



Main

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| Range | Vigirex |
| Device short name | RH99M |
| Product or component type | Residual current protection relay |
| Relay application | Protection relay |
| Mounting support | DIN rail |
| Earth-leakage protection class | Type A |
| Type of setting | Selector |
| Residual earth-leakage sensitivity adjustment type | Adjustable 9 settings |
| Earth-leakage sensitivity | 0.03...30 A |
| Earth-leakage time delay | Instantaneous for 0.03 A Adjustable 9 settings 0...4.5 s for 0.03...30 A |
| Current sensors compatibility | TOA earth leakage current sensor A earth leakage current sensor L earth leakage current sensor |
| [I _{th} e] conventional enclosed thermal current | 8 A |
| Minimum load | 10 mA at 12 V |
| [U _s] 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 | TT IT TN-S |
| Reset | Manual reset |

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Complementary

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| Test function | Local Remote test |
| 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 |
| 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: screw terminal cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12 Fault: screw terminal cable(s) 0.2...4 mm² rigid AWG 24...AWG 12 Fault: screw terminal cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12 Relay test and fault reset: screw terminal cable(s) 0.14...1 mm² flexible AWG 26...AWG 16 Relay test and fault reset: screw terminal cable(s) 0.14...1.5 mm² rigid AWG 26...AWG 16 Relay test and fault reset: screw terminal cable(s) 0.25...0.5 mm² flexible AWG 26...AWG 16 Sensor: screw terminal cable(s) 0.14...1 mm² flexible AWG 26...AWG 16 Sensor: screw terminal cable(s) 0.14...1.5 mm² rigid AWG 26...AWG 16 Sensor: screw terminal cable(s) 0.25...0.5 mm² flexible AWG 26...AWG 16 Voltage presence: screw terminal cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12 Voltage presence: screw terminal cable(s) 0.2...4 mm² rigid AWG 24...AWG 12 Voltage presence: screw terminal cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12 |
| Wire stripping length | Auxiliary power supply: 7 mm for top connection Fault: 8 mm for bottom connection Relay test and fault reset: 5 mm for bottom connection Sensor: 5 mm for top connection Voltage presence: 8 mm for bottom connection |
| Tightening torque | Auxiliary power supply: 0.6 N.m top Fault: 0.6 N.m bottom Relay test and fault reset: 0.25 N.m bottom Sensor: 0.25 N.m top Voltage presence: 0.6 N.m bottom |
| 9 mm pitches | 6 |
| Width | 54 mm |
| Height | 81 mm |
| Depth | 74 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

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| 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 |

Packing Units

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| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 275 g |
| Package 1 Height | 7.7 cm |
| Package 1 width | 8.5 cm |
| Package 1 Length | 9.5 cm |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 36 |
| Package 2 Weight | 10.351 kg |
| Package 2 Height | 30 cm |
| Package 2 width | 30 cm |
| Package 2 Length | 40 cm |

Offer Sustainability

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| Sustainable offer status | Green Premium product |
| REACH Regulation |  REACH Declaration |
| EU RoHS Directive | Compliant  EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information |  Yes |
| China RoHS Regulation |  China RoHS Declaration |
| 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 |
| PVC free | Yes |

Contractual warranty

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| Warranty | 18 months |
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