

## Solid-state relays - ST-OV4- 24DC/ 24DC/4-PRO - 2905585

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Plug-in power protective circuit solid-state relay, with signal logic, can be plugged into 4-pos. basic terminal blocks, input: 24 V DC, output: short-circuit-proof, 18 - 36 V DC/4 A


The figure shows the version ST-OV4- 24DC/24DC/1-PRO

### Your advantages

- Feedback in the event of an error
- Reliable detection and indication of an open circuit on the load side
- Time-dependent overload shutdown for reliable protection against continuous overloads
- Fast short circuit shutdown with simultaneous current limitation
- After an overload or short-circuit has been triggered, a defined reset of the control voltage must be carried out
- Brief inrush peaks are ignored



### Key Commercial Data

Packing unit	10 pc
GTIN	 4 017918 107611
GTIN	4017918107611

### Technical data

#### Dimensions

Width	27 mm
Height	63.5 mm
Depth	114 mm

#### Ambient conditions

Ambient temperature (operation)	0 °C ... 60 °C
Ambient temperature (storage/transport)	0 °C ... 70 °C

#### Input data

Nominal input voltage $U_N$	24 V DC
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## Technical data

### Input data

Input voltage range in reference to $U_N$	0.5 ... 1.5
Input voltage range	12 V DC ... 36 V DC
Switching threshold "0" signal, voltage	5 V DC
Switching threshold "1" signal voltage	8.5 V DC
Typical input current at $U_N$	6.5 mA
Typical response time	300 $\mu$ s
Typical turn-off time	700 $\mu$ s
Status display	Yellow LED
Operating voltage display	Yellow LED
Type of protection	Reverse polarity protection
Protective circuit/component	Polarity protection diode
Transmission frequency	100 Hz

### Output data

Output voltage range	18 V DC ... 36 V DC
Limiting continuous current	4 A (see derating curve)
Min. load current	1 mA
Current limitation at short-circuits	approx. 70 A
Voltage drop at max. limiting continuous current	200 mV
Output circuit	3-conductor, ground-referenced
Indication	Red LED
Type of protection	Reverse polarity protection
	Free-wheeling diode
Protective circuit/component	Damping diode
Output voltage range	5 V DC ... 36 V DC
Limiting continuous current	50 mA
Voltage drop at max. limiting continuous current	$\leq 1.5$ V
Output circuit	2-wire, floating
Type of protection	Reverse polarity protection
Protective circuit/component	Polarity protection diode

### General

Test voltage input/output	2.5 kV AC
Test voltage output/output	2.5 kV AC
Mounting position	any
Assembly instructions	In rows with zero spacing
Standards/regulations	IEC 60664
	EN 50178

### Standards and Regulations

Standards/regulations	IEC 60664
	EN 50178

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## Technical data

### Standards and Regulations

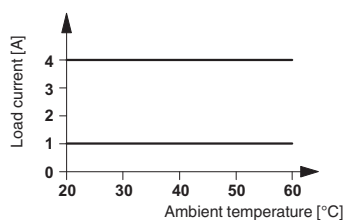
Insulation	Basic insulation
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### Environmental Product Compliance

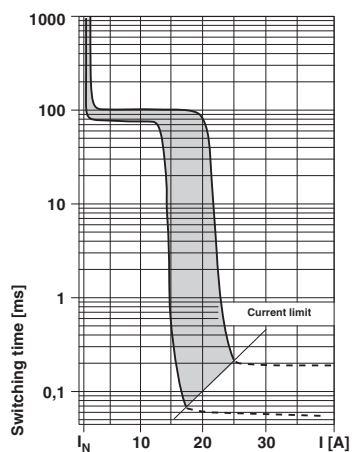
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

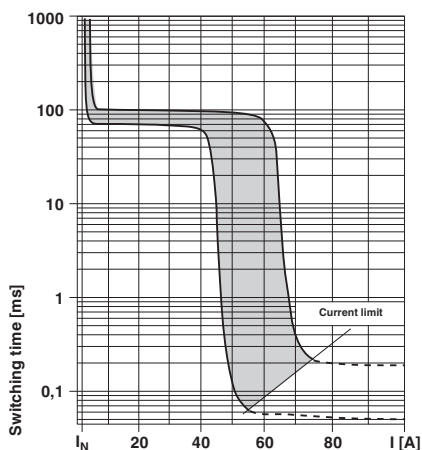
Diagram



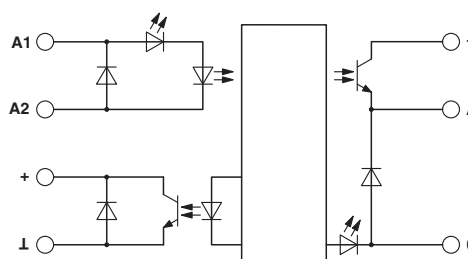
Diagram



Diagram



Circuit diagram



1 = protection and signal logic

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PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>