



RGE-RL

RGE-RL, Residual current relay

Code: P12A32.

- > Módulos: 2
- > N° relays: 1
- > $I_{\Delta n}$ (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 | Contact or Circuit Breaker + trigger coil |

RGE-R

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

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

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

