

TP816 WGC

TP816 WGC, Residual current transformer

Code: P11151.

> Usefull diam.(mm): 160 x 80
> IΔn (A): acc. relay > 0,3A
> IΔn min.(A): 0.3

Description

The **TP-WGC** series features split-core residual current transformers for the residual current protection of electrical installations or machines. These transformers are used to control and monitor the leakage currents of an electrical installation and are recommended as a temporary solution for punctual residual current protection in parts of the electrical installation that are finished but, due to an error or lack of foresight, do not have the normal protection installed.

TP-WGC transformers have been designed for installation inside an electrical panel or enclosure, mounted with screws or cable ties, facilitating their installation in existing installations.

The residual current transformers of the **TP-WGC** series have been designed to operate with the relays of the **WGC** series. The sensitivity (trip current) of the transformer-relay assembly is established by the associated relay. The relays associated with the **TP-WGC** transformer must be programmed with a minimum sensitivity of 300 mA for residual current protection.

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Specifications

AC power supply, insulation

Pulse test (kV)	3 kV

AC power supply

Frequency	45 ... 60 Hz

Environmental characteristics

Protection class	IP 20 (Terminals) IEC 60529
Relative humidity (without condensation)	95%
Working temperature	-10 ... +50 °C

Mechanical characteristics

Envelope	Self-extinguishing polycarbonate UL 94 V0
Weight (kg)	2,464

Current measurement circuit

Phase current measuring range	0,250 ... 30 A (residuum)
Dynamic current (Idyn)	4,5 kA / 40 ms
Permanent thermal current (Icth)	40 A
Thermal short-circuit current (Ith)	1,8 kA / 1s
Transformation ratio	30 / 0,06 A
Maximum operating voltage (Um)	720 V

Standards

Electrical safety, Maximum height (m)	2000
Electrical safety, Installation category	CAT III 300V ca
Standards	IEC 60529

Measurement accuracy

Accuracy	± 15 %

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Split-core residual current transformers

CODE	TYPE	Usefull diam.(mm)	IΔn (A)
P11121.	TP58 WGC	80 x 50	acc. relay > 0,3A
P11131.	TP88 WGC	80 x 80	acc. relay > 0,3A
P11141.	TP812 WGC	120 x 80	acc. relay > 0,3A

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P11151.	TP816 WGC	160 x 80	acc. relay > 0,3A

Compatible with Type A relays

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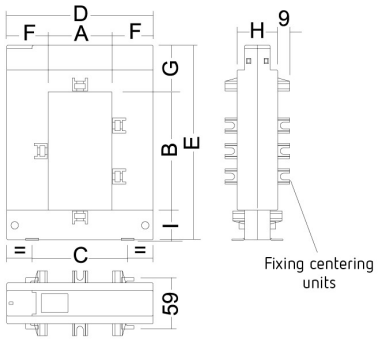


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Dimensions



Dimensions (mm)	TP-58	TP-88	TP-812	TP-816
a	50	80	80	80
b	80	80	120	160
c	78	108	108	120
d	114	144	144	184
e	145	145	185	245
f	32	32	32	52
g	32	32	32	47
h	32	32	32	52
i	32	32	32	38

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