

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



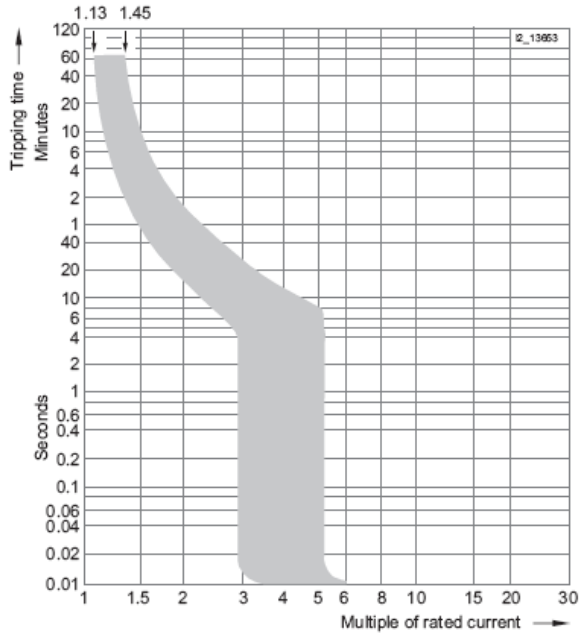
Technical specifications

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		
• I _{cn} acc. to IEC/EN 60898-1	kA AC	10
• I _{cn} acc. to IEC/EN 60898-2	kA DC	15
• I _{cu} acc. to IEC/EN 60947-2	kA AC	5
• 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.

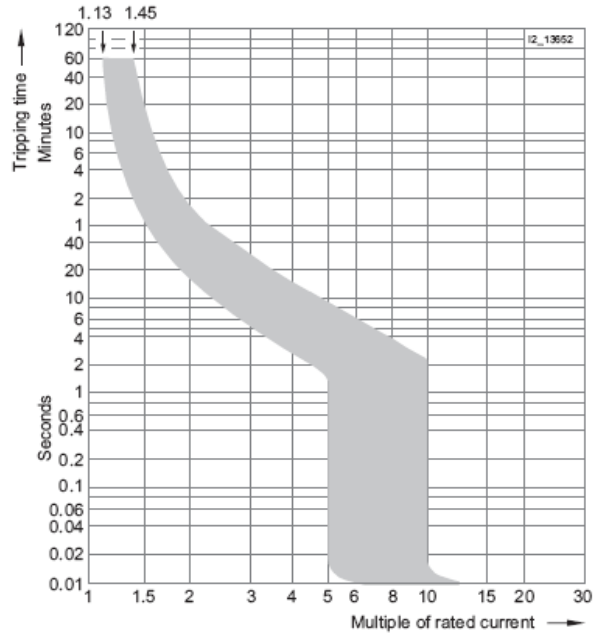


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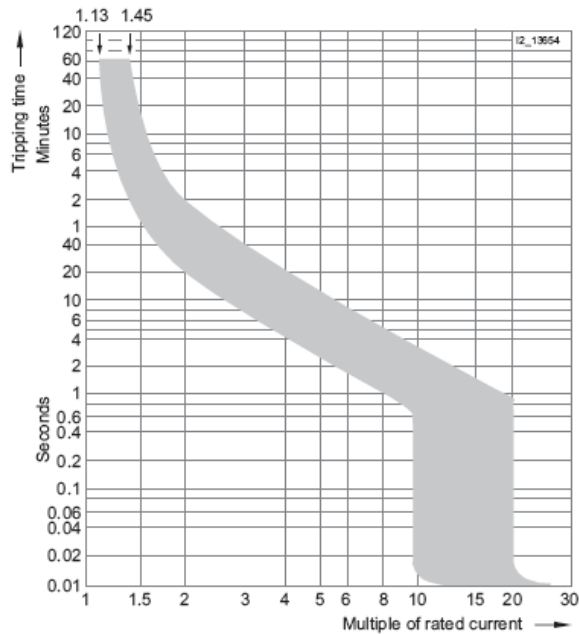
Tripping characteristic B

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

