

WG Series

RGU-10 / RGU-10 C

Electronic earth leakage relay with external transformer of the WG / WGC Series



Description

Electronic earth leakage protection relay, used to connect to the earth leakage transformers **WG / WGC** Series

- Superimmunized Type A relay with high frequency current filtering and high immunity
- Monitoring of the true root mean square (TRMS)
- Display of data on the screen Two independent programmable outputs (main and pre-alarm)
- External input for remote control functions (230 Vac).

Application

The **RGU-10** relays associated to the transformers of the **WG / WGC** series allow an smart earth leakage protection. Their design features guarantee maximum security and continuity of the electrical service, avoiding unwanted tripping.

Showing the value of the leak instantaneously on the display with the pre-alarm indications provides the information about the state of lines being protected, thus allowing the implementation of an adequate preventive maintenance approach.

In addition, version **RGU-10 C** with RS-485 communications is used with the **Power Studio** software, which allows the centralised supervision of the system in real time, with a record log that can be analysed later on.

Features

| | |
|---------------------------------|---|
| Protection | |
| Class | A superimmunized |
| Measurement | True root mean square (TRMS) |
| Sensitivity | 0.03 ... 3 A 0.03 ... 30 A (PROGRAMMING) |
| Delay | Time defined: 0,02 ... 10 s Inverse curve: Instantaneous or selective |
| Earth leakage transformer | External, TRANSFORMERS WG / WGC |
| Test and Reset | With built-in buttons, T & R |
| Remote Control | External Test Option |
| Associated circuit breaker | Contact or Circuit breaker + trigger coil |
| LED indicator | <ul style="list-style-type: none"> • Power supply voltage • Trip due to leakage • Disconnection of the external transformer • Pre-alarm |
| Display View | <ul style="list-style-type: none"> • Current trip (red display when triggered) • Programming parameters • Instantaneous leakage current • Disconnection of the external transformer |
| Remote signaling | <ul style="list-style-type: none"> • Pre-alarm • Display of parameters with RS-485 communications (RGU-10 C) |
| Circuit breaker control | Through an NO/NC switched relay, depending on the connection with the circuit breaker |
| Features | |
| Auxiliary power supply | 230 Vac (± 20 %) 50 / 60 Hz (other values on demand) |
| Output contacts | 250 Vac, 6 A |
| Operating temperature | -10 ... +50 °C |
| Construction features | |
| Fixing | DIN Rail 46277 (EN 50022) |
| Dimensions | 3 modules |
| Weight | 236 g |
| Degree of protection | IP 20 Terminals, IP 41 back panel |
| Standards | |
| IEC 61008-1, IEC 755, IEC 255-5 | |

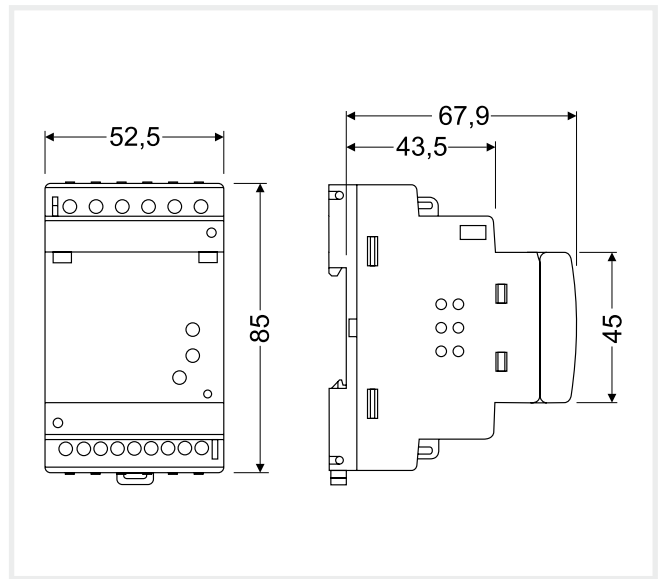
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Dimensions

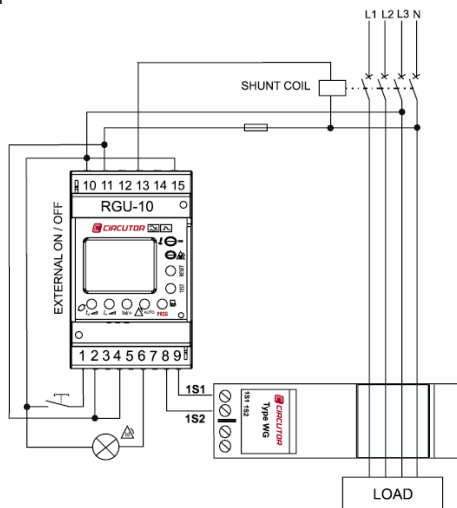


References

| Size | Communications | I_n (A) | Delay | Type | Code |
|-----------|----------------|--|-----------------------|----------|--------|
| 3 modules | - | 0.03 ... 3 A 0.03 ... 30 A (PROGRAMMING) | 0.02...10 s, INS, SEL | RGU-10 | P11941 |
| 3 modules | RS-485 | 0.03 ... 3 A 0.03 ... 30 A (PROGRAMMING) | 0.02...10 s, INS, SEL | RGU-10 C | P11944 |

Connections

Shunt coil



Undervoltage coil

