Product data sheet

Specifications

Green Premium™

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

56170

Discontinued

Main

Range	VigiPacT
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	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 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 50/60 Hz maximum) 1000 V - AC 400 Hz maximum)
Earthing System	TN-S IT TT
[Uimp] Rated Impulse Withstand Voltage	8 kV
Reset	Manual reset

Complementary

Test Function	Remote test Local
Monitoring	Electronics continuous) Power supply continuous) Relay/sensor link continuous)
Type Of Measurement	Earth fault current internal measurement 80...100 %
Tamperproof Of Settings	Protected by sealable cover

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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 0.00…0.00 in² (0.2…2.5 mm²) flexible AWG 24...AWG 12 Auxiliary power supply terminal block 0.00…0.00 in² (0.2…2.5 mm²) rigid AWG 24...AWG 12 Auxiliary power supply terminal block 0.00…0.00 in² (0.25…2.5 mm²) flexible AWG 24...AWG 12 Fault screw terminal 0.00…0.00 in² (0.2…2.5 mm²) flexible AWG 24...AWG 12 Fault screw terminal 0.00…0.01 in² (0.2…4 mm²) rigid AWG 24...AWG 12 Fault screw terminal 0.00…0.00 in² (0.25…2.5 mm²) flexible AWG 24...AWG 12 Relay test and fault reset screw terminal 0.00…0.00 in² (0.14…1 mm²) flexible AWG 26...AWG 16 Relay test and fault reset screw terminal 0.00…0.00 in² (0.14…1.5 mm²) rigid AWG 26...AWG 16 Relay test and fault reset screw terminal 0.00…0.00 in² (0.25…0.5 mm²) flexible AWG 26...AWG 16 Sensor screw terminal 0.00…0.00 in² (0.14…1 mm²) flexible AWG 26...AWG 16 Sensor screw terminal 0.00…0.00 in² (0.14…1.5 mm²) rigid AWG 26...AWG 16 Sensor screw terminal 0.00…0.00 in² (0.25…0.5 mm²) flexible AWG 26...AWG 16 Voltage presence screw terminal 0.00…0.00 in² (0.2…2.5 mm²) flexible AWG 24...AWG 12 Voltage presence screw terminal 0.00…0.01 in² (0.2…4 mm²) rigid AWG 24...AWG 12 Voltage presence screw terminal 0.00…0.00 in² (0.25…2.5 mm²) flexible AWG 24...AWG 12
Wire Stripping Length	Auxiliary power supply: 0.28 in (7 mm) for top connection Fault: 0.31 in (8 mm) for bottom connection Relay test and fault reset: 0.20 in (5 mm) for bottom connection Sensor: 0.20 in (5 mm) for top connection Voltage presence: 0.31 in (8 mm) for bottom connection
Tightening Torque	Auxiliary power supply: 5.31 lbf.in (0.6 N.m) top Fault: 5.31 lbf.in (0.6 N.m) bottom Relay test and fault reset: 2.21 lbf.in (0.25 N.m) bottom Sensor: 2.21 lbf.in (0.25 N.m) top Voltage presence: 5.31 lbf.in (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	2.13 in (54 mm)
Height	3.19 in (81 mm)
Depth	2.91 in (74 mm)
Net Weight	0.66 lb(US) (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 IEC 60695-2-1 IK protection 2 joulesIK07 EN 50102 Vibrations 13.2...100 Hz0.7 g Vibrations 2...13.2 Hz+/- 1 mm

Environment

Overvoltage Category	IV
Electrical Shock Protection Class	Class II
Electromagnetic Compatibility	Conducted and radiated emissionsB CISPR 11 Conducted radio-frequency immunity test3 IEC 61000-4-6 Electrostatic discharge immunity test4 IEC 61000-4-2 High-energy conducted susceptibility4 IEC 61000-4-5 Low-energy conducted susceptibility4 IEC 61000-4-4 Radiated susceptibility3 IEC 61000-4-3
Relative Humidity	95 % 131 °F (55 °C)

Pollution Degree	3 IEC 60664-1
Ambient Air Temperature For Operation	-31…158 °F (-35…70 °C)
Ambient Air Temperature For Storage	-67…185 °F (-55…85 °C)

Ordering and shipping details

Category	00992-UL VIGIREX GROUND FAULT RELAY & SENSOR
Discount Schedule	DE2
Gtin	3303430561705
Returnability	No
Country Of Origin	FR

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.35 in (8.500 cm)
Package 1 Width	3.54 in (9.000 cm)
Package 1 Length	2.99 in (7.600 cm)
Package 1 Weight	6.42 oz (182.000 g)
Unit Type Of Package 2	S03
Number Of Units In Package 2	36
Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	15.52 lb(US) (7.040 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