

DATA SHEET FOR 1 & 3 POLE 10kA LOADSTAR MCBs B, C AND D CURVES



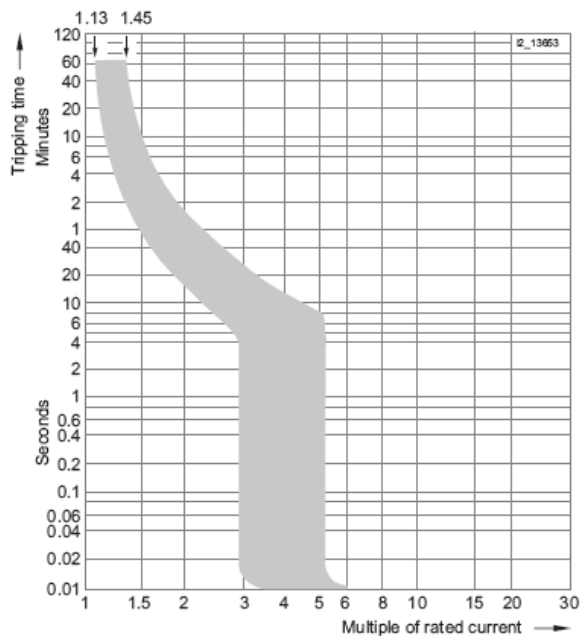
Technical specifications

Standards Approved acc. to		BS EN 60898 IEC/EN 60947-2
Operational voltage	min. V AC/DC	24
Acc. to EN 60898 and EN 60947-2	max. V DC/pole	*60
	max. V AC	440
Acc. to UL1077 and CSA C22.2 No.235	max. V AC	480
	V DC/pole	60
Rated switching capacity		
• Icn acc. to IEC/EN 60898-1	kA AC	10
• Icn acc. to IEC/EN 60898-2	kA DC	
• Icu acc. to IEC/EN 60947-2	kA AC	15
• Acc. to UL 1077 and CSA C22.2	kA AC	5
Insulation coordination		
• Rated insulation voltage	V AC	250/440
• Degree of pollution for overvoltage category		3/III
Touch protection		Yes
to EN 50274-1		
Handle end position, sealable		Yes
Degree of protection		IP20, with connected conductors
acc. to EN 60529		
CFC and silicone-free		Yes
Mounting		
• Snap-on fixing system		Yes
• Standard mounting rail and screw connection		
Terminals		
• Tunnel terminals at both ends		
• Combined terminals at both ends		Yes
• Terminal connection solid, stranded or finely stranded, with ferrule		0.75 ... 25
• Terminal tightening torque	Nm	2.5 ... 3
Conductor cross-sections		
• Solid and stranded, top and bottom terminal	mm ²	0.75 ... 35
• Finely stranded, with end sleeve, top and bottom terminal	mm ²	0.75 ... 25
Mains connection		Any
Mounting position		Any
Service life		20000 operations (6 to 32A); 10,000 operations (40 to 63A)
on average, with rated load		
Ambient temperature	°C	-25 ... +45, occasionally +55, max. 95 % humidity, storage temperature: -40 ... +75
Resistance to climate		6 cycles
Acc. to IEC 60068-2-30		
Resistance to vibrations		
Acc. to IEC 60068-2-6	m/s ²	60 at 10 Hz ... 150 Hz

* The operational voltage 60 V DC/pole takes into account a battery charging voltage with peak value of 72 V.

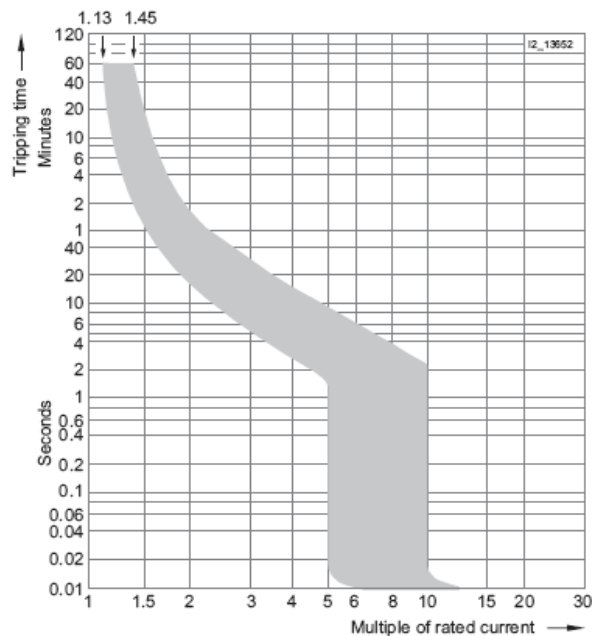


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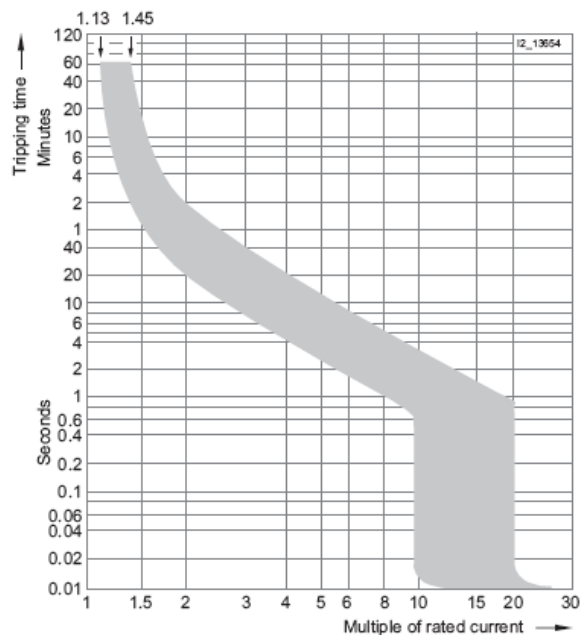
Tripping characteristic B

For universal use in socket outlet and lighting circuits



Tripping characteristic C

Particularly advantageous in lamp and motor circuits with higher starting currents



Tripping characteristic D

For electrical circuits with strong pulse generating equipment, such as transformers

Earth fault loop impedances (Z_s ohms) to give compliance with BS7671 regulations 411.3.2.2 and 411.3.2.3 at 230V

	Maximum earth-fault loop impedance (Ohms)		
Device Rating	MCB type B	MCB type C	MCB type D
6	7.666	3.832	1.917
10	4.599	2.299	1.150
16	2.874	1.437	0.719
20	2.299	1.149	0.575
25	1.839	0.919	0.460
32	1.437	0.718	0.359
40	1.149	0.574	0.288
50	0.919	0.459	0.230
63	0.729	0.364	0.183

The values in this table should be modified to allow for the cable temperature at the time of test



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ORDERING INFORMATION

List No.

Type B	Type C	Type D
6HS06B	6HS06C	6HS06D
6HS10B	6HS10C	6HS10D
6HS16B	6HS16C	6HS16D
6HS20B	6HS20C	6HS20D
6HS32B	6HS32C	6HS32D
6HS40B	6HS40C	6HS40D
6HS50B	6HS50C	6HS50D

List No.

Type B	Type C	Type D
6HT06B	6HT06C	6HT06D
6HT10B	6HT10C	6HT10D
6HT16B	6HT16C	6HT16D
6HT20B	6HT20C	6HT20D
6HT32B	6HT32C	6HT32D
6HT40B	6HT40C	6HT40D
6HT50B	6HT50C	6HT50D

DIMENSIONAL DRAWINGS

