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ST-OV3- 24DC/ 24DC/2 - Solid-state relay

2905190

https://www.phoenixcontact.com/in/products/2905190

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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: short-circuit-proof, 10 - 30 V DC/max. 2 A, can be plugged into basic terminal blocks

Commercial data

Item number	2905190
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	CK6
Product key	DK61B1
Catalog page	Page 91 (IF-2005)
GTIN	4017918079338
Weight per piece (including packing)	29.54 g
Weight per piece (excluding packing)	29.54 g
Customs tariff number	85364190
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	03.05.2024

Electrical properties

Test voltage (Input/output)	2.5 kV AC (Input/output)

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, voltage	≤ 6.9 V
Switching threshold "1" signal voltage	≥ 8.5 V
Typical input current at U_N	5 mA
Typical response time	17 µs
Typical turn-off time	104 µs
Status display	LED (yellow)
Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection
Transmission frequency	1000 Hz

Output data

Design of digital output	electronic
Output voltage range	10 V DC ... 30 V DC
Limiting continuous current	2 A (see derating curve)
Peak offstate voltage	35 V DC (Collector-emitter reverse voltage)
Voltage drop at max. limiting continuous current	1.5 V
Output circuit	3-conductor, ground-referenced
Status display	LED (red)
Protective circuit	Reverse polarity protection; Polarity protection diode
	Free running; Freewheeling diode

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

Standards/regulations	DIN VDE 0110

Mounting

Mounting position	any

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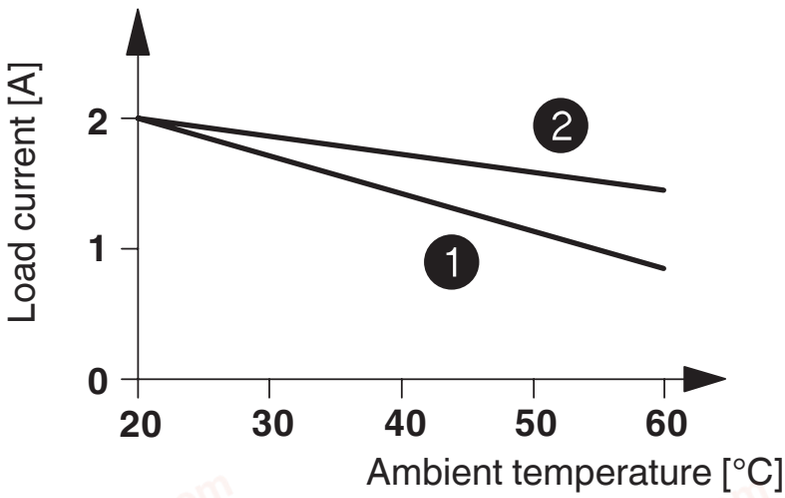
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Drawings

Diagram



1 In rows with zero spacing
2 stand-alone device

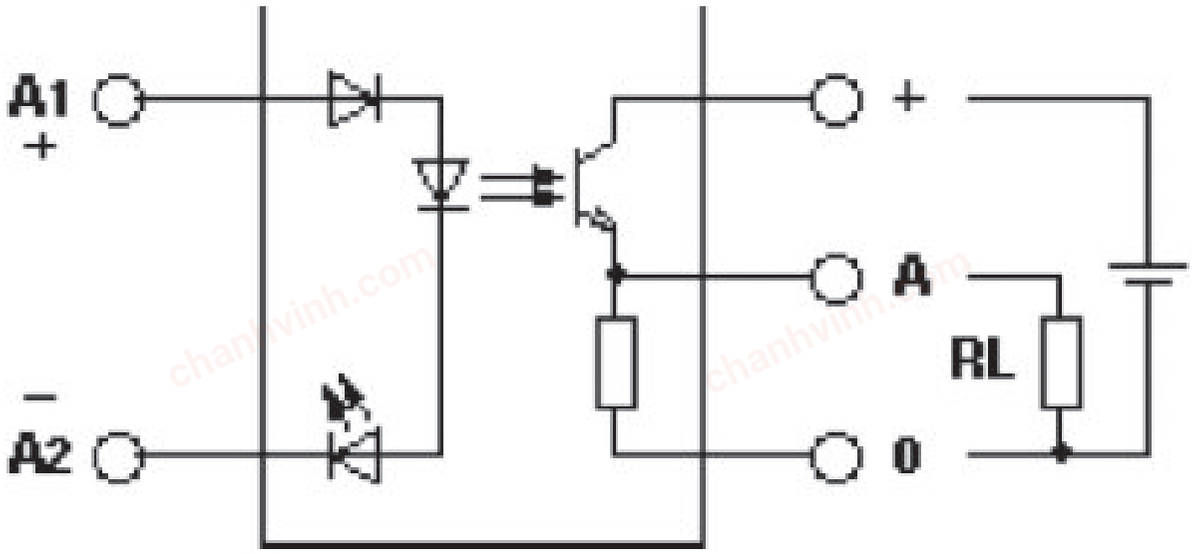
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Circuit diagram



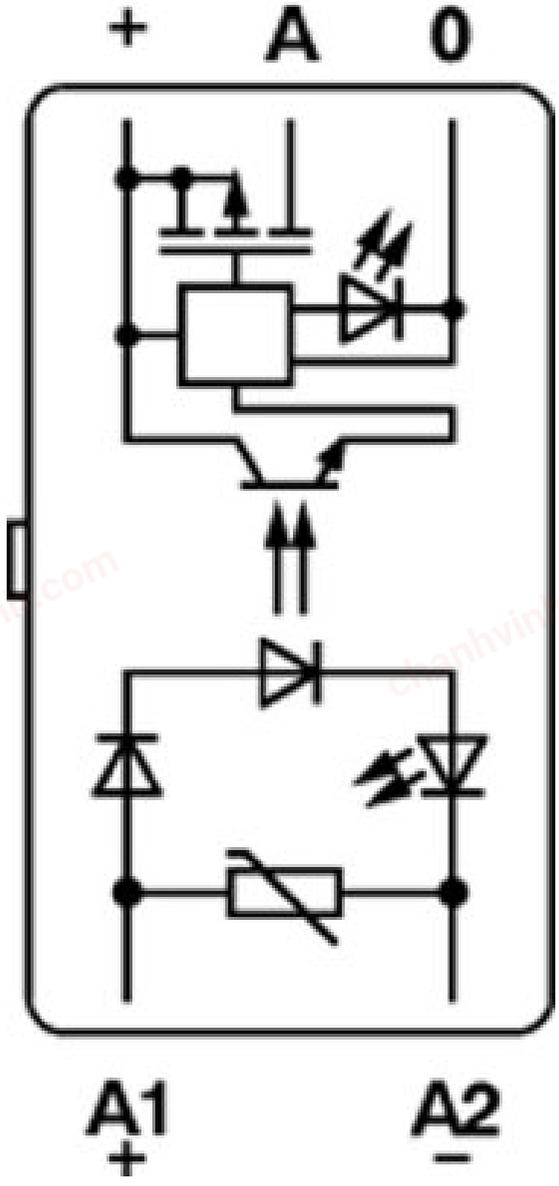
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Circuit diagram



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Classifications

ECLASS

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

ETIM

ETIM 9.0	EC001504

UNSPSC

UNSPSC 21.0	39122300

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	c33245ef-b78b-49e7-95bf-607d9a44fff5

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