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Solid-state relay module - PLC-OPT- 24DC/24DC/100KHZ-G - 2902974

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Input solid-state relay, with DC voltage output push-pull, transmission frequency: 100 kHz, with light indicator and protective circuit in input and output circuits, input: 24 V DC, output: 14 - 30 V DC/50 mA

The figure shows a version with a screw connection

Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 702782

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

Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 75 °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	8 mA
Typical response time	1 μ s
Typical turn-off time	2 μ s
Operating voltage display	Yellow LED
Type of protection	Protection against polarity reversal

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Technical data

Input data

	Surge protection
Surge voltage protection	> 33 V
Transmission frequency	100 kHz

Output data

Designation	Output data
Output voltage range	14 V DC ... 30 V DC
Limiting continuous current	50 mA
Quiescent current	15 mA
Surge voltage protection	> 35 V
Voltage drop at max. limiting continuous current	< 2.2 V
Output circuit	3-conductor push-pull, ground referenced
Type of protection	Protection against polarity reversal
	Surge protection

Connection data, input side

Connection name	Input side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross section AWG	26 ... 14

Connection data, output side

Connection name	Output side
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross section AWG	26 ... 14

General

Test voltage input/output	2.5 kV _{rms} (50 Hz, 1 min.)
Mounting position	any
Assembly instructions	In rows with zero spacing
Operating mode	100% operating factor
Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Rated surge voltage/insulation	0.5 kV / basic insulation
Rated insulation voltage	50 V DC
Degree of pollution	2
Overvoltage category	II

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Technical data

Standards and Regulations

Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Rated insulation voltage	50 V DC
Rated surge voltage/insulation	0.5 kV / basic insulation
Degree of pollution	2
Overvoltage category	II

Classifications

eCl@ss

eCl@ss 4.0	27371001
eCl@ss 4.1	27371001
eCl@ss 5.0	27371001
eCl@ss 5.1	27371001
eCl@ss 6.0	27371001
eCl@ss 7.0	27371001
eCl@ss 8.0	27371604

ETIM

ETIM 3.0	EC001504
ETIM 4.0	EC000196
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

Approvals

Approvals

EAC

Ex Approvals

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Approvals

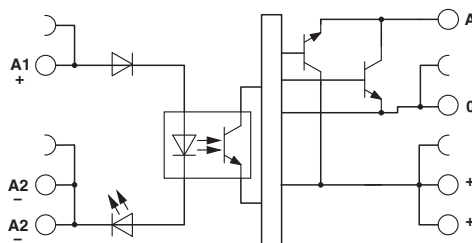
Approvals submitted

Approval details

EAC

Drawings

Circuit diagram



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Product	Code	Reference	Product link
Input solid-state relay, with DC voltage output push-pull, transmission frequency: 100 kHz, with light indicator and protective circuit in input and output circuits, input: 24 V DC, output: 14 - 30 V DC/50 mA	2902974	PLC-OPT-24DC/24DC/100KHZ-G	Buy on EAN