

ST-OV3-220DC/ 60DC/3 - Solid-state relay



2903286

<https://www.phoenixcontact.com/us/products/2903286>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Plug-in power solid-state relay, with LED and protective circuit in input and output circuits, input: 220 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 | 2903286 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C460 |
| Product key | DK61B2 |
| GTIN | 4017918079024 |
| Weight per piece (including packing) | 61.45 g |
| Weight per piece (excluding packing) | 58.4 g |
| Customs tariff number | 85364900 |
| Country of origin | DE |

Technical data

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 | 220 V DC |
| Input voltage range in reference to U_N | 0.8 ... 1.2 |
| Input voltage range | 176 V DC ... 264 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 | 5 mA |
| Typical response time | 20 μ s |
| Typical turn-off time | 200 μ s |
| Status display | LED (yellow) |
| Protective circuit | Reverse polarity protection; Polarity protection diode Surge protection |
| Transmission frequency | 300 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) |
| Maximum inrush 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

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

ST-OV3-220DC/ 60DC/3 - Solid-state relay



2903286

<https://www.phoenixcontact.com/us/products/2903286>

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 |
|-------------------|-----|

Drawings

Diagram



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

ST-OV3-220DC/ 60DC/3 - Solid-state relay

2903286

<https://www.phoenixcontact.com/us/products/2903286>

Circuit diagram



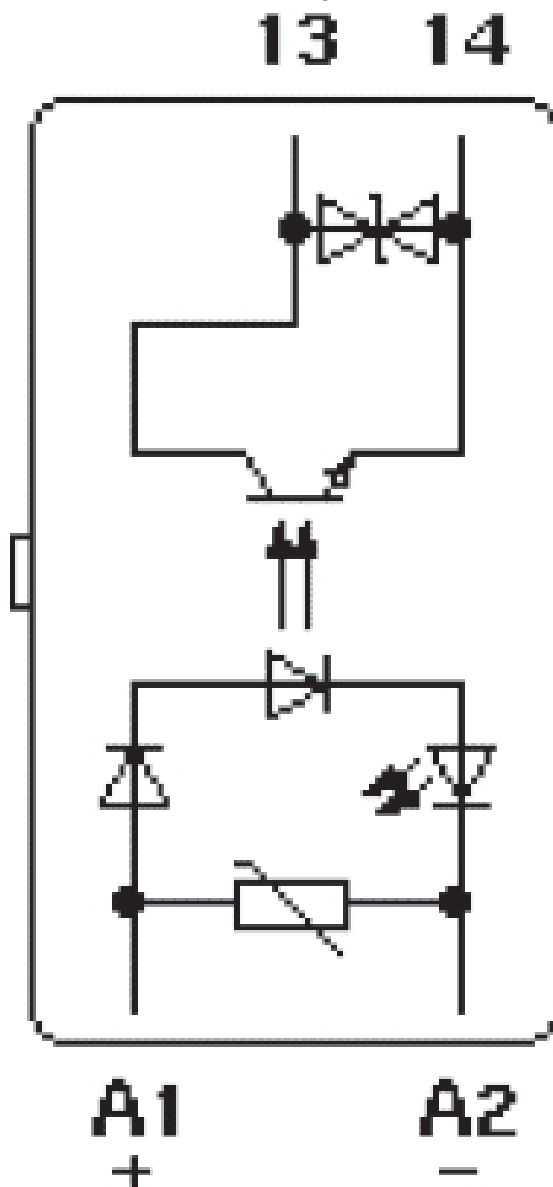
ST-OV3-220DC/ 60DC/3 - Solid-state relay

2903286

<https://www.phoenixcontact.com/us/products/2903286>



Circuit diagram



ST-OV3-220DC/ 60DC/3 - Solid-state relay



2903286

<https://www.phoenixcontact.com/us/products/2903286>

Environmental product compliance

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.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com