

# ST-OV2- 24DC/ 60DC/1 - Solid-state relay

2905035

<https://www.phoenixcontact.com/us/products/2905035>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Plug-in power solid-state relay, with LED and protective circuit in input and output circuits, input: 24 V DC, output: 12 - 60 V DC/max. 1 A, can be plugged into basic terminal blocks

The figure shows version ST-OV  
2- 5 DC/ 60 DC/1

## Commercial data

Item number	2905035
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	C460
Product key	DK61B1
GTIN	4017918079178
Weight per piece (including packing)	25.74 g
Weight per piece (excluding packing)	25.04 g
Customs tariff number	85364190
Country of origin	DE

# ST-OV2- 24DC/ 60DC/1 - Solid-state relay



2905035

<https://www.phoenixcontact.com/us/products/2905035>

## Technical data

### Product properties

Product type	Single solid-state relay
Data management status	
Date of last data management	01.04.2026

### Electrical properties

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

### 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 $U_N$	$\leq 0.4$
Switching threshold "1" signal in reference to $U_N$	$\geq 0.8$
Typical input current at $U_N$	7 mA
Typical response time	20 $\mu$ s
Typical turn-off time	200 $\mu$ s
Status display	LED (yellow)
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection
Transmission frequency	500 Hz

### Output data

Design of digital output	electronic
Output voltage range	12 V DC ... 60 V DC
Limiting continuous current	1 A (see derating curve)
Surge current	5 A (t = 1 s)
Peak offstate voltage	60 V DC (Collector-emitter reverse voltage)
Voltage drop at max. limiting continuous current	1.2 V
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection

### Dimensions

#### Item dimensions

Width	14.6 mm
Height	33 mm
Depth	66.5 mm

### Material specifications

Color	green (RAL 6021)
-------	------------------

# ST-OV2- 24DC/ 60DC/1 - Solid-state relay



2905035

<https://www.phoenixcontact.com/us/products/2905035>

## 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 0110b, Gr. C for 250 V DC
	DIN VDE 0160 (in relevant parts)

## Mounting

Mounting position	any
-------------------	-----

# ST-OV2- 24DC/ 60DC/1 - Solid-state relay

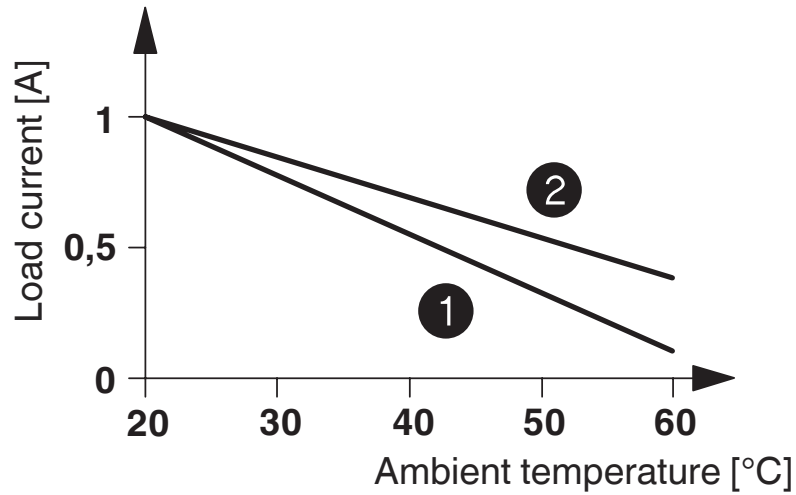
2905035

<https://www.phoenixcontact.com/us/products/2905035>



## Drawings

Diagram



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

# ST-OV2- 24DC/ 60DC/1 - Solid-state relay

2905035

<https://www.phoenixcontact.com/us/products/2905035>



Circuit diagram



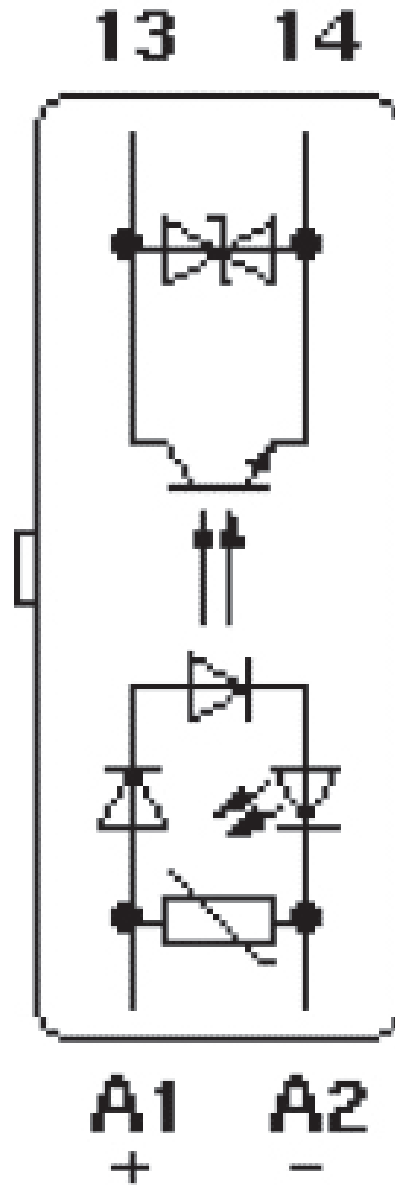
# ST-OV2- 24DC/ 60DC/1 - Solid-state relay

2905035

<https://www.phoenixcontact.com/us/products/2905035>



Circuit diagram



# ST-OV2- 24DC/ 60DC/1 - Solid-state relay



2905035

<https://www.phoenixcontact.com/us/products/2905035>

## Classifications

### ECLASS

ECLASS-13.0	27371604
ECLASS-15.0	27371604

### ETIM

ETIM 10.0	EC001504
-----------	----------

### UNSPSC

UNSPSC 21.0	39122300
-------------	----------

# ST-OV2- 24DC/ 60DC/1 - Solid-state relay



2905035

<https://www.phoenixcontact.com/us/products/2905035>

## 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	9e5e068b-9fc6-4434-abf6-0edbe14aa5d7

### EF3.1 Climate Change

CO2e kg	1.19 kg CO2e
---------	--------------

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

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