



## CBS-400A

CBS-400A, Station with 4 programmable residual current relays, type A

Code: P12A71.

- > Protocol: Modbus/RTU
- > Módulos: 3
- > Pre-alarm relay: Yes
- > Communications: RS-485
- > N° relays: 4
- >  $I_{\Delta n}$  (A): 0,03 ... 30 A
- > Power supply: 110 ... 230 V~
- > Delay: 0,1 ... 5 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).



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### Specifications

#### AC power supply

|                       |                |
|-----------------------|----------------|
| Installation category | CAT III 300V   |
| Consumption           | 7,5 VA         |
| Frequency             | 50 ... 60 Hz   |
| Nominal voltage       | 110 ... 230 V~ |

#### Mechanical characteristics

|                                  |                               |
|----------------------------------|-------------------------------|
| Size (mm) width x height x depth | 52.5 x 118 x 74 (mm)          |
| Envelope                         | Self-extinguishing V0 plastic |
| Weight (kg)                      | 0,26                          |

#### Environmental characteristics

|  |                      |
|--|----------------------|
| Protection class                         | IP 30, IP 40 (Front) |
| Relative humidity (without condensation) | 5 ... 95 %           |
| Storage temperature                      | -20 ... +70 °C       |
| Working temperature                      | -10 ... +60 °C       |

#### Electrical characteristics

|        |             |
|--------|-------------|
| Sensor | Type A: WGC |
|--------|-------------|

#### Digital inputs

|                         |                        |
|-------------------------|------------------------|
| Input impedance         | 94 kΩ                  |
| Input/output insulation | 3 kV                   |
| Type                    | Potential-free contact |

#### Standards

|  |   |
|--|---|
| Electrical safety, Maximum height (m)        | 2000  |
| Electrical safety, Installation category     | CAT III 300V ~  |
| Electrical safety, Contamination level/class | 2   |
| Standards                                    | IEC 60947-2-M, IEC 62020-1, UNE-EN 60068-2-1, UNE-EN 60068-2-2, UNE-EN 60068-2-78 |

#### User interface

|              |                |
|--------------|----------------|
| LED          | 2              |
| Keyboard     | 3 buttons      |
| Display type | LCD (negative) |

#### Digital relay outputs

|                              |                |
|------------------------------|----------------|
| Quantity                     | 4              |
| Maximum current              | 6 A            |
| Maximum open contact voltage | 230 V ~ ± 15 % |



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|                            |                  |
|----------------------------|------------------|
| Electrical life            | $60 \times 10^3$ |
| Mechanical life            | $10 \times 10^6$ |
| Maximum switching capacity | 1500 VA          |

### Digital transistor outputs

|                 |                    |
|-----------------|--------------------|
| Type            | Optoisolated       |
| Maximum current | 0.1 A              |
| Maximum voltage | 9 ... 48 V ~ / Vcc |

### Differential protection

|                                   |   |
|-----------------------------------|---|
| Type                              | Type A ultra-immunised                    |
| Sensitivity ( $I_{\Delta n}$ ), A | 0.03-0.1-0.3-0.5-1-3-5-10-30 A            |
| Delay time ( $t_{\Delta}$ )       | INS-(S)-0.1-0.2-0.3-0.4-0.5-0.8-1-2-3-5 s |

### Serial communication

|                   |            |
|-------------------|------------|
| Protocol          | Modbus/RTU |
| Technology / Type | RS-485     |

### CBS-40A/400A

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

| CODE    | TYPE     | N° relays | $I_{\Delta n}$ (A) | Módulos | Pre-alarm relay | Power supply   | Communications | Protocol   |
|---------|----------|-----------|--------------------|---------|-----------------|----------------|----------------|------------|
| P12A70. | CBS-40A  | 4         | 0,03 ... 30 A      | 3       | Yes             | 110 ... 230 V~ |                |            |
| P12A71. | CBS-400A | 4         | 0,03 ... 30 A      | 3       | Yes             | 110 ... 230 V~ | RS-485         | Modbus/RTU |

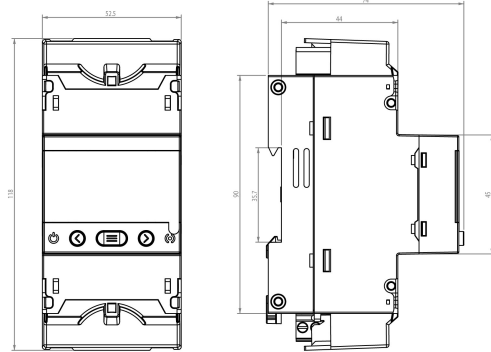
For supply voltages other than 230 Vac, please consult us.



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## Dimensions



## Connections

