

2980681

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PLC-INTERFACE, integrated solid-state relay, with screw connection, for mounting on NS 35/7,5 DIN rails, input: 60 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	2980681
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	C461
Product key	DK6223
GTIN	4046356051422
Weight per piece (including packing)	36.22 g
Weight per piece (excluding packing)	34.38 g
Customs tariff number	85364900
Country of origin	DE



2980681

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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	
Insulation characteristics: Standards/regulations		
Insulation	Basic insulation	
Overvoltage category	III	
Pollution degree	2	
Data management status		
Date of last data management	15.09.2025	
Electrical properties		
Maximum power dissipation for nominal condition	0.3 W	
Standards/regulations		

300 V

2.5 kV

Input data

Rated insulation voltage

Rated surge voltage

Nominal input voltage $\mathbf{U}_{\mathbf{N}}$	60 V DC
Input voltage range in reference to $\mathbf{U}_{\mathbf{N}}$	0.8 1.2
Input voltage range	48 V DC 72 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 _N	5 mA
Typical response time	0.3 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)
Limiting continuous current	1 A (see derating curve)



2980681

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	< 500 mV
Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection; Varistor
nnection data	
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.14 mm² 2.5 mm²
Conductor cross-section flexible	0.14 mm² 2.5 mm²
	0.2 mm ² 2.5 mm ² (Single ferrule)
	2x 0.5 mm ² 1.5 mm ² (TWIN ferrule)
Conductor cross-section AWG	26 14
Tightening torque	0.45 Nm 0.55 Nm (Usually these terminal blocks must be supported during conductor connection (held by one hand, supported on the housing))
nensions	
Width	6.2 mm
Height	80 mm
Depth	94 mm
terial specifications Color	gray (RAL 7042)
Flammability rating according to UL 94 (Housing)	V0 (Housing)
vironmental and real-life conditions	
vironmental and real-life conditions	
	-25 °C 60 °C
ambient conditions	-25 °C 60 °C -40 °C 85 °C
ambient conditions Ambient temperature (operation)	
Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Drovals	
Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Drovals	-40 °C 85 °C
Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Drovals E Certificate	-40 °C 85 °C
Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Drovals E Certificate BKCA Certificate	-40 °C 85 °C CE-compliant
Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Drovals EE Certificate UKCA Certificate chipbuilding approval	-40 °C 85 °C CE-compliant UKCA-compliant
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2980681

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Temperature	D
Humidity	A
Vibration	B/C
EMC	В
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
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Mounting

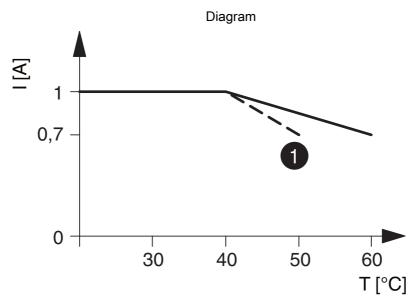
Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any



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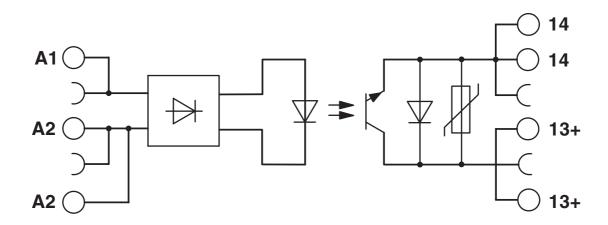
Drawings



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/2980681



EAC

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



DNV GL

Approval ID: TAE0000196



cULus ListedApproval ID: E140324

Nov 14, 2025, 1:47 AM Page 6 (8)



2980681

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Classifications

ECLASS

	ECLASS-13.0	27371604		
	ECLASS-15.0	27371604		
FI	ETIM			
ETIM				
	ETIM 9.0	EC001504		
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.)	Lead(CAS: 7439-92-1)
SCIP	b20244f3-b429-45c0-9404-c54c76e37f71

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