Earth-leakage relay RH10P - 30 mA - 415 V

56240

Discontinued on: 01 November 2020

① Discontinued

Main

Range	VigiPacT
Device short name	RH10P
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	None
Residual earth-leakage sensitity adjustment type	Fixed
Earth-leakage sensitivity	0.03 A
Earth-leakage time delay	Instantaneous
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	380415 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 IT TT
[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 Tamperproof of settings Profected by seelable cover Connections - terminals Ausliery power supply: terminal block cable(s) 0.2 2.5 mm² flacible AVIG 24 AVIG 12 Ausliery power supply: terminal block cable(s) 0.2 2.5 mm² flacible AVIG 24 AVIG 12 Flaut: terminal block cable(s) 0.2 2.5 mm² flacible AVIG 24 AVIG 12 Flaut: terminal block cable(s) 0.2 2.5 mm² flacible AVIG 24 AVIG 12 Flaut: terminal block cable(s) 0.2 2.5 mm² flacible AVIG 24 AVIG 12 Flaut: terminal block cable(s) 0.2 2.5 mm² flacible AVIG 24 AVIG 12 Flaut: terminal block cable(s) 0.2 2.5 mm² flacible AVIG 24 AVIG 12 Flaut: terminal block cable(s) 0.2 2.5 mm² flacible AVIG 24 AVIG 12 Flaut: terminal block cable(s) 0.2 2.5 mm² flacible AVIG 24 AVIG 12 Flaut: terminal block cable(s) 0.2 2.5 mm² flaut AVIG 24 AVIG 12 Flaut: terminal block cable(s) 0.2 2.5 mm² flaut AVIG 24 AVIG 12 Flaut: terminal block cable(s) 0.2 2.5 mm² flaut AVIG 24 AVIG 12 Flaut: terminal block cable(s) 0.2 2.5 mm² flaut: AVIG 24 AVIG 12 Flaut: terminal block cable(s) 0.2 2.5 mm² flaut: AVIG 24 AVIG 12 Flaut: terminal block cable(s) 0.2 2.5 mm² flaut: AVIG 24 AVIG 12 Flaut: terminal block cable(s) 0.2 2.5 mm² flaut: AVIG 24 AVIG 12 Flaut: terminal block cable(s) 0.2 2.5 mm² flaut: AVIG 24 AVIG 12 Flaut: terminal block cable(s) 0.2 2.5 mm² flaut: AVIG 24 AVIG 12 Flaut: terminal block cable(s) 0.2 2.5 mm² flaut: AVIG 25 AVIG 12 Flaut: AVIG 24 .		
Auxiliary power supply; ferminal block cable(s) 0.22.5 mm² flexible AWG 21AWG 12 Auxiliary power supply; ferminal block cable(s) 0.22.5 mm² flexible AWG 24AWG 12 Auxiliary power supply; ferminal block cable(s) 0.22.5 mm² flexible AWG 24AWG 12 Fault terminal block cable(s) 0.22 mm² flexible AWG 24AWG 12 Fault	Type of measurement	Earth fault current internal measurement, range: 80100 %
Auxiliary power supply: terminal block cable(s) 0.22.5 mm² flexib AVG 24AVG 12 Fault: terminal block cable(s) 0.22.5 mm² flexib AVG 24AVG 12 Fault: terminal block cable(s) 0.22.5 mm² flexib AVG 24AVG 12 Fault: terminal block cable(s) 0.22.5 mm² flexib AVG 24AVG 12 Fault: terminal block cable(s) 0.22.5 mm² flexib AVG 24AVG 12 Falley test and fault reset terminal block cable(s) 0.22.5 mm² flexib AVG 24AVG 12 Falley test and fault reset terminal block cable(s) 0.22.5 mm² flexib AVG 24AVG 12 Falley test and fault reset terminal block cable(s) 0.22.5 mm² flexib AVG 24AVG 12 Falley test and fault reset terminal block cable(s) 0.22.5 mm² flexib AVG 24AVG 12 Falley test and fault reset terminal block cable(s) 0.22.5 mm² flexib AVG 24AVG 12 Falley test and fault reset terminal block cable(s) 0.22.5 mm² flexib AVG 24AVG 12 Falley test and fault reset terminal block cable(s) 0.22.5 mm² flexib AVG 24AVG 12 Falley presence: terminal block cable(s) 0.22.5 mm² flexib AVG 24AVG 12 Falley presence: terminal block cable(s) 0.22.5 mm² flexib AVG 24AVG 12 Falley presence: terminal block cable(s) 0.22.5 mm² flexib AVG 24AVG 12 Falley presence: terminal block cable(s) 0.22.5 mm² flexib AVG 24AVG 12 Falley presence: terminal block cable(s) 0.22.5 mm² flexib AVG 24AVG 12 Falley presence: terminal block cable(s) 0.22.5 mm² flexib AVG 24AVG 12 Falley presence: terminal block cable(s) 0.22.5 mm² flexib AVG 24AVG 12 Falley presence: terminal block cable(s) 0.22.5 mm² flexib AVG 24AVG 12 Falley presence: terminal block cable(s) 0.22.5 mm² flexib AVG 24AVG 12 Falley presence: terminal block cable(s) 0.22.5 mm² flexib AVG 24AVG 12 Falley presence: terminal block cable(s) 0.22.5 mm² flexib AVG 24AVG 12 Falley presence: terminal block cable(s) 0.22.5 mm² flexib AVG 24AVG 12 Falley presence: terminal block cable(s) 0.22.5 mm² flexib AVG 24AVG 12 Falley presence: terminal block cable(s) 0.22.5 m	Tamperproof of settings	Protected by sealable cover
Fault. 7 mm Seley test and fault reset: 7 mm Sensor: 7 mm Voltage presence: 7 mm Sensor: 7 mm Voltage presence: 7 mm Sensor: 6 Nm Reley test and fault reset: 0.6 Nm Reley test and fault reset: 0.6 Nm Sensor: 0.6 Nm Voltage presence: 0.6 Nm Voltag	Connections - terminals	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: terminal block cable(s) 0.22.5 mm² flexible AWG 24AWG 12 Fault: terminal block cable(s) 0.22.5 mm² rigid AWG 24AWG 12 Fault: terminal block cable(s) 0.252.5 mm² flexible AWG 24AWG 12 Relay test and fault reset: terminal block cable(s) 0.22.5 mm² rigid AWG 24AWG 12 Relay test and fault reset: terminal block cable(s) 0.22.5 mm² rigid AWG 24AWG 12 Relay test and fault reset: terminal block cable(s) 0.252.5 mm² flexible AWG 24AWG 12 Sensor: terminal block cable(s) 0.22.5 mm² rigid AWG 24AWG 12 Sensor: terminal block cable(s) 0.22.5 mm² flexible AWG 24AWG 12 Sensor: terminal block cable(s) 0.252.5 mm² flexible AWG 24AWG 12 Voltage presence: terminal block cable(s) 0.22.5 mm² flexible AWG 24AWG 12 Voltage presence: terminal block cable(s) 0.22.5 mm² rigid AWG 24AWG 12
Fault: 0.6 k m. Relay test and fault reset: 0.6 N m. Sensor: 0.6 N m. Voltage presence: 0.6 N.m. 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 ENIEC 60529 IP30 on side parts: conforming to ENIEC 60529 IK degree of protection IK07 conforming to IE C 60695-2-1 IK protection 2 joules: IK07 conforming to IE C 60695-2-1 IK protection 2 joules: IK07 conforming to EN 50102 Vibrations 13.2100 Hz: 0.7 g Vibrations 13.2100 Hz: 0.7 g Vibrations 213.2 Hz: +/- 1 mm Environment Overvoltage category IV Electrical shock protection Class II class II Class II Conducted and radiated emissions: B. conforming to IEC 61000-4-6 Electrostact discharge immunity test: 3, conforming to IEC 61000-4-6 High-energy conducted susceptibility: -4, conforming to IEC 61000-4-6 High-energy conducted susceptibility: -3, conforming to IEC 61000-4-1 Radiated susceptibility: -3, conforming to IEC 61000-4-2 Radiated susceptibility: -4, conforming to IEC 61000-4-3 Radiated susce	Wire stripping length	Fault: 7 mm Relay test and fault reset: 7 mm Sensor: 7 mm
Depth 78 mm Cut-out dimensions 68 x 68 mm Net weight 0.3 kg IP40 on front face: conforming to EN/IEC 60529 IP30 on side parts: conforming to EN/IEC 60529 IP30 on side parts: conforming to EN/IEC 60529 IP30 on some cition terminals: conforming to EN/IEC 60529 IP30 on some cition terminals: conforming to EN/IEC 60529 IP30 on connection terminals: IR30 on conforming to EN/IEC 60529 IP30 on connection terminals: IR30 on conforming to EN/IEC 60529 IP30 on connection terminals: IR30 on conforming to EN/IEC 60529 IP30 on connection terminals: IR30 on conforming to EN/IEC 60529 IP30 on connection terminals: IR30 on conforming to EN/IEC 60529 IP30 on connection terminals: IR30 on conforming to EN/IEC 60529 IP30 on connection terminals: IR30 on connection ter	Tightening torque	Fault: 0.6 N.m Relay test and fault reset: 0.6 N.m Sensor: 0.6 N.m
Depth 78 mm Cut-out dimensions 68 x 88 mm Net weight 0.3 kg IP degree of protection P40 on front face: conforming to EN/IEC 60529 IP30 on side parts: conforming to EN/IEC 60529 IP30 on side parts: conforming to EN/IEC 60529 IR40 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 19.2100 Hz: 0.7 g Vibrations 19.2100 Hz: 0.7 g Vibrations 213.2 Hz: +/- 1 mm Environment Overvoltage category IV Electrical shock protection class Electromagnetic compatibility Conducted and radiated emissions: B. conforming to CISPR 11 Conducted and radiated emissions: B. conforming to IEC 81000-4-8 Electrostated discharge immunity test: A, conforming to IEC 61000-4-2 High-energy conducted susceptibility - 4, conforming to IEC 61000-4-5 Love-energy conducted susceptibility - 4, conforming to IEC 61000-4-5 Relative humidity 95 % at 55 °C Pollution degree 3 conforming to IEC 60664-1 Ambient air temperature for operation -5585 °C Offer Sustainability Sustainable offer status Green Premium product EU RoHS Directive Compliant EU RoHS Declaration	Width	72 mm
Cut-out dimensions	Height	72 mm
Net weight 0.3 kg IP40 on front face: conforming to EN/IEC 80529 IP30 on side parts: conforming to EN/IEC 80529 IP30 on side parts: conforming to EN/IEC 80529 IP30 on connection terminals: conforming to IEC 80595-2-1 IK protection 2 IV IP30	Depth	78 mm
IP40 on front face: conforming to EN/IEC 60529 IP30 on side parts: 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	Cut-out dimensions	68 x 68 mm
IP30 on side parts: conforming to EN/IEC 60529 IR 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	Net weight	0.3 kg
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 13.2100 Hz: 0.7 g Vibrations 213.2 Hz: +/- 1 mm	IP degree of protection	IP30 on side parts: conforming to EN/IEC 60529
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 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 61000-4-2 Radiated susceptibility: , 3, 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 Ambient air temperature for storage Offfer Sustainability Sustainable offer status Green Premium product EU RoHS Directive Compliant EU RoHS Declaration	IK degree of protection	IK07 conforming to EN 50102
Overvoltage category Electrical shock protection class Class II 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 61000-4-5 Low-energy conducted susceptibility: , 4, conforming to IEC 61000-4-5 Radiated susceptibility: , 4, conforming to IEC 61000-4-5 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 Ambient air temperature for storage Offer Sustainability Sustainable offer status Green Premium product EU RoHS Directive Compliant EU RoHS Declaration	Mechanical robustness	IK protection 2 joules: IK07 conforming to EN 50102 Vibrations 13.2100 Hz: 0.7 g
Electrical shock protection class 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: , 3, 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 -5585 °C Offer Sustainability Sustainable offer status Green Premium product EU RoHS Directive Compliant EU RoHS Declaration	Environment	
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 61000-4-8 Relative humidity 95 % at 55 °C Pollution degree 3 conforming to IEC 60664-1 Ambient air temperature for operation Ambient air temperature for storage Offer Sustainability Sustainable offer status Green Premium product EU RoHS Directive Compliant EU RoHS Declaration	Overvoltage category	IV
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 Offer Sustainability Offer Sustainability Sustainable offer status Green Premium product EU RoHS Directive Compliant EU RoHS Declaration		Class II
Pollution degree 3 conforming to IEC 60664-1 Ambient air temperature for operation -3570 °C Ambient air temperature for storage -5585 °C Offer Sustainability Sustainable offer status Green Premium product EU RoHS Directive Compliant EU RoHS Declaration	Electromagnetic compatibility	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
Ambient air temperature for operation Ambient air temperature for storage -3570 °C -5585 °C Offer Sustainability Sustainable offer status Green Premium product EU RoHS Directive Compliant EU RoHS Declaration	Relative humidity	95 % at 55 °C
Ambient air temperature for storage Offer Sustainability Sustainable offer status Green Premium product EU RoHS Directive Compliant EU RoHS Declaration	Pollution degree	3 conforming to IEC 60664-1
Offer Sustainability Sustainable offer status Green Premium product EU RoHS Directive Compliant EU RoHS Declaration		-3570 °C
Sustainable offer status Green Premium product EU RoHS Directive Compliant EU RoHS Declaration	<u> </u>	-5585 °C
Sustainable offer status Green Premium product EU RoHS Directive Compliant EU RoHS Declaration	Offer Sustainability	
EU RoHS Declaration		Green Premium product
Mercury free Yes	EU RoHS Directive	·
	Mercury free	Yes

China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
RoHS exemption information	Yes
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

Recommended replacement(s)

56240 is replaced by:





Earth-leakage relay RH99P with manual reset - 0.03..30 A - 0..4.5 s - 415 V $\,$ 56274