

# OV-24DC/ 60DC/4 - Semi-conductor relay



2982647

<https://www.phoenixcontact.com/us/products/2982647>

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.



Solid-state relay, for signal amplification and isolation of the control and load circuits, can be plugged in the solderable plug-in bases SIM-AMS or with PCB connection for mounting directly onto the PCB, input: 4.25-32 V DC, output: 1-60 V DC/4 A

## Your advantages

- Compact dimensions
- No electromagnetic interference
- No wear, even at high switching frequencies
- High test voltage of up to 4 kV between control and load circuits
- Electrically insulated housing
- No contact bounce – no movable parts
- Switching power of up to 350 V DC/1 A, 60 V DC/4 A or 480 V AC/5 A

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2982647       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C471          |
| Product key                          | DK69L1        |
| GTIN                                 | 4046356131971 |
| Weight per piece (including packing) | 24.9 g        |
| Weight per piece (excluding packing) | 24 g          |
| Customs tariff number                | 85362010      |
| Country of origin                    | CN            |

## Technical data

### Product properties

|                |                          |
|----------------|--------------------------|
| Product type   | Single solid-state relay |
| Operating mode | 100% operating factor    |

### Insulation characteristics

|            |                  |
|------------|------------------|
| Insulation | Basic insulation |
|------------|------------------|

### Data management status

|                              |            |
|------------------------------|------------|
| Date of last data management | 01.04.2026 |
|------------------------------|------------|

### Electrical properties

|                             |                                    |
|-----------------------------|------------------------------------|
| Test voltage (Input/output) | 4 kV (50 Hz, 1 min., input/output) |
|-----------------------------|------------------------------------|

### Input data

|   |                       |
|---|-----------------------|
| Nominal input voltage $U_N$             | 24 V DC               |
| Input voltage range                     | 4.25 V DC ... 32 V DC |
| Switching threshold "0" signal, voltage | < 1 V DC              |
| Switching threshold "1" signal voltage  | > 3.3 V DC            |
| Typical input current at $U_N$          | 15 mA                 |
| Typical response time                   | < 100 $\mu$ s         |
| Typical turn-off time                   | < 250 $\mu$ s         |
| Transmission frequency                  | 100 Hz                |

### Output data

|  |  |
|--|--|
| Design of digital output                         | electronic   |
| Output voltage range                             | 1 V DC ... 60 V DC                                     |
| Limiting continuous current                      | 4 A (see derating curve)                               |
| Min. load current                                | 1 mA   |
| Leakage current                                  | 100 $\mu$ A  |
| Surge current                                    | 25 A ( $t_p = 1$ s)                                    |
| Voltage drop at max. limiting continuous current | 0.5 V  |
| Output circuit                                   | 2-conductor  |
| Protective circuit                               | Reverse polarity protection; Polarity protection diode |

### Dimensions

#### Item dimensions

|        |         |
|--------|---------|
| Width  | 10.5 mm |
| Height | 43 mm   |
| Depth  | 25.4 mm |

### Material specifications

|       |                  |
|-------|------------------|
| Color | black (RAL 9005) |
|-------|------------------|

# OV-24DC/ 60DC/4 - Semi-conductor relay



2982647

<https://www.phoenixcontact.com/us/products/2982647>

## Environmental and real-life conditions

### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)         | -20 °C ... 80 °C |
| Ambient temperature (storage/transport) | -20 °C ... 80 °C |

## Approvals

### UKCA

|             |                |
|-------------|----------------|
| Certificate | UKCA-compliant |
|-------------|----------------|

## Standards and regulations

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-2 |
|                       | EN 61000-4-3 |
|                       | EN 61000-4-4 |
|                       | EN 55011     |

## Mounting

|                   |                                     |
|-------------------|-------------------------------------|
| Assembly note     | can be aligned with spacing > 20 mm |
| Mounting position | any                                 |

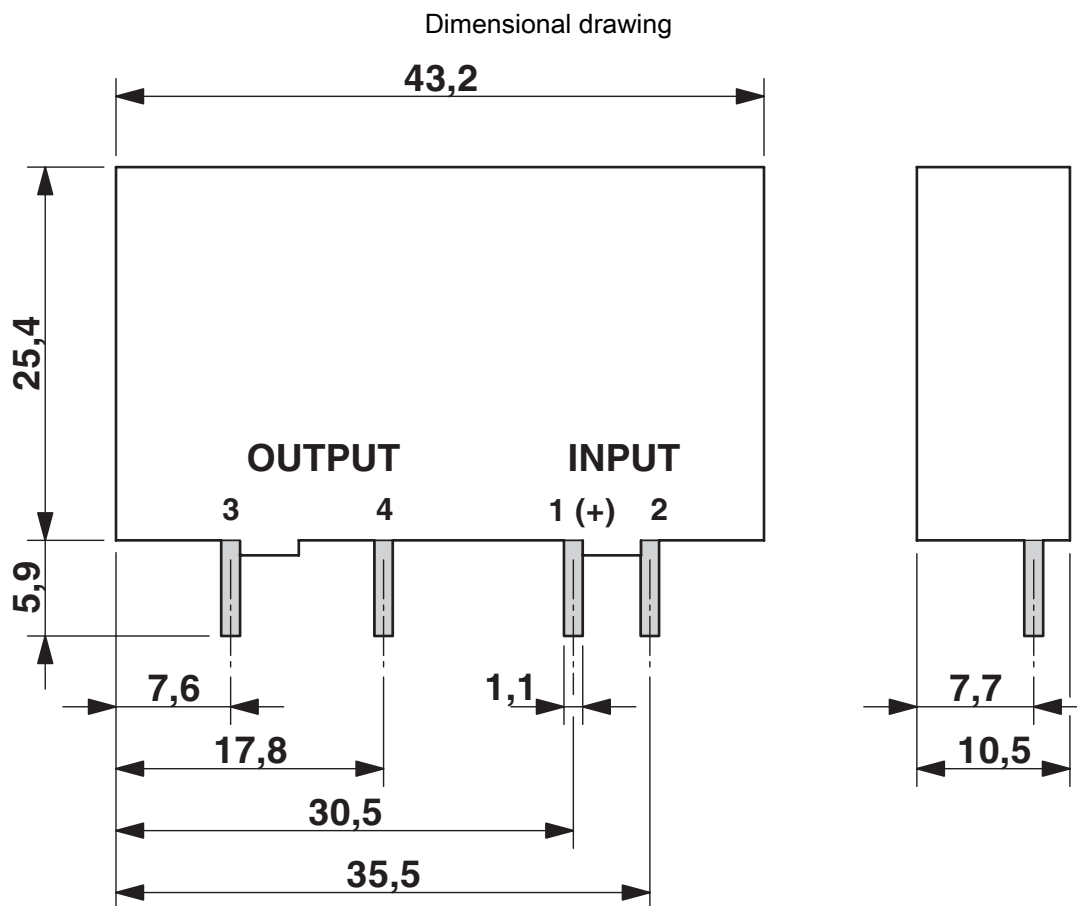
# OV-24DC/ 60DC/4 - Semi-conductor relay



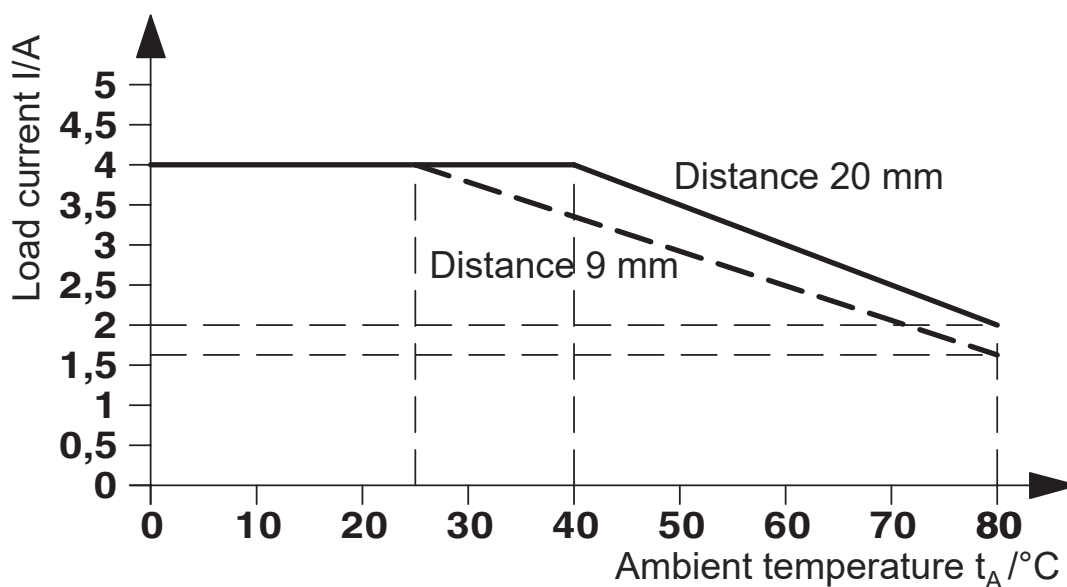
2982647

<https://www.phoenixcontact.com/us/products/2982647>

## Drawings



Diagram

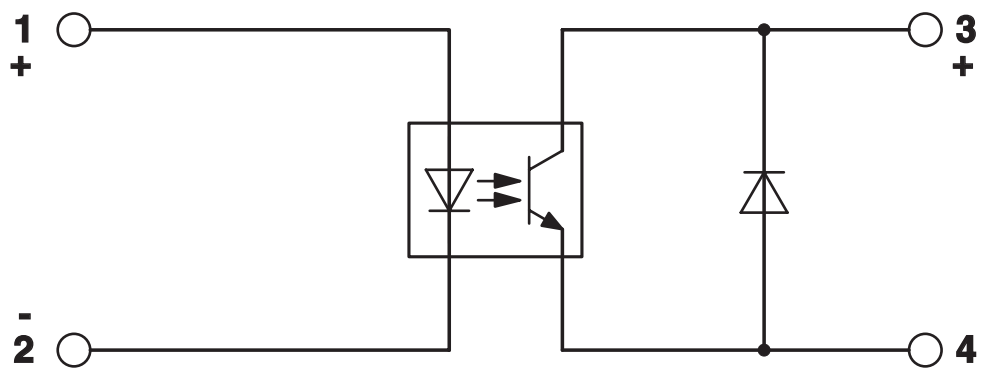


# OV-24DC/ 60DC/4 - Semi-conductor relay

2982647

<https://www.phoenixcontact.com/us/products/2982647>

Circuit diagram



# OV-24DC/ 60DC/4 - Semi-conductor relay



2982647

<https://www.phoenixcontact.com/us/products/2982647>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2982647>



**cUL Recognized**  
Approval ID: FILE E 195083



**UL Recognized**  
Approval ID: FILE E 195083

# OV-24DC/ 60DC/4 - Semi-conductor relay



2982647

<https://www.phoenixcontact.com/us/products/2982647>

## Classifications

### ECLASS

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

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001504 |
|-----------|----------|

### UNSPSC

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

# OV-24DC/ 60DC/4 - Semi-conductor relay



2982647

<https://www.phoenixcontact.com/us/products/2982647>

## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### 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% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 3.069 kg CO2e |
|---------|---------------|

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](mailto:info@phoenixcon.com)