

## Solid-state relays - ST-OV2-230AC/ 60DC/1 - 2905080

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Plug-in power solid-state relay, with LED and protective circuit in input and output circuits, input: 230 V AC, output: 12 - 60 V DC/max. 1 A, can be plugged into basic terminal blocks

The figure shows version ST-OV 2-5 DC/ 60 DC/1



### Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 10 pc   |
| GTIN         | <br>4 017918 079222 |
| GTIN         | 4017918079222   |

### Technical data

#### Dimensions

|        |         |
|--------|---------|
| Width  | 14.6 mm |
| Height | 33 mm   |
| Depth  | 66.5 mm |

#### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)         | -20 °C ... 60 °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 $U_N$                       | 4 mA                  |
| Typical response time                                | 3 ms                  |
| Typical turn-off time                                | 13 ms                 |

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## Technical data

### Input data

|                              |                             |
|------------------------------|-----------------------------|
| Status display               | Yellow LED                  |
| Type of protection           | Reverse polarity protection |
|                              | Surge protection            |
| Protective circuit/component | Polarity protection diode   |
| Transmission frequency       | 10 Hz                       |

### Output data

|  |   |
|--|---|
| Output voltage range                             | 12 V DC ... 60 V DC                         |
| Limiting continuous current                      | 1 A (see derating curve)                    |
| Surge current                                    | 5 A (t = 1 s)                               |
| Peak offstate voltage                            | 60 V DC (Collector-emitter reverse voltage) |
| Voltage drop at max. limiting continuous current | 1.2 V                                       |
| Output circuit                                   | 2-wire, floating                            |
| Type of protection                               | Reverse polarity protection                 |
|  | Surge protection                            |
| Protective circuit/component                     | Polarity protection diode                   |

### General

|                           |                                   |
|---------------------------|-----------------------------------|
| Test voltage input/output | 2.5 kV AC                         |
| Mounting position         | any                               |
| Standards/regulations     | DIN VDE 0110b, Gr. C for 250 V DC |
|                           | DIN VDE 0160 (in relevant parts)  |

### Standards and Regulations

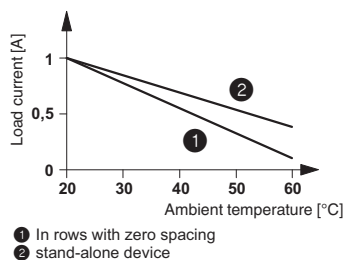
|                       |                                   |
|-----------------------|-----------------------------------|
| Standards/regulations | DIN VDE 0110b, Gr. C for 250 V DC |
|                       | DIN VDE 0160 (in relevant parts)  |

### 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

Diagram



## Solid-state relays - ST-OV2-230AC/ 60DC/1 - 2905080

### Approvals

Approvals

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Approvals

EAC

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Ex Approvals

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### Approval details

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

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