

## 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

### Why buy this product

- 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 STK
GTIN	4 046356 131971

### 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
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

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## Technical data

### Input data

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 (tp = 1 s)
Voltage drop at max. limiting continuous current	0.5 V
Output circuit	2-conductor
Type of protection	Protection against polarity reversal
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
Rated surge voltage/insulation	Basic insulation

### 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
Rated surge voltage/insulation	Basic insulation

## Classifications

### eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371001
eCl@ss 5.1	27371001
eCl@ss 6.0	27371001
eCl@ss 7.0	27371001

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## Classifications

### eCl@ss

eCl@ss 8.0	27371014
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### ETIM

ETIM 2.0	EC000196
ETIM 3.0	EC000196
ETIM 4.0	EC000196
ETIM 5.0	EC002055

### UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121542
UNSPSC 11	39121542
UNSPSC 12.01	39121542
UNSPSC 13.2	39121542

## Approvals

### Approvals

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#### Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

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#### Ex Approvals

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#### Approvals submitted

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### Approval details

UL Recognized
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cUL Recognized
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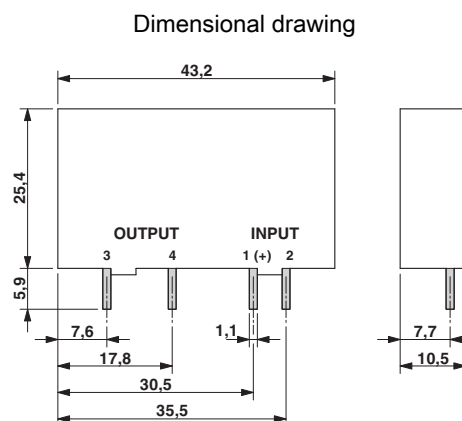
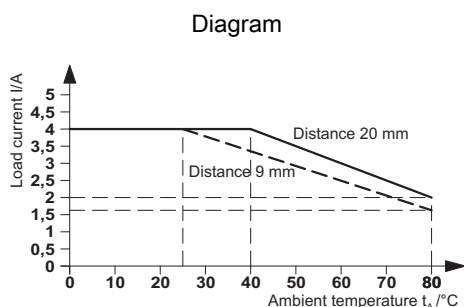
EAC
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## Approvals

cULus Recognized US

## Drawings



Circuit diagram

