

## Solid-state relays - ST-OV3- 5DC/240AC/3 - 2903639


Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Plug-in power solid-state relay, with LED and protective circuit in input and output circuits, input: 5 V DC, output: 24 - 280 V AC/max. 3 A, can be plugged into basic terminal blocks

RoHS

### Key Commercial Data

Packing unit	10 pc
GTIN	 4 017918 079079
GTIN	4017918079079

### 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 $U_N$	5 V DC
Input voltage range in reference to $U_N$	0.8 ... 1.2
Input voltage range	4 V DC ... 6 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 $U_N$	10 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

# Solid-state relays - ST-OV3- 5DC/240AC/3 - 2903639

## Technical data

### Input data

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

### General

Test voltage input/output	2.5 kV AC
Mounting position	any
Standards/regulations	DIN VDE 0110

### Standards and Regulations

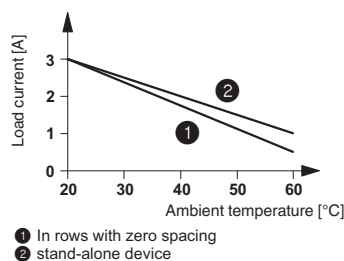
Standards/regulations	DIN VDE 0110
-----------------------	--------------

### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

Diagram



## Approvals

### Approvals

## Solid-state relays - ST-OV3- 5DC/240AC/3 - 2903639

### Approvals

Approvals

EAC

---

Ex Approvals

---

### Approval details

EAC		RU C- DE.A*30.B.01082
-----	---	--------------------------

---

Phoenix Contact 2018 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>