

# Miniature solid-state relay - SIM-EI-110DC/TTL/100 - 2271170

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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)




Input solid-state relay, with protective circuit in input and output circuits, input: 110 V DC, output: TTL logic level, max. 100 mA

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



## Key Commercial Data

Packing unit	10 pc
GTIN	 4 017918 054212
GTIN	4017918054212

## Technical data

### Dimensions

Width	13 mm
Height	29 mm
Depth	25 mm

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

### 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 $U_N$	$\leq 0.4$
Switching threshold "1" signal in reference to $U_N$	$\geq 0.8$
Typical input current at $U_N$	2.4 mA
Type of protection	Reverse polarity protection
Protective circuit/component	Polarity protection diode

# Miniature solid-state relay - SIM-EI-110DC/TTL/100 - 2271170

## Technical data

### Input data

Transmission frequency	1000 Hz
------------------------	---------

### Output data

Output voltage range	3 V DC ... 5.25 V DC
Limiting continuous current	100 mA
Fan out	1
Voltage drop at max. limiting continuous current	0.3 V
Output circuit	3-conductor, ground-referenced
Type of protection	Reverse polarity protection
	Free running
Protective circuit/component	Polarity protection diode
	Damping diode
Output resistor	approx. 390 Ω

### General

Test voltage input/output	2.5 kV (50 Hz, 1 min.)
Mounting position	any
Assembly instructions	Can be aligned with 2 mm spacing
Standards/regulations	DIN VDE 0110

### Standards and Regulations

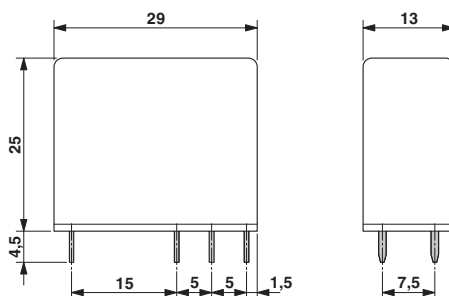
Standards/regulations	DIN VDE 0110
-----------------------	--------------

### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

Dimensional drawing



Phoenix Contact 2018 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>