



RGU-10C

RGU-10C, Residual current relay

Code: P11944.

- > Protocol: Modbus/RTU
- > Módulos: 3
- > Pre-alarm relay: Yes
- > Communications: RS-485
- > N° relays: 1
- > $I_{\Delta n}$ (A): 0,03 ... 3 A | 0,03 ... 30 A
- > Power supply (Vac): 230 Vac
- > Delay: 0,02 ... 10 s, INS, SEL
- > Mounting: DIN rail

Description

Electronic residual current protection relay of the **WG** series, connected to the external transformers of the **WG / WGC** series. Superimmunized type relay with high frequency currents filtering and high immunity. True RMS measurement (TRMS).

- Data shown on the display
- Features two independent programmable outputs (main and prealarm)
- External input for remote-control functions (230 Vac)

Application

The RGU-10 relays associated with WG transformers offer smart residual current protection. Their design features guarantee maximum security and electrical service continuity, avoiding unwanted tripping.

Viewing the instantaneous leakage value on the display, together with the prealarm indicators, makes it possible to obtain information on the status of lines to be protected, and to perform adequate preventive maintenance.

In addition, version RGU-10 C features RS-485 communications and, with the PowerStudio software, offers centralised supervision in real time, as well as keeping a log of historical data for future analysis.



RGU-10C

Electronic residual current relay compatible with external transformer of the WG series

Code: P11944.

Specifications

AC power supply

Consumption	6 VA
Frequency	50/60 Hz
Nominal voltage	110 - 230 V~ ($\pm 20\%$)

Mechanical characteristics

Size (mm) width x height x depth	52.5 x 85 x 67.9 (mm)
Fastening	DIN rail
Weight (kg)	0,255

Environmental characteristics

Protection class	IP 20 (terminals), IP 41 (front)
Relative humidity (without condensation)	5 ... 95 %
Ambient temperature	-40 ... +85 °C
Working temperature	-10 ... +50 °C

External reset input for tripping

Type	Optocoupled
Maximum power	0,7 W
Maximum voltage	230 Vca $\pm 20\%$

Standards

Electrical safety, Maximum height (m)	2000
Electrical safety, Installation category	CAT III 300V ca
Standards	IEC 61008.1, IEC62020, IEC60947-2 Anexo M, IEC 60755

Electrical safety

Insulation	Double-insulated electric shock protection class II (IEC 61010-1)
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User interface

Display type	Backlit LCD
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Digital relay outputs

Nominal load in AC	2500 VA
Nominal current	6 A ~
Nominal voltage	250 V ~
Maximum current	10 A ~
Mechanical life	10 x 10 ⁶



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Electronic residual current relay compatible with external transformer of the WG series

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Differential protection

Type	Type A ultra-immunised
Sensitivity ($I_{\Delta n}$), A	0,03 ... 3 / 5-10-30 (Setup)
Transformer	External, WG/WGC series

Protection

Circuit breaker type	Contact or Circuit Breaker + trigger coil
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Serial communication

Protocol	Modbus/RTU
Technology / Type	RS-485

RGU-10 C

Residual current relay, type A, for ultra-immunised WGC Transformer, 3 modules with display and programmable pre-alarm output with communications.

CODE	TYPE	$I_{\Delta n}$ (A)	N° relays	Pre-alarm relay	Módulos	Mounting	Delay	Communications	Protocol	Power supply
Possibility UL on demand										
P11944.	RGU-10C	0,03 ...30 A	1	Yes	3	DIN rail	0,02 ... 10 s, INS, SEL	RS-485	Modbus/RTU	230 Vac



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Electronic residual current relay compatible with external transformer of the WG series

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Dimensions



Connections

