

RGU-10B

Electronic earth leakage residual current protection and monitoring relay (Type B)



Compatible with **WGC-TB** earth leakage transformers

Description

Electronic earth leakage current protection and monitoring relay (**IEC 62020**) compatible with the protection transformers of the **WGC-TB** series. The **RGU-10B** is the most complete system for monitoring and controlling electrical insulation of type-B installations (**IEC 60755**).

- Electronic relay with relay output.
- Measures in AC, DC or mixed current, type B (**IEC 60755**)
- Measures the intensity of the current by connecting to an earth leakage transformer of the **WGC-TB** series.
- Programmable with backlit LCD display:
 - Trip current (red display when tripped)
 - Parameter programming
 - Instantaneous leakage current
 - Disconnection of external transformer
- Status signalling via 2 LEDs
- Features two independent programmable outputs (main and prealarm).
- Includes a remote-control input.
- Assembly on **DIN 46277** rail (**EN 50022**), 3 modules.

Applications

Monitoring of electrical insulation in:

- single-phase or three-phase AC installations, AC installations with DC components or purely DC installations. With frequencies of up to 1 kHz.

Such as, for example:

- Speed drives
- UPS (Uninterruptible Power Supply systems)
- Photovoltaic installations
- Motor control devices, etc.

Technical features

Monitoring	Type	B (IEC 60755)
	Sensitivity, $I_{\Delta n}$	0.1 ... 3 A
	Delay, t_{Δ}	0.1 ... 10 s
	Earth leakage transformer	External, WGC TB series
	Test and reset	Using buttons T and R
	Remote control	Remote test and reset possible
	Associated signalling element	Visual or acoustic signalling devices
	LED indicators	Power supply voltage Leakage trip Prealarm
	Display	Leakage current (instantaneous value) Trip current (red LCD) Parameter programming WGC-TB transformer disconnection
	Remote signaling	Alarm Prealarm
Control of the display/control element	Via 2 NO/NC switched output relays	
Electrical features	Auxiliary power supply	230 Vac $\pm 20\%$ 50 / 60 Hz, 6 VA
	Output contacts	250 Vac, 6 A
	Operating temperature	-10 °C...+50 °C
Mechanical features	Attachment	DIN 46277 rail (EN 50022)
	Dimensions	3 modules
	Weight	256 g
	Protection degree	IP 20 on terminals, IP 41 on back panel
Standards	IEC 62020, IEC 60755, IEC 60947-2 (anex M)	

RGU-10B

Electronic relay for protection and monitoring earth leakage current intensity (Type B)

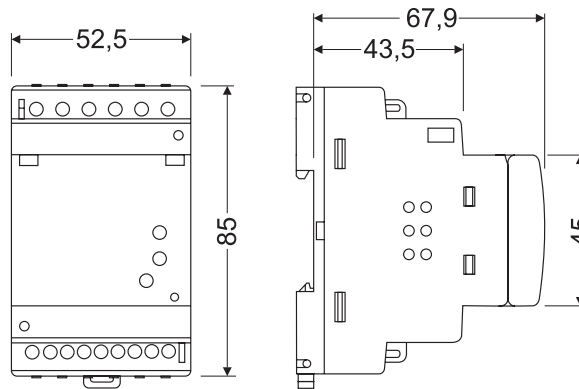
References

Type	Code	Size	$I_{\Delta n}$	Delay, t_{Δ}
RGU-10B	P11951	3 modules	0,1...3 A	0,1...10 s

Transformer references

Type	Code	Net section (mm)	$I_{\Delta n}$ (A) minimum	Weight (g)
WGS-20-TB	P11731	Ø 20	0,1	80
WGC-25-TB	P11751	Ø 25	0,1	86
WGC-35-TB	P11752	Ø 35	0,1	126
WGC-55-TB	P11753	Ø 55	0,3	180
WGC-80-TB	P11755	Ø 80	0,5	321
WGC-110-TB	P11756	Ø 110	0,5	440
WGC-140-TB	P11757	Ø 140	0,5	790
WGC-180-TB	P11758	Ø 180	0,5	1530

Dimensions



Connections

