

# Product datasheet

Specifications



Residual current protection relay,  
VigiPacT RH197M, 30mA-30A,  
110/130VAC 50/60Hz, alarm 50% or  
100%, DIN rail mounting

56516

## Main

|  |   |
|--|---|
| Range  | VigiPacT  |
| Device Short Name                                  | RH197M  |
| 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 Sensitivity Adjustment Type | Adjustable 19 settings  |
| Earth-Leakage Sensitivity                          | 0.03...30 A   |
| Earth-Leakage Time Delay                           | Instantaneous for 0.03 A<br>Adjustable 7 settings 0...4.5 s for 0.03...30 A   |
| Alarm Threshold                                    | 100 %<br>50 %   |
| 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                          | 110...130 V AC 50/60 Hz 70...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                                    | IT<br>TT<br>TN-S  |
| [Uimp] Rated Impulse Withstand Voltage             | 8 kV  |
| Reset  | Manual reset<br>Automatic reset   |

## Complementary

|                             |   |
|-----------------------------|---|
| Test Function               | Remote test<br>Local  |
| Monitoring                  | Electronics (watchdog)<br>Power supply (continuous)<br>Relay/sensor link (continuous) |
| Signal Contacts Composition | 1 NO  |

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

|                                   |   |
|-----------------------------------|---|
| Type Of Measurement               | Earth fault current internal measurement, range: 80...100 %   |
| Refresh Time                      | 0.5 s   |
| Tamperproof Of Settings           | Protected by sealable cover   |
| Connections - Terminals           | Auxiliary power supply: terminal block cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12<br>Auxiliary power supply: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12<br>Auxiliary power supply: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12<br>Fault: terminal block cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12<br>Fault: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12<br>Fault: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12<br>Relay test and fault reset: terminal block cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12<br>Relay test and fault reset: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12<br>Relay test and fault reset: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12<br>Sensor: terminal block cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12<br>Sensor: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12<br>Sensor: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12<br>Voltage presence: terminal block cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12<br>Voltage presence: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12<br>Voltage presence: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12 |
| Wire Stripping Length             | Auxiliary power supply: 7 mm<br>Fault: 7 mm<br>Relay test and fault reset: 7 mm<br>Sensor: 7 mm<br>Voltage presence: 7 mm   |
| Tightening Torque                 | Auxiliary power supply: 0.6 N.m<br>Fault: 0.6 N.m<br>Relay test and fault reset: 0.6 N.m<br>Sensor: 0.6 N.m<br>Voltage presence: 0.6 N.m  |
| 9 Mm Pitches                      | 8   |
| Standards                         | EN/IEC 60947-2 Annex M<br>EN/IEC 60755<br>UL 1053<br>CAN/CSA C22.2 No. 144  |
| Width                             | 71.2 mm   |
| Height                            | 98.7 mm   |
| Depth                             | 65.8 mm   |
| Net Weight                        | 0.3 kg  |
| Ip Degree Of Protection           | IP40 on front face: conforming to EN/IEC 60529<br>IP30 on side parts: conforming to EN/IEC 60529<br>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<br>IK protection 2 joules: IK07 conforming to EN 50102<br>Vibrations 13.2...100 Hz: 0.7 g<br>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<br>Conducted radio-frequency immunity test: , 3, conforming to IEC 61000-4-6<br>Electrostatic discharge immunity test: , 4, conforming to IEC 61000-4-2<br>High-energy conducted susceptibility: , 4, conforming to IEC 61000-4-5<br>Low-energy conducted susceptibility: , 4, conforming to IEC 61000-4-4<br>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 | -25...55 °C                 |
| Ambient Air Temperature For Storage   | -40...85 °C                 |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type Of Package 1       | PCE      |
| Number Of Units In Package 1 | 1        |
| Package 1 Height             | 9.3 cm   |
| Package 1 Width              | 8.0 cm   |
| Package 1 Length             | 8.5 cm   |
| Package 1 Weight             | 333.0 g  |
| Unit Type Of Package 2       | S03      |
| Number Of Units In Package 2 | 24       |
| Package 2 Height             | 30.0 cm  |
| Package 2 Width              | 30.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 8.479 kg |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

## Sustainability

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Transparency

## Well-being performance

|                              |   |
|------------------------------|---|
| ✓ Toxic Heavy Metal Free     |   |
| ✓ Mercury Free               |   |
| ✓ Rohs Exemption Information | Yes   |
| Eu Rohs Directive            | Compliant<br><a href="#">EU RoHS Declaration</a>  |
| China Rohs Regulation        | <a href="#">China RoHS declaration</a><br>Pro-active China RoHS declaration (out of China RoHS legal scope)                 |
| Environmental Disclosure     | <a href="#">Product Environmental Profile</a>   |
| Weee                         | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile          | <a href="#">End of Life Information</a>   |