



CBS-4C-RA, Central residual current protection

Code: P24912.

> Communications: RS-485

> Nº relays: 4

> I∆n (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:

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

Backlight display to show the information of the 4 channels:

- o Adjustment values
- o 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.







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

Code: P24912.

Specifications

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	
/aristor characteristics		
Maximum voltage	275 V~	
External reset input for tripping		
Туре	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	
Jser interface		
LED	2	
Keyboard	7 keys	
Display type	LCD	
Digital relay outputs		
Nominal load in AC1	1500 VA	
	6 A ~	
Nominal current	0 A ~	







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

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Maximum current	10 A ~
Differential protection	
Туре	Type A ultra-immunised
Sensitivity (I∆n), 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

Central protection and residual current reclosing with WGC external transformer

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







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

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Dimensions Connections







