

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

The figure shows version ST-OV
3- 5 DC/24 DC/2

Commercial data

Item number	2905187
Packing unit	10 pc
Minimum order quantity	1 pc
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
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Data management status

Date of last data management	01.04.2026
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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	≤ 4.2 V
Switching threshold "1" signal voltage	≥ 4.8 V
Typical input current at U_N	5 mA
Typical response time	17 μ s
Typical turn-off time	104 μ 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

Item 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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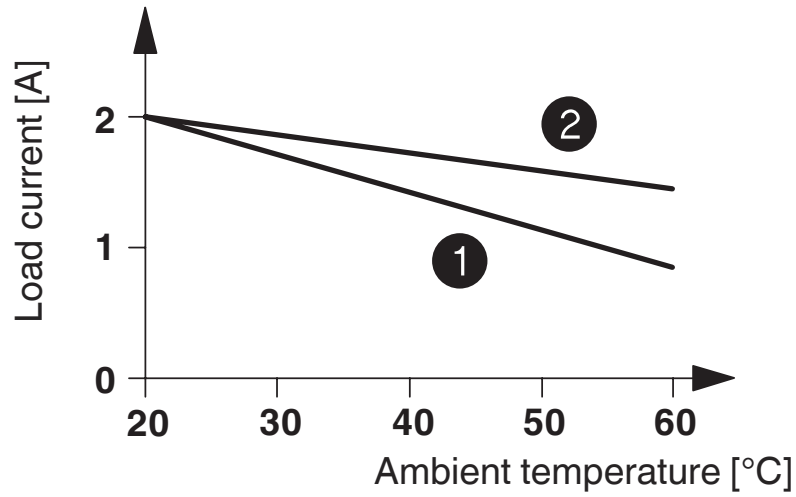
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Drawings

Diagram



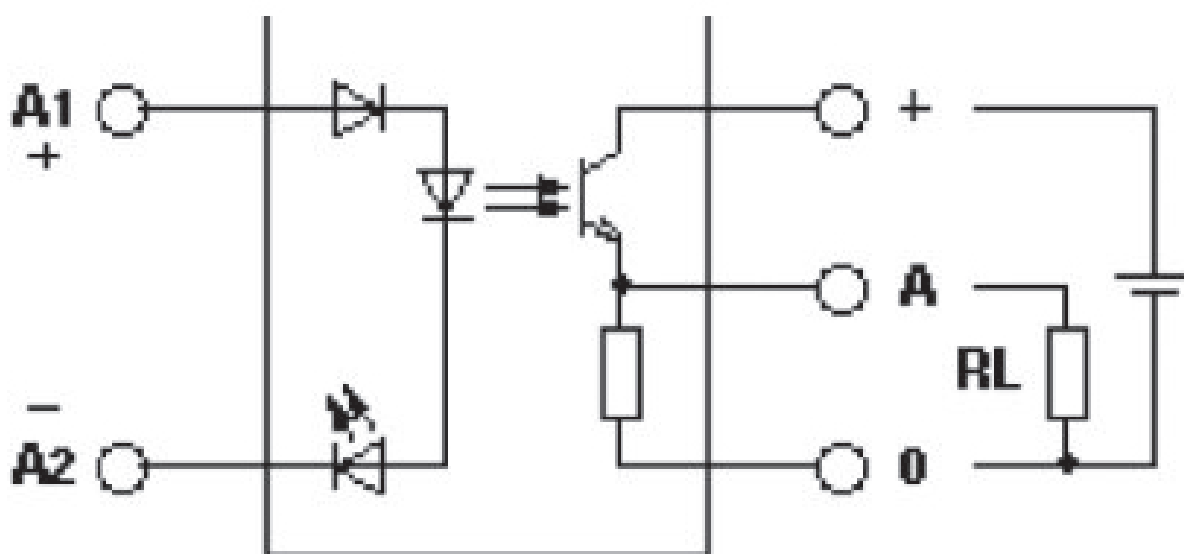
- ① In rows with zero spacing
- ② stand-alone device

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Circuit diagram



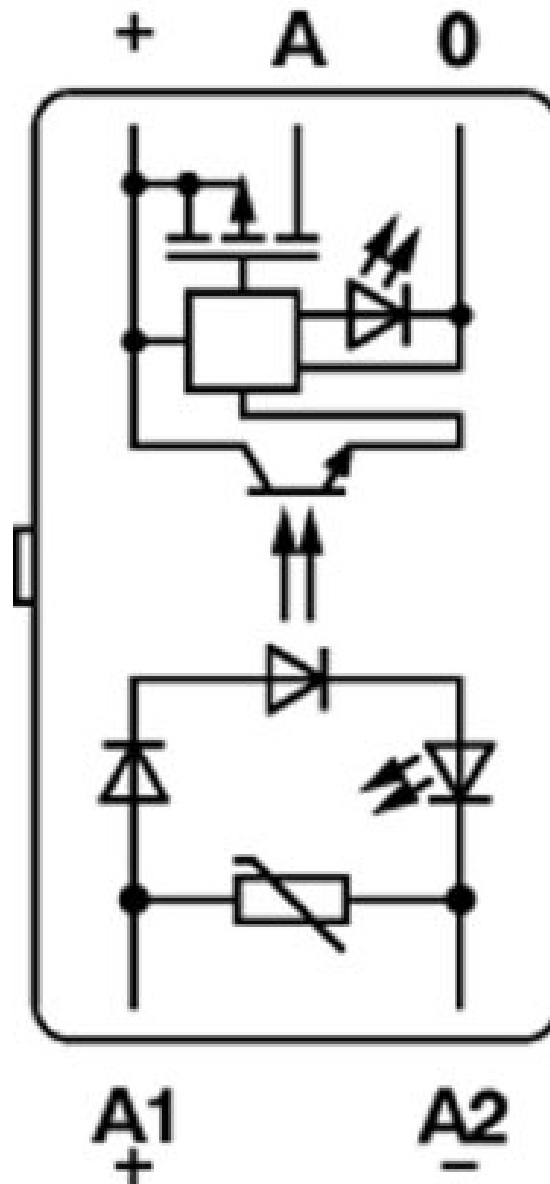
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Circuit diagram



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Classifications

ECLASS

ECLASS-13.0	27371604
ECLASS-15.0	27371604

ETIM

ETIM 10.0	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

EF3.1 Climate Change

CO2e kg	1.97 kg CO2e
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