

Miniature solid-state relay - OPT-24DC/ 24DC/ 2 - 2966595

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Plug-in miniature solid-state relay, power solid-state relay, input: 24 V DC, output: 3 - 33 V DC/3 A




The illustration shows the version OPT-24DC/48DC/100

Product Features

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



Key commercial data

Packing unit	1 PCE
Minimum order quantity	10 PCE
Catalog page	Page 100 (IF-2011)
GTIN	 4 017918 130947
Custom tariff number	85364190
Country of origin	HUNGARY

Technical data

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	≤ 10 V
Switching threshold "1" signal voltage	≥ 16 V

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Technical data

Input data

Typical input current at U_N	7 mA
Typical response time	20 μ s (at U_N)
Typical turn-off time	300 μ s (at U_N)
Transmission frequency	300 Hz

Output data

Output voltage range	3 V DC ... 33 V DC
Limiting continuous current	3 A (see derating curve)
Maximum inrush current	15 A (10 ms)
Voltage drop at max. limiting continuous current	\leq 150 mV
Output circuit	2-wire, floating
Type of protection	Protection against polarity reversal
Type of protection	Surge protection

General data

Width	5 mm
Height	28 mm
Depth	15 mm
Test voltage input/output	2.5 kV (50 Hz, 1 min.)
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Mounting position	Any
Assembly instructions	In rows with zero spacing
Operating mode	100% operating factor
Name	Standards/regulations
Standards/regulations	IEC 60664
Standards/regulations	EN 50178
Standards/regulations	IEC 62103
Rated surge voltage / insulation	Basic insulation
Pollution degree	2
Surge voltage category	III

Classifications

ETIM

ETIM 2.0	EC001504
ETIM 3.0	EC001504
ETIM 4.0	EC001504

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Classifications

ETIM

ETIM 5.0	EC001504
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UNSPSC

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

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

Approvals

Approvals

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UL Recognized / cUL Recognized / GOST / GL / UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

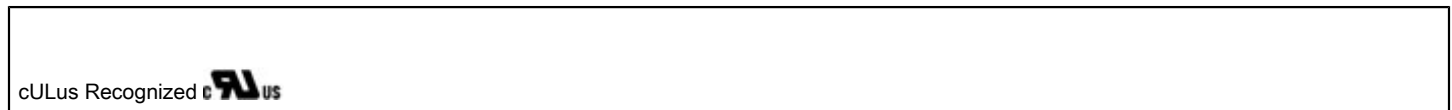
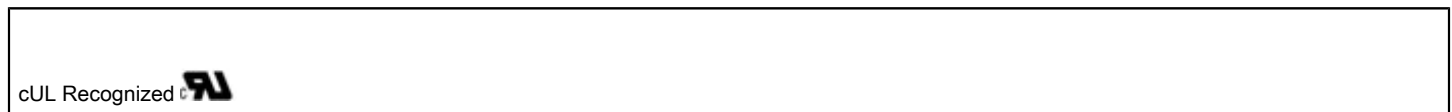
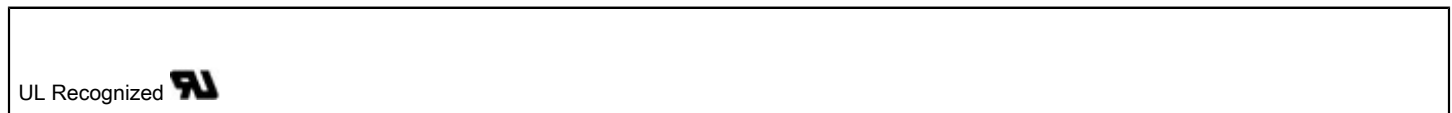
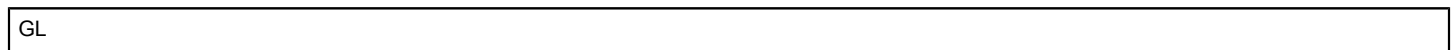
Approvals submitted

Approval details

UL Recognized

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Approvals



Accessories

Additional products

Relay socket - PLC-BPT- 24DC/21 - 2900445



6.2 mm PLC basic terminal blocks with Push-in connection, 24 V DC input voltage (without relay or optocoupler)

Relay socket - PLC-BSC- 24DC/21 - 2966016



6.2 mm PLC basic terminal blocks with screw connection, 24 V DC input voltage (without relay or optocoupler)

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Accessories

Relay socket - PLC-BSC- 24DC/21 - 2966016



6.2 mm PLC basic terminal blocks with screw connection, 24 V DC input voltage (without relay or optocoupler)

Basic terminal block - PLC-BSC- 36DC/21 - 2966964

Basic terminal block

Relay socket - PLC-BPT- 48DC/21 - 2900447



6.2 mm PLC basic terminal blocks with Push-in connection, 48 V DC input voltage (without relay or optocoupler)

Relay socket - PLC-BSP- 48DC/21 - 2967329



6.2 mm PLC basic terminal blocks with spring-cage connection, 48 V DC input voltage (without relay or optocoupler)

Relay socket - PLC-BSC- 48DC/21 - 2966090



6.2 mm PLC basic terminal blocks with screw connection, 48 V DC input voltage (without relay or optocoupler)

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Accessories

Relay socket - PLC-BPT- 24DC/ 1/SEN - 2900262



6.2 mm PLC sensor basic terminal block with sensor supply voltage distribution (BB), Push-in connection, 24 V DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.

Relay socket - PLC-BSP- 24DC/ 1/SEN - 2967206



6.2 mm PLC sensor basic terminal block with sensor supply voltage distribution (BB), spring-cage connection, 24 V DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.

Relay socket - PLC-BSC- 24DC/ 1/SEN - 2966061



6.2 mm PLC sensor basic terminal block with sensor supply voltage distribution (BB), screw connection, 24 V DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.

Relay socket - PLC-BPT- 24DC/ 1/ACT - 2900449



6.2 mm PLC actuator basic terminal block with load return line connection (BB), Push-in connection, 24 V DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.

Relay socket - PLC-BSP- 24DC/ 1/ACT - 2967196



6.2 mm PLC actuator basic terminal block with load return line connection (BB), spring-cage connection, 24 V DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.

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Accessories

Relay socket - PLC-BSC- 24DC/ 1/ACT - 2966058



6.2 mm PLC actuator basic terminal block with load return line connection (BB), screw connection, 24 V DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.

Relay socket - PLC-BPT- 24UC/ 1/ACT - 2900450



6.2 mm PLC actuator basic terminal block with load return line connection (BB), Push-in connection, 24 V AC/DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.

Relay socket - PLC-BSP- 24UC/ 1/ACT - 2982809



6.2 mm PLC actuator basic terminal block with load return line connection (BB), spring-cage connection, 24 V AC/DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.

Relay socket - PLC-BSC- 24UC/ 1/ACT - 2982799



6.2 mm PLC actuator basic terminal block with load return line connection (BB), screw connection, 24 V AC/DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.

Relay socket - PLC-BSC- 24DC/21/SO46 - 2980458

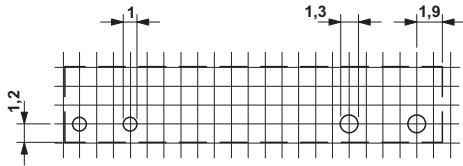


6.2 mm PLC basic terminal blocks with screw connection and integrated filter against interference currents and voltages on the control side, 24 V DC input voltage (without relay or optocoupler)

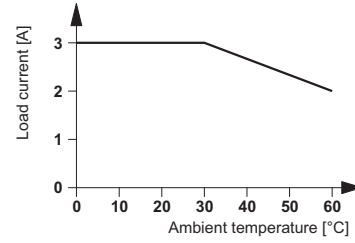
Drawings

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Drilling diagram

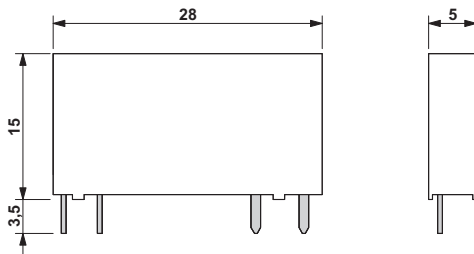


Diagram



a = pitch division 1.25 mm and 1.27 mm

Dimensioned drawing



Circuit diagram

