

ST-OE3- 60DC/ 48DC/100 - Solid-state relay



2911045

<https://www.phoenixcontact.com/us/products/2911045>

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 documentation. Our general terms of use for downloads are valid.



Plug-in input solid-state relay, with LED and protective circuit in input and output circuits, input: 48 - 60 V DC, output: 8 - 48 V DC/max. 100 mA, can be plugged into basic terminal blocks

Commercial data

Item number	2911045
Packing unit	10 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK61B1
GTIN	4017918079475
Weight per piece (including packing)	27.93 g
Weight per piece (excluding packing)	27.55 g
Customs tariff number	85364190
Country of origin	DE

ST-OE3- 60DC/ 48DC/100 - Solid-state relay



2911045

<https://www.phoenixcontact.com/us/products/2911045>

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)
-----------------------------	--------------------------

Input data

Nominal input voltage U_N	60 V DC
Input voltage range in reference to U_N	0.72 ... 1.1
Input voltage range	43.2 V DC ... 66 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	9 mA
Typical response time	50 μ s
Typical turn-off time	100 μ s
Status display	LED (yellow)
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection
Transmission frequency	300 Hz

Output data

Design of digital output	electronic
Output voltage range	8 V DC ... 48 V DC
Limiting continuous current	100 mA
Voltage drop at max. limiting continuous current	1.2 V
Output circuit	2-conductor floating, 3-conductor ground-referenced
Protective circuit	Reverse polarity protection; Polarity protection diode Free running; Freewheeling diode
Output resistor	approx. 22 k Ω (for 3-wire connection)

Dimensions

Width	20.8 mm
Height	33 mm
Depth	66.5 mm

Material specifications

Color	green (RAL 6021)
-------	------------------

Environmental and real-life conditions

ST-OE3- 60DC/ 48DC/100 - Solid-state relay



2911045

<https://www.phoenixcontact.com/us/products/2911045>

Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

Standards and regulations

Standards/regulations	IEC 60664
	IEC 60664A
	DIN VDE 0110

Mounting

Mounting position	any
-------------------	-----

ST-OE3- 60DC/ 48DC/100 - Solid-state relay

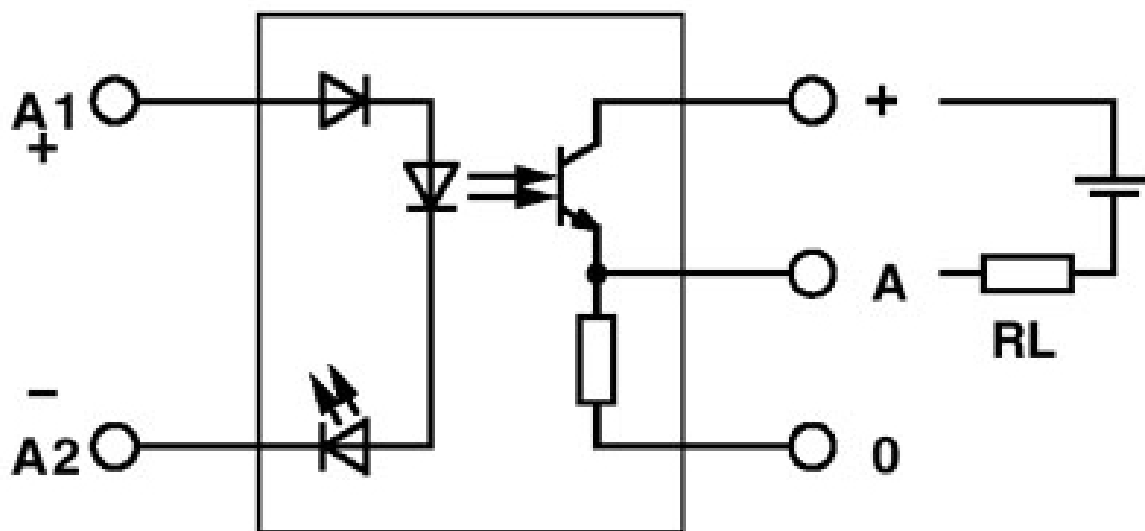
2911045

<https://www.phoenixcontact.com/us/products/2911045>



Drawings

Circuit diagram



Output: 2-conductor, floating, positive switching

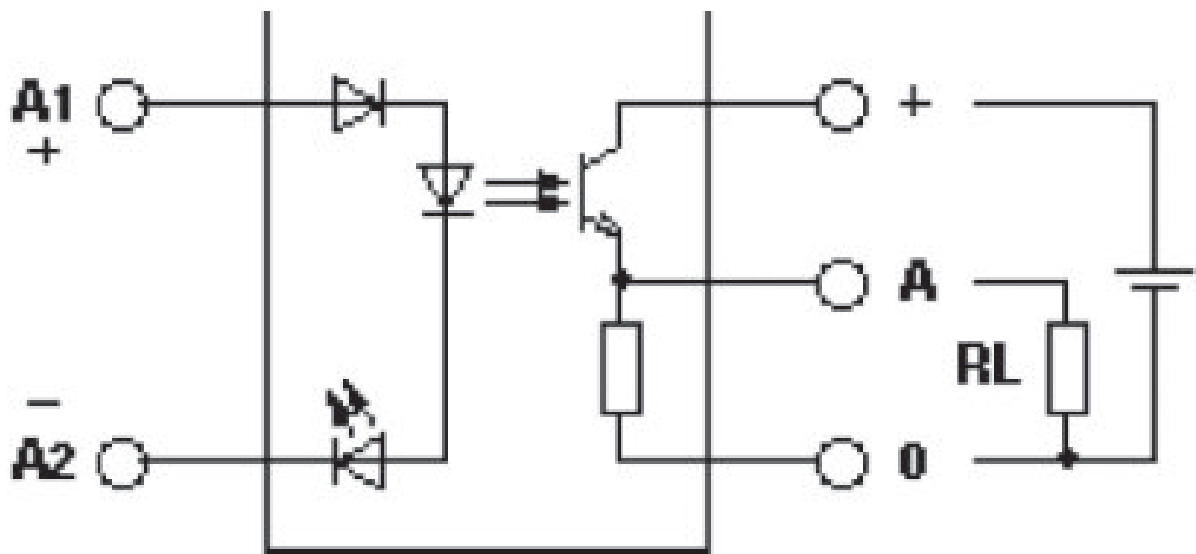
ST-OE3- 60DC/ 48DC/100 - Solid-state relay

2911045

<https://www.phoenixcontact.com/us/products/2911045>



Circuit diagram

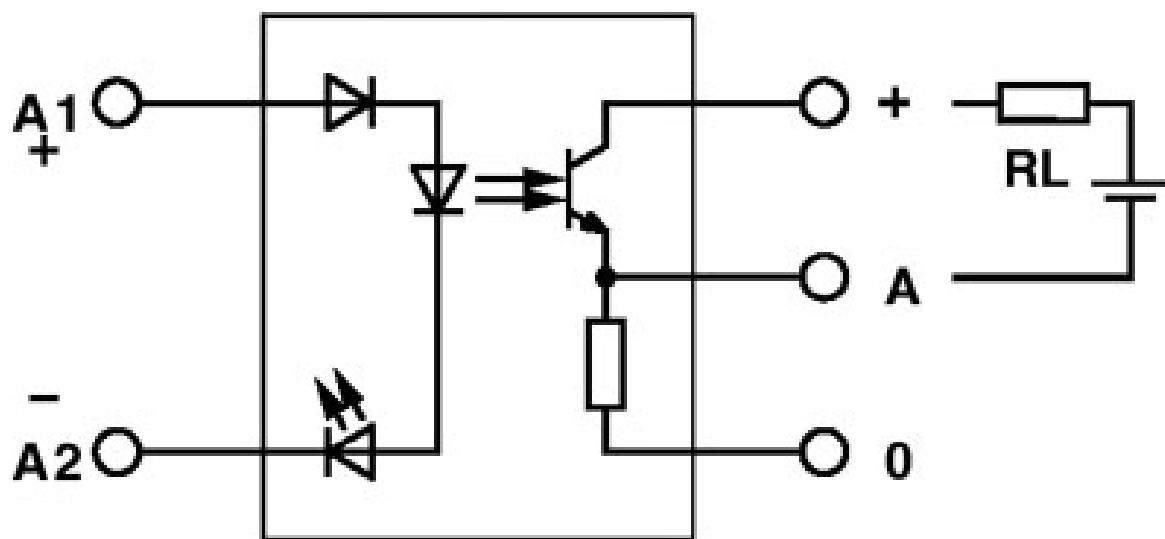


ST-OE3- 60DC/ 48DC/100 - Solid-state relay

2911045

<https://www.phoenixcontact.com/us/products/2911045>

Circuit diagram



Output: 2-conductor, floating, negative switching

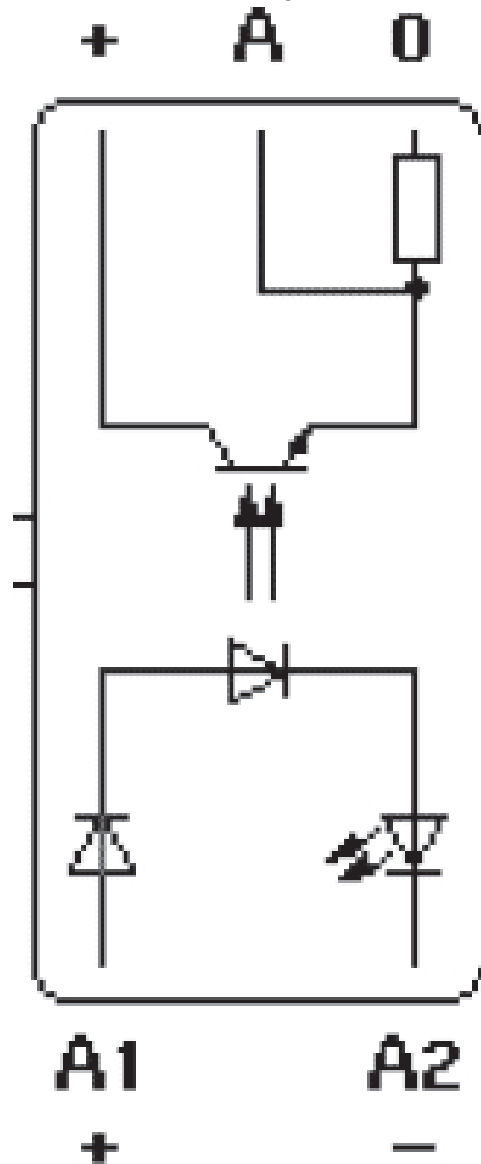
ST-OE3- 60DC/ 48DC/100 - Solid-state relay

2911045

<https://www.phoenixcontact.com/us/products/2911045>



Circuit diagram



ST-OE3- 60DC/ 48DC/100 - Solid-state relay



2911045

<https://www.phoenixcontact.com/us/products/2911045>

Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2911045>



EAC

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

ST-OE3- 60DC/ 48DC/100 - Solid-state relay



2911045

<https://www.phoenixcontact.com/us/products/2911045>

Classifications

ECLASS

ECLASS-13.0	27371604
ECLASS-15.0	27371604

ETIM

ETIM 9.0	EC001504
----------	----------

UNSPSC

UNSPSC 21.0	39122300
-------------	----------

ST-OE3- 60DC/ 48DC/100 - Solid-state relay



2911045

<https://www.phoenixcontact.com/us/products/2911045>

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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
SCIP	6302956d-4a9d-4c3e-82dc-0ea22831b9ef

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com