

MCB (10kA)

Miniature Circuit Breaker



The MCB is a vital protection device. It is essential in every electrical installation to safeguard both your life and valuable property against short circuit and overload.

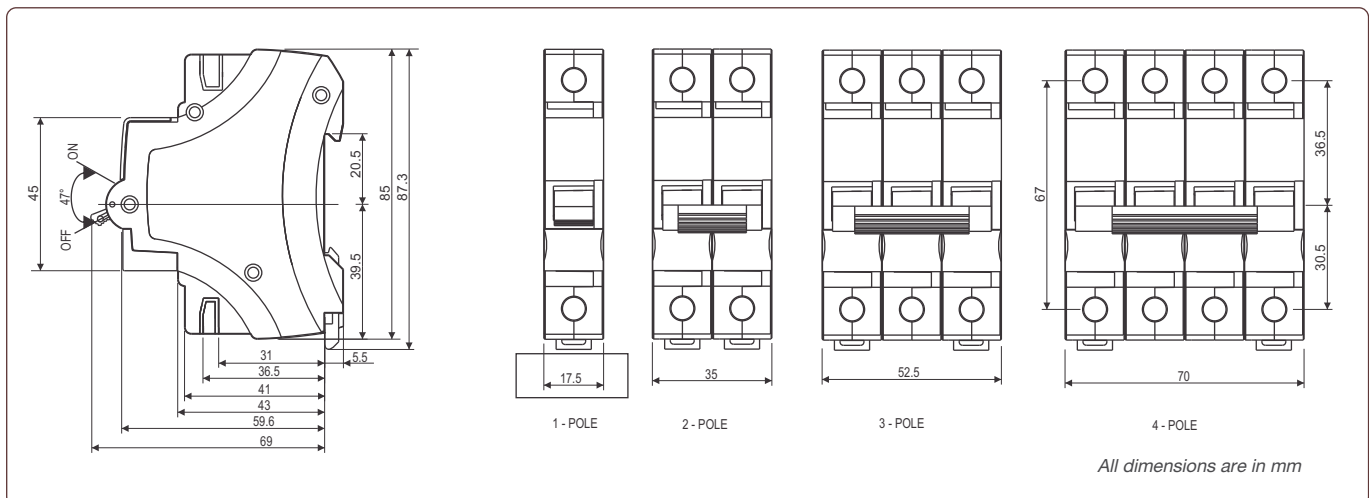
Features and Benefits

- Conforms to IS/IEC 60898-1
- Breaking capacity of 10 kA – better protection for cables and equipment
- Tripping curves B, C & D
- Energy limitation Class 3 allows low let-through energy in the system
- Unique patented design gives both label holder and true contact indication facility for individual poles
- Low watt loss – almost 50% of the values prescribed by IEC 60898-1– saves energy
- Trip free mechanism to ensure maximum safety
- Design based on advanced current limiting hammer trip mechanism ensures quick breaking
- No line load bias gives flexibility for incomer supply termination on either sides
- Accessories – wide range of accessories like aux contacts, u/v release and shunt release
- True contact indication – enhanced safety
- DC MCB as per IEC 60947-2 : Rated Voltage: 130 V DC (for SP), 250 V DC (for DP)*

Technical Specifications – MCB

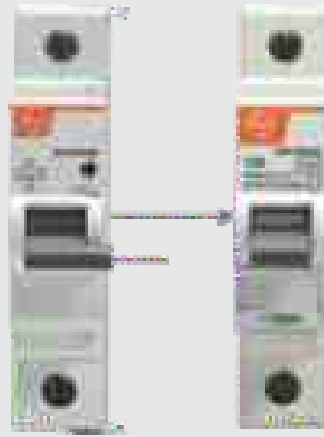
Specification	IS / IEC 60898	DC MCBs - IEC 60947-2
Current Rating	0.5, 1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63A	0.5, 1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63A
Number of Poles	Single-Pole (SP), Double-Pole (DP), Three-Pole (TP) and Four-Pole (FP)	Single-Pole (SP), Double-Pole (DP)
Electro Thermal Characteristic	B, C and D curve	-
Breaking Capacity	10 kA	6kA (1 Break/Pole)
Rated Voltage	240 / 415 V AC	130V DC - Single Pole 250V DC - Double Pole
Current Limitation Class	3	-
Frequency	50 to 60 Hz	-
Rated Impulse Voltage	4 kV	
Minimum Operating Voltage	24 V AC	24 V DC
Degree of Protection	IP 20	
Termination	Dual termination on both the sides (Cable and Busbar)	
Applied Connection Torque	6 N m	
Permissible Ambient Temp.	- 5° C to + 55° C	
Calibration Temperature	30° C	
Mechanical Life (operating cycles)	>100,000	
Electrical Life (operating cycles)	20,000 (cos Ø = 0.85 to 0.9) 6A to 32A 10,000 (cos Ø = 0.85 to 0.9) for 40A to 63A	As per IEC 60947-2
Mounting Position	Horizontal/Vertical/Flat	
Mounting	Snap fixing on standard profile 35 X 7.5mm DIN-Rail as per EN 50022	

Dimensions



Auxiliaries and Accessories

10 kA MCBs



L&T MCBs can be fitted with a wide range of accessories like the auxiliary contact, shunt and under voltage release.

Auxiliary & Accessories for 10kA MCBs

Description	Cat. Nos.
Auxiliary Contact – 6A (1NO+1NC), 1/2 module	BZA11006
Shunt Release – 240V AC, 1 module	BZS00240
Trip Alarm Contact - 240V AC, (1NO + 1NC), 1/2 module	BZT11006