

Product datasheet

Specifications



Residual current protection relay,
VigiPacT RH21M, 30mA or
300mA, 440/525VAC 50/60Hz,
DIN rail mounting

56165

! Discontinued

! Discontinued on: Apr 10, 2022

Main

Range	VigiPacT
Device Short Name	RH21M
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 2 settings
Earth-Leakage Sensitivity	0.03 A 0.3 A
Earth-Leakage Time Delay	Instantaneous for 0.03 A Instantaneous for 0.3 A Fixed 0.06 s for 0.3 A
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	440...525 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

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
Connections - Terminals	<p>Auxiliary power supply: terminal block cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12</p> <p>Auxiliary power supply: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12</p> <p>Auxiliary power supply: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12</p> <p>Fault: screw terminal cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12</p> <p>Fault: screw terminal cable(s) 0.2...4 mm² rigid AWG 24...AWG 12</p> <p>Fault: screw terminal cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12</p> <p>Relay test and fault reset: screw terminal cable(s) 0.14...1 mm² flexible AWG 26...AWG 16</p> <p>Relay test and fault reset: screw terminal cable(s) 0.14...1.5 mm² rigid AWG 26...AWG 16</p> <p>Relay test and fault reset: screw terminal cable(s) 0.25...0.5 mm² flexible AWG 26...AWG 16</p> <p>Sensor: screw terminal cable(s) 0.14...1 mm² flexible AWG 26...AWG 16</p> <p>Sensor: screw terminal cable(s) 0.14...1.5 mm² rigid AWG 26...AWG 16</p> <p>Sensor: screw terminal cable(s) 0.25...0.5 mm² flexible AWG 26...AWG 16</p> <p>Voltage presence: screw terminal cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12</p> <p>Voltage presence: screw terminal cable(s) 0.2...4 mm² rigid AWG 24...AWG 12</p> <p>Voltage presence: screw terminal cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12</p>
Wire Stripping Length	<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>
Tightening Torque	<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>
9 Mm Pitches	6
Standards	<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>
Width	54 mm
Height	81 mm
Depth	74 mm
Net Weight	0.3 kg
Ip Degree Of Protection	<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>
Ik Degree Of Protection	IK07 conforming to EN 50102
Mechanical Robustness	<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	
Overvoltage Category	IV
Electrical Shock Protection Class	Class II
Electromagnetic Compatibility	<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>
Relative Humidity	95 % at 55 °C
Pollution Degree	3 conforming to IEC 60664-1

Ambient Air Temperature For Operation	-35...70 °C
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Ambient Air Temperature For Storage	-55...85 °C
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Packing Units

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

[Learn more about Green Premium >](#)

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



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