

# ST-OV3-120AC/240AC/3 - Solid-state relay



2903697

<https://www.phoenixcontact.com/us/products/2903697>

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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: 24 - 280 V AC/max. 3 A, can be plugged into basic terminal blocks

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

## Commercial data

Item number	2903697
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK61B3
GTIN	4017918079086
Weight per piece (including packing)	60.05 g
Weight per piece (excluding packing)	59.9 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	05.09.2025

### 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 $U_N$	5 mA
Typical response time	24 ms
Typical turn-off time	24 ms
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection; Polarity protection diode
Transmission frequency	10 Hz

### Output data

Design of digital output	electronic
Output voltage range	24 V AC ... 280 V AC
Limiting continuous current	3 A (see derating curve)
Min. load current	50 mA
Leakage current	5 mA (in off state - components with low minimum load and leakage currents on request.)
Surge current	35 A (t = 10 ms)
Phase angle $\cos \phi$ min	0.5
Max. load value	$6 \text{ A}^2\text{s}$ ( $I^2 \times t$ at t = 8.3 ms)
Peak offstate voltage	600 V
Voltage drop at max. limiting continuous current	1.5 V
Output circuit	2-conductor, floating
Protective circuit	RC element

### Dimensions

Width	20.8 mm
Height	33 mm
Depth	66.5 mm

### Material specifications

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Color	green (RAL 6021)
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## 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 0110
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## 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

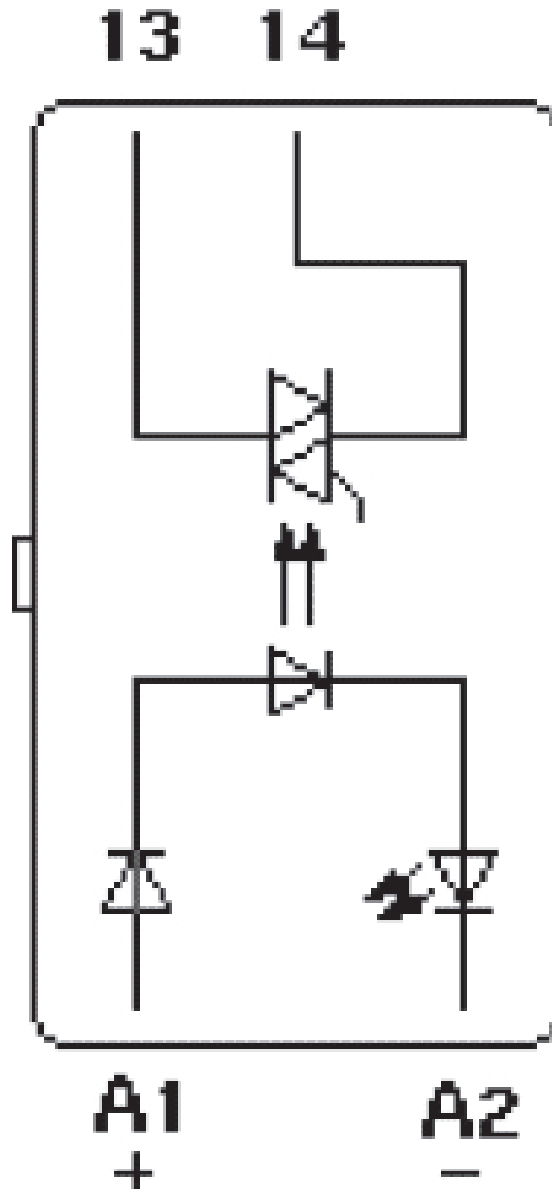


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Circuit diagram



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## 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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