

2900385

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PLC-INTERFACE, integrated solid-state relay, with push-in connection, for mounting on NS 35/7,5 DIN rails, input: 110 V DC, output: 12 - 300 V DC/1 A

#### Your advantages

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

#### Commercial data

Item number	2900385
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	CK62A3
Catalog page	Page 408 (C-5-2019)
GTIN	4046356506892
Weight per piece (including packing)	31.55 g
Weight per piece (excluding packing)	31.55 g
Customs tariff number	85364900
Country of origin	DE



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### Technical data

#### Product properties

. ou dot proportion	
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
Insulation characteristics: Standards/regulations	
Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2
lectrical properties	
Manian and a discipation for a series I amedition	0.55.10

#### Ele

Maximum power dissipation for nominal condition	0.55 W
Standards/regulations	
Rated insulation voltage	300 V
Rated surge voltage	2.5 kV

### Input data

Nominal input voltage U <sub>N</sub>	110 V DC
Input voltage range in reference to $\mathbf{U}_{\mathbf{N}}$	0.8 1.2
Input voltage range	88 V DC 132 V DC
Switching threshold "0" signal in reference to $\boldsymbol{U}_{N}$	≤ 0.4
Switching threshold "1" signal in reference to $\boldsymbol{U}_{N}$	≥ 0.8
Typical input current at U <sub>N</sub>	5 mA
Typical response time	0.4 ms
Typical turn-off time	0.7 ms
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection; Varistor
Transmission frequency	50 Hz

### Output data

Designation	Output data
Contact switching type	1 N/O contact
Design of digital output	electronic
Output voltage range	12 V DC 300 V DC (Partition plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal points in adjacent modules. Potential bridging is then carried out with FBST 8-PLC orFBST 500)



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nection data  Connection method Push-in connection  Stripping length 10 mm Conductor cross section rigid 0.14 mm² 2.5 mm² 0.2 mm² 2.5 mm² (Single ferrule) 2 x 0.5 mm² 1 mm² (TWIN ferrule)  Conductor cross section AWG 26 14  ensions  Width 6.2 mm Height 80 mm Depth 94 mm  arial specifications  Color gray (RAL 7042)  Flammability rating according to UL 94 V0 (Housing)  ronmental and real-life conditions  which temperature (storage/transport) 40 °C 85 °C  certificate CE-compliant  (CGA Certificate UKCA-compliant ipibuilding approval Certificate TAE0000196  VV CL data Temperature  VV CL data Temperature  VV CL data Temperature  VV CL data Temperature  Push-in connection  Push-in co	Limiting continuous current	1 A (see derating curve)
Surge protection; Varistor  ection data  Connection method Push-in connection  Stripping length 10 mm  Conductor cross section figid 0.14 mm² 2.5 mm²  Conductor cross section flexible 0.14 mm² 2.5 mm²  Quana 2.5 mm² (Single ferrule)  2 x 0.5 mm² 1 mm² (TWIN ferrule)  Conductor cross section AWG 26 14  Conductor cross section AWG 80 mm²  Peight 80 mm  Peight 90 mm  Peight	/oltage drop at max. limiting continuous current	< 500 mV
Accommendate  Connection method  Connection method  Connection method  Stripping length  Conductor cross section rigid  Conductor cross section flexible  Conductor cross section flexible  Conductor cross section flexible  Conductor cross section flexible  Conductor cross section AWG  Conductor cross section flexible  Conductor cross conductor cro	Protective circuit	Reverse polarity protection; Polarity protection diode
Push-in connection		Surge protection; Varistor
Stripping length	nection data	
Conductor cross section rigid         0.14 mm² 2.5 mm²           Conductor cross section flexible         0.14 mm² 2.5 mm² (Single ferrule)           2x 0.5 mm² 1 mm² (TWIN ferrule)         2x 0.5 mm² 1 mm² (TWIN ferrule)           Conductor cross section AWG         26 14           Width         6.2 mm           Height         80 mm           Depth         94 mm           erial specifications           Color         gray (RAL 7042)           Flammability rating according to UL 94         V0 (Housing)           dironmental and real-life conditions	Connection method	Push-in connection
Conductor cross section flexible         0.14 mm² 2.5 mm² (Single ferrule)           0.2 mm² 2.5 mm² (Single ferrule)         2x 0.5 mm² 1 mm² (TWIN ferrule)           Conductor cross section AWG         26 14           Rensions         14           Width         6.2 mm           Height         80 mm           Depth         94 mm           erial specifications         Color         gray (RAL 7042)           Flammability rating according to UL 94         V0 (Housing)           dirronmental and real-life conditions         mblent conditions           Ambient temperature (operation)         -25 °C 60 °C           Ambient temperature (storage/transport)         -40 °C 85 °C           provals         E           Certificate         CE-compliant           KCA           Certificate         UKCA-compliant           KCA         Certificate         TAE0000196           corrosive gas test         Identification         ISA-S71.04. G3 Harsh Group           EN 60068-2-60         EN 60068-2-60	Stripping length	10 mm
0.2 mm² 2.5 mm² (Single ferrule)	Conductor cross section rigid	0.14 mm² 2.5 mm²
2x 0.5 mm² 1 mm² (TWIN ferrule)	Conductor cross section flexible	0.14 mm² 2.5 mm²
Conductor cross section AWG		0.2 mm² 2.5 mm² (Single ferrule)
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Height 80 mm  Depth 94 mm  erial specifications  Color gray (RAL 7042)  Flammability rating according to UL 94  Vo (Housing)  rironmental and real-life conditions  mbient conditions  Ambient temperature (operation) -25 °C 60 °C  Ambient temperature (storage/transport) -40 °C 85 °C  Provals  E  Certificate CE-compliant  KCA  Certificate UKCA-compliant  hipbuilding approval  Certificate TAE0000196  orrosive gas test Identification ISA-S71.04. G3 Harsh Group EN 60068-2-60  NV GL data  Temperature D	nensions	
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Temperature D		
	NV GL data	
	Temperature	D
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Mounting position

Vibration	B/C
EMC	В
Enclosure	Required protection according to the Rules shall be provided upon installation on board
MC data	
Low Voltage Directive	Conformance with Low Voltage Directive
Electromagnetic compatibility	Conformance with EMC directive
Standards and regulations Standards/regulations	
Standards/regulations	IEC 60947-5-1
Mounting	
Mounting  Mounting type	DIN rail mounting
Mounting  Mounting type  Thread type	DIN rail mounting ()

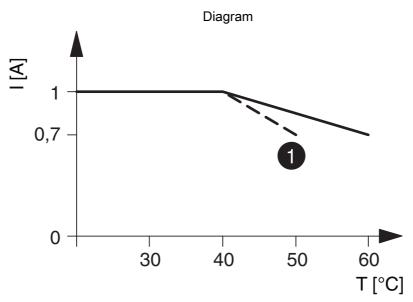
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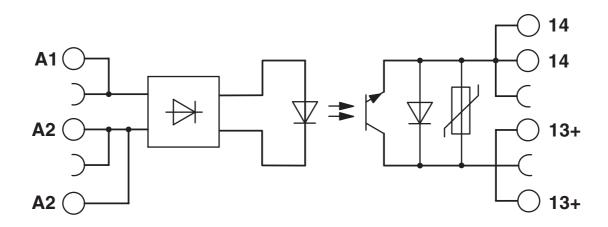
### Drawings



1 Input voltages 220 V DC/230 V AC

The figure shows the derating curve for PLC-...300DC/1

Circuit diagram





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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2900385



cUL Recognized





**UL Recognized**Approval ID: E238705



EAC

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



**DNV GL** 

Approval ID: TAE0000196



AC

Approval ID: RU\*C-DE.\*08.B.00010



**UL Listed** 

Approval ID: FILE E 172140



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Approval ID: E140324

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### Classifications

#### **ECLASS**

	ECLASS-11.0	27371604
	ECLASS-12.0	27371604
	ECLASS-13.0	27371604
ET	ТІМ	
	ETIM 9.0	EC001504
UN	NSPSC	
	UNSPSC 21.0	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	5ea22f83-7cfa-4dac-ae75-b71ae3449eef

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