

RG1M

Electronic earth leakage relay with external transformer of the WGC series



Compatible with **WGC** earth leakage transformers

Description

Electronic earth leakage protection relay of the **WGC** series connected to the external toroidal transformers of the **WGC** series.

These are highly reliable electronic relays with the option of having fixed or adjustable sensitivity and delay:

- True root mean square measure, TRMS.
- Assembly on **DIN 46277** rail (**EN 50022**)
- Reduced single-module size.

LED status indication:

- Power LED ON. Device powered on.
- Leakage LED ON. Tripped relay.
- Power LED flashing and leakage LED ON. Detection of a continuity fault in the transformer.

Applications

RG1M relays used with **WGC** transformers offer a full earth leakage protection in single-phase and three-phase lines.

Technical features

Protection	Class	Type A
	Measurement	True root mean square (TRMS)
	Sensitivity, $I_{\Delta n}$	0.03 A (RG1M-0.03) 0.3 A (RG1M-0.3)
	Delay, t_{Δ}	Time defined: 0.02 s INS (Instantaneous)
	Earth leakage transformer	External, WGC series
	Test and reset	Using buttons T and R
	Associated circuit breaker	Contact or circuit breaker using a trigger coil
	LED indicators	Power supply voltage Leakage trip Disconnection of external transformer
Electrical features	Circuit breaker control	Output of NO / NC changeover contact relay, according to the circuit breaker type
	Power supply	230 Vac ($\pm 20\%$) 50 / 60 Hz
	Output contacts	250 Vac, 5 A
	Operating temperature	-10 ... +65 °C
Mechanical features	Attachment	DIN 46277 rail (EN 50022)
	Dimensions	1 module
	Weight	85 g
	Protection degree	IP 20
Standards	IEC 60947-2, IEC 60755, IEC 62020, IEC 61008	

Maximum operating time (s) for $I_{\Delta n}$

Type	$I_{\Delta n}$	$1 \cdot I_{\Delta n}$	$2 \cdot I_{\Delta n}$	$5 \cdot I_{\Delta n}$	500 A
INSTantaneous	All values	0.3	0.15	0.04	0.04

Standardised values in accordance with **IEC 61008-1**