


# Product data sheet

Specifications



## Residual current protection relay, VigiPacT RH10M, 500mA, 12/24VAC 50/60Hz, 12/48VDC, DIN rail mounting

56106

 **Discontinued on:** Jan 8, 2021

 **Discontinued**

### Main

Range	VigiPacT
Device Short Name	RH10M
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	None
Residual Earth-Leakage Sensitivity Adjustment Type	Fixed
Earth-Leakage Sensitivity	0.5 A
Earth-Leakage Time Delay	Instantaneous
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 IT
[Uimp] Rated Impulse Withstand Voltage	8 kV
Reset	Manual reset

### Complementary

Test Function	Local Remote test
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

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 cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12 Auxiliary power supply: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12 Auxiliary power supply: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12 Fault: screw terminal cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12 Fault: screw terminal cable(s) 0.2...4 mm² rigid AWG 24...AWG 12 Fault: screw terminal cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12 Relay test and fault reset: screw terminal cable(s) 0.14...1 mm² flexible AWG 26...AWG 16 Relay test and fault reset: screw terminal cable(s) 0.14...1.5 mm² rigid AWG 26...AWG 16 Relay test and fault reset: screw terminal cable(s) 0.25...0.5 mm² flexible AWG 26...AWG 16 Sensor: screw terminal cable(s) 0.14...1 mm² flexible AWG 26...AWG 16 Sensor: screw terminal cable(s) 0.14...1.5 mm² rigid AWG 26...AWG 16 Sensor: screw terminal cable(s) 0.25...0.5 mm² flexible AWG 26...AWG 16 Voltage presence: screw terminal cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12 Voltage presence: screw terminal cable(s) 0.2...4 mm² rigid AWG 24...AWG 12 Voltage presence: screw terminal cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12
Wire Stripping Length	Auxiliary power supply: 7 mm for top connection Fault: 8 mm for bottom connection Relay test and fault reset: 5 mm for bottom connection Sensor: 5 mm for top connection Voltage presence: 8 mm for bottom connection
Tightening Torque	Auxiliary power supply: 0.6 N.m top Fault: 0.6 N.m bottom Relay test and fault reset: 0.25 N.m bottom Sensor: 0.25 N.m top Voltage presence: 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	54 mm
Height	81 mm
Depth	74 mm
Net Weight	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 conforming to IEC 60695-2-1 IK protection 2 joules: IK07 conforming to 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 emissions: , B, conforming to CISPR 11 Conducted radio-frequency immunity test: , 3, conforming to IEC 61000-4-6 Electrostatic discharge immunity test: , 4, conforming to IEC 61000-4-2 High-energy conducted susceptibility: , 4, conforming to IEC 61000-4-5 Low-energy conducted susceptibility: , 4, conforming to IEC 61000-4-4 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	-35...70 °C

Ambient Air Temperature For Storage	-55...85 °C
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## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

## Contractual warranty

Warranty	18 months
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## Sustainability

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RoHS/REACH

## Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information [Yes](#)

✓ Pvc Free

## Certifications & Standards

**Eu Rohs Directive** Compliant  
[EU RoHS Declaration](#)

**China Rohs Regulation** [China RoHS declaration](#)  
Product out of China RoHS scope. Substance declaration for your information

**Weee** The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins