

Type: RCM-EV-07

5V DC (95 - 105% of Us)

0.15W

230/400V AC 50/60Hz

6mA DC (fixed)

l current (as per IEC 62955)

0.3s

6-way pin header, 1,8mm pitch (0,4mm square pins)

0.5 x I∆n

6mA 10s

Residual Current Monitor - 6mA DC (Single Output)

TECHNICAL SPECIFICATION

Auxiliary supply: Rated voltage Us (1, 2): Power consumption (max.):

Monitored circuit: Rated current In: Rated voltage Un:

Rated frequency:

Inputs/Outputs:

Sensitivity/Trip level I∆n

Trip and time delay characteristics:

Max. operating time for suddenly applied resident

Residual non-operating current



Dims*: W. 46.5mm H. 35.8mm D. 11.8mm

*exc. any pins

- □ Designed for **Mode 3** Electric Vehicle charging systems (as per IEC 62955)
- ☐ Fixed 6mA DC trip level
- 3000A surge withstand capability
- □ Suitable for single phase or three phase loads rated up to 32A
- ☐ Built-in current sensor with 13.5mm dia. aperture
- ☐ Designed for direct mounting to PCB and secured in place using 2 solderable pins
- 6-way male pin header connector (1.8mm pitch) exiting on the underside of housing
- □ 5V DC supply voltage
- "Test" input
- ☐ 1 x Open collector "Fault" output
- ☐ 1 x "Analogue" output
- Auto-resets when fault removed



INSTALLATION

Installation work must be carried out by qualified personnel.

- BEFORE INSTALLATION, ISOLATE ALL SUPPLIES.
- DO NOT install the unit in close proximity to equipment generating high magnetic fields.
- Ensure the conductors that pass through the aperture are straight, and as central as possible. Ensure the
 conductors do not cause any undue stress on the unit itself.
- The earth connection must not pass through the aperture.

Applying power.

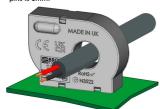
 There are no visual indicators or user adjustments. As soon as power is applied the device will begin monitoring for leakage current.

Troubleshooting.

If the unit fails to operate correctly check that all wiring and connections are good.

MOUNTING

 The recommended mounting of the RCM-EV-07 is direct to a PCB. The diameter of the two securing pins is 1mm.



SOLDERING PROCESS

Recommended process: Wave soldering only
Heating temperature: 260°C
Heating time:
These products are not suitable for re-flow soldering

