

# Miniature solid-state relay - SIM-EI- 24DC/TTL/100 - 2271154

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Input solid-state relay, with protective circuit in input and output circuits, input: 24 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 054199
GTIN	4017918054199
Weight per Piece (excluding packing)	19.670 g
Custom tariff number	85364190
Country of origin	Germany
Note	Made to Order (non-returnable)

## 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 $U_N$	24 V AC
Input voltage range in reference to $U_N$	0.9 ... 1.1
Input voltage range	21.6 V DC ... 26.4 V DC
Switching threshold "0" signal in reference to $U_N$	$\leq 0.4$

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## Technical data

### Input data

Switching threshold "1" signal in reference to U <sub>N</sub>	≥ 0.8
Typical input current at U <sub>N</sub>	5.1 mA
Type of protection	Reverse polarity protection
Protective circuit/component	Polarity protection diode
Transmission frequency	4000 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 and Regulations

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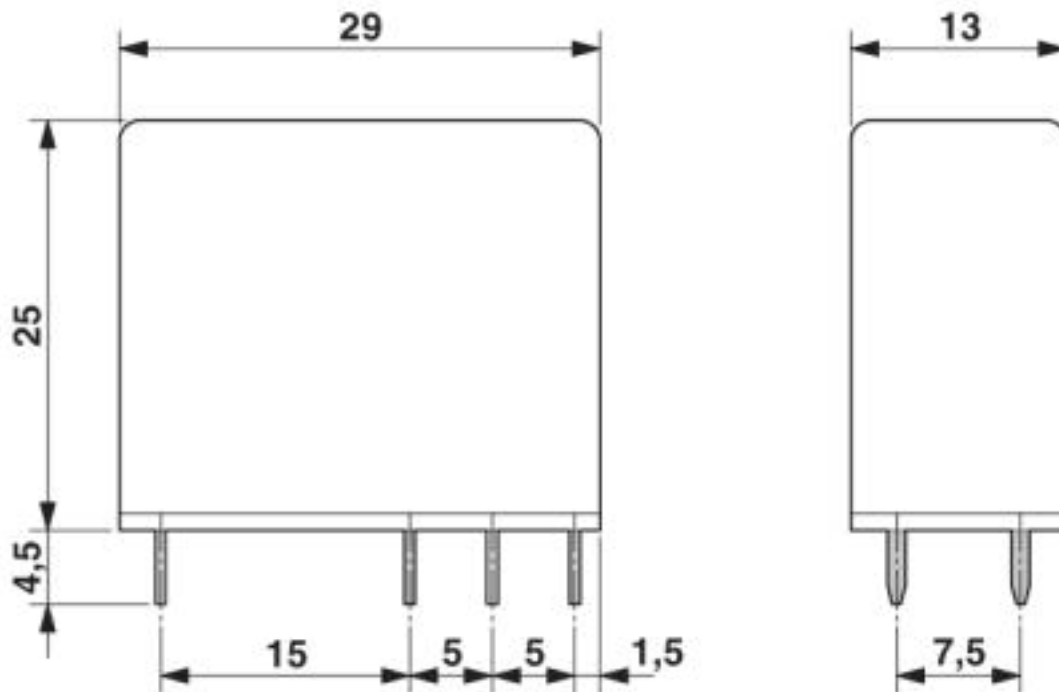
### Environmental Product Compliance

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

## Drawings

# Miniature solid-state relay - SIM-EI- 24DC/TTL/100 - 2271154

Dimensional drawing



## Classifications

eCl@ss

eCl@ss 4.0	27371100
eCl@ss 4.1	27371100
eCl@ss 5.0	27371000
eCl@ss 5.1	27371000
eCl@ss 6.0	27371600
eCl@ss 7.0	27371604
eCl@ss 8.0	27371604
eCl@ss 9.0	27371604

ETIM

ETIM 2.0	EC001504
ETIM 3.0	EC001504
ETIM 4.0	EC001504
ETIM 5.0	EC001504
ETIM 6.0	EC001504
ETIM 7.0	EC001504

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121542

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## Classifications

### UNSPSC

UNSPSC 11	39121542
UNSPSC 12.01	39121542
UNSPSC 13.2	39122326
UNSPSC 19.0	39122326

## Approvals

### Approvals

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Approvals

EAC

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Ex Approvals

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### Approval details

EAC		TR_TS_D_00573_c
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