

Product datasheet

Specifications



Residual current protection relay, VigiPacT RHB, B type, 30mA-3A, 100-250VAC/DC, DIN rail mounting

LV481010

EAN Code: 3606489913007

Main

Range	VigiPacT
Device short name	RHB
Product or component type	Residual current protection relay
Relay application	Protection relay
Mounting support	DIN rail
Earth-leakage protection class	Type B
Type of setting	Keypad
Residual earth-leakage sensitivity adjustment type	Adjustable
Earth-leakage sensitivity	0.03...0.1 A, adjustable in step of 0.001 A 0.1...1 A, adjustable in step of 0.01 A 1...3 A, adjustable in step of 0.1 A
Earth-leakage time delay	Instantaneous for 0.03 A Adjustable 0...1 s for 0.03...3 A adjustable in step of 10 ms Adjustable 1...10 s for 0.03...3 A adjustable in step of 100 ms
Threshold setting	0.015...1 A adjustable in step of 0.001 A alarm 1...3 A adjustable in step of 0.1 A alarm
Current sensors compatibility	VigiPacT TB35 earth leakage current sensor VigiPacT TB60 earth leakage current sensor VigiPacT TB120 earth leakage current sensor VigiPacT TB210 earth leakage current sensor VigiPacT TB35P earth leakage current sensor VigiPacT TB60P earth leakage current sensor
[I _{th} e] conventional enclosed thermal current	5 A
Minimum load	1 mA at 10 V
[U _s] rated supply voltage	100...250 V AC 50...400 Hz 70...120 % 100...250 V DC
Power consumption in VA	6.5 VA
Monitored distribution system	800 V - AC at 0...2000 Hz (maximum)
Earthing system	TT TN-S
[U _{imp}] rated impulse withstand voltage	4 kV
Reset	Remote reset

Complementary

Test function	Remote test Local
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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

Monitoring	Electronics (watchdog) Power supply (continuous) Relay/sensor link (continuous)
Signal contacts composition	1 NO/NC alarm fail-safe 1 NO pre-alarm fail-safe
Type of measurement	Earth fault current internal measurement, range: 80...100 %
Tamperproof of settings	Protected by access code
Connections - terminals	Terminal block 1 cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12 Terminal block 1 cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12 Terminal block 2 cable(s) 0.2...1.5 mm² flexible AWG 24...AWG 12 Terminal block 2 cable(s) 0.2...1.5 mm² rigid AWG 24...AWG 12
Wire stripping length	8 mm 9 mm
Tightening torque	0.5...0.6 N.m
9 mm pitches	4
Standards	EN/IEC 60947-2 Annex M EN/IEC 60755
Width	36 mm
Height	90 mm
Depth	70.5 mm
Net weight	0.15 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

Environmental characteristic	Exposure to damp heat not in service conforming to IEC 60068-2-30 Exposure to damp heat in service conforming to IEC 60068-2-56 Salt mist conforming to IEC 60068-2-52
Overvoltage category	III
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	2 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	5.300 cm

Package 1 Width	12.000 cm
Package 1 Length	16.000 cm
Package 1 Weight	242.000 g
Unit Type of Package 2	S04
Number of Units in Package 2	40
Package 2 Height	30.000 cm
Package 2 Width	40.000 cm
Package 2 Length	60.000 cm
Package 2 Weight	10.380 kg

Logistical informations

Country of origin	DE
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Contractual warranty

Warranty (in months)	18
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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