RGU2

RGU2, Residual current relay

Code: P11A61.

> Módules: 2
> N° relays: 1
> IΔn (A): 0,03 ... 5 A
> Power supply (Vac): 120...230 Vac
> Delay: 0,1 ... 5 s, INS, SEL (*1)(*2)
> Mounting: DIN rail

Description

Electronic industrial residual current protection relay, compatible with the **WGC** series protection transformers.

Ultra-immunised type-A relay, with high-frequency current filtering and high immunity. True root mean square (TRMS) measure.

- Programmable with backlit LCD display:
- Sensitivity and trip time
- Output contact status.
- Protection status messages.
- Real-time level of leakage.
- LED bar showing the percentage leakage current measured by the unit.
- Features two independent programmable outputs (main and prealarm / relay fault).
- Assembly on **DIN 46277** rail (**EN 50022**), 2 modules.
- Locking the programming menu with the keyboard or by sealing the PROG button.
- **RCM** and **MRCD** in the same unit (see connections)

Application

The RGU-2 relays associated with WGC transformers offer smart and robust residual current protection against all types of unwanted tripping. Since these residual current relays only take up 2 modules of space, include an LCD display, a bar LED and are fully programmable, they are essential for protecting people and for preventive maintenance of the installations.

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RGU2

Electronic relay for residual current protection and monitoring

Code: P11A61.

Specifications

AC power supply, insulation

Pulse test (kV)	4kV

AC power supply

Installation category	CAT III 300 Vac (IEC 61010)
Consumption	6 VA
Frequency	50/60 Hz
Nominal voltage	120 ... 230V ~

Mechanical characteristics

Size (mm) width x height x depth	35 x 112 x 84 (mm)
Envelope	Polycarbonate V0
Fastening	DIN rail
Weight (kg)	0,14

Environmental characteristics

Protection class	IP 40
Relative humidity (without condensation)	5 ... 95 %
Storage temperature	-25 ... +70 °C
Working temperature	-10 ... +50 °C

Current measurement circuit

Transformation ratio	Transformer type TP-WG, WG o WGC de 500/1

Standards

Electrical safety, Maximum height (m)	2000
Electrical safety, Contamination level/class	Pollution resistance 2
Standards	IEC 60947-2 Anexo M, IEC 62020

Other digital relay outputs

Thermal current (Ith)	5 A
Maximum switching capacity	1250 VA, 150 W
Insulation voltage	2000 V ~
Maximum open contact voltage	1000 V ~
Electrical life	105 (a 3 A)

Digital relay outputs

Thermal current (Ith)	10 A
Insulation voltage	2500 V ~

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Maximum open contact voltage	1000 V ~
Electrical life	30 x 10^3 (a 3 A)
Maximum switching capacity	2500 V ~

Measurement accuracy

Phase current measurement	< 10 %

Differential protection

Type	Type A ultra-immunised
Sensitivity (IΔn), A	0,03 ... 5
Delay time (tΔ)	0,01 ... 5 s
Transformer	External, WGC series

Protection

Measure	True root mean square (TRMS)
Circuit breaker type	Contactor or Circuit Breaker + trigger coil

RGU-2
Ultraimmunized programmable residual current relay, 2 modules with display and static prealarm output

CODE	TYPE	N° relays	IΔn (A)
P11A61.	RGU2	1	0,03 ... 5 A

Requires a WGC residual current transformer.

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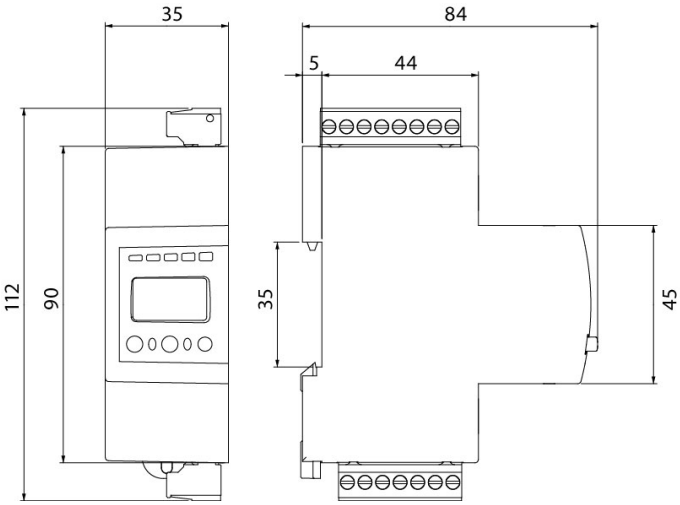
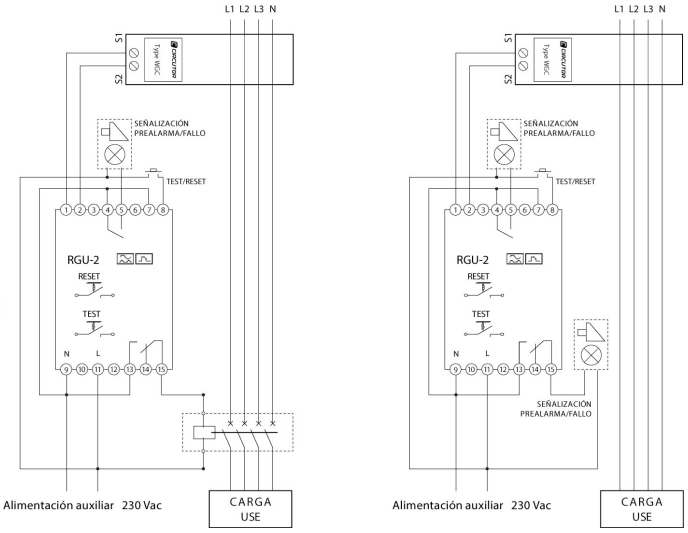
Dimensions



Connections



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