## Characteristics

**56173**

Earth-leakage relay RH99M with manual reset - 0.03..30 A - 0..4.5 s - 240 V

### Main

<table>
<thead>
<tr>
<th>Range</th>
<th>Vigirex</th>
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<tbody>
<tr>
<td>Range of product</td>
<td>Vigirex</td>
</tr>
<tr>
<td>Device short name</td>
<td>RH99M</td>
</tr>
<tr>
<td>Product or component type</td>
<td>Residual current protection relay</td>
</tr>
</tbody>
</table>
| Range compatibility | Vigirex RH TOA earth leakage current sensor
Vigirex RH A earth leakage current sensor |
| Relay application | Residual current protection relay |

### Complementary

<table>
<thead>
<tr>
<th>Earthing system</th>
<th>IT</th>
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<tr>
<td>TT</td>
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<tr>
<td>TN-S</td>
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</tbody>
</table>
| [Us] rated supply voltage | 220...240 V AC at 50/60 Hz
220...240 V AC at 400 Hz |
| Power consumption in VA | 4 VA |
| Type of measurement | Earth fault current internal measurement 80...100 % |
| Residual earth-leakage time delay adjustment type | Instantaneous 0.03 A
Adjustable 9 settings 0.03...30 A 0...4.5 s |
| Test function | Local
Remote test |
| Monitoring | Electronics (continuous)
Power supply (continuous)
Relay/sensor link (continuous) |
| [Ithe] conventional enclosed thermal current | 8 A |
| Minimum load | 10 mA at 12 V |
| Product weight | 0.3 kg |
| Mechanical robustness | IK protection 2 joules IK07 conforming to EN 50102
IP protection IP20 conforming to IEC 60529
IP protection IP30 conforming to IEC 60529
IP protection IP40 conforming to IEC 60529
Vibrations 13.2...100 Hz 0.7 g
Vibrations 2...13.2 Hz +/- 1 mm
Fire resistance conforming to IEC 60695-2-1 |
| Earth-leakage protection class | Class A si
Class AC |

Disclaimer: 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.
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  Terminal block auxiliary power supply 0.2...2.5 mm² flexible AWG 24...AWG 12
Terminal block auxiliary power supply 0.2...2.5 mm² rigid AWG 24...AWG 12
Screw terminal fault 0.2...2.5 mm² flexible AWG 24...AWG 12
Screw terminal fault 0.2...4 mm² rigid AWG 24...AWG 12
Screw terminal relay test and fault reset 0.14...1 mm² flexible AWG 26...AWG 16
Screw terminal relay test and fault reset 0.14...1.5 mm² rigid AWG 26...AWG 16
Screw terminal sensor 0.14...1 mm² flexible AWG 26...AWG 16
Screw terminal sensor 0.14...1.5 mm² rigid AWG 26...AWG 16
Screw terminal voltage presence 0.2...2.5 mm² flexible AWG 24...AWG 12
Screw terminal voltage presence 0.2...4 mm² rigid AWG 24...AWG 12
Terminal block auxiliary power supply 0.25...2.5 mm² flexible AWG 24...AWG 12
Screw terminal fault 0.25...2.5 mm² flexible AWG 24...AWG 12
Screw terminal relay test and fault reset 0.25...0.5 mm² flexible AWG 26...AWG 16
Screw terminal relay test and fault reset 0.25...0.5 mm² rigid AWG 26...AWG 16
Screw terminal sensor 0.25...0.5 mm² flexible AWG 26...AWG 16
Screw terminal sensor 0.25...0.5 mm² rigid AWG 26...AWG 16
Screw terminal voltage presence 0.25...2.5 mm² flexible AWG 24...AWG 12
Screw terminal voltage presence 0.25...2.5 mm² rigid AWG 24...AWG 12
Wire stripping length  Auxiliary power supply : 7 mm top
Relay test and fault reset : 5 mm bottom
Sensor : 5 mm top
Fault : 8 mm bottom
Voltage presence : 8 mm bottom
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

Environment
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
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

Electrical shock protection class  Class II

Contractual warranty
Warranty period  18 months