

Solid-state relay module - PLC-OPT- 24DC/ 24DC/10/R - 2900398

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PLC-INTERFACE with confirmation contact, consisting of basic terminal block with push-in connection and integrated miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 3 - 33 V DC/10 A

The figure shows a version with a screw connection

Product Features

- Resistant to vibrations and shocks
- Wear-free switching with no contact bounce
- Protective circuit in input and output
- Status indicator
- Option of bridging adjacent modules



Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	34.64 GRM
Custom tariff number	85364190
Country of origin	Germany

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	6.2 mm
Height	80 mm
Depth	86 mm

Ambient conditions

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Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	IP20

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 in reference to U_N	≤ 0.4
Switching threshold "1" signal in reference to U_N	≥ 0.8
Typical input current at U_N	3 mA
Typical response time	0.15 ms
Typical turn-off time	1 ms
Operating voltage display	Yellow LED
Type of protection	Protection against polarity reversal
	Surge protection
Protective circuit/component	Polarity protection diode
Transmission frequency	100 Hz

Output data

Designation	Output data
Output voltage range	5 V DC ... 33 V DC
Limiting continuous current	10 A (see derating curve)
Maximum inrush current	100 A (t = 20 ms)
Voltage drop at max. limiting continuous current	≤ 50 mV
Output circuit	3-conductor, ground-referenced
Type of protection	Protection against polarity reversal
	Surge protection
Protective circuit/component	Polarity protection diode
Designation	Alarm output
Limiting continuous current	100 mA
Voltage drop at max. limiting continuous current	< 1.2 V
Indication	Red LED
Type of protection	Protection against polarity reversal
	Surge protection
Protective circuit/component	Polarity protection diode
	Suppressor diode

Connection data

Connection method	Push-in connection
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Technical data

Connection data

Stripping length	8 mm
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.14 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	14

General

Mounting position	any
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
Rated surge voltage / insulation	4 kV / basic insulation
Rated insulation voltage	300 V
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	27371001
eCl@ss 7.0	27371001
eCl@ss 8.0	27371001

ETIM

ETIM 2.0	EC001504
ETIM 3.0	EC001504
ETIM 4.0	EC000196
ETIM 5.0	EC000196

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Classifications

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


Ex Approvals

Approvals submitted

Approval details

UL Listed 

cUL Listed 

UL Recognized 

cUL Recognized 

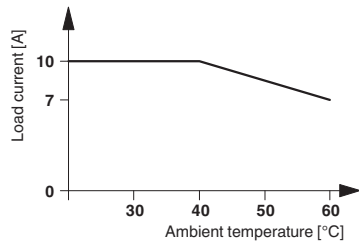
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Approvals



Drawings

Diagram



Circuit diagram

