

Product datasheet

Specifications



Earth-leakage relay RH10P - 30 mA - 415 V

56240

❗ Discontinued on: 01 November 2020

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Main

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|--|---|
| Range | VigiPacT |
| 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 | 0.03 A |
| Earth-leakage time delay | Instantaneous |
| Current sensors compatibility | VigiPacT TOA earth leakage current sensor VigiPacT A earth leakage current sensor VigiPacT 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 IT TT |
| [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) |

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| Type of measurement | Earth fault current internal measurement, range: 80...100 % |
| Tamperproof of settings | Protected by sealable cover |
| Connections - terminals | Auxiliary power supply: terminal block cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12 Auxiliary power supply: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12 Auxiliary power supply: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12 Fault: terminal block cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12 Fault: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12 Fault: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12 Relay test and fault reset: terminal block cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12 Relay test and fault reset: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12 Relay test and fault reset: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12 Sensor: terminal block cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12 Sensor: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12 Sensor: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12 Voltage presence: terminal block cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12 Voltage presence: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12 Voltage presence: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12 |
| Wire stripping length | Auxiliary power supply: 7 mm Fault: 7 mm Relay test and fault reset: 7 mm Sensor: 7 mm Voltage presence: 7 mm |
| Tightening torque | Auxiliary power supply: 0.6 N.m Fault: 0.6 N.m Relay test and fault reset: 0.6 N.m Sensor: 0.6 N.m Voltage presence: 0.6 N.m |
| 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 | IP40 on front face: conforming to EN/IEC 60529 IP30 on side parts: conforming to EN/IEC 60529 IP20 on connection terminals: conforming to EN/IEC 60529 |
| IK degree of protection | IK07 conforming to EN 50102 |
| Mechanical robustness | Fire resistance conforming to IEC 60695-2-1 IK protection 2 joules: IK07 conforming to EN 50102 Vibrations 13.2...100 Hz: 0.7 g Vibrations 2...13.2 Hz: +/- 1 mm |
| Environment | |
| Overvoltage category | IV |
| Electrical shock protection class | Class II |
| Electromagnetic compatibility | Conducted and radiated emissions: , B, conforming to CISPR 11 Conducted radio-frequency immunity test: , 3, conforming to IEC 61000-4-6 Electrostatic discharge immunity test: , 4, conforming to IEC 61000-4-2 High-energy conducted susceptibility: , 4, conforming to IEC 61000-4-5 Low-energy conducted susceptibility: , 4, conforming to IEC 61000-4-4 Radiated susceptibility: , 3, conforming to IEC 61000-4-3 |
| 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 |
| Offer Sustainability | |
| Sustainable offer status | Green Premium product |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |


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|----------------------------|---|
| China RoHS Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Contractual warranty

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| Warranty | 18 months |
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Recommended replacement(s)

56240 is replaced by:

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| 1x |  | Earth-leakage relay RH99P with manual reset - 0.03..30 A - 0..4.5 s - 415 V 56274 |
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