

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



2905417

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

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Plug-in power solid-state relay, input: 24 V DC, output: 24 - 420 V AC/max. 3 A

## 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	1 pc
Minimum order quantity	1 pc
Sales key	C460
Product key	CK61B3
Catalog page	Page 450 (C-5-2019)
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

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## Technical data

### Product properties

Product type	Single solid-state relay
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### Insulation characteristics

Insulation	Basic insulation
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Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

### 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 $U_N$	$\leq 0.4$
Switching threshold "1" signal in reference to $U_N$	$\geq 0.8$
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	$\leq 1.2$ V
Protective circuit	Surge protection; Varistor
	RC element; RC element

### Dimensions

Width	20.8 mm
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Height	42.5 mm
Depth	112 mm

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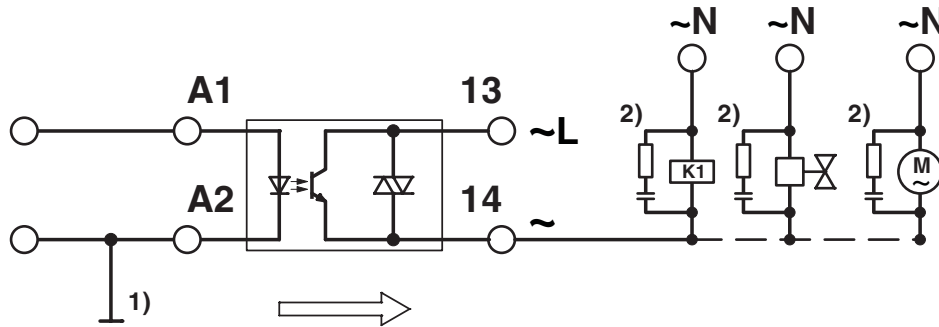
# ST-OV3- 24DC/400AC/3 - Solid-state relay

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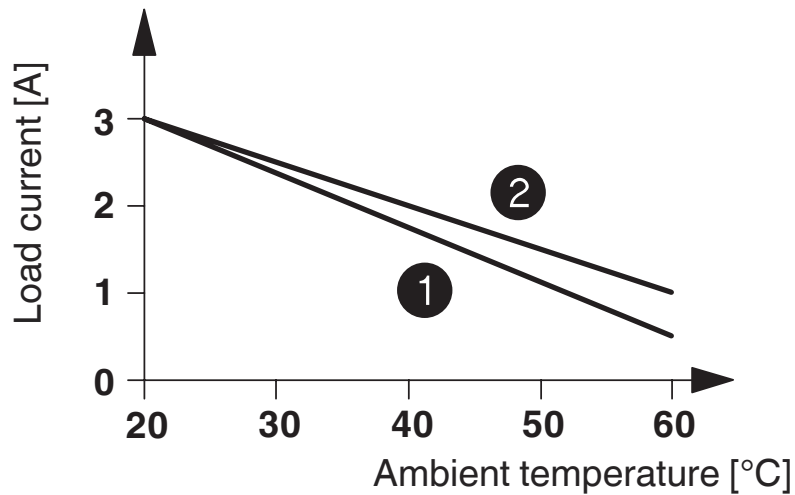
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## Drawings

Diagram



Diagram



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

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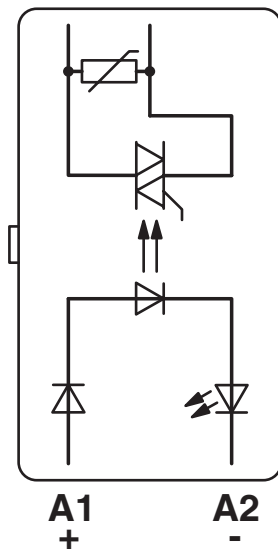
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Circuit diagram

**13 14**



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## Approvals

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**EAC**

Approval ID: TR\_TS\_D\_00573\_c



**EAC**

Approval ID: RU\*C-DE.\*08.B.00010

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## Classifications

### ECLASS

ECLASS-11.0	27371604
ECLASS-12.0	27371604
ECLASS-13.0	27371604

### ETIM

ETIM 8.0	EC001504
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### UNSPSC

UNSPSC 21.0	39122300
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## Environmental product compliance

REACH SVHC	Lead 7439-92-1
	Hexahydromethylphthalic anhydride
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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