

ST-OV3- 24DC/400AC/3 - Solid-state relay



2905417

<https://www.phoenixcontact.com/us/products/2905417>

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, input: 24 V DC, output: 24 - 420 V AC/max. 3 A

The figure shows version ST-OV 3- 5 DC/240 AC/3

Your advantages

- Pluggable
- Control of 230 V motors in simple reversing mode (e.g., synchronous motor in single-phase mode, see illustration)
- Switching of up to 400 V AC/3 A

Commercial data

Item number	2905417
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	C460
Product key	DK61B1
GTIN	4017918079406
Weight per piece (including packing)	61.915 g
Weight per piece (excluding packing)	58.8 g
Customs tariff number	85364190
Country of origin	DE

ST-OV3- 24DC/400AC/3 - Solid-state relay



2905417

<https://www.phoenixcontact.com/us/products/2905417>

Technical data

Product properties

Product type	Single solid-state relay
--------------	--------------------------

Insulation characteristics

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Data management status

Date of last data management	05.09.2025
------------------------------	------------

Electrical properties

Maximum power dissipation for nominal condition	0.17 W
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	0.9 ... 1.1
Input voltage range	21.6 V DC ... 26.4 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
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection RC element; RC element
Transmission frequency	10 Hz

Output data

Design of digital output	electronic
Output nominal voltage	400 V AC
Output voltage range	24 V AC ... 420 V AC
Limiting continuous current	3 A (see derating curve)
Maximum inrush current	125 A (t = 10 ms)
Min. load current	50 mA
Leakage current	approx. 12 mA
Surge current	125 A (t = 10 ms)
Peak offstate voltage	800 V (Periodic peak reverse voltage)
Voltage drop at max. limiting continuous current	≤ 1.2 V
Protective circuit	Surge protection; Varistor RC element; RC element

Dimensions

Width	20.8 mm
-------	---------

ST-OV3- 24DC/400AC/3 - Solid-state relay



2905417

<https://www.phoenixcontact.com/us/products/2905417>

Height	42.5 mm
Depth	112 mm

Material specifications

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

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

Mounting position	Horizontal DIN rail
-------------------	---------------------

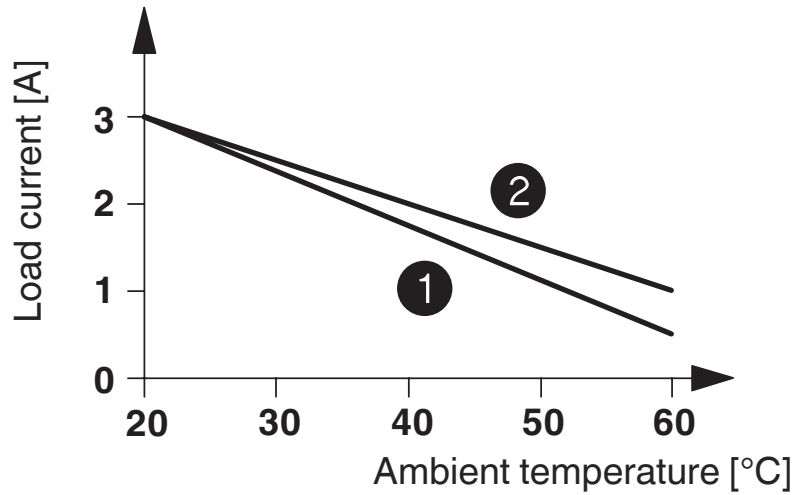
ST-OV3- 24DC/400AC/3 - Solid-state relay

2905417

<https://www.phoenixcontact.com/us/products/2905417>

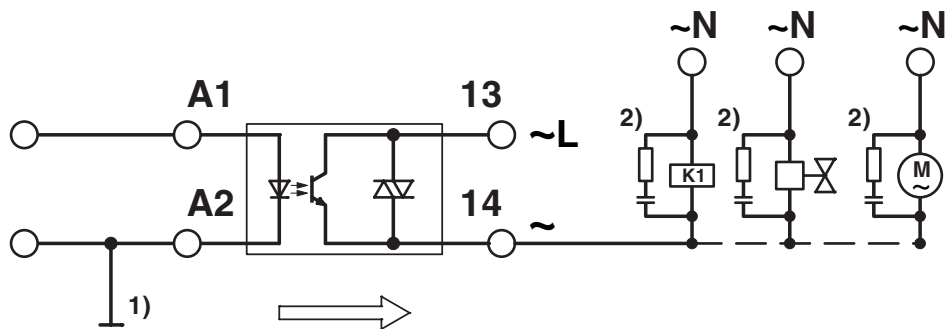
Drawings

Diagram



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

Diagram



ST-OV3- 24DC/400AC/3 - Solid-state relay

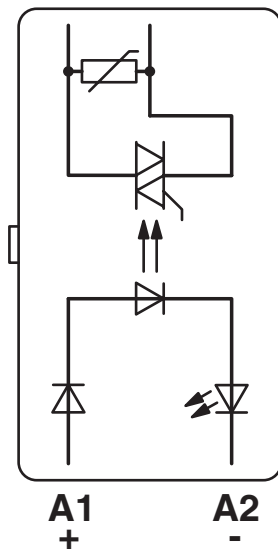
2905417

<https://www.phoenixcontact.com/us/products/2905417>



Circuit diagram

13 14



ST-OV3- 24DC/400AC/3 - Solid-state relay



2905417

<https://www.phoenixcontact.com/us/products/2905417>

Classifications

ECLASS

ECLASS-13.0	27371604
-------------	----------

UNSPSC

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

ST-OV3- 24DC/400AC/3 - Solid-state relay



2905417

<https://www.phoenixcontact.com/us/products/2905417>

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	8309f28b-4a15-4ae1-92be-2c2c29f5a5c4

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