

Miniature solid-state relay - OPT-24DC/230AC/ 2 - 2982171

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Plug-in miniature solid-state relay, power solid-state relay, input: 24 V DC, output: 24 - 253 V AC/2 A

Product Features

- Vibration and shock resistant
- RT III wash tight (comparable with IP67)
- Wear-free and durable
- Can be soldered on PCB
- Zero voltage switch at AC output
- Switching power of up to 24 V DC/5 A

Key commercial data

package_quantity	10
GTIN	4017918996970

Technical data

Dimensions

Width	12.7 mm
Height	29 mm
Depth	15.7 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Degree of protection	IP64

Input data

Nominal input voltage U_N	24 V DC
Input voltage range in reference to U_N	0.8 ... 1.2
Switching threshold "0" signal, voltage	< 8.4 V DC
Switching threshold "1" signal voltage	> 18 V DC
Typical input current at U_N	7 mA
Typical response time	10 ms
Typical turn-off time	10 ms
Type of protection	Protection against polarity reversal
Protective circuit/component	Polarity protection diode

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Technical data

Input data

Transmission frequency	10 Hz
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Output data

Output nominal voltage	230 V AC
Output voltage range	24 V AC ... 253 V AC
Limiting continuous current	2 A (see derating curve)
Maximum inrush current	30 A (10 ms)
Min. load current	25 mA
Leakage current	typ. 1 mA
Surge current	30 A (10 ms)
Max. load value	4 A ² s (tp = 10 ms, at 25 °C)
Voltage drop at max. limiting continuous current	≤ 1 V
Output circuit	2-conductor floating, zero voltage switch
Type of protection	Surge protection
Protective circuit/component	RC element

General

Test voltage input/output	2.5 kV (50 Hz, 1 min.)
Mounting position	Any
Assembly instructions	See derating curve
Operating mode	100% operating factor
Inflammability class according to UL 94	V0
Name	Standards/regulations
Standards/regulations	IEC 60664
Standards/regulations	EN 50178
Standards/regulations	IEC 62103
Rated surge voltage / insulation	Basic insulation
Rated insulation voltage	250 V AC
Pollution degree	2
Surge voltage category	III

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	27371604
eCl@ss 7.0	27371604
eCl@ss 8.0	27371604

ETIM

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classifications

ETIM

ETIM 2.0	EC001504
ETIM 3.0	EC001504
ETIM 4.0	EC001504
ETIM 5.0	EC001504

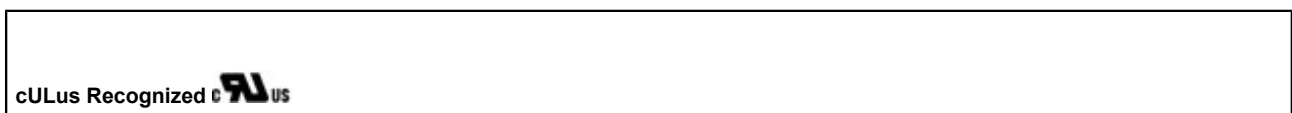
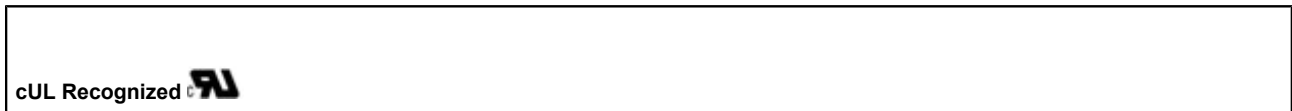
UNSPSC

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

approvals

UL Recognized / cUL Recognized / UL Recognized / cUL Recognized / cULus Recognized /

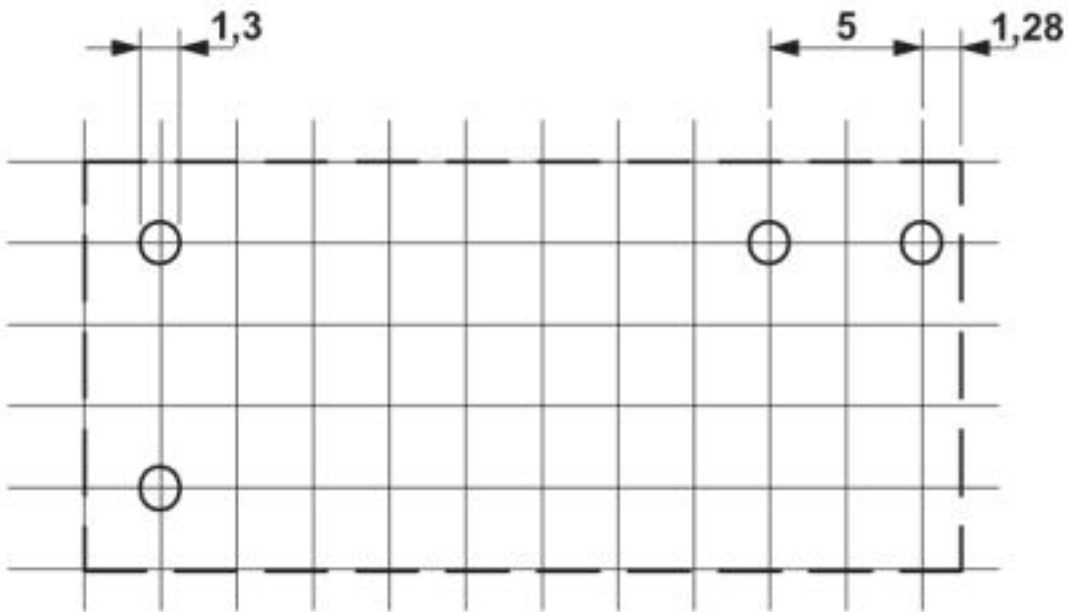
Approval details



Drawings

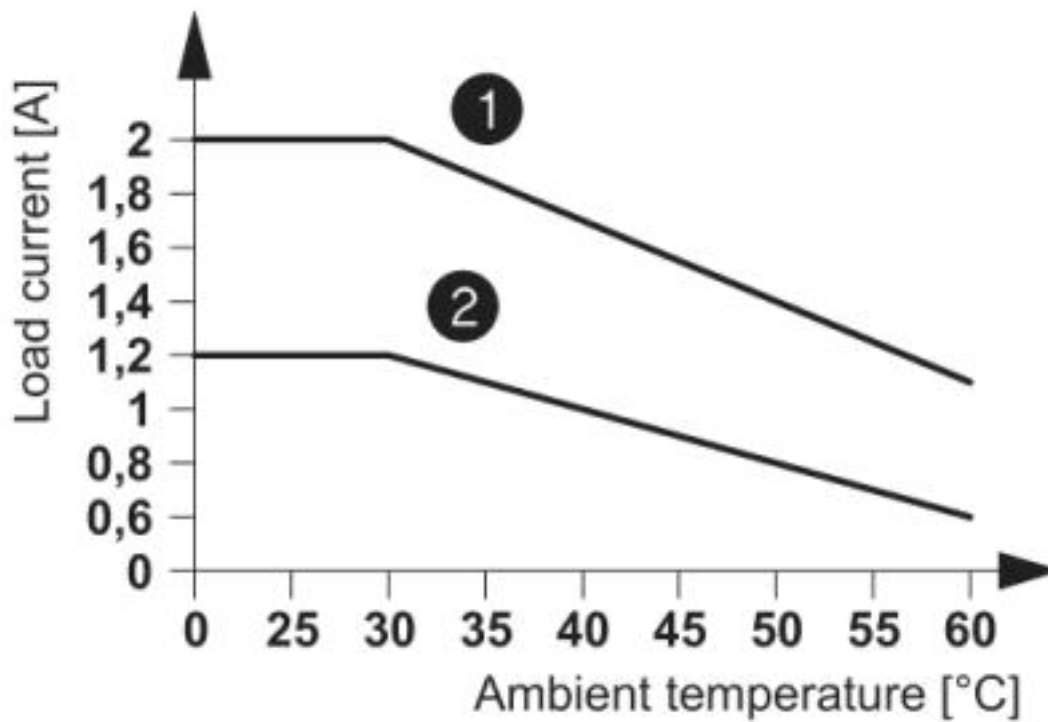
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Drilling diagram



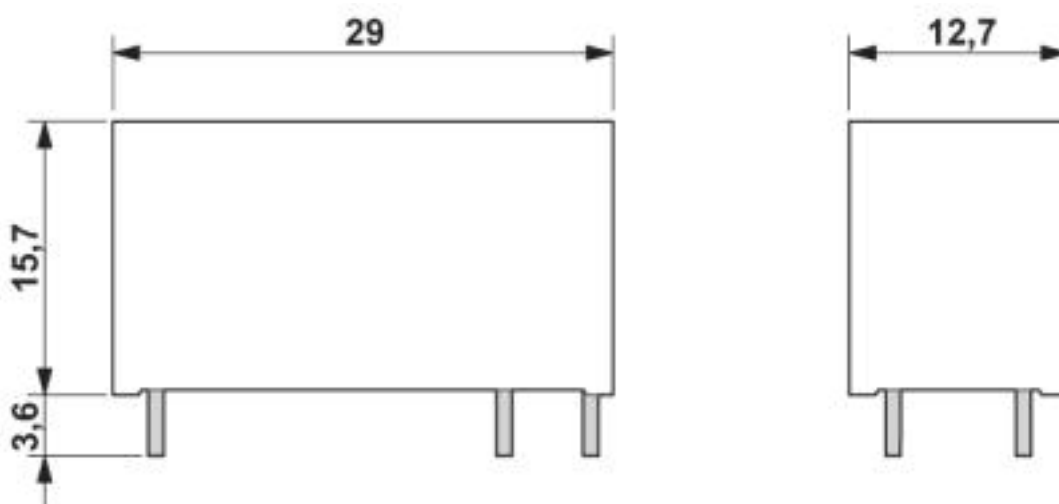
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Diagram



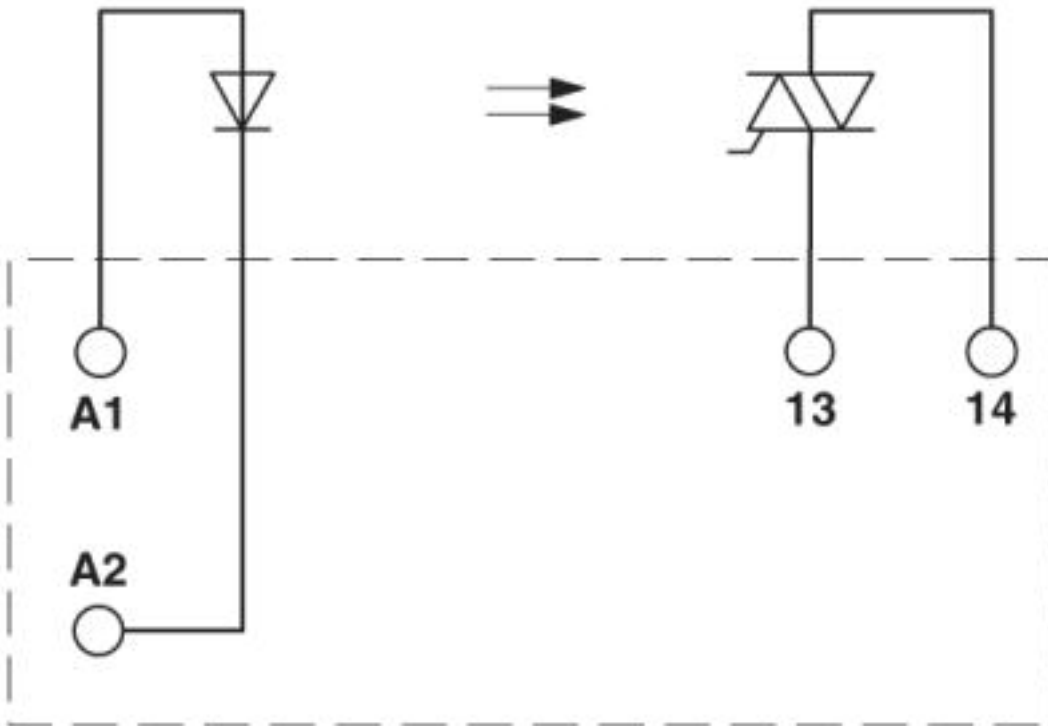
- 1 In rows with 10 mm spacing
- 2 In rows with zero spacing

Dimensioned drawing



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Circuit diagram



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