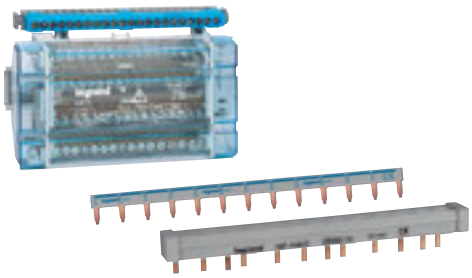
MCBs DX-E 6000 - 6 kA
thermal magnetic MCBs from 6 A to 63 A


0 032 70


0 033 28


0 034 33


Supply busbars and modular distribution blocks **p. 188**

Dimensions **see e-catalogue**

Conform to IEC 60898-1
Breaking capacity
6000 - IEC 60898-1 - 400 V~
6 kA - IEC 60947-2 - 400 V~
Do not accept add-on modules
For auxiliaries, please consult us

MCBs DX-E 6000 - 6 kA - B curve

Pack	Cat.Nos B curve	Nominal rating In (A)	Number of modules
		Single pole 230/400 V~	
10	0 032 66	6	1
10	0 032 68	10	1
10	0 032 69	13	1
10	0 032 70	16	1
10	0 032 71	20	1
10	0 032 72	25	1
10	0 032 73	32	1
10	0 032 74	40	1
10	0 032 75	50	1
10	0 032 76	63	1
		2-pole 230/400 V~	
5	0 033 08	6	2
5	0 033 10	10	2
5	0 033 11	13	2
5	0 033 12	16	2
5	0 033 13	20	2
5	0 033 14	25	2
5	0 033 15	32	2
5	0 033 16	40	2
5	0 033 17	50	2
5	0 033 18	63	2
		3-pole 400 V~	
1	0 033 22	6	3
1	0 033 24	10	3
1	0 033 25	13	3
1	0 033 26	16	3
1	0 033 27	20	3
1	0 033 28	25	3
1	0 033 29	32	3
1	0 033 30	40	3
1	0 033 31	50	3
1	0 033 32	63	3
		4-pole 400 V~	
1	0 033 68	6	4
1	0 033 70	10	4
1	0 033 71	13	4
1	0 033 72	16	4
1	0 033 73	20	4
1	0 033 74	25	4
1	0 033 75	32	4
1	0 033 76	40	4
1	0 033 77	50	4
1	0 033 78	63	4

MCBs DX-E 6000 - 6 kA - C curve

Pack	Cat.Nos C curve	Nominal rating In (A)	Number of modules
		Single pole 230/400 V~	
10	0 033 82	6	1
10	0 033 84	10	1
10	0 033 85	13	1
10	0 033 86	16	1
10	0 033 87	20	1
10	0 033 88	25	1
10	0 033 89	32	1
10	0 033 90	40	1
10	0 033 91	50	1
10	0 033 92	63	1
		2-pole 230/400 V~	
5	0 034 29	6	2
5	0 034 31	10	2
5	0 034 32	13	2
5	0 034 33	16	2
5	0 034 34	20	2
5	0 034 35	25	2
5	0 034 36	32	2
5	0 034 37	40	2
5	0 034 38	50	2
5	0 034 39	63	2
		3-pole 230/400 V~	
1	0 034 47	6	3
1	0 034 49	10	3
1	0 034 50	13	3
1	0 034 51	16	3
1	0 034 52	20	3
1	0 034 53	25	3
1	0 034 54	32	3
1	0 034 55	40	3
1	0 034 56	50	3
1	0 034 57	63	3
		4-pole 230/400 V~	
1	0 034 89	6	4
1	0 034 91	10	4
1	0 034 92	13	4
1	0 034 93	16	4
1	0 034 94	20	4
1	0 034 95	25	4
1	0 034 96	32	4
1	0 034 97	40	4
1	0 034 98	50	4
1	0 034 99	63	4

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M.C.B. DX-E 6 kA

Cat. N°(s) : 0032 66 à 0034 99

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1. DESCRIPTION - USE

Thermo-magnetic circuit breaker with positive contact indication for control, protection and isolation of electrical circuits.

Symbol :

Technology :
. Limiting device
. 1 module (17.8 mm) per pole

2. RANGE

Rated currents :
. 6 / 10 / 13 / 16 / 20 / 25 / 32 / 40 / 50 / 63 A

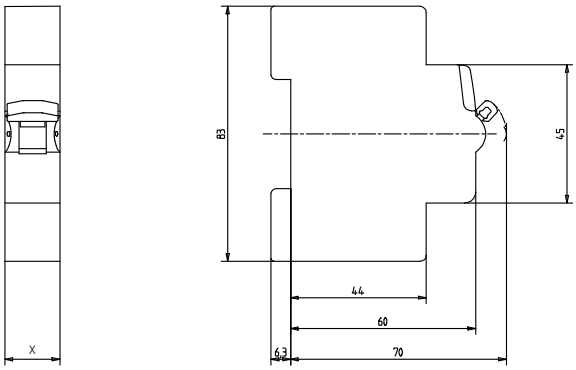
Poles :
. 1P, 1P+N, 2P, 3P, 4P

Magnetic tripping curves :
. B (between 3 and 5 In) and C (between 5 and 10 In)

Rated voltage / frequency :
. 230 V ~ / 400 V ~ - 50 / 60 Hz with standard tolerances

Maximum operating voltage :
. 240 V ~ / 415 V ~

3. OVERALL DIMENSIONS



	1P	P+N / 2P	3P	4P
X	17.7 mm	35.6 mm	53.4 mm	71.2 mm

4. PREPARATION – CONNECTION

Fixing :
. On symmetrical rail EN 60.715 or DIN 35

Supply :
. from the top or the bottom

Type of wire :
. Copper cables

.	Without ferrule	With ferrule
Rigid cable	1 x 1.5 to 35 mm² 2 x 1.5 to 16 mm²	-
Flexible cable	1 x 1.5 to 25 mm² 2 x 1.5 to 10 mm²	1 x 1.5 to 25 mm²

Connection :
. Location of the terminals allowing supply by pin busbar and fork busbar (lower side)
. Terminals protected against direct contact (IP 20 mcb connected)
. Cage terminals, with release and captive screws
. Terminal depth : 14 mm
. Screw head : slotted and pozidriv n° 1
. Tightening torque :
- Mini = 1.2 Nm
- Maxi = 2.8 Nm
- Recommended = 1.6 à 2 Nm

Sealing :
. Possible in ON (closed) and OFF (open) position

4. PREPARATION – CONNECTION *(continued)*

Locking possibility :

. By 5 mm padlock (cat. N° 044 43) or 6 mm padlock (cat. N° 227 97) with padlock support (cat. N° 044 42)

Operation :

. By 2 position ergonomic handle
I / ON : Circuit closed
O / OFF : Circuit open

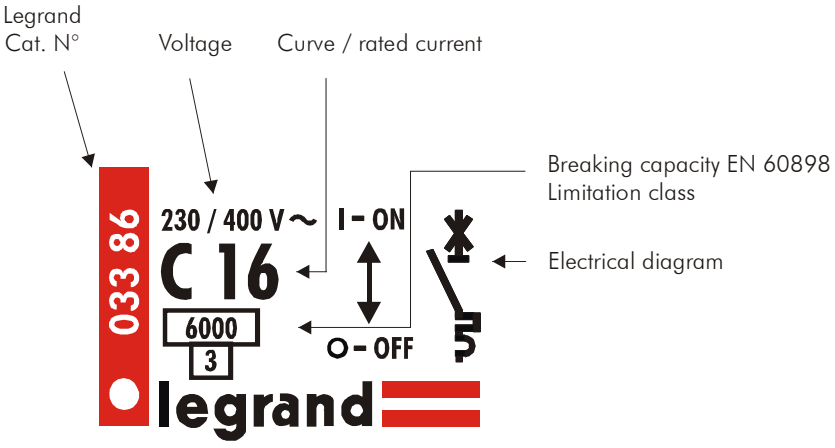
4. PREPARATION – CONNECTION *(continued)*

Tools required :

. For fixing on rail : 5.5 mm screwdriver recommended
. For terminals : 5.5 mm screwdriver recommended

5. GENERAL CHARACTERISTICS

Front face marking : by permanent pad printing



Breaking capacity :

. in single phase or triple phase network (AC 50 / 60 Hz)

		Tension	1P / 1P+N	2P	3P / 4P
According to EN 60898 standard	Icn	127 V ~	**10 kA**	**15 kA**	**10 kA**
		230 V ~	**6 kA**	**10 kA**	**10 kA**
		400 V ~	**-**	**6 kA**	**6 kA**
According to IEC 60947-2 standard	Icu	127 V ~	**10 kA**	**15 kA**	**10 kA**
		230 V ~	**6 kA**	**10 kA**	**10 kA**
		400 V ~	**-**	**6 kA**	**6 kA**
	Ics	127 V ~	**100% Icu**	**100 % Icu**	**100 % Icu**
		230 V ~	**100 % Icu**	**100 % Icu**	**100 % Icu**
		400 V ~	**-**	**100 % Icu**	**100 % Icu**

5. GENERAL CHARACTERISTICS *(continued)*

Breaking capacity of 1 pole (phase) :
. Under 400 V ~, according to I_{IT} EN 60947-2 – Annex H : 3 kA

Pollution degree :
. 2 according to EN 60898-1

Isolating voltage :
. Ui = 500 V ~ according to EN 60898

Energy limitation class :
. class 3 up to 40 A according to EN 60898

Dielectric strength :
. 2500 V ~

Rated voltage of shock withstand :
. Uimp = 4 kV

Temperatures :
. Operation : -25°C to +70°C (see derating table)
. Stock : -40°C to +70°C

Frequency :
. Magnetic tripping in term of frequency
- 16 Hz à 60 Hz : no derating
- 400 Hz : 45% increase of the tripping threshold

Operation with DC current :
. 80 V DC max per pole :
- Icu = 4 kA under 80 V DC according to EN 60947-2
- Icu = 6 kA under 48 V DC according to EN 60947-2
- derating of magnetic threshold : 40% increase of the magnetic threshold

Neutral earth connection :
. IT, TT, TN

Isolation distance :
. Distance between contacts more than 5 mm (handle in open position)

Isolation :
. may be use as an isolator according to EN 60898

Electrical and mechanical endurance :
. 20 000 operations without load
. 10 000 operations with a load (In x Cos φ 0.9)
. 2 000 operations with In DC current

5. GENARAL CHARACTERISTICS *(continued)*

Dissipated power and impedance :
. Dissipated power per pole (phase pole) under In, in Watts

Rated current	6 A	10 A	13 A	16 A	20 A
P (W)	**1.1**	**1.1**	**1.3**	**1.5**	**1.7**

Rated current	25 A	32 A	40 A	50 A	63 A
P (W)	**2.4**	**3.1**	**4**	**4.5**	**5.5**

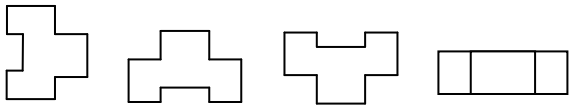
. Impédance : Z = P / I² en Ohms

Strength for opening and closing by the handle :
. opening : 0.3 Nm per pole (every rated current)
. closing : 0.5 Nm per pole (every rated current)

Plastic material :
DX-E 1P ≤ 25 A
. Urea : self estinguishing, heat and fire resistant according to EN 60898, glow wire test at 960°C (650°C for the handle)

DX-E 1P >25 A and DX-E 1P+N/2P/3P/4P every rated current
. Polyester : self estinguishing, heat and fire resistant according to EN 60898, glow wire test at 960°C (650°C for the handle)

Operating position :
.Vertical Horizontal Upside down On the side



Protection degree :
. Ingress protection of terminals : IP20 according to IEC 60529
. Ingress protection of front face : IP40 according to IEC 60529
. Protection against mechanical shocks : IK04 according to EN 50102

Average weight per pole :
. 0.160 kg per pole

Volume and packaging :

	Volume (dm3)	packaging
1P	**1.6**	**Per 10**
1P+N and 2P	**1.6**	**Per 5**
3P and 4P	**0.7**	**Per 1**

5. GENERAL CHARACTERISTICS *(continued)*

Selectivity, m.c.b. with m.c.b. (in amps) :

Downstream m.c.b.	Upstream m.c.b.								
DX-E Curve B	DX 6000A/10kA – DX-h 10000A/25kA – DX-L 50kA Curve B								
In	10 A	13 A	16 A	20 A	25 A	32 A	40 A	50 A	63 A
6 A	**40 A**	**52 A**	**64 A**	**80 A**	**100 A**	**128 A**	**160 A**	**200 A**	**252 A**
10 A		**52 A**	**64 A**	**80 A**	**100 A**	**128 A**	**160 A**	**200 A**	**252 A**
13 A			**64 A**	**80 A**	**100 A**	**128 A**	**160 A**	**200 A**	**252 A**
16 A				**80 A**	**100 A**	**128 A**	**160 A**	**200 A**	**252 A**
20 A					**100 A**	**128 A**	**160 A**	**200 A**	**252 A**
25 A						**128 A**	**160 A**	**200 A**	**252 A**
32 A							**160 A**	**200 A**	**252 A**
40 A								**200 A**	**252 A**
50 A									**252 A**
63 A									

Downstream m.c.b.	Upstream m.c.b.								
DX-E Curve C	DX 6000A/10kA – DX-h 10000A/25kA – DX-L 50kA Curve B								
In	10 A	13 A	16 A	20 A	25 A	32 A	40 A	50 A	63 A
6 A			**64 A**	**80 A**	**100 A**	**128 A**	**160 A**	**200 A**	**252 A**
10 A					**100 A**	**128 A**	**160 A**	**200 A**	**252 A**
13 A						**128 A**	**160 A**	**200 A**	**252 A**
16 A							**160 A**	**200 A**	**252 A**
20 A								**200 A**	**252 A**
25 A									**252 A**
32 A									
40 A									
50 A									
63 A									

5. GENERAL CHARACTERISTICS *(continued)*

Selectivity, m.c.b. with m.c.b. (in amps) :

Downstream m.c.b.	Upstream m.c.b.											
DX-E Curve B	DX 6000A/10kA – DX-h 10000A/25kA – DX-L 50kA Curve C											
In	10 A	13 A	16 A	20 A	25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A
6 A	**75**	**90**	**120**	**150**	**187**	**240**	**300**	**375**	**472**	**480**	**500**	**750**
10 A		**90**	**120**	**150**	**187**	**240**	**300**	**375**	**472**	**480**	**500**	**750**
13 A			**120**	**150**	**187**	**240**	**300**	**375**	**472**	**480**	**500**	**750**
16 A				**150**	**187**	**240**	**300**	**375**	**472**	**480**	**500**	**750**
20 A					**187**	**240**	**300**	**375**	**472**	**480**	**500**	**750**
25 A						**240**	**300**	**375**	**472**	**480**	**500**	**750**
32 A							**300**	**375**	**472**	**480**	**500**	**750**
40 A								**375**	**472**	**480**	**500**	**750**
50 A									**472**	**480**	**500**	**750**
63 A										**480**	**500**	**750**

Downstream m.c.b.	Upstream m.c.b.											
DX-E Curve C	DX 6000A/10kA – DX-h 10000A/25kA – DX-L 50kA Curve C											
In	10 A	13 A	16 A	20 A	25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A
6 A	**75**	**90**	**120**	**150**	**187**	**240**	**300**	**375**	**472**	**480**	**500**	**750**
10 A		**90**	**120**	**150**	**187**	**240**	**300**	**375**	**472**	**480**	**500**	**750**
13 A			**120**	**150**	**187**	**240**	**300**	**375**	**472**	**480**	**500**	**750**
16 A				**150**	**187**	**240**	**300**	**375**	**472**	**480**	**500**	**750**
20 A					**187**	**240**	**300**	**375**	**472**	**480**	**500**	**750**
25 A						**240**	**300**	**375**	**472**	**480**	**500**	**750**
32 A							**300**	**375**	**472**	**480**	**500**	**750**
40 A								**375**	**472**	**480**	**500**	**750**
50 A									**472**	**480**	**500**	**750**
63 A										**480**	**500**	**750**

5. GENERAL CHARACTERISTICS *(continued)*

Selectivity, m.c.b. with m.c.b. (in amps) :

Downstream m.c.b.	Upstream m.c.b.											
DX-E Curve B	DX 6000A/15kA – DX-D 25kA Curve D											
In	10 A	13 A	16 A	20 A	25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A
6 A	**120**	**156**	**192**	**240**	**300**	**384**	**480**	**600**	**756**	**800**	**1200**	**1500**
10 A		**156**	**192**	**240**	**300**	**384**	**480**	**600**	**756**	**800**	**1200**	**1500**
13 A			**192**	**240**	**300**	**384**	**480**	**600**	**756**	**800**	**1200**	**1500**
16 A				**240**	**300**	**384**	**480**	**600**	**756**	**800**	**1200**	**1500**
20 A					**300**	**384**	**480**	**600**	**756**	**800**	**1200**	**1500**
25 A						**384**	**480**	**600**	**756**	**800**	**1200**	**1500**
32 A							**480**	**600**	**756**	**800**	**1200**	**1500**
40 A								**600**	**756**	**800**	**1200**	**1500**
50 A									**756**	**800**	**1200**	**1500**
63 A										**800**	**1200**	**1500**

Downstream m.c.b.	Upstream m.c.b.											
DX-E Curve C	DX 6000A/15kA – DX-D 25kA Curve D											
In	10 A	13 A	16 A	20 A	25 A	32 A	40 A	50 A	63 A	80 A	100 A	125 A
6 A	**120**	**156**	**192**	**240**	**300**	**384**	**480**	**600**	**756**	**800**	**1200**	**1500**
10 A		**156**	**192**	**240**	**300**	**384**	**480**	**600**	**756**	**800**	**1200**	**1500**
13 A			**192**	**240**	**300**	**384**	**480**	**600**	**756**	**800**	**1200**	**1500**
16 A				**240**	**300**	**384**	**480**	**600**	**756**	**800**	**1200**	**1500**
20 A					**300**	**384**	**480**	**600**	**756**	**800**	**1200**	**1500**
25 A						**384**	**480**	**600**	**756**	**800**	**1200**	**1500**
32 A							**480**	**600**	**756**	**800**	**1200**	**1500**
40 A								**600**	**756**	**800**	**1200**	**1500**
50 A									**756**	**800**	**1200**	**1500**
63 A										**800**	**1200**	**1500**

5. GENERAL CHARACTERISTICS *(continued)*

Selectivity, m.c.b. with m.c.c.b. (in amps) :

T = Total selectivity up to breaking capacity of the downstream m.c.b. according to IEC 60947-2

Downstream m.c.b.	Upstream m.c.c.b.														
DX-E Curves B & C	DPX 125				DPX 160		DPX ER 250				DPX DPX-H DPX-L 250				DPX /H/L 400 à 1600
In	40A	63A	100A	125A	100A	160A	63A	100A	160A	250A	63A	100A	160A	250A	1600A
6 A	**6000**	**6000**	**T**	**T**	**T**	**T**	**T**	**T**	**T**	**T**	**6000**	**T**	**T**	**T**	**T**
10 A	**5000**	**5000**	**7500**	**7500**	**7000**	**T**	**7000**	**T**	**T**	**T**	**5000**	**T**	**T**	**T**	**T**
13 A	**4000**	**4000**	**6000**	**6000**	**6000**	**T**	**6000**	**T**	**T**	**T**	**4000**	**T**	**T**	**T**	**T**
16 A	**4000**	**4000**	**6000**	**6000**	**6000**	**T**	**5500**	**9500**	**T**	**T**	**4000**	**T**	**T**	**T**	**T**
20 A	**3000**	**3000**	**5000**	**5000**	**5000**	**T**	**5500**	**8500**	**T**	**T**	**3000**	**8000**	**T**	**T**	**T**
25 A	**3000**	**3000**	**4500**	**4500**	**4000**	**8500**	**4500**	**7000**	**8500**	**T**	**3000**	**6000**	**T**	**T**	**T**
32 A		**2000**	**4000**	**4000**	**3500**	**7000**	**4500**	**5500**	**7000**	**T**	**2000**	**5000**	**T**	**T**	**T**
40 A		**2000**	**3000**	**3000**	**2500**	**6000**		**5500**	**6000**	**T**	**2000**	**5000**	**T**	**T**	**T**
50 A			**3000**	**3000**	**2000**	**5500**		**4500**	**5500**	**T**		**4000**	**8000**	**T**	**T**
63 A			**3000**	**3000**		**5000**		**4500**	**5000**	**8000**		**4000**	**8000**	**T**	**T**

5. GENERAL CHARACTERISTICS *(continued)*

Selectivity, m.c.b. with fuse (in amps) :

T = Total selectivity up to breaking capacity of the downstream m.c.b. according to IEC 60947-2

Downstream m.c.b.	Upstream cartridge fuse							
DX-E Curves B & C	Cartridge type Gg							
In	32 A	40 A	50 A	63 A	80 A	100 A	125 A	160 A
6 A	**1600**	**1900**	**2500**	**4000**	**4600**	**T**	**T**	**T**
10 A		**1600**	**2200**	**3200**	**3600**	**7000**	**T**	**T**
13 A		**1600**	**2200**	**3200**	**3600**	**7000**	**T**	**T**
16 A		**1400**	**1800**	**2600**	**3000**	**5600**	**8000**	**T**
20 A		**1200**	**1500**	**2200**	**2500**	**4600**	**6300**	**T**
25 A			**1300**	**2000**	**2200**	**4100**	**5500**	**8000**
32 A			**1200**	**1700**	**1900**	**3500**	**4500**	**7000**
40 A					**1700**	**3000**	**4000**	**5000**
50 A					**1600**	**2600**	**3500**	**4500**
63 A						**2400**	**3300**	**4500**

Downstream m.c.b.	Upstream cartridge fuse							
DX-E Curves B & C	Cartridge type Am							
In	32 A	40 A	50 A	63 A	80 A	100 A	125 A	160 A
6 A	**1300**	**2100**	**3200**	**6200**	**T**	**T**	**T**	**T**
10 A	**1100**	**1700**	**2500**	**5000**	**7800**	**T**	**T**	**T**
13 A	**1100**	**1700**	**2500**	**5000**	**7800**	**T**	**T**	**T**
16 A	**1000**	**1400**	**2100**	**4000**	**6000**	**9000**	**T**	**T**
20 A		**1300**	**1800**	**3400**	**5100**	**7000**	**T**	**T**
25 A		**1100**	**1600**	**3000**	**4500**	**6000**	**9300**	**T**
32 A			**1300**	**2400**	**3800**	**5000**	**7700**	**T**
40 A				**2100**	**3100**	**4200**	**6400**	**8000**
50 A				**2000**	**2900**	**3700**	**6000**	**7000**
63 A					**2800**	**3500**	**5500**	**7000**

5. GENERAL CHARACTERISTICS *(continued)*

Derating in terms of ambient temperature :

M.c.b. is set to operate at In at 30°C ambient temperature.
Depending on the temperature inside the enclosure, it may be necessary to derate m.c.b.'s according to the table below :

In (A)	-25°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C
6	**7.5**	**7**	**6.6**	**6.4**	**6.2**	**6**	**5.8**	**5.6**	**5.4**	**5.2**
10	**12.5**	**11.5**	**11.1**	**10.7**	**10.3**	**10**	**9.7**	**9.3**	**9**	**8.7**
13	**16.3**	**15**	**14.3**	**13.9**	**13.4**	**13**	**12.6**	**12.1**	**11.7**	**11.3**
16	**20**	**18.7**	**18**	**17.3**	**16.6**	**16**	**15.4**	**14.7**	**14.1**	**13.5**
20	**25**	**23.2**	**22.4**	**21.6**	**20.8**	**20**	**19.2**	**18.4**	**17.6**	**16.8**
25	**31.5**	**29.5**	**28.3**	**27.2**	**26**	**25**	**24**	**22.7**	**21.7**	**20.7**
32	**41**	**37.8**	**36.5**	**34.9**	**33.3**	**32**	**30.7**	**29.1**	**27.8**	**26.5**
40	**51**	**48**	**46**	**44**	**42**	**40**	**38**	**36**	**34**	**32**
50	**64**	**60**	**57.5**	**55**	**52.5**	**50**	**47.5**	**45**	**42.5**	**40**
63	**80.5**	**75.5**	**72.5**	**70**	**66**	**63**	**60**	**56**	**53**	**50**

Derating in terms of numbers m.c.b.'s installed side by side :

Values of the correction factor are given by IEC 60439-1 standard.

Number of m.c.b.'s side by side	Factor
2 & 3	**1**
4 & 5	**0.8**
6 to 9	**0.7**
More than 10	**0.6**

In order to avoid having to use these factors, devices should be separated with spacing units cat. N° 044 40 (half module wide) or cat. N° 044 41 (one module wide).

5. GENERAL CHARACTERISTICS *(continued)*

Derating for use with fluorescent lights

. Ballast power = 25 % of the power of the light
. Power factor = 0.85 for compensated lights and 0.6 for non compensated lights

Single phase 230 V supply								
Fluorescent lights	Power (W)	Rated current (A) Number of lights						
		6 A	10 A	16 A	20 A	25 A	32 A	40 A
Mono non compensated lights	18	**26**	**44**	**70**	**88**	**110**	**141**	**176**
	36	**13**	**22**	**35**	**44**	**55**	**70**	**88**
	58	**8**	**14**	**22**	**27**	**34**	**43**	**54**
Mono compensated lights	18	**38**	**63**	**101**	**126**	**158**	**203**	**253**
	36	**19**	**32**	**50**	**63**	**78**	**101**	**126**
	58	**12**	**19**	**31**	**39**	**49**	**62**	**78**
Duo compensated lights	2 x 18	**19**	**32**	**50**	**63**	**78**	**101**	**126**
	2 x 36	**9**	**15**	**25**	**32**	**39**	**50**	**63**
	2 x 58	**5**	**9**	**15**	**19**	**24**	**31**	**39**

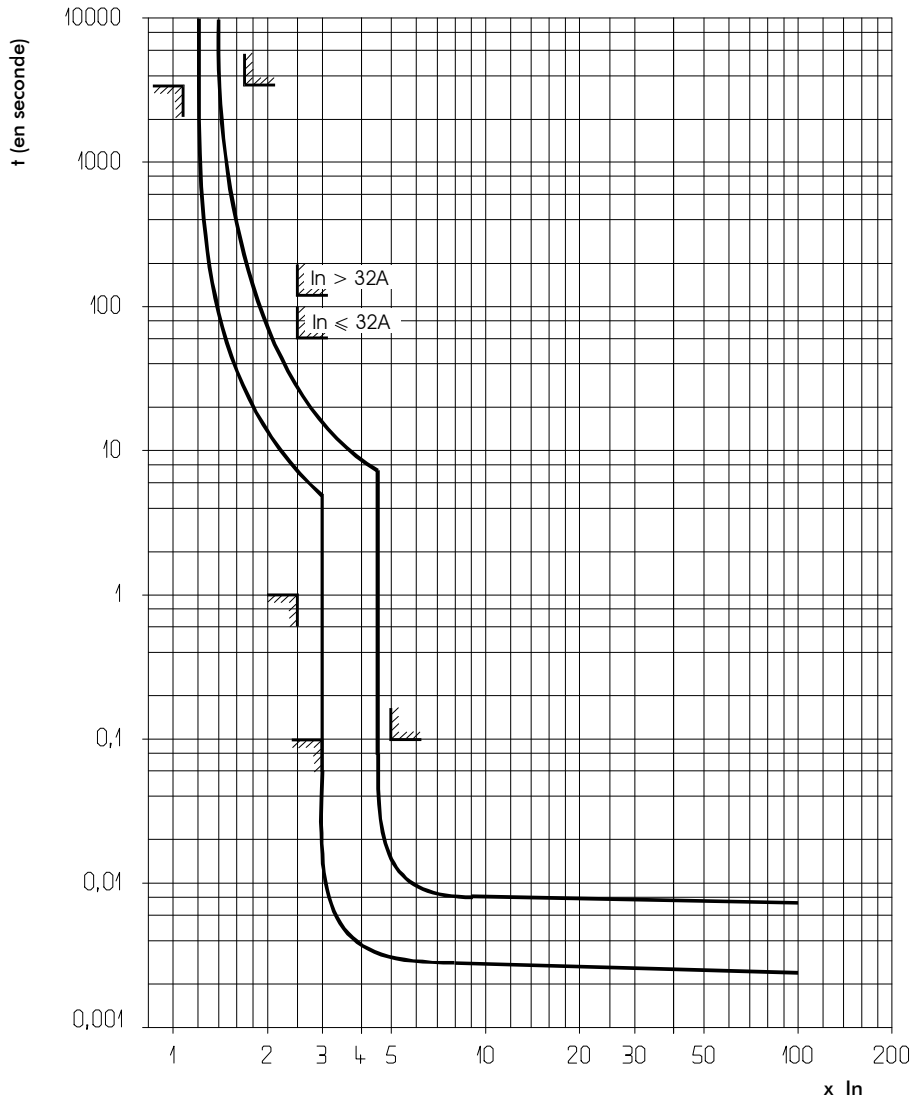
6. CONFORMITIES AND APPROVALS

Compliance with standards :

. EN 60898 / IEC 60898
. « Tropicalization » : execution II (all climates) according to guide UTE C 63-100 (humid heat and salty mist)
. Resistance to vibrations according to IEC 68-2-6 standard : 3 g (1 g = 9.81 m.s²) – Frequency : 10 à 55 Hz during 30 mn – axis : x, y, z
. DX-E m.c.b.'s do not contain the substances targeted by the European directive 2002/95/CE dated 27 January 2003 relating to the restriction of hazardous substances in electrical and electronical equipment (RoHS).

7. CURVES

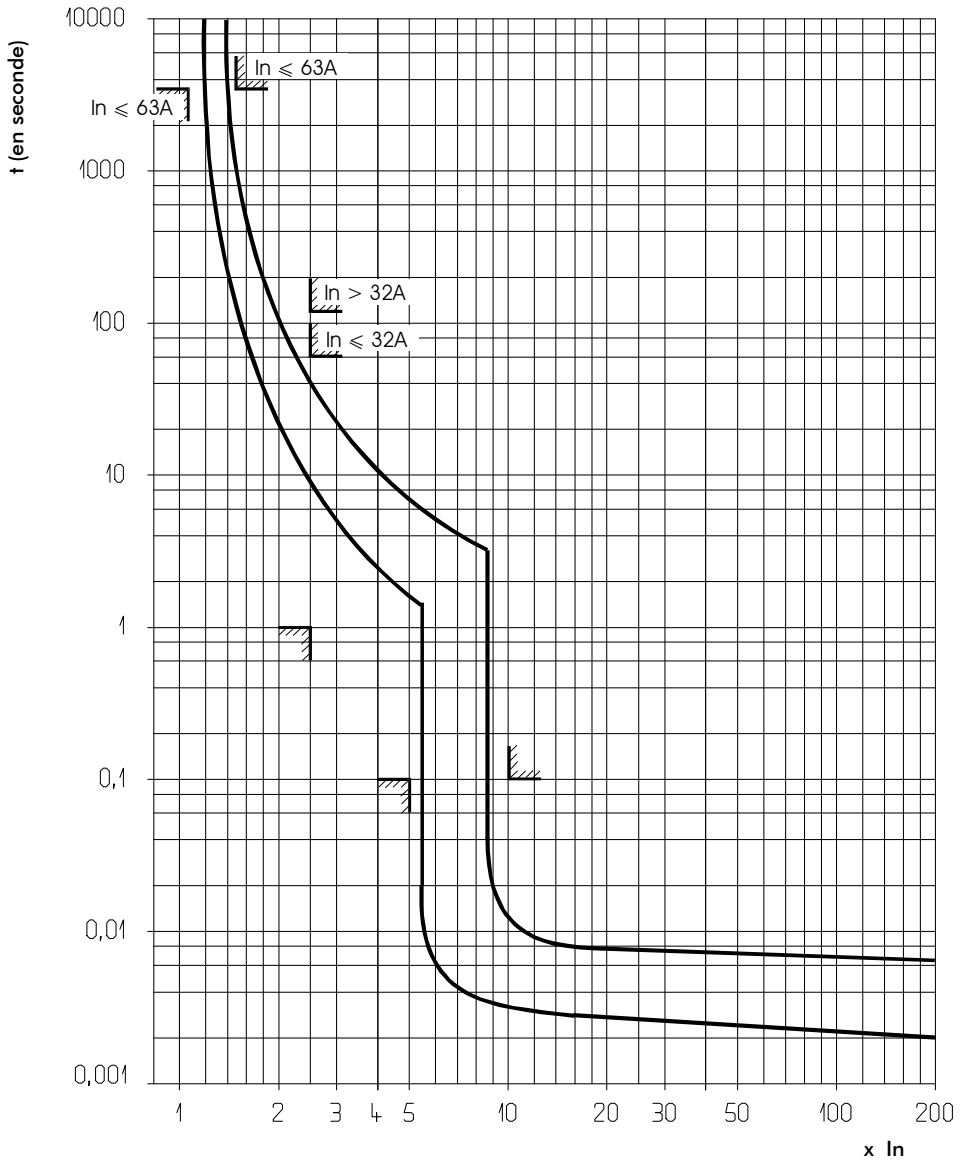
Magneto-thermal tripping zone : M.C.B.'s curve B



Thermal tripping at ambient temperature = 30°C
In = rated current of the m.c.b.

7. CURVES *(continued)*

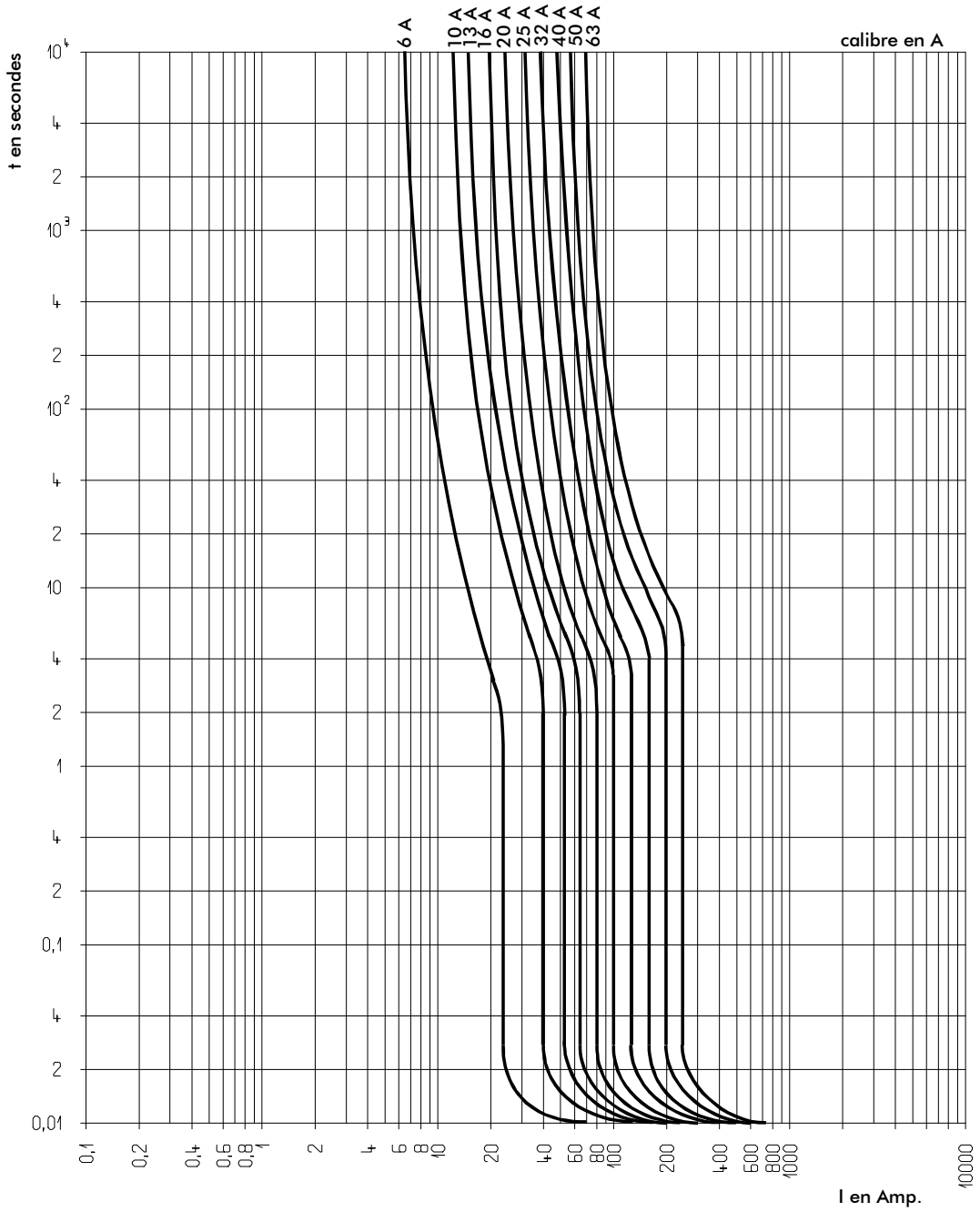
Magneto-thermal tripping zone : M.C.B.'s curve C



Thermal tripping at ambient temperature = 30°C
In = rated current of the m.c.b.

7. CURVES *(continued)*

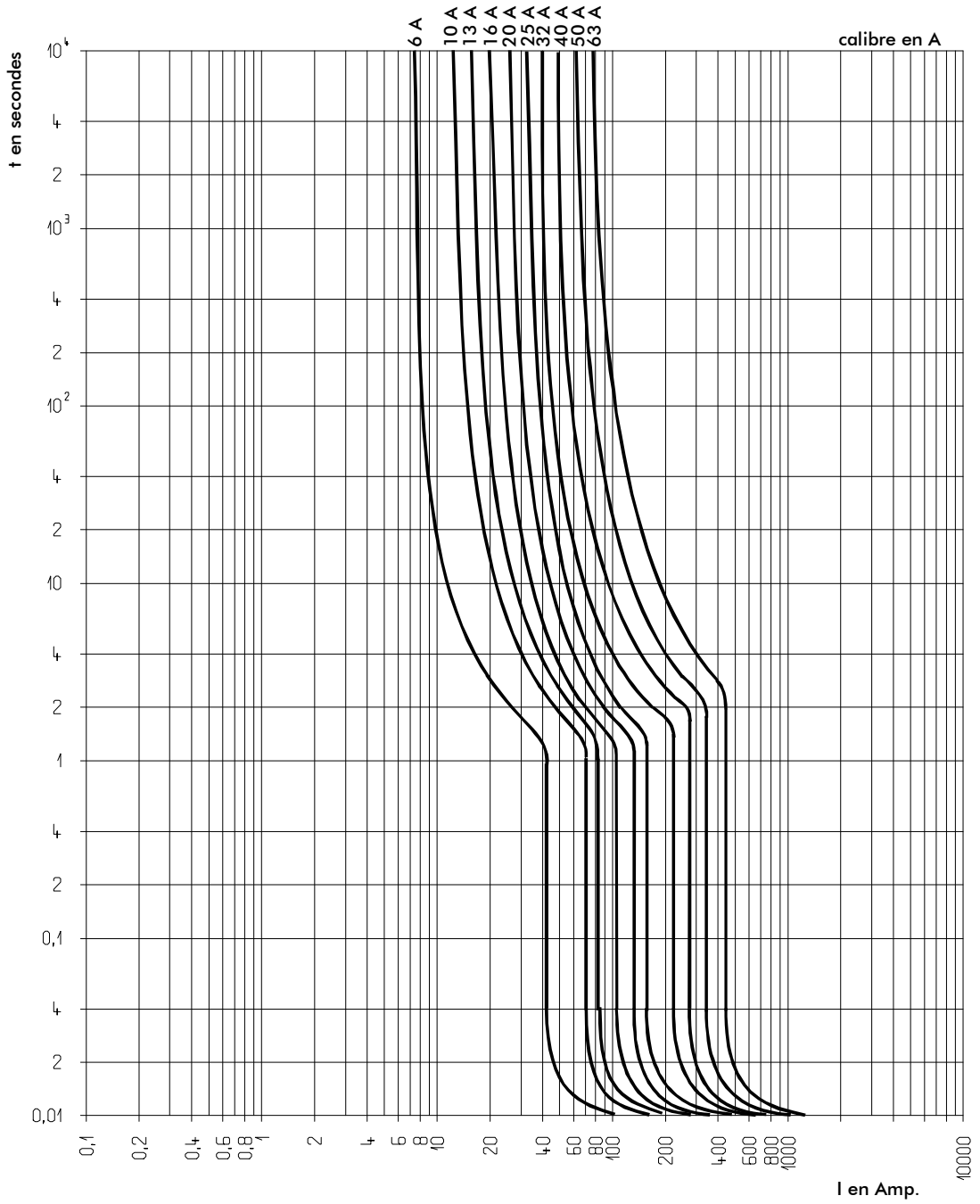
Typical average operating curves : M.C.B.'s curve B



Thermal tripping at ambient temperature = 30°C

7. CURVES *(continued)*

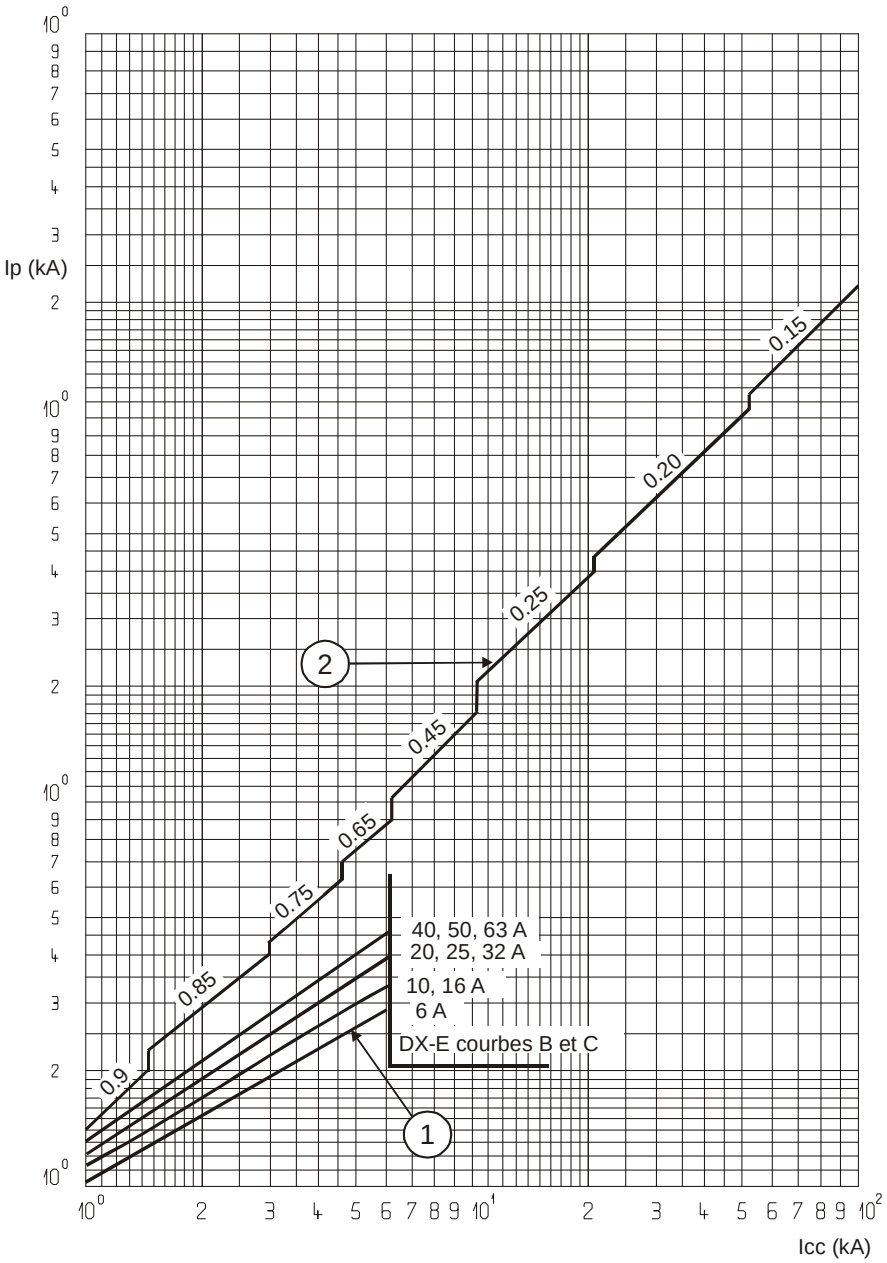
Typical average operating curves : M.C.B.'s curve C



Thermal tripping at ambient temperature = 30°C

7. CURVES *(continued)*

Current limitation curves : M.C.B.'s curves B and C



Icc = Propected symmetrical short-circuit current (RMS value in kA)
Ip = Max peak current (in kA)

① = Effective (max peak) short-circuit current
② = Unlimited peak current (max), in accordance with hereabove power factors

8. EQUIPMENT ET ACCESSORIES

Wiring accessories :

. Supply busbar (cat. N° 049 26/37/55/56/57)
. Sealable screw cover (cat. N° 044 44)
. Insulation shield (cat. N° 044 47)

List of auxiliaries :

Signalling auxiliaries :

. Auxiliary changeover switch (cat. N°. 073 50) (0,5 module)
. Fault signalling changeover switch (cat. N° 073 51) (0,5 module)
. Auxiliary changeover switch – can be modified to fault signalling changeover switch (cat. N° 073 53) (0,5 module)
. Auxiliary changeover switch + fault signalling changeover switch – can be modified to 2 auxiliary changeover switches (cat. N° 073 54) (1 module)

Control auxiliaries :

. Shunt trip (cat. N° 073 60 / 61) (1 module)
. Under voltage release (cat. N° 073 65 / 66 / 68) (1 module)
. Remote control with changeover switch and fault signalling changeover switch included (réf. 07370 / 71 / 73) (3 modules)

Auxiliaries are clipped on the left hand side of the m.c.b.

Auxiliaries and m.c.b.'s combinations allowed :

. Maximum number of auxiliaries = 3.
. Maximum number of signalling auxiliaries = 2 (but only 1 half-module wide auxiliary)
. Maximum number of control auxiliaries = 1
. Control auxiliary must be located on the left of signalling auxiliaries in case auxiliaries of these two kinds are used with the same m.c.b.
Nota : *Remote control cannot be used with other control or signalling auxiliaries*.

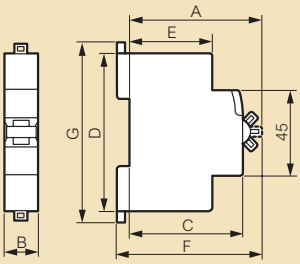
List of RCD add-on modules :

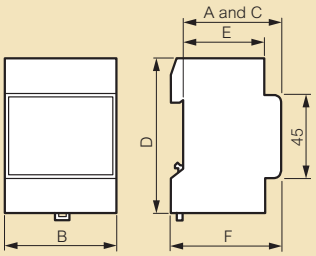
. RCD add-on modules cannot be used with DX-E m.c.b.'s

Installation software :

. XL PRO²

dimensions of din-rail equipment





	A	B					C	D	E	F	G
		1-pole	1-pole + N	2-pole	3-pole	4-pole					
Thermal-magnetic MCBs RX³, DX³ 1 module per pole	70		17.7	35.4	53.1	70.5	60	83	44	76	94
DX³ 1.5 module per pole	70	26.7		53.4	80.1	106.8	60	100	44	76	103
Motor MCBs	82.5			44.5			72.2	89	44	87.3	91
Earth leakage modules up to 63 A	70			35.6	53.4	53.4	60	93	44	76	99
from 80 to 125 A	70			71.1	107.2	107.2	60	88	44	76	89
RCBOs	70	17.7	35.6	71.2		124.6	60	83	44	76	94
4-pole RCBOs with 4 modules	70					71.2	60	83	44	76	94
RCDs (RX³, LR, DX³-ID) 2-pole	70			35.6			60	83	44	76	94
4-pole	71.5					71.2	60	83	44	77.5	94
Fuse carriers	67	17.7	17.7	35.6	53.4	71.2	60	83	44	73	94
Auxiliary contacts Cat.Nos 4 062 58/60/62	70			8.7			60	83	44	76	83
Cat.No 4 062 66	70			17.7			60	83	44	76	83
Control auxiliaries	70			17.7			60	83	44	76	83
Remote control Cat.No 073 73	74			54			74	83	44	80.5	89
STOP & GO	74			54			74	83	44	80.5	102
DX³-IS remote trip head isolating switches 40-63 A	71.7			35.4	53.1	70.8	60.9	83	44.2	77.9	95.35
100-125 A	73				80.1	106.8	60.3	95	47	79.2	127.5
DX³-IS isolating switches 4 064 31/32/34/36/38/39/ 57/59/77/79	70.2			17.8	35.6	35.6	60.9	83	44.2	76.4	94.8
4 064 00/01/03/04/06/11/ 12/23/40/41/60/61/80/81	70.2	17.7		35.4	53.1	70.8	60.9	83	44.2	76.4	94.8
4 064 49/50/69/70/89/90	70.2	17.7		35.4	53.1	70.8	60.9	83	44.2	76.4	94.8
Changeover switches Cat.Nos 0 043 82/85	68			17.7			60	83	44	74	94
Cat.Nos 0 043 83/86	68			35.6			60	83	44	74	94
Push-buttons/control switches	68			17.7			60	83	44	74	94
Indicators	63			17.7			60	83	44	69	94
Pulse operated latching relays	64	17.8		17.8		35.6	61	83	44	70	95
Light sensitive switches Cat.Nos 0 037 21, 4 126 23	60			35.6			60	85	37.5	66	70
Sockets outlets	60			44.5			60	83	44	66	92
Buzzers/bells	60			17.5			60	76	44	66	85
Time lag switch 0 047 02/04	60			17.8			60	94	44	66	94
Time delay relays	60			17.7			60	83	44	66	94
Remote control dimmers Cat.Nos 0 036 58/59/80	60			36			60	83	44	66	94
Cat.No 0 036 60	60			72			60	83	44	66	94
Cat.No 0 036 71	60			108			60	83	44	66	94
Voltage surge protectors 0 030 00	73	35.4					73	150	44	80	150
0 030 22/23	64	35.6			106.8	142.4	64	90	44	71.5	97
0 039 10	60			35.6	53.4	71.2	60	86	44	68	91
0 039 20 to 23	60	17.7		35.6	53.4	71.2	60	86	44	68	91
0 039 30 to 33	60	17.7		35.6	53.4	71.2	60	86	44	68	91
0 039 40/41/43	60	17.7		35.6		71.2	60	86	44	68	91
0 038 28/29	60	17.7					60	86	44	68	91

Description		A	B	C	D	E	F
Programmable time switches	**0 037 05**	60	17.8	60	83	44	66
	4 127 80/90/94	60	17.8	60	83	44	66
	4 127 95, 4 128 12/13	60	53	60	83	44	66
	4 126 31/33/41	60	35.6	60	83	44	66
	4 126 54/57	60	35.6	60	83	44	66
	0 047 70	60	90	60	83	44	66
Voltmeters - Ammeters		60	70	60	83	44	66
Contactors - 1 module 16 and 25 A		62	17.8	60	83	44	67.5
Contactors 25, 40 and 63 A							
	2 modules	60	35.6	61	83	44	67
	3 modules	60	54	61	83	44	67
Contactors 100 A 6 modules		60	90	60	83	44	66
Auxiliaries for contactors and pulse operated latching relays		60	9	60	83	44	66
Transformers and power supplies							
	0 042 10/30/31	60	72	60	83	44	66
	4 130 91	60	35.8	60	83.5	44	66
	4 130 92/93/96	60	71.5	60	83.5	44	66
	4 130 98	60	89	60	94	44	66
	0 047 91/92	60	105	60	95	44	66
	4 131 05/06/07/08	60	89	60	95	44	66
	0 047 93	60	70	60	95	44	66
Electrical energy metering							
	0 046 73/74	60	72	60	81	44	66
	0 046 81/72	60	35.5	60	89	44	66
Central measuring unit							
	0 046 75/76	64	105	64	89.5	44	69
Residual current relay							
	0 260 88	60	35.5	60	89	44	66