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Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 3 - 33 V DC/5 A

The illustration shows the version OPT-24DC/24DC/5

Product Features

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



Key commercial data

Packing unit	1 pc
Minimum order quantity	10 pc
Weight per Piece (excluding packing)	11.74 GRM
Custom tariff number	85364190
Country of origin	Hungary

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



Technical data

Ambient conditions

Rated surge voltage/insulation

Rated insulation voltage

Pollution degree

Degree of protection	IP67	
Input data	nput 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	
Typical input current at U _N	7 mA	
Typical response time	20 µs	
Typical turn-off time	400 µs	
Type of protection	Protection against polarity reversal	
Protective circuit/component	Polarity protection diode	
Transmission frequency	300 Hz	
Output data		
Output nominal voltage	24 V DC	
Output voltage range	3 V DC 33 V DC	
Limiting continuous current	5 A (see derating curve)	
Maximum inrush current	15 A (10 ms)	
Surge voltage protection	> 33 V DC	
Voltage drop at max. limiting continuous current	≤ 200 mV	
Output circuit	2-wire, floating	
Type of protection	Protection against polarity reversal	
	Surge protection	
Protective circuit/component	Polarity protection diode	
General		
Test voltage input/output	2.5 kV (50 Hz, 1 min.)	
Assembly instructions	In rows with zero spacing	
Operating mode	100% operating factor	
Inflammability class according to UL 94	V0	
Designation	Standards/regulations	
Standards/regulations	IEC 60664	
	EN 50178	
	IEC 62103	

Basic insulation

2



Technical data

General

Surge voltage category	Ш

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

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

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

Ex Approvals

Approvals submitted



Approvals

Approval details

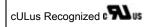
UL Recognized 🔊

cUL Recognized 🔊

GL

cUL Recognized 🔊

UL Recognized 🔊



Accessories

Additional products

Relay socket - PLC-BPT- 24DC/21-21 - 2900283



14 mm PLC basic terminal block with push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 2 PDTs, input voltage 24 V DC



Accessories

Relay socket - PLC-BSP- 24DC/21-21 - 2912439



14 mm PLC basic terminal block with spring-cage connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 2 PDTs, input voltage 24 V DC

Relay socket - PLC-BSC- 24DC/21-21 - 2967015



14 mm PLC basic terminal block with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 2 PDTs, input voltage 24 V DC

Relay socket - PLC-BPT- 48DC/21-21 - 2900285



14 mm PLC basic terminal block with push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 2 PDTs, input voltage 48 V DC

Relay socket - PLC-BSP- 48DC/21-21 - 2912455



14 mm PLC basic terminal block with spring-cage connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 2 PDTs, input voltage 48 V DC

Relay socket - PLC-BSC- 48DC/21-21 - 2967264



14 mm PLC basic terminal block with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 2 PDTs, input voltage 48 V DC



Accessories

Relay socket - PLC-BPT- 24DC/ 1IC/ACT - 2900260



14 mm PLC basic terminal block for high switch-on currents with push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with load return line connection (BB), 1 N/O contact, input voltage 24 V DC

Relay socket - PLC-BSP- 24DC/ 1IC/ACT - 2912400



14 mm PLC basic terminal block for high switch-on currents with spring-cage connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with load return line connection (BB), 1 N/O contact, input voltage 24 V DC

Relay socket - PLC-BSC- 24DC/ 1IC/ACT - 2967837



14 mm PLC basic terminal block for high switch-on currents with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with load return line connection (BB), 1 N/O contact, input voltage 24 V DC

Relay socket - PLC-BPT- 24DC/21HC - 2900254



14 mm PLC basic terminal block for high continuous currents with push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 PDT, input voltage 24 V DC

Relay socket - PLC-BSP- 24DC/21HC - 2912345



14 mm PLC basic terminal block for high continuous currents with spring-cage connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 PDT, input voltage 24 V DC



Accessories

Relay socket - PLC-BSC- 24DC/21HC - 2967772



14 mm PLC basic terminal block for high continuous currents with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 PDT, input voltage 24 V DC

Relay socket - PLC-BPT- 24DC/ 1IC/ACT - 2900260



14 mm PLC basic terminal block for high switch-on currents with push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with load return line connection (BB), 1 N/O contact, input voltage 24 V DC

Relay socket - PLC-BSP- 48DC/21HC - 2912361



14 mm PLC basic terminal block for high continuous currents with spring-cage connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 PDT, input voltage 48 V DC

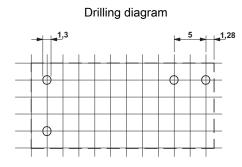
Relay socket - PLC-BSC- 48DC/21HC - 2967798



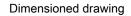
14 mm PLC basic terminal block for high continuous currents with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 PDT, input voltage 48 V DC

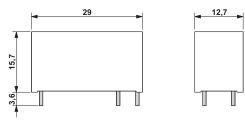
Drawings

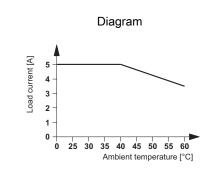


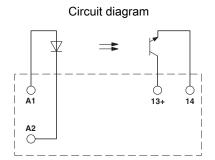


Basic pitch 2.5 mm









Pin assignments: View of the connections

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