

2980665

https://www.phoenixcontact.com/us/products/2980665

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



PLC-INTERFACE, integrated solid-state relay, with screw connection, for mounting on NS 35/7,5 DIN rails, input: 12 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	2980665
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	CK6223
Catalog page	Page 408 (C-5-2019)
GTIN	4046356051408
Weight per piece (including packing)	36.18 g
Weight per piece (excluding packing)	34.16 g
Customs tariff number	85364900
Country of origin	DE



2980665

https://www.phoenixcontact.com/us/products/2980665

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
Insulation Overvoltage category	Basic insulation
Overvoltage category	III
Overvoltage category Pollution degree	III

Electrical properties

Maximum power dissipation for nominal condition	0.07 W
Standards/regulations	
Rated insulation voltage	300 V
Rated surge voltage	2.5 kV

Input data

Nominal input voltage $\mathbf{U}_{\mathbf{N}}$	12 V DC
Input voltage range in reference to $\mathbf{U}_{\mathbf{N}}$	0.8 1.2
Input voltage range	9.6 V DC 14.4 V DC
Switching threshold "0" signal in reference to \boldsymbol{U}_{N}	≤ 0.4
Switching threshold "1" signal in reference to \mathbf{U}_{N}	≥ 0.8
Typical input current at U _N	6 mA
Typical response time	0.3 ms
Typical turn-off time	0.8 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)



2980665

Humidity

https://www.phoenixcontact.com/us/products/2980665

Voltage drop at max. limiting continuous current	< 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))
mensions	
Width	6.2 mm
Height	80 mm
Depth	94 mm
aterial specifications	
Color	gray (RAL 7042)
Flammability rating according to UL 94	V0 (Housing)
nvironmental and real-life conditions Ambient conditions	
Ambient temperature (operation)	-25 °C 60 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
oprovals 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
Temperature	D



2980665

https://www.phoenixcontact.com/us/products/2980665

Mounting position

Vibration		B/C
EMC		В
Enclosure		Required protection according to the Rules shall be provided upon installation on board
EMC data		
Electroma	gnetic compatibility	Conformance with EMC directive
Low Volta	ge Directive	Conformance with Low Voltage Directive
Standards ar	nd regulations	
Standards/re	gulations	
Standards	s/regulations	IEC 60947-5-1
Mounting		
Mounting	type	DIN rail mounting
Assembly	note	in rows with zero spacing

any

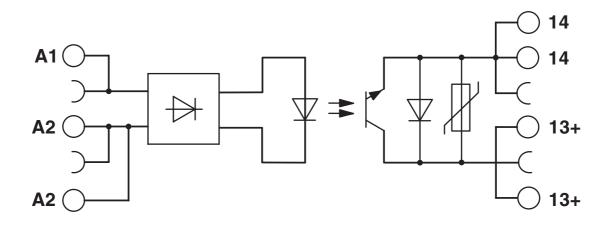


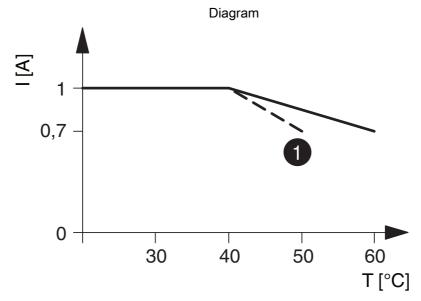
2980665

https://www.phoenixcontact.com/us/products/2980665

Drawings

Circuit diagram





1 Input voltages 220 V DC/230 V AC

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



2980665

https://www.phoenixcontact.com/us/products/2980665

Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2980665



EAC

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



DNV GL

Approval ID: TAE0000196



cULus ListedApproval ID: E140324



2980665

https://www.phoenixcontact.com/us/products/2980665

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



2980665

https://www.phoenixcontact.com/us/products/2980665

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	7e9b4afe-0ce6-4561-8de4-15c4f2253106

Phoenix Contact 2025 © - all rights reserved https://www.phoenixcontact.com

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