Product data sheet
Characteristics

56173
earth-leakage relay RH99M with manual reset - 0.03..30 A - 0..4.5 s - 240 V

Main

Relay application	Residual current protection relay
Range of product	Vigirex
Device short name	RH99M
Earthing system	IT TN-S TT
[Ue] rated operational voltage	220...240 V AC 400 Hz 220...240 V AC 50/60 Hz
Fault current detection threshold	80...100 % of IDn
Earth-leakage protection class	Class A si Class AC
Residual earth-leakage sensitity adjustment type	Adjustable 9
Residual earth-leakage time delay adjustment type	Instantaneous 0.03 A Adjustable 9 settings 0.03...30 A 0...4.5 s
Test function	Local Remote test
Monitoring	Relay/Sensor link (continuous) Power supply (continuous) Electronics (continuous)
[Uimp] rated impulse withstand voltage	8 kV
Minimum load	10 mA at 12 V
Signalling output current	8 A
Overvoltage category	IV
Power consumption	4 VA
Power consumption	4 W
Mounting support	DIN rail
Tamperproof of settings	Protected by sealable cover

Complementary

Alarm current detection range	80...100 %
9 mm pitches	6
Height	97 mm
Width	54 mm
Depth	74 mm
Product weight	0.3 kg
Mechanical robustness	Vibrations 2...13.2 Hz : +/- 1 mm Vibrations 13.2...100 Hz : 0.7 g IP protection : IP40 conforming to IEC 60529 IP protection : IP30 conforming to IEC 60529 IP protection : IP20 conforming to IEC 60529 IK protection 2 joules : IK07 conforming to EN 50102 Fire resistance conforming to IEC 60695-2-1

Auxiliary connection terminal	Voltage presence : screw terminal 0.25...2.5 mm² (AWG: AWG 24...AWG 12) for flexible Voltage presence : screw terminal 0.2...4 mm² (AWG: AWG 24...AWG 12) for rigid Voltage presence : screw terminal 0.2...2.5 mm² (AWG: AWG 24...AWG 12) for flexible Sensor : screw terminal 0.25...0.5 mm² (AWG: AWG 26...AWG 16) for flexible Sensor : screw terminal 0.14...1.5 mm² (AWG: AWG 26...AWG 16) for rigid Sensor : screw terminal 0.14...1 mm² (AWG: AWG 26...AWG 16) for flexible Relay test and fault reset : screw terminal 0.25...0.5 mm² (AWG: AWG 26...AWG 16) for flexible Relay test and fault reset : screw terminal 0.14...1.5 mm² (AWG: AWG 26...AWG 16) for rigid Relay test and fault reset : screw terminal 0.14...1 mm² (AWG: AWG 26...AWG 16) for flexible Fault : screw terminal 0.25...2.5 mm² (AWG: AWG 24...AWG 12) for flexible Fault : screw terminal 0.2...4 mm² (AWG: AWG 24...AWG 12) for rigid Fault : screw terminal 0.2...2.5 mm² (AWG: AWG 24...AWG 12) for flexible Auxiliary power supply : terminal block 0.25...2.5 mm² (AWG: AWG 24...AWG 12) for flexible Auxiliary power supply : terminal block 0.2...2.5 mm² (AWG: AWG 24...AWG 12) for rigid Auxiliary power supply : terminal block 0.2...2.5 mm² (AWG: AWG 24...AWG 12) for flexible
Wire stripping length	Voltage presence : 8 mm bottom Sensor : 5 mm top Relay test and fault reset : 5 mm bottom Fault : 8 mm bottom Auxiliary power supply : 7 mm top
Tightening torque	Voltage presence : 0.6 N.m bottom Sensor : 0.25 N.m top Relay test and fault reset : 0.25 N.m bottom Fault : 0.6 N.m bottom Auxiliary power supply : 0.6 N.m top

Environment

Class of protection against electric shock	Class II
Immunity to microbreaks	<= 60 ms
Electromagnetic compatibility	Radiated susceptibility : 3 conforming to IEC 61000-4-3 Low-energy conducted susceptibility : 4 conforming to IEC 61000-4-4 High-energy conducted susceptibility : 4 conforming to IEC 61000-4-5 Electrostatic discharge immunity test : 4 conforming to IEC 61000-4-2 Conducted radio-frequency immunity test : 3 conforming to IEC 61000-4-6 Conducted and radiated emissions : B conforming to CISPR 11
Climatic withstand	Heat loss : 4.45 MJ Pollution degree : 3
Ambient air temperature for operation	-35...70 °C
Ambient air temperature for storage	-55...85 °C