

Product data sheet

Specifications



Residual current breaker with overcurrent protection (RCBO), Resi9, 1P+N, 20A, C curve, 4500A, AC type, 30mA

R9D31220

Main

| | |
|-------------------------------------|--|
| Range | Resi9 |
| Product Name | Resi9 RCBO |
| Product Or Component Type | Residual current breaker with overcurrent protection (RCBO) |
| Device Application | Distribution |
| Poles Description | 1P + N |
| Neutral Position | Left |
| Number Of Protected Poles | 1 |
| [In] Rated Current | 20 A |
| Network Type | AC |
| Trip Unit Technology | Thermal-magnetic |
| Curve Code | C |
| Earth-Leakage Sensitivity | 30 mA conforming to EN/IEC 61009-2-1 |
| Earth-Leakage Protection Time Delay | Instantaneous |
| Earth-Leakage Protection Class | Type AC |
| Breaking Capacity | 4500 A Icn at 230 V AC 50/60 Hz conforming to EN/IEC 61009-2-1 |
| Quality Labels | CEBEC |

Complementary

| | |
|--|--------------------------------|
| Network Frequency | 50/60 Hz |
| [Ue] Rated Operational Voltage | 230 V AC 50/60 Hz |
| Magnetic Tripping Limit | 5...10 x In |
| Surge Current | 250 A |
| Contact Position Indicator | Yes |
| Control Type | Toggle |
| Local Signalling | ON/OFF indication |
| Mounting Mode | Clip-on |
| Mounting Support | DIN rail |
| Comb Busbar And Distribution Block Compatibility | Bottom: biconnect |
| Connection Pitch | 9 mm between phase and neutral |
| 9 Mm Pitches | 4 |
| Height | 74 mm |

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

| | |
|--------------------------|---|
| Width | 36 mm |
| Depth | 90 mm |
| Net Weight | 0.19 kg |
| Colour | White |
| Mechanical Durability | 20000 cycles |
| Electrical Durability | 20000 cycles |
| Connections - Terminals | Tunnel type terminals (top or bottom) - <= 10 mm² - flexible Tunnel type terminals (top or bottom) - <= 16 mm² - rigid |
| Wire Stripping Length | 14 mm for top or bottom connection |
| Tightening Torque | 2 N.m top or bottom |
| Earth-Leakage Protection | Integrated |

Environment

| | |
|---------------------------------------|--|
| Standards | EN/IEC 61009-2-1 |
| Product Certifications | EAC |
| Ip Degree Of Protection | IP20 conforming to IEC 60529 IP40 (modular enclosure) conforming to IEC 60529 |
| Tropicalisation | 2 conforming to IEC 60068-1 |
| Relative Humidity | 95 % at 55 °C |
| Ambient Air Temperature For Operation | -25...40 °C |
| Ambient Air Temperature For Storage | -30...70 °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 | 3.600 cm |
| Package 1 Length | 8.500 cm |
| Package 1 Weight | 221.000 g |
| Unit Type Of Package 2 | S03 |
| Number Of Units In Package 2 | 60 |
| Package 2 Height | 30.000 cm |
| Package 2 Width | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 13.856 kg |

Contractual warranty

| | |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Sustainability




Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)

Well-being performance

| | |
|--|---|
|  Mercury Free | |
|  Rohs Exemption Information | Yes |
|  Halogen Free Plastic Parts Product | |
| Reach Regulation | REACH Declaration |
| Eu Rohs Directive | Compliant with Exemptions |
| China Rohs Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |