



### 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	TT IT TN-S
[Us] rated supply voltage	110...130 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 0.03 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 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 AC Class A si
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 Auxiliary power supply: terminal block cable(s) 0.2...2.5 mm <sup>2</sup> rigid AWG 24...AWG 12 Auxiliary power supply: terminal block cable(s) 0.25...2.5 mm <sup>2</sup> flexible AWG 24...AWG 12 Fault: screw terminal cable(s) 0.2...2.5 mm <sup>2</sup> flexible AWG 24...AWG 12 Fault: screw terminal cable(s) 0.2...4 mm <sup>2</sup> rigid AWG 24...AWG 12 Fault: screw terminal cable(s) 0.25...2.5 mm <sup>2</sup> flexible AWG 24...AWG 12 Relay test and fault reset: screw terminal cable(s) 0.14...1 mm <sup>2</sup> flexible AWG 26...AWG 16 Relay test and fault reset: screw terminal cable(s) 0.14...1.5 mm <sup>2</sup> rigid AWG 26...AWG 16 Relay test and fault reset: screw terminal cable(s) 0.25...0.5 mm <sup>2</sup> flexible AWG 26...AWG 16 Sensor: screw terminal cable(s) 0.14...1 mm <sup>2</sup> flexible AWG 26...AWG 16 Sensor: screw terminal cable(s) 0.14...1.5 mm <sup>2</sup> rigid AWG 26...AWG 16 Sensor: screw terminal cable(s) 0.25...0.5 mm <sup>2</sup> flexible AWG 26...AWG 16 Voltage presence: screw terminal cable(s) 0.2...2.5 mm <sup>2</sup> flexible AWG 24...AWG 12 Voltage presence: screw terminal cable(s) 0.2...4 mm <sup>2</sup> rigid AWG 24...AWG 12 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 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

## 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

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <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> 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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