

# 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 fault current 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

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

# SPECIFICATIONS - ELECTRICAL

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

# DIMENSIONS

