

ST-OV3- 24DC/ 24DC/2 - Solid-state relay



2905190

<https://www.phoenixcontact.com/us/products/2905190>

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Plug-in power solid-state relay, with LED and protective circuit in input and output circuits, input: 24 V DC, output: short-circuit-proof, 10 - 30 V DC/max. 2 A, can be plugged into basic terminal blocks

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2905190 |
| Packing unit | 10 pc |
| Minimum order quantity | 1 pc |
| Sales key | C460 |
| Product key | DK61B1 |
| GTIN | 4017918079338 |
| Weight per piece (including packing) | 29.54 g |
| Weight per piece (excluding packing) | 29.54 g |
| Customs tariff number | 85364190 |
| Country of origin | DE |

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Technical data

Product properties

| | |
|------------------------------|--------------------------|
| Product type | Single solid-state relay |
| Data management status | |
| Date of last data management | 05.09.2025 |

Electrical properties

| | |
|-----------------------------|--------------------------|
| Test voltage (Input/output) | 2.5 kV AC (Input/output) |
|-----------------------------|--------------------------|

Input data

| | |
|---|--|
| Nominal input voltage U_N | 24 V DC |
| Input voltage range in reference to U_N | 0.8 ... 1.2 |
| Input voltage range | 19.2 V DC ... 28.8 V DC |
| Switching threshold "0" signal, voltage | ≤ 6.9 V |
| Switching threshold "1" signal voltage | ≥ 8.5 V |
| Typical input current at U_N | 5 mA |
| Typical response time | 17 μ s |
| Typical turn-off time | 104 μ s |
| Status display | LED (yellow) |
| Protective circuit | Reverse polarity protection; Polarity protection diode Surge protection |
| Transmission frequency | 1000 Hz |

Output data

| | |
|--|--|
| Design of digital output | electronic |
| Output voltage range | 10 V DC ... 30 V DC |
| Limiting continuous current | 2 A (see derating curve) |
| Peak offstate voltage | 35 V DC (Collector-emitter reverse voltage) |
| Voltage drop at max. limiting continuous current | 1.5 V |
| Output circuit | 3-conductor, ground-referenced |
| Status display | LED (red) |
| Protective circuit | Reverse polarity protection; Polarity protection diode Free running; Freewheeling diode |

Dimensions

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

Material specifications

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

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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 | DIN VDE 0110 |
|-----------------------|--------------|

Mounting

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

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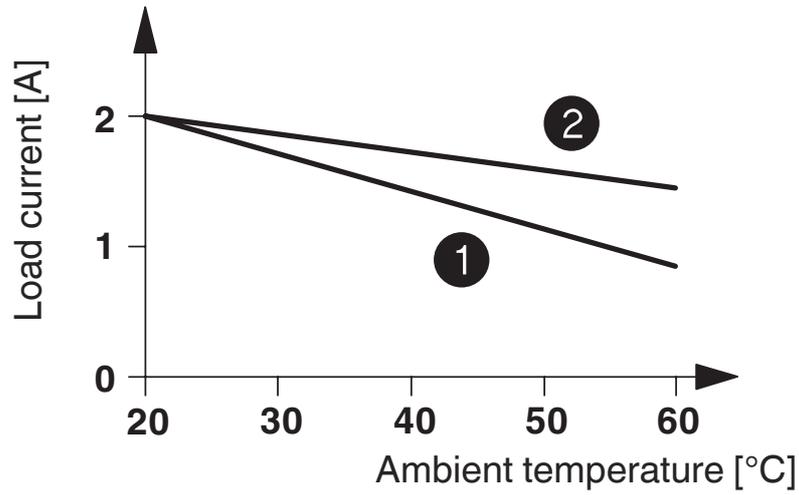
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Drawings

Diagram



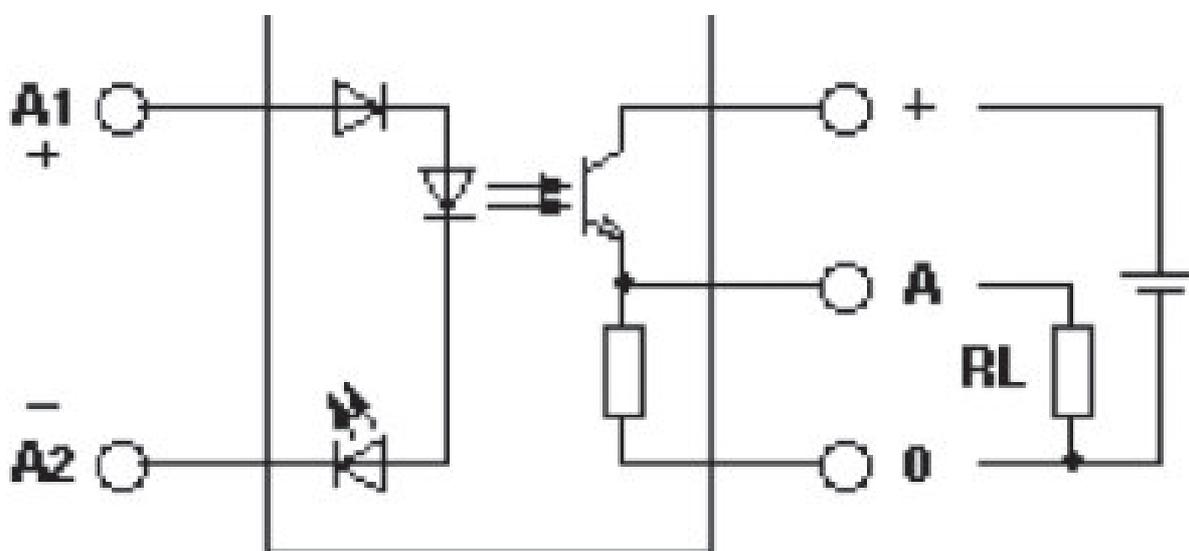
- ① In rows with zero spacing
- ② stand-alone device

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Circuit diagram



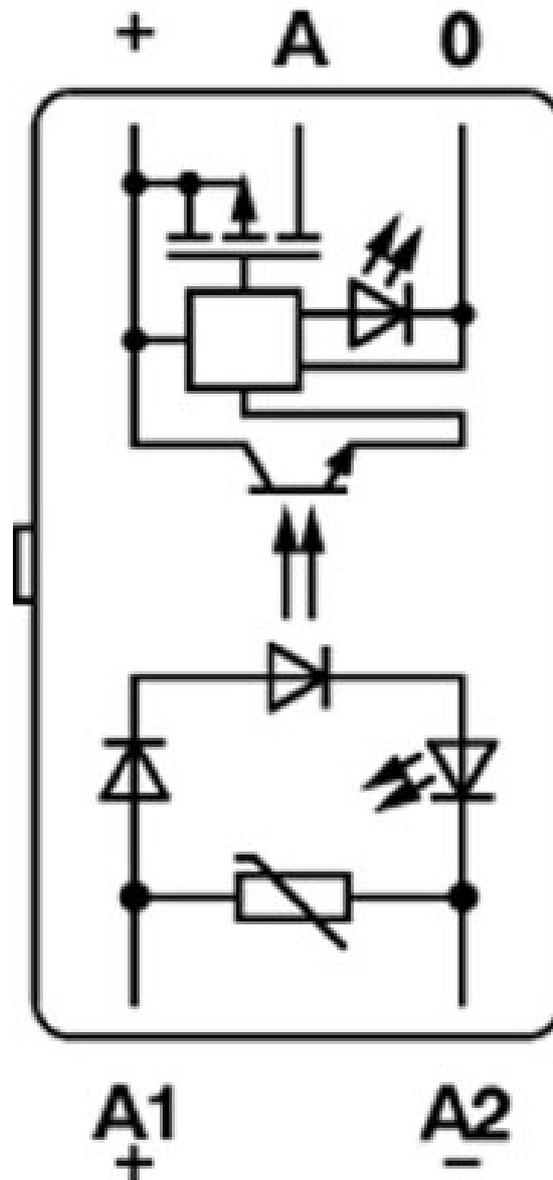
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Circuit diagram



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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27371604 |
| ECLASS-15.0 | 27371604 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC001504 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39122300 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 7(a), 7(c)-I |

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | c33245ef-b78b-49e7-95bf-607d9a44fff5 |

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