



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	IT TT TN-S
[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	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	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
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 mm ² flexible AWG 24...AWG 12 Terminal block auxiliary power supply 0.2...2.5 mm ² rigid AWG 24...AWG 12 Screw terminal fault 0.2...2.5 mm ² flexible AWG 24...AWG 12 Screw terminal fault 0.2...4 mm ² rigid AWG 24...AWG 12 Screw terminal relay test and fault reset 0.14...1 mm ² flexible AWG 26...AWG 16 Screw terminal relay test and fault reset 0.14...1.5 mm ² rigid AWG 26...AWG 16 Screw terminal sensor 0.14...1 mm ² flexible AWG 26...AWG 16 Screw terminal sensor 0.14...1.5 mm ² rigid AWG 26...AWG 16 Screw terminal voltage presence 0.2...2.5 mm ² flexible AWG 24...AWG 12 Screw terminal voltage presence 0.2...4 mm ² rigid AWG 24...AWG 12 Terminal block auxiliary power supply 0.25...2.5 mm ² flexible AWG 24...AWG 12 Screw terminal fault 0.25...2.5 mm ² flexible AWG 24...AWG 12 Screw terminal relay test and fault reset 0.25...0.5 mm ² flexible AWG 26...AWG 16 Screw terminal sensor 0.25...0.5 mm ² flexible AWG 26...AWG 16 Screw terminal voltage presence 0.25...2.5 mm ² flexible 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
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