	Ir / In	I _{max} (A)	I _r / I _n	I _{max} (A)	Ir / In	I _{max} (A)	Ir / In	I _{max} (A)	Ir / In
	Cage terminals, flexible cable	599	0.95	567	0.9	536	0.85	504	0.8	441	0.7
R H	Cage terminals, rigid cable	599	0.95	567	0.9	536	0.85	504	0.8	441	0.7
x ³ 6 w-o	Rear flat terminals, flexible cable	599	0.95	567	0.9	536	0.85	504	0.8	441	0.7
da b	Rear flat terminals, rigid cable	599	0.95	567	0.9	536	0.85	504	0.8	441	0.7
	Rear flat terminals, Cu bars, vertical	599	0.95	567	0.9	536	0.85	504	0.8	441	0.7
	Cage terminals, flexible cable + RCD	504	0.8	441	0.7	410	0.65	378	0.6	347	0.5
o E ®	Cage terminals, rigid cable + RCD	504	0.8	441	0.7	410	0.65	378	0.6	347	0.5
X ³ 6 № -0 .RCI	Rear flat terminals, flexible cable + RCD	504	0.8	441	0.7	410	0.65	378	0.6	347	0.5
dra +	Rear flat terminals, rigid cable	504	0.8	441	0.7	410	0.65	378	0.6	347	0.5
	Rear flat terminals, Cu bars, vertical + RCD	504	0.8	441	0.7	410	0.65	378	0.6	347	0.5

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.