

# Miniature solid-state relay - SIM-EI-120AC/48DC/100 - 2271112

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Input solid-state relay, with protective circuit in input and output circuits, input: 120 V AC, output: 8 - 48 V DC/100 mA

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



## Key Commercial Data

Packing unit	10 pc
GTIN	 4 017918 054151
GTIN	4017918054151

## 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 $U_N$	120 V AC
Input voltage range in reference to $U_N$	0.9 ... 1.1
Input voltage range	108 V AC ... 132 V AC
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 $U_N$	2.1 mA
Type of protection	Reverse polarity protection
	Surge protection

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## Technical data

### Input data

Protective circuit/component	Polarity protection diode
	Varistor
Transmission frequency	3 Hz

### Output data

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-wire, floating
Type of protection	Reverse polarity protection
Protective circuit/component	Polarity protection diode

### General

Test voltage input/output	2.5 kV (50 Hz, 1 min.)
Mounting position	any
Assembly instructions	Can be aligned with 2 mm spacing
Operating mode	100% operating factor
Standards/regulations	DIN VDE 0110

### Standards and Regulations

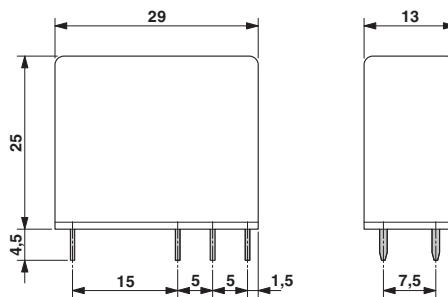
Standards/regulations	DIN VDE 0110
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### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

Dimensional drawing



## Approvals

### Approvals

## Miniature solid-state relay - SIM-EI-120AC/48DC/100 - 2271112

### Approvals

Approvals


EAC

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Ex Approvals

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### Approval details

EAC		RU C- DE.A*30.B.01082
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