RGE-RL

RGE-RL, Residual current relay

Code: P12A32.

> Módules: 2
> N° relays: 1
> IΔn (A): 0,03 ... 5 A
> Power supply (Vac): 230 Vac
> Delay: 0,02 ... 5 s
> Mounting: DIN rail

Description

Electronic residual current protection relay, used to connect to the residual current transformers WG / WGC Series. These electronic relays offer a high reliability, with the option of a fixed or adjustable sensitivity and delay Type A relay with high frequency current filtering and high immunity. Monitoring of the true root mean square (TRMS).

- Assembly on **DIN** rail **46277**
- Reduced size: 2 modules
- LED indicators:
  - Permanently lit leak indicator: LED Trigger relay
  - Flashing power LED and lit leak LED: detection of faults in the transformer's continuity
  - Flashing leak LED indicator:
    - Leak with a value under the value selected
    - 1 flash every 2s: 25 ... 50% of the leakage current
    - 1 flash every 1s: 50 ... 75%
    - 2 flashes every 1s: 75 ... <100%
    - Permanently: 100 %

Application

The relays of the RGE series and the transformer of the WG / WGC series enable a full residual current protection for both single and three-phase lines. They guarantee maximum security and continuity of the electrical service, avoiding unwanted tripping.

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Specifications

AC power supply

Installation category	CAT III 300 V
Consumption	4,5 VA
Frequency	50/60 Hz
Nominal voltage	230 V ~ ±20 %

Mechanical characteristics

Size (mm) width x height x depth	35 x 85 x 68 (mm)
Envelope	Polycarbonate
Fastening	DIN 46277
Weight (kg)	0,16

Environmental characteristics

Protection class	IP 20
Relative humidity (without condensation)	5 ... 95 %
Working temperature	-10 ... +50 °C

Standards

Electrical safety, Maximum height (m)	2000
Electrical safety, Installation category	CAT III 300 V
Standards	IEC 60755, IEC 60947-2-M

Electrical safety

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

Digital relay outputs

Nominal voltage	250 V ~
Resistive load (max.)	250 Vca / 6 Aca
Maximum current	10 A ~
Electrical life	$1x10^4$
Maximum switching capacity	2500 VA

Differential protection

Type	Type A ultra-immunised
Sensitivity (IΔn), A	0,03 ... 5 seleccionable
Delay time (tΔ)	0.02... 5 s (selectable)

Protection

LED indication	Power supply voltage Earth leakage tripping External transformer disconnection

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

RGE-R

Ultraimmunized residual current relay, type A, for WGC transformer, 2 modules with visual prealarm.

CODE	TYPE	IΔn (A)	Nº relays
P12231.	RGE-R1	0,03 ... 3 A	
P12A32.	RGE-RL	0,03 ... 5 A	1
P122320040000	RGE-R	0,03 ... 5 A	1

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

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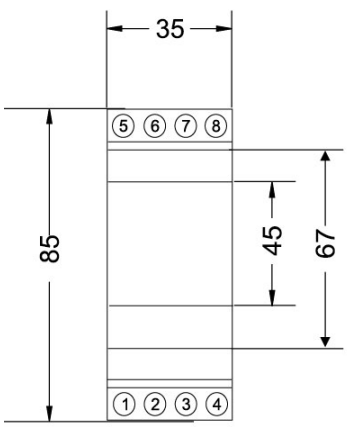
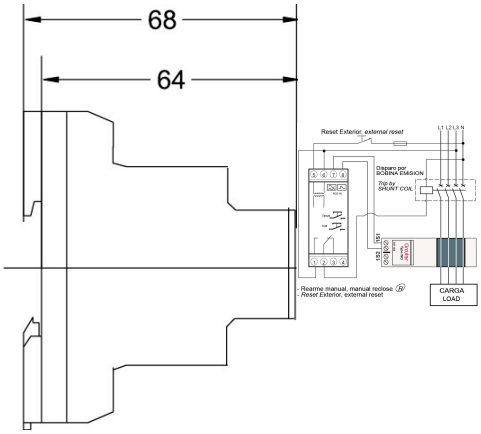
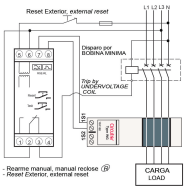
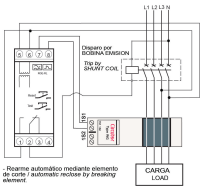
Dimensions





Connections