

Miniature solid-state relay - SIM-EI-120AC/48DC/100/RC - 2271439

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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



Key Commercial Data

Packing unit	10 pc
GTIN	 4 017918 054298
GTIN	4017918054298

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	≤ 0.4
Switching threshold "1" signal in reference to U_N	≥ 0.8
Typical input current at U_N	2.2 mA
Type of protection	RC element
Protective circuit/component	RC element
Transmission frequency	3 Hz

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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
Standards/regulations	DIN VDE 0110

Standards and Regulations

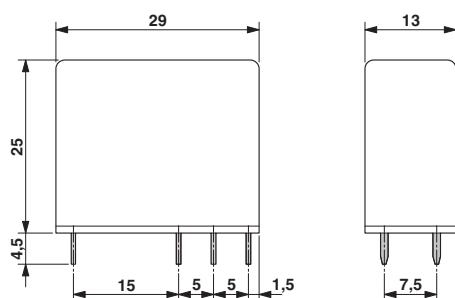
Standards/regulations	DIN VDE 0110
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Environmental Product Compliance

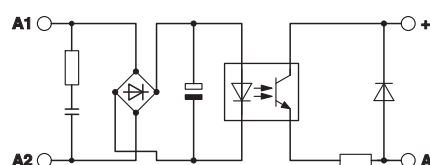
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Dimensional drawing



Circuit diagram



Mouser Electronics

Authorized Distributor

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