

## Semi-conductor relay - OV-24DC/ 60DC/4 - 2982647

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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



### Key Commercial Data

Packing unit	10 pc
GTIN	 4 046356 131971
GTIN	4046356131971

### Technical data

#### Dimensions

Width	10.5 mm
Height	43 mm
Depth	25.4 mm

#### Ambient conditions

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

#### Input data

Nominal input voltage $U_N$	24 V DC
Input voltage range	4.25 V DC ... 32 V DC

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## Technical data

### Input data

Switching threshold "0" signal, voltage	< 1 V DC
Switching threshold "1" signal voltage	> 3.3 V DC
Typical input current at U <sub>N</sub>	15 mA
Typical response time	< 100 µs
Typical turn-off time	< 250 µs
Transmission frequency	100 Hz

### Output data

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 µA
Surge current	25 A (t <sub>p</sub> = 1 s)
Voltage drop at max. limiting continuous current	0.5 V
Output circuit	2-conductor
Type of protection	Reverse polarity protection
Protective circuit/component	Polarity protection diode

### General

Test voltage input/output	4 kV (50 Hz, 1 min.)
Mounting position	any
Assembly instructions	Can be aligned with > 20 mm spacing
Operating mode	100% operating factor
Standards/regulations	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 55011

### Standards and Regulations

Connection in acc. with standard	CUL
Standards/regulations	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 55011
Insulation	Basic insulation

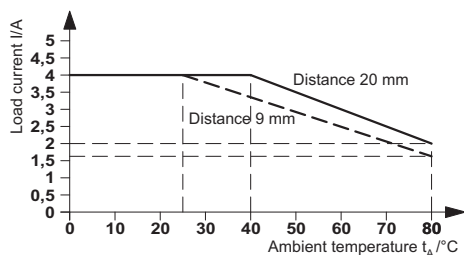
### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

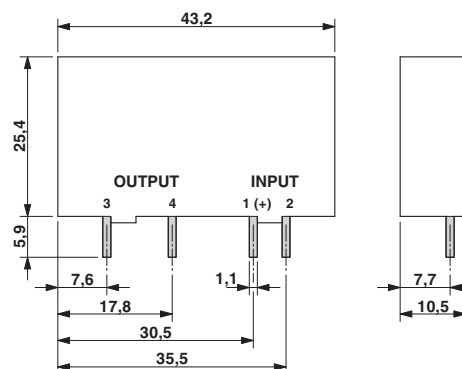
## Drawings

# Semi-conductor relay - OV-24DC/ 60DC/4 - 2982647

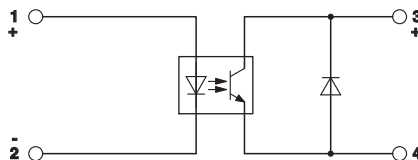
Diagram



Dimensional drawing



Circuit diagram



## Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

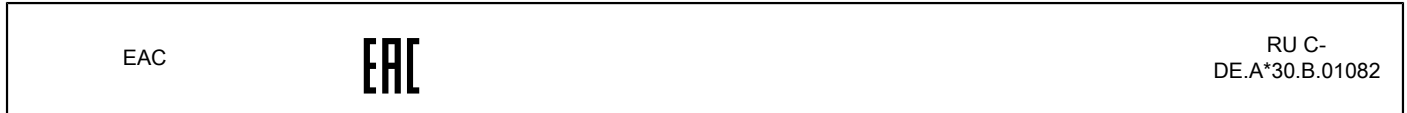
## Approval details

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 195083
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cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 195083
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### Approvals



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