



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 IT TT
[Us] rated supply voltage	12...24 V AC 50/60 Hz 12...48 V DC
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
Product 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 ² flexible AWG 24...AWG 12 Auxiliary power supply: terminal block cable(s) 0.2...2.5 mm ² rigid AWG 24...AWG 12 Auxiliary power supply: terminal block cable(s) 0.25...2.5 mm ² flexible AWG 24...AWG 12 Fault: screw terminal cable(s) 0.2...2.5 mm ² flexible AWG 24...AWG 12 Fault: screw terminal cable(s) 0.2...4 mm ² rigid AWG 24...AWG 12 Fault: screw terminal cable(s) 0.25...2.5 mm ² flexible AWG 24...AWG 12 Relay test and fault reset: screw terminal cable(s) 0.14...1 mm ² flexible AWG 26...AWG 16 Relay test and fault reset: screw terminal cable(s) 0.14...1.5 mm ² rigid AWG 26...AWG 16 Relay test and fault reset: screw terminal cable(s) 0.25...0.5 mm ² flexible AWG 26...AWG 16 Sensor: screw terminal cable(s) 0.14...1 mm ² flexible AWG 26...AWG 16 Sensor: screw terminal cable(s) 0.14...1.5 mm ² rigid AWG 26...AWG 16 Sensor: screw terminal cable(s) 0.25...0.5 mm ² flexible AWG 26...AWG 16 Voltage presence: screw terminal cable(s) 0.2...2.5 mm ² flexible AWG 24...AWG 12 Voltage presence: screw terminal cable(s) 0.2...4 mm ² rigid AWG 24...AWG 12 Voltage presence: screw terminal cable(s) 0.25...2.5 mm ² 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	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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Contractual warranty

Warranty	18 months
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