



## WGC-20-SC

WGC-20-SC, Residual current transformer

Code: P10181.

- > Usefull diam.(mm): 20
- > Cable (m): 0.5
- > Max. Current (A): 63

### 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 residual current transformers of the **WGC** series offer better immunity to the transient current spikes that usually trigger the residual current protection. The residual current transformers of the **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.



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## Specifications

### AC power supply, insulation

|                 |      |
|-----------------|------|
| Pulse test (kV) | 3 kV |
|-----------------|------|

### Environmental characteristics

|  |                             |
|--|-----------------------------|
| Protection class                         | IP 20 (Terminals) IEC 60529 |
| Relative humidity (without condensation) | 5 ... 95 %                  |
| Working temperature                      | -20 ... + 70 °C             |

### Mechanical characteristics

|                 |   |
|-----------------|---|
| Envelope        | Self-extinguishing polycarbonate UL 94 V0 |
| Fastening       | DIN rail with accessory                   |
| Connection type | Cable length 0.5 (m)                      |
| Weight (kg)     | 0,075                                     |

### Current measurement circuit

|                                     |             |
|-------------------------------------|-------------|
| Dynamic current (Idyn)              | 2,5 Ith     |
| Permanent thermal current (Icth)    | 6 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                               |
| Standards                                | IEC 60664-1, IEC 60664-3, IEC 61869-2 |

### Measurement accuracy

|          |             |
|----------|-------------|
| Accuracy | 10 ... 15 % |
|----------|-------------|

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| CODE    | TYPE      | Inner diameter (mm) | Cable (m) | In (A) |
|---------|-----------|---------------------|-----------|--------|
| P10181. | WGC-20-SC | 20                  | 0.5       | 63     |
| P10182. | WGC-30-SC | 30                  | 0.5       | 63     |
| P10131. | WGS-20    | 20                  | -         | 63     |
| P10132. | WGS-30    | 30                  | -         | 63     |
| P10151. | WGC-25    | 25                  | -         | 63     |



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| CODE    | TYPE        | Inner diameter (mm) | Cable (m) | In (A) |
|---------|-------------|---------------------|-----------|--------|
| P10152. | WGC-35      | 35                  | -         | 80     |
| P10153. | WGC-55      | 55                  | -         | 160    |
| P10154. | WGC-80      | 80                  | -         | 250    |
| P10155. | WGC-110     | 115                 | -         | 400    |
| P10156. | WGC-140     | 140                 | -         | 600    |
| P10157. | WGC-180     | 180                 | -         | 800    |
| P10158. | WGC-220x105 | 220 x 105           | -         | 1250   |
| P10159. | WGC-350x150 | 350 x 150           | -         | 2000   |
| P10160. | WGC-500x200 | 500 x 200           | -         | 4000   |

UL certification for all WGC and WGS models, on demand



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## Dimensions

