2900301

https://www.phoenixcontact.com/us/products/2900301

PHŒNIX CONTACT

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, consisting of PLC-BPT.../21 basic terminal block with Push-in connection and plug-in miniature relay with power contact, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 48 V DC

Your advantages

- Slim design
- Efficient connection to system cabling using V8 adapter
- · Safe isolation between coil and contact side
- · RT III sealed relay
- · Functional plug-in bridges
- · Integrated input circuit and interference suppression circuit

Commercial data

Item number	2900301
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	CK62A6
Catalog page	Page 364 (C-5-2019)
GTIN	4046356507141
Weight per piece (including packing)	35.478 g
Weight per piece (excluding packing)	32.928 g
Customs tariff number	85364190
Country of origin	DE



https://www.phoenixcontact.com/us/products/2900301



Technical data

Product properties

Product type	Relay Module
Product family	PLC-INTERFACE
Application	Universal
Operating mode	100% operating factor
Mechanical service life	2x 10 ⁷ cycles
Data management status	
Date of last data management	03.07.2024
Article revision	05
Article revision ectrical properties Maximum power dissipation for nominal condition	05 0.44 W
ectrical properties	
ectrical properties Maximum power dissipation for nominal condition	0.44 W
ectrical properties Maximum power dissipation for nominal condition Test voltage (Winding/contact)	0.44 W
ectrical properties Maximum power dissipation for nominal condition Test voltage (Winding/contact) nsulation characteristics: Coil/contact	0.44 W 4 kV AC (50 Hz, 1 min., winding/contact)
ectrical properties Maximum power dissipation for nominal condition Test voltage (Winding/contact) Insulation characteristics: Coil/contact Rated insulation voltage	0.44 W 4 kV AC (50 Hz, 1 min., winding/contact) 250 V

Input data

Coil side	
Nominal input voltage U _N	48 V DC
Input voltage range	37.4 V DC 60 V DC (20 °C)
Nominal voltage (plugged-in electromechanical relay)	24 V DC
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U _N	9.2 mA
Typical response time	5 ms
Typical release time	8 ms
Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection; Freewheeling diode
Operating voltage display	yes

Output data

Switching	
Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC (The separating plate PLC-ATP should be installed for voltages larger than 250 V (L1, L2, L3) between identical



https://www.phoenixcontact.com/us/products/2900301

	terminal blocks in adjacent modules. Potential bridging is then carried out with FBST 8-PLC orFBST 500)
Minimum switching voltage	5 V (100 mA)
Limiting continuous current	6 A
Maximum inrush current	10 A (4 s)
Min. switching current	10 mA (12 V)
Short-circuit current	200 A (conditional short-circuit current)
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	20 W (at 48 V DC)
	18 W (at 60 V DC)
	23 W (at 110 V DC)
	40 W (at 220 V DC)
	1500 VA (for 250 V AC)
Output fuse	4 A gL/gG NEOZED
Switching capacity	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.1 A (at 220 V, DC13)
	3 A (at 24 V, AC15)
	3 A (at 120 V, AC15)
	3 A (at 230 V, AC15)

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 mm² 2.5 mm²
	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	
Degree of protection (Relay)	RT III (Relay)
Degree of protection (Relay base)	IP20 (Relay base)
Ambient temperature (operation)	-40 °C 60 °C

PHŒNIX

2900301

https://www.phoenixcontact.com/us/products/2900301

Ambient temperature (storage/transport)	-40 °C 85 °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
DNV GL data	
Temperature	D
Humidity	A
Vibration	B/C
EMC	B
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	IEC 60947-5-1
lounting	
Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

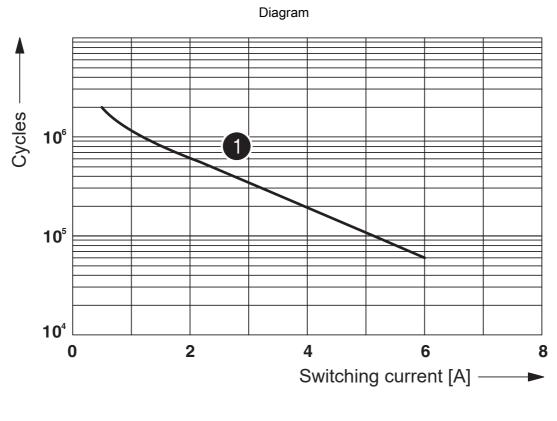
PHŒNIX CONTACT



2900301

https://www.phoenixcontact.com/us/products/2900301

Drawings



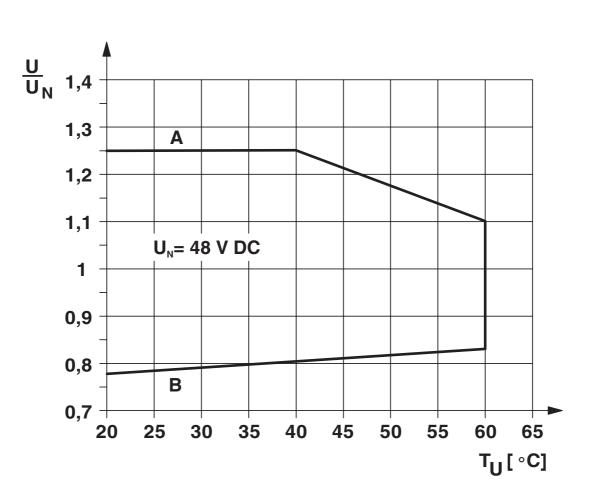
1 250 V AC, ohmic load

Electrical service life



2900301

https://www.phoenixcontact.com/us/products/2900301



Diagram

Curve A

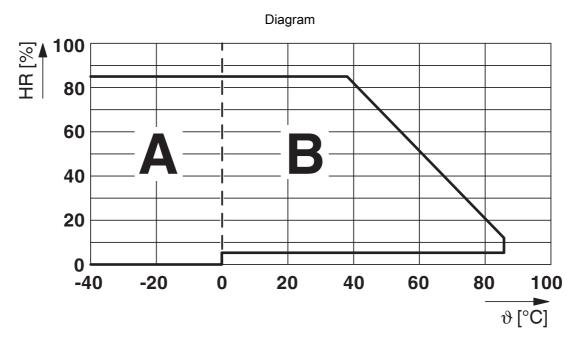
Maximum permissible continuous voltage U_{max} with limiting continuous current on the contact side (see relevant technical data) Curve B

Minimum permissible operate voltage U_{op} after pre-excitation (see relevant technical data)



2900301

https://www.phoenixcontact.com/us/products/2900301

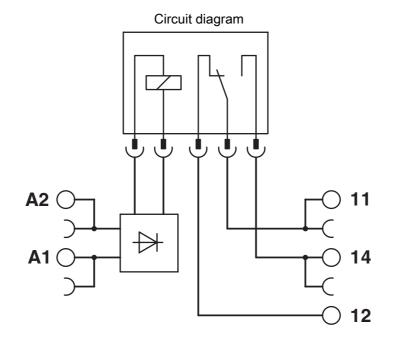


Permissible humidity for operation and storage.

The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures $\leq 0^{\circ}$ C must be prevented Area B: Condensation at ambient temperatures > 0°C must be prevented

On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature ≤ 25°C.

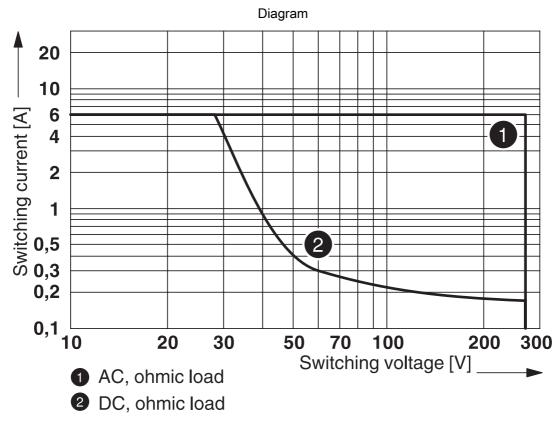


Sep 25, 2024, 9:57 PM Page 7 (11)



2900301

https://www.phoenixcontact.com/us/products/2900301



Interrupting rating



https://www.phoenixcontact.com/us/products/2900301



Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2900301

.81	CUL Recognized Approval ID: E238705
F1	UL Recognized Approval ID: E238705
	EAC Approval ID: TR_TS_D_00573_c
	DNV GL Approval ID: TAE0000196
	IL Listed pproval ID: FILE E 172140
	xUL Listed xpproval ID: FILE E 172140
· @ -	CULus Listed Approval ID: E140324
cUL	us Recognized
cUL	us Listed

cULus Listed

2900301

https://www.phoenixcontact.com/us/products/2900301



Classifications

ECLASS

ECLASS-11.0	27371601
ECLASS-12.0	27371601
ECLASS-13.0	27371601

ETIM

	ETIM 9.0	EC001437
UNSPSC		
	UNSPSC 21.0	39122300

2900301

https://www.phoenixcontact.com/us/products/2900301



Environmental product compliance

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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
SCIP	64f02807-4d4e-4002-aeb6-828005d0449d

Phoenix Contact 2024 © - 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