

ST-OV3- 24DC/ 60DC/3 - Solid-state relay



2903228

<https://www.phoenixcontact.com/it/products/2903228>

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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: 12 - 60 V DC/max. 3 A, can be plugged into basic terminal blocks

Commercial data

Item number	2903228
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	CK6
Product key	CK61B2
Catalog page	Page 92 (IF-2005)
GTIN	4017918079000
Weight per piece (including packing)	54.2 g
Weight per piece (excluding packing)	54.2 g
Customs tariff number	85364190
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	24 V DC
Input voltage range in reference to U_N	0.8 ... 1.2
Input voltage range	19.2 V DC ... 28.8 V DC
Switching threshold "0" signal in reference to U_N	≤ 0.4
Switching threshold "1" signal in reference to U_N	≥ 0.8
Typical input current at U_N	7 mA
Typical response time	20 μ s
Typical turn-off time	200 μ s
Transmission frequency	500 Hz

Output data

Design of digital output	electronic
Output voltage range	12 V DC ... 60 V DC
Limiting continuous current	3 A (see derating curve)
Surge current	5 A ($t = 1$ s)
Peak offstate voltage	70 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

Material specifications

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

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Standards/regulations	IEC 60664
	IEC 60664A
	DIN VDE 0110

Mounting

Mounting position	any
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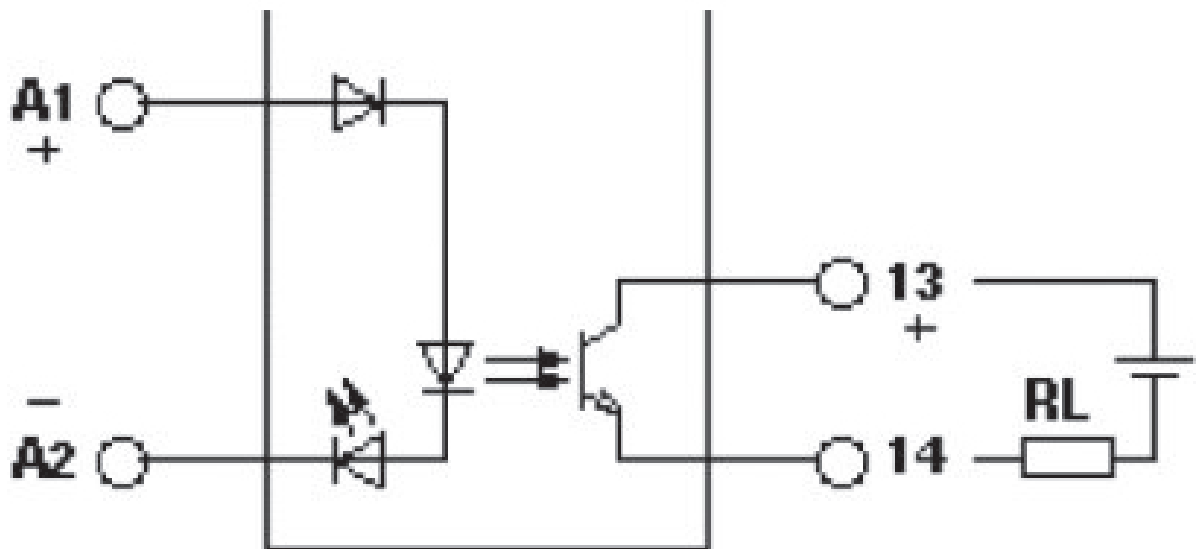
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Drawings

Circuit diagram



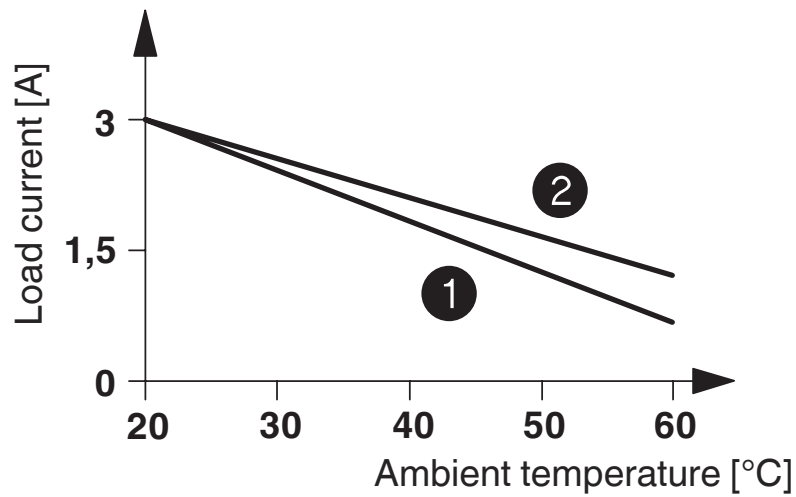
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Diagram



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

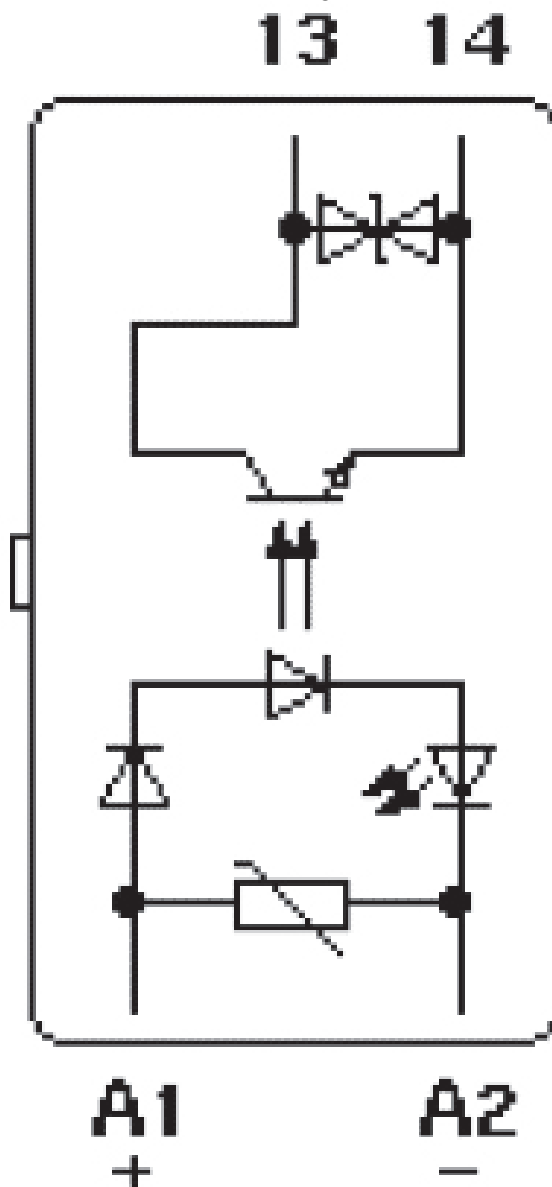
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Circuit diagram



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Approvals

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EAC

Approval ID: TR_TS_D_00573_c



EAC

Approval ID: RU*C-DE.*08.B.00010

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Classifications

ECLASS

ECLASS-11.0	27371604
ECLASS-12.0	27371604
ECLASS-13.0	27371604

ETIM

ETIM 8.0	EC001504
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UNSPSC

UNSPSC 21.0	39122300
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
	Hexahydromethylphthalic anhydride
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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