

Miniature solid-state relay - SIM-EI-230AC/48DC/100/RC - 2271426

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Input solid-state relay, with protective circuit in input and output circuits, input: 230 V AC, output: 8 - 48 V DC/100 mA



Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 10 pc                                                                                                   |
| GTIN         | <br>4 017918 054281 |
| GTIN         | 4017918054281                                                                                           |

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 $U_N$                          | 230 V AC              |
| Input voltage range in reference to $U_N$            | 0.9 ... 1.1           |
| Input voltage range                                  | 207 V AC ... 253 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 $U_N$                       | 2.5 mA                |
| Type of protection                                   | RC element            |
| Protective circuit/component                         | RC element            |
| Transmission frequency                               | 3 Hz                  |

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## Technical data

### 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

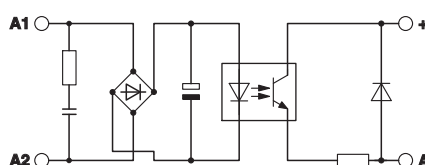
|                       |              |
|-----------------------|--------------|
| Standards/regulations | DIN VDE 0110 |
|-----------------------|--------------|

### Environmental Product Compliance

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

## Drawings

Circuit diagram



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