

# Product datasheet

Specifications



residual current monitoring relay.  
VigiPacT RH99M. 30mA to 30A.  
220/240 VAC 50/60Hz. DIN rail  
mounting

56193

**Price: 5,887.65 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<br>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<br>VigiPacT A earth leakage current sensor<br>VigiPacT L earth leakage current sensor |
| [Ithe] Conventional Enclosed Thermal Current       | 8 A   |
| Minimum Load                                       | 10 mA at 12 V   |
| [Us] Rated Supply Voltage                          | 220...240 V AC 50/60 Hz 55...110 %  |
| Power Consumption In Va                            | 4 VA  |
| Monitored Distribution System                      | 1000 V - AC at 50/60 Hz (maximum)<br>1000 V - AC at 400 Hz (maximum)  |
| Earthing System                                    | TT<br>TN-S  |
| [Uimp] Rated Impulse Withstand Voltage             | 8 kV  |

## Complementary

|                         |   |
|-------------------------|---|
| Test Function           | Local<br>Remote test  |
| Monitoring              | Electronics (continuous)<br>Power supply (continuous)<br>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> |
|--------------------------------|--|

|                              |  |
|------------------------------|--|
| <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> |
|------------------------------|--|

|                          |  |
|--------------------------|--|
| <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> |
|--------------------------|--|

|                     |   |
|---------------------|---|
| <b>9 Mm Pitches</b> | 6 |
|---------------------|---|

|                  |   |
|------------------|---|
| <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> |
|------------------|---|

|              |       |
|--------------|-------|
| <b>Width</b> | 54 mm |
|--------------|-------|

|               |       |
|---------------|-------|
| <b>Height</b> | 81 mm |
|---------------|-------|

|              |       |
|--------------|-------|
| <b>Depth</b> | 74 mm |
|--------------|-------|

|                   |        |
|-------------------|--------|
| <b>Net Weight</b> | 0.3 kg |
|-------------------|--------|

|                                |   |
|--------------------------------|---|
| <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> |
|--------------------------------|---|

|                                |                             |
|--------------------------------|-----------------------------|
| <b>Ik Degree Of Protection</b> | IK07 conforming to EN 50102 |
|--------------------------------|-----------------------------|

|                              |  |
|------------------------------|--|
| <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> |
|------------------------------|--|

## Environment

|                             |    |
|-----------------------------|----|
| <b>Overvoltage Category</b> | IV |
|-----------------------------|----|

|  |          |
|--|----------|
| <b>Electrical Shock Protection Class</b> | Class II |
|--|----------|

|                                      |  |
|--------------------------------------|--|
| <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> |
|--------------------------------------|--|

|                          |               |
|--------------------------|---------------|
| <b>Relative Humidity</b> | 95 % at 55 °C |
|--------------------------|---------------|

|                         |                             |
|-------------------------|-----------------------------|
| <b>Pollution Degree</b> | 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 | 7.8 cm |
|------------------|--------|

---

|                 |        |
|-----------------|--------|
| Package 1 Width | 8.6 cm |
|-----------------|--------|

---

|                  |        |
|------------------|--------|
| Package 1 Length | 9.2 cm |
|------------------|--------|

---

|                  |         |
|------------------|---------|
| Package 1 Weight | 276.0 g |
|------------------|---------|

---

|                        |     |
|------------------------|-----|
| Unit Type Of Package 2 | S03 |
|------------------------|-----|

---

|                              |    |
|------------------------------|----|
| Number Of Units In Package 2 | 36 |
|------------------------------|----|

---

|                  |         |
|------------------|---------|
| Package 2 Height | 30.0 cm |
|------------------|---------|

---

|                 |         |
|-----------------|---------|
| Package 2 Width | 30.0 cm |
|-----------------|---------|

---

|                  |         |
|------------------|---------|
| Package 2 Length | 40.0 cm |
|------------------|---------|

---

|                  |           |
|------------------|-----------|
| Package 2 Weight | 10.423 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<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](#)