Product datasheet

Specifications

Earth-leakage relay RH21P - 300 mA - 0.06 s - 48 V

56261

Discontinued on: 27 Aug 2020

Discontinued

Main

Range	Vigirex
Device short name	RH21P
Product or component type	Residual current protection relay
Relay application	Protection relay
Mounting support	Front panel
Earth-leakage protection class	Type A
Type of setting	Selector
Residual earth-leakage sensitity 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	Vigirex TOA earth leakage current sensor Vigirex A earth leakage current sensor Vigirex L earth leakage current sensor
[Ithe] conventional enclosed thermal current	8 A
Minimum load	10 mA at 12 V
[Us] rated supply voltage	48 V AC 50/60 Hz 55...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	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
Standards	EN/IEC 60947-2 Annex M EN/IEC 60755 UL 1053 CAN/CSA C22.2 No. 144
Width	72 mm
Height	72 mm
Depth	78 mm
Cut-out dimensions	68 x 68 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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Use Longer

Lifetime extension

Repair	No