

Earth-leakage relay RH99M with manual reset - 0.03..30 A - 0..4.5 s - 240 V

56173

Main

IVIAIII		
Range	VigiPacT	
Device short name	RH99M	
Product or component type	Residual current protection relay	
Relay application	Protection relay	
Mounting support	DIN rail	
Earth-leakage protection class	Туре А	
Type of setting	Selector	
Residual earth-leakage sensitity adjustment type	Adjustable 9 settings	
Earth-leakage sensitivity	0.0330 A	
Earth-leakage time delay	Instantaneous for 0.03 A Adjustable 9 settings 04.5 s for 0.0330 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	220240 V AC 50/60 Hz 55110 %	
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	TN-S TT IT	
[Uimp] rated impulse withstand voltage	8 kV	
Reset	Manual reset	

Complementary

Test function	Remote test Local	
Monitoring	Electronics (continuous) Power supply (continuous) Relay/sensor link (continuous)	
Type of measurement	Earth fault current internal measurement, range: 80100 %	
Tamperproof of settings	Protected by sealable cover	

Connections - terminals	Auxiliary power supply: terminal block cable(s) 0.22.5 mm² flexible AWG 24AWG 12	
	Auxiliary power supply: terminal block cable(s) 0.22.5 mm² rigid AWG 24AWG 12 Auxiliary power supply: terminal block cable(s) 0.252.5 mm² flexible AWG 24AWG 12	
	Fault: screw terminal cable(s) 0.22.5 mm² flexible AWG 24AWG 12 Fault: screw terminal cable(s) 0.24 mm² rigid AWG 24AWG 12	
	Fault: screw terminal cable(s) 0.252.5 mm² flexible AWG 24AWG 12	
	Relay test and fault reset: screw terminal cable(s) 0.141 mm² flexible AWG 26AWG 16	
	Relay test and fault reset: screw terminal cable(s) 0.141.5 mm² rigid AWG 26AWG 16	
	Relay test and fault reset: screw terminal cable(s) 0.250.5 mm² flexible AWG 26AWG 16	
	Sensor: screw terminal cable(s) 0.141 mm² flexible AWG 26AWG 16	
	Sensor: screw terminal cable(s) 0.141.5 mm² rigid AWG 26AWG 16	
	Sensor: screw terminal cable(s) 0.250.5 mm² flexible AWG 26AWG 16	
	Voltage presence: screw terminal cable(s) 0.22.5 mm² flexible AWG 24AWG 12	
	Voltage presence: screw terminal cable(s) 0.24 mm² rigid AWG 24AWG 12 Voltage presence: screw terminal cable(s) 0.252.5 mm² flexible AWG 24AWG 12	
Wire stripping length	Auxiliary power supply: 7 mm for top connection	
	Fault: 8 mm for bottom connection	
	Relay test and fault reset: 5 mm for bottom connection Sensor: 5 mm for top connection	
	Voltage presence: 8 mm for bottom connection	
Tightening torque	Auxiliary power supply: 0.6 N.m top	
	Fault: 0.6 N.m bottom	
	Relay test and fault reset: 0.25 N.m bottom	
	Sensor: 0.25 N.m top	
	Voltage presence: 0.6 N.m bottom	
9 mm pitches	6	
Standards	EN/IEC 60947-2 Annex M	
	EN/IEC 60755	
	UL 1053 CAN/CSA C22.2 No. 144	
Width	54 mm	
Height	81 mm	
Depth	74 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 13.2100 Hz: 0.7 g Vibrations 213.2 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	-3570 °C	

Ambient air temperature for -55...85 °C storage

Packing Units

9	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.5 cm
Package 1 Width	9.0 cm
Package 1 Length	7.6 cm
Package 1 Weight	276.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	36
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	10.424 kg

Contractual warranty

Warranty 12 months



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 >

∇ Environmental footprint	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	66
Environmental Disclosure	Product Environmental Profile

Use Better

Recycled metal content at CR level	0
EU RoHS Directive	Compliant with Exemptions
REACh Regulation	REACh Declaration
Halogen content performance	Product contains halogen above thresholds
PVC free	Yes

Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins