

WGC-TB



Earth leakage transformers for type-B earth leakage relays

Description

This new range features a series of improvements intended in particular for installing units on switchboards. Along with the usual attachment elements, this unit can be installed on DIN rails using an accessory, which facilitates its installation.

The earth leakage transformers of the **WGC-TB** series offer better immunity to the transient current spikes that usually trigger the earth leakage protection. The earth leakage transformers of the **WGC-TB** series have been designed to operate with the relays of the **WGC-TB** series. The sensitivity (trip current) of the transformer-relay assembly is established by the associated relay. Use only with **RGU-10B** series.

Technical features

Electrical insulation	Safety	IEC 60664-1 / IEC 60664-3
	Maximum assigned service voltage	720 V
	Assigned impulse voltage / pollution	3 kV / III
Measurement circuit	Measurement accuracy	10...15%
	Direct thermal current	6 A
	Thermal short-circuit current, I_{th}	1.8 kA / 1 sec
	Dynamic current, I_{dyn}	2.5 I_{th}
Mechanical features	Terminal protection	IP 20 (IEC 60529)
	Screw-in fasteners	M-5
	DIN rail (with accessory)	See code
	Housing material / colour	Lexan 923 / RAL 7035
	Self-extinguishing class	UL94 V0
	Product standards	IEC 61869-2
Connection	Two wire (S1-S2) connection type	Screw-in terminal (pzl screw)
	Dimensions of rigid/flexible conductors	0.1...2.5 mm ² / 27...12 AWG
Connection to protection and measurement devices (RCD, RCM)	Cabling with wire section ≥ 1 mm ²	0...1 m
	Cabling with braided and shielded wire section ≥ 1 mm ²	0...10 m

References

Type	Code	Size	$I_{\Delta n}$	Delay, t_{Δ}
RGU-10B MRCD	P11951	3 modules	0,1...3 A	0,1...10 s
RGU-10B RCM	P11951000R00	3 modules	0,03...3 A	0,1...10 s

Transformer references

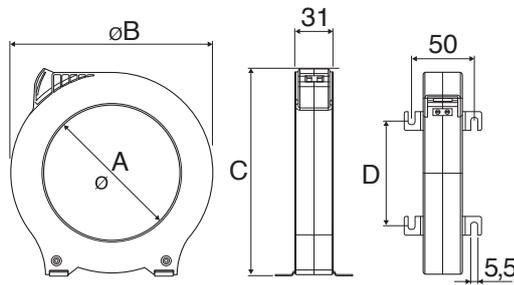
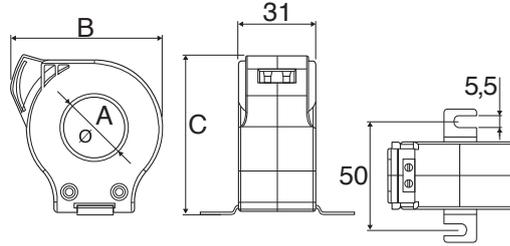
Type	Code	Net section (mm)	$I_{\Delta n}$ (A) minimum	Weight (g)
WGS-20-TB	P11731	Ø 20	0,1*	80
WGC-25-TB	P11751	Ø 25	0,1*	86
WGC-35-TB	P11752	Ø 35	0,1*	110
WGC-55-TB	P11753	Ø 55	0,3	180
WGC-80-TB	P11755	Ø 80	0,5	245
WGC-110-TB	P11756	Ø 110	0,5	335
WGC-140-TB	P11757	Ø 140	0,5	420
WGC-180-TB	P11758	Ø 180	0,5	1530

* $I_{\Delta n}$ (A) = 0,03 A use only with **RGU-10B**.

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Dimensions



Type	A	B	C	D
WGS-TB 25	25	60,5	64	-
WGC-TB 35	35	70,5	75,5	-
WGC-TB 55	55	92	98	38
WGC-TB 80	80	124,5	130	60
WGC-TB 110	110	163	168	84,5
WGC-TB 140	140	201	206	110
WGC-TB 180	180	252	256	144

Connections

RCM (See manual for more connections.)

