



RGU-10B

RGU-10B, Residual current relay type B

Code: P11951.

- > Módulos: 3
- > Pre-alarm relay: Yes
- > N° relays: 1
- > $I_{\Delta n}$ (A): 0,1...3 A
- > Power supply (Vac): 230 Vac
- > Delay: 0,1 ... 10 s
- > Mounting: DIN rail

Description

Electronic residual current protection and monitoring relay (**IEC 62020**) compatible with the protection transformers of the **WGC-TB** series. The **RGU-10B** is the most complete system for monitoring and controlling electrical insulation of type-B installations (**IEC 60755**).

- Electronic relay with relay output.
- Measures in AC, DC or mixed current, type B (**IEC 60755**)
- Measures the intensity of the current by connecting to an residual current transformer of the **WGC-TB**
- Programmable with backlit LCD display:
 - Trip current (red display when tripped)
 - Parameter programming
 - Instantaneous leakage current
 - Disconnection of external transformer
- Status signalling via 2 LEDs
- Features two independent programmable outputs (main and prealarm).
- Includes a remote-control input.
- Assembly on **DIN 46277** rail (**EN 50022**), 3 modules.

Application

Monitoring of the electrical insulation in:

- Single or three-phase AC installations, AC installations with DC components or purely DC installations. With frequencies of up to 1 kHz.

Such as, for example:

- Speed drives
- UPS (Uninterruptible Power Supply systems)
- Photovoltaic installations
- Motor control devices, etc.



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Specifications

AC power supply

Consumption	6 VA
Frequency	50/60 Hz
Nominal voltage	230 V~ (± 20 %)

Mechanical characteristics

Size (mm) width x height x depth	52.5 x 85 x 67.9 (mm)
Fastening	DIN rail
Weight (kg)	0,28

Environmental characteristics

Protection class	IP 20 (terminals), IP 41 (front)
Relative humidity (without condensation)	5 ... 95 %
Working temperature	-10 ... +50 °C

External reset input for tripping

Type	Optocoupled
Maximum power	0,7 W
Maximum voltage	230 Vca ± 20%

Standards

Electrical safety, Maximum height (m)	2000
Standards	IEC 60947-2 (M), IEC 62020, IEC 60755

User interface

Display type	Backlit LCD
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Digital relay outputs

Nominal load in AC1	2500 VA
Nominal current	10 A ~
Nominal voltage	250 V ~
Maximum current	15 A ~

Differential protection

Type	Type B
Sensitivity (IΔn), A	0,1 ... 3
Delay time (tΔ)	0,1 ... 10 s
Transformer	External, WGC-TB series



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CODE	TYPE	IΔn (A)	Nº relays	Pre-alarm relay	Módulos	Mounting	Delay	Communications	Protocol	Power supply
P11951.	RGU-10B	0,1...3 A	1	Yes	3	DIN rail	0,1 ... 10 s	-	-	230 Vac

Requires an residual current transformer, WGC-TB type. See coding table for other options.



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Dimensions



Connections

