Product data sheet
Characteristics

56175
residual current protection relay, Vigirex RH99M, 30 mA to 30 A, 440/525 VAC 50/60 Hz, DIN rail mounting

Main

Range	Vigirex
Device short name	RH99M
Product or component type	Residual current protection relay
Relay application	Protection relay
Mounting support	DIN rail
Earth-leakage protection class	Type A
Type of setting	Selector
Residual earth-leakage sensitity adjustment type	Adjustable 9 settings
Earth-leakage sensitivity	0.03…30 A
Earth-leakage time delay	Instantaneous for 0.03 A Adjustable 9 settings 0…4.5 s for 0.03…30 A
Current sensors compatibility	TOA earth leakage current sensor A earth leakage current sensor L earth leakage current sensor
[Ithe] conventional enclosed thermal current	8 A
Minimum load	10 mA at 12 V
[Us] rated supply voltage	440...525 V AC 50/60 Hz 70...110 %
Power consumption in VA	4 VA
Monitored distribution system	1000 V - AC at 50/60 Hz (maximum) 1000 V - AC at 400 Hz (maximum)
Earthing system	TT IT TN-S
Reset	Manual reset

Complementary

Test function	Local Remote test
Monitoring	Electronics (continuous) Power supply (continuous) Relay/sensor link (continuous)
Type of measurement	Earth fault current internal measurement, range: 80...100 %
Tamperproof of settings	Protected by sealable cover
Connections - terminals	Auxiliary power supply: terminal block cable(s) 0.2…2.5 mm² flexible AWG 24...AWG 12 Auxiliary power supply: terminal block cable(s) 0.2…2.5 mm² rigid AWG 24...AWG 12 Auxiliary power supply: terminal block cable(s) 0.25…2.5 mm² flexible AWG 24...AWG 12 Fault: screw terminal cable(s) 0.2…2.5 mm² flexible AWG 24...AWG 12 Fault: screw terminal cable(s) 0.2…4 mm² rigid AWG 24...AWG 12 Fault: screw terminal cable(s) 0.25…2.5 mm² flexible AWG 24...AWG 12 Relay test and fault reset: screw terminal cable(s) 0.14…1 mm² flexible AWG 26...AWG 16 Relay test and fault reset: screw terminal cable(s) 0.14…1.5 mm² rigid AWG 26...AWG 16 Relay test and fault reset: screw terminal cable(s) 0.25…0.5 mm² flexible AWG 26...AWG 16 Sensor: screw terminal cable(s) 0.14…1 mm² flexible AWG 26...AWG 16 Sensor: screw terminal cable(s) 0.14…1.5 mm² rigid AWG 26...AWG 16 Sensor: screw terminal cable(s) 0.25…0.5 mm² flexible AWG 26...AWG 16 Voltage presence: screw terminal cable(s) 0.2…2.5 mm² flexible AWG 24...AWG 12 Voltage presence: screw terminal cable(s) 0.2…4 mm² rigid AWG 24...AWG 12 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 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
9 mm pitches	6
Width	54 mm
Height	81 mm
Depth	74 mm
Net weight	0.3 kg
IP degree of protection	IP40 on front face: conforming to EN/IEC 60529 IP30 on side parts: conforming to EN/IEC 60529 IP20 on connection terminals: conforming to EN/IEC 60529
IK degree of protection	IK07 conforming to EN 50102
Mechanical robustness	Fire resistance conforming to IEC 60695-2-1 IK protection 2 joules: IK07 conforming to EN 50102 Vibrations 13.2...100 Hz: 0.7 g Vibrations 2...13.2 Hz: +/- 1 mm

Environment

Overvoltage category	IV
Electrical shock protection class	Class II
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
Relative humidity	95 % at 55 °C
Pollution degree	3 conforming to IEC 60664-1
Ambient air temperature for operation	-35…70 °C
Ambient air temperature for storage	-55…85 °C

Packing Units

Package 1 Weight	0.304 kg
Package 1 Height	0.880 dm
Package 1 width	0.810 dm
Package 1 Length	0.820 dm

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
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
PVC free	Yes

Contractual warranty

Warranty	18 months