

# ST-OV3- 12DC/ 24DC/2 - Solid-state relay

2905187

<https://www.phoenixcontact.com/us/products/2905187>



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Plug-in power solid-state relay, with LED and protective circuit in input and output circuits, input: 12 V DC, output: short-circuit-proof, 10 - 30 V DC/max. 2 A, can be plugged into basic terminal blocks

## Commercial data

Item number	2905187
Packing unit	10 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK61B1
GTIN	4017918079321
Weight per piece (including packing)	28.78 g
Weight per piece (excluding packing)	30.23 g
Customs tariff number	85364190
Country of origin	DE

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## Technical data

### Product properties

Product type	Single solid-state relay
Data management status	
Date of last data management	05.09.2025

### Electrical properties

Test voltage (Input/output)	2.5 kV AC (Input/output)
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### Input data

Nominal input voltage $U_N$	12 V DC
Input voltage range in reference to $U_N$	0.8 ... 1.2
Input voltage range	9.6 V DC ... 14.4 V DC
Switching threshold "0" signal, voltage	$\leq 4.2$ V
Switching threshold "1" signal voltage	$\geq 4.8$ V
Typical input current at $U_N$	5 mA
Typical response time	17 $\mu$ s
Typical turn-off time	104 $\mu$ s
Status display	LED (yellow)
Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection
Transmission frequency	1000 Hz

### Output data

Design of digital output	electronic
Output voltage range	10 V DC ... 30 V DC
Limiting continuous current	2 A (see derating curve)
Peak offstate voltage	35 V DC (Collector-emitter reverse voltage)
Voltage drop at max. limiting continuous current	1.5 V
Output circuit	3-conductor, ground-referenced
Status display	LED (red)
Protective circuit	Reverse polarity protection; Polarity protection diode
	Free running; Freewheeling diode

### Dimensions

Width	20.8 mm
Height	33 mm
Depth	66.5 mm

### Material specifications

Color	green (RAL 6021)
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## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

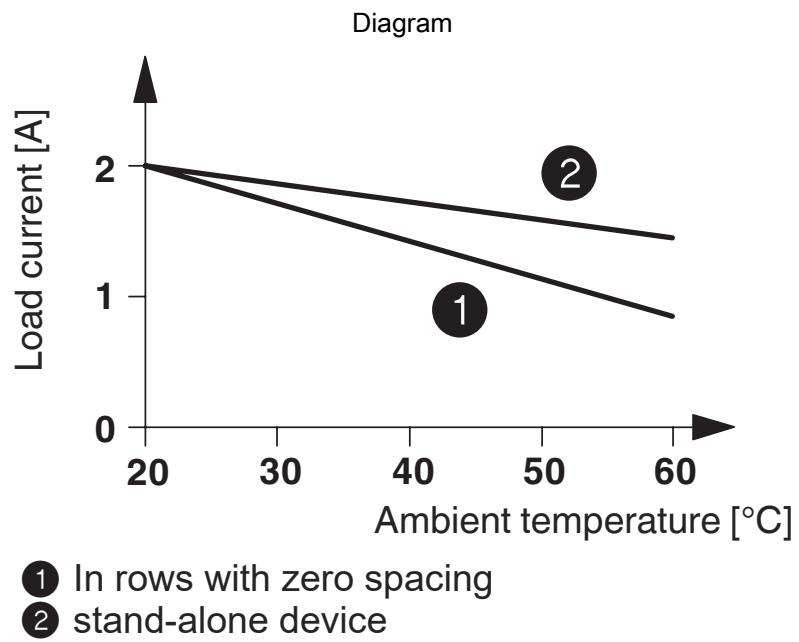
## Standards and regulations

Standards/regulations	DIN VDE 0110
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## Mounting

Mounting position	any
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## Drawings



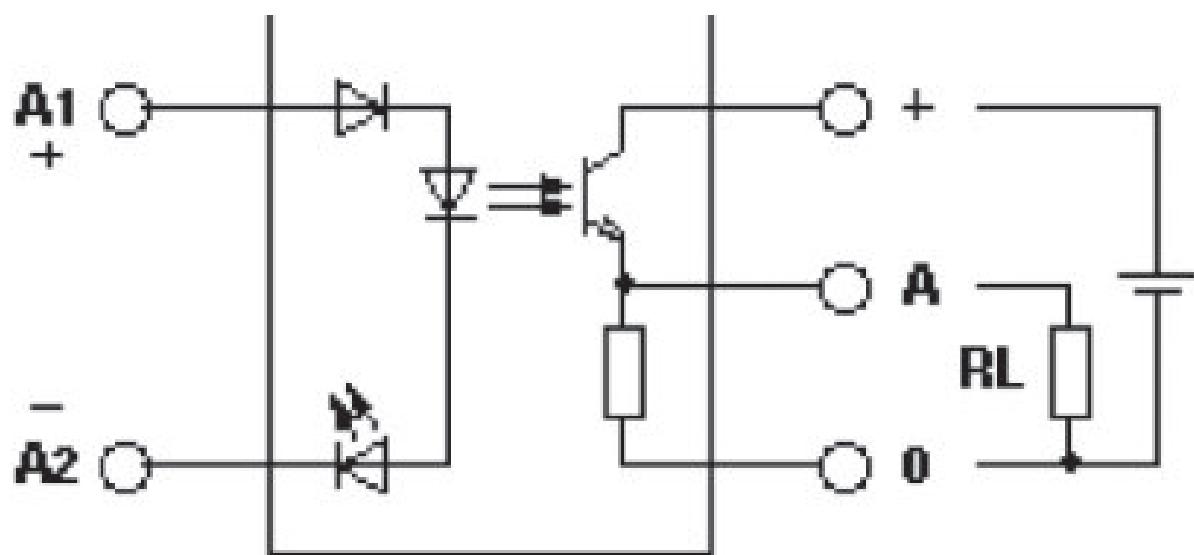
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Circuit diagram



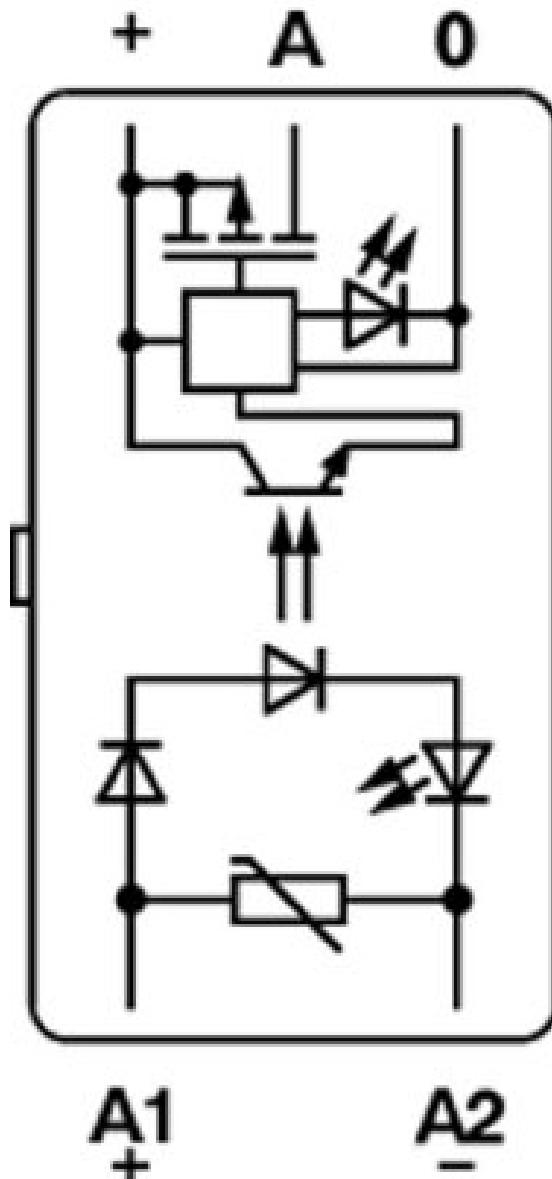
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Circuit diagram



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## Classifications

### ECLASS

ECLASS-13.0	27371604
ECLASS-15.0	27371604

### ETIM

ETIM 9.0	EC001504
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### UNSPSC

UNSPSC 21.0	39122300
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### 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.)	Lead(CAS: 7439-92-1)
SCIP	91dc3c30-1d40-4b4e-8180-08273a10c358

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