

Product datasheet

Specifications



residual current protection relay,
Vigirex RH10P, 250 mA, 380/415
VAC 50/60 Hz, front panel mounting

56244

⚠ Discontinued on: 1 Nov 2020

⚠ Discontinued

Main

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| Range | Vigirex |
| Device short name | RH10P |
| Product or component type | Residual current protection relay |
| Relay application | Protection relay |
| Mounting support | Front panel |
| Earth-leakage protection class | Type A |
| Type of setting | None |
| Residual earth-leakage sensitivity adjustment type | Fixed |
| Earth-leakage sensitivity | 0.25 A |
| Earth-leakage time delay | Instantaneous |
| Current sensors compatibility | Vigirex TOA earth leakage current sensor Vigirex A earth leakage current sensor Vigirex L earth leakage current sensor |
| [Ithe] conventional enclosed thermal current | 8 A |
| Minimum load | 10 mA at 12 V |
| [Us] rated supply voltage | 380...415 V AC 50/60 Hz 55...110 % |
| Power consumption in VA | 4 VA |
| Monitored distribution system | 1000 V - AC at 50/60 Hz (maximum) 1000 V - AC at 400 Hz (maximum) |
| Earthing system | TN-S TT IT |
| [Uimp] rated impulse withstand voltage | 8 kV |
| Reset | Manual reset |

Complementary

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|-------------------------|---|
| Test function | Remote test Local |
| Monitoring | Electronics (continuous) Power supply (continuous) Relay/sensor link (continuous) |
| Type of measurement | Earth fault current internal measurement, range: 80...100 % |
| Tamperproof of settings | Protected by sealable cover |

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|--|---|
| Connections - terminals | <p>Auxiliary power supply: terminal block cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12</p> <p>Auxiliary power supply: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12</p> <p>Auxiliary power supply: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12</p> <p>Fault: terminal block cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12</p> <p>Fault: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12</p> <p>Fault: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12</p> <p>Relay test and fault reset: terminal block cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12</p> <p>Relay test and fault reset: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12</p> <p>Relay test and fault reset: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12</p> <p>Sensor: terminal block cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12</p> <p>Sensor: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12</p> <p>Sensor: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12</p> <p>Voltage presence: terminal block cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12</p> <p>Voltage presence: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12</p> <p>Voltage presence: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12</p> |
| Wire stripping length | <p>Auxiliary power supply: 7 mm</p> <p>Fault: 7 mm</p> <p>Relay test and fault reset: 7 mm</p> <p>Sensor: 7 mm</p> <p>Voltage presence: 7 mm</p> |
| Tightening torque | <p>Auxiliary power supply: 0.6 N.m</p> <p>Fault: 0.6 N.m</p> <p>Relay test and fault reset: 0.6 N.m</p> <p>Sensor: 0.6 N.m</p> <p>Voltage presence: 0.6 N.m</p> |
| Standards | <p>EN/IEC 60947-2 Annex M</p> <p>EN/IEC 60755</p> <p>UL 1053</p> <p>CAN/CSA C22.2 No. 144</p> |
| Width | 72 mm |
| Height | 72 mm |
| Depth | 78 mm |
| Cut-out dimensions | 68 x 68 mm |
| Net weight | 0.3 kg |
| IP degree of protection | <p>IP40 on front face: conforming to EN/IEC 60529</p> <p>IP30 on side parts: conforming to EN/IEC 60529</p> <p>IP20 on connection terminals: conforming to EN/IEC 60529</p> |
| IK degree of protection | IK07 conforming to EN 50102 |
| Mechanical robustness | <p>Fire resistance conforming to IEC 60695-2-1</p> <p>IK protection 2 joules: IK07 conforming to EN 50102</p> <p>Vibrations 13.2...100 Hz: 0.7 g</p> <p>Vibrations 2...13.2 Hz: +/- 1 mm</p> |
| Environment | |
| Overvoltage category | IV |
| Electrical shock protection class | Class II |
| Electromagnetic compatibility | <p>Conducted and radiated emissions: , B, conforming to CISPR 11</p> <p>Conducted radio-frequency immunity test: , 3, conforming to IEC 61000-4-6</p> <p>Electrostatic discharge immunity test: , 4, conforming to IEC 61000-4-2</p> <p>High-energy conducted susceptibility: , 4, conforming to IEC 61000-4-5</p> <p>Low-energy conducted susceptibility: , 4, conforming to IEC 61000-4-4</p> <p>Radiated susceptibility: , 3, conforming to IEC 61000-4-3</p> |
| Relative humidity | 95 % at 55 °C |
| Pollution degree | 3 conforming to IEC 60664-1 |
| Ambient air temperature for operation | -35...70 °C |

Ambient air temperature for storage -55...85 °C

Packing Units

Unit Type of Package 1 PCE

Number of Units in Package 1 1

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

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|--|----------------|
| Total lifecycle Carbon footprint | 50 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 3 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.1 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 46 kg CO2 eq. |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.7 kg CO2 eq. |

Use Longer




Lifetime extension

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| Repair | No |
|--------|----|

Use Again



Repack and remanufacture

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| WEEE Label |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
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