

2900378

https://www.phoenixcontact.com/us/products/2900378

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PLC-INTERFACE with electronic changeover contact, consisting of PLC-BPT.../21 basic terminal block with Push-in connection and integrated miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input: 24 V DC, output: 3-48 V DC/500 mA

#### Your advantages

- · Wear-free switching with no contact bounce
- · Resistant to vibrations and shocks
- · Protective circuit in input and output
- · Option of bridging adjacent modules
- DC voltage outputs of up to 300 V DC/1 A or up to 24 V DC/10 A
- Electronic changeover contact output up to 48 V DC/500 mA
- · Status indicator

#### Commercial data

Item number	2900378
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	CK62A3
Catalog page	Page 409 (C-5-2019)
GTIN	4046356506977
Weight per piece (including packing)	28.89 g
Weight per piece (excluding packing)	29.46 g
Customs tariff number	85364190
Country of origin	DE



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### Technical data

#### Product properties

Product type	Solid-state relay module
Product family	PLC-INTERFACE
Application	With integrated solid-state relay
Operating mode	100% operating factor
Data management status	
Date of last data management	16.09.2024
Article revision	07
nsulation characteristics: Standards/regulations	
Insulation	Basic insulation
0 11 1	III
Overvoltage category	

#### Ε

Maximum power dissipation for nominal condition	0.07 W
Standards/regulations	
Rated insulation voltage	300 V
Rated surge voltage	4 kV

#### Input data

Input voltage range in reference to U <sub>N</sub>	0.8 1.2
Input voltage range	19.2 V DC 28.8 V DC
Switching threshold "0" signal in reference to U <sub>N</sub>	≤ 0.4
Switching threshold "1" signal in reference to U <sub>N</sub>	≥ 0.8
Typical input current at U <sub>N</sub>	3 mA
Typical response time	0.03 ms
Typical turn-off time	0.15 ms
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection
Transmission frequency	1000 Hz

### Output data

Contact switching type	1 changeover contact
Design of digital output	electronic
Contact connection type	Power contact
Output voltage range	3 V DC 48 V DC
Limiting continuous current	500 mA (see derating curve)
Min. load current	1 mA



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Itage drop at max. limiting continuous current	< 1.2 V
Dutput circuit	2-conductor, floating
Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection
ection data	
Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section rigid	0.14 mm² 2.5 mm²
Conductor cross section flexible	0.14 mm² 2.5 mm²
	0.2 mm² 2.5 mm² (Single ferrule)
	2x 0.5 mm² 1 mm² (TWIN ferrule)
Conductor cross section AWG	26 14
nsions	
Vidth	6.2 mm
Height	80 mm
Depth	94 mm
rial specifications	
Color	gray (RAL 7042)
Flammability rating according to UL 94	V0 (Housing)
onmental and real-life conditions	
bient conditions	
Ambient temperature (operation)	-25 °C 60 °C
Ambient temperature (storage/transport)	-40 °C 85 °C

#### Α

#### Corrosive gas test

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

#### Standards and regulations

#### Standards/regulations

Standards/regulations	IEC 60664
	EN 50178

#### Mounting

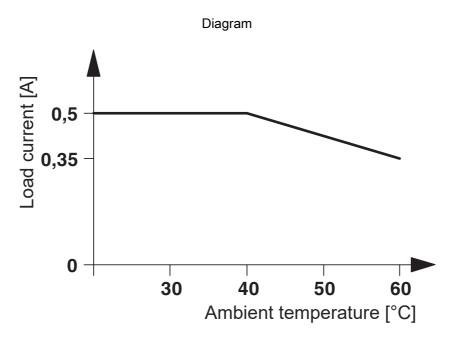
Mounting type	DIN rail mounting
Thread type	()
Assembly note	in rows with zero spacing
Mounting position	any



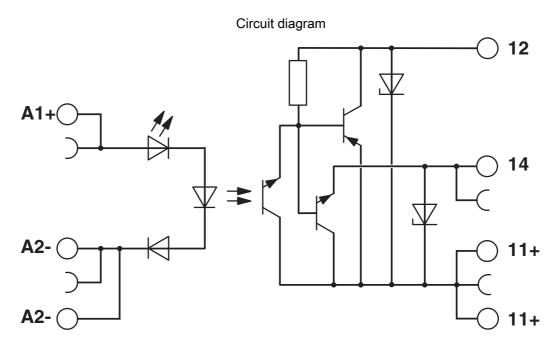
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### Drawings



The figure shows the derating curve for PLC-...24DC/48DC/500/W

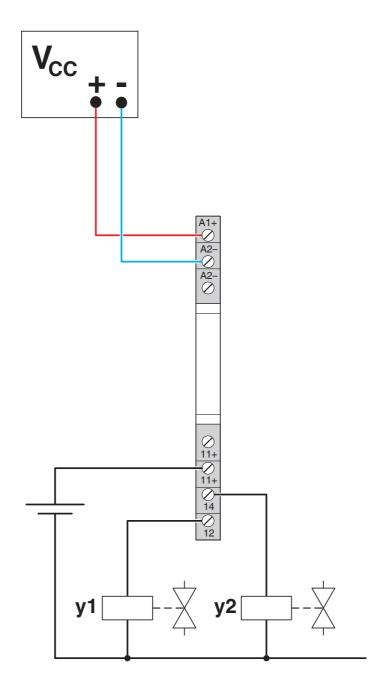




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### Application drawing





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### **Approvals**

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**cUL Recognized**Approval ID: E238705



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EAC

Approval ID: TR\_TS\_D\_00573\_c



**UL Listed** 

Approval ID: FILE E 172140



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### Classifications

UNSPSC 21.0

#### **ECLASS**

ECLASS-11.0	27371604
ECLASS-13.0	27371604
ECLASS-12.0	27371604
ETIM	
ETIM 9.0	EC001504
UNSPSC	

39122300



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### Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
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.)	Lead(CAS: 7439-92-1)
SCIP	0e235f68-d7d4-484a-8115-5d136084f2b0

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