

RGU-100B, Residual current monitoring relay, type B

- Code: P11961.
- > Protocol: Modbus/RTU
- > Módules: 3
- > Pre-alarm relay: Yes
- > Communications: RS-485
- > N° relays: 1
- > I∆n (A): 0,03 ... 3 A
- > Power supply (Vac): 230 Vac
- > Delay: 0,1 ... 5 s, INS, SEL
- > Mounting: DIN rail

Description

The residual current current intensity monitoring and protection relay (IEC 62020), compatible with the WGB series, for type B loads (IEC 60755).

High-performance relay with the following main features and functions:

- Electronic relay with relay output.
- Measures in alternating, continuous or mixed current (Type B according to IEC 60755).
- It measures and displays the current intensity through the connection to the WGB-series residual current transformer.
- Fully programmable with display showing instantaneous leakage current in real time on a high-contrast backlight display (display turns red when the relay trips).
- Integrated RS-485 (Modbus) communications.
- Pre-alarm relay.
- Event log.
- Remote control input.

Application

Residual current protection or monitoring of single-phase or three-phase electrical loads in alternating current with continuous components, with frequencies up to 2 kHz, such as:

- Variable speed drives.
- o UPS
- Photovoltaic Installations.
- Electric Vehicle Charging.
- Active Filters.

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Type-B earth leakage monitoring and protection relay

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Specifications

AC power supply					
Installation category	CAT III 300 V				
Consumption	7.5 VA				
Frequency	50 60 Hz				
Nominal voltage	230 V~ (± 15 %)				
Mechanical characteristics					
Size (mm) width x height x depth	52.5 x 118 x 74 (mm)				
Screw type	Flat				
Envelope	Self-extinguishing V0 plastic				
Torque setting	≤ 0.4 Nm, M2.5				
Cable gauge at power supply terminals	2,5 mm ²				
Cable gauge at input and output terminals	2,5 mm ²				
Weight (kg)	0,188				
nvironmental characteristics					
Protection class	IP 30, IP 40 (Vorderseite)				
Relative humidity (without condensation)	5 95 %				
Storage temperature	-20 +70 °C				
Working temperature	-10 +50 °C				
Communications					
Data bits	8				
Parity	without, even, odd				
Protocol	Modbus RTU				
Speed	4800-9600-19200-38400-57600-115200 bps				
Stop bits	1-2				
Digital inputs					
Input impedance	2 kΩ				
Input/output insulation	5.3 kV				
Туре	Potential-free contact				
Standards					
Electrical safety, Maximum height (m)	2000				
Standards	IEC 60947-2-M, Measurement conditions for type B waveforms specified in IEC 60755, UNE-EN 60068-2-7, UNE-EN60068-2-2, UNE-EN 60068-2-78				



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User interface

LED	2
Keyboard	3 keys
Display type	LCD (negative)

Digital relay outputs

Quantity	1
Maximum current	6 A
Maximum open contact voltage	230 V ~
Electrical life	60 × 10 ³ (250 V ~ / 5A)
Mechanical life	10 × 10 ⁶
Maximum switching capacity	1500 VA

Digital transistor outputs

Туре	Optocoupled
Maximum current	0.1 A
Maximum voltage	230 V ~

Differential protection

Туре	Туре В
Sensitivity (ΙΔn), A	0,03 3
Delay time (t∆)	INS - [S]-0.1-0.2-0.3-0.4-0.5-0.8-1-3-5 s
Transformer	External, WGB series (not included)

RGU-100B

Residual current relay, type B

P11961. RGU-100B 0,03 3 A 1 Yes 3 DIN rail 0,1 10 s, INS, SEL RS-485 Modbus/RTU 230 Vac	CODE	TYPE	l∆n (A)	N° relays	Pre-alarm relay	Módules	Mounting	Delay	Communications	Protocol	Power supply
	P11961.	RGU-100)B 0,03 3 A	1	Yes	3	DIN rail	0,1 10 s, INS, SEL	RS-485	Modbus/RTU	230 Vac

Associated with WGB-type residual current transformers



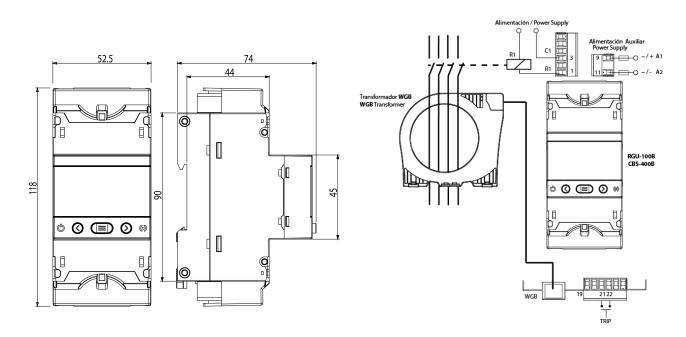


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Dimensions

Connections



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