56170

earth-leakage relay RH99M with manual reset - 0.03..30 A - 0..4.5 s - 24 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	1224 V AC 50/60 Hz 1248 V DC
Fault current detection threshold	80100 % 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 0.0330 A 04.5 s
Test function	Local Remote test
	Nemote test
Monitoring	Electronics (continuous) Power supply (continuous) Relay/sensor link (continuous)
Monitoring [Uimp] rated impulse withstand voltage	Electronics (continuous) Power supply (continuous)
[Uimp] rated impulse withstand	Electronics (continuous) Power supply (continuous) Relay/sensor link (continuous)
[Uimp] rated impulse withstand voltage	Electronics (continuous) Power supply (continuous) Relay/sensor link (continuous) 8 kV
[Uimp] rated impulse withstand voltage Minimum load	Electronics (continuous) Power supply (continuous) Relay/sensor link (continuous) 8 kV 10 mA at 12 V
[Uimp] rated impulse withstand voltage Minimum load Signalling output current	Electronics (continuous) Power supply (continuous) Relay/sensor link (continuous) 8 kV 10 mA at 12 V 8 A
[Uimp] rated impulse withstand voltage Minimum load Signalling output current Overvoltage category	Electronics (continuous) Power supply (continuous) Relay/sensor link (continuous) 8 kV 10 mA at 12 V 8 A
[Uimp] rated impulse withstand voltage Minimum load Signalling output current Overvoltage category Power consumption	Electronics (continuous) Power supply (continuous) Relay/sensor link (continuous) 8 kV 10 mA at 12 V 8 A IV 4 VA

Complementary

Alarm current detection range	80100 %
9 mm pitches	6
Height	97 mm
Width	54 mm
Depth	74 mm
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 13.2100 Hz: 0.7 g Vibrations 213.2 Hz: +/- 1 mm
Auxiliary connection terminal	Auxiliary power supply: terminal block 0.22.5 mm² (AWG: 2412) for flexible Auxiliary power supply: terminal block 0.22.5 mm² (AWG: 2412) for rigid Auxiliary power supply: terminal block 0.252.5 mm² (AWG: 2412) for flexible Fault: screw terminal 0.22.5 mm² (AWG: 2412) for flexible Fault: screw terminal 0.24 mm² (AWG: 2412) for rigid Fault: screw terminal 0.252.5 mm² (AWG: 2412) for flexible Relay test and fault reset: screw terminal 0.141 mm² (AWG: 2616) for flexible Relay test and fault reset: screw terminal 0.141.5 mm² (AWG: 2616) for rigid Sensor: screw terminal 0.141 mm² (AWG: 2616) for flexible Sensor: screw terminal 0.141.5 mm² (AWG: 2616) for rigid

Voltage presence: screw terminal 0.2...2.5 mm² (AWG: 24...12) for flexible

	Voltage presence: screw terminal 0.24 mm² (AWG: 2412) for rigid Voltage presence: screw terminal 0.252.5 mm² (AWG: 2412) for flexible Relay test and fault reset: screw terminal 0.250.5 mm² (AWG: 2616) for flexible Sensor: screw terminal 0.250.5 mm² (AWG: 2616) for flexible
Wire stripping length	Auxiliary power supply: 7 mm top Fault: 8 mm bottom Relay test and fault reset: 5 mm bottom Sensor: 5 mm top 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

Class of protection against electric shock	Class II
Immunity to microbreaks	<= 60 ms
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
Climatic withstand	Heat loss: 4.45 MJ Pollution degree: 3
Ambient air temperature for operation	-3570 °C
Ambient air temperature for storage	-5585 °C

