

2900305

https://www.phoenixcontact.com/us/products/2900305

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 230 V AC/220 V DC

Your advantages

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

Commercial data

Item number	2900305
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C462
Product key	CK62A6
Catalog page	Page 364 (C-5-2019)
GTIN	4046356507004
Weight per piece (including packing)	35.54 g
Weight per piece (excluding packing)	31.27 g
Customs tariff number	85364900
Country of origin	DE



https://www.phoenixcontact.com/us/products/2900305



Technical data

Notes

Notes on operation	Separating plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal blocks in adjacent modules. Potential bridging is then carried out with FBST 8-PLC or FBST 500
	1 B31 6-F EC 01 1 B31 300

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	05.07.2024
Article revision	05

Electrical properties

Maximum power dissipation for nominal condition	0.74 W
Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact)
Insulation characteristics: Coil/contact	
Rated insulation voltage	250 V
Rated impulse withstand voltage	6 kV
Overvoltage category	III
Degree of pollution	3

Input data

Coil side

Nominal input voltage U _N	230 V AC
	220 V DC
Input voltage range	179.4 V AC 264.5 V AC (20 °C)
	171.6 V DC 253 V DC (20 °C)
Nominal voltage (plugged-in electromechanical relay)	60 V DC
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U _N	3.2 mA (at U _N = 230 V AC)
	3 mA (at U _N = 220 V DC)
Typical response time	7 ms
Typical release time	15 ms
Protective circuit	Bridge rectifier; Bridge rectifier
Operating voltage display	Yellow LED



https://www.phoenixcontact.com/us/products/2900305



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 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 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 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)
-------	-----------------



https://www.phoenixcontact.com/us/products/2900305



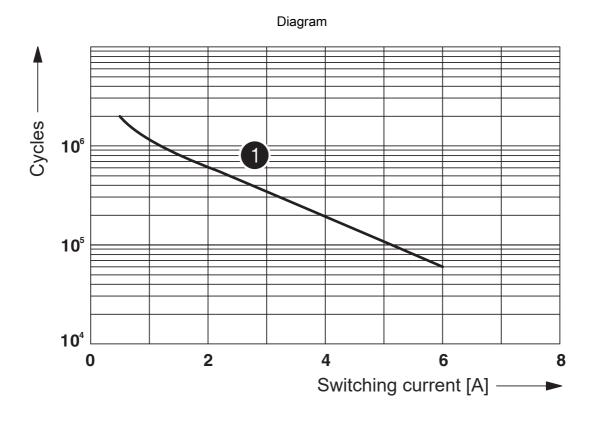
Flammability rating according to UL 94	V0 (Housing)
Environmental and real-life conditions	
Ambient conditions	
Degree of protection (Relay)	RT III (Relay)
Degree of protection (Relay base)	IP20 (Relay base)
Ambient temperature (operation)	-40 °C 55 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Approvals	
CE	
Certificate	CE-compliant
UKCA	
Certificate	UKCA-compliant
Chinhuilding approval	
Shipbuilding approval Certificate	TAE0000196
Certificate	TAE0000190
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	В
Enclosure	Required protection according to the Rules shall be provided upon installation on board
EMC data	
Low Voltage Directive	Conformance with Low Voltage Directive
Electromagnetic compatibility	Conformance with EMC directive
Standards and regulations	
Standards/regulations	IEC 60947-5-1
Mounting	
Mounting type	DIN rail mounting
Thread type	()
Assembly note	in rows with zero spacing
Mounting position	any



https://www.phoenixcontact.com/us/products/2900305



Drawings



1 250 V AC, ohmic load

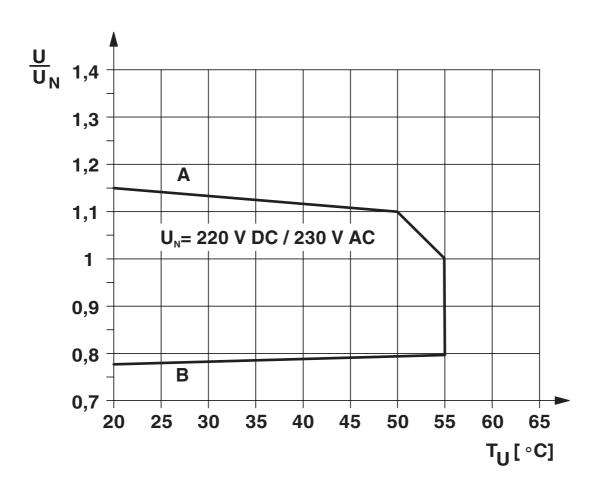
Electrical service life



https://www.phoenixcontact.com/us/products/2900305







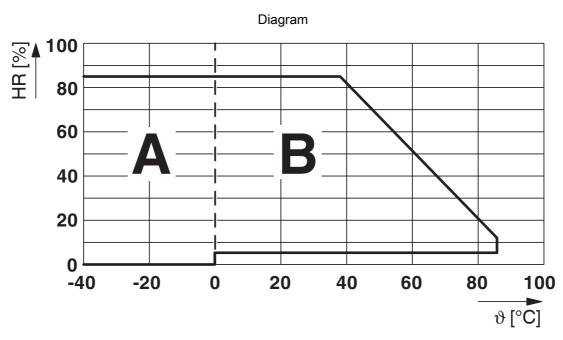
$\label{eq:curve} \textbf{Curve A} \\ \textbf{Maximum permissible continuous voltage } \textbf{U}_{\text{max}} \text{ with limiting continuous current on the contact side (see relevant technical data)} \\ \textbf{Curve B} \\$

Minimum permissible operate voltage \mathbf{U}_{op} after pre-excitation (see relevant technical data)



https://www.phoenixcontact.com/us/products/2900305





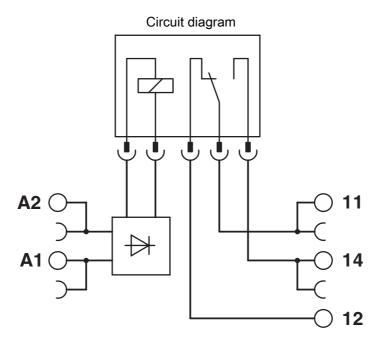
Permissible humidity for operation and storage.

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

Area A: Ice buildup at ambient temperatures ≤ 0°C must be prevented

Area B: Condensation at ambient temperatures > 0°C must be prevented

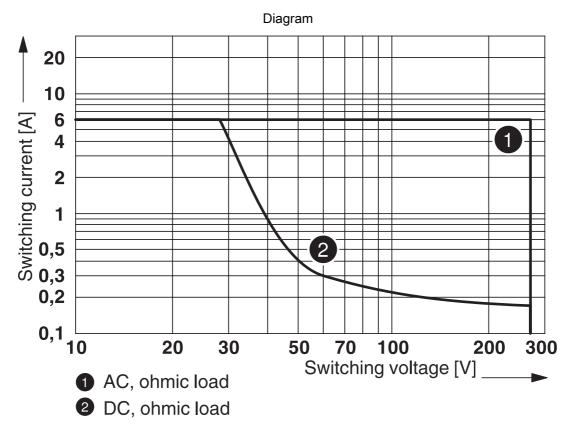
On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature \leq 25°C.





2900305

https://www.phoenixcontact.com/us/products/2900305



Interrupting rating



2900305

https://www.phoenixcontact.com/us/products/2900305

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2900305



cUL RecognizedApproval ID: E238705





UL RecognizedApproval ID: E238705



EAC

Approval ID: TR_TS_D_00573_c



DNV GL

Approval ID: TAE0000196



EAC

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



UL Listed

Approval ID: FILE E 172140



cUL Listed

Approval ID: FILE E 172140



cULus Listed

Approval ID: E140324

cULus Recognized

cULus Listed



2900305

https://www.phoenixcontact.com/us/products/2900305

Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27371601
	ECLASS-12.0	27371601
	ECLASS-13.0	27371601
ETIM		
	ETIM 9.0	EC001437
UN	ISPSC	

39122300



https://www.phoenixcontact.com/us/products/2900305



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.
U REACH SVHC	
REACH candidate substance (CAS No.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7)
SCIP	17ef93da-9eae-4fc6-a62b-44a3fa37e7c7
F3.0 Climate Change	
CO2e kg	0.536 kg CO2e

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