

Product data sheet

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 Adjustable 7 settings 0...4.5 s for 0.03...30 A
Alarm Threshold	100 % 50 %
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	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) 1000 V - AC at 400 Hz (maximum)
Earthing System	IT TT TN-S
[Uimp] Rated Impulse Withstand Voltage	8 kV
Reset	Manual reset Automatic reset

Complementary

Test Function	Remote test Local
Monitoring	Electronics (watchdog) Power supply (continuous) 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 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: terminal block cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12 Fault: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12 Fault: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12 Relay test and fault reset: terminal block cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12 Relay test and fault reset: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12 Relay test and fault reset: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12 Sensor: terminal block cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12 Sensor: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12 Sensor: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12 Voltage presence: terminal block cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12 Voltage presence: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12 Voltage presence: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12
Wire Stripping Length	Auxiliary power supply: 7 mm Fault: 7 mm Relay test and fault reset: 7 mm Sensor: 7 mm Voltage presence: 7 mm
Tightening Torque	Auxiliary power supply: 0.6 N.m Fault: 0.6 N.m Relay test and fault reset: 0.6 N.m Sensor: 0.6 N.m Voltage presence: 0.6 N.m
9 Mm Pitches	8
Standards	EN/IEC 60947-2 Annex M EN/IEC 60755 UL 1053 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 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	-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
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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-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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[Guide to assess a product's sustainability >](#)



Transparency

Well-being performance

✓ Toxic Heavy Metal Free	
✓ Mercury Free	
✓ Rohs Exemption Information	Yes
Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
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