Proteus Data Sheet

Product Code	Product Range	Issue No.	Issue Date	Issue By
MC500T	MC MCCB	F	11-05-2023	B.S.



General Characteristics

Standards	EN/IEC 60947-2
Trip Unit Type	Thermal-magnetic
Current Rating (In) at 40°C	500A
No. of Poles	3P
Rated Operating Voltage (Ue) AC 50-60Hz	400V
Rated Insulation Voltage (Ui) AC 50-60Hz	690V
Rated Impulse Withstand Voltage (Ui) AC 50-60Hz	8kV
Utilization Category	Category A
Rated Ultimate Short-Circuit Capacity (Icu)	36kA at 415V AC 50/60Hz 25kA at 440V AC 50/60Hz 20kA at 500V AC 50/60Hz 12kA at 690V AC 50/60Hz
Rated Service Short-Circuit Capacity (Ics)	36kA at 415V AC 50/60Hz 25kA at 440V AC 50/60Hz 20kA at 500V AC 50/60Hz 12kA at 690V AC 50/60Hz
Long-Time Pickup Adjustment (Thermal)	Ir: (0.8-1) x In
Short-Time Pickup Adjustment (Magnetic)	Im: (4-8) x In
Polarity	Bi-directional
Mechanical Life (ops)	>15000
Electrical Life (ops)	>5000
Terminal Cable Capacity	Lugged (M12)
Terminal Tightening Torque	56Nm
Weight	6.4kg
Operating Ambient Temp.	-20℃ to +60℃
Pollution Degree	III

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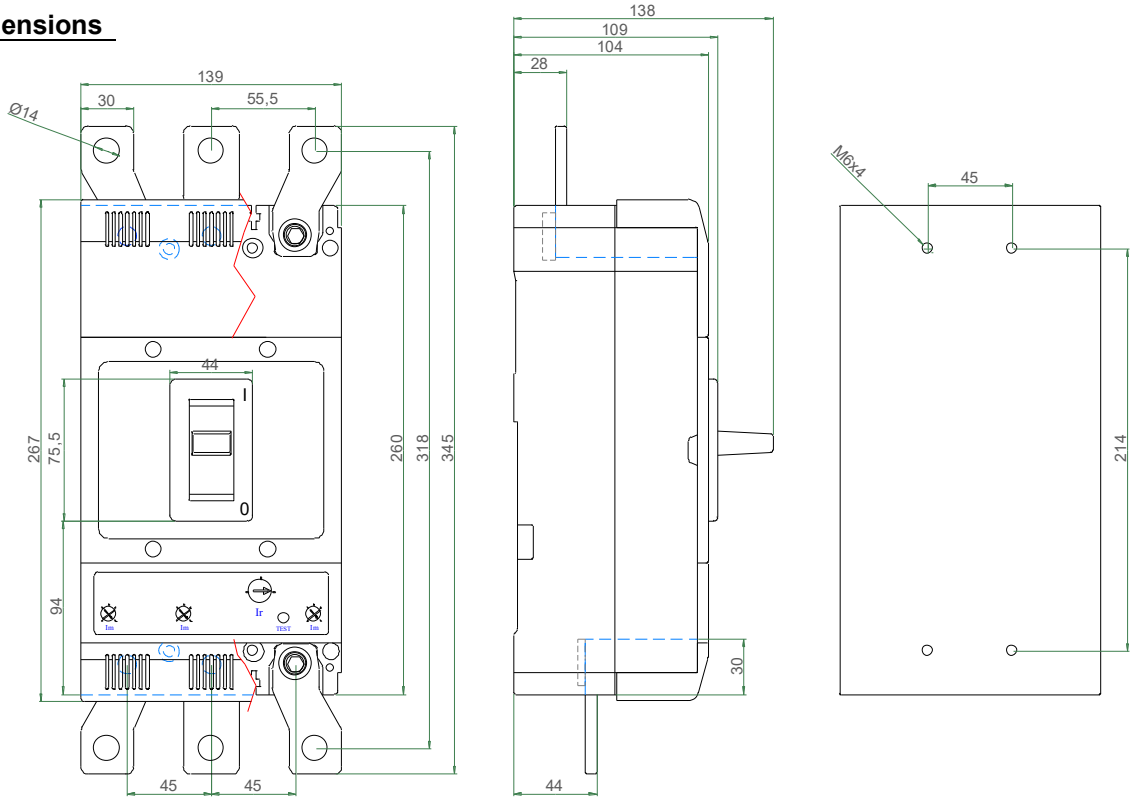
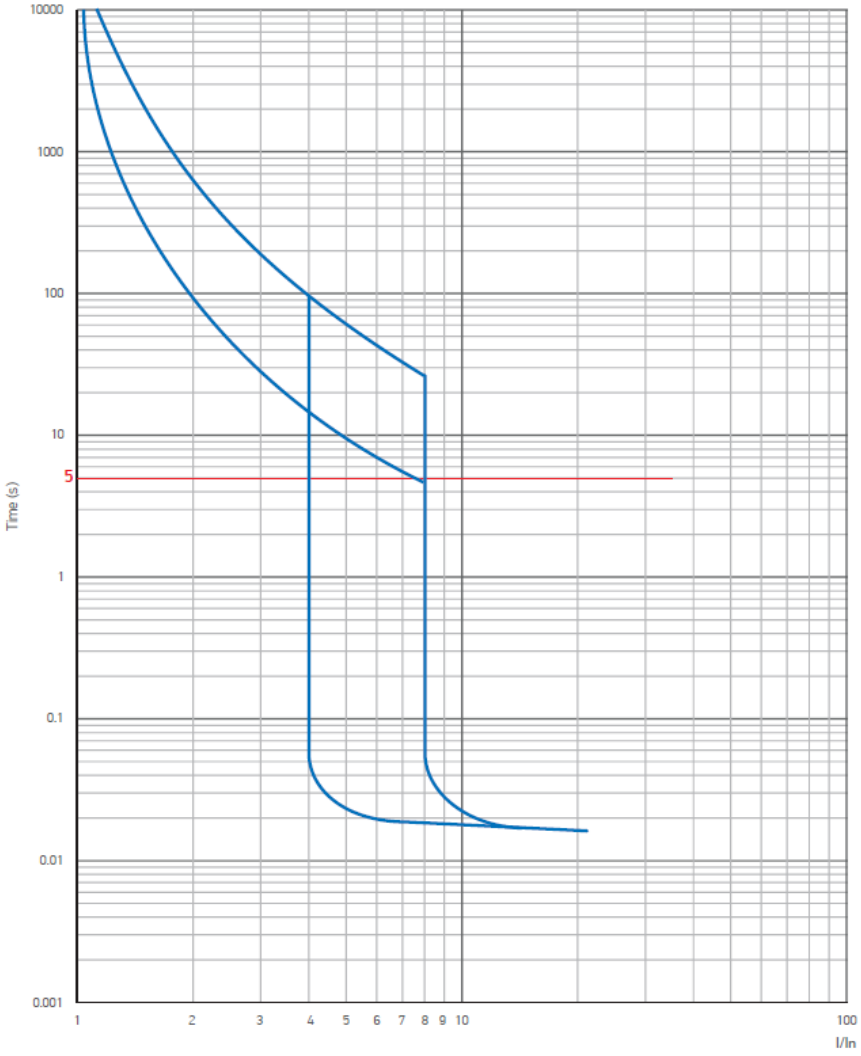
Dimensions



Time-Current Characteristic



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Maximum Earth Fault Loop Impedance Values @ 218.5V (230V x 0.95 Cmin)

MCCB Part no.	Rated current In (A)	Short time setting Im (A)	Upper limit value. Zs (Ω)	
			0.4s	5s
MC500T	500	2000-4000	0.045	0.045

Short time current +/-20%

Additional information	
Usage	Intended for use by skilled persons or instructed persons.
Electrical	EMC environment: Environment type A.
Installation	Service conditions: Wiring of this product must comply with current IEE regulations. Units are intended for indoor use, dry conditions and NOT where high levels of humidity and temperature are experienced.

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