



RCM14-03 SYSTEM - RESIDUAL CURRENT MONITOR

The RCM14-03 System is a Residual Current Monitor intended for the detection of DC and AC Residual currents in Mode 2 EV Charging Systems where such currents may flow under a fault condition.

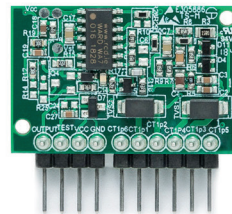
The RCM14-03 System comprises of a CT with 14mm aperture, and a Sensor PCB intended to be mounted directly onto a printed circuit board by OEMs.

The RCM14-03 System may be used to detect 6mA DC and 30mA AC Residual Currents in DC, single phase or 3 phase installations, and is the equivalent of RCM14-03.

This product is fully compliant with the detection requirements of IEC62752.

MAIN FEATURES

- Operates from a 12-24V DC Supply
- External Test Facility
- "Fault" signal output
- Frequency Response DC and 50 & 60Hz
- ROHS 2 compliant
- Complies with the DC and AC detection requirements of IEC62752
- 3000A Surge Current Withstand



Order Code: 90136

SEE ALSO

RCM14-01 SYSTEM	6mA DC Detection to IEC62955, 14mm CT Aperture
RCM14-03	6mA DC/30mA AC Detection to IEC 62752, 14mm CT Aperture
RCM14-04 SYSTEM	56mA DC/20mA AC Detection to UL2231-2, 14mm CT Aperture
RCM01-02	6mA DC/30mA AC Detection to IEC 62752, 9mm CT Aperture

The RCM14-03 System is intended for operation with a supply voltage of 12-24V DC +/-10%. Performance may be compromised if the supply voltage is outside these limits.

When a Residual Fault Current that exceeds the rated AC or DC level is detected, the RCM14-03 System Output pin will switch to the “Fault” state within the specified response times. The Output pin will Auto-Reset when the Fault is removed.

See Application Sheet WA-AS-032 for Connection Diagram

Technical drawing of the SMD module showing four views with dimensions:

- Top View:** Shows a circular component with a central hole of diameter $\phi 14$. The outer diameter is $\phi 32.6$. The distance from the center to the bottom edge is 38.3. The total width at the base is 24.9. The overall height is 41.5.
- Side View:** Shows the profile of the component with a total width of 17.3 and a base width of 17.9.
- Front View:** Shows the component's face with a width of 33. It features a USB-A port, several status LEDs, and a row of 10 pins at the bottom. The pin pitch is 2.54. The mounting holes are spaced 23.9 apart, with a distance of 21.3 between the first two pins.
- Rear View:** Shows the underside of the component with a total width of 30.6 and a mounting tab width of 6.3.

All dimensions in mm
CAD model available on request

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