

RGE

Electronic earth leakage relay



Compatible with
WGC earth leakage
transformers

Description

Electronic earth leakage protection relay, used to connect to the earth leakage 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 2 s: 25 ... 50% of the leakage current
 - 1 flash every 1 s: 50 ... 75%
 - 2 flashes every 1 s: 75 ... <100%
 - Permanently: 100 %

Applications

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

Technical features

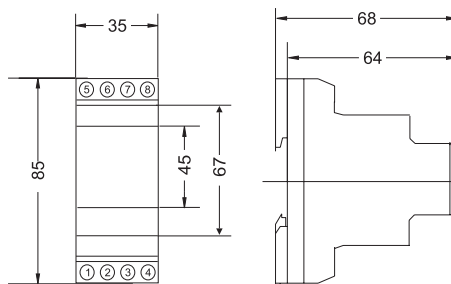
Protection	Class	A ultraimmunized
	Measurement	True Root Mean Square (TRMS)
	Sensitivity, $I_{\Delta n}$	0,03...3 A (RGE-R1) 0,03...5 A (RGE-R , RGE-RL)
	Delay, t_{Δ}	0,02...1 s (RGE-R1) / 0,02...5 s (RGE-R , RGE-RL)
	Earth leakage transformer	External, WG / WGC
	Test and Reset	With built-in buttons, T & R
	Remote Control	External Test Option
	Associated circuit breaker	Contact or Circuit breaker + trigger coil
	LED indicator	Power supply voltage Trip due to leakage Disconnection of the external transformer Pre-alarm
	Circuit breaker control	Through an NO/NC switched relay, depending on the connection with the circuit breaker
Electrical features	Auxiliary power supply	230 Va.c. ($\pm 20\%$) 50 / 60 Hz (RGE-R1 , RGE-RL) 24...48 Va.c. / 24...125 Vd.c. (RGE-R) (other values on demand)
	Output contacts	250 V a.c., 6 A
	Temperature of use	-10...+50 °C
	Construction features	Fixation
Dimensions		2 modules
Weight		163 g
Protection Degree		IP 20 Terminals, IP 41 back panel
Standards	IEC 60947-2, IEC 60755, IEC 62020, IEC 61008	

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Referenes

Type	Code	Auxiliary Power Supply	Sensitivity $I_{\Delta n}$	Delay, t_{Δ}
RGE-R1	P12231	230 Va.c. ($\pm 20\%$) 50 / 60 Hz	0,03...3 A	0,02...1 s
RGE-RL	P12A32	230 Va.c. ($\pm 20\%$) 50 / 60 Hz	0,03...5 A	0,02...5 s
RGE-R	P122320040000	24...48 Va.c. / 24...125 Vd.c.	0,03...5 A	0,02...5 s

Dimensions



Connections

