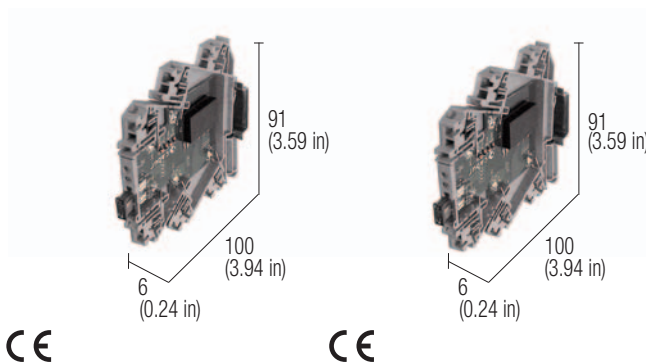


## 24 Vdc relay modules

### CKR series

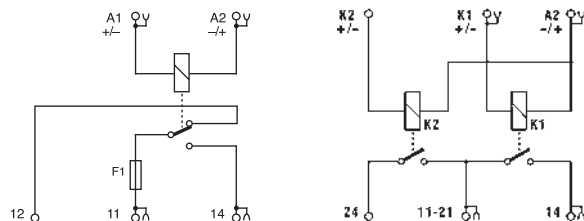
- Built-in replaceable contact protection fuse
- AC/DC common negative or positive input
- Status LED display, reverse polarity protection, crow-bar diode
- 6 mm wide
- Plug-in jumper available



#### NOTES

- (1) The contact rated voltage is 250 Vac; max operating voltage of the contact of the module is 50 Vac-Vdc, limited by the voltage ratings of the adopted type of fuse, which is rated for  $\leq 50$  Vac-75 Vdc SELV voltages; WARNING: if used with higher voltage, it does not guarantee breaking power and thus safety, and IP protection degree is lowered to IP 00; fuses with higher current ratings are not allowed and do not protect the contact against short circuit and overcurrents
- (2) Version available upon request.
- (3) In order to assure the IP20 protection degree, the last module must be protected and insulated using the CK/PT end section.

#### BLOCK DIAGRAM



#### VERSIONS

- 1 channel  
2 channels

#### Cat. No. XCKR16

CKR16

#### Cat. No. XCKR25

CKR25

#### INPUT TECHNICAL DATA

- Rated voltage  
Rated current (1 channel)  
Turn ON time  
Turn OFF time  
Protection circuit

24 Vac/dc  $\pm 10\%$

$\leq 15$  mA  $\pm 10\%$  @ 24 Vdc

5 ms

10 ms

bridge rectifier

24 Vac/dc  $\pm 10\%$

$\leq 13$  mA  $\pm 10\%$  @ 24 Vdc

5 ms

10 ms

bridge rectifier

#### OUTPUT TECHNICAL DATA

- Type and number of contacts  
Nominal current (resistive load)  
Current breaking power  
Current of the fuse max.

SPDT AgSnO<sub>2</sub>

6 A / 250 Vac

30 A

—

2PST (NO) AgSnO<sub>2</sub>

5 A / 250 Vac

30 A

—

#### GENERAL TECHNICAL DATA

- Operating temperature  
Coil/contact isolation  
Isolation between output terminals  
Protection degree  
Overvoltage category / pollution degree  
Reference Standard  
Status display  
Connection terminals  
Housing material  
Approx. weight  
Mounting information  
Mounting information

-20...+60°C

3 kVac / 60 s

—

IP 20 IEC529, EN60529

II / 2

IEC 664-1, DIN VDE 0110.1

green LED

2.5 mm<sup>2</sup> AWG26-14 fixed spring type

polyamide UL94V-0

40 g (1.41 oz)

vertical on rail adjacent without gap

-20...+60°C

3 kVac / 60 s

—

IP 00 IEC529, EN60529

II / 2

IEC 664-1, DIN VDE 0110.1

green LED

2.5 mm<sup>2</sup> AWG26-14 fixed spring type

polyamide UL94V-0

43 g (1.52 oz)

vertical on rail adjacent without gap

#### ACCESSOIRES DE MONTAGE

- Mounting rail type according to IEC60715/TH35  
Mounting rail type according to IEC60715/G32  
Replacement relay (1)  
Plug-in jumper —  
Marking tags blank  
End plate

#### PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB

Cat. No. PTCK42 (42 poles)

Cat. No. NU0851

Cat. No. XCKPT

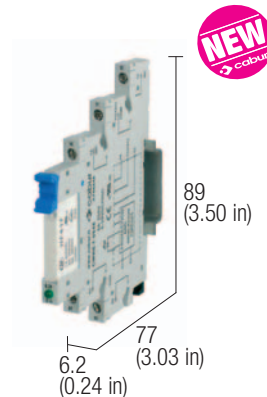
Cat. No. PTCK42 (42 poles)

Cat. No. NU0851

Cat. No. XCKPT

# Relay modules AC/DC input series CWRE

- Pluggable relay
- Status LED display
- 6.2 mm wide
- Plug-in jumper available



## NOTES

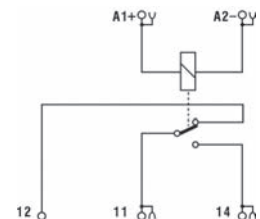
The height dimension includes 35 mm DIN rail.

- (1) Version available upon request; for information call our sales department, local agent or representative.
- (2) Relay model is not binding, they may be modified without prior warning. The technical data shown here is to be considered typical.

## APPLICAZIONI

The CWRE series is suitable for the commutation of signals and is equipped with a pull-out relay to make the maintenance operations easy. Furthermore this series offers the possibility to execute the parallel on both the input and output side by the means of a proper comb jumper.

## BLOCK DIAGRAM



VERSIONS	Cat. No. X766848	Cat. No. X766842	Cat. No. X766845	Cat. No. X766846	Cat. No. X766847
12 Vac/dc	CWRE7-0848				
24Vac/dc		CWRE7-0842			
48 Vac/dc (1)			CWRE7-0845 (1)		
115 Vac/dc				CWRE7-0846	
230 Vac/dc					CWRE7-0847
INPUT TECHNICAL DATA					
Rated voltage	12 Vac/dc ±10%	24 Vac/dc ±10%	48 Vac/dc ±10%	115 Vac/dc ±10%	230 Vac/dc ±10%
Rated current (1 channel)	10 mA ±10%	7 mA ±10%	5 mA ±10%	4 mA ±10%	4 mA ±10%
Turn ON time	8 ms	8 ms	7 ms	8 ms	8 ms
Turn OFF time	5 ms	5 ms	7 ms	13 ms	13 ms
Protection circuit	damping diode and bridge rectifier				
OUTPUT TECHNICAL DATA					
Type and number of contacts	SPDT AgSnO <sub>2</sub> (3)				
Nominal current (resistive load)	6 A / 250 Vac ; 6 A / 30 Vdc				
Current breaking power	DC 13: 24 V / 1A; 115V / 200 mA; 230 V / 100 mA				
Current of the fuse max.	—				
GENERAL TECHNICAL DATA					
Operating temperature	-40...+70°C				
Coil/contact isolation	4 kVac / 60 s				
Isolation between output terminals	1 kVac / 60 s (between open contact)				
Protection degree	IP 20 IEC 529, EN60529				
Overvoltage category / pollution degree	III / 2				
Reference Standard	IEC 664.1, DIN VDE 0110.1				
Status display	green LED				
Connection terminals	2.5 mm² fixed screw type AWG26-14				
Housing material	UL94V-0 plastic material				
Approx. weight	35 g (1.23 oz)				
Mounting information	vertical on rail adjacent without gap				
MOUNTING ACCESSORIES					
Mounting rail type according to IEC60715/TH35-7.5	PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB				
Mounting rail type according to IEC60715/G32	—				
Replacement relay (2)	Cat. No. 8904027				
Plug-in jumper	—				
black	—				
white	—				
blue	CWBK7-0813 (Cat. No. X766813) (20 poli)				

## Plug-in jumper for CK series

**Notes:**

- (1) Example of a pre-cut 9 position jumper
- (2) CK/PT end section must be mounted on last module to assure IP20 protection degree
- (3) 32 A is the maximum current; however this value is limited by the rated current of the spring-clamp terminal blocks down to 24 A; for instance, having a jumper of 11 poles (1 for common and 10 for distribution) a current of 2.4 A can be distributed on every poles



VERSIONS	Item	Cat. No.
	PTC/CK/42	PTCCK42
GENERAL TECHNICAL DATA		
Protection degree (2)	IP20 IEC529; EN60529	
Number of poles	42	
Pitch	6 mm (0.24 in)	
Rated current carrying capacity of jumper (3)	32 A	
Insulation color	—	
Material	tin copper alloy	
Approx. weight	27 g (0.95 oz) (42 poles)	

## Plug-in jumper for CW..7 series



VERSIONS	Item	Cat. No.	Item	Cat. No.	Item	Cat. No.
	CWBK 7-0802	X766802	CWBK 7-0803	X766803	CWBK 7-0804	X766804
GENERAL TECHNICAL DATA						
Protection degree	IP20 IEC529; EN60529		IP20 IEC529; EN60529		IP20 IEC529; EN60529	
Number of poles	16		16		16	
Pitch	6.2 mm (2.44 in)		6.2 mm (2.44 in)		6.2 mm (2.44 in)	
Rated current carrying capacity of jumper	16 A		16 A		16 A	
Insulation color	red		white		blue	
Material	—		—		—	
Approx. weight	4 g (0.14 oz)		4 g (0.14 oz)		4 g (0.14 oz)	

## Plug-in jumper for CWRE series



VERSIONS	Item	Cat. No.
	CWBK 7-0813	X766813
GENERAL TECHNICAL DATA		
Protection degree	IP20 IEC529; EN60529	
Number of poles	20	
Pitch	6.2 mm (2.44 in)	
Rated current carrying capacity of jumper	16 A	
Insulation color	blue	
Material	—	
Approx. weight	6 g (0.21 oz)	