

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	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

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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
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Height	42.5 mm
Depth	112 mm

Material specifications

Color	green (RAL 6021)
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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

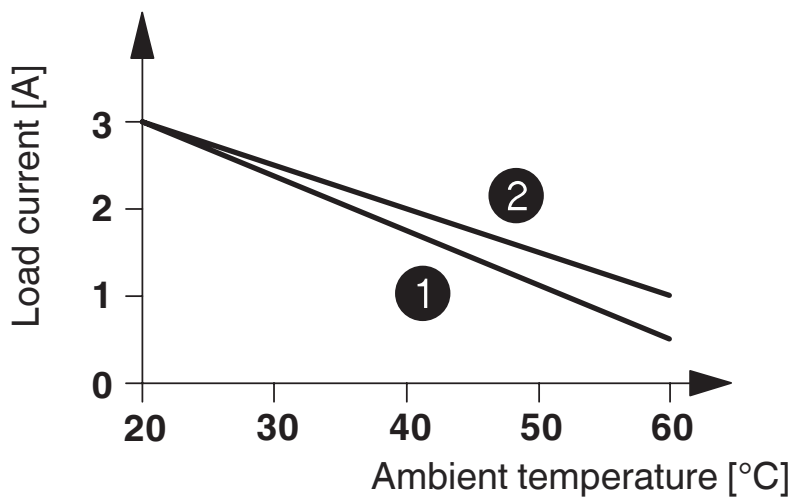
Standards/regulations	IEC 60664
	EN 50178

Mounting

Mounting position	Horizontal DIN rail
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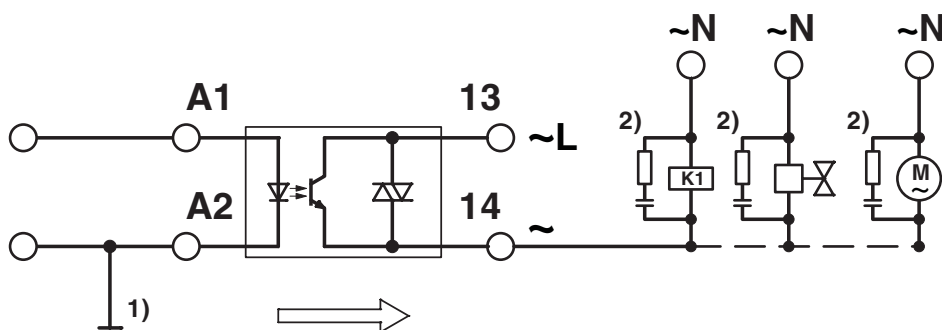
Drawings

Diagram



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

Diagram



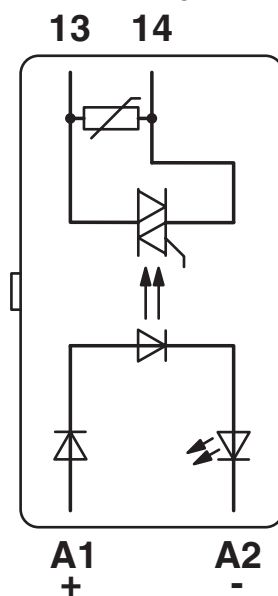
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Circuit diagram



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Classifications

ECLASS

ECLASS-13.0	27371604
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ETIM

ETIM 8.0	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	8309f28b-4a15-4ae1-92be-2c2c29f5a5c4

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