RGU-100A

RGU-100A, Residual current relay for WGC Transformer, ultraimmunized type A, 3 modules and screen

Code: P11A71.

> Módules: 3
> Communications: RS-485
> Protocol: Modbus/RTU
> Pre-alarm relay: Yes
> N° relays: 2
> IΔn (A): 0,03 ...30 A
> Power supply: 110 ... 230 Vac
> Delay: 0,1... 5 s, INS, SEL
> Mounting: DIN rail

Description

The **RGU-100A** is a type-A ultraimmunized earth leakage protection and monitoring relay that is compatible with the earth leakage transformers in the WGC range.
The device measures, calculates and displays the true RMS value of the residual current by using a residual current input from an external measurement toroidal transformer in the WGC series.

The **RGU-100A** can be used to program and adjust all the parameters required to obtain complete protection and control of the installation.

Main characteristics:

- True root mean square value
- RCM & MRCD on one device
- Keypad locking of programming menu
- RGB backlit display
- Ultra-immunized type A RCD
- Immunity to transients
- Filtering of the highest order high frequencies
- Trip adjustment between 80 and 100% IΔn
- Inverse curve
- RS-485 communications

Application

The **RGU-100A** offers smart residual current protection.

Thanks to its design characteristics, this device provides the most complete type-A protection to ensure the safety of people and continuity of supply in electrical installations.

Its ultraimmunized system guarantees that a trip will only occur when it is absolutely necessary, avoiding financial losses due to unwanted trips.

Being able to view the instantaneous leakage value on the display, together with the pre-alarm indications, provides information on the status of the lines they protect so that proper preventive maintenance can be done.
In addition, the RGU-100A version with RS-485 communications, in conjunction with PowerStudio software, adds centralized real-time monitoring and logging for later analysis.

RGU-100A

Electronic differential relay compatible with WGC series external transformer

Code: P11A71.

Specifications

AC power supply

Installation category	CAT III 300 V
Consumption	6.5 VA
Frequency	50 ... 60 Hz
Nominal voltage	110 ... 230 V ~

Mechanical characteristics

Size (mm) width x height x depth	52.5 x 118 x 74 (mm)
Envelope	Sel-extinguishing V0 plastic
Fastening	DIN rail
Weight (kg)	0,234

Environmental characteristics

Protection class	IP 30 (terminals), IP 40 (front)
Relative humidity (without condensation)	5 ... 95 %
Storage temperature	-20 ... +70 °C
Working temperature	-10 ... +60 °C

External reset input for tripping

Type	110 ... 230 V ~

Standards

Electrical safety, Maximum height (m)	2000
Electrical safety, Contamination level/class	2
Standards	IEC 60947-2-M, IEC 62020-1, UNE-EN 60068-2-1, UNE-EN 60068-2-2, UNE-EN 60068-2-78

User interface

LED	2
Keyboard	3 keys
Display type	LCD custom (negative)

Digital relay outputs

Quantity	2
Maximum current	6 A ~
Maximum open contact voltage	230 V ~ ± 15 %
Electrical life (at maximum load)	60 X 10^3
Mechanical life	10 x 10^6

RGU-100A

Electronic differential relay compatible with WGC series external transformer

Code: P11A71.

Maximum switching capacity	1500 VA

Differential protection

Type	Type A ultra-immunised
Sensitivity (IΔn), A	0.03 - 0.1 - 0.2. - 0.3 - 0.5 - 0.75 - 1 - 1.5 - 2 - 3 - 5 - 10 - 30 A
Delay time (tΔ)	INS - [S]-0.1-0.2-0.3-0.4-0.5-0.8-1-3-5 s
Transformer	External, WGC series

Serial communication

Protocol	Modbus/RTU
Technology / Type	RS-485

RGU-100A

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

CODE	TYPE	IΔn (A)	N° relays	Pre-alarm relay	Módules	Mounting	Delay	Communications	Protocol	Power supply
Possibility UL on demand										
P11A71.	RGU-100A	0,03 ...30 A	2	Yes	3	DIN rail	0,1... 5 s, INS, SEL	RS-485	Modbus RTU	110 ... 230 Vac

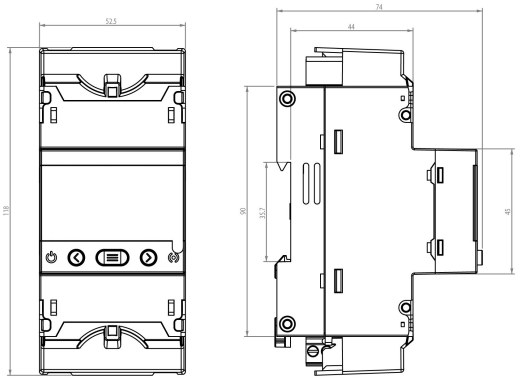
For supply voltages other than 230 Vac, please consult us.

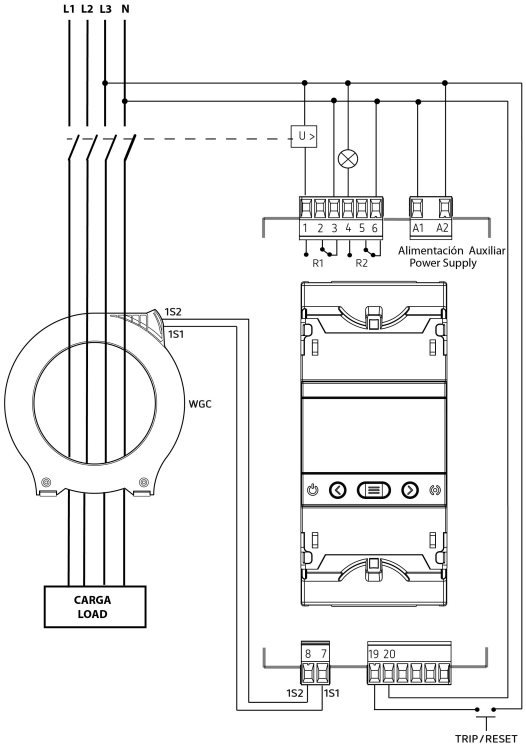
RGU-100A

Electronic differential relay compatible with WGC series external transformer

Code: P11A71.

Dimensions



Connections

Conexión con bobina de emisión / Connection with emission coil