

ST-OV3-220DC/220DC/1 - Solid-state relay



2903176

<https://www.phoenixcontact.com/ca/products/2903176>

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Plug-in power solid-state relay, with LED and protective circuit in input and output circuits, input: 220 V DC, output: 15 - 220 V DC/max. 1 A, can be plugged into basic terminal blocks

Commercial data

Item number	2903176
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	CK06
Product key	CK61B2
Catalog page	Page 90 (IF-2002)
GTIN	4017918078966
Weight per piece (including packing)	54.83 g
Weight per piece (excluding packing)	54.07 g
Customs tariff number	85364900
Country of origin	DE

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Technical data

Product properties

Product type	Single solid-state relay
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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 ... 264 V DC
Switching threshold "0" signal, voltage	≤ 18 V
Switching threshold "1" signal voltage	≥ 33 V
Typical input current at U_N	5 mA
Typical response time	25 μ s
Typical turn-off time	1 ms
Transmission frequency	100 Hz

Output data

Design of digital output	electronic
Output voltage range	15 V DC ... 220 V DC
Limiting continuous current	1 A (see derating curve)
Surge current	2 A ($t = 1$ s)
Peak offstate voltage	220 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

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

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Mounting position	any
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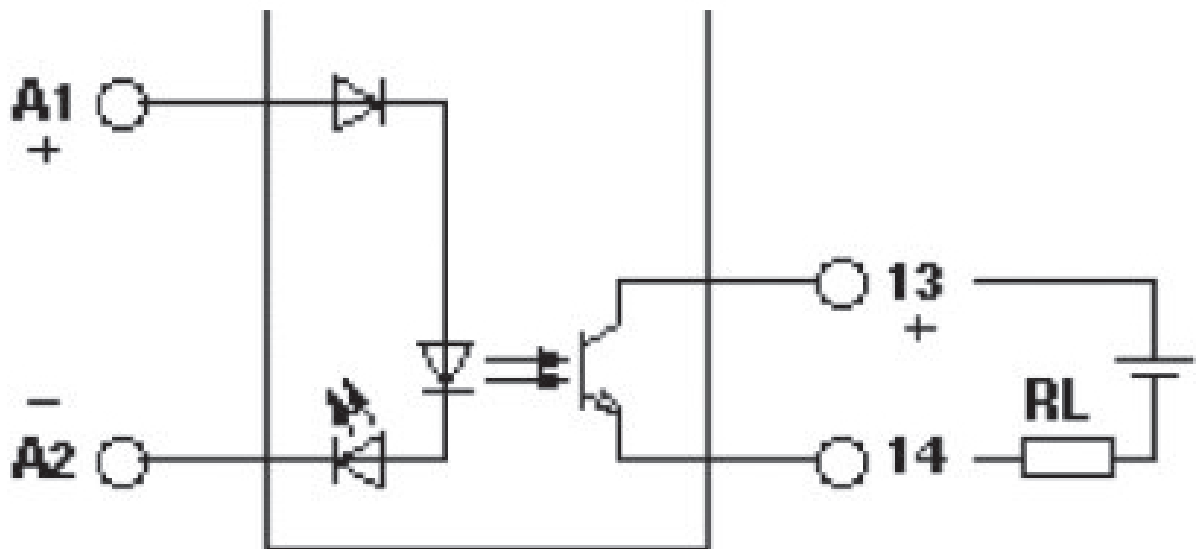


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Drawings

Circuit diagram



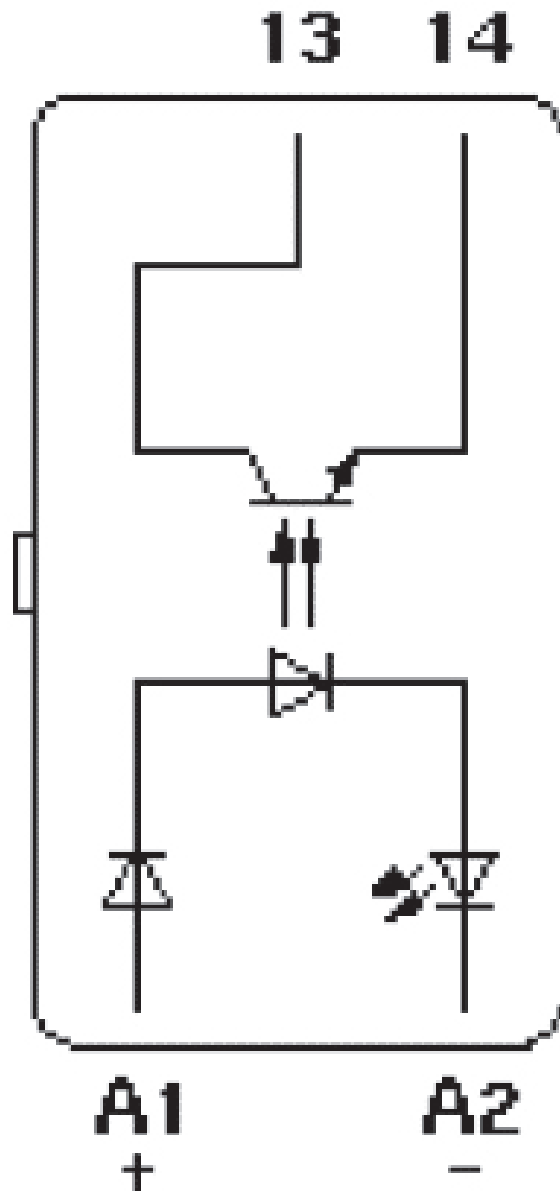
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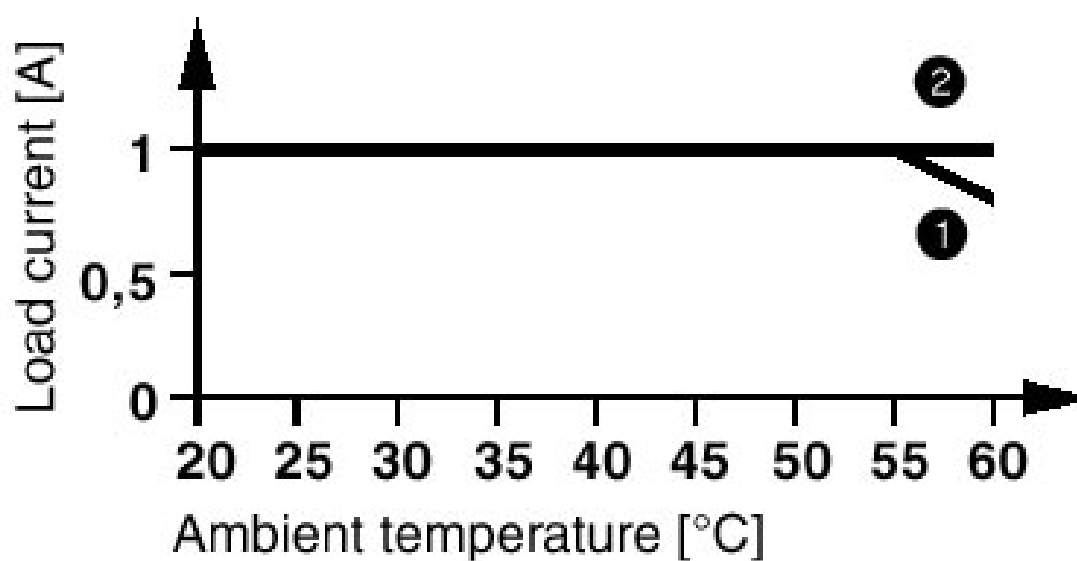
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Circuit diagram



Diagram



- ❶ mounted in rows with zero spacing.
- ❷ power optocouplers mounted in rows, ≥ 20 mm.

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Classifications

ECLASS

ECLASS-11.0	27371604
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Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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