

# Product datasheet

Specifications



residual current monitoring relay.  
VigiPacT RH99M. 30mA to 30A.  
12/24 VAC 50/60Hz. 12/48VDC.  
DIN rail mounting

56190

**Price: 11,312.11 ZAR**

## 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 Sensitivity 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

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

<b>Connections - Terminals</b>	<p>Auxiliary power supply: terminal block cable(s) 0.2...2.5 mm<sup>2</sup> flexible AWG 24...AWG 12</p> <p>Auxiliary power supply: terminal block cable(s) 0.2...2.5 mm<sup>2</sup> rigid AWG 24...AWG 12</p> <p>Auxiliary power supply: terminal block cable(s) 0.25...2.5 mm<sup>2</sup> flexible with ferrule AWG 24...AWG 12</p> <p>Fault: screw terminal cable(s) 0.2...2.5 mm<sup>2</sup> flexible AWG 24...AWG 12</p> <p>Fault: screw terminal cable(s) 0.2...4 mm<sup>2</sup> rigid AWG 24...AWG 12</p> <p>Fault: screw terminal cable(s) 0.25...2.5 mm<sup>2</sup> flexible with ferrule AWG 24...AWG 12</p> <p>Relay test and fault reset: screw terminal cable(s) 0.14...1 mm<sup>2</sup> flexible AWG 26...AWG 16</p> <p>Relay test and fault reset: screw terminal cable(s) 0.14...1.5 mm<sup>2</sup> rigid AWG 26...AWG 16</p> <p>Relay test and fault reset: screw terminal cable(s) 0.25...0.5 mm<sup>2</sup> flexible with ferrule AWG 26...AWG 16</p> <p>Sensor: screw terminal cable(s) 0.14...1 mm<sup>2</sup> flexible AWG 26...AWG 16</p> <p>Sensor: screw terminal cable(s) 0.14...1.5 mm<sup>2</sup> rigid AWG 26...AWG 16</p> <p>Sensor: screw terminal cable(s) 0.25...0.5 mm<sup>2</sup> flexible with ferrule AWG 26...AWG 16</p> <p>Voltage presence: screw terminal cable(s) 0.2...2.5 mm<sup>2</sup> flexible AWG 24...AWG 12</p> <p>Voltage presence: screw terminal cable(s) 0.2...4 mm<sup>2</sup> rigid AWG 24...AWG 12</p> <p>Voltage presence: screw terminal cable(s) 0.25...2.5 mm<sup>2</sup> flexible with ferrule AWG 24...AWG 12</p>
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<b>Wire Stripping Length</b>	<p>Auxiliary power supply: 7 mm for top connection</p> <p>Fault: 8 mm for bottom connection</p> <p>Relay test and fault reset: 5 mm for bottom connection</p> <p>Sensor: 5 mm for top connection</p> <p>Voltage presence: 8 mm for bottom connection</p>
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<b>Tightening Torque</b>	<p>Auxiliary power supply: 0.6 N.m top</p> <p>Fault: 0.6 N.m bottom</p> <p>Relay test and fault reset: 0.25 N.m bottom</p> <p>Sensor: 0.25 N.m top</p> <p>Voltage presence: 0.6 N.m bottom</p>
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<b>9 Mm Pitches</b>	6
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<b>Standards</b>	<p>EN/IEC 60947-2 Annex M</p> <p>EN/IEC 60755</p> <p>UL 1053</p> <p>CAN/CSA C22.2 No. 144</p>
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<b>Width</b>	54 mm
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<b>Height</b>	81 mm
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<b>Depth</b>	74 mm
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<b>Net Weight</b>	0.3 kg
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<b>Ip Degree Of Protection</b>	<p>IP40 on front face: conforming to EN/IEC 60529</p> <p>IP30 on side parts: conforming to EN/IEC 60529</p> <p>IP20 on connection terminals: conforming to EN/IEC 60529</p>
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<b>Ik Degree Of Protection</b>	IK07 conforming to EN 50102
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<b>Mechanical Robustness</b>	<p>Fire resistance conforming to IEC 60695-2-1</p> <p>IK protection 2 joules: IK07 conforming to EN 50102</p> <p>Vibrations 13.2...100 Hz: 0.7 g</p> <p>Vibrations 2...13.2 Hz: +/- 1 mm</p>
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## Environment

<b>Overvoltage Category</b>	IV
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<b>Electrical Shock Protection Class</b>	Class II
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<b>Electromagnetic Compatibility</b>	<p>Conducted and radiated emissions: , B, conforming to CISPR 11</p> <p>Conducted radio-frequency immunity test: , 3, conforming to IEC 61000-4-6</p> <p>Electrostatic discharge immunity test: , 4, conforming to IEC 61000-4-2</p> <p>High-energy conducted susceptibility: , 4, conforming to IEC 61000-4-5</p> <p>Low-energy conducted susceptibility: , 4, conforming to IEC 61000-4-4</p> <p>Radiated susceptibility: , 3, conforming to IEC 61000-4-3</p>
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<b>Relative Humidity</b>	95 % at 55 °C
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<b>Pollution Degree</b>	3 conforming to IEC 60664-1
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Ambient Air Temperature For Operation	-35...70 °C
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Ambient Air Temperature For Storage	-55...85 °C
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## Packing Units

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

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Warranty	18 months
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## 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<sub>2</sub> 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](#)