



CBS-4

CBS-4, Station with 4 programmable residual current relays, type A

Code: P12711. **DESCATALOGADO**

- > Módulos: 3
- > Pre-alarm relay: Yes
- > N° relays: 4
- > I Δ n (A): 0,03 ...30 A
- > Power supply (Vac): 230 Vac
- > Delay: 0,02 ... 10 s, INS, SEL
- > Mounting: DIN rail

Description

- Unit equivalent to 4 residual current protection networks. Features 4 independent programmable relays.
- Four inputs for connecting the external toroidal transformers of the **WGC / WGS** series.
- Super-immunized type-A relay with high-frequency current filtering and high immunity. True root mean square (TRMS) measure
- Compact size: 3 modules
- Features 5 independent programmable outputs (4 residual current tripping relays and 1 prealarm relay).

Application

The **CBS-4** multipoint residual current system associated with the **WGC / WGS** transformers offers smart residual current protection. Its design features guarantee maximum security and electrical service continuity, avoiding unwanted tripping. Viewing the instantaneous leakage value on the display, together with the prealarm indicators, makes it possible to obtain information on the status of lines to be protected, and to perform adequate preventive maintenance.

In addition, version **CBS-4 C** features RS-485 communications and, with the PowerStudio software, offers centralised supervision in real time, as well as keeping a log of historical data for future analysis.



CBS-4

Multipoint residual current system for measurement and signalling with external transformer of the WGS / WGS series

Code: P12711.

Specifications

AC power supply

| | |
|-----------------|-----------------------------|
| Consumption | 6 VA |
| Frequency | 50/60 Hz |
| Nominal voltage | 110 - 230 V~ ($\pm 20\%$) |

Mechanical characteristics

| | |
|----------------------------------|-----------------------|
| Size (mm) width x height x depth | 52.5 x 85 x 67.9 (mm) |
| Fastening | DIN rail |
| Weight (kg) | 0,26 |

Environmental characteristics

| | |
|--|---------------------------------------|
| Protection class | IP 20 (terminals), IP 41 (rear panel) |
| Relative humidity (without condensation) | 5 ... 95 % |
| Ambient temperature | -40 ... +85 °C |
| Working temperature | -10 ... +50 °C |

Characteristics solid state contact for pre-alarm

| | |
|--|---|
| | Max. power consumption 230 Vac : 5 VA / Umax. 275 Vac |
|--|---|

Varistor characteristics

| | |
|-----------------|---------|
| Maximum voltage | 275 Vca |
|-----------------|---------|

External reset input for tripping

| | |
|-----------------|-------------|
| Type | Optocoupled |
| Maximum power | 0,7 W |
| Maximum voltage | 230 Vca |

Standards

| | |
|--|--|
| Electrical safety, Maximum height (m) | 2000 |
| Electrical safety, Installation category | CAT III 300V ca |
| Standards | IEC 60947, IEC 60755, IEC 62020, IEC 61008 |

Electrical safety

| | |
|------------|---|
| Insulation | Double-insulated electric shock protection class II (IEC 61010-1) |
|------------|---|

Digital relay outputs

| | |
|---------------------|---------|
| Nominal load in AC1 | 1500 VA |
| Nominal current | 6 A ~ |



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| | |
|-----------------|----------------------|
| Nominal voltage | 250 V ~ |
| Maximum current | 10 A ~ |
| Mechanical life | 10 x 10 ⁶ |

Differential protection

| | |
|-------------------------------|---|
| Type | Type A ultra-immunised |
| Sensitivity (I Δ n), A | 0,03 ... 30 |
| Delay time (t Δ) | Programmable: 0.02 ... 10s Inverse curve: Instantaneous or selective |
| Transformer | External, WG / WGC series |

Protection

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

CBS-4

Ultraimmunized 4 channels residual current relays, type A, 3 modules with display and programmable prealarm output.

| CODE | TYPE | I Δ n (A) | N° relays | Pre-alarm relay | Módulos | Mounting | Delay | Communications | Protocol | Power supply | Usefull diam.(mm) | N° Input channels | Inner diameter (mm) | Cable (m) | In (A) |
|---|-------------|------------------------------|-----------|-----------------|---------|----------|-------------------------|----------------|------------|-------------------------|-------------------|-------------------|---------------------|-----------|--------|
| Possibility UL on demand | | | | | | | | | | | | | | | |
| P11A70. | RGU-10A | 0,03 ... 30 A | 2 | Yes | 3 | DIN rail | 0,1... 5 s, INS, SEL | - | - | 110 ... 230 Vac | | | | | |
| P11A71. | RGU-100A | 0,03 ... 30 A | 2 | Yes | 3 | DIN rail | 0,1... 5 s, INS, SEL | RS-485 | Modbus RTU | 110 ... 230 Vac | | | | | |
| P11A61. | RGU2 | 0,03 ... 5 A | 1 | | | | | | | | | | | | |
| P12231. | RGE-R1 | 0,03 ... 3 A | | | | | | | | | | | | | |
| P12A32. | RGE-RL | 0,03 ... 5 A | 1 | | | | | | | | | | | | |
| P122320040000 | RGE-R | 0,03 ... 5 A | 1 | | | | | | | | | | | | |
| P12204. | RG1M - 0,03 | 0,03 A | 1 | | | | | | | | | | | | |
| P12214. | RG1M - 0,3 | 0,3 A | 1 | | | | | | | | | | | | |
| P12A70. | CBS-40A | 0,03 ... 30 A | 4 | Yes | 3 | | | | | 110 ... 230 V~ | | | | | |
| P12A71. | CBS-400A | 0,03 ... 30 A | 4 | Yes | 3 | | | RS-485 | Modbus/RTU | 110 ... 230 V~ | | | | | |
| P14035. | WRU-10 | 0,03 ... 3 A 0,03 ... 30 A | 1 | | | | | | | | 28 | | | | |
| P14036. | WRU-10-HS | 0,01 ... 0,5 A | 1 | | | | | | | | 28 | | | | |
| Relay mounted at 90°. It allows to reduce the mounting space | | | | | | | | | | | | | | | |
| P16021. | WGBU-90-35 | 0,03 ... 3 A | | | | | | | | | 35 | | | | |
| P16022. | WGBU-90-70 | 0,03 ... 3 A | | | | | | | | | 70 | | | | |
| P16023. | WGBU-90-105 | 0,03 ... 3 A | | | | | | | | | 105 | | | | |
| P16024. | WGBU-90-140 | 0,03 ... 3 A | | | | | | | | | 140 | | | | |
| P16025. | WGBU-90-210 | 0,03 ... 3 A | | | | | | | | | 210 | | | | |
| P16011. | WGBU-35 | 0,03 ... 3 A | | | | | | | | | 35 | | | | |
| P16012. | WGBU-70 | 0,03 ... 3 A | | | | | | | | | 70 | | | | |
| P16013. | WGBU-105 | 0,03 ... 3 A | | | | | | | | | 105 | | | | |
| P16014. | WGBU-140 | 0,03 ... 3 A | | | | | | | | | 140 | | | | |
| P16015. | WGBU-210 | 0,03 ... 3 A | | | | | | | | | 210 | | | | |
| P12B01. | CBS-1600A | | 2 | Yes | 6 | | | RS-485 | Modbus/RTU | 230 V ~ (\pm 15%) | | 16 (A) | | | |
| P10181. | WGC-20-SC | | | | | | | | | | | | 20 | 0.5 | 63 |



CBS-4

Multipoint residual current system for measurement and signalling with external transformer of the WGS / WGS series

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| CODE | TYPE | I _{Δn} (A) | N° relays | Pre-alarm relay | Módulos | Mounting | Delay | Communications | Protocol | Power supply | Usefull diam.(mm) | N° Input channels | Inner diameter (mm) | Cable (m) | In (A) |
|---------|-------------|---------------------|-----------|-----------------|---------|----------|-------|----------------|----------|--------------|-------------------|-------------------|---------------------|-----------|--------|
| P10182. | WGC-30-SC | | | | | | | | | | | | 30 | 0.5 | 63 |
| P10131. | WGS-20 | | | | | | | | | | | | 20 | - | 63 |
| P10132. | WGS-30 | | | | | | | | | | | | 30 | - | 63 |
| P10151. | WGC-25 | | | | | | | | | | | | 25 | - | 63 |
| 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 |
| P11121. | TP58 WGC | acc. relay > 0,3A | | | | | | | | | 80 x 50 | | | | |
| P11131. | TP88 WGC | acc. relay > 0,3A | | | | | | | | | 80 x 80 | | | | |
| P11141. | TP812 WGC | acc. relay > 0,3A | | | | | | | | | 120 x 80 | | | | |
| P11151. | TP816 WGC | acc. relay > 0,3A | | | | | | | | | 160 x 80 | | | | |

For supply voltages other than 230 Vac, please consult us.

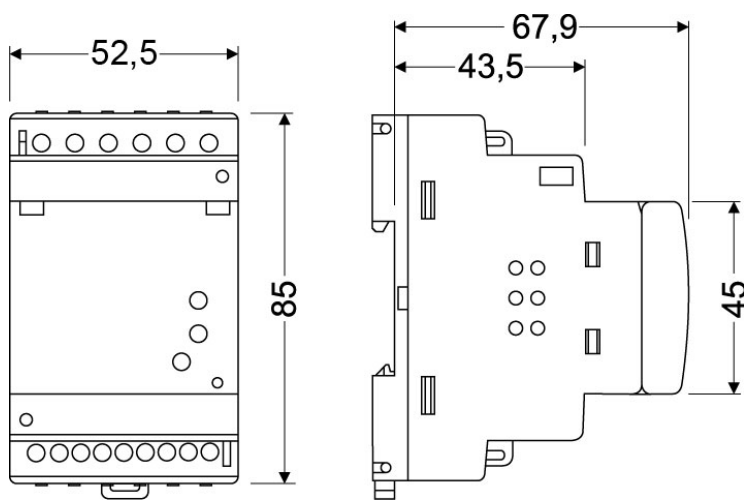


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Dimensions



Connections

