



## RGE-R1

RGE-R1, Residual current relay for WGC transformer, type A

Code: P12231.

- > Módules: 2
- >  $I_{\Delta n}$  (A): 0,03 ... 3 A
- > Power supply (Vac): 230 Vac
- > Delay: 0,02 ... 1 s (\*1)
- > 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 Vac (IEC 61010)
Consumption	3 VA
Frequency	50/60 Hz
Nominal voltage	230 V~ / 110 V~ (±20 %)

#### Mechanical characteristics

Size (mm) width x height x depth	35 x 85 x 68 (mm)
Envelope	Polycarbonate
Fastening	DIN rail 46277
Weight (kg)	0,168

#### 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 300V ca
Standards	IEC 60755, IEC 60947-2-M

#### Electrical safety

Insulation	Double-insulated electric shock protection class II (IEC 61010-1)
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#### Digital relay outputs

Maximum current	10 A ~
Maximum power	2500 VA
Maximum switching capacity	2500 VA

#### Differential protection

Type	Type A ultra-immunised
Sensitivity ( $I\Delta n$ ), A	0,03 ... 3 seleccionable
Delay time ( $t\Delta$ )	0.02... 5 s (selectable)

#### Protection

LED indication	Power supply voltage Earth leakage tripping External transformer disconnection Prealarm
Measure	True root mean square (TRMS)



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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	I <sub>Δn</sub> (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

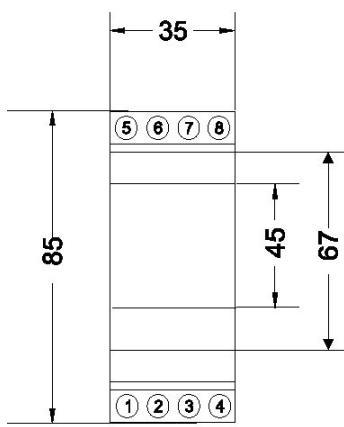


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### Dimensions



### Connections

