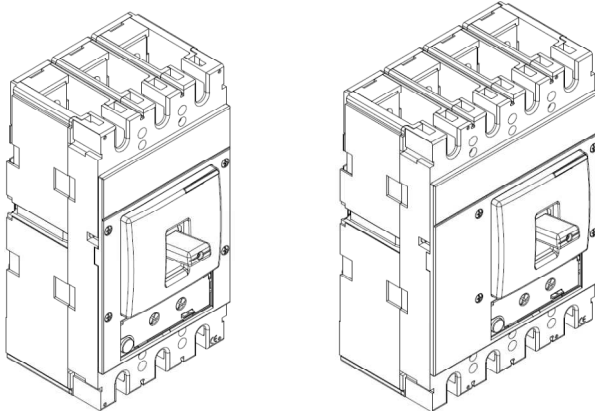


DPX³ 630
Thermal magnetic and trip-free switches
DPX³-I 630

Reference(s) : 422 000/ 001/ 002/ 003/ 004/ 005/ 006/ 007/ 008/ 009/ 010/ 011/ 012/ 013/ 014/ 015/ 016/ 017/ 018/ 019/ 020/ 021/ 022/ 023/ 024/ 025/ 026/ 027/ 028/ 029/ 030/ 031/ 032/ 033/ 034/ 035/ 036/ 037/ 038/ 039/ 040/ 041/ 042/ 043/ 044/ 045/ 046/ 047/ 048/ 049/ 050/ 051/ 052/ 053/ 054/ 055 & 422 216/ 217/ 218/ 219


CONTENTS

CONTENTS	PAGES
1. USE	1
2. RANGE	1
3. DIMENSIONS	1
4. OVERVIEW	2
5. ELECTRICAL AND MECHANICAL CHARACTERISTICS	2
6. CONFORMITY	4
7. EQUIPMENTS AND ACCESSORIES	4
8. CURVES	7

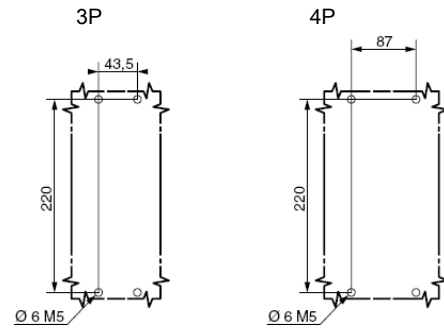
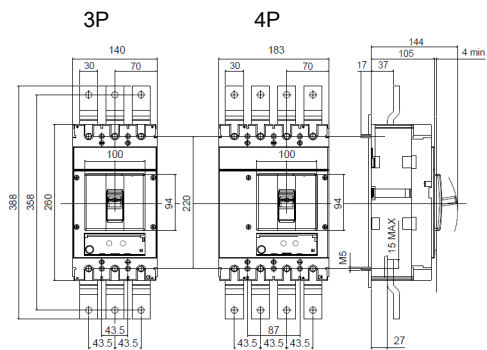
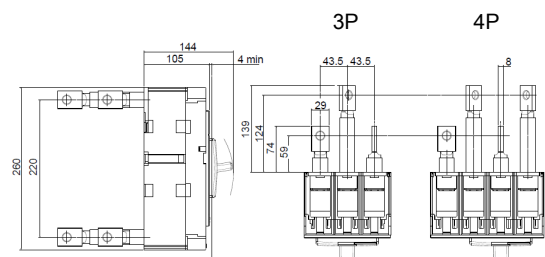
1. USE

DPX³ "moulded case" circuit breaker offers optimal solutions to answer to protection requirements of tertiary and industrial installations.

2. RANGE

I _n (A)	36 kA			50 kA		
	3P	4P	3P + N/2	3P	4P	3P + N/2
250	422000	422005	-	422014	422019	-
320	422001	422006	422010	422015	422020	422024
400	422002	422007	422011	422016	422021	422025
500	422003	422008	422012	422017	422022	422026
630	422004	422009	422013	422018	422023	422027
I _n (A)	70 kA			100 kA		
	3P	4P	3P + N/2	3P	4P	3P + N/2
250	422028	422033	-	422042	422047	-
320	422029	422034	422038	422043	422048	422052
400	422030	422035	422039	422044	422049	422053
500	422031	422036	422040	422045	422050	422054
630	422032	422037	422041	422046	422051	422055

I _n (A)	DPX ³ -I	
	3P	4P
250	-	-
320	-	-
400	422216	422218
500	-	-
630	422217	422219

3. DIMENSIONS
Implantation

Fixed version

Fixed version, flat rear terminal


DPX³ 630

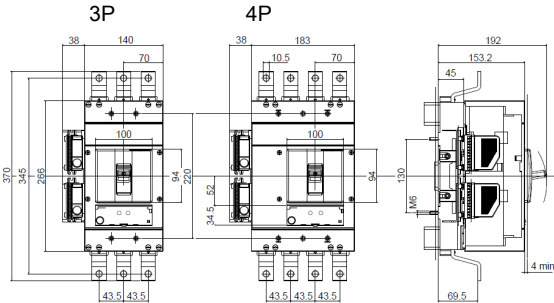
Thermal magnetic and trip-free switches

DPX³-I 630

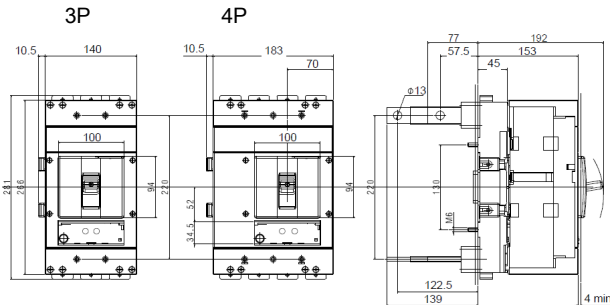
Reference(s) : 422 000/ 001/ 002/ 003/ 004/ 005/ 006/ 007/ 008/ 009/ 010/ 011/ 012/ 013/ 014/ 015/ 016/ 017/ 018/ 019/ 020/ 021/ 022/ 023/ 024/ 025/ 026/ 027/ 028/ 029/ 030/ 031/ 032/ 033/ 034/ 035/ 036/ 037/ 038/ 039/ 040/ 041/ 042/ 043/ 044/ 045/ 046/ 047/ 048/ 049/ 050/ 051/ 052/ 053/ 054/ 055 & 422 216/ 217/ 218/ 219

3. DIMENSIONS (NEXT)

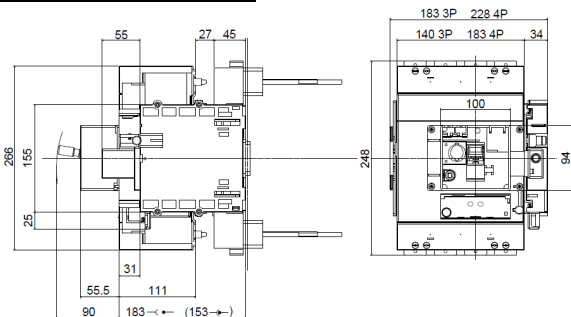
Plug-in version, with cage terminals



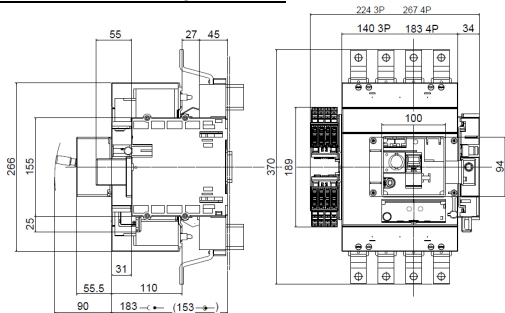
Plug-in version, without cage terminals



Draw-out version, rear terminals



Draw-out version with sliding terminals



4. OVERVIEW

4.1 Supplied

Supplied with

- fixing screws
- connection plates for bars (width 32mm max)
- phase insulators

4.2 Mounting possibilities

On plate:

- Vertical
- Horizontal
- Supply inverter type

5. ELECTRICAL AND MECHANICAL CHARACTERISTICS

Circuit Breaker	DPX ³ 630 F/N/H/L (36kA, 50kA, 70kA, 100kA)
Nominal current (A)	250, 320, 400, 500, 630
Poles	3 - 4
Rated insulation voltage U _i (V)	800
Rated operating voltage (50/60Hz) U _e (V)	690
Rated impulse withstand current U _{imp} (kV)	8
Nominal frequency (Hz)	50 - 60
Functioning temperature (°C)	40 - 50
Operating temperature (°C)	-25 ÷ 70
Mechanical endurance (cycles)	20000
Mechanical endurance with motor control (cycles)	10000
Electrical endurance at I _n (cycles)	4000
Electrical endurance at 0.5 I _n (cycles)	8000
Utilization category	A
Suitable for isolation	Yes
Type of protection	Thermal-magnetic
Magnetic adjustment	(5 ÷ 10) × I _n
Thermal adjustment	(0.8 ÷ 1) × I _n
Neutral protection for 4P version (%I _{th})	100
Dimensions (W x H x D) (mm)	43.5(xP) x 260 x 105
Weight (kg)	5.4(3P) - 6.85(4P)

Switch	DPX ³ -I
Uninterrupted nominal current I _u (A)	400 - 630
Short-time resistive current I _{cs} (kA) for 1s	5 (400A) - 8 (630A)
Rated short-circuit making capacity I _{cm} (kA)	8(400A) - 14 (630A)
Isolated voltage U _i (V AC)	800
Maximum rated operating voltage U _e (V AC/DC)	690
Rated impulse withstand voltage U _{imp} (kV)	8
Utilisation category	AC23A (400A) - AC22A (630A)
Nominal frequency (Hz)	50-60
Operating temperature (°C)	-25 ÷ 70
Mechanical endurance (cycles)	20000
Mechanical endurance with motor control	10000
Electrical endurance (cycles) at I _n	4000
Electrical endurance (cycles) at 0.5 I _n	8000
Dimensions (W x H x D) (mm)	140 x 260 x 105(3P) 183 x 260 x 105(4P)
Weight (kg)	4.5(3P) - 6.4(4P)

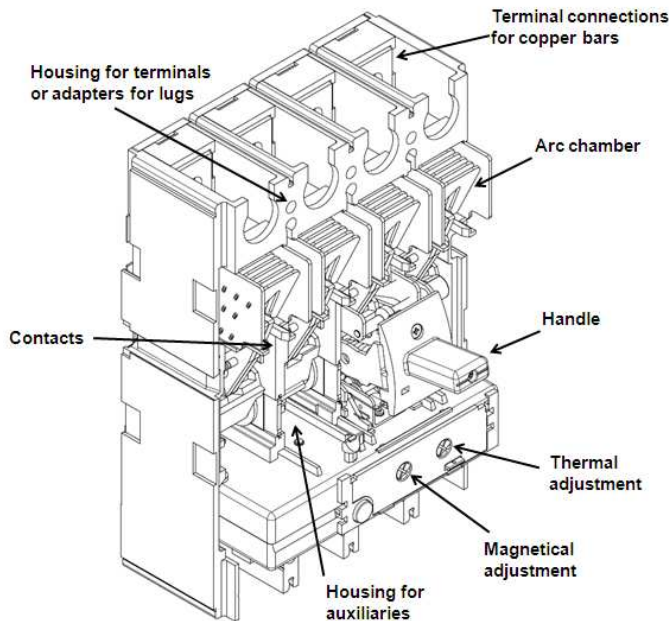
DPX³ 630

Thermal magnetic and trip-free switches

DPX³-I 630

Reference(s) : 422 000/ 001/ 002/ 003/ 004/ 005/ 006/ 007/ 008/ 009/ 010/ 011/ 012/ 013/ 014/ 015/ 016/ 017/ 018/ 019/ 020/ 021/ 022/ 023/ 024/ 025/ 026/ 027/ 028/ 029/ 030/ 031/ 032/ 033/ 034/ 035/ 036/ 037/ 038/ 039/ 040/ 041/ 042/ 043/ 044/ 045/ 046/ 047/ 048/ 049/ 050/ 051/ 052/ 053/ 054/ 055 & 422 216/ 217/ 218/ 219

5.1 Main parts constituting the circuit breaker



5.2 Breaking capacity (kA)

	Breaking capacity (kA) & I_{cs}			
	3P-4P	3P-4P	3P-4P	3P-4P
U_e/I_{cu}	F	N	H	L
220/240 V AC	70	100	120	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
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	75.6	105	154	220

5.3 Nominal current (I_n) at 40°C / 50°C

I_n (A)	Assigned current trip thermal		
	L1 - L2 - L3	N	N/2
250	250	250	160
320	320	320	200
400	400	400	250
500	500	500	320
630	630	630	400

5.4 Power losses per pole under I_n

Circuit breaker

	Power losses per pole (W)									
	I_n (A)									
	250		320		400		500		630	
	Phase	Neutral	Phase	Neutral	Phase	Neutral	Phase	Neutral	Phase	Neutral
Cage terminals	19.2	19.2	16.4	16.4	25.6	18.9	23.6	28.7	37.3	21.2
Lugs	19.2	19.2	16.4	16.4	25.6	18.9	23.6	28.7	37.3	21.2
External lugs	19.9	19.9	17.6	17.6	27.5	19.7	26.6	30.0	42.1	23.1
Spreaders	20.6	20.6	18.8	18.8	29.3	20.4	28.2	30.6	44.7	24.1
Rear terminals	20.4	20.4	18.4	18.4	28.7	20.2	28.5	30.7	45.0	24.3
Plugin version	26.7	26.7	28.8	28.8	44.9	26.5	53.9	41.1	85.3	40.5
Circuit breaker + RCD	22.3	22.3	21.5	21.5	33.6	22.1	36.1	33.8	57.2	29.2

Switch

	Power losses per pole (W)			
	I_n (A)			
	400		630	
	Phase	Neutral	Phase	Neutral
Cage terminals	25.6	25.6	37.3	37.3
Lugs	25.6	25.6	37.3	37.3
External lugs	27.5	27.5	42.1	42.1
Spreaders	29.3	29.3	44.7	44.7
Rear terminals	28.7	28.7	45.0	45.0
Plugin version	44.9	44.9	85.3	85.3
Circuit breaker + RCD	33.6	33.6	57.2	57.2

Total power losses has calculated as the sum of losses of every accessory installed

5.5 FUNCTIONING IN PARTICULAR CONDITIONS

5.5.1 Temperature

I_n (A)	Temperature T_a (°C)						
	10	20	30	40	50	60	70
250	336	307	279	250	250	222	193
320	416	384	352	320	320	288	256
400	475	460	425	400	400	360	320
500	600	550	525	500	500	455	410
630	700	683	650	630	630	580	530

For derating temperature with other configurations, see table A.

5.5.2 Altitude

Altitude (m)	2000	3000	4000	5000
U_e (V)	690	590	520	460
I_n (A) ($T_a = 40^\circ\text{C}/50^\circ\text{C}$)	I_n	$0.98 \times I_n$	$0.93 \times I_n$	$0.9 \times I_n$

5.5.3 Use at 400 Hz

See table B.

5.5.4 Use in DC

See table C.

DPX³ 630

Thermal magnetic and trip-free switches

DPX³-I 630

Reference(s) : 422 000/ 001/ 002/ 003/ 004/ 005/ 006/ 007/ 008/ 009/ 010/ 011/ 012/ 013/ 014/ 015/ 016/ 017/ 018/ 019/ 020/ 021/ 022/ 023/ 024/ 025/ 026/ 027/ 028/ 029/ 030/ 031/ 032/ 033/ 034/ 035/ 036/ 037/ 038/ 039/ 040/ 041/ 042/ 043/ 044/ 045/ 046/ 047/ 048/ 049/ 050/ 051/ 052/ 053/ 054/ 055 & 422 216/ 217/ 218/ 219

6. CONFORMITY

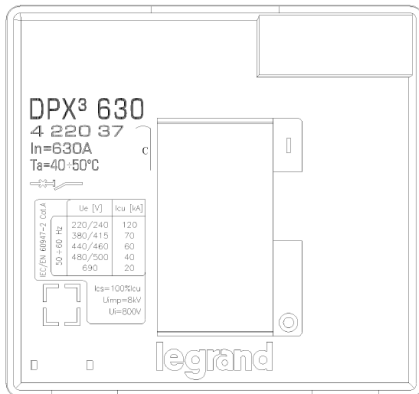
DPX³ range of product concerning circuit-breakers and switch-disconnectors are in full compliance with the EN/IEC standard 60947-2 and 60947-3 respectively.

The certificate are issued by LOVAG and/or by IECEE CB-scheme certification scheme.

All the product range are CE, CCC, EAC, ANCE marked.

DMX³ are full in compliance with the Shipping Register of Lloyds, RINA, Bureau Veritas, Germanishe Lloyds, Norske Veritas and ABS.

6.1 Marking



"Tropical climate" :

- execution II (all climates) according to guide UTE C63100

7. EQUIPMENTS AND ACCESSORIES

7.1 Earth leakage modules

Earth leakage characteristics for DPX ³ 630		
	Standard	with Led
Type	A - S	A - S
Uninterrupted nominal current I _n (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 _{dn} (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

400A	3P	ref. 0 260 60
	4P	ref. 0 260 61
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

7.2 Releases

- shunt releases (Power consumption = 300 VA) with voltage
24 V AC and DC ref. 4 222 39
48 V AC and DC ref. 4 222 40
110 V AC and DC ref. 4 222 41
230 V AC and DC ref. 4 222 42
400 V AC and DC ref. 4 222 43

- undervoltage releases (Power consumption = 5 VA) with voltage
24 V DC ref. 4 222 44
24 V AC ref. 4 222 45
48 V DC ref. 4 222 46
110 V AC ref. 4 222 47
230 V AC ref. 4 222 48
400 V AC ref. 4 222 49

- time-lag undervoltage releases (800 ms)

Time-lag modules with voltage

24 V AC and DC	ref. 0 261 92
230 V AC	ref. 0 261 90
400 V AC	ref. 0 261 91
Universal Release	ref. 4 226 23

DPX³ 630

Thermal magnetic and trip-free switches

DPX³-I 630

Reference(s) : 422 000/ 001/ 002/ 003/ 004/ 005/ 006/ 007/ 008/ 009/ 010/ 011/ 012/ 013/ 014/ 015/ 016/ 017/ 018/ 019/ 020/ 021/ 022/ 023/ 024/ 025/ 026/ 027/ 028/ 029/ 030/ 031/ 032/ 033/ 034/ 035/ 036/ 037/ 038/ 039/ 040/ 041/ 042/ 043/ 044/ 045/ 046/ 047/ 048/ 049/ 050/ 051/ 052/ 053/ 054/ 055 & 422 216/ 217/ 218/ 219

7.3 Auxiliary contact

Changeover switch 3A – 250 VAC

ref. 4 210 11

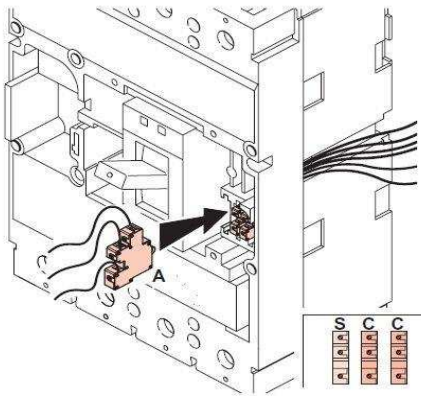
To show the state of the contacts or opening of the DPX³ on a fault:

Auxiliary contact (standard) **C**
Fault signal **S**

Auxiliary contact		
Nominal 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:

DPX³ 630 → 2 auxiliary contact + 1 fault signal + 1 release



7.4 Rotary handles

Direct on DPX³

- Standard (black) ref. 0 262 41
- For emergency use (red / yellow) adapting on standard handle ref. 4 222 38

Vari-depth handle IP55

- Standard (black) ref. 0 262 81
- For emergency use (red / yellow) adapting on standard handle ref. 0 262 82

Locking accessories

- Profalux type star key (cod. HBA90GPS6149) for vari-depth handle ref. 0 262 93
- Ronis type flat key (cod. ABA90GEL6149) for vari-depth handle ref. 0 262 94

7.5 Motor-driven handles

Front operated

- Voltage 24 V AC and DC ref. 0 261 40
- Voltage 48 V AC and DC ref. 0 261 41
- Voltage 230 V AC ref. 0 261 44

Locking accessories

- Ronis type flat key (cod. ABA90GEL6149) ref. 0 261 59
- Profalux type star key (cod. HBA90GPS6149) ref. 0 261 58

7.6 Mechanical accessories

Phase insulators

- Set of 3 ref. 0 262 30

Sealable terminal shields

- Set of 2 3P ref. 0 262 44
- Set of 2 4P ref. 0 262 45

Terminal covers to guarantee IP20

- Set of 2 3P ref. 4 222 34
- Set of 2 4P ref. 4 222 35

Padlocks

- Accessories to lock in open position ref. 0 262 40

7.7 Connection accessories

Cage terminals

- Set of 4 terminals for cables 300mm² max (rigid) or 240mm² max (flexible) Cu/Al ref. 0 262 50
- Set of 4 terminals for cables 2x240mm² max (rigid) or 2x180mm² max (flexible) Cu/Al ref. 0 262 51

Extended front terminals

- Set of 4 ref. 0 262 47

Spreaders

- Set of 3 (incoming or outgoing 3P) ref. 0 262 48
- Set of 4 (incoming or outgoing 4P) ref. 0 262 49

Rear terminals

(use to connect fixed version with front terminals into fixed version with rear terminals)

- Set of swivel terminals, incoming or outgoing
 - 3P ref. 0 263 50
 - 4P ref. 0 263 51
- Set of flat rear terminals, incoming or outgoing
 - 3P ref. 0 263 52
 - 4P ref. 0 263 53

7.8 Plug-in version

(A plug-in is a DPX³ fitted with tulip contacts mounted on a base)

Terminals for plug-in & draw-out base

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

Tulip contact

- Set of tulip contact (supplied with an incoming/outgoing protective cover)
 - 3P ref. 0 265 50
 - 4P ref. 0 265 51

Bases

- front terminal mounting base
 - 3P ref. 4 222 22
 - 4P ref. 4 222 23
- flat rear terminal mounting base
 - 3P ref. 4 222 24
 - 4P ref. 4 222 25

Bases with earth leakage underneath mounting

- front terminal mounting base ref. 4 222 26
- Flat rear terminal mounting base ref. 4 222 27

DPX³ 630

Thermal magnetic and trip-free switches

DPX³-I 630

Reference(s) : 422 000/ 001/ 002/ 003/ 004/ 005/ 006/ 007/ 008/ 009/ 010/ 011/
012/ 013/ 014/ 015/ 016/ 017/ 018/ 019/ 020/ 021/ 022/ 023/ 024/ 025/ 026/ 027/
028/ 029/ 030/ 031/ 032/ 033/ 034/ 035/ 036/ 037/ 038/ 039/ 040/ 041/ 042/ 043/
044/ 045/ 046/ 047/ 048/ 049/ 050/ 051/ 052/ 053/ 054/ 055 & 422 216/ 217/ 218/
219

Accessories

- Set of 2 extractor handles ref. 4 222 28
- Set of connectors (8-pin) ref. 0 263 99
- Set of connectors (24 pin – 3x8 or 2x12) ref. 4 222 29
- Signal contact (plugged-in / drawn-out) ref. 0 265 74
- Support plate for plug-in version ref. 4 222 37

7.9 Draw-out version

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

"Débro-lift" mechanism

- For DPX³ base only
 - 3P ref. 4 222 31
 - 4P ref. 4 222 32
- For DPX³ 4P base with earth leakage module ref. 4 222 33

Key lock for "Débro-lift" mechanism

- For DPX³ only
 - Ronis type flat key (cod. ABA90GEL6149) ref. 0 265 76
 - Profalux type star key (cod. HBA90GPS6149) ref. 0 263 48
- For motorized DPX³ or with rotary handle
 - Ronis type flat key(cod. ABA90GEL6149) ref. 0 265 78
 - Profalux type star key (cod. HBA90GPS6149) ref. 0 265 77

Accessories for "Débro-lift" mechanism

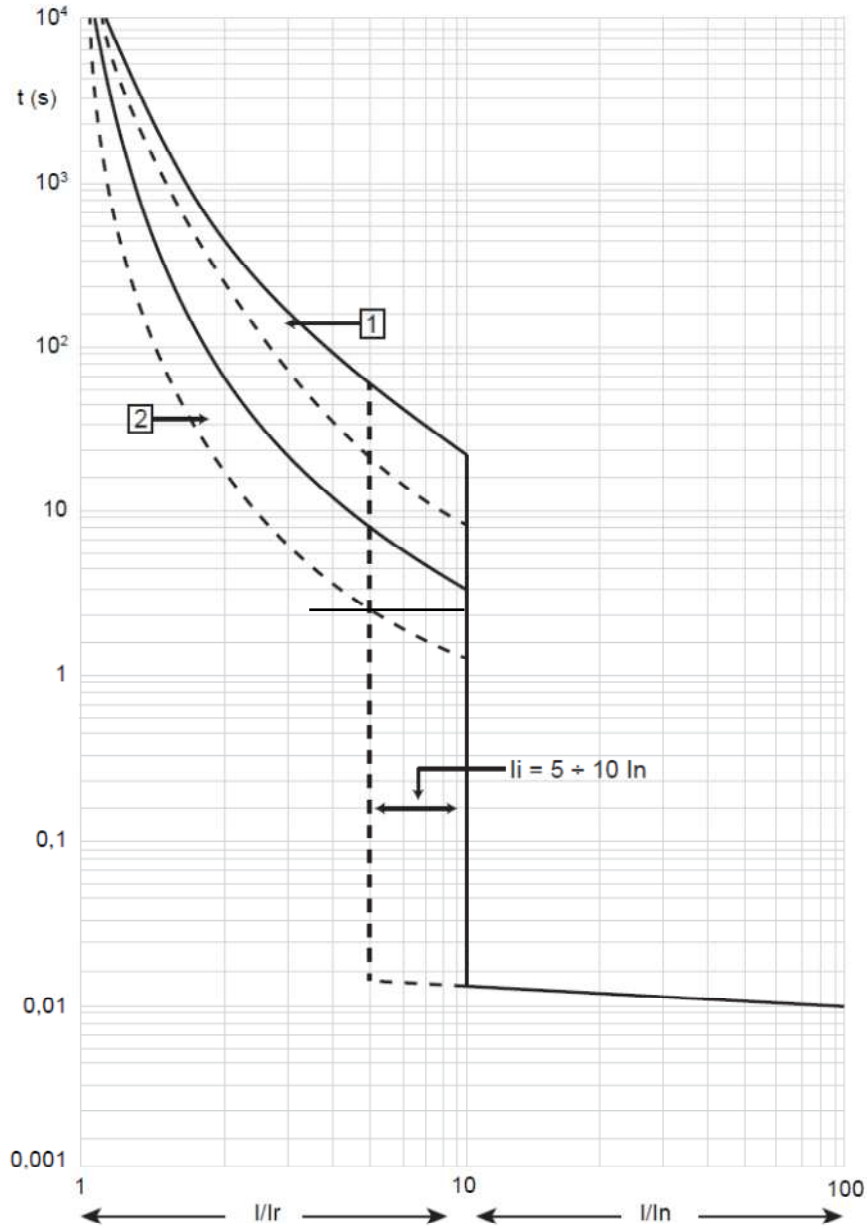
- Isolated handle for drawing-out ref. 0 265 75
- Signal contact (plugged-in / drawn-out) ref. 0 265 74
- Support plate for draw-out version ref. 4 222 36
- Automatic auxiliary contacts (6 pin) for D/O version (2 pieces installable max.) ref. 4 222 30

DPX³ 630
Thermal magnetic and trip-free switches
DPX³-I 630

Reference(s) : 422 000/ 001/ 002/ 003/ 004/ 005/ 006/ 007/ 008/ 009/ 010/ 011/ 012/ 013/ 014/ 015/ 016/ 017/ 018/ 019/ 020/ 021/ 022/ 023/ 024/ 025/ 026/ 027/ 028/ 029/ 030/ 031/ 032/ 033/ 034/ 035/ 036/ 037/ 038/ 039/ 040/ 041/ 042/ 043/ 044/ 045/ 046/ 047/ 048/ 049/ 050/ 051/ 052/ 053/ 054/ 055 & 422 216/ 217/ 218/ 219

8. CURVES

8.1 TRIPPING CURVE



$I_{cu} = 36-50-70-100 \text{ kA}$ $I_{max} = 630\text{A}$ 3-4 P $U_e = 415\text{Vac}$

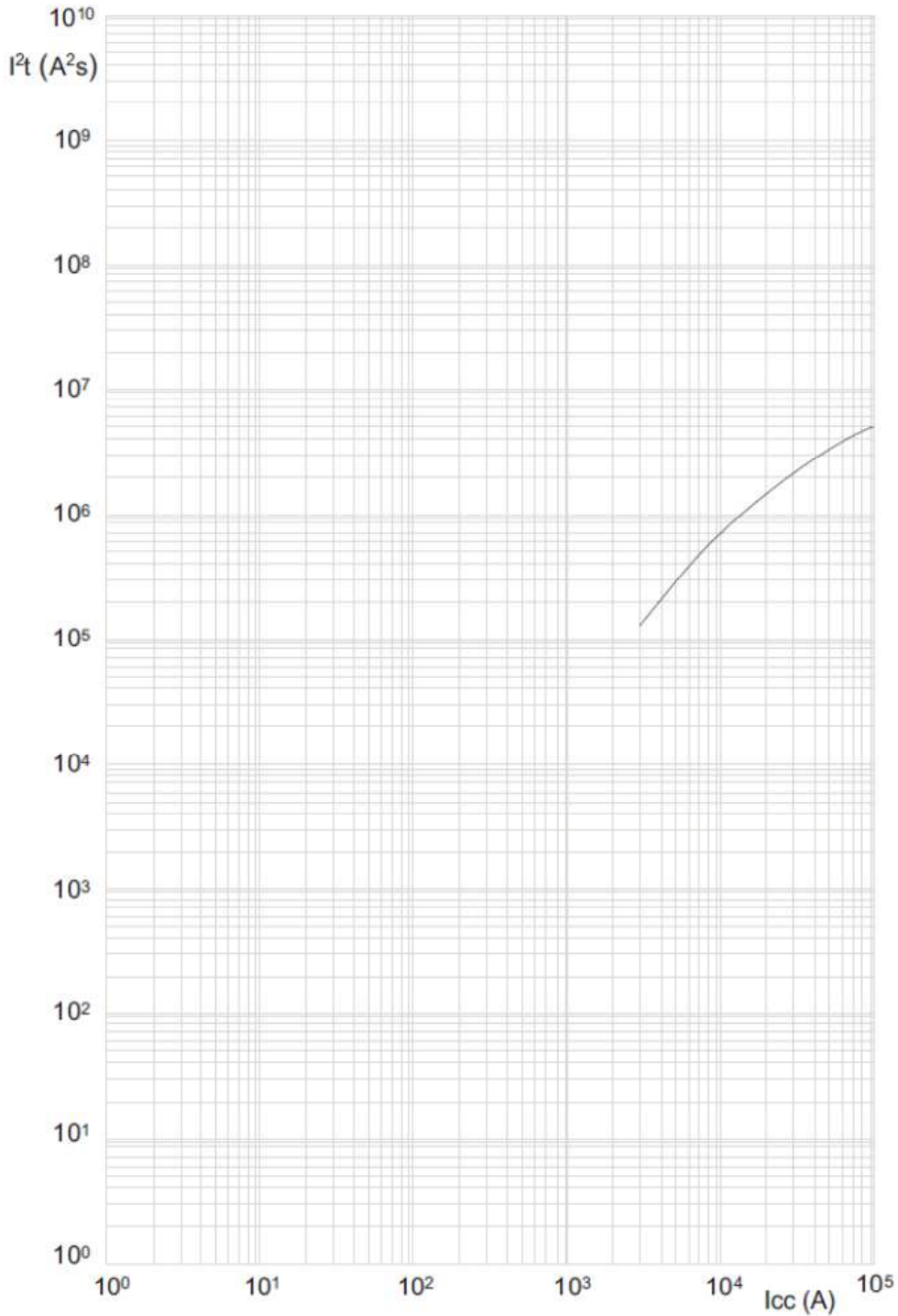
Value	Description
t	time
I	current
I_n	rated current
I_r	long time setting current
curve 1	characteristic with cold start
curve 2	characteristic with hot start

(*) please, for magnetic current value I_i consider a normative tolerance of $\pm 20\%$

DPX³ 630
Thermal magnetic and trip-free switches
DPX³-I 630

Reference(s) : 422 000/ 001/ 002/ 003/ 004/ 005/ 006/ 007/ 008/ 009/ 010/ 011/
 012/ 013/ 014/ 015/ 016/ 017/ 018/ 019/ 020/ 021/ 022/ 023/ 024/ 025/ 026/ 027/
 028/ 029/ 030/ 031/ 032/ 033/ 034/ 035/ 036/ 037/ 038/ 039/ 040/ 041/ 042/ 043/
 044/ 045/ 046/ 047/ 048/ 049/ 050/ 051/ 052/ 053/ 054/ 055 & 422 216/ 217/ 218/
 219

8.2 RESTRICTED CURVE IN THERMAL CONSTRAINT



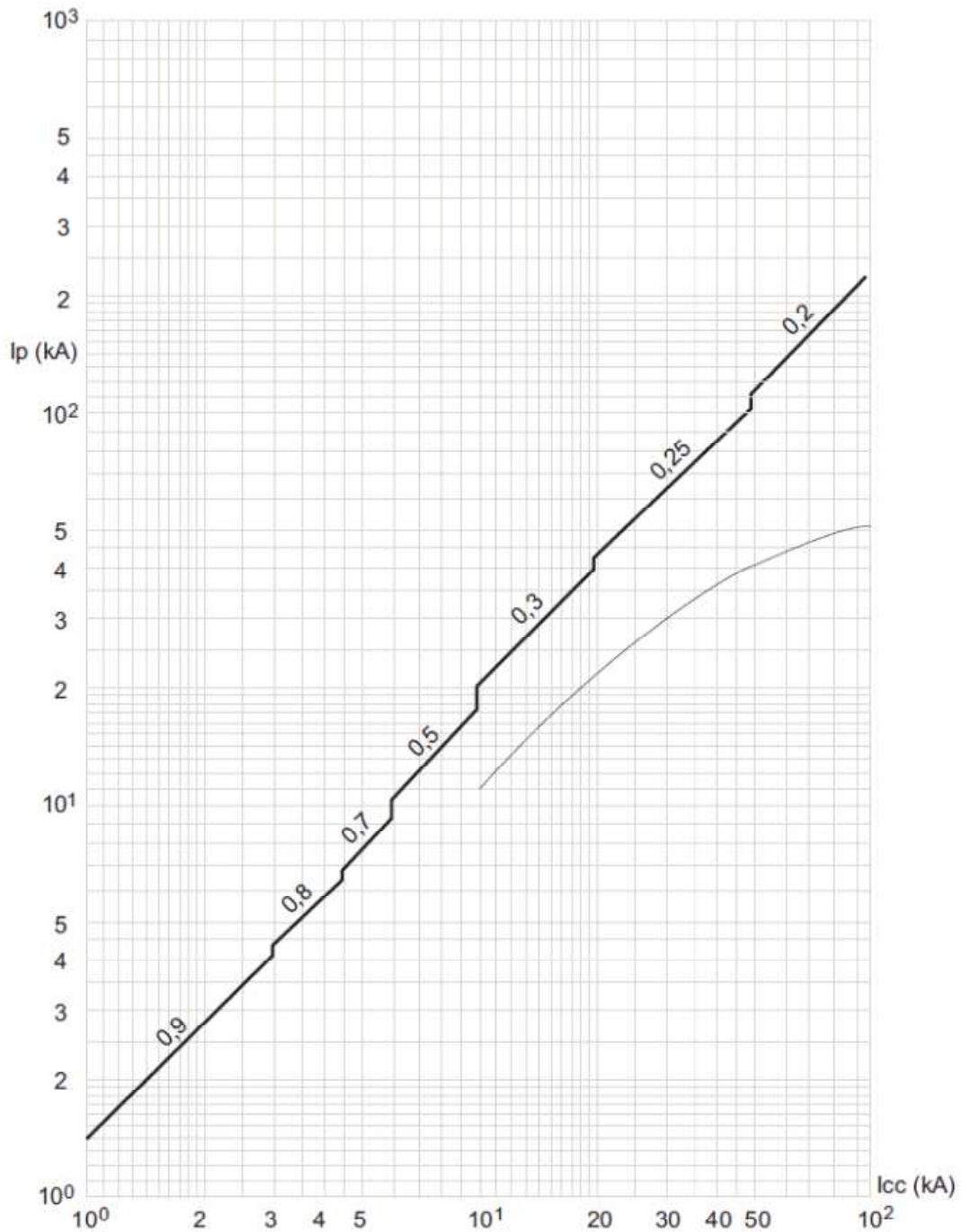
$I_{cu} = 36-50-70-100 \text{ kA}$ $I_{max} = 630\text{A}$ 3-4 P $U_e = 415\text{Vac}$

Value	Description
I_{cc}	short circuit current
$I^2t \text{ (A}^2\text{s)}$	pass-through specific energy



DPX³ 630
Thermal magnetic and trip-free switches
DPX³-I 630

Reference(s) : 422 000/ 001/ 002/ 003/ 004/ 005/ 006/ 007/ 008/ 009/ 010/ 011/
 012/ 013/ 014/ 015/ 016/ 017/ 018/ 019/ 020/ 021/ 022/ 023/ 024/ 025/ 026/ 027/
 028/ 029/ 030/ 031/ 032/ 033/ 034/ 035/ 036/ 037/ 038/ 039/ 040/ 041/ 042/ 043/
 044/ 045/ 046/ 047/ 048/ 049/ 050/ 051/ 052/ 053/ 054/ 055 & 422 216/ 217/ 218/
 219

8.3 RESTRICTED CURRENT CURVE



$I_{cu} = 36-50-70-100 \text{ kA}$ $I_{max} = 630A$ 3-4 P $U_e = 415Vac$

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

DPX³ 630

Thermal magnetic and trip-free switches

DPX³-I 630

Reference(s) : 422 000/ 001/ 002/ 003/ 004/ 005/ 006/ 007/ 008/ 009/ 010/ 011/ 012/ 013/ 014/ 015/ 016/ 017/ 018/ 019/ 020/ 021/ 022/ 023/ 024/ 025/ 026/ 027/ 028/ 029/ 030/ 031/ 032/ 033/ 034/ 035/ 036/ 037/ 038/ 039/ 040/ 041/ 042/ 043/ 044/ 045/ 046/ 047/ 048/ 049/ 050/ 051/ 052/ 053/ 054/ 055 & 422 216/ 217/ 218/ 219

A) Derating Temperature and configurations

		Ambient temperature											
		30 °C		40 °C		50 °C		60 °C		65 °C		70 °C	
Fixed version		I_{max} (A)	I_r / I_n	I_{max} (A)	I_r / I_n	I_{max} (A)	I_r / I_n	I_{max} (A)	I_r / I_n	I_{max} (A)	I_r / I_n	I_{max} (A)	I_r / I_n
DPX ³ 630 fixed	Cage terminals, flexible cable	630	1	630	1	630	1	599	0.95	567	0.9	536	0.85
	Lugs, flexible cable	630	1	630	1	630	1	599	0.95	567	0.9	536	0.85
	Lugs, rigid cable	630	1	630	1	630	1	599	0.95	567	0.9	536	0.85
	Spreaders, flexible cable	630	1	630	1	630	1	599	0.95	504	0.8	473	0.75
	Spreaders, Cu bars	630	1	630	1	630	1	567	0.9	536	0.85	504	0.8
	Rear flat staggered terminals, flexible cable	630	1	630	1	630	1	599	0.95	504	0.8	473	0.75
	Rear flat staggered terminals, Cu bars, vertical	630	1	630	1	630	1	567	0.9	536	0.85	504	0.8
	Rear tang terminals, flexible cable	630	1	630	1	630	1	567	0.9	504	0.8	473	0.75
DPX ³ 630 fixed + RCD	Cage terminals, flexible cable + RCD	599	0.95	567	0.9	567	0.9	504	0.8	473	0.75	441	0.7
	Lugs, flexible cable + RCD	599	0.95	567	0.9	567	0.9	504	0.8	473	0.75	441	0.7
	Lugs, rigid cable + RCD	599	0.95	567	0.9	567	0.9	504	0.8	473	0.75	441	0.7
	Spreaders, flexible cable + RCD	536	0.85	536	0.85	536	0.85	473	0.75	410	0.65	378	0.6
	Spreaders, Cu bars + RCD	567	0.9	536	0.85	536	0.85	504	0.8	441	0.7	378	0.6
	Rear flat staggered terminals, flexible cable + RCD	567	0.9	567	0.9	567	0.9	473	0.75	410	0.65	378	0.6
	Rear flat staggered terminals, Cu bars, vertical + RCD	567	0.9	567	0.9	567	0.9	504	0.8	441	0.7	378	0.6
	Rear tang terminals, flexible cable + RCD	504	0.8	504	0.8	504	0.8	473	0.75	410	0.65	378	0.6
Draw-out version		I_{max} (A)	I_r / I_n	I_{max} (A)	I_r / I_n	I_{max} (A)	I_r / I_n	I_{max} (A)	I_r / I_n	I_{max} (A)	I_r / I_n	I_{max} (A)	I_r / I_n
DPX ³ 630 draw-out	Cage terminals, flexible cable	599	0.95	567	0.9	536	0.85	504	0.8	473	0.75	441	0.7
	Rear flat terminals, flexible cable	599	0.95	567	0.9	536	0.85	504	0.8	473	0.75	441	0.7
	Rear flat terminals, Cu bars, vertical	599	0.95	567	0.9	536	0.85	504	0.8	473	0.75	441	0.7
DPX ³ 630 draw-out + RCD	Cage terminals, flexible cable + RCD	536	0.85	504	0.8	473	0.75	441	0.7	410	0.65	378	0.6
	Cage terminals, Cu bars + RCD	536	0.85	504	0.8	473	0.75	441	0.7	410	0.65	378	0.6
	Rear flat terminals, flexible cable + RCD	536	0.85	504	0.8	473	0.75	441	0.7	410	0.65	378	0.6
	Rear flat terminals, Cu bars, vertical + RCD	536	0.85	504	0.8	473	0.75	441	0.7	410	0.65	378	0.6

B) Correct factor for adjustment for use at 400 Hz

In (A) at 50 Hz	Thermal adjustment		Magnetic adjustment		
	Correction factor	I_n (A) at 400Hz	Correction factor	I_m (A) MIN at 400Hz	I_m (A) MAX at 400Hz
250	0.85	213	1	1250	2500
320	0.85	272	1	1600	3200
400	0.8	320	1	2000	4000
500	0.8	400	1	2500	5000
630	0.8	504	1	3150	6300

C) Breaking capacity in DC (kA)

Circuit breaker	I_n (A)	1 pole	2 poles in series				3 poles in series		4 poles in series			Protection		
		≤55-60V	≤55-60V	≤110-125V	250V	250V	400V	250V	400V	500V	Thermal	Magnetic	Earth leakage	
DPX ³ 630 ($I_{cu} = 36$ kA)	250 - 320 - 400	40	N/A	40	36	N/A	40	N/A	N/A	40	like AC	1.5 I_i AC	No protection	
DPX ³ 630 ($I_{cu} = 50$ kA)	250 - 320 - 400	45	N/A	45	40	N/A	45	N/A	N/A	45	like AC	1.5 I_i AC	No protection	
DPX ³ 630 ($I_{cu} = 70$ kA)	250 - 320 - 400	45	N/A	45	40	N/A	45	N/A	N/A	45	like AC	1.5 I_i AC	No protection	
DPX ³ 630 ($I_{cu} = 100$ kA)	250 - 320 - 400	50	N/A	50	45	N/A	50	N/A	N/A	50	like AC	1.5 I_i AC	No protection	
DPX ³ 630 ($I_{cu} = 36$ kA)	500 - 630	40	N/A	40	36	N/A	40	N/A	N/A	40	like AC	1.5 I_i AC	No protection	
DPX ³ 630 ($I_{cu} = 50$ kA)	500 - 630	45	N/A	45	40	N/A	40	N/A	N/A	40	like AC	1.5 I_i AC	No protection	
DPX ³ 630 ($I_{cu} = 70$ kA)	500 - 630	45	N/A	45	40	N/A	45	N/A	N/A	45	like AC	1.5 I_i AC	No protection	
DPX ³ 630 ($I_{cu} = 100$ kA)	500 - 630	50	N/A	50	45	N/A	50	N/A	N/A	50	like AC	1.5 I_i AC	No protection	