RG1M

Electronic earth leakage relay with external transformer of the WGC series

Desription

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.

Compatible with **WGC** earth leakage transformers

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	Contactor or circuit breaker using a trigger coil
	LED indicators	Power supply voltage Leakage trip Disconnection of external transformer
	Circuit breaker control	Output of NO / NC changeover contact relay, according to the circuit breaker type
Electrical features	Power supply	230 Vac (± 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· $I_{\Delta n}$	2· $I_{\Delta n}$	5· $I_{\Delta n}$	500 A
INStantaneous	All values	0.3	0.15	0.04	0.04

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

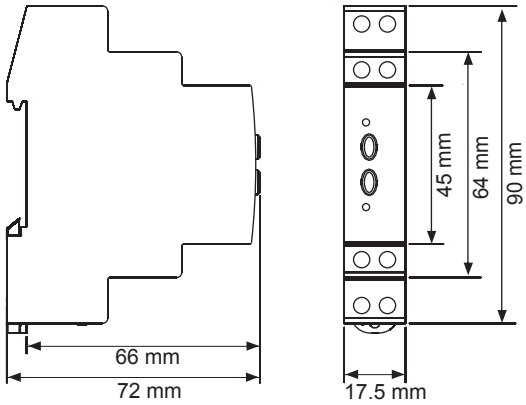
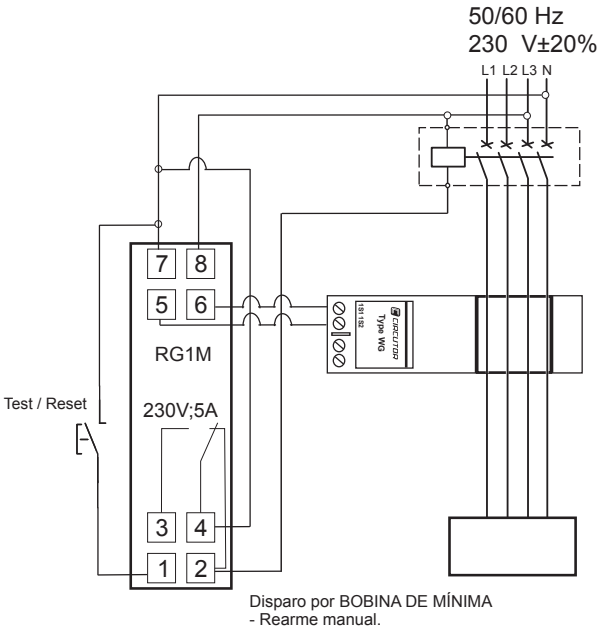
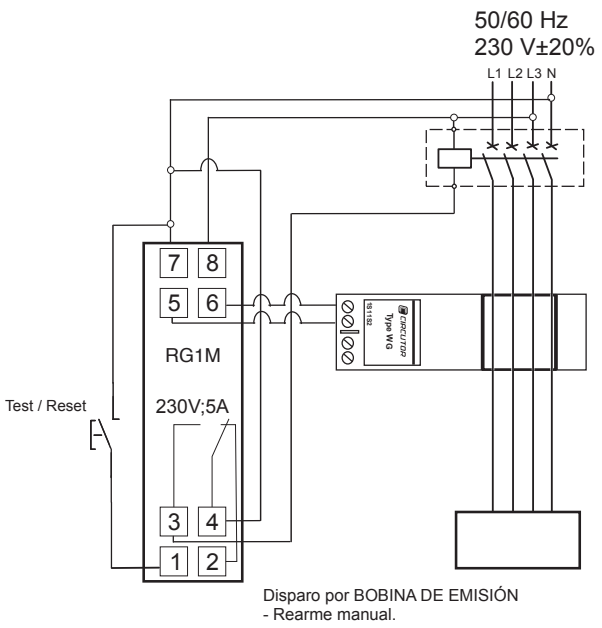
RG1M

Electronic earth leakage relay with external transformer of the WGC series

References

Type	Code	I_n (A)	Delay
RG1M-0,03	P12204	0.03	0.02 s, INS
RG1M-0,3	P12214	0.3	0.02 s, INS

Dimensions



Connections