

56192
Residual current monitoring relay, VigiPacT
RH99M, 30mA-30A, 110/130VAC 50/60Hz,
DIN rail mounting



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 sensivity 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 12 V
[Us] rated supply voltage	110...130 V AC 50/60 Hz 55...110 %
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 TT
[Uimp] rated impulse withstand voltage	8 kV

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Complementary

Test function	Local Remote test
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
Connections - terminals	Auxiliary power supply terminal block 0.00...0.00 in ² (0.2...2.5 mm ²) flexible AWG 24...AWG 12 Auxiliary power supply terminal block 0.00...0.00 in ² (0.2...2.5 mm ²) rigid AWG 24...AWG 12 Auxiliary power supply terminal block 0.00...0.00 in ² (0.25...2.5 mm ²) flexible with ferrule AWG 24...AWG 12 Fault screw terminal 0.00...0.00 in ² (0.2...2.5 mm ²) flexible AWG 24...AWG 12 Fault screw terminal 0.00...0.01 in ² (0.2...4 mm ²) rigid AWG 24...AWG 12 Fault screw terminal 0.00...0.00 in ² (0.25...2.5 mm ²) flexible with ferrule AWG 24...AWG 12 Relay test and fault reset screw terminal 0.00...0.00 in ² (0.14...1 mm ²) flexible AWG 26...AWG 16 Relay test and fault reset screw terminal 0.00...0.00 in ² (0.14...1.5 mm ²) rigid AWG 26...AWG 16 Relay test and fault reset screw terminal 0.00...0.00 in ² (0.25...0.5 mm ²) flexible with ferrule AWG 26...AWG 16 Sensor screw terminal 0.00...0.00 in ² (0.14...1 mm ²) flexible AWG 26...AWG 16 Sensor screw terminal 0.00...0.00 in ² (0.14...1.5 mm ²) rigid AWG 26...AWG 16 Sensor screw terminal 0.00...0.00 in ² (0.25...0.5 mm ²) flexible with ferrule AWG 26...AWG 16 Voltage presence screw terminal 0.00...0.00 in ² (0.2...2.5 mm ²) flexible AWG 24...AWG 12 Voltage presence screw terminal 0.00...0.01 in ² (0.2...4 mm ²) rigid AWG 24...AWG 12 Voltage presence screw terminal 0.00...0.00 in ² (0.25...2.5 mm ²) flexible with ferrule 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 joules IK07 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 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	US10DE201078
Discount Schedule	0DE2
GTIN	3303430561927
Returnability	No
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.19 in (8.1 cm)
Package 1 Width	3.46 in (8.8 cm)
Package 1 Length	3.70 in (9.4 cm)
Package 1 Weight	10.76 oz (305.0 g)
Unit Type of Package 2	S03
Number of Units in Package 2	12
Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	9.14 lb(US) (4.147 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov
REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
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
----------	-----------