

technical information

Breaking capacity in IT neutral earthing system

MCB single pole breaking capacity at 400 V according to IEC 60947-2

	DX ³ 10000 16 kA
1P/2P/3P/4P	4 kA

Breaking capacity in the event of short-circuit to earth and insulation voltage

	1P/2P/3P/4P 230/400 V~ MCBs DX ³ 10000 16 kA
Icn 1	16000 A
Ui	500 V

Icn 1 : Breaking capacity on 1 pole for multipole MCBs in the event of short-circuit to earth
Ui : Rated insulation voltage

Terminal connection cross-sections (mm²)

Copper cable	Rigid	Flexible
DX ³ 6000 10 kA	35	25
DX ³ 10000 16 kA		
Auxiliaries	2.5	2.5

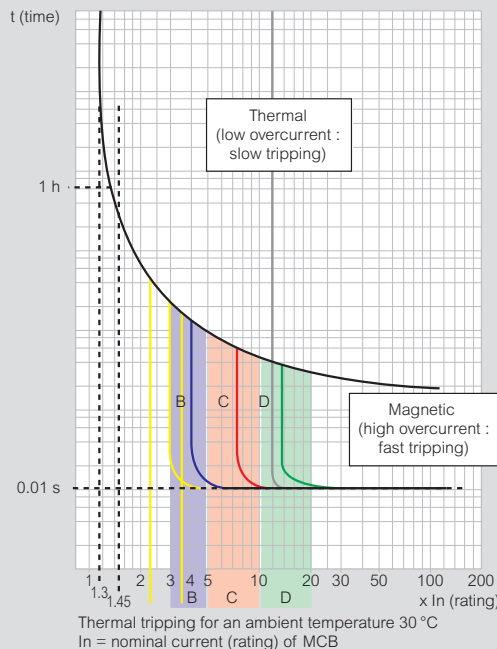
Technical characteristics of auxiliaries

Max. connection cross-section : 2.5 mm²
Operating temperature : -25°C to +70°C

Signalling auxiliaries

Umin. : 24 V~/= and Imin. : 5 mA

MCB tripping curves



Curves	Magnetic threshold settings
B	3 to 5 In
C	5 to 10 In
D	10 to 14 In (10 to 20 acc. to the stds)

MCB selectivity table

MCBs/MCBs (in A)

Downstream MCB	Upstream MCB	DX ³ 10000 - 16 kA B curve				DX ³ 10000 - 16 kA C curve						
		In (A)	32	40	50	63	32	40	50	63	80	100
DX ³ 10000 - 16 kA B & C curve	≤ 6	128	160	200	252	240	300	375	472	4000	T	T
	10	128	160	200	252	240	300	375	472	3000	5000	T
	16	128	160	200	252	240	300	375	472	2000	3600	5500
	20		160	200	252	240	300	375	472	1600	3000	4000
	25			200	252	240	300	375	472	1300	2400	3300
	32				252		300	375	472	1000	1800	2700
	40							375	472	800	1600	2400
	50								472	800	900	1700
	63									650	900	1200
	80										600	750
	100											750
125												

T : total selectivity, up to downstream circuit breaker breaking capacity according to IEC 60947-2

The magnetic threshold and the nominal rating of the downstream MCB must always be inferior to the ones of the upstream MCB

Back up between MCBs (in kA)

In 3 phase networks + N 400/415 V according to IEC 60947-2

MCBs upstream	DX ³ 10000 16 kA B, C and D curves	
MCBs downstream	10 to 125 A	
DX ³ 6000 - 10 kA B, C and D curves	≤ 20 A	16 kA
	25 A	16 kA
	32 A	16 kA
	40 A	16 kA
	50 A	16 kA
	63 A	-

In 3 phase networks + N 230/240 V according to IEC 60947-2

MCBs upstream	DX ³ 10000 16 kA B, C and D curves	
MCBs downstream	≤ 32 A 40 to 125 A	
DX ³ 6000 - 10 kA B, C and D curves	≤ 20 A	32 kA 25 kA
	25 to 40 A	- 25 kA
	50 A	- 25 kA
	63 A	- 25 kA