

DPX³ 1600

S2 electronic release MCCBs from 630 to 1600 A



4 223 27



4 223 33

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 electronic release S2 fixed version
			Adjustment of I_r , I_{sd} , t_r , t_{sd} (p. 137) Instantaneous protection $I_f = 20$ kA Green indicator lamp Connector for test unit Logic and dynamic selectivity 4P version: adjustment of neutral on front panel
			Breaking capacity I_{cu} 36 kA (400 V~)
	3P	4P	I_n (A)
1	4 222 99	4 223 05	630
1	4 223 00	4 223 06	800
1	4 223 01	4 223 07	1000
1	4 223 02	4 223 08	1250
1	4 223 03	4 223 09	1600
			Breaking capacity I_{cu} 50 kA (400 V~)
1	4 223 11	4 223 17	630
1	4 223 12	4 223 18	800
1	4 223 13	4 223 19	1000
1	4 223 14	4 223 20	1250
1	4 223 15	4 223 21	1600
			Breaking capacity I_{cu} 70 kA (400 V~)
1	4 223 23	4 223 29	630
1	4 223 24	4 223 30	800
1	4 223 25	4 223 31	1000
1	4 223 26	4 223 32	1250
1	4 223 27	4 223 33	1600
			Breaking capacity I_{cu} 100 kA (400 V~)
1	4 223 35	4 223 41	630
1	4 223 36	4 223 42	800
1	4 223 37	4 223 43	1000
1	4 223 38	4 223 44	1250

Pack	Cat.Nos		
			MCCBs electronic release S2 with energy metering central unit fixed version
			Adjustment of I_r , I_{sd} , t_r , t_{sd} (p. 137) Instantaneous protection $I_f = 20$ kA Green indicator lamp Connector for test unit Logic and dynamic selectivity 4P version: adjustment of neutral on front panel
			Breaking capacity I_{cu} 36 kA (400 V~)
	3P	4P	I_n (A)
1	4 223 47	4 223 53	630
1	4 223 48	4 223 54	800
1	4 223 49	4 223 55	1000
1	4 223 50	4 223 56	1250
1	4 223 51	4 223 57	1600
			Breaking capacity I_{cu} 50 kA (400 V~)
1	4 223 59	4 223 65	630
1	4 223 60	4 223 66	800
1	4 223 61	4 223 67	1000
1	4 223 62	4 223 68	1250
1	4 223 63	4 223 69	1600
			Breaking capacity I_{cu} 70 kA (400 V~)
1	4 223 71	4 223 77	630
1	4 223 72	4 223 78	800
1	4 223 73	4 223 79	1000
1	4 223 74	4 223 80	1250
1	4 223 75	4 223 81	1600
			Breaking capacity I_{cu} 100 kA (400 V~)
1	4 223 83	4 223 89	630
1	4 223 84	4 223 90	800
1	4 223 85	4 223 91	1000
1	4 223 86	4 223 92	1250

Dimensions **see e-catalogue**



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:

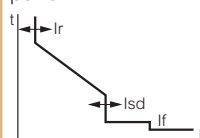
- fixing screws
- connection plates for bars
- insulated shields (phase barriers)

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~)
		In (A)
	3P 4P	
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

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~)

In (A)

	3P	4P	
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**

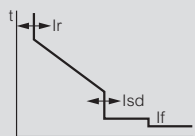


DPX³ 630/1600

electronic release

Performance data

S1 - Adjustment of Ir, Isd



Protection against overloads:

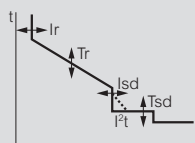
- Ir adjustable from 0.4 to 1 x In

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

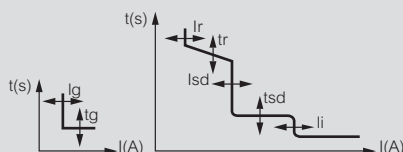
- tr adjustable from 3 to 15 s

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	50/60 Hz												50/60 Hz																								
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																									S2				Sg								
Sg																									Ir = 0.4 - 1 x In				Ir = 0.4 - 1 x In								
																									Ir = 3-30 s				Ir = 3-30 s								
																									I _{sd} = 1.5 - 10 I _r				I _{sd} = 1.5 - 10 I _r								
																									tsd (I=K) = 0-500 ms				tsd (I=K) = 0-500 ms								
																									tsd (I _t =K) = 0-500 ms				tsd (I _t =K) = 0-500 ms								
																									I _g = 0.2 - 1 x In				I _g = 0.2 - 1 x In								
																									t _g = 0.1 - 1 s				t _g = 0.1 - 1 s								
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.				-				-												

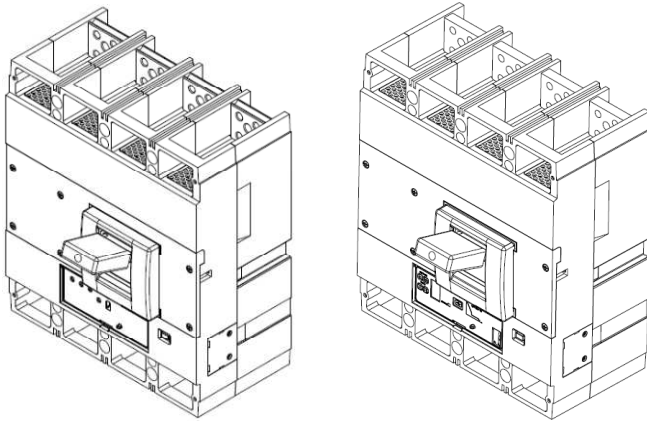
1: Copper bars only
2: Trip current for 50/60 Hz. For direct current, multiply by 1.5

 For DPX³ magnetic release only, Please, consult us

DPX³ 1600

Reference(s) : from 422 298 to 422 48 and
from 422 538 to 422 584

Electronic release



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1. USE

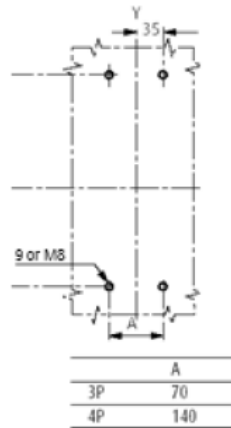
DPX³ "moulded case" circuit breaker offers optimal solutions to answer to protection requirements of tertiary and industrial installations.

2. RANGE

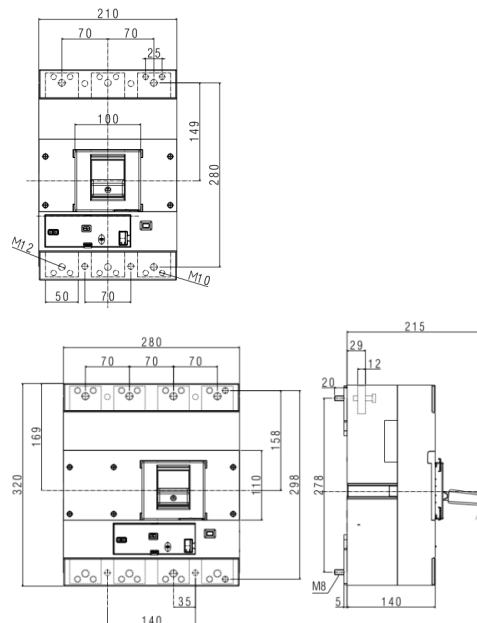
I _n (A)	S1 36kA		S2 36kA		S2 + measure 36kA		Sg 36kA		Sg + measure 36kA	
	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P
500	422538	422544	422298	422304	422346	422352	422394	422400	422442	422448
630	422539	422545	422299	422305	422347	422353	422395	422401	422443	422449
800	422540	422546	422300	422306	422348	422354	422396	422402	422444	422450
1000	422541	422547	422301	422307	422349	422355	422397	422403	422445	422451
1250	422542	422548	422302	422308	422350	422356	422398	422404	422446	422452
1600	422543	422549	422303	422309	422351	422357	422399	422405	422447	422453
50kA										
500	422550	422556	422310	422316	422358	422364	422406	422412	422454	422460
630	422551	422557	422311	422317	422359	422365	422407	422413	422455	422461
800	422552	422558	422312	422318	422360	422366	422408	422414	422456	422462
1000	422553	422559	422313	422319	422361	422367	422409	422415	422457	422463
1250	422554	422560	422314	422320	422362	422368	422410	422416	422458	422464
1600	422555	422561	422315	422321	422363	422369	422411	422417	422459	422465
70kA										
500	422562	422568	422322	422328	422370	422376	422418	422424	422466	422472
630	422563	422569	422323	422329	422371	422377	422419	422425	422467	422473
800	422564	422570	422324	422330	422372	422378	422420	422426	422468	422474
1000	422565	422571	422325	422331	422373	422379	422421	422427	422469	422475
1250	422566	422572	422326	422332	422374	422380	422422	422428	422470	422476
1600	422567	422573	422327	422333	422375	422381	422423	422429	422471	422477
100kA										
500	422574	422580	422334	422340	422382	422388	422430	422436	422478	422484
630	422575	422581	422335	422341	422383	422389	422431	422437	422479	422485
800	422576	422582	422336	422342	422384	422390	422432	422438	422480	422486
1000	422577	422583	422337	422343	422385	422391	422433	422439	422481	422487
1250	422578	422584	422338	422344	422386	422392	422434	422440	422482	422488

3. DIMENSIONS

Implantation



Front terminals, fixed version



DPX³ 1600

Electronic release

Reference(s) : from 422 298 to 422 488 and
from 422 538 to 422 584

5.4 Power losses per pole under I_n

	Power losses (W)					
	I _n (A)					
	500	630	800	1000	1250	1600
Front terminals, fixed version	11.6	18.5	29.8	47.6	74.4	65.3
Rear terminals, fixed version	11.5	18.3	29.4	47.0	73.4	58.9
Front terminals, draw-out version	20.0	31.8	51.2	82.0	128.1	112.6
Rear terminals, draw-out version	15.0	23.8	38.4	60.0	93.4	97.3

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

5.5 FUNCTIONING IN PARTICULAR CONDITIONS

5.5.1 Temperature

°C	Influence of ambient temperature		
	Up to 50	60	70
I _n (A)	500	475	450
	630	599	567
	800	760	720
	1000	1000	900
	1250	1250	938
	1600	1600	1360

For derating temperature with other configurations, see table A.

5.5.2 Altitude

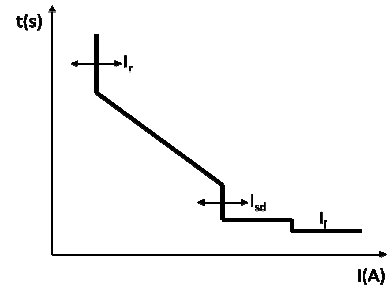
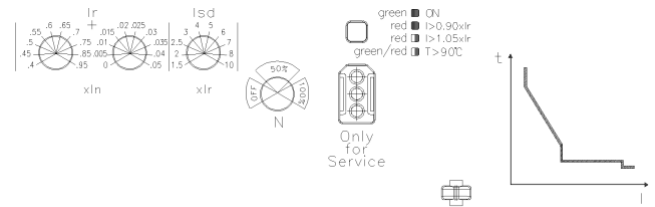
Altitude (m)	2000	3000	4000	5000
U _e (V)	690	590	520	460
I _n (A) (T _a = 40°C/50°C)	I _n	0.98 x I _n	0.93 x I _n	0.9 x I _n

5.5.3 Use at 400 Hz or in DC

Not possible with electronic release.

6 ELECTRONIC RELEASES

6.1 Version S1 – Adjustment of I_r, I_{sd}



Long delay protection against overloads with an adjustable threshold bases on the RMS value of the current:

- $I_r = 0.4 \div 1 I_n$ (steps 1A)

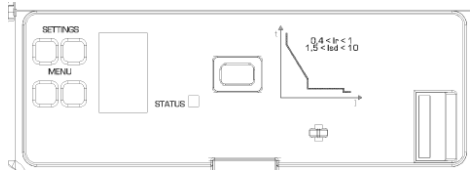
Short delay protection against short-circuits with an adjustable I_{sd} threshold:

- $I_{sd} = 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 \times I_r$ (11 steps)

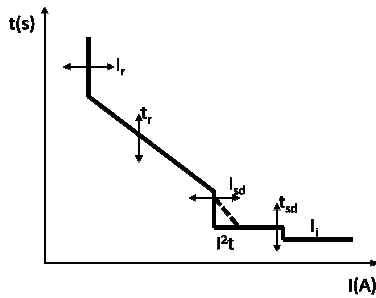
Instantaneous protection with fixed threshold:

- 500A I_i = 15kA,
- 630,800A I_i = 15kA,
- 1000A I_i = 15kA,
- 1250A I_i = 15kA,
- 1600A I_i = 20kA

6.2 Version S2 – Adjustment of I_r , T_r , I_{sd} , T_{sd}



LCD display with adjustment buttons, battery case and USB port.



Long delay protection against overloads with an adjustable threshold bases on the RMS value of the current:

- $I_r = 0.4 \div 1 I_n$ (steps 1A)
- $T_r = 3 - 30s$ (3 - 5 - 10 - 15 - 20 - 25 - 30) (7 steps)

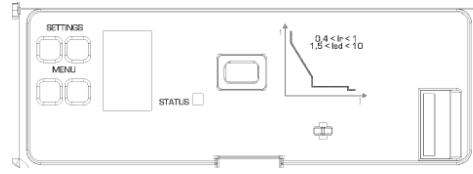
Short delay protection against short-circuits with an adjustable I_{sd} threshold:

- $I_{sd} = 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 \times I_r$ (11 steps)
- $T_{sd} = 0 - 100 - 200 - 300 - 400 - 500$ ms ($I = K$)
- $T_{sd} = 0 - 100 - 200 - 300 - 400 - 500$ ms ($I^2t = K$)

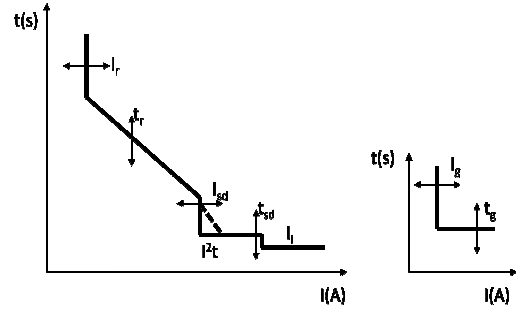
Instantaneous protection with fixed threshold:

- 500A $I_i = 15kA$,
- 630,800A $I_i = 15kA$,
- 1000A $I_i = 15kA$,
- 1250A $I_i = 15kA$,
- 1600A $I_i = 20kA$

6.3 Version Sg - Adjustment of I_r , T_r , I_{sd} , T_{sd} , I_g , T_g



LCD display with adjustment buttons, battery case and USB port.



Long delay protection against overloads with an adjustable threshold bases on the RMS value of the current:

- $I_r = 0.4 \div 1 I_n$ (steps 1A)
- $T_r = 3 - 30s$ (3 - 5 - 10 - 15 - 20 - 25 - 30) (7 steps)

Short delay protection against short-circuits with an adjustable I_{sd} threshold :

- $I_{sd} = 1.5 - 2 - 2.5 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 \times I_r$ (11 steps)
- $T_{sd} = 0 - 100 - 200 - 300 - 400 - 500$ ms ($I = K$)
- $T_{sd} = 0 - 100 - 200 - 300 - 400 - 500$ ms ($I^2t = K$)

Instantaneous protection with fixed threshold:

- 500A $I_i = 15kA$,
- 630,800A $I_i = 15kA$,
- 1000A $I_i = 15kA$,
- 1250A $I_i = 15kA$,
- 1600A $I_i = 20kA$

Measure of ground fault:

- $I_g : 0.2 - 0.3 - 0.4 - 0.5 - 0.6 - 0.7 - 0.8 - 0.9 - 1 \times I_n$ (9 steps) and OFF
- $T_g : 0.1 - 0.2 - 0.3 - 0.4 - 0.5 - 1$ s

DPX³ 1600

Electronic release

Reference(s) : from 422 298 to 422 488 and
from 422 538 to 422 584

7. CONFORMITY

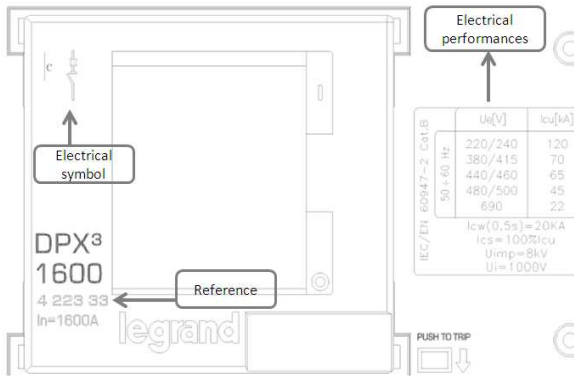
DPX³ range of product concerning circuit-breakers are in full compliance with the EN/IEC standard 60947-2.

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

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

DPX³ are full in compliance with the Shipping Register of Lloyds, RINA, Bureau Veritas, Germanische Lloyds, Norske Veritas and ABS.

7.1 MARKING



" Tropical climate " :

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

8. EQUIPMENTS AND ACCESSORIES

8.1 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

8.2 Auxiliary contact

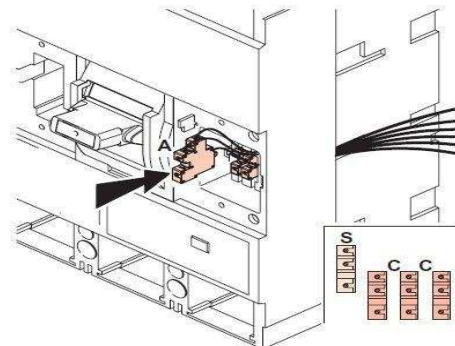
Changeover switch 3A – 250 V AC ref. 4 210 11

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



DPX³ 1600

Electronic release

Reference(s) : from 422 298 to 422 488 and
from 422 538 to 422 584

8.3 Rotary handles

- Direct on DPX³
- Standard (black) ref. 0 262 61
- Vari-depth handle IP55
- Standard (black) ref. 0 262 83
 - For emergency use (red / yellow)
Adapting on standard handle ref. 0 262 84

Locking accessories

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

8.4 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 (cod.ABA90GEL6149) ref. 0 261 59
- Profalux type (cod.HBA90GPS6149) ref. 0 261 58

8.5 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

8.6 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

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

8.8 Supply

- Auxiliary supply (input 24 V AC/DC) ref. 4 210 83

8.9 RS485 ModBus communication interface

- To connect electronic DPX³ to an RS485 ModBus communication network ref. 4 210 75

8.10 Web server

- For remote viewing of values collected on electricity meters and multi-function measuring units
Up to 32 metering points ref. 0 261 78
Up to 255 metering points ref. 0 261 79

8.11 Software

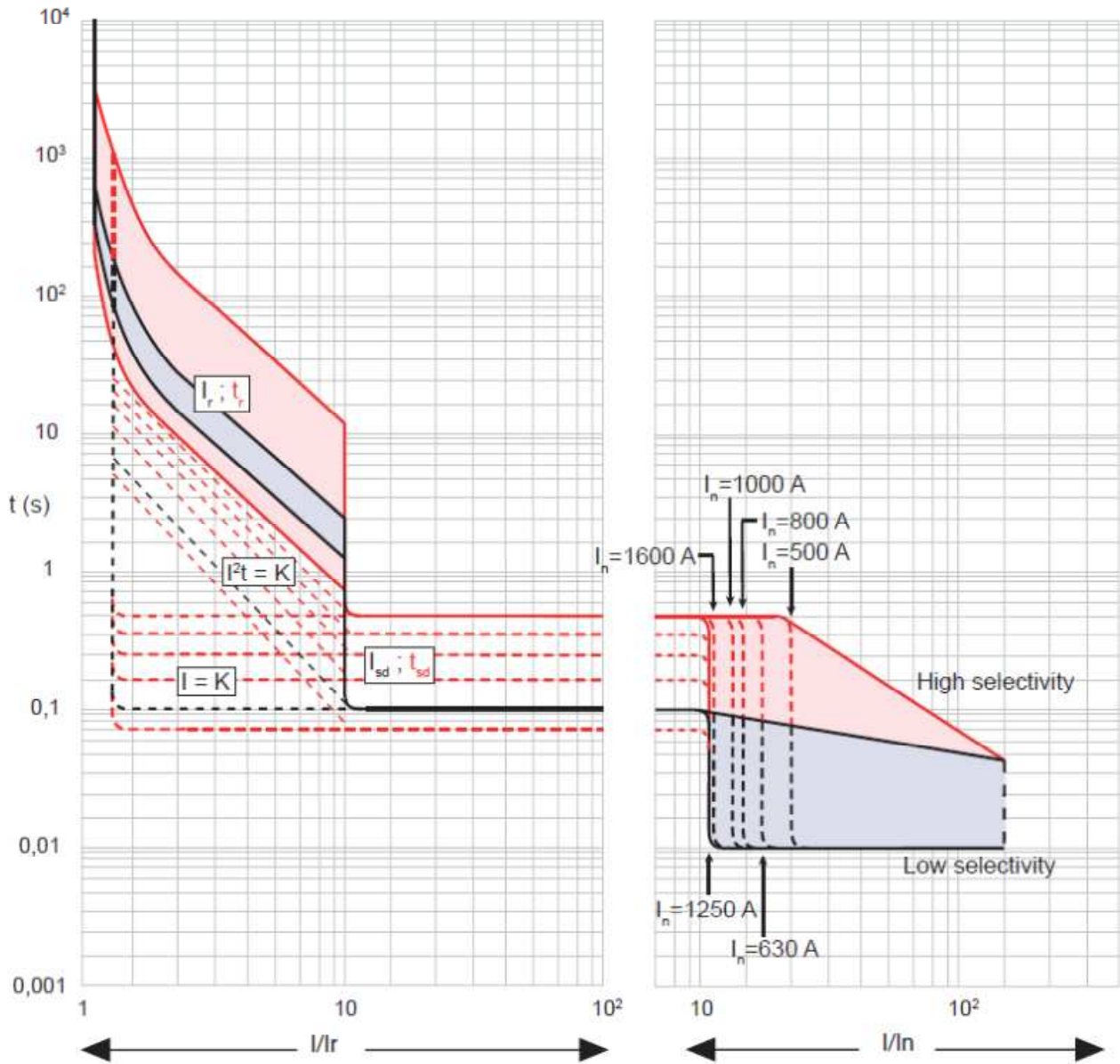
- To display values collected on electricity meters and multi-function measuring units on a PC connected to the network
Up to 32 metering points ref. 0 261 88
Up to 255 metering points ref. 0 261 89

8.12 Touch screen

- To show data collected by DX³, DPX³, DMX³, EMDX³. It can manage up to 8 devices ref. 0 261 56

9. CURVES

9.1 TRIPPING CURVE (COLD START)

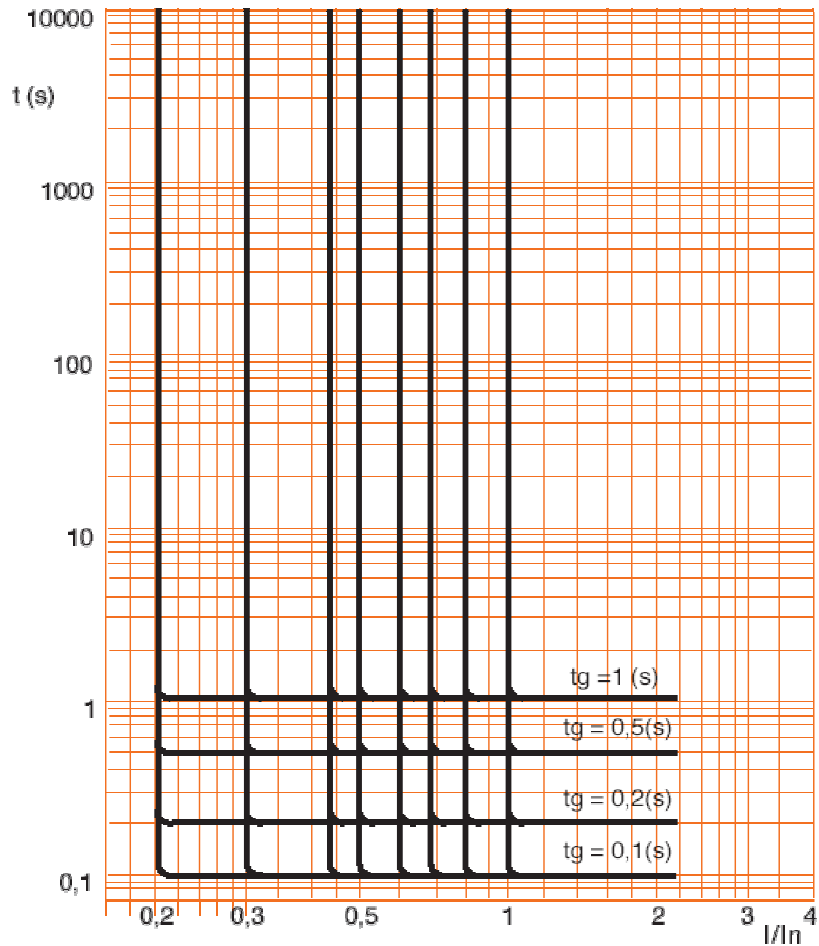


$I_{cu} = 36-50-70-100 \text{ kA}$ $I_{max} = 1600\text{A}$ 3-4 P $U_o = 415\text{Vac}$

Value	Description
t	time
I	current
I_n	rated current
I_r	long time setting current
t_r	long time delay
I_{sd}	short time setting current
t_{sd}	short time delay
$I^2t = K$	Constant pass-through energy setting
$I = K$	Constant tripping time setting
Black area	For S1, S2 and Sg versions
Red area	Only for S2 and Sg versions

9.1 TRIPPING CURVE (NEXT)

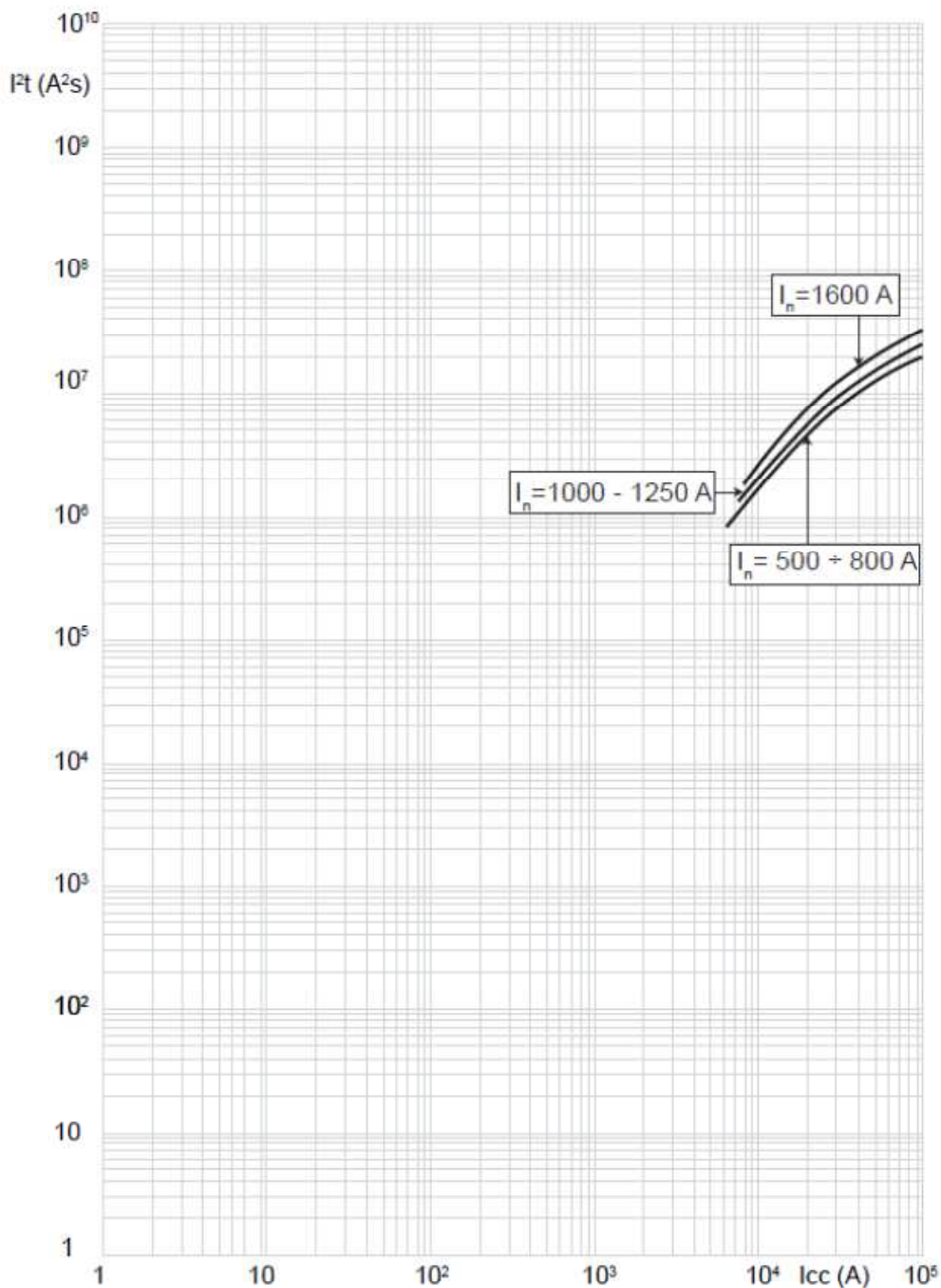
Only Sg version



$I_{max} = 1600A$ 3-4 P $U_e = 415Vac$

Value	Description
t	time
I	current
I_n	rated current
t_g	Ground fault time delay

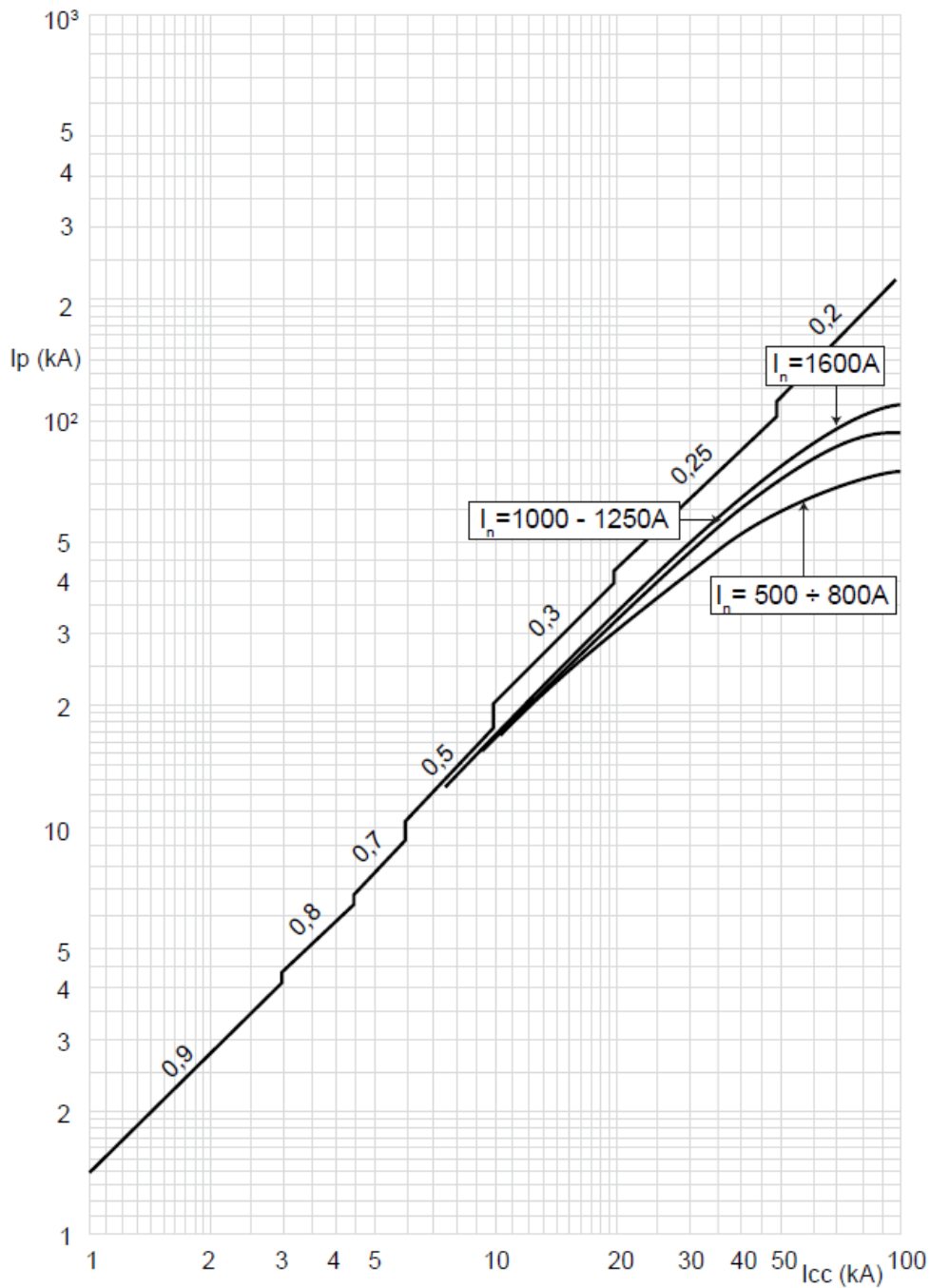
9.2 RESTRICTED CURVE IN THERMAL CONSTRAINT



$I_{cu} = 36-50-70-100$ kA $I_{max} = 1600$ A 3-4 P $U_e = 415$ Vac

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

9.3 RESTRICTED CURRENT CURVE



$I_{cu} = 36-50-70-100 \text{ kA}$ $I_{max} = 1600A$ 3-4 P $U_e = 415Vac$

Value	Description
I_{cc}	short circuit current
I_p	peak current

DPX³ 1600

Electronic release

Reference(s) : from 422 298 to 422 488 and
from 422 538 to 422 584

A) Derating Temperature and configurations

	Ambient temperature									
	30 °C		40 °C		50 °C		60 °C		70 °C	
	I_{max} (A)	I_r / I_n	I_{max} (A)	I_r / I_n	I_{max} (A)	I_r / I_n	I_{max} (A)	I_r / I_n	I_{max} (A)	I_r / I_n
Fixed version										
Spreaders, flexible cable	1600	1	1600	1	1600	1	1360	0.85	1200	0.75
Spreaders, rigid cable	1600	1	1600	1	1600	1	1360	0.85	1200	0.75
Spreaders, bars 2x50x10 Cu	1600	1	1600	1	1600	1	1520	0.95	1360	0.85
Rear flat terminals, bars 4x50x5 Cu, horizontal	1600	1	1600	1	1600	1	1600	1	1440	0.9
Rear flat staggered terminals, bars 4x50x5 Cu, horizontal	1600	1	1600	1	1600	1	1600	1	1440	0.9
Draw-out version										
Spreaders, flexible cable	1600	1	1600	1	1600	1	1280	0.8	1120	0.7
Spreaders, rigid cable	1600	1	1600	1	1600	1	1280	0.8	1120	0.7
Spreaders, bars 2x50x10 Cu	1440	0.9	1440	0.9	1440	0.9	1120	0.7	960	0.6
Rear flat terminals, bars 2x100x5 Cu, vertical	1440	0.9	1440	0.9	1440	0.9	1120	0.7	960	0.6
Rear flat staggered terminals, bars 2x100x5 Cu, vertical	1440	0.9	1440	0.9	1440	0.9	1120	0.7	960	0.6
Rear flat terminals, bars 4x50x5 Cu, horizontal	1600	1	1600	1	1600	1	1440	0.9	1120	0.7
Rear flat staggered terminals, bars 4x50x5 Cu, horizontal	1600	1	1600	1	1600	1	1440	0.9	1120	0.7

	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

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

	S
In ≥ 1000A	12 mm
In < 1000A	8 mm

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

A	1,5	63
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②

	3P	4P
A	70	140

③

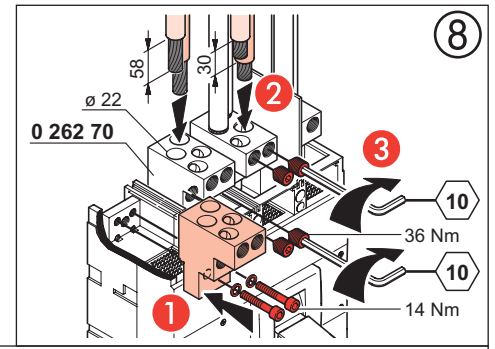
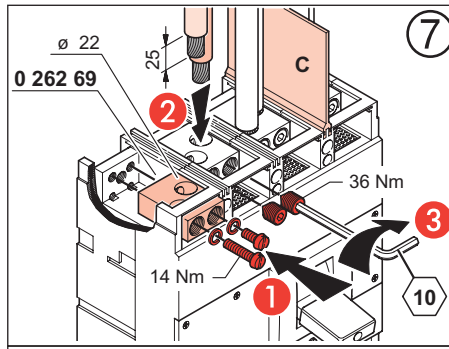
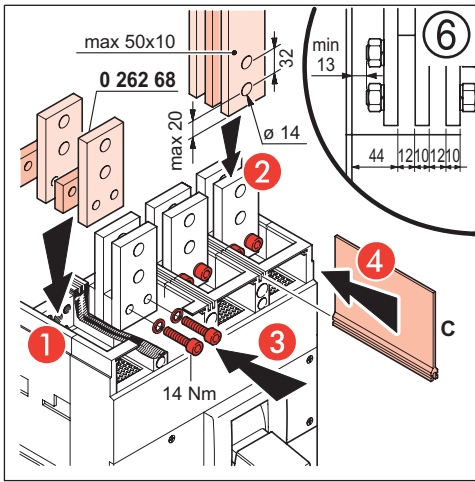
④



⑤

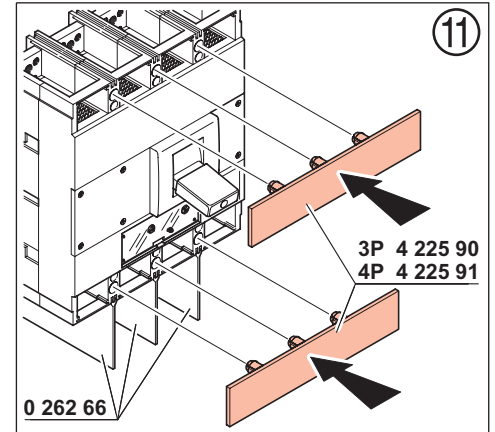
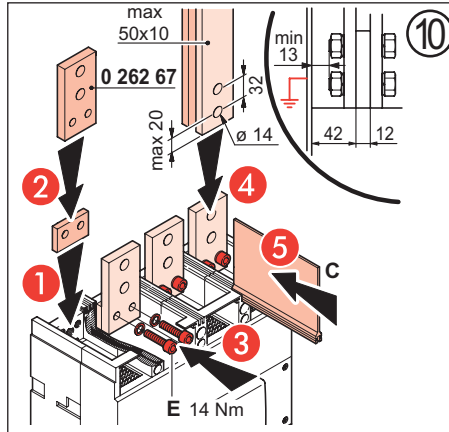
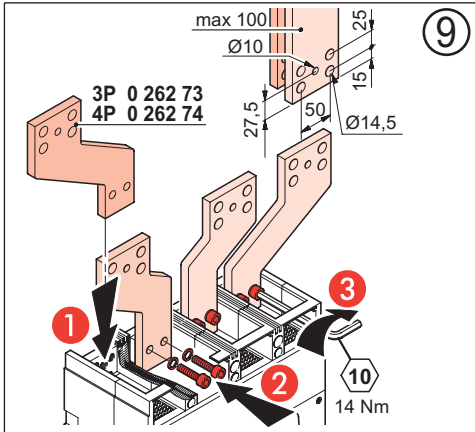
NO

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)



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(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。任何未经授权拆开或维修将被完全取消更换和保证的权利。