



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

> I\( \Delta n \) (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
- o RCM & MRCD on one device
- Keypad locking of programming menu
- o RGB backlit display
- o Ultra-immunized type A RCD
- o Immunity to transients
- o Filtering of the highest order high frequencies
- $\circ$  Trip adjustment between 80 and 100% I $\Delta$ n
- Inverse curve
- o 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

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.







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	
Туре	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 <sup>3</sup>
Mechanical life	10 x 10 <sup>6</sup>







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1500 VA Maximum switching capacity

### Differential protection

Туре	Type A ultra-immunised
Sensitivity (I∆n), 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	I∆n (A)	N° relays	Pre-alarm relay	Módules	Mounting	Delay	Communications	Protocol	Power supply
Possibility UL on demand										
P11A71.	RGU-100	A 0,0330 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.







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Dimensions Connections

Conexión con bobina de emisión / Connection with emission coil





