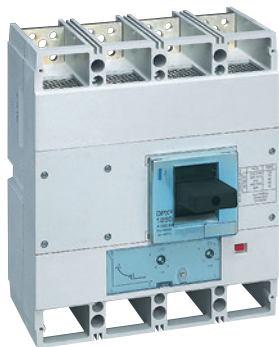


DPX³ 1600

thermal magnetic release MCCBs from 630 to 1250 A



4 222 78



4 222 83

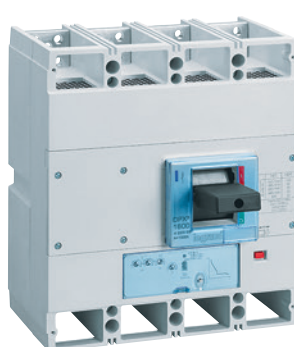
Dimensions **see e-catalogue**
Electrical characteristics **see e-catalogue**

Moulded case MCCBs for switching, control isolation and protection of low voltage electrical lines
Can be fitted with auxiliaries (p. 146)
Can be used with residual current relays (p. 147)
Supplied complete with:
- connection plates for bars
- insulated shields (phase barriers)
Conform to IEC 60947-2 - Sealable adjustment
Can be mounted on plate in XL³ cabinets and enclosures

Pack	Cat.Nos		
			MCCBs thermal magnetic release fixed version
			Thermal adjustable from 0.8 to 1 In Magnetic adjustable from 5 to 10 In
			Breaking capacity Icu 36 kA (400 V~)
	3P	4P	In (A)
1	4 222 51	4 222 56	630
1	4 222 52	4 222 57	800
1	4 222 53	4 222 58	1000
1	4 222 54	4 222 59	1250
	3P + N/2		
1	4 222 60		1000
1	4 222 61		1250
			Breaking capacity Icu 50 kA (400 V~)
	3P	4P	In (A)
1	4 222 63	4 222 68	630
1	4 222 64	4 222 69	800
1	4 222 65	4 222 70	1000
1	4 222 66	4 222 71	1250
	3P + N/2		
1	4 222 72		1000
1	4 222 73		1250
			Breaking capacity Icu 70 kA (400 V~)
	3P	4P	In (A)
1	4 222 75	4 222 80	630
1	4 222 76	4 222 81	800
1	4 222 77	4 222 82	1000
1	4 222 78	4 222 83	1250
	3P + N/2		
1	4 222 84		1000
1	4 222 85		1250
			Breaking capacity Icu 100 kA (400 V~)
	3P	4P	In (A)
1	4 222 87	4 222 92	630
1	4 222 88	4 222 93	800
1	4 222 89	4 222 94	1000
1	4 222 90	4 222 95	1250
	3P + N/2		
1	4 222 96		1000
1	4 222 97		1250

DPX³ 1600

S1 electronic release MCCBs from 630 to 1600 A



4 225 59

Dimensions **see e-catalogue**
Electrical characteristics **see e-catalogue**

Moulded case MCCBs for switching, control isolation and protection of low voltage electrical lines
Can be fitted with auxiliaries (p. 146)
Do not accept DPX³ electronic interface for Modbus Cat.No 4 210 75 (p. 146)
Can be used with residual current relays (p. 147)
Supplied complete with:
- connection plates for bars
- insulated shields (phase barriers)
Conform to IEC 60947-2 - Sealable adjustment
Can be mounted on plate in XL³ cabinets and enclosures

Pack	Cat.Nos		
			MCCBs electronic release S1 fixed version
			Adjustment of Ir, Isd (p. 137) Instantaneous protection If = 20 kA Green indicator lamp Connector for test unit Dynamic selectivity 4P version: adjustment of neutral on front panel
			Breaking capacity Icu 36 kA (400 V~)
	3P	4P	In (A)
1	4 225 39	4 225 45	630
1	4 225 40	4 225 46	800
1	4 225 41	4 225 47	1000
1	4 225 42	4 225 48	1250
1	4 225 43	4 225 49	1600
			Breaking capacity Icu 50 kA (400 V~)
1	4 225 51	4 225 57	630
1	4 225 52	4 225 58	800
1	4 225 53	4 225 59	1000
1	4 225 54	4 225 60	1250
1	4 225 55	4 225 61	1600
			Breaking capacity Icu 70 kA (400 V~)
1	4 225 63	4 225 69	630
1	4 225 64	4 225 70	800
1	4 225 65	4 225 71	1000
1	4 225 66	4 225 72	1250
1	4 225 67	4 225 73	1600
			Breaking capacity Icu 100 kA (400 V~)
1	4 225 75	4 225 81	630
1	4 225 76	4 225 82	800
1	4 225 77	4 225 83	1000
1	4 225 78	4 225 84	1250

For DPX 1600 electronic release S1 **please consult us**



DPX³ 630

S1 electronic release MCCBs from 250 to 630 A



4 225 15

Dimensions **see e-catalogue**
Electrical characteristics **see e-catalogue**

Moulded case MCCBs for switching, control isolation and protection of low voltage electrical lines
Can be fitted with auxiliaries (p. 146)
Can be used with earth leakage modules (p. 140) or with residual current relays (p. 147)
Do not accept DPX³ electronic interface for Modbus Cat.No 4 210 75 (p. 146)
Supplied complete with:
- fixing screws
- connection plates for bars
- insulated shields (phase barriers)
Conform to IEC 60947-2 - Sealable adjustment
Can be mounted on plate in XL³ cabinets and enclosures

Pack	Cat.Nos		MCCBs electronic release S1 - fixed version
			Adjustment of Ir, Isd (opposite) Instantaneous protection If = 5 kA Green indicator lamp Connector for test unit Dynamic selectivity 4P version: adjustment of neutral on front panel
			Breaking capacity Icu 36 kA (400 V~)
	3P	4P	In (A)
1	4 224 98	4 225 03	250
1	4 224 99	4 225 04	320
1	4 225 00	4 225 05	400
1	4 225 01	4 225 06	500
1	4 225 02	4 225 07	630
			Breaking capacity Icu 50 kA (400 V~)
1	4 225 08	4 225 13	250
1	4 225 09	4 225 14	320
1	4 225 10	4 225 15	400
1	4 225 11	4 225 16	500
1	4 225 12	4 225 17	630
			Breaking capacity Icu 70 kA (400 V~)
1	4 225 18	4 225 23	250
1	4 225 19	4 225 24	320
1	4 225 20	4 225 25	400
1	4 225 21	4 225 26	500
1	4 225 22	4 225 27	630
			Breaking capacity Icu 100 kA (400 V~)
1	4 225 28	4 225 33	250
1	4 225 29	4 225 34	320
1	4 225 30	4 225 35	400
1	4 225 31	4 225 36	500
1	4 225 32	4 225 37	630

For DPX 630 electronic release S1 **please consult us**

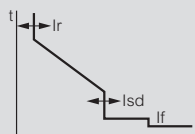


DPX³ 630/1600

electronic release

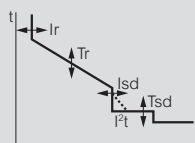
Performance data

S1 - Adjustment of Ir, Isd



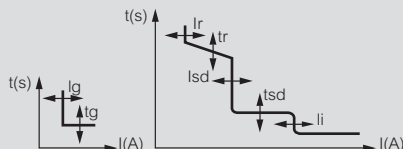
Protection against overloads:
- Ir adjustable from 0.4 to 1 x In
Protection against short circuits:
- Isd adjustable from 1.5 to 10 x Ir
Instantaneous protection If = 5 kA

S2 - Adjustment of Ir, tr, Isd, tsd



Protection against overloads:
- Ir adjustable from 0.4 to 1 x In
- tr adjustable from 3 to 15 s
Protection against short circuits:
- Isd adjustable from 1.5 to 10 x Ir
- tsd adjustable from 0 to 0.5 s











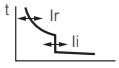
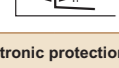
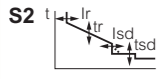
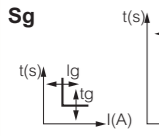
Sg - Adjustment of Ir, tr, Isd, tsd, Ig, tg



Protection against overloads:
- Ir adjustable from 0.4 to 1 x In
- tr adjustable from 3 to 15 s
Protection against short circuits:
- Isd adjustable from 1.5 to 10 x Ir
- tsd adjustable from 0 to 0.5 s
Protection against earth fault:
- Ig adjustable: from 0.2 to 1 x In and OFF position
- tg adjustable from 0.1 to 1 s

DPX³

electrical characteristics

																																					
DEVICES	DPX ³ 160 thermal magnetic				DPX ³ 250 thermal magnetic				DPX ³ 250 electronic release				DPX ³ 630 thermal magnetic				DPX ³ 630 electronic release				DPX ³ 1600 thermal magnetic				DPX ³ 1600 electronic release												
Mounting	On rail  or on plate				On rail  or on plate				On rail  or on plate				On plate				On plate				On plate				On plate												
Breaking capacity (kA) (EN 60947-2 and IEC 60947-2)	16 kA	25 kA	36 kA	50 kA	25 kA	36 kA	50 kA	70 kA	25 kA	36 kA	50 kA	70 kA	36 kA	50 kA	70 kA	100 kA	36 kA	50 kA	70 kA	100 kA	36 kA	50 kA	70 kA	100 kA	36 kA	50 kA	70 kA	100 kA									
380/415 V~	16	25	36	50	25	36	50	70	25	36	50	70					36	50	70	100	36	50	70	100	36	50	70	100	36	50	70	100					
220/240 V~	25	35	50	65	40	60	100	100	40	60	100	100					70	100	120	170	70	100	120	170	70	100	120	170	70	100	120	170					
Breaking capacity (% Icu)	100	100	100	100	100	100	100	100	100	100	100	100					100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100					
Characteristic of use																																					
Nominal frequency	50/60 Hz												50/60 Hz																								
Maximum rated operating voltage Ue	690 V (500 V with integrated e.l.c.bs)				690 V (500 V with integrated e.l.c.bs)				690 V (500 V with integrated e.l.c.bs)				690 V~				690 V~				690 V~				690 V~												
Category of use	A				A				A				A				A: In 630 A - B: In 200 to 400 A				A				B												
Thermal magnetic adjustment																																					
 Thermal	0,8 to 1 In				0,8 to 1 In				-				0.8 to 1 In				-				0.8 to 1 In				-												
 Magnetic	10 In (400 A for 16 A and 25 A sizes)				5 to 10 In				-				5 to 10 In				-				5 to 10 In				-												
Electronic protection adjustment																																					
 S2																																					
 Sg													Ir : 0.4 to 1 In Isd : 1.5 to 10 Ir																								
													Ir = 0.4 - 1 x In Ir = 3-30 s Isd = 1.5 - 10 Ir tsd (I=K) = 0-500 ms tsd (I≠K) = 0-500 ms Ig = 0.2 - 1 x In tg = 0.1 - 1 s				S2 Sg				Ir = 0.4 - 1 x In Ir = 3-30 s Isd = 1.5 - 10 Ir tsd (I=K) = 0-500 ms tsd (I≠K) = 0-500 ms Ig = 0.2 - 1 x In tg = 0.1 - 1 s				S2 Sg												
Maximum cable cross-section																																					
Rigid cable	150 mm ²				150 mm ²				150 mm ²				300 mm ² or 2 x 240 mm ²				300 mm ² or 2 x 240 mm ²				2 or 4 x 240 mm ²				2 or 4 x 240 mm ²												
Flexible cable	120 mm ²				120 mm ²				120 mm ²				240 mm ² or 2 x 185 mm ²				240 mm ² or 2 x 185 mm ²				2 or 4 x 185 mm ²				2 or 4 x 185 mm ²												
Copper bar and lug width	18 mm				28.5 mm ⁽¹⁾				28.5 mm ⁽¹⁾				32 mm				32 mm				50 mm				50 mm												
Tightening torque	8 Nm				10 Nm				10 Nm				15 Nm				15 Nm				20 Nm				20 Nm												
Nominal current (In) at 40 °C (A)																																					
In (A)	16	25	40	63	80	100	125	160	100	160	200	250	40	100	160	250	250	320	400	500	630	250	320	400	500	630	500	630	800	1000	1250	500	630	800	1000	1250	1600
Phase	16	25	40	63	80	100	125	160	100	160	200	250	40	100	160	250	250	320	400	500	630	250	320	400	500	630	500	630	800	1000	1250	500	630	800	1000	1250	1600
N	16	25	40	63	80	100	125	160	100	160	200	250	40	100	160	250	250	320	400	500	630	0 - 50 - 100 % of phase value				500	630	800	1000	1250	0 - 50 - 100 % of phase value						
N/2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	250	250	250	320	-				-	-	-	500	630	-						
Magnetic threshold (Im) (A) ⁽²⁾ of DPX ³ thermal magnetic																																					
	Fixed								Adjustable				Adjustable				Adjustable																				
In (A)	16	25	40	63	80	100	125	160	100	160	200	250	-				250	320	400	500	630	-				500	630	800	1000	1250	-						
Phase	400	400	400	630	800	1000	1250	1600	125-250	200-400	315-630	500-1000	-				1250-2500	1600-3200	2000-4000	2500-5000	3150-6300	-				2500-5000	3150-6300	4000-8000	5000-10000	6250-12500	-						
N	400	400	400	630	800	1000	1250	1600	125-250	200-400	315-630	500-1000	-				1250-2500	1600-3200	2000-4000	2500-5000	3150-6300	-				2500-5000	3150-6300	4000-8000	5000-10000	6250-12500	-						
N/2	-	-	-	-	-	-	-	-	-	-	-	-	-				-	1000-2000	1250-2500	1600-2500	2000-4000	-				-	-	-	2500-5000	3150-6000	-						
Endurance (cycles)																																					
Electrical	8000				8000				8000				5000				5000				4000				4000												
Mechanical	25000				20000				20000				10000				20000				10000				10000												
Electronic earth leakage module																																					
Type	without or integrated				without or integrated				without or integrated				downstream e.l.c.bs.				downstream e.l.c.bs.				-				-												

1: Copper bars only
2: Trip current for 50/60 Hz. For direct current, multiply by 1.5

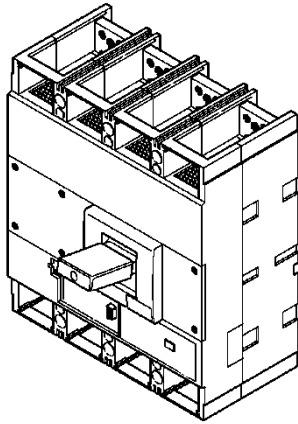
 For DPX³ magnetic release only, Please, consult us

DPX³ 1600

Thermal magnetic and trip-free switches

DPX³-I 1600

Reference(s) : 422 250 /251/ 252/ 253/ 254/ 255 /256/ 257/ 258/ 259/ 260/ 261/ 262/263/ 264/ 265/ 266/ 267/268/ 269/ 270/ 271/ 272/ 273/274/ 275/ 276/ 277/ 278/279/ 280/ 281/ 282/ 283/ 284/ 285/286/ 287/ 288/ 289/ 290/ 291/ 292/ 293/ 294/ 295/ 296/ 297 & 422 490/ 491/ 492/ 493/ 494/ 495/ 496/ 497



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

1. USE

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

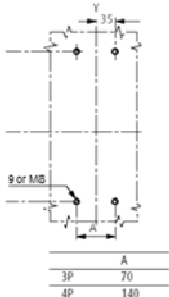
2. RANGE

I _n (A)	36 kA			50 kA		
	3P	4P	3P + N/2	3P	4P	3P + N/2
500	422250	422255	-	422262	422267	-
630	422251	422256	-	422263	422268	-
800	422252	422257	-	422264	422269	-
1000	422253	422258	422260	422265	422270	422272
1250	422254	422259	422261	422266	422271	422273
I _n (A)	70 kA			100 kA		
	3P	4P	3P + N/2	3P	4P	3P + N/2
500	422274	422279	-	422286	422291	-
630	422275	422280	-	422287	422292	-
800	422276	422281	-	422288	422293	-
1000	422277	422282	422284	422289	422294	422296
1250	422278	422283	422285	422290	422295	422297

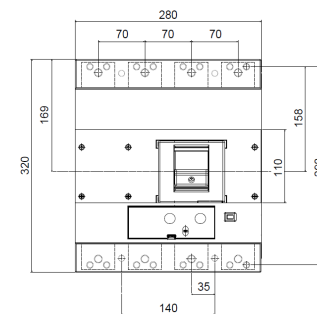
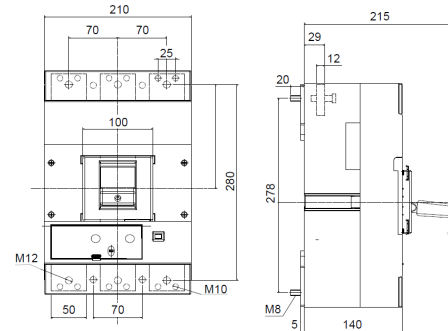
DPX ³ -I		
I _n (A)	3P	4P
500	-	-
630	422490	422494
800	422491	422495
1000	-	-
1250	422492	422496
1600	422493	422497

3. DIMENSIONS

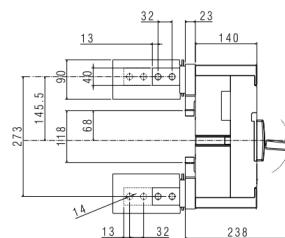
Implantation



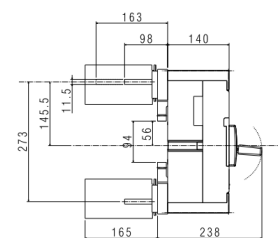
Front terminals, fixed version



Vertical



Horizontal



DPX³ 1600

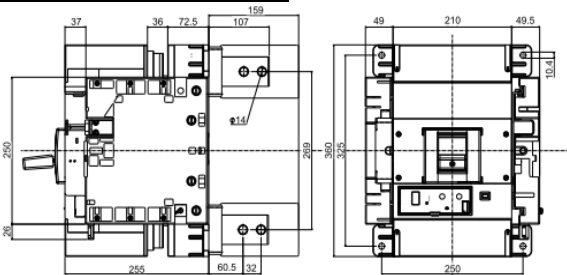
Thermal magnetic and trip-free switches

DPX³-I 1600

Reference(s) : 422 250 /251/ 252/ 253/ 254/ 255 /256/ 257/ 258/ 259/ 260/ 261/ 262/263/ 264/ 265/ 266/ 267/268/ 269/ 270/ 271/ 272/ 273/274/ 275/ 276/ 277/ 278/279/ 280/ 281/ 282/ 283/ 284/ 285/286/ 287/ 288/ 289/ 290/ 291/ 292/ 293/ 294/ 295/ 296/ 297 & 422 490/ 491/ 492/ 493/ 494/ 495/ 496/ 497

3. DIMENSIONS (NEXT)

Draw-out version, rear terminals



4. OVERVIEW

4.1 Supplied

Supplied with

- fixing screws
- connection plates for bars (width 50mm max)
- phase insulators
- sealable terminal shields

4.2 Mounting possibilities

On plate :

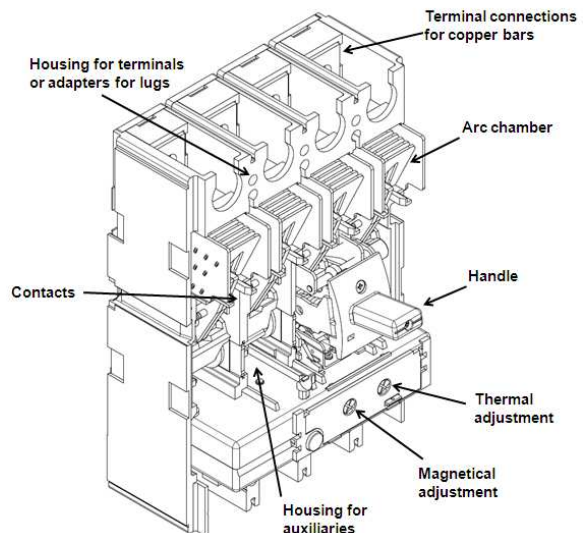
- Vertical
- Horizontal
- Supply inverter type

5. ELECTRICAL AND MECHANICAL CHARACTERISTICS

Circuit Breaker	DPX ³ 1600 F/N/H/L (36 kA, 50 kA, 70 kA, 100 kA)
Nominal current I _n (A)	500, 630, 800, 1000, 1250
Poles	3 - 4
Rated insulation voltage U _i (V)	1000
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)	10000
Mechanical endurance with motor control (cycles)	5000
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 _n)	100
Dimensions (W x H x D) (mm)	280(4P) x 320 x 140
Weight (kg)	13.9(3P) - 17.6(4P)

Switch	DPX ³ -I
Nominal current I _n (A)	630 - 800 - 1250 - 1600
Rated closing capacity on short-circuit I _{cm} (kA)	17 (up to 800A) - 24 (up to 1000A) - 40 (up to 1600A)
Utilization category	AC23A
Short-time resistive current I _{rs} (kA) for 1s	10 (up to 800A) - 12 (up to 1000A) - 20 (up to 1600A)
Isolated voltage U _i (V AC)	1000
Maximum rated operating voltage (50/60Hz) U _e (V)	690
Rated impulse withstand voltage U _{imp} (kV)	8
Nominal frequency (Hz)	50 - 60
Operating temperature (°C)	-25 ÷ 70
Mechanical endurance (cycles)	10000
Mechanical endurance with motor control (cycles)	5000
Electrical endurance (cycles)	4000
Electrical endurance at 0.5 I _n (cycles)	8000
Dimensions (W x H x D) (mm)	280(4P) x 320 x 140
Weight (kg)	13.6(3P) - 17.4(4P)

5.1 Main parts constituting the circuit breaker



DPX³ 1600

Thermal magnetic and trip-free switches

DPX³-I 1600

Reference(s) : 422 250 /251/ 252/ 253/ 254/ 255 /256/ 257/ 258/ 259/ 260/ 261/ 262/263/ 264/ 265/ 266/ 267/268/ 269/ 270/ 271/ 272/ 273/274/ 275/ 276/ 277/ 278/279/ 280/ 281/ 282/ 283/ 284/ 285/286/ 287/ 288/ 289/ 290/ 291/ 292/ 293/ 294/ 295/ 296/ 297 & 422 490/ 491/ 492/ 493/ 494/ 495/ 496/ 497

5.2 Breaking capacity (kA)

Breaking capacity (kA) and 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	45	65	80
480/500 V AC	25	35	45	55
600 V AC	20	24	28	30
690V AC	14	20	22	25
I _{cs} (% I _{cu})	100	100	100	70
Rated making capacity under short circuit I _{cm}				
I _{cm} (kA) at 415V	75.6	105	154	220

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

I _n (A)	Assigned current trip					
	Thermal			Magnetic		
	L1 - L2 - L3	N	N/2	L1 - L2 - L3	N	N/2
500	500	500	-	2500 ÷ 5000	2500 ÷ 5000	-
630	630	630	-	3150 ÷ 6300	3200 ÷ 6300	-
800	800	800	-	4000 ÷ 8000	4000 ÷ 8000	-
1000	1000	1000	630	5000 ÷ 10000	5000 ÷ 10000	3200 ÷ 6300
1250	1250	1250	800	6250 ÷ 12500	6250 ÷ 12500	4000 ÷ 8000

5.4 Power losses per pole under I_n

Circuit breaker

	Power losses per pole (W)				
	I _n (A)				
	500	630	800	1000	1250
Rear terminals - Fixed version	30.7	47.7	46.2	53.7	99.4
Front terminals - Fixed version	30.0	46.4	44.8	53.0	96.9
Front terminals - D-O version	52.3	81.0	78.1	92.0	170.3
Rear terminals - D-O version	38.5	59.9	57.6	68.0	125.0

Switch

	Power losses per pole (W)			
	I _n (A)			
	630	800	1250	1600
Rear terminals - Fixed version	50.8	29.8	74.4	65.3
Front terminals - Fixed version	49.6	29.4	73.4	58.9
Front terminals - D-O version	86.5	51.2	128.1	112.6
Rear terminals - D-O version	63.9	38.4	93.8	97.3

5.5 Functioning in particular conditions

5.5.1 Temperature

I _n (A)	Temperature T _a (°C)						
	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

For derating temperature with other configuration, 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°C/50°C)	1 x I _n	0.98 x I _n	0.93 x I _n	0.90 x I _n

5.5.3 Use at 400 Hz

See table B.

5.5.4 Use in DC

See table C.

6. CONFORMITY

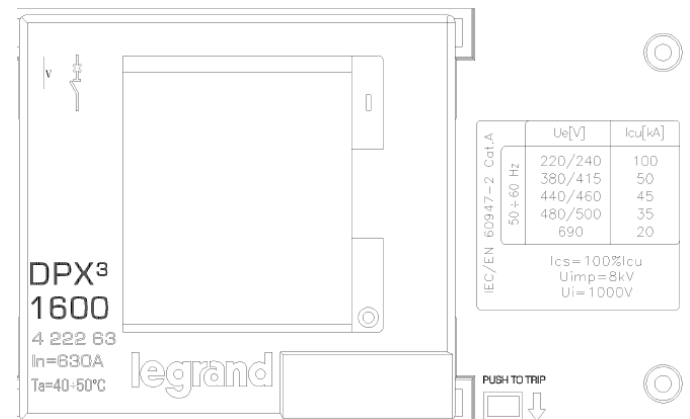
DPX³ range of product concerning circuit-breakers and switch-disconnectors are in full compliance with the EN/IEC standard 60947-2 and 60947-3 respectively.

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, Germanische Lloyds, Norske Veritas and ABS.

6.1 MARKING



" Tropical climate " :

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

DPX³ 1600

Thermal magnetic and trip-free switches

DPX³-I 1600

Reference(s) : 422 250 /251/ 252/ 253/ 254/ 255 /256/ 257/ 258/ 259/ 260/ 261/ 262/263/ 264/ 265/ 266/ 267/268/ 269/ 270/ 271/ 272/ 273/274/ 275/ 276/ 277/ 278/279/ 280/ 281/ 282/ 283/ 284/ 285/286/ 287/ 288/ 289/ 290/ 291/ 292/ 293/ 294/ 295/ 296/ 297 & 422 490/ 491/ 492/ 493/ 494/ 495/ 496/ 497

7. EQUIPMENTS AND ACCESSORIES

7.1 Releases

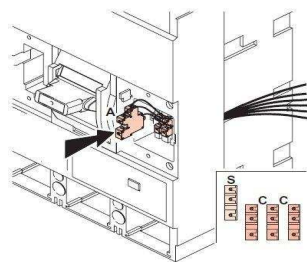
- shunt releases (Power consumption= 300 VA) with voltage
 - 24 V AC and DC ref. 4 222 39
 - 48 V AC and DC ref. 4 222 40
 - 110 V AC and DC ref. 4 222 41
 - 230 V AC and DC ref. 4 222 42
 - 400 V AC and DC ref. 4 222 43
- undervoltage releases (Power consumption = 5 VA) with voltage
 - 24 V DC ref. 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

7.2 Auxiliary contact

- Changeover switch 3A – 250 V AC 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

3 auxiliary contact + 1 fault signal (max) + 1 release



7.3 Rotary handles

- Standard (black) ref. 0 262 61
- Vari-depth handle IP55
 - Standard (black) ref. 0 262 83
 - For emergency use (red / yellow) ref. 0 262 84

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

7.4 Motor-driven handles

Factory assembled

Front operated

- Voltage 230 V AC ref. 0 261 54

Customer assembled

Front operated

- Voltage 24 V AC and DC ref. 0 261 24
- Voltage 48 V AC and DC ref. 0 261 25
- Voltage 110 V AC ref. 0 261 26
- Voltage 220 V AC for rating up to 1250A (I_n ≤ 1250A) ref. 0 261 23
- Voltage 230 V AC. for rating of 1600A (I_n=1600A) ref. 0 261 27

Locking accessories

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

7.5 Mechanical accessories

Phase insulators

- Set of 3 ref. 0 262 66

Sealable terminal shields

- Set of 2 3P ref. 0 262 64
- Set of 2 4P ref. 0 262 65

Padlock

- Accessories to lock in open position ref. 0 262 60

Terminal covers to guarantee IP20

- Set of 2 3P ref. 4 225 90
- Set of 2 4P ref. 4 225 91
- External neutral ref. 4 225 92

7.6 Connection accessories

Cage terminals

- Set of 4 terminals for cables 2x240mm² max (rigid) or 2x185mm² max (flexible) (Cu/Al) ref. 0 262 69
- Set of 4 terminals for cables 4x240mm² max (rigid) or 4x185mm² max (flexible) (Cu/Al) ref. 0 262 70

Extended front terminals

- Short terminals for 500 - 1250A (2 bars max. per pole) ref. 0 262 67
- Long terminals for 1600A (3 bars max. per pole) ref. 0 262 68

Spreaders

- Set of 3 (incoming or outgoing 3P) ref. 0 262 73
- Set of 4 (incoming or outgoing 4P) ref. 0 262 74

Rear terminals

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

- Set of swivel terminals, incoming or outgoing
 - 3P ref. 0 263 80
 - 4P ref. 0 263 82
- Set of flat rear terminals, incoming or outgoing
 - 3P ref. 0 263 81
 - 4P ref. 0 263 83

DPX³ 1600

Thermal magnetic and trip-free switches

DPX³-I 1600

Reference(s) : 422 250 /251/ 252/ 253/ 254/ 255 /256/ 257/ 258/ 259/ 260/ 261/
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278/279/ 280/ 281/ 282/ 283/ 284/ 285/286/ 287/ 288/ 289/ 290/ 291/ 292/ 293/
294/ 295/ 296/ 297 & 422 490/ 491/ 492/ 493/ 494/ 495/ 496/ 497

7.7 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)

Draw-out base

Base for DPX³ 1600 supplied not with "Débro-lift" assembled a rigid slide and handle for drawing-out

- Front terminals

3P	ref. 4 225 86
4P	ref. 4 225 87
- Rear terminals

3P	ref. 4 225 88
4P	ref. 4 225 89

"Débro-lift" mechanism

Suitable for turning a fixed circuit-breaker into the moving part of a withdrawable circuit breaker

- Mobile part for draw-out version

3P	ref. 4 225 93
4P	ref. 4 225 94

Key lock for "Débro-lift" mechanism

- One key for DPX³ only
 - Ronis type flat key (cod. ABA90GEL6149)
ref. 0 265 76
 - Profalux type star key (cod. HBA90GPS6149)
ref. 0 263 48
- Two keys (one key supplied) for motorized DPX³ or with rotary handle
 - Ronis type flat key (cod. ABA90GEL6149)
ref. 0 265 80
 - Profalux type star key (cod. HBA90GPS6149)
ref. 0 265 79

Accessories for "Débro-lift" mechanism

- Isolated handle for drawing-out ref 0 265 75
- Signal contact (plugged-in / drawn-out) ref 0 265 74
- Set of connectors (8 contacts) ref 0 263 99
- Set of connectors (6 contacts) ref 0 263 19
- Support plate for draw-out version ref 4 225 95
- Automatic auxil. contacts (12 pin) for D/O version ref.4 222 30

DPX³ 1600

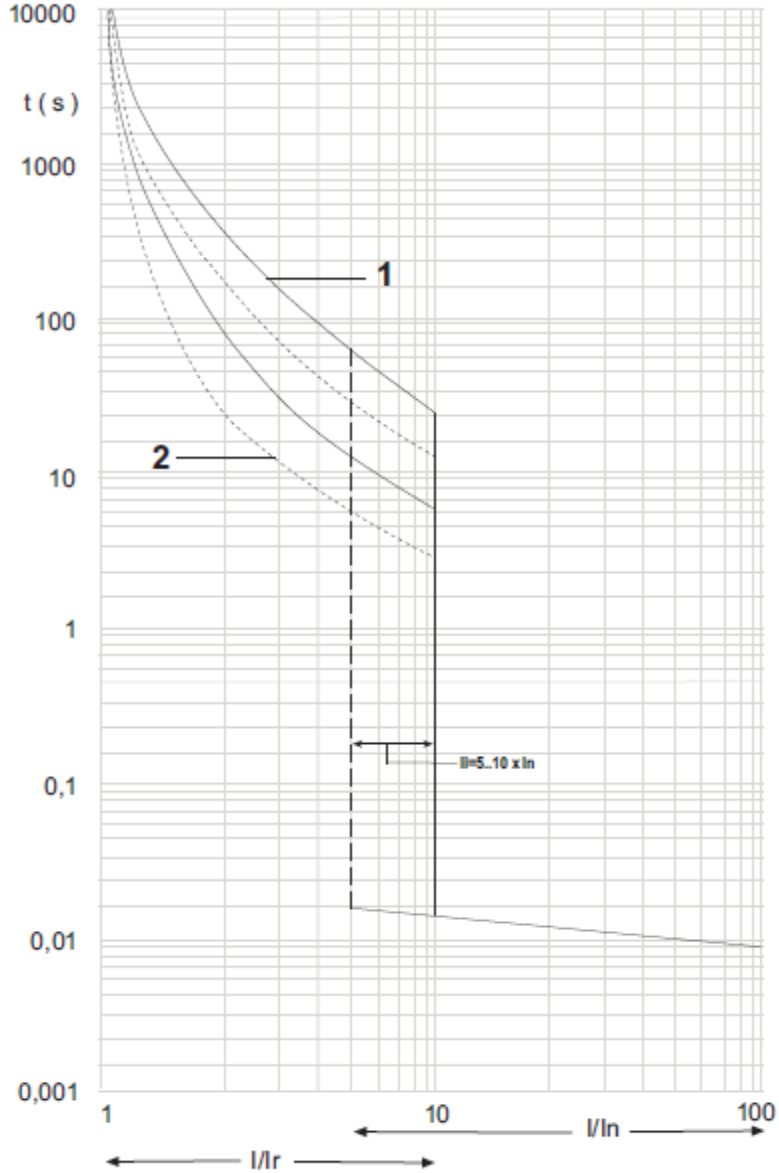
Thermal magnetic and trip-free switches

DPX³-I 1600

Reference(s) : 422 250 /251/ 252/ 253/ 254/ 255 /256/ 257/ 258/ 259/ 260/ 261/ 262/263/ 264/ 265/ 266/ 267/268/ 269/ 270/ 271/ 272/ 273/274/ 275/ 276/ 277/ 278/279/ 280/ 281/ 282/ 283/ 284/ 285/286/ 287/ 288/ 289/ 290/ 291/ 292/ 293/ 294/ 295/ 296/ 297 & 422 490/ 491/ 492/ 493/ 494/ 495/ 496/ 497

8. CURVES

8.1 TRIPPING CURVE (up to 800A)



$I_{cu} = 36-50-70-100 \text{ kA}$ $I_{max} = 800A$ 3-4 P $U_e = 415Vac$

Value	Description
t	time
I	current
I_r	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 $\pm 20\%$

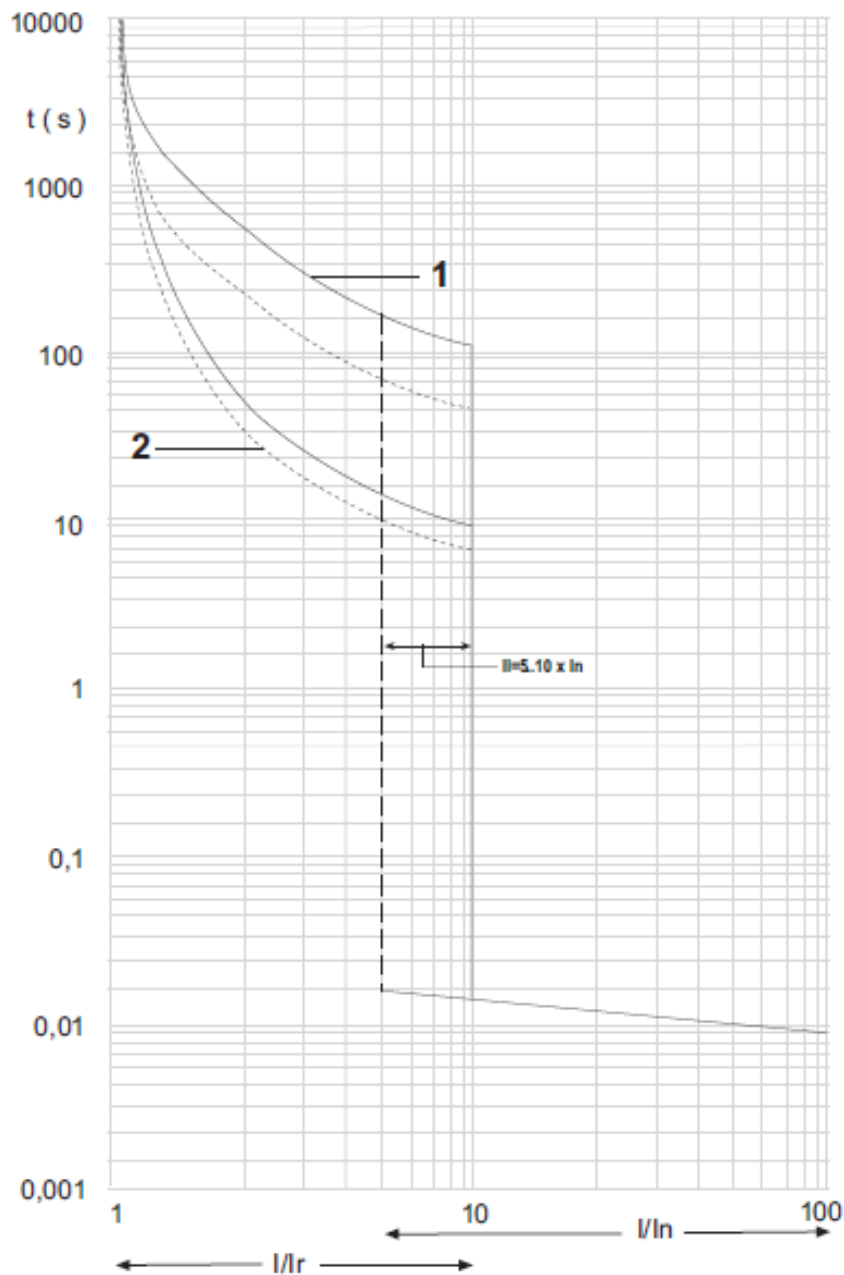
DPX³ 1600

Thermal magnetic and trip-free switches

DPX³-I 1600

Reference(s) : 422 250 /251/ 252/ 253/ 254/ 255 /256/ 257/ 258/ 259/ 260/ 261/ 262/263/ 264/ 265/ 266/ 267/268/ 269/ 270/ 271/ 272/ 273/274/ 275/ 276/ 277/ 278/279/ 280/ 281/ 282/ 283/ 284/ 285/286/ 287/ 288/ 289/ 290/ 291/ 292/ 293/ 294/ 295/ 296/ 297 & 422 490/ 491/ 492/ 493/ 494/ 495/ 496/ 497

8.2 TRIPPING CURVE (up to 1250A)



$I_{cu} = 36-50-70-100 \text{ kA}$ $I_{max} = 1250A$ 3-4 P $U_e = 415Vac$

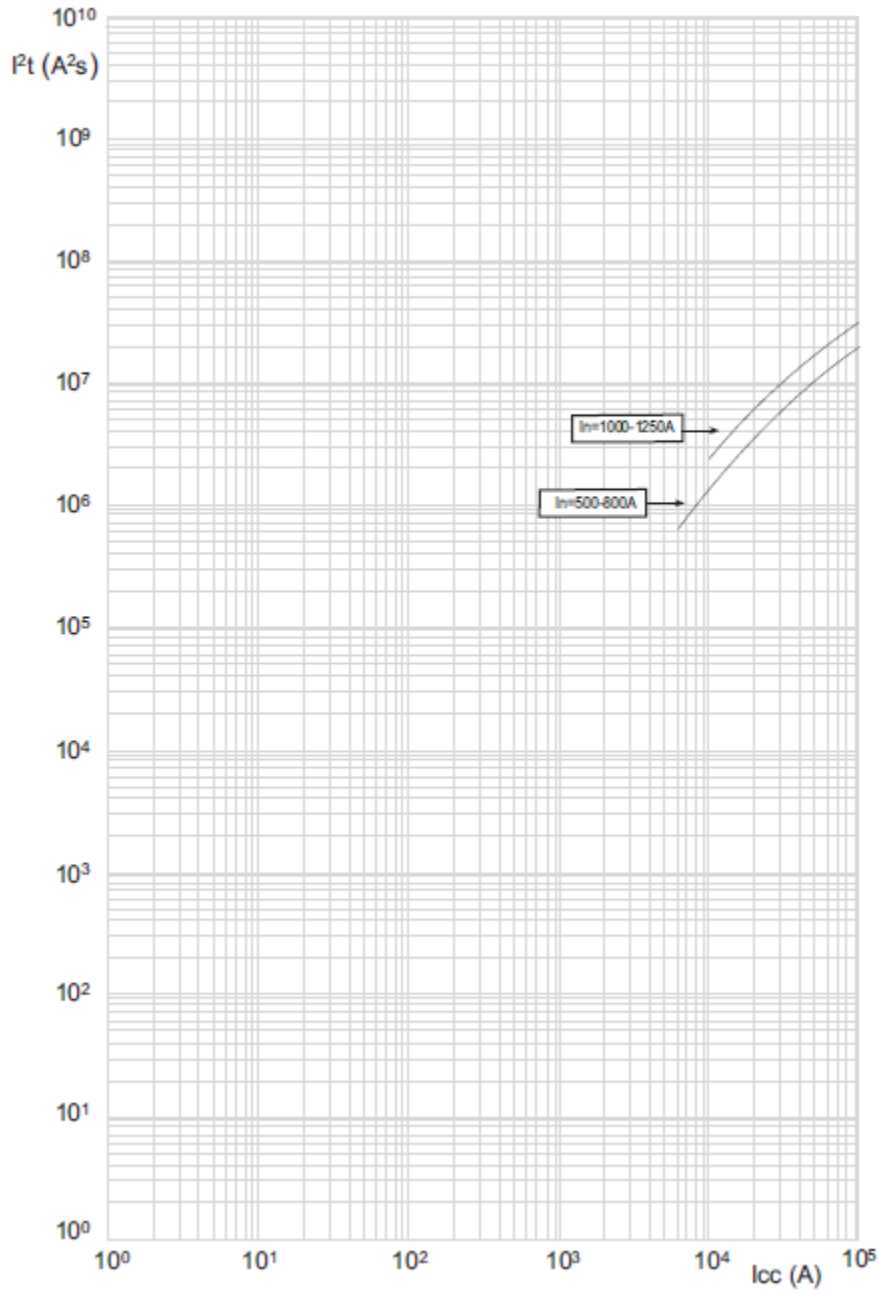
Value	Description
t	time
I	current
I_r	setting current
curve 1	characteristic with cold start
curve 2	characteristic with hot start

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

DPX³ 1600
Thermal magnetic and trip-free switches
DPX³-I 1600

Reference(s) : 422 250 /251/ 252/ 253/ 254/ 255 /256/ 257/ 258/ 259/ 260/ 261/
 262/263/ 264/ 265/ 266/ 267/268/ 269/ 270/ 271/ 272/ 273/274/ 275/ 276/ 277/
 278/279/ 280/ 281/ 282/ 283/ 284/ 285/286/ 287/ 288/ 289/ 290/ 291/ 292/ 293/
 294/ 295/ 296/ 297 & 422 490/ 491/ 492/ 493/ 494/ 495/ 496/ 497

8.3 RESTRICTED CURVE IN THERMAL CONSTRAINT



I_{cu} = 36-50-70-100 kA I_{max} = 1250A 3-4 P U_e = 415Vac

Value	Description
I _{cc}	short circuit current
I²t	pass-through specific energy

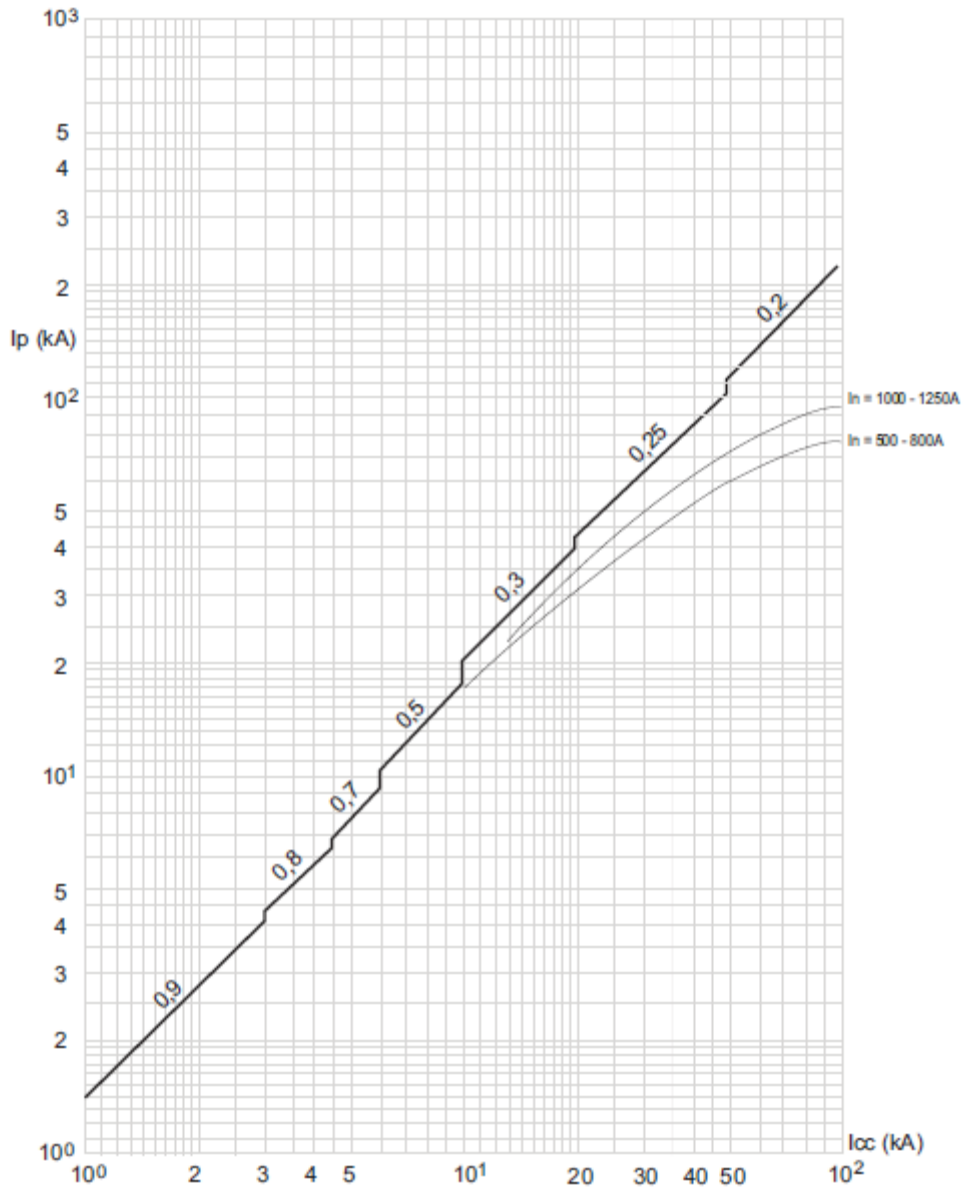
DPX³ 1600

Thermal magnetic and trip-free switches

DPX³-I 1600

Reference(s) : 422 250 /251/ 252/ 253/ 254/ 255 /256/ 257/ 258/ 259/ 260/ 261/ 262/263/ 264/ 265/ 266/ 267/268/ 269/ 270/ 271/ 272/ 273/274/ 275/ 276/ 277/ 278/279/ 280/ 281/ 282/ 283/ 284/ 285/286/ 287/ 288/ 289/ 290/ 291/ 292/ 293/ 294/ 295/ 296/ 297 & 422 490/ 491/ 492/ 493/ 494/ 495/ 496/ 497

8.4 RESTRICTED CURRENT CURVE



$I_{cu} = 36-50-70-100 \text{ kA}$ $I_{max} = 1250\text{A}$ 3-4 P $U_e = 415\text{Vac}$

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 1600

Thermal magnetic and trip-free switches

DPX³-I 1600

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A) Derating Temperature and configurations

		Ambient temperature											
		30 °C		40 °C		50 °C		60 °C		65 °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	I _{max} (A)	I _r / I _n
Fixed version - 500A	Cage terminals, flexible cable	500	1	500	1	500	1	500	1	500	1	500	1
	Cage terminals, flexible cable + sealable terminal shields	500	1	500	1	500	1	500	1	500	1	500	1
	Lugs, rigid cable	500	1	500	1	500	1	500	1	500	1	500	1
	Spreaders, flexible cable	500	1	500	1	500	1	500	1	500	1	500	1
	Spreaders, bars 2x50x10 Cu	500	1	500	1	500	1	500	1	500	1	500	1
	Rear flat terminals, bars 2x80x5 Cu, vertical	500	1	500	1	500	1	500	1	500	1	500	1
	Rear flat staggered terminals, bars 2x80x5 Cu, vertical	500	1	500	1	500	1	500	1	500	1	500	1
Fixed version - 800A	Cage terminals, flexible cable	800	1	800	1	800	1	800	1	800	1	800	1
	Cage terminals, flexible cable + sealable terminal shields	800	1	800	1	800	1	800	1	800	1	800	1
	Lugs, rigid cable	800	1	800	1	800	1	800	1	800	1	800	1
	Spreaders, flexible cable	800	1	800	1	800	1	800	1	800	1	800	1
	Spreaders, bars 2x50x10 Cu	800	1	800	1	800	1	800	1	800	1	800	1
	Rear flat terminals, bars 2x80x5 Cu, vertical	800	1	800	1	800	1	800	1	800	1	800	1
	Rear flat staggered terminals, bars 2x80x5 Cu, vertical	800	1	800	1	800	1	800	1	800	1	800	1
Fixed version - 1000A	Cage terminals, flexible cable	1000	1	1000	1	1000	1	1000	1	950	0.95	900	0.9
	Cage terminals, flexible cable + sealable terminal shields	1000	1	1000	1	1000	1	1000	1	950	0.95	900	0.9
	Lugs, rigid cable	1000	1	1000	1	1000	1	1000	1	950	0.95	900	0.9
	Spreaders, flexible cable	1000	1	1000	1	1000	1	1000	1	1000	1	900	0.9
	Spreaders, bars 2x50x10 Cu	1000	1	1000	1	1000	1	1000	1	1000	1	900	0.9
	Rear flat terminals, bars 2x80x5 Cu, vertical	1000	1	1000	1	1000	1	1000	1	1000	1	900	0.9
	Rear flat staggered terminals, bars 2x80x5 Cu, vertical	1000	1	1000	1	1000	1	1000	1	1000	1	900	0.9
Fixed version - 1250A	Cage terminals, flexible cable	1250	1	1250	1	1250	1	1087.5	0.87	975	0.78	937.5	0.75
	Cage terminals, flexible cable + sealable terminal shields	1250	1	1250	1	1250	1	1087.5	0.87	975	0.78	937.5	0.75
	Lugs, rigid cable	1250	1	1250	1	1250	1	1087.5	0.87	975	0.78	937.5	0.75
	Spreaders, flexible cable	1250	1	1250	1	1250	1	1125	0.9	1000	0.8	937.5	0.75
	Spreaders, bars 2x50x10 Cu	1250	1	1250	1	1250	1	1125	0.9	1000	0.8	937.5	0.75
	Rear flat terminals, bars 2x80x5 Cu, vertical	1250	1	1250	1	1250	1	1125	0.9	1000	0.8	937.5	0.75
	Rear flat staggered terminals, bars 2x80x5 Cu, vertical	1250	1	1250	1	1250	1	1125	0.9	1000	0.8	937.5	0.75

B) Adjustments for use at 400 Hz

I _n (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
500	0.6	300	1	2500	5000
630	0.6	378	1	3150	6300
800	0.6	480	1	4000	8000
1000	0.6	600	1	5000	10000
1250	0.6	750	1	6250	12500

C) Breaking capacity in DC (kA)

Circuit breaker	I _n (A)	1 pole				2 poles in series			3 poles in series			Protection		
		≤55-60V	≤110-125V	≤110-125V	250V	≤110-125V	250V	400V	Thermal	Magnetic	Earth leakage			
DPX ³ 1600 (I _{cu} = 36 kA)	500 - 630	36	36	N/A	36	N/A	N/A	36	like AC	1.5 I _i AC	No protection			
DPX ³ 1600 (I _{cu} = 50 kA)	500 - 630	50	50	N/A	50	N/A	N/A	50	like AC	1.5 I _i AC	No protection			
DPX ³ 1600 (I _{cu} = 70 kA)	500 - 630	60	60	N/A	60	N/A	N/A	60	like AC	1.5 I _i AC	No protection			
DPX ³ 1600 (I _{cu} = 100 kA)	500 - 630	80	80	N/A	80	N/A	N/A	80	like AC	1.5 I _i AC	No protection			
DPX ³ 1600 (I _{cu} = 36 kA)	800	36	36	N/A	36	N/A	N/A	36	like AC	1.5 I _i AC	No protection			
DPX ³ 1600 (I _{cu} = 50 kA)	800	50	50	N/A	50	N/A	N/A	50	like AC	1.5 I _i AC	No protection			
DPX ³ 1600 (I _{cu} = 70 kA)	800	60	60	N/A	60	N/A	N/A	60	like AC	1.5 I _i AC	No protection			
DPX ³ 1600 (I _{cu} = 100 kA)	800	80	80	N/A	80	N/A	N/A	80	like AC	1.5 I _i AC	No protection			
DPX ³ 1600 (I _{cu} = 36 kA)	1000 - 1250	36	36	N/A	36	N/A	N/A	36	like AC	1.5 I _i AC	No protection			
DPX ³ 1600 (I _{cu} = 50 kA)	1000 - 1250	50	50	N/A	50	N/A	N/A	50	like AC	1.5 I _i AC	No protection			
DPX ³ 1600 (I _{cu} = 70 kA)	1000 - 1250	60	60	N/A	60	N/A	N/A	60	like AC	1.5 I _i AC	No protection			
DPX ³ 1600 (I _{cu} = 100 kA)	1000 - 1250	80	80	N/A	80	N/A	N/A	80	like AC	1.5 I _i AC	No protection			

	DPX ³		DPX ³ I	
	3P	4P	3P	4P
A	-	1	-	1
B	1	-	1	-
C	2	3	2	3
D	6	8	6	8
E	12	16	12	16
F	1	1	-	-
G	2	-	2	-
H	-	2	-	2
I	4	4	4	4

①

	S
$I_n \geq 1000A$	12 mm
$I_n < 1000A$	8 mm

	3P	4P
A	210	280
B	70	-
C	-	140

	A	B	C	D	X	Y
Terminal Type 1	70	50	32	14	358	452
Terminal Type 2	125	100	25	14,5	544	624

A	1,5	63
---	-----	----

②

	3P	4P
A	70	140

③

④

⑤

$I_n > 1000A$

max 50x10

$\phi 11$

max 32

M10

E 14 Nm

⑤

$I_n < 1000A$

max 50x10

$\phi 14$

max 23

M12

D 25 Nm

⑤

$I_n < 1000A$

$\phi 14$

max 23

M12

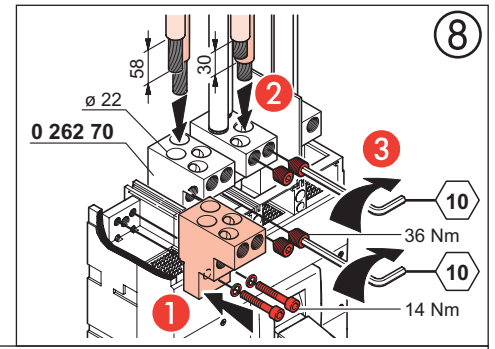
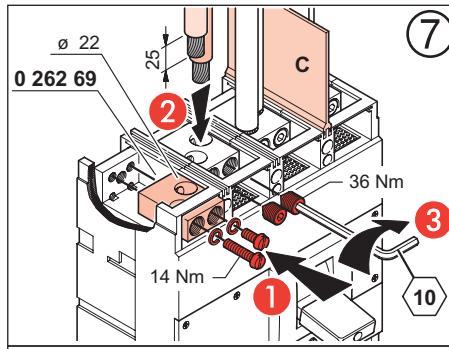
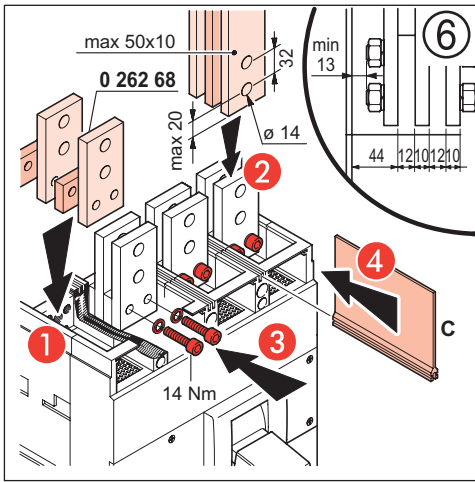
D 25 Nm


⑤

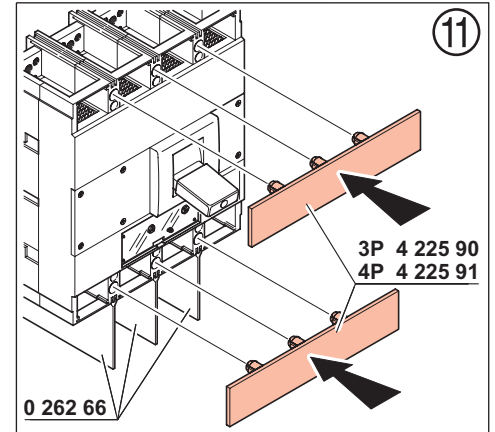
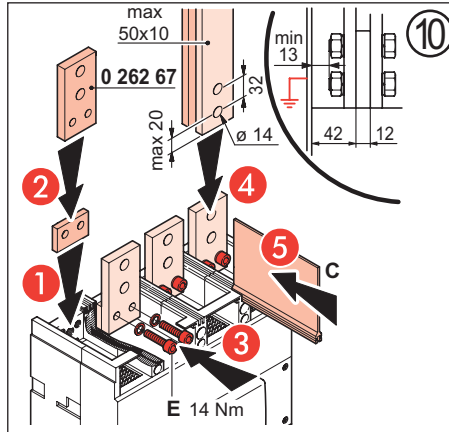
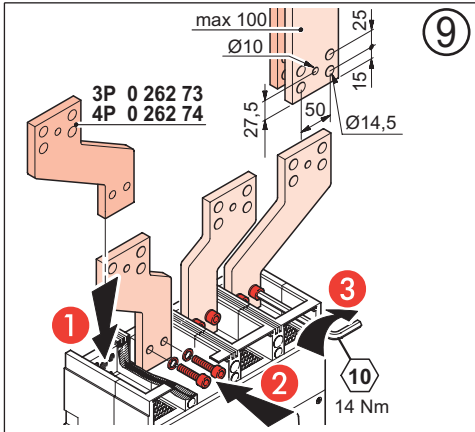
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OK

0 262 67



Flexible Conductors		2x95mm ² 4x95mm ²	MIN	2x185mm ² 4x185mm ²	MAX
Rigid Conductors		2x120mm ² 4x120mm ²	MIN	2x240mm ² 4x240mm ²	MAX



Consignes de sécurité

Ce produit doit être installé conformément aux règles d'installation et de préférence par un électricien qualifié. Une installation et une utilisation incorrectes peuvent entraîner des risques de choc électrique ou d'incendie. Avant d'effectuer l'installation, lire la notice, tenir compte du lieu de montage spécifique au produit. Ne pas ouvrir, démonter, altérer ou modifier l'appareil sauf mention particulière indiquée dans la notice. Tous les produits Legrand doivent exclusivement être ouverts et réparés par du personnel formé et habilité par Legrand. Toute ouverture ou réparation non autorisée annule l'intégralité des responsabilités, droits à remplacement et garanties. Utiliser exclusivement les accessoires de la marque Legrand.

(FR) (BE) (CA) (LU) (CH)



Safety instructions

This product should be installed in compliance with installation rules, preferably by a qualified electrician. Incorrect installation and use can lead to risk of electric shock or fire. Before carrying out the installation, read the instructions and take account of the product's specific mounting location. Do not open up, dismantle, alter or modify the device except where specifically required to do so by the instructions. All Legrand products must be opened and repaired exclusively by personnel trained and approved by Legrand. Any unauthorised opening or repair completely cancels all liabilities and the rights to replacement and guarantees. Use only Legrand brand accessories.

(GB) (CA) (IN) (IE) (US)



Sicherheitshinweise

Dieses Produkt darf nur durch eine Elektro-Fachkraft eingebaut werden. Bei falschem Einbau bzw. Umgang besteht das Risiko eines elektrischen Schlages oder Brandes. Vor der Installation die Anleitung lesen, den produktspezifischen Montageort beachten. Das Gerät vorbehaltlich besonderer, in der Betriebsanleitung angegebener Hinweise nicht öffnen, zerlegen, beschädigen oder abändern. Alle Produkte von Legrand dürfen ausschließlich von durch Legrand geschultes und anerkanntes Personal geöffnet und repariert werden. Durch unbefugte Öffnung oder Reparatur erlöschen alle Haftungs-, Ersatz- und Gewährleistungsansprüche. Ausschliesslich Zubehör der Marke Legrand benutzen.

(DE)



Consignas de seguridad

Este producto debe instalarse conforme a las normas de instalación y preferiblemente por un electricista cualificado. Una instalación y una utilización incorrectas pueden entrañar riesgos de choque eléctrico o de incendio. Antes de efectuar la instalación, leer las instrucciones, tener en cuenta el lugar de montaje específico del producto. No abrir, desmontar, alterar o modificar el aparato salvo que esto se indique específicamente en las instrucciones. Todos los productos Legrand deben ser abiertos y reparados exclusivamente por personal formado y habilitado por Legrand. Cualquier apertura o reparación no autorizada anula la totalidad de las responsabilidades, derechos a sustitución y garantías. Utilizar exclusivamente los accesorios de la marca Legrand.

(ES) (CL) (CO) (CR) (MX) (PE) (US) (VE)



Veiligheidsvoorschriften

Dit product moet in overeenstemming met de installatievoorschriften en bij voorkeur door een vakbekwame elektricien worden geïnstalleerd. Bij een onjuiste installatie en een onjuist gebruik bestaat het risico van elektrische schokken of brand. Lees alvorens de installatie uit te voeren de handleiding door en houd rekening met de specifieke montageplaats van het product. U mag het apparaat niet openen, demonteren of wijzigen, tenzij dat specifiek in de handleiding wordt vermeld. Alle Legrand-producten mogen uitsluitend worden geopend en gerepareerd door personeel dat door Legrand is opgeleid en bevoegd verklaard. In geval van ongeoorloofd openen of repareren wordt geen enkele aansprakelijkheid aanvaard, vervalt het recht op vervanging en zijn de garanties niet meer geldig. Gebruik uitsluitend accessoires van het merk Legrand.

(NL) (BE)



Instruções de segurança

Este produto deve ser instalado de acordo com as regras de instalação e de preferência por um electricista qualificado. A instalação e o uso incorrectos podem provocar riscos de choque eléctrico ou de incêndio. Antes de efectuar a instalação, ler as instruções e ter em conta a localização adequada para a montagem do produto. Não abrir, desmontar, alterar ou modificar o aparelho salvo especificação em contrário nas instruções do produto. Todos os produtos Legrand só devem ser abertos e reparados exclusivamente por pessoal formado e autorizado pela Legrand. Qualquer abertura ou reparação não autorizada cancela todas as responsabilidades, direitos de substituição e garantias. Utilizar exclusivamente os acessórios da marca Legrand.

(PT)



Меры предосторожности

Установка данного изделия должна выполняться в соответствии с правилами монтажа и предпочтительно квалифицированным электриком. Неправильный монтаж или нарушение правил эксплуатации изделия могут привести к возникновению пожара или поражению электрическим током. Перед монтажом необходимо внимательно ознакомиться с данной инструкцией, а также принять во внимание требования к месту установки изделия. Запрещается вскрывать корпус изделия, а также разбирать, выводить из строя или модифицировать изделие, кроме случаев, оговоренных в инструкции. Вскрытие и ремонт изделий марки Legrand могут выполняться только специалистами, обученными и допущенными к таким работам компанией Legrand. Несанкционированное вскрытие или выполнение ремонтных работ посторонними лицами лишает законной силы любые требования об ответственности, замене или гарантийном обслуживании. При ремонте или гарантийном обслуживании использовать только запасные части марки Legrand.

(RU)



安全说明

该产品应由拥有电工资格的人进行安装。错误的安装和使用会导致发生触电或火灾等危险。安装前，请仔细阅读安装说明并且考虑产品特殊的安装位置。除安装说明上特殊要求外，不要随意拆开、拆除以及改动该装置。所有罗格朗的产品都只能被罗格朗培训并认可的人员拆开和维修。任何未经授权对拆开或维修将被完全取消更换和保证的权利。