Product datasheet

Specifications

Green Premium™

Residual current monitoring relay, VigiPacT RH99M, 30mA-30A, 12/24VAC 50/60Hz, 12/48VDC, DIN rail mounting

56190

Main

Range	VigiPacT
Device Short Name	RH99M
Product Or Component Type	Monitoring relay
Relay Application	Monitoring relay
Mounting Support	DIN rail
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
Threshold Setting	0.03...30 A alarm
Current Sensors Compatibility	VigiPacT TOA earth leakage current sensor VigiPacT A earth leakage current sensor VigiPacT L earth leakage current sensor
[Ithe] Conventional Enclosed Thermal Current	8 A
Minimum Load	10 mA at 12 V
[Us] Rated Supply Voltage	12...24 V AC 50/60 Hz 55...120 % 12...48 V DC 55...120 %
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 TN-S
[Uimp] Rated Impulse Withstand Voltage	8 kV

Complementary

Test Function	Remote test Local
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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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 with ferrule 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 with ferrule 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 with ferrule 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 with ferrule 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 with ferrule 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
Standards	EN/IEC 60947-2 Annex M EN/IEC 60755 UL 1053 CAN/CSA C22.2 No. 144
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

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	8.500 cm
Package 1 Width	9.000 cm
Package 1 Length	8.000 cm
Package 1 Weight	183.000 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	36
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	6.588 kg

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

Well-being performance

Mercury Free	
Rohs Exemption Information	Yes
Pvc Free	

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information