Product data sheet
Characteristics

LV481001
Residual current protection relay, VigiPacT RHUs, 30mA-30A, 220/240VAC 50/60Hz, without communication, front panel



Main

Range	VigiPacT
Device short name	RHUs
Product or component type	Residual current protection relay
Relay application	Monitoring relay Protection relay
Mounting support	Front panel
Earth-leakage protection class	Type A
Type of setting	Keypad
Residual earth-leakage sensitity adjustment type	Adjustable
Earth leakage current	0.03…1 A, adjustable in step of 0.001 A 1…30 A, adjustable in step of 0.1 A
Residual earth-leakage time delay adjustment type	Instantaneous for 0.03 A Adjustable 0…4.5 s for 0.03…30 A adjustable in step of 10 ms
Threshold setting	0.015...1 A adjustable in step of 0.001 A pre-alarm 1...30 A adjustable in step of 0.1 A pre-alarm 0.03...1 A adjustable in step of 0.001 A alarm 1...30 A adjustable in step of 0.1 A alarm
Range compatibility	VigiPacT TOA earth leakage current sensor[RETURN]VigiPacT A 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	8 VA
Network rated voltage	1000 V - AC at 50/60 Hz (maximum) 1000 V - AC at 400 Hz (maximum)
Earthing system	TT IT TN-S
[Uimp] rated impulse withstand voltage	8 KV
Reset	Manual reset

Complementary

Test function	Local Remote test
Signal contacts composition	1 C/O alarm fail-safe 1 NO pre-alarm fail-safe
Type of measurement	Earth fault current internal measurement, range: 20...200 %, accuracy: +/- 20 %
Refresh time	0.5 s
Tamperproof of settings	Protected by access code

Connections - terminals	Alarm circuit: terminal block cable(s) 0.2…2.5 mm² flexible 22 AWG...12 AWG Alarm circuit: terminal block cable(s) 0.2…2.5 mm² rigid 22 AWG...12 AWG Relay test and fault reset: terminal block cable(s) 0.2…2.5 mm² flexible 22 AWG...12 AWG Relay test and fault reset: terminal block cable(s) 0.2…2.5 mm² rigid 22 AWG...12 AWG Sensor: terminal block cable(s) 0.2…2.5 mm² flexible 22 AWG...12 AWG Sensor: terminal block cable(s) 0.2…2.5 mm² rigid 22 AWG...12 AWG Voltage presence: terminal block cable(s) 0.2…2.5 mm² flexible 22 AWG...12 AWG Voltage presence: terminal block cable(s) 0.2…2.5 mm² rigid 22 AWG...12 AWG Power supply: terminal block cable(s) 0.2…2.5 mm² flexible 22 AWG...12 AWG Power supply: terminal block cable(s) 0.2…2.5 mm² rigid 22 AWG...12 AWG Pre alarm: terminal block cable(s) 0.2…2.5 mm² flexible 22 AWG...12 AWG Pre alarm: terminal block cable(s) 0.2…2.5 mm² rigid 22 AWG...12 AWG
Wire stripping length	Alarm circuit: 6 mm Relay test and fault reset: 6 mm Sensor: 6 mm Voltage presence: 6 mm Power supply: 6 mm Pre alarm: 6 mm
Tightening torque	Alarm circuit: 0.5 N.m Relay test and fault reset: 0.5 N.m Sensor: 0.5 N.m Voltage presence: 0.5 N.m Power supply: 0.5 N.m Pre alarm: 0.5 N.m
Standards	EN/IEC 60947-2 Annex M EN/IEC 60755
Width	72 Mm
Height	72 Mm
Depth	117 Mm
Cut-out dimensions	68 x 68 mm
Net weight	0.3 Kg
IP degree of protection	IP40 front face: conforming to IEC 60529 IP30 other parts: conforming to IEC 60529 IP20 connection: conforming to IEC 60529
IK degree of protection	IK07 conforming to EN 50102
Mechanical robustness	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	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	-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	8.5 Cm
Package 1 Width	11.0 Cm
Package 1 Length	15.5 Cm
Package 1 Weight	430.0 G
Unit Type of Package 2	S04
Number of Units in Package 2	24
Package 2 Height	30.0 Cm

Package 2 Width	40.0 Cm
Package 2 Length	60.0 Cm
Package 2 Weight	11.086 Kg

Offer Sustainability

Recyclability potential, in %	0
Total lifecycle Carbon footprint	161 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	22.28833333333333
Carbon footprint of the manufacturing phase [A1 to A3]	22 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.05622906103286384
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.12399342723004694
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	138.10999999999999
Carbon footprint of the use phase [B2, B3, B4, B6]	138 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.6412955399061032
Carbon footprint of the end-of-life phase [C1 to C4]	0.6 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	161
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
SCIP Number	6b2913b0-ca83-4683-bb4c-744a8bb90c08
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, w
Halogen-free status	Halogen free plastic parts product
End of life manual availability	End Of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised