

CBS-4C-RA

CBS-4C-RA, Central residual current protection

Code: P24912.

> Communications: RS-485
> N° relays: 4
> IΔn (A): 0,03 ... 30 A
> Delay: 0,02...10 s, INS, SEL
> Nr. reclosures: Programmable
> Breaking element: Contactor
> Type of protection: Type A

Description

Unit equivalent to 4 residual current protection relays. 4 independent programmable relays available

4 inputs to connect the external toroidal transformers of the **WG / WGS / WGC**

Self-reclosing with programmable residual current trip in each channel

Superimmunized Type A relay with high frequency current filtering and high immunity. Monitoring in true root mean square (TRMS)

Reduced size: 3 modules

5 independent programmable outputs:

- 4 residual current trip outputs
- 1 end-of-reclosing-sequence interlocking output

Backlight display to show the information of the 4 channels:

- Adjustment values
- Instantaneous leakage current

Trip/external reset input

Automatic test of the connection and status of each external transformer

Optional RS-485 Communications: type **CBS-4C RA** and **CBS-4C RAL**

Assembly on DIN rail 46277 (**EN-50022**)

Optional assembly on 72 x 72 panel with accessory **M5ZZF1**.

Application

CBS-4 RA or CBS-4 RAL allow an intelligent residual current protection, with greatly reduced dimensions. A contactor is available per channel, enabling the automatic reclosure after a trip, thus offering the most adequate solution for public lighting, cash machines, refrigeration chambers, traffic lights, etc. In addition, version CBS-4 C, with RS-485 communications, is used with the Power Studio software and it adds the centralised supervision in real-time, as well as a record log that can be analysed later on.

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CBS-4C-RA

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

Code: P24912.

Specifications

AC power supply

Consumption	6 VA
Frequency	50/60 Hz
Nominal voltage	230 V~ (± 20 %)

Mechanical characteristics

Size (mm) width x height x depth	52.5 x 85 x 67.9 (mm)
Envelope	Polycarbonate V0
Fastening	DIN (IEC 60715)
Weight (kg)	0,28

Environmental characteristics

Protection class	IP 41 (front), IP 20 (side and rear cover)
Relative humidity (without condensation)	5 ... 95 %
Storage temperature	-20 ... +55 °C
Working temperature	-10 ... +50 °C

Varistor characteristics

Maximum voltage	275 V~

External reset input for tripping

Type	Optocoupled
Maximum power	0,7 W
Maximum voltage	230 V~ ±20 %

Standards

Electrical safety, Maximum height (m)	2000
Standards	IEC 60947-2-M, IEC 62020, IEC 61008-1

User interface

LED	2
Keyboard	7 keys
Display type	LCD

Digital relay outputs

Nominal load in AC1	1500 VA
Nominal current	6 A ~
Nominal voltage	230 V ~

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

Code: P24912.

Maximum current	10 A ~

Differential protection

Type	Type A ultra-immunised
Sensitivity (IΔn), A	0,03 ... 30
Delay time (tΔ)	Programmable: 0.02 ... 10s Inverse curve: Instantaneous or selective
Transformer	External, WG (WG/WGS/WGC) series

Protection

Measure	True root mean square (TRMS)
Circuit breaker type	Contactor

Serial communication

Protocol	Modbus/RTU
Technology / Type	RS-485

CBS4-RA

Type A ultraimmunized 4 channels residual current relay with reconnection

CODE	TYPE	IΔn (A)	Breaking element
P24911.	CBS-4 RA	0,03 ... 30 A	Contactor
P24912.	CBS-4C-RA	0,03 ... 30 A	Contactor

Requires an residual current transformer, WGC type (not included). The breaking element to be associated must be a contactor not included.
To encode other parameters, see the table at the end of the section

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

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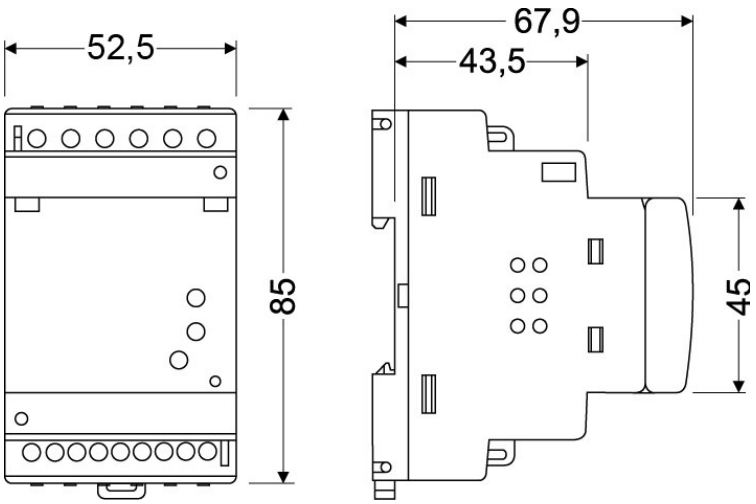
Dimensions



Connections

