

PLC-OPT- 24DC/ 24DC/2 - Solid-state relay module



2900364

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PLC-INTERFACE, consisting of PLC-BPT.../21 basic terminal block with push-in connection and plug-in 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/3 A

Your advantages

- Slim design
- Efficient connection to system cabling using V8 adapter
- RT III sealed solid-state relay
- Functional plug-in bridges
- Zero voltage switch at AC output
- Integrated input circuit
- High switching power

Commercial data

Item number	2900364
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	C462
Product key	DK62A3
Catalog page	Page 373 (C-5-2019)
GTIN	4046356508780
Weight per piece (including packing)	33.31 g
Weight per piece (excluding packing)	31.25 g
Customs tariff number	85364190
Country of origin	DE

Technical data

Product properties

Product type	Solid-state relay module
Product family	PLC-INTERFACE
Application	Universal
Operating mode	100% operating factor

Insulation characteristics: Standards/regulations

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Data management status

Date of last data management	20.03.2025
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Electrical properties

Maximum power dissipation for nominal condition	0.2 W
Test voltage (Input/output)	2.5 kV (50 Hz, 1 min., input/output)

Input data

Nominal input voltage U_N	24 V DC
Nominal voltage (plugged-in solid-state relay)	24 V DC
Input voltage range in reference to U_N	0.8 ... 1.2
Input voltage range	19.2 V DC ... 28.8 V DC
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	8.5 mA
Typical response time	20 μ s (at U_N)
Typical turn-off time	300 μ s (at U_N)
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection; Polarity protection diode Freewheeling diode; Freewheeling diode
Transmission frequency	300 Hz

Output data

Contact switching type	1 N/O contact
Design of digital output	electronic
Contact connection type	Power contact
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	≤ 200 mV
Output circuit	2-conductor, floating

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Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection

Connection data

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section rigid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
	0.2 mm ² ... 2.5 mm ² (Single ferrule)
	2x 0.5 mm ² ... 1 mm ² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0 (Housing)

Environmental and real-life conditions

Ambient conditions	
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C

Approvals

CE	
Certificate	CE-compliant

UKCA	
Certificate	UKCA-compliant

Shipbuilding approval	
Certificate	TAE0000196

Corrosive gas test	
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Shipbuilding data	
Temperature	D
Humidity	A
Vibration	B/C
EMC	B

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Enclosure

Required protection according to the Rules shall be provided upon installation on board

EMC data

Electromagnetic compatibility

Conformance with EMC directive

Low Voltage Directive

Conformance with Low Voltage Directive

Standards and regulations

Standards/regulations

Standards/regulations

IEC 60947-5-1

Mounting

Mounting type

DIN rail mounting

Assembly note

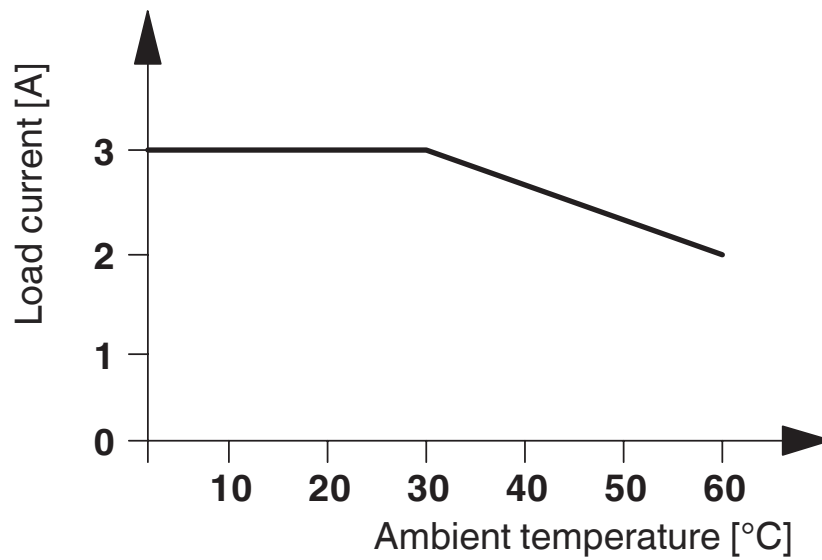
in rows with zero spacing

Mounting position

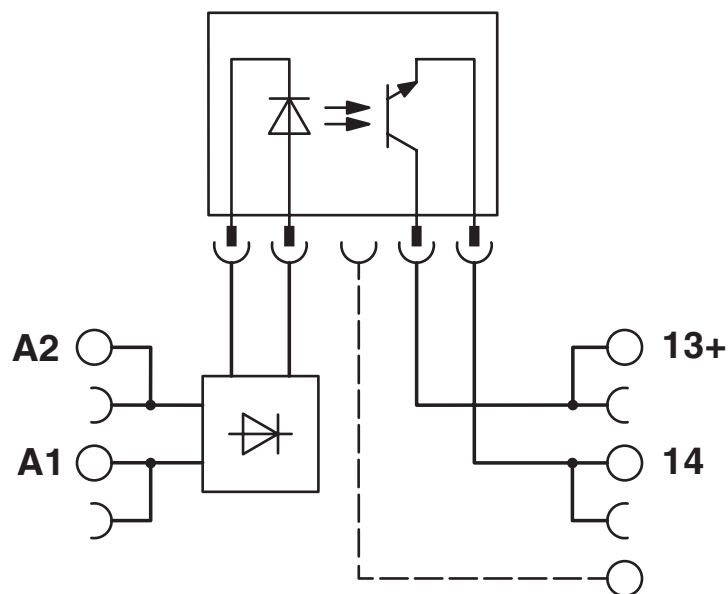
any

Drawings

Diagram



Circuit diagram



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Approvals

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DNV GL

Approval ID: TAE0000196



cULus Listed

Approval ID: E140324

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Classifications

ECLASS

ECLASS-13.0	27371604
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ETIM

ETIM 9.0	EC001504
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UNSPSC

UNSPSC 21.0	39122300
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
SCIP	d11348b9-49c8-4d3e-936a-6d5c152a9ba6

EF3.0 Climate Change

CO2e kg	0.305 kg CO2e
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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com