

GOODMEASURE TYPE B RCD

Residual Current Protection for Electric Vehicle Charging Systems

Item code **SW0202**

- › Detect's DC and high frequency AC residual fault current
- › High break capacity of 10kA
- › Suitable for 3 phase or single phase applications
- › Protective terminal covers for insulation included
- › RCCB fault indication window
- › Lockable mechanism
- › Conforms with WorkSafe guidelines for safe electric vehicle charging, and 2018 updates to AS/NZS3000 wiring rules



FEATURES



Integrated terminal covers, fault indication

- › Terminal screw covers are integrated and included as standard. Fault indication window helps to quickly identify RCD/RCCB faults.

Approved for use in New Zealand

- › Designed to, and compliant with, IEC EN 61008 and IEC EN 62423, and approved for use in New Zealand by Worksafe, Energy Safety. NZ Worksafe Approval Number NZ18/002.

DESCRIPTION

Improved residual current protection for EV Charging systems

- › With ongoing advances, many modern electrical products that incorporate power electronics requiring the detection of faults within more complex residual current waveforms is now required to protect various load types. Type B RCDs were developed to provide improved protection against residual current faults that can occur during Electric Vehicle charging and now required in NZ on all final subcircuits that supply an EV charger.

Identification

- › Type B RCDs that comply with the latest edition of IEC/EN 62423 can be identified by the markings shown below. The graphical representations show the residual current waveforms the Type B device is designed to respond to.



Note: The SW0202 Type B RCD is a residual current device only, it is required to be connected in conjunction with a suitable overcurrent protection device, fuse or circuit breaker.

SPECIFICATIONS - MECHANICAL

Front face size	› 45mm	Terminal capacity	› Rigid conductor up to 25mm ²
Device height	› 77mm	Busbar specification	› 0.8 - 2mm
Device width	› 72mm (4MU)	Terminal fastening torque	› 2.0Nm
Mounting	› Quick fastening on DIN rail (IEC/EN 60715)	Contact Position Indicator (CPI)	› Yes
Protection Degree	› IP20	Tripping temperature	› -25 - +40°C
Terminal protection	› Finger and hand touch safe, integrated terminal covers	Lockable Control System	› Yes - sealable
Fault indication	› Window		

SPECIFICATIONS - ELECTRICAL

Compliance	› IEC/EN 61008-1 › IEC/EN 62423 › WorkSafe (Energy Safety) approved	Rated impulse withstand voltage Uimp	› 4kV
Tripping	› Instantaneous	Rated short circuit current	› 10kA
Rated Voltage Ue	› 240/415V, 50/60Hz	Rated residual operating current I_{Δn}	› 30mA
Rated Current	› 63A	Rated making and breaking capacity I_m	› 1000A
Waveform	› B Type	Electro-mechanical endurance	› 4000 operating cycles
Rated insulation voltage U_i	› 500V		

DIMENSIONS

The technical drawings show the following dimensions:

- Front view: Width 72mm, Height 89mm.
- Side view: Depth 77mm, Mounting height 45mm.
- Terminal view: Shows 6 terminals labeled N, 1, 3, 5, 2, 4, 6.

Width: 72mm
Height: 89mm
Depth: 77mm

SW0202