

# SIM-EI-OV- 24DC/ 24DC/3 - Miniature solid-state relay



2300096

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Power solid-state relay, with protective circuit in input and output circuits, 24 V DC. DC voltage output of 3 A, max.

## Commercial data

Item number	2300096
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK61F1
GTIN	4017918887193
Weight per piece (including packing)	18.92 g
Weight per piece (excluding packing)	18.8 g
Customs tariff number	85364190
Country of origin	DE

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## Technical data

### Product properties

Product type	Single solid-state relay
Data management status	
Date of last data management	01.04.2026

### Electrical properties

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

Nominal input voltage $U_N$	24 V DC
Input voltage range in reference to $U_N$	0.8 ... 1.2
Input voltage range	19.2 V DC ... 28.8 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 $U_N$	7 mA
Protective circuit	Reverse polarity protection Surge protection
Transmission frequency	300 Hz

### Output data

Design of digital output	electronic
Output nominal voltage	24 V DC
Output voltage range	3 V DC ... 33 V DC
Limiting continuous current	3 A (see derating curve)
Maximum inrush current	15 A (10 ms)
Voltage drop at max. limiting continuous current	$\leq 200$ mV
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection; Polarity protection diode Surge protection

### Dimensions

Width	13 mm
Height	29 mm
Depth	25 mm

### Environmental and real-life conditions

#### Ambient conditions

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

### Standards and regulations

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Standards/regulations	DIN VDE 0110
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## Mounting

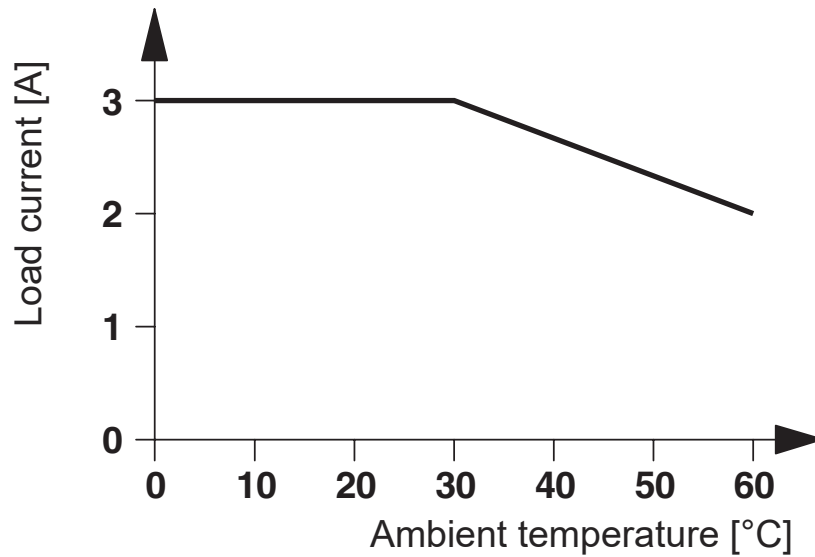
Assembly note	can be aligned with spacing $\geq 2$ mm
Mounting position	any

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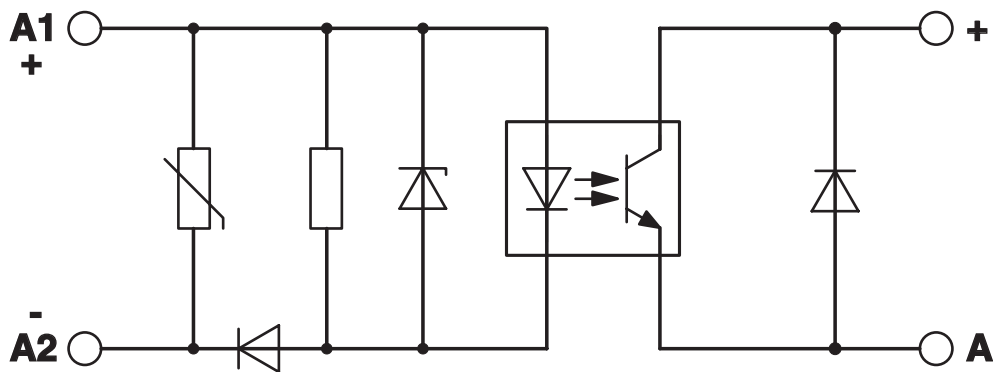
## Drawings

Diagram



Derating curve for SIM-EI-OV-24 DC/24 DC/3

Circuit diagram



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## Classifications

### UNSPSC

UNSPSC 21.0	39122326
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## 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.)	Lead(CAS: 7439-92-1)
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