

ST-OV3- 60DC/ 60DC/3 - Solid-state relay

2903011

<https://www.phoenixcontact.com/us/products/2903011>

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Plug-in power solid-state relay, with LED and protective circuit in input and output circuits, input: 48 - 60 V DC, output: 12 - 60 V DC/max. 3 A, can be plugged into basic terminal blocks

The figure shows version ST-OV
3- 5 DC/60 DC/3

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2903011 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | NULL |
| Product key | DK61B2 |
| GTIN | 4017918078867 |
| Weight per piece (including packing) | 58 g |
| Weight per piece (excluding packing) | 58 g |
| Customs tariff number | 85364190 |
| Country of origin | DE |

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Technical data

Notes

Utilization restriction

| | |
|----------|---|
| EMC note | EMC: class A product, see manufacturer's declaration in the download area |
|----------|---|

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 AC (Input/output) |
|-----------------------------|--------------------------|

Input data

| | |
|--|-----------------------|
| Nominal input voltage U_N | 60 V DC |
| Input voltage range in reference to U_N | 0.64 ... 1.2 |
| Input voltage range | 38.4 V DC ... 72 V DC |
| 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 | 7 mA |
| Typical response time | 20 μ s |
| Typical turn-off time | 200 μ s |
| Transmission frequency | 500 Hz |

Output data

| | |
|--|--|
| Design of digital output | electronic |
| Output voltage range | 12 V DC ... 60 V DC |
| Limiting continuous current | 3 A (see derating curve) |
| Surge current | 5 A (t = 1 s) |
| Peak offstate voltage | 70 V DC (Collector-emitter reverse voltage) |
| Voltage drop at max. limiting continuous current | 1.2 V |
| Output circuit | 2-conductor, floating |
| Protective circuit | Reverse polarity protection; Polarity protection diode Surge protection |

Dimensions

| | |
|--------|---------|
| Width | 20.8 mm |
| Height | 33 mm |
| Depth | 66.5 mm |

Material specifications

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| | |
|-------|------------------|
| Color | green (RAL 6021) |
|-------|------------------|

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

| | |
|-----------------------|--------------|
| Standards/regulations | IEC 60664 |
| | IEC 60664A |
| | DIN VDE 0110 |

Mounting

| | |
|-------------------|-----|
| Mounting position | any |
|-------------------|-----|

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Drawings

Diagram



- ① In rows with zero spacing
- ② stand-alone device

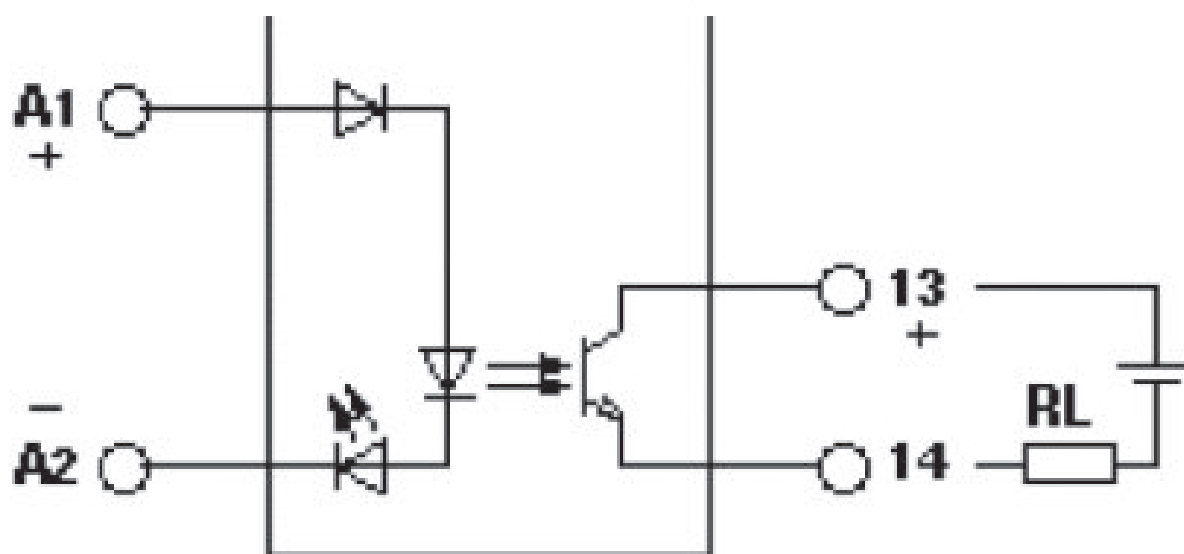
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Circuit diagram



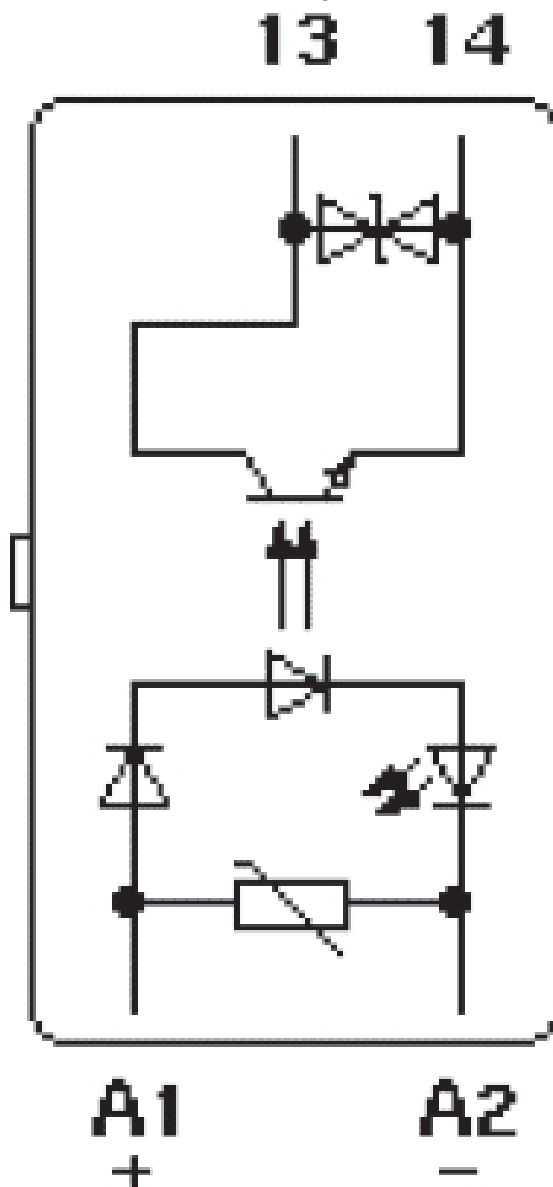
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Circuit diagram



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Environmental product compliance

EU REACH SVHC

| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|
|-------------------------------------|----------------------------|

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