

# Product data sheet

Specifications



Residual current protection relay,  
VigiPacT RH197M, 30mA-30A,  
380/415VAC 50/60Hz, alarm 50% or  
100%, DIN rail mounting

56518

## 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	380...415 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	TT TN-S IT
[Uimp] Rated Impulse Withstand Voltage	8 kV
Reset	Manual reset Automatic reset

## Complementary

Test Function	Local Remote test
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	9.5 cm
Package 1 Width	8.5 cm
Package 1 Length	8.0 cm
Package 1 Weight	350.0 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	12
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	4.687 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-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.

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Transparency

## Well-being performance

✓ Toxic Heavy Metal Free

✓ Mercury Free

✓ Rohs Exemption Information [Yes](#)

Eu Rohs Directive	Compliant
	<a href="#">EU RoHS Declaration</a>

China Rohs Regulation	<a href="#">China RoHS declaration</a>
	Pro-active China RoHS declaration (out of China RoHS legal scope)

Environmental Disclosure	<a href="#">Product Environmental Profile</a>
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Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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Circularity Profile	<a href="#">End of Life Information</a>
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