

MTE/A 11-100M1b



Single-phase PEN Fault Protection.
Compliant with IET 01:2024 M1b3t including the protective conductor trip current of 21 mA.

Single-Phase MCB with Integrated PEN Fault Protection

Engineered for precision and compliance, this single-phase MCB delivers advanced protection for single-phase EV charge point installations.

Integrated PEN Fault Detection

Compliant with IET:01 2024, specifically M1b3t, this device not only monitors high and low Line-to-Neutral voltages but also continuously checks the CPC. If a fault current of 21 mA or higher is detected, the device automatically isolates the load. Delivering complete protection without the need for additional devices.



Single-Connection Design

Simplifies installation, eliminating the need for separate contactors.

Standards

Fully supports IET:01 2024 M1b3t.

Ideal Applications

Single-phase feeder pillars, bespoke distribution panels, EV charge points, and similar installations.

- Comprehensive Protection.
- Simplified Installation.
- Maximum Compliance.

Standard	BS EN 60898-1 BS EN 63024 IET:01, 2024 M1b3t
Certification	UKCA, CE
Pol.	1P+N+PE
Rated current (A)	1~100
Protective conductor trip current (PE)	21 mA (IET 01:2024 M1b3t)
Rated voltage Ue (V)	230
Rated insulation voltage (V) Ui	500
Rated working frequency (Hz)	50
Rated Impulse Withstand voltage (kV) Uimp	10kV
Rated short circuit capacity Icn, 230V/400V (IEC/EN 60898)	10kA
Rated limit short circuit breaking ability Icu, 230V/400V	25KA (IEC/EN 60947-2)
Rated running short circuit breaking capability Ics, 230V/400V	75%Icn (IEC/EN 60947-2)
Overvoltage class	IV
Pollution levels	3
Transient tripping characteristics	C (5In~10)
Ambient air temperature range	-25°C - +40°C
Mechanical life	20000
Electrical life	10000
Protection grade	IP2X
Circuit breaker body	IP41 indoor / IP44 outdoor
Installed in a distribution box	
Warranty	1 Year

