# Product datasheet

Specifications




## Residual current circuit breaker (RCCB), Resi9, 4P, 40A, AC type, 100mA

R9R52440

## Main

| | |
|---|---|
| **Range** | Resi9 |
| **Product or component type** | Residual current circuit breaker (RCCB) |
| **Poles description** | 4P |
| **[In] rated current** | 40 A |
| **Network type** | AC |
| **Earth-leakage sensitivity** | 100 mA |
| **Earth-leakage protection time delay** | Instantaneous |
| **Earth-leakage protection class** | Type AC |
| **Rated breaking and making capacity** | Im 500 A conforming to EN/IEC 61008 |
| **Rated conditional short-circuit current** | Inc 6 kA |
| **Quality labels** | EAC<br>UA TR |

## Complementary

| | |
|---|---|
| **Network frequency** | 50/60 Hz |
| **[Ue] rated operational voltage** | 400 V AC 50/60 Hz |
| **Residual current tripping technology** | Voltage independent |
| **[Ui] rated insulation voltage** | 440 V |
| **[Uimp] rated impulse withstand voltage** | 4 kV |
| **Surge current** | 250 A |
| **Control type** | Toggle |
| **Local signalling** | ON/OFF indication |
| **Mounting mode** | Clip-on |
| **Mounting support** | DIN rail |
| **9 mm pitches** | 8 |
| **Height** | 81 mm |
| **Width** | 72 mm |
| **Depth** | 73 mm |
| **Net weight** | 370 g |
| **Embedding depth** | 44 mm |
| **Colour** | White |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|---|---|
| **Mechanical durability** | 20000 cycles |
| **Electrical durability** | 10000 cycles |
| **Connections - terminals** | Tunnel type terminals (top or bottom) - 1...35 mm² - rigid<br>Tunnel type terminals (top or bottom) - 1...25 mm² - flexible<br>Tunnel type terminals (top or bottom) - 1...25 mm² - flexible with ferrule |
| **Wire stripping length** | 15 mm for top or bottom connection |
| **Tightening torque** | 3.5 N.m top or bottom |

## Environment

| | |
|---|---|
| **Standards** | EN/IEC 61008-1<br>EN/IEC 61008-2-1 |
| **IP degree of protection** | IP20 |
| **Pollution degree** | 2 |
| **Overvoltage category** | III |
| **Tropicalisation** | 2 conforming to IEC 60068-1 |
| **Relative humidity** | 95 % at 55 °C |
| **Ambient air temperature for operation** | -5…40 °C |
| **Ambient air temperature for storage** | -40…80 °C |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 7.500 cm |
| **Package 1 Width** | 8.500 cm |
| **Package 1 Length** | 9.000 cm |
| **Package 1 Weight** | 348.000 g |
| **Unit Type of Package 2** | S03 |
| **Number of Units in Package 2** | 27 |
| **Package 2 Height** | 30.000 cm |
| **Package 2 Width** | 30.000 cm |
| **Package 2 Length** | 40.000 cm |
| **Package 2 Weight** | 9.807 kg |
| **Unit Type of Package 3** | P12 |
| **Number of Units in Package 3** | 216 |
| **Package 3 Height** | 45.000 cm |
| **Package 3 Width** | 80.000 cm |
| **Package 3 Length** | 120.000 cm |
| **Package 3 Weight** | 90.456 kg |

## Contractual warranty

| | |
|---|---|
| **Warranty (in months)** | 18 |

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

### Environmental footprint

| | |
|---|---|
| Total lifecycle Carbon footprint | **61 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **2 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **0 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **0 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **58 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **0.6 kg CO2 eq.** |
| Environmental Disclosure | **Product Environmental Profile** |

## Use Better

### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **No** |
| SCIP Number | **C9263dcd-6fa8-4ff1-8625-dedd2ab2e01f** |
| EU RoHS Directive | **Compliant By Exemption** |
| REACh Regulation | **Reference contains Substances of Very High Concern above the threshold** |
| OECD PFAS Regulation | **Item contains PFAS Chemicals** |
| Ship Recycling Directive | **Reportable** |
| POP Directive | **No POPs** |
| Halogen-free status | **Product contains halogen above thresholds** |
| PVC free | **Yes** |
| Silicone-free | **No** |

## Use Again

### Repack and remanufacture

| | |
|---|---|
| Recyclability potential, in % | **59** |
| End of life manual availability | **No need of specific recycling operations** |
| Take-back | **No** |
| WEEE Label | **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins** |