



Main

Range	Vigirex
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	TOA earth leakage current sensor A earth leakage current sensor L earth leakage current sensor
[Ithe] conventional enclosed thermal current	8 A
Minimum load	10 mA at 12 V
[Us] rated supply voltage	220...240 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
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
Type of measurement	Earth fault current internal measurement, range: 80...100 %
Refresh time	0.5 s
Tamperproof of settings	Protected by sealable cover

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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: terminal block cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12</p> <p>Fault: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12</p> <p>Fault: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12</p> <p>Relay test and fault reset: terminal block cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12</p> <p>Relay test and fault reset: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12</p> <p>Relay test and fault reset: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12</p> <p>Sensor: terminal block cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12</p> <p>Sensor: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12</p> <p>Sensor: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12</p> <p>Voltage presence: terminal block cable(s) 0.2...2.5 mm² flexible AWG 24...AWG 12</p> <p>Voltage presence: terminal block cable(s) 0.2...2.5 mm² rigid AWG 24...AWG 12</p> <p>Voltage presence: terminal block cable(s) 0.25...2.5 mm² flexible AWG 24...AWG 12</p>
Wire stripping length	<p>Auxiliary power supply: 7 mm</p> <p>Fault: 7 mm</p> <p>Relay test and fault reset: 7 mm</p> <p>Sensor: 7 mm</p> <p>Voltage presence: 7 mm</p>
Tightening torque	<p>Auxiliary power supply: 0.6 N.m</p> <p>Fault: 0.6 N.m</p> <p>Relay test and fault reset: 0.6 N.m</p> <p>Sensor: 0.6 N.m</p> <p>Voltage presence: 0.6 N.m</p>
9 mm pitches	8
Width	71.2 mm
Height	98.7 mm
Depth	65.8 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	-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 Weight	322 g
Package 1 Height	9.5 cm
Package 1 width	8.5 cm
Package 1 Length	8 cm

Unit Type of Package 2	S03
Number of Units in Package 2	24
Package 2 Weight	8.16 kg
Package 2 Height	30 cm
Package 2 width	30 cm
Package 2 Length	40 cm

Offer Sustainability

EU RoHS Directive	Compliant EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months
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