

Semi-conductor relay - OV-24DC/480AC/5 - 2982650

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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: 4-32 V DC, output: 12-530 V AC/ 5 A

Product Features

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

Key commercial data

package_quantity	10
GTIN	4046356131667

Technical data

Dimensions

Width	10.5 mm
Height	43 mm
Depth	25.4 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 70 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

Input data

Nominal input voltage U_N	24 V DC
Input voltage range	4 V DC ... 32 V DC
Switching threshold "0" signal, voltage	< 1.2 V DC
Switching threshold "1" signal voltage	> 3.5 V DC
Typical input current at U_N	10 mA
Typical response time	ms (maximum ½ periods)
Typical turn-off time	ms (maximum ½ periods)
Transmission frequency	25 Hz

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Output data

Output voltage range	12 V AC ... 530 V AC (45/65 Hz)
Limiting continuous current	5 A (see derating curve)
Min. load current	20 mA
Leakage current	< 1 mA
Surge current	80 A (tp = 20 ms)
Max. load value	50 A ² s
Peak offstate voltage	1000 V (Periodic peak reverse voltage)
Voltage drop at max. limiting continuous current	1.2 V
Output circuit	2-conductor

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
Standards/regulations	EN 61000-4-3
Standards/regulations	EN 61000-4-4
Standards/regulations	EN 61000-4-5
Standards/regulations	EN 61000-4-6
Standards/regulations	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
eCl@ss 8.0	27371001

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

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classifications

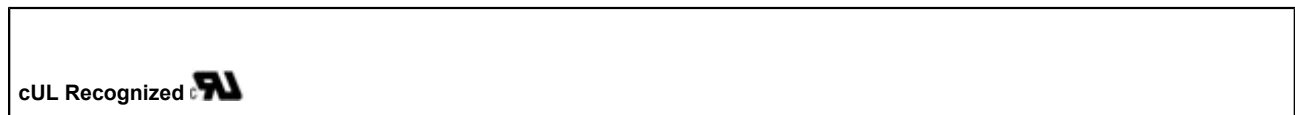
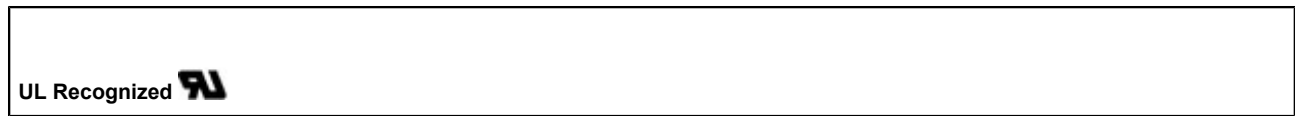
UNSPSC

UNSPSC 11	39121542
UNSPSC 12.01	39121542
UNSPSC 13.2	39121542

approvals

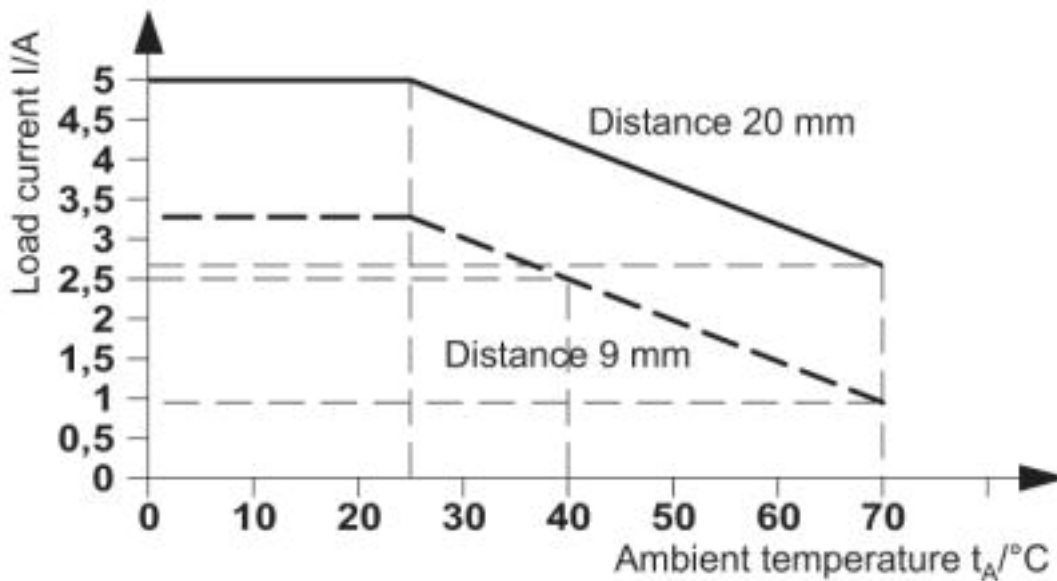
UL Recognized / cUL Recognized / cULus Recognized /

Approval details



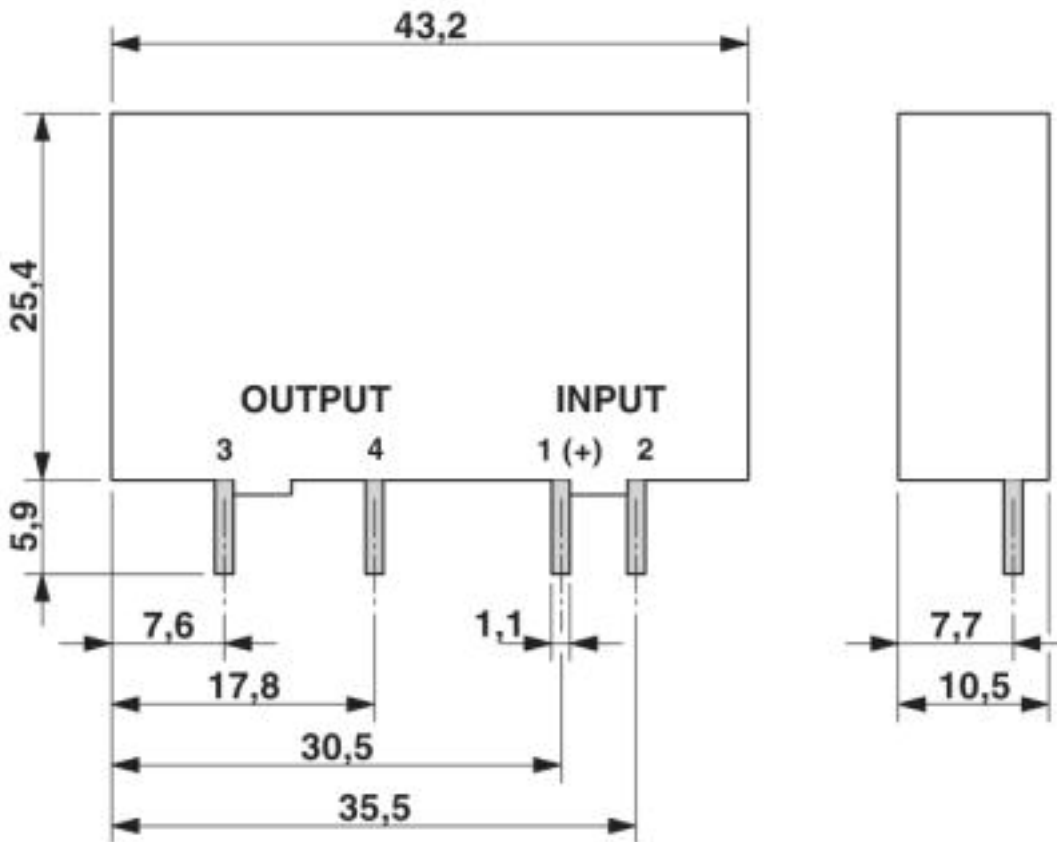
Drawings

Diagram



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Dimensioned drawing



Circuit diagram

