

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 | ≤ 0.4 |
| Switching threshold "1" signal in reference to U_N | ≥ 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

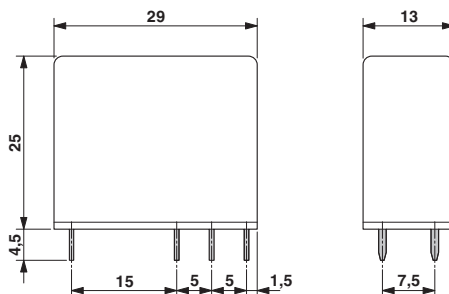
| | |
|-----------------------|--------------|
| Standards/regulations | DIN VDE 0110 |
|-----------------------|--------------|

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

Ex Approvals

Approval details

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

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