



WGBU-140

WGBU-140, Residual current relay

Code: P16014.

- > Usefull diam.(mm): 140
- > $I_{\Delta n}$ (A): 0,03 ... 3 A
- > Delay: 0,02...1 s
- > Mounting: Panel background

Description

The **WGBU** Series is a compact residual current protection system. It is composed of a toroidal transformer with a built-in residual current relay.

- Multi-range electronic relay
 - The sensitivity can be adjusted to 0.03 ... 3 A
 - Trigger delay of 0.02 ... 1 s, adjustable
- Type A relay with high frequency current filtering and high immunity. Monitoring in true root mean square (TRMS).
- LED indicators:
 - Grid connection LED
 - Pre-alarm and trigger LED: 1 flash every 2 s, leak between 25 and 50 % of the sensitivity selected; 1 flash every 1 s, leak between 50 and 75 % of the sensitivity selected; 1 flash every 0.5 s, leak exceeding 75 % of the sensitivity selected; permanently lit, trigger of the residual current protection.

Application

The WGBU series offers a reliable residual current protection, with simpler cabling and savings in the assembly time. In addition, installation is very simple, thanks to its compact dimensions.



WGBU-140

Transformer with built-in residual current relay.

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Specifications

AC power supply, insulation

| | |
|-------------------|----------|
| Test voltage (kV) | 2,5 kV ~ |
|-------------------|----------|

AC power supply

| | |
|-----------------|-------------------|
| Frequency | 50/60 Hz |
| Nominal voltage | 110/230 V ~ ±20 % |

Mechanical characteristics

| | |
|----------------------------------|---------------------|
| Size (mm) width x height x depth | 286 x 196 x 46 (mm) |
| Fastening | DIN rail |
| Weight (kg) | 1,089 |

Environmental characteristics

| | |
|---------------------|---------------------------------------|
| Protection class | IP 20 (terminals), IP 41 (rear panel) |
| Working temperature | -10 ... +50 °C |

Standards

| | |
|-----------|---|
| Standards | IEC 1008, IEC 255-5, UNE 801-2, UNE 801-3, UNE 801-4, UNE 60730-1 |
|-----------|---|

Other digital relay outputs

| | |
|--------------------|---------------------|
| Insulation voltage | 250 V ~ |
| Electrical life | 2 x 10 ⁵ |

Digital relay outputs

| | |
|-----------------------|-----------------|
| Nominal current | 6 A ~ |
| Nominal voltage | 250 V ~ |
| Resistive load (max.) | 250 Vca / 8 Aca |

Differential protection

| | |
|-----------------------------------|----------------------------|
| Type | Type A ultra-immunised |
| Sensitivity (I _{Δn}), A | 0,03 ... 3 (seleccionable) |
| Delay time (t _Δ) | 0.02... 5 s (selectable) |
| Transformer | Built-in, WG series |

Protection

| | |
|----------------------|--|
| LED indication | Power supply voltage Earth leakage tripping Prealarm |
| Measure | True root mean square (TRMS) |
| Circuit breaker type | Contactors or Circuit Breaker + trigger coil |



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Transformer with built-in residual current relay.

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WGBU

Transformer with built-in residual current relay, type A ultraimmunized

| CODE | TYPE | Usefull diam.(mm) | IΔn (A) |
|---|-------------|-------------------|--------------|
| Relay mounted at 90°. It allows to reduce the mounting space | | | |
| P16021. | WGBU-90-35 | 35 | 0,03 ... 3 A |
| P16022. | WGBU-90-70 | 70 | 0,03 ... 3 A |
| P16023. | WGBU-90-105 | 105 | 0,03 ... 3 A |
| P16024. | WGBU-90-140 | 140 | 0,03 ... 3 A |
| P16025. | WGBU-90-210 | 210 | 0,03 ... 3 A |
| P16011. | WGBU-35 | 35 | 0,03 ... 3 A |
| P16012. | WGBU-70 | 70 | 0,03 ... 3 A |
| P16013. | WGBU-105 | 105 | 0,03 ... 3 A |
| P16014. | WGBU-140 | 140 | 0,03 ... 3 A |
| P16015. | WGBU-210 | 210 | 0,03 ... 3 A |

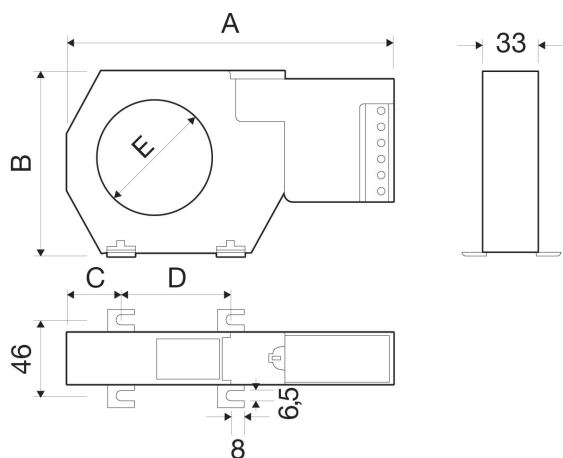


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Dimensions



| TIPO | A | B | C | D | Ø E |
|----------|-----|-----|------|------|-----|
| WGBU-35 | 166 | 79 | 26 | 48,5 | 35 |
| WGBU-70 | 196 | 110 | 32 | 66 | 70 |
| WGBU-105 | 236 | 146 | 38 | 94 | 105 |
| WGBU-140 | 286 | 196 | 48,5 | 123 | 140 |
| WGBU-210 | 365 | 284 | 69 | 161 | 210 |

Connections

