



WGB-80

WGB-80, residual current transformers for type-B residual current relays

Code: P11B54.

- > Usefull diam.(mm): 80.5
- > $I_{\Delta n}$ (A): 0.03 ... 3 A
- > Max. Current (A): 250

Description

The residual current transformers of the **WGB** range are especially designed to protect and monitor B-type loads (**IEC 60755**), and are suitable for measuring AC, DC and pulsating leakage currents.

The range of **WGB** differential transformers is designed for use with the **RGU-100B** or **CBS-400B** electronic relays, which give them the associated trip current (sensitivity).

The transformers have an Ethernet port to connect them using this type of cable with the relay, which transmits all the readings and other information on the protected or monitored line.

Application

Residual current protection or monitoring of single-phase or three-phase electric loads in alternating current with direct current components, with frequencies of up to 1 kHz, such as:

- Variable speed drives.
- UPS.
- Photovoltaic Facilities.
- Electrical Vehicle Charging.
- Active filters.



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Specifications

Electrical characteristics

| | |
|-----------------------|-------|
| Cable: Connector type | RJ 45 |
|-----------------------|-------|

Mechanical characteristics

| | |
|----------------------------------|-----------------------|
| Size (mm) width x height x depth | 140 x 123,5 x 58 (mm) |
| Weight (kg) | 0,525 |

Environmental characteristics

| | |
|---------------------|-----------------|
| Thermal Class | 150 °C |
| Storage temperature | -20 ... + 70 °C |
| Working temperature | -10 ... +50 °C |

Specific technical characteristics of current sensors

| | |
|-----------------------|-----------------------|
| Sampling frequency | 50 ... 1 kHz |
| Maximum current | 250 A |
| Inner diameter Ø (mm) | 80,5 |
| Operating voltage | ≤ 750 V ~ , ≤ 750 Vcc |

Standards

| | |
|---------------------------------------|---------------|
| Electrical safety, Maximum height (m) | 2000 |
| Standards | IEC 60947-2-M |

Measurement accuracy

| | |
|---------------------------|--|
| Phase current measurement | 30 mA (±2 mA) / 100 mA (±5 mA) 300 mA (±20 mA) / 500 mA (±20 mA) / 1 A (±200 mA) / 3 A (±200 mA) |
|---------------------------|--|

WGB

Residual current transformers for type-B relays

| CODE | TYPE | Inner diameter (mm) | IΔn (A) | In (A) |
|---------|---------|---------------------|--------------|--------|
| P11B52. | WGB-35 | 35.5 | 0.03 ... 3 A | 80 |
| P11B53. | WGB-55 | 55.5 | 0.03 ... 3 A | 160 |
| P11B54. | WGB-80 | 80.5 | 0.03 ... 3 A | 250 |
| P11B55. | WGB-110 | 110.5 | 0.03 ... 3 A | 400 |
| P11B56. | WGB-140 | 110.5 | 0.03 ... 3 A | 400 |

Only for relays type RGU-100B and CBS-400B



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Dimensions

