56173
residual current protection relay, Vigirex RH99M, 30 mA to 30 A, 220 VAC to 240 VAC 50/60 Hz, local manual reset

Main
Range Vigirex
Range of product Vigirex
Device short name RH99M
Product or component type Residual current protection relay
Range compatibility Vigirex RH TOA earth leakage current sensor
Vigirex RH A earth leakage current sensor
Relay application Residual current protection relay

Complementary
Earthing system TN-S
TT
IT
[Us] rated supply voltage 220...240 V AC 50/60 Hz
220...240 V AC 400 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 0.03 A
Adjustable 9 settings 0.03...30 A 0...4.5 s
Test function Remote test
Local
Monitoring Electronics (continuous)
Power supply (continuous)
Relay/sensor link (continuous)
[Ithe] conventional enclosed thermal current 8 A
Minimum load 10 mA at 12 V
Net weight 0.3 kg
Mechanical robustness Fire resistance conforming to IEC 60695-2-1
IK protection 2 joules: IK07 conforming to EN 50102

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

Jan 4, 2020
| **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  
| **Earth-leakage protection class** | Class A si  
| **Earth-leakage protection class** | 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 mm² flexible AWG 24...AWG 12  
| **Connections - terminals** | Auxiliary power supply: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12  
| **Connections - terminals** | Auxiliary power supply: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12  
| **Connections - terminals** | Fault: screw terminal cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12  
| **Connections - terminals** | Fault: screw terminal cable(s) 0.2...4 mm² rigid AWG 24...AWG 12  
| **Connections - terminals** | Relay test and fault reset: screw terminal cable(s) 0.14...1 mm² flexible AWG 26...AWG 16  
| **Connections - terminals** | Relay test and fault reset: screw terminal cable(s) 0.14...1.5 mm² rigid AWG 26...AWG 16  
| **Connections - terminals** | Relay test and fault reset: screw terminal cable(s) 0.25...0.5 mm² flexible AWG 26...AWG 16  
| **Connections - terminals** | Sensor: screw terminal cable(s) 0.14...1 mm² flexible AWG 26...AWG 16  
| **Connections - terminals** | Sensor: screw terminal cable(s) 0.14...1.5 mm² rigid AWG 26...AWG 16  
| **Connections - terminals** | Sensor: screw terminal cable(s) 0.25...0.5 mm² flexible AWG 26...AWG 12  
| **Connections - terminals** | Voltage presence: screw terminal cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12  
| **Connections - terminals** | Voltage presence: screw terminal cable(s) 0.2...4 mm² rigid AWG 24...AWG 12  
| **Connections - terminals** | 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  
| **Wire stripping length** | Fault: 8 mm for bottom connection  
| **Wire stripping length** | Relay test and fault reset: 5 mm for bottom connection  
| **Wire stripping length** | Sensor: 5 mm for top connection  
| **Wire stripping length** | Voltage presence: 8 mm for bottom connection  
| **Tightening torque** | Auxiliary power supply: 0.6 N.m top  
| **Tightening torque** | Fault: 0.6 N.m bottom  
| **Tightening torque** | Relay test and fault reset: 0.25 N.m bottom  
| **Tightening torque** | Sensor: 0.25 N.m top  
| **Tightening torque** | 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  
- **Electromagnetic compatibility**: Conducted radio-frequency immunity test: , 3, conforming to IEC 61000-4-6  
- **Electromagnetic compatibility**: Electrostatic discharge immunity test: , 4, conforming to IEC 61000-4-2  
- **Electromagnetic compatibility**: High-energy conducted susceptibility: , 4, conforming to IEC 61000-4-5  
- **Electromagnetic compatibility**: Low-energy conducted susceptibility: , 4, conforming to IEC 61000-4-4  
- **Electromagnetic compatibility**: Radiated susceptibility: , 3, conforming to IEC 61000-4-3

### Electrical shock protection class

- **Class II**

### Offer Sustainability

- **Sustainable offer status**: Green Premium product  
- **REAcH Regulation**: REAcH Declaration  
- **EU RoHS Directive**: Compliant  
- **EU RoHS Directive**: EU RoHS Declaration  
- **Mercury free**: Yes  
- **RoHS exemption information**: Yes  
- **China RoHS Regulation**: China RoHS declaration  
- **China RoHS Regulation**: Product out of China RoHS scope. Substance declaration for your information  
- **Environmental Disclosure**: Product Environmental Profile  
- **Circularity Profile**: End of Life Information
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<th>WEEE</th>
<th>The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins</th>
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**Contractual warranty**

| Warranty | 18 months |