

ST-OV2- 24DC/ 24DC/5 - Solid-state relay



2905491

<https://www.phoenixcontact.com/us/products/2905491>

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Plug-in power solid-state relay, with LED and protective circuit in input and output circuits, input: 24 V DC, output: 3 - 30 V DC/max. 5 A, can be plugged into basic terminal blocks

Commercial data

Item number	2905491
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	C460
Product key	DK61B1
GTIN	4017918079444
Weight per piece (including packing)	42.17 g
Weight per piece (excluding packing)	34.39 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	19.03.2025

Electrical properties

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

Nominal input voltage U_N	24 V DC
Input voltage range in reference to U_N	0.8 ... 1.2
Input voltage range	19.2 V DC ... 28.8 V DC
Switching threshold "0" signal in reference to U_N	≤ 0.4
Switching threshold "1" signal in reference to U_N	≥ 0.8
Typical input current at U_N	7 mA
Typical response time	50 μ s
Typical turn-off time	200 μ s
Status display	LED (yellow)
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection
Transmission frequency	300 Hz

Output data

Design of digital output	electronic
Output voltage range	3 V DC ... 30 V DC
Limiting continuous current	5 A (see derating curve)
Peak offstate voltage	30 V DC (Collector-emitter reverse voltage)
Voltage drop at max. limiting continuous current	0.3 V
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection

Dimensions

Width	14.6 mm
Height	33 mm
Depth	66.5 mm

Material specifications

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

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Ambient conditions

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

Standards and regulations

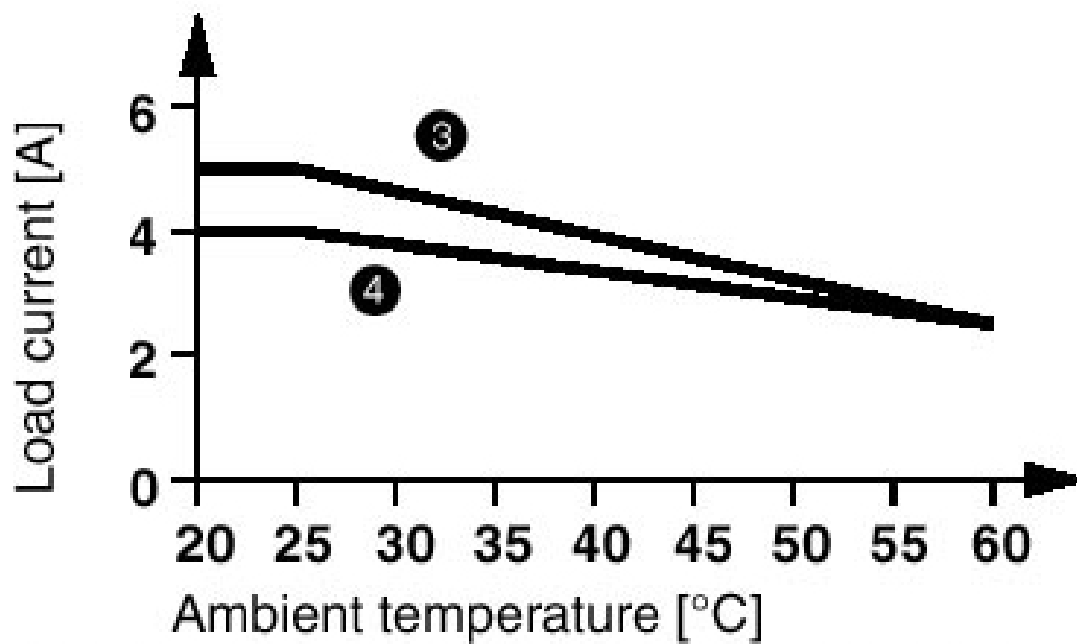
Standards/regulations	IEC 60664
	IEC 60664A
	DIN VDE 0110

Mounting

Mounting position	any
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Drawings

Diagram



- ③ power optocouplers mounted in rows with zero spacing, horizontally, or with spacing of > 10 mm, vertically.
- ④ power optocouplers mounted in rows with zero spacing, vertically.

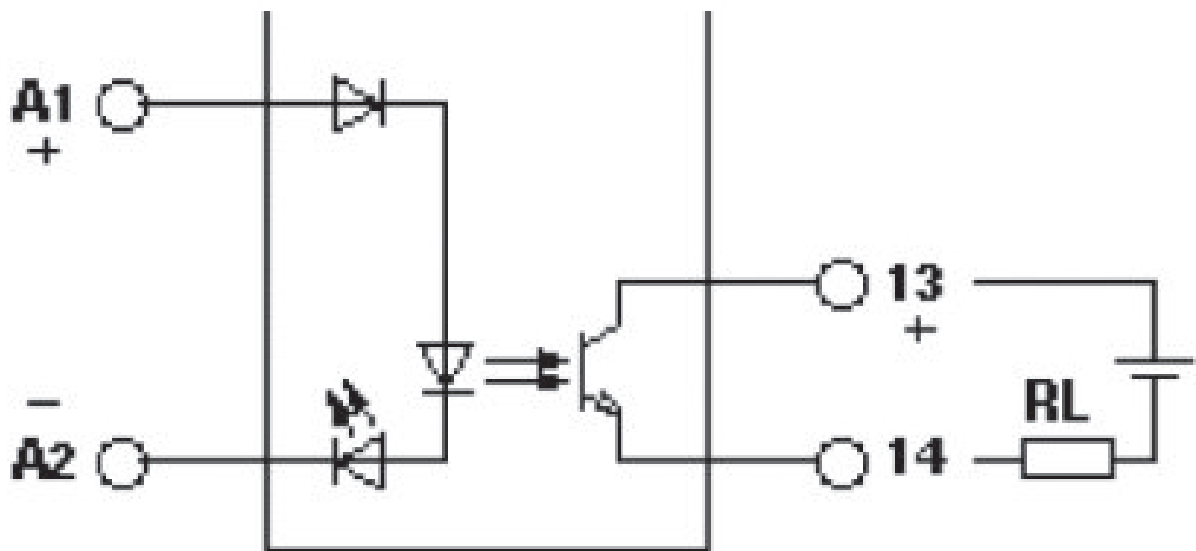
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Circuit diagram



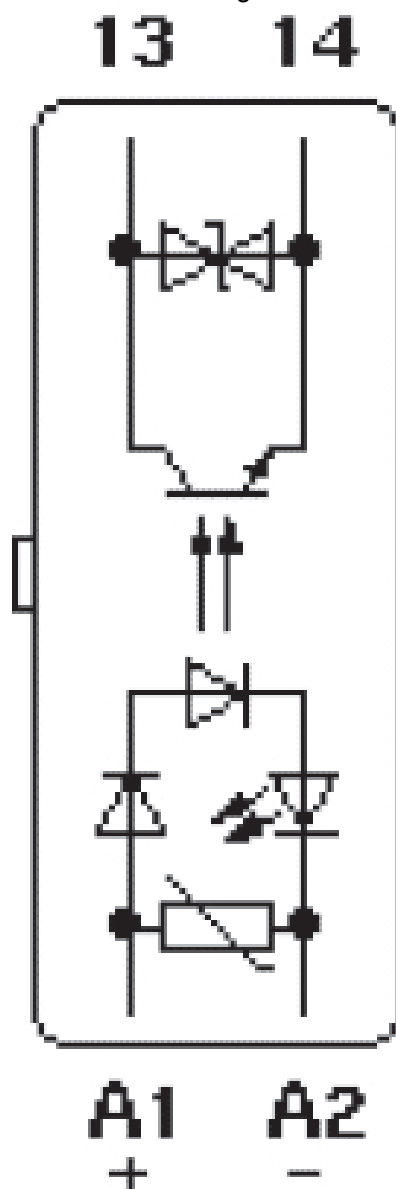
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Circuit diagram



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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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
SCIP	d48d3039-9ad1-4af5-9cc2-18b5f9c2cf9f

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com