

ST-OV3-220DC/240AC/3 - Solid-state relay



2903105

<https://www.phoenixcontact.com/us/products/2903105>

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Pluggable power optocoupler, with light indicator and protection circuits in the input and output circuits, input: 220 V DC, output: 24-280 V AC/max. 3 A, can be plugged on basic termination blocks

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

Commercial data

Item number	2903105
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DK61B3
GTIN	4017918078935
Weight per piece (including packing)	61.15 g
Weight per piece (excluding packing)	61.15 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	220 V DC
Input voltage range in reference to U_N	0.8 ... 1.2
Input voltage range	176 V DC ... 144 V DC
Switching threshold "0" signal, voltage	≤ 86 V
Switching threshold "1" signal voltage	≥ 106 V
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
Protective circuit	Reverse polarity protection; Polarity protection diode
Transmission frequency	25 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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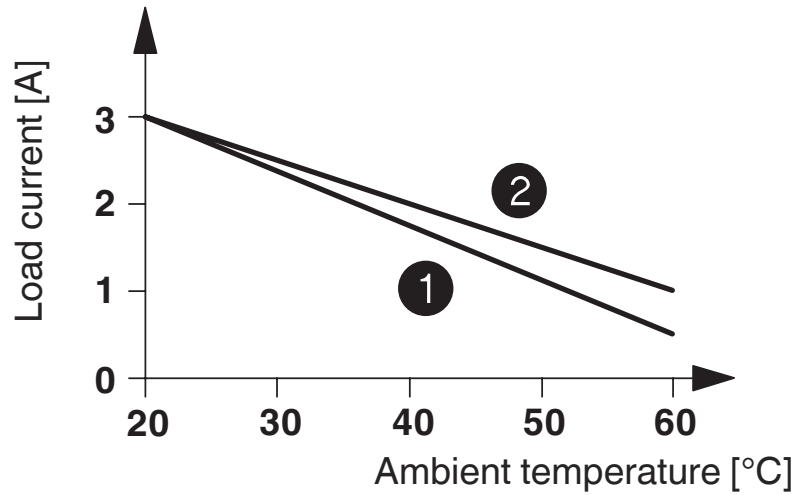
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Drawings

Diagram



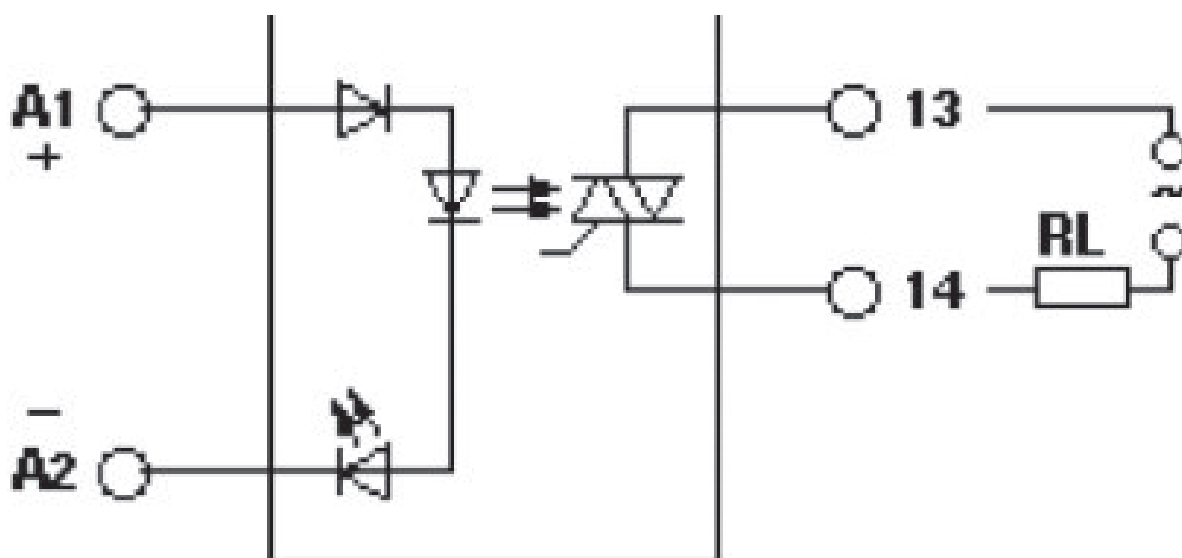
- ① In rows with zero spacing
- ② stand-alone device

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Circuit diagram

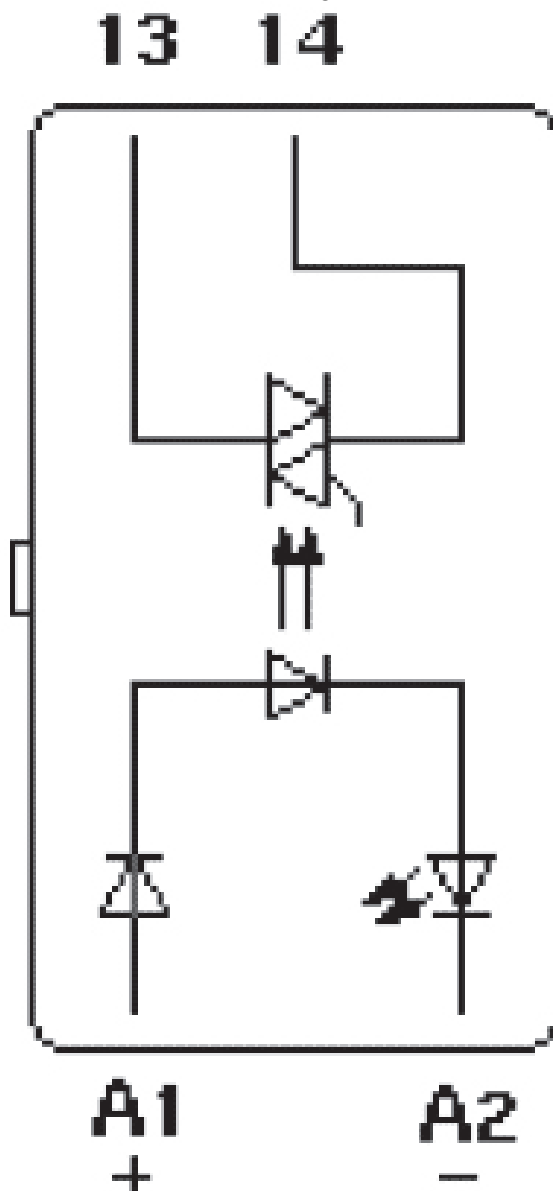


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Circuit diagram



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Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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