

SIM-EI-110DC/48DC/100 - Miniature solid-state relay



2271099

<https://www.phoenixcontact.com/us/products/2271099>

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.



Input solid-state relay, with protective circuit in input and output circuits, input: 110 V DC, output: 8 - 48 V DC/100 mA

The figure shows version SIM-EI-5DC/48DC/100

Commercial data

Item number	2271099
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK61F1
GTIN	4017918054137
Weight per piece (including packing)	20.4 g
Weight per piece (excluding packing)	19.4 g
Customs tariff number	85364900
Country of origin	DE

2271099

<https://www.phoenixcontact.com/us/products/2271099>

Technical data

Product properties

Product type	Single solid-state relay
Operating mode	100% operating factor

Data management status

Date of last data management	05.09.2025
------------------------------	------------

Electrical properties

Test voltage (Input/output)	2.5 kV (50 Hz, 1 min., input/output)
-----------------------------	--------------------------------------

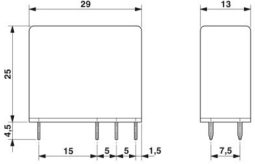
Input data

Nominal input voltage U_N	110 V DC
Input voltage range in reference to U_N	0.9 ... 1.1
Input voltage range	99 V DC ... 121 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	2.4 mA
Protective circuit	Reverse polarity protection; Polarity protection diode
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 V
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection; Polarity protection diode

Dimensions

Dimensional drawing	
Width	13 mm
Height	29 mm
Depth	25 mm

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-20 °C ... 50 °C
---------------------------------	------------------

SIM-EI-110DC/48DC/100 - Miniature solid-state relay



2271099

<https://www.phoenixcontact.com/us/products/2271099>

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

Standards and regulations

Standards/regulations	DIN VDE 0110
-----------------------	--------------

Mounting

Assembly note	can be aligned with spacing ≥ 2 mm
Mounting position	any

SIM-EI-110DC/48DC/100 - Miniature solid-state relay



2271099

<https://www.phoenixcontact.com/us/products/2271099>

Drawings

Dimensional drawing



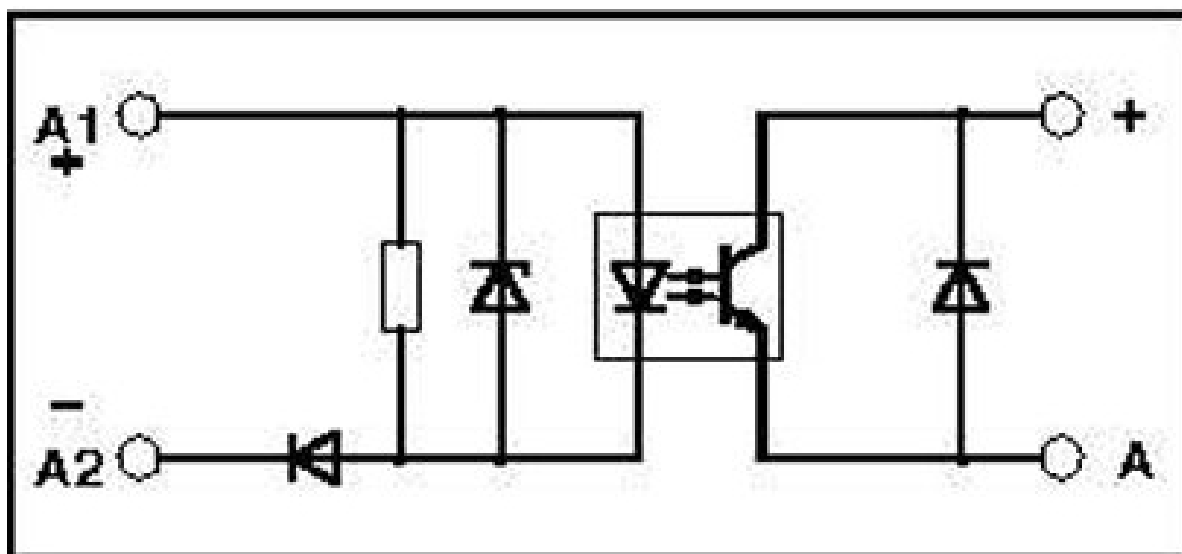
2271099

<https://www.phoenixcontact.com/us/products/2271099>

Schematic diagram



Circuit diagram



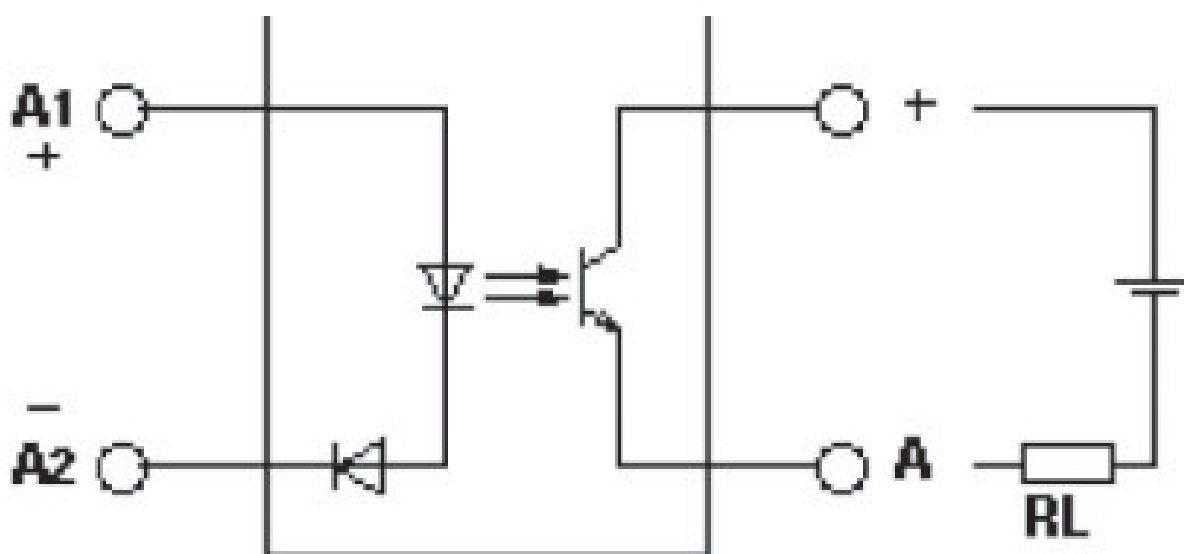
SIM-EI-110DC/48DC/100 - Miniature solid-state relay



2271099

<https://www.phoenixcontact.com/us/products/2271099>

Circuit diagram



2271099

<https://www.phoenixcontact.com/us/products/2271099>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

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.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - 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