



RGU-10

RGU-10, Residual current relay

Code: P11941.

- > Módulos: 3
- > Pre-alarm relay: Yes
- > N° relays: 1
- > I Δ 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.



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Electronic residual current relay with external transformer of the WG series

Code: P11941.

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)
Cable length to be stripped (mm)	7
Torque setting	0,5 ... 0,6 Nm
Cable gauge at power supply terminals	0.5 ... 2 mm ²
Fastening	DIN rail
Weight (kg)	0,234

Environmental characteristics

Protection class	IP 20 (terminals), IP 41 (front)
Relative humidity (without condensation)	5 ... 95 %
Ambient temperature	-40 ... +85 °C
Operating 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, IEC 61010
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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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 with external transformer of the WG series

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Differential protection

Sensitivity ($I_{\Delta n}$), A	0,03 ... 3 / 5-10-30 (Setup)
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Protection

Safety relay type (class)	Class A super-immunised, high-frequency current filtering
Circuit breaker type	Contactors or Circuit Breaker + trigger coil
Differential transformer	External, WG/WGC series



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Electronic residual current relay with external transformer of the WG series

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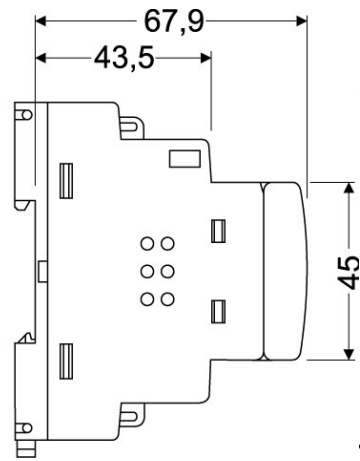
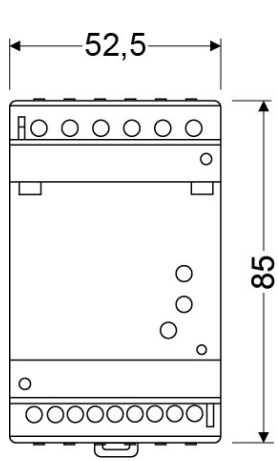
RGU-10

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

CODE	TYPE	N° relays	I _{Δn} (A)
P11941.	RGU-10	1	0,03 ... 3 A 0,03 ...30 A
P11944.	RGU-10C	1	0,03 ... 3 A 0,03 ...30 A

The delay is cancelled in all relays with a 0.03 A sensitivity adjustment, according to IEC 60947-2, annex M INS, SEL trip curves, according to IEC 61008-1, for trigger coils with a tripping time < 0.02 s Requires a WGC residual current transformer To encode other parameters, such as the auxiliary power supply voltage, see the table at the end of the section

Dimensions



Connections

