

# ST-OV4- 24DC/ 24DC/4-PRO - Solid-state relay

2905585

<https://www.phoenixcontact.com/us/products/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
- Safe detection and signaling of a wire break 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

## Commercial data

Item number	2905585
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK61B2
GTIN	4017918107611
Weight per piece (including packing)	35.72 g
Weight per piece (excluding packing)	35.72 g
Customs tariff number	85364190
Country of origin	DE

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## Technical data

### Product properties

Product type	Single solid-state relay
Insulation characteristics	
Insulation	Basic insulation
Data management status	
Date of last data management	01.04.2026

### Electrical properties

Test voltage (Input/output)	2.5 kV AC (Input/output)
Test voltage (Output / output)	2.5 kV AC (Output / output)

### Input data

Nominal input voltage $U_N$	24 V DC
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	LED (yellow)
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection; Polarity protection diode
Transmission frequency	100 Hz

### Output data

Design of digital output	electronic
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
Error indication	Red LED
Protective circuit	Reverse polarity protection Freewheeling diode; Freewheeling diode
Wire-break message for load current	< 100 $\mu$ A
Overload disconnection (~ 1.4 x continuous current)	$\leq$ 100 ms (See the time-current characteristic curve)
Short-circuit disconnection	< 200 $\mu$ s (See the time-current characteristic curve)
Output voltage range	5 V DC ... 36 V DC

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Limiting continuous current	50 mA
Voltage drop at max. limiting continuous current	≤ 1.5 V
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection; Polarity protection diode

## Dimensions

Width	27 mm
Height	63.5 mm
Depth	114 mm

## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

Standards/regulations	IEC 60664
	EN 50178

## Mounting

Assembly note	in rows with zero spacing
Mounting position	any

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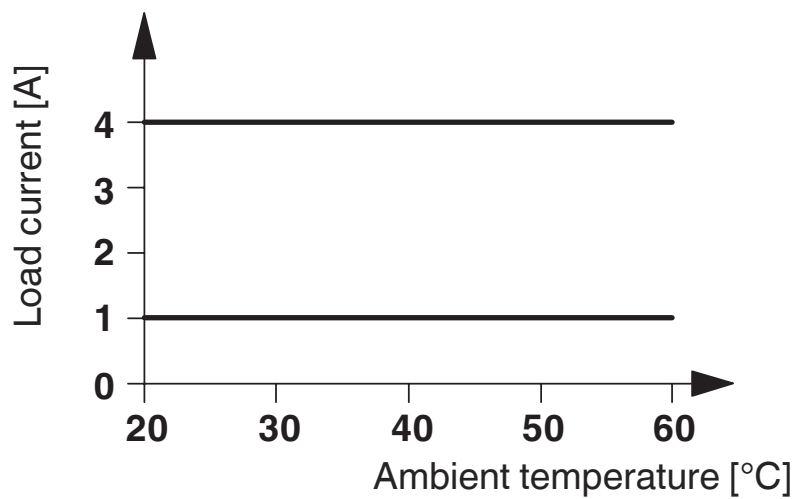


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## Drawings

Diagram



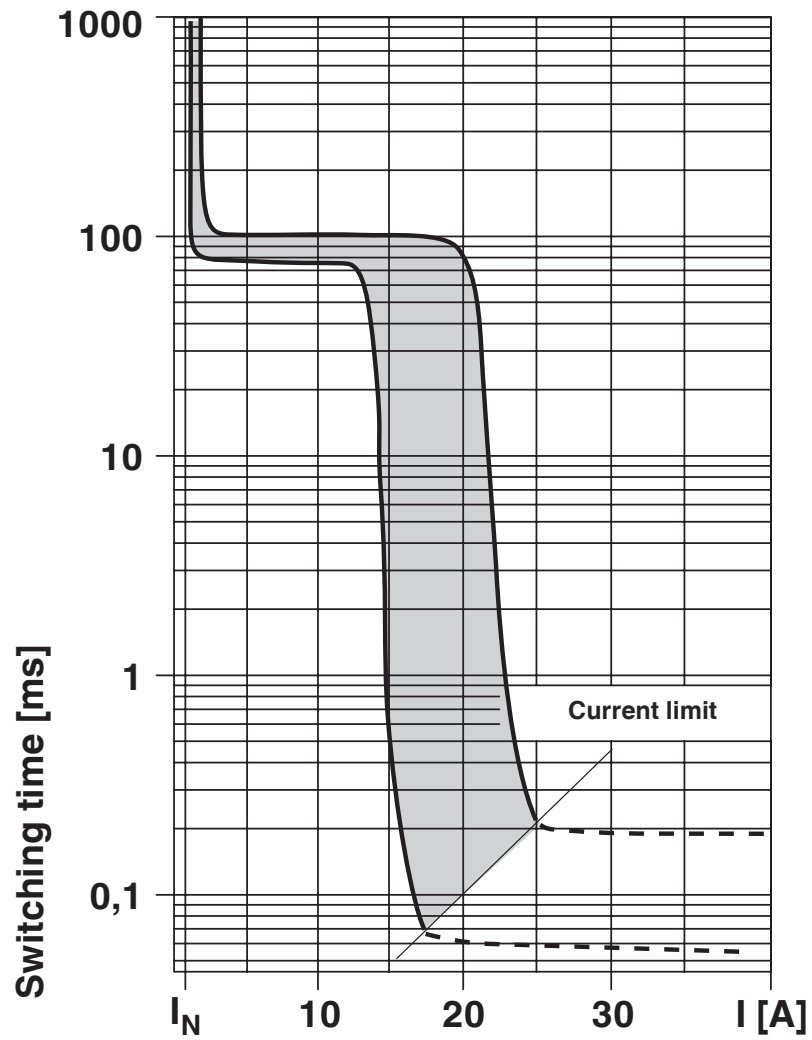
# ST-OV4- 24DC/ 24DC/4-PRO - Solid-state relay

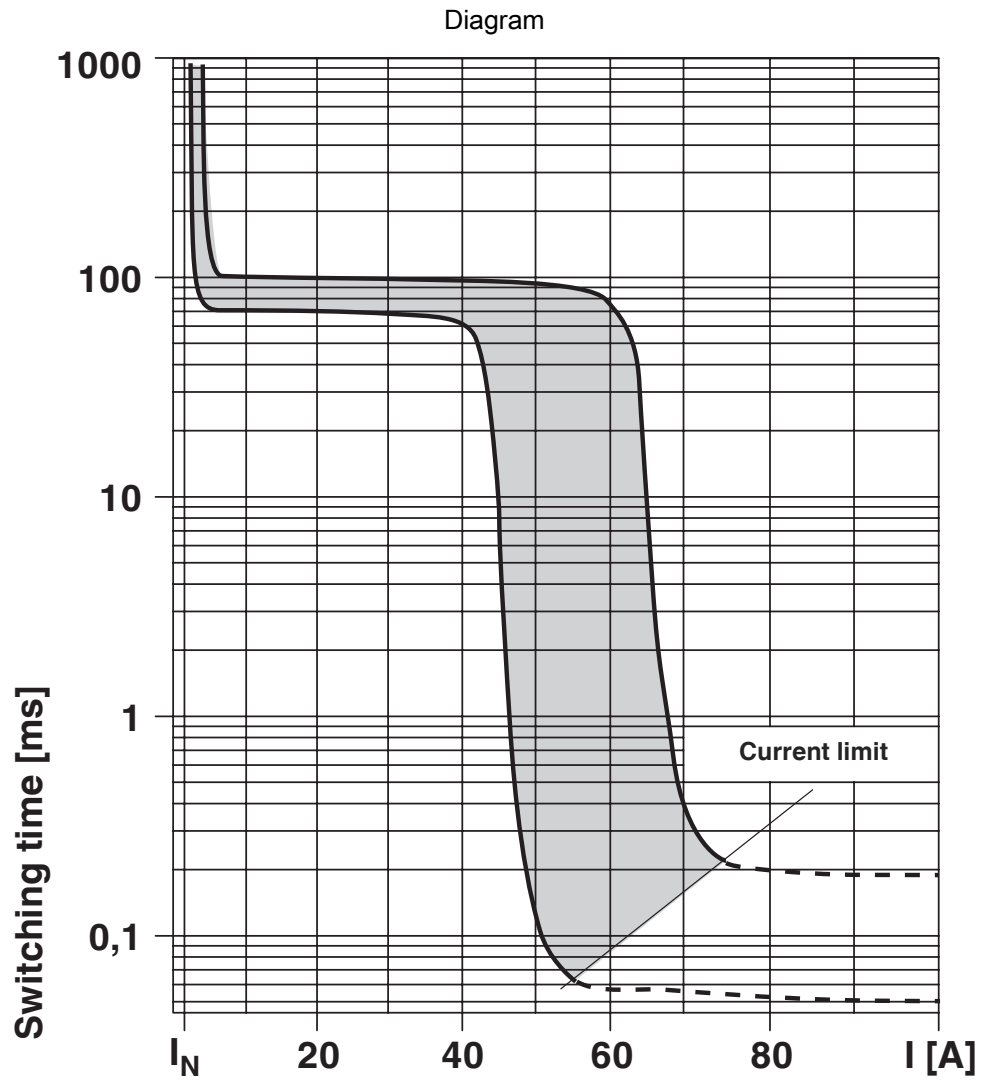
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Diagram



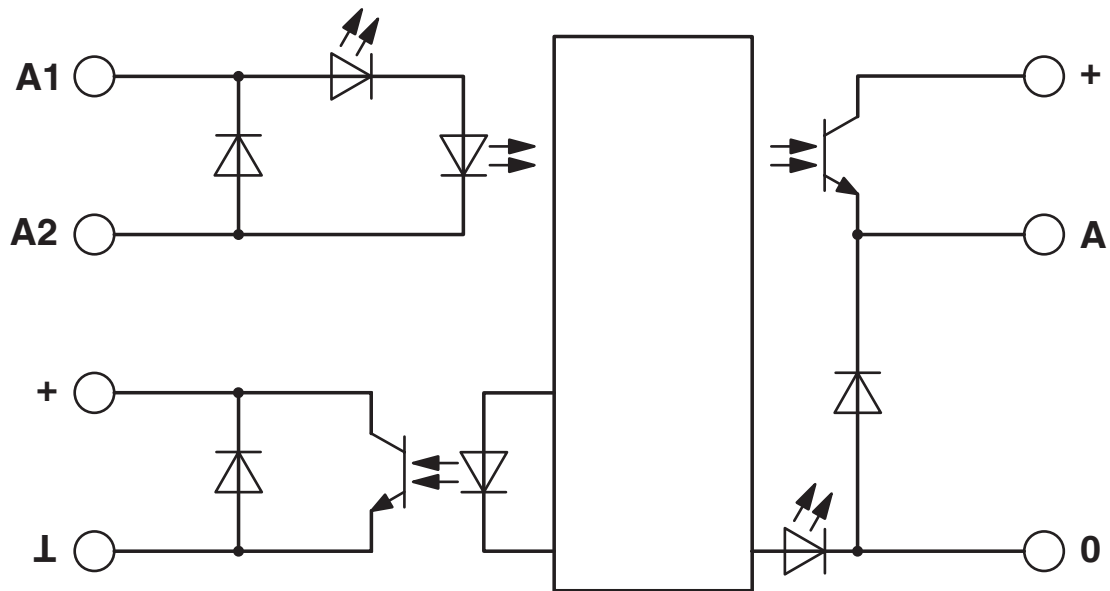


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Circuit diagram



1 = protection and signal logic

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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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