

# Solid-state relays - ST-OV3- 24DC/240AC/3 - 2903231

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Plug-in power solid-state relay, with LED and protective circuit in input and output circuits, input: 24 V DC, output: 24 - 280 V AC/max. 3 A, can be plugged into basic terminal blocks

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

## Key commercial data

package_quantity	10
GTIN	4017918079017

## Technical data

### Dimensions

Width	20.8 mm
Height	33 mm
Depth	66.5 mm

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

### Input data

Nominal input voltage $U_N$	24 V DC $\pm 20\%$
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
Typical response time	(switch-on time: Max. one half cycle - zero-voltage crossing)
Typical turn-off time	(switch-off time Max. one half cycle - zero-current crossing)
Operating voltage display	Yellow LED
Type of protection	Protection against polarity reversal
Protective circuit/component	Polarity protection diode
Transmission frequency	25 Hz

### Output data

Output voltage range	24 V AC ... 280 V AC
Limiting continuous current	3 A (see derating curve)
Min. load current	50 mA

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## Technical data

### Output data

<b>Leakage current</b>	5 mA (in off state - components with low minimum load and leakage currents on request.)
<b>Surge current</b>	35 A (t = 10 ms)
<b>Max. load value</b>	6 A <sup>2</sup> s (I <sup>2</sup> x t at t = 8.3 ms)
<b>Peak offstate voltage</b>	600 V
<b>Voltage drop at max. limiting continuous current</b>	1.5 V
<b>Output circuit</b>	2-wire, floating
<b>Protective circuit/component</b>	RC element

### General

<b>Test voltage input/output</b>	2.5 kV AC
<b>Mounting position</b>	Any
<b>Standards/regulations</b>	DIN VDE 0110

## classifications

### eCl@ss

<b>eCl@ss 4.0</b>	27371102
<b>eCl@ss 4.1</b>	27371102
<b>eCl@ss 5.0</b>	27371001
<b>eCl@ss 5.1</b>	27371001
<b>eCl@ss 6.0</b>	27371001
<b>eCl@ss 7.0</b>	27371001
<b>eCl@ss 8.0</b>	27371001

### ETIM

<b>ETIM 2.0</b>	EC001504
<b>ETIM 3.0</b>	EC001504
<b>ETIM 4.0</b>	EC001504
<b>ETIM 5.0</b>	EC001504

### UNSPSC

<b>UNSPSC 6.01</b>	30211916
<b>UNSPSC 7.0901</b>	39121542
<b>UNSPSC 11</b>	39121542
<b>UNSPSC 12.01</b>	39121542
<b>UNSPSC 13.2</b>	39121542

## approvals

GOST / GOST /

### Approval details

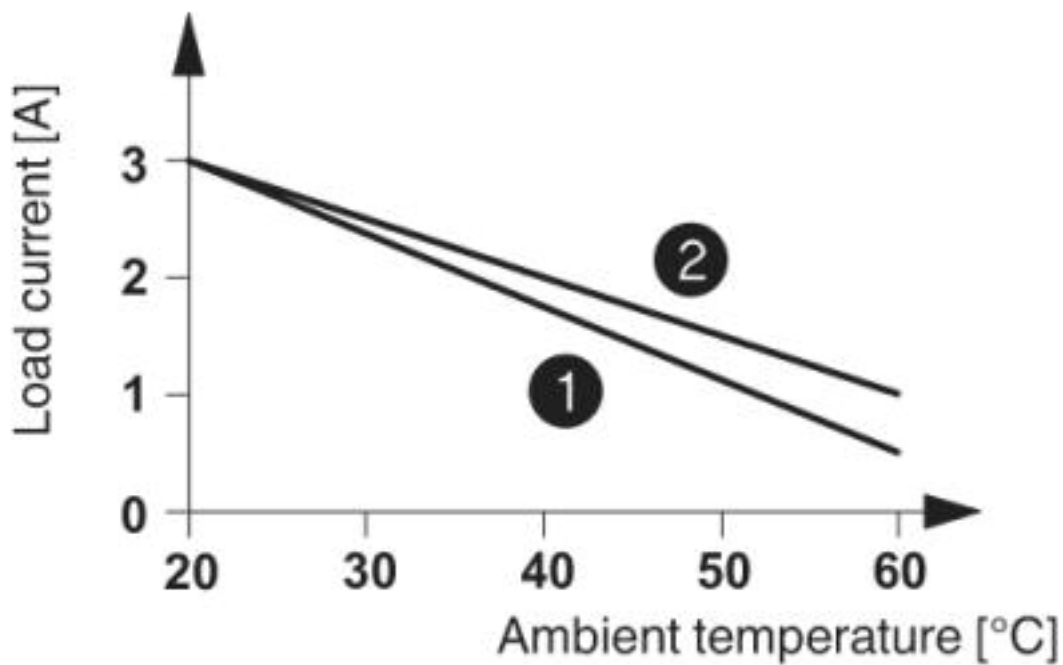
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approvals



Drawings

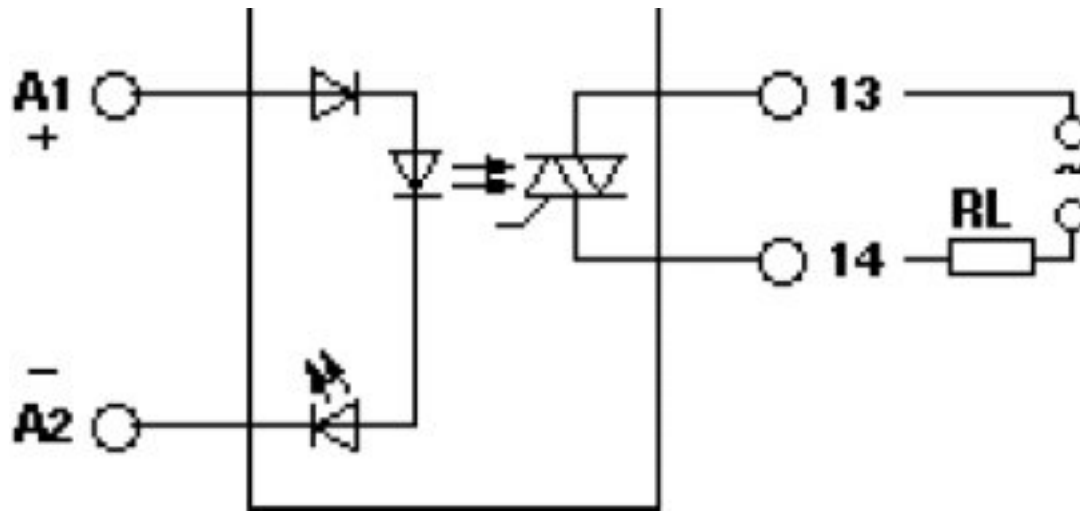
Diagram



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

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Circuit diagram



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Circuit diagram

