

# ST-OV3-120AC/ 60DC/3 - Solid-state relay



2903613

<https://www.phoenixcontact.com/us/products/2903613>

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Plug-in power solid-state relay, with LED and protective circuit in input and output circuits, input: 120 V AC, output: 12 - 60 V DC/max. 3 A, can be plugged into basic terminal blocks

The figure shows version ST-OV  
3- 5 DC/60 DC/3

## Commercial data

Item number	2903613
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK61B2
GTIN	4017918079062
Weight per piece (including packing)	30.8 g
Weight per piece (excluding packing)	30.8 g
Customs tariff number	85364900
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	01.04.2026

### Electrical properties

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

Nominal input voltage $U_N$	120 V AC
Input voltage range in reference to $U_N$	0.8 ... 1.2
Input voltage range	96 V AC ... 144 V AC
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 $U_N$	4 mA
Typical response time	3 ms
Typical turn-off time	13 ms
Transmission frequency	10 Hz

### Output data

Design of digital output	electronic
Output voltage range	12 V DC ... 60 V DC
Limiting continuous current	3 A (see derating curve)
Surge current	5 A (t = 1 s)
Peak offstate voltage	70 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

Width	20.8 mm
Height	33 mm
Depth	66.5 mm

### Material specifications

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

#### Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
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Ambient temperature (storage/transport)	-20 °C ... 70 °C
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## Standards and regulations

Standards/regulations	IEC 60664
	IEC 60664A
	DIN VDE 0110

## Mounting

Mounting position	any
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## Drawings

Diagram



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

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Circuit diagram

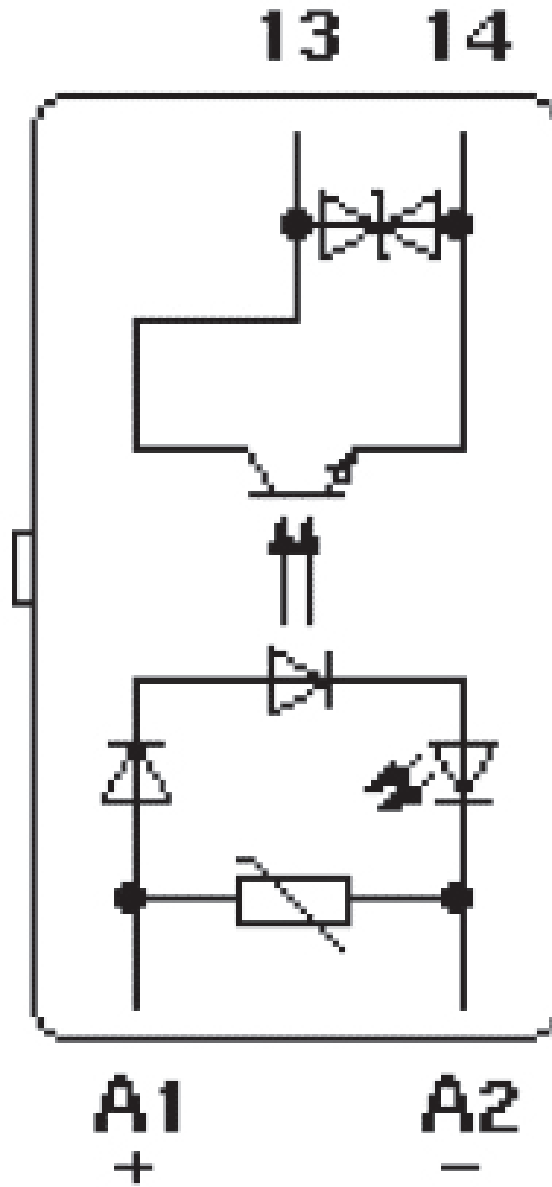


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Circuit diagram



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## Classifications

### UNSPSC

UNSPSC 21.0	39122326
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## Environmental product compliance

### 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.)	No substance above 0.1 wt%
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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)