





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:

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









Type-B earth leakage monitoring and protection relay

Code: P11961.

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)
Envelope	Self-extinguishing V0 plastic
Weight (kg)	0,188
Environmental characteristics	
Protection class	IP 30, IP 40 (Vorderseite)
Relative humidity (without condensation)	5 95 %
Storage temperature	-20 +70 °C
Working temperature	-10 +50 °C
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 60068-2-1, UNE-EN60068-2-2, UNE-EN 60068-2-78
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 x 10 ⁶
Maximum switching capacity	1500 VA







Type-B earth leakage monitoring and protection relay

Code: P11961.

Digital transistor outputs

Туре	Optocoupled
Maximum current	0.1 A
Maximum voltage	230 V ~

Differential protection

Туре	Туре В
Sensitivity (I∆n), 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)

Serial communication

Protocol	Modbus/RTU
Technology / Type	RS-485

RGU-100B

Residual current relay, type B

CODE	TYPE	I∆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









Type-B earth leakage monitoring and protection relay

Code: P11961.

Dimensions

Connections





