

# TP58 WGC

TP58 WGC, Residual current transformer

Code: P11121.

> Usefull diam.(mm): 80 x 50
> 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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# TP58 WGC

Split-core residual current transformers

Code: P11121.

## 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) | 0,778 |

### 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 % |

**TP-WGC**
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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| CODE | TYPE | Usefull diam.(mm) | IΔn (A) |
|---|---|---|---|
| P11151. | TP816 WGC | 160 x 80 | acc. relay > 0,3A |

Compatible with Type A relays



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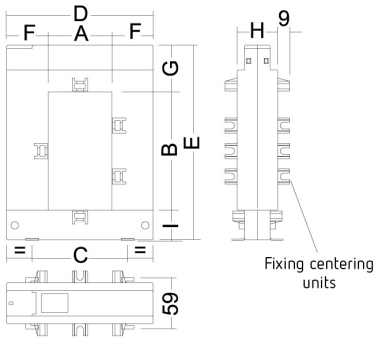
## Dimensions




| 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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