



### Main

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|--|--|
| Range  | Vigirex  |
| Device short name                                  | RH21M  |
| 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 2 settings  |
| Earth-leakage sensitivity                          | 0.03 A<br>0.3 A  |
| Earth-leakage time delay                           | Instantaneous for 0.03 A<br>Instantaneous for 0.3 A<br>Fixed 0.06 s for 0.3 A                        |
| Current sensors compatibility                      | TOA earth leakage current sensor<br>A earth leakage current sensor<br>L earth leakage current sensor |
| [I] conventional enclosed thermal current          | 8 A  |
| Minimum load                                       | 10 mA at 12 V  |
| [U <sub>s</sub> ] rated supply voltage             | 220...240 V AC 50/60 Hz 55...110 %   |
| Power consumption in VA                            | 4 VA   |
| Monitored distribution system                      | 1000 V - AC at 50/60 Hz (maximum)<br>1000 V - AC at 400 Hz (maximum)                                 |
| Earthing system                                    | IT<br>TT<br>TN-S   |
| Reset  | Manual reset   |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## Complementary

|                         |   |
|-------------------------|---|
| Test function           | Local<br>Remote test  |
| Monitoring              | Electronics (continuous)<br>Power supply (continuous)<br>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 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   |
| 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<br>IP30 on side parts: conforming to EN/IEC 60529<br>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<br>IK protection 2 joules: IK07 conforming to EN 50102<br>Vibrations 13.2...100 Hz: 0.7 g<br>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<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 |
| 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         |
| Package 1 Weight             | 311 g     |
| Package 1 Height             | 7.8 cm    |
| Package 1 width              | 8.8 cm    |
| Package 1 Length             | 9.3 cm    |
| Unit Type of Package 2       | S03       |
| Number of Units in Package 2 | 36        |
| Package 2 Weight             | 11.683 kg |
| Package 2 Height             | 30 cm     |
| Package 2 width              | 30 cm     |
| Package 2 Length             | 40 cm     |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| EU RoHS Directive          | Compliant <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>  |
| 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 |
| PVC free                   | Yes   |

## Contractual warranty

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