



## Main

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|---------------------------|------------------------------------------------------------------------------------------|
| Range                     | Vigirex                                                                                  |
| Range of product          | Vigirex                                                                                  |
| Device short name         | RH10M                                                                                    |
| Product or component type | Residual current protection relay                                                        |
| Range compatibility       | Vigirex RH TOA earth leakage current sensor<br>Vigirex RH A earth leakage current sensor |
| Relay application         | Residual current protection relay                                                        |

## Complementary

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| Earthing system                                          | TN-S<br>IT<br>TT                                                                                                                                                                                                                                                                                                       |
| [Us] rated supply voltage                                | 380...415 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                |
| Power consumption in VA                                  | 4 VA                                                                                                                                                                                                                                                                                                                   |
| Type of measurement                                      | Earth fault current internal measurement, range: 80...100 %                                                                                                                                                                                                                                                            |
| Residual earth-leakage time delay adjustment type        | Instantaneous 0.3 A                                                                                                                                                                                                                                                                                                    |
| Test function                                            | Remote test<br>Local                                                                                                                                                                                                                                                                                                   |
| Monitoring                                               | Electronics (continuous)<br>Power supply (continuous)<br>Relay/sensor link (continuous)                                                                                                                                                                                                                                |
| [I <sub>th</sub> ] conventional enclosed thermal current | 8 A                                                                                                                                                                                                                                                                                                                    |
| Minimum load                                             | 10 mA at 12 V                                                                                                                                                                                                                                                                                                          |
| Product weight                                           | 0.3 kg                                                                                                                                                                                                                                                                                                                 |
| Mechanical robustness                                    | Fire resistance conforming to IEC 60695-2-1<br>IK protection 2 joules: IK07 conforming to EN 50102<br>IP protection: IP20 conforming to IEC 60529<br>IP protection: IP30 conforming to IEC 60529<br>IP protection: IP40 conforming to IEC 60529<br>Vibrations 13.2...100 Hz: 0.7 g<br>Vibrations 2...13.2 Hz: +/- 1 mm |

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| Earth-leakage protection class | Class A si<br>Class AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Overvoltage category           | IV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Tamperproof of settings        | Protected by sealable cover                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Mounting support               | DIN rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Height                         | 97 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Width                          | 54 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Depth                          | 74 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 9 mm pitches                   | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Connections - terminals        | Auxiliary power supply: terminal block cable(s) 0.2...2.5 mm <sup>2</sup> flexible AWG 24...AWG 12<br>Auxiliary power supply: terminal block cable(s) 0.2...2.5 mm <sup>2</sup> rigid AWG 24...AWG 12<br>Auxiliary power supply: terminal block cable(s) 0.25...2.5 mm <sup>2</sup> flexible AWG 24...AWG 12<br>Fault: screw terminal cable(s) 0.2...2.5 mm <sup>2</sup> flexible AWG 24...AWG 12<br>Fault: screw terminal cable(s) 0.2...4 mm <sup>2</sup> rigid AWG 24...AWG 12<br>Fault: screw terminal cable(s) 0.25...2.5 mm <sup>2</sup> flexible AWG 24...AWG 12<br>Relay test and fault reset: screw terminal cable(s) 0.14...1 mm <sup>2</sup> flexible AWG 26...AWG 16<br>Relay test and fault reset: screw terminal cable(s) 0.14...1.5 mm <sup>2</sup> rigid AWG 26...AWG 16<br>Relay test and fault reset: screw terminal cable(s) 0.25...0.5 mm <sup>2</sup> flexible AWG 26...AWG 16<br>Sensor: screw terminal cable(s) 0.14...1 mm <sup>2</sup> flexible AWG 26...AWG 16<br>Sensor: screw terminal cable(s) 0.14...1.5 mm <sup>2</sup> rigid AWG 26...AWG 16<br>Sensor: screw terminal cable(s) 0.25...0.5 mm <sup>2</sup> flexible AWG 26...AWG 16<br>Voltage presence: screw terminal cable(s) 0.2...2.5 mm <sup>2</sup> flexible AWG 24...AWG 12<br>Voltage presence: screw terminal cable(s) 0.2...4 mm <sup>2</sup> rigid AWG 24...AWG 12<br>Voltage presence: screw terminal cable(s) 0.25...2.5 mm <sup>2</sup> flexible AWG 24...AWG 12 |
| Wire stripping length          | Auxiliary power supply: 7 mm for top connection<br>Fault: 8 mm for bottom connection<br>Relay test and fault reset: 5 mm for bottom connection<br>Sensor: 5 mm for top connection<br>Voltage presence: 8 mm for bottom connection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Tightening torque              | Auxiliary power supply: 0.6 N.m top<br>Fault: 0.6 N.m bottom<br>Relay test and fault reset: 0.25 N.m bottom<br>Sensor: 0.25 N.m top<br>Voltage presence: 0.6 N.m bottom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Environment

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| Ambient air temperature for operation | -35...70 °C                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Ambient air temperature for storage   | -55...85 °C                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Electromagnetic compatibility         | Conducted and radiated emissions: , B, conforming to CISPR 11<br>Conducted radio-frequency immunity test: , 3, conforming to IEC 61000-4-6<br>Electrostatic discharge immunity test: , 4, conforming to IEC 61000-4-2<br>High-energy conducted susceptibility: , 4, conforming to IEC 61000-4-5<br>Low-energy conducted susceptibility: , 4, conforming to IEC 61000-4-4<br>Radiated susceptibility: , 3, conforming to IEC 61000-4-3 |
| Electrical shock protection class     | Class II                                                                                                                                                                                                                                                                                                                                                                                                                              |

## Offer Sustainability

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                       |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                           |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a>                                                                            |
| Mercury free               | Yes                                                                                                                         |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information       |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                               |
| Circularity Profile        | <a href="#">End of Life Information</a>                                                                                     |
| 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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