

2909528

https://www.phoenixcontact.com/us/products/2909528

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 DIN-rail-mountable basic terminal block in 6.2 mm with Push-in connection and plug-in miniature relay with 6 A power contact, 1 changeover contact, 24 V DC input voltage. Approved in accordance with ATEX/IECEx (zone 2) and Ex zone Class I, Div. 2.

Commercial data

Item number	2909528
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C462
Product key	DK62AK
GTIN	4055626363653
Weight per piece (including packing)	37.506 g
Weight per piece (excluding packing)	36.8 g
Customs tariff number	85364190
Country of origin	DE



https://www.phoenixcontact.com/us/products/2909528



Technical data

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the
	download area

Product properties

Product type	Relay Module
Product family	PLC-INTERFACE
Application	Universal
	potentially explosive areas
Operating mode	100% operating factor
Mechanical service life	2x 10 ⁷ cycles

Insulation characteristics: Standards/regulations

Overvoltage category	III
Pollution degree	3

Data management status

Date of last data management	10.09.2025

Electrical properties

Maximum power dissipation for nominal condition	0.22 W
Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact)

Input data

Coil side

Nominal input voltage U _N	24 V DC
Input voltage range	18.5 V DC 33.6 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 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	Yellow LED

Output data

Switching

·		
	Contact switching type	1 changeover contact



2909528

https://www.phoenixcontact.com/us/products/2909528

Type of switch contact	Single contact
Contact connection type	Power 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 AC/DC (100 mA)
Limiting continuous current	6 A
Maximum inrush current	10 A (4 s)
Min. switching current	10 mA (12 V)
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)
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 mm² 1 mm² (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 (Housing)	V0 (Housing)

Environmental and real-life conditions

Ambient conditions

Degree of protection (Relay)	RT III (Relay)
begins of protection (relay)	rti iii (rtolay)



2909528

https://www.phoenixcontact.com/us/products/2909528

Degree of protection (Relay base)	IP20 (Relay base)
Ambient temperature (operation) (UL)	-40 °C 70 °C (UL)
Ambient temperature (operation) (ATEX)	-40 °C 70 °C (ATEX / IECEx)
Ambient temperature (storage/transport)	-40 °C 85 °C
Approvals	
CE	
Certificate	CE-compliant CE-compliant
ATEX	
Identification	
Certificate	IBExU16ATEXB015 X
IECEx	
Identification	Ex ec nC IIC T4 Gc
Certificate	IECEx IBE 16.0029X
UKCA Ex (UKEX)	
Identification	
Certificate	PxCIF21UKEX2909514X
UL, USA	
Identification	Class I, Zone 2, AEx nA nC IIC T6
UL, USA/Canada	
Identification	Class I, Div. 2, Groups A, B, C, D
UL, Canada	
Identification	Class I, Zone 2, Ex nA nC IIC Gc T6 X
Shipbuilding approval	
Certificate	TAE0000196
Corrosive gas test	
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60
Shipbuilding data	
Temperature	D
Humidity	A

EMC data

Vibration

Enclosure

EMC

Electromagnetic compatibility	Conformance with EMC directive
Low Voltage Directive	Conformance with Low Voltage Directive

B/C

upon installation on board

В

Required protection according to the Rules shall be provided



2909528

https://www.phoenixcontact.com/us/products/2909528

Standards and regulations

Standards/regulations

Standards/regulations	IEC 60947-5-1
	EN 60079-0
	EN 60079-7
	EN 60079-15

Mounting

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

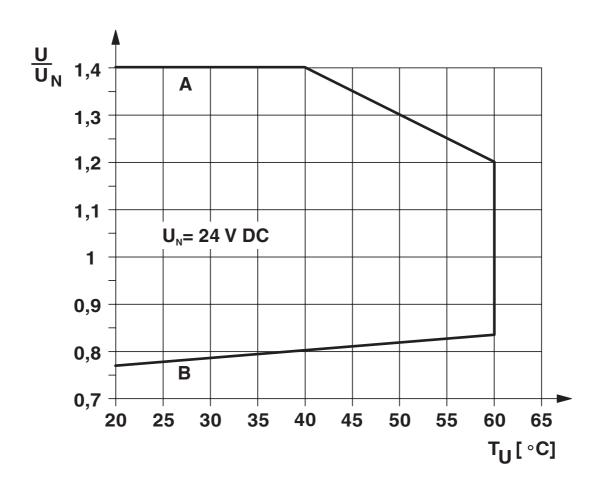


https://www.phoenixcontact.com/us/products/2909528



Drawings

Diagram



Curve A

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

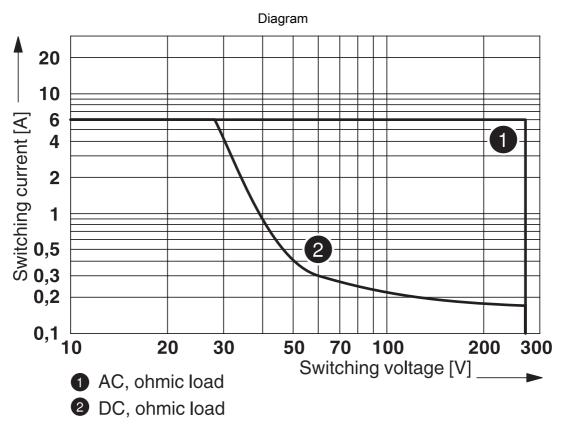
Curve B

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

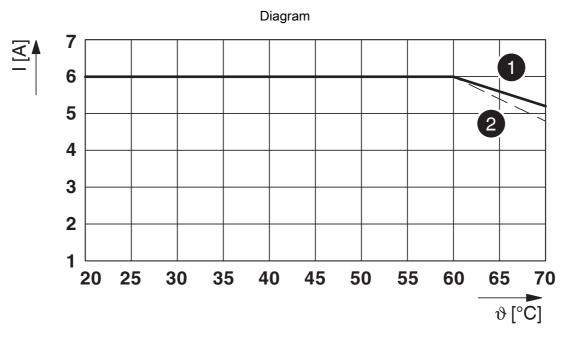


2909528

https://www.phoenixcontact.com/us/products/2909528



Interrupting rating



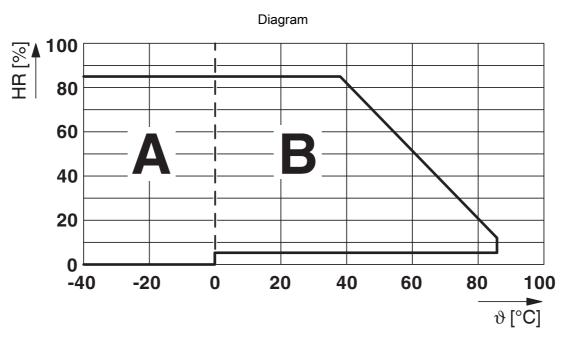
Limiting continuous current per contact for 0.85 ... 1.1 U_N (contact-side)

- (1) Limiting continuous current for horizontal installation position without clearance
- (2) Limiting continuous current for vertical installation position without clearance



https://www.phoenixcontact.com/us/products/2909528





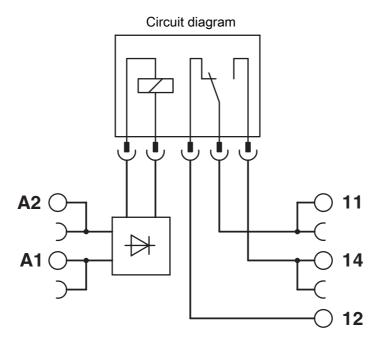
Permissible humidity for operation and storage.

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.





2909528

https://www.phoenixcontact.com/us/products/2909528

Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2909528



DNV GL

Approval ID: TAE0000196



cULus Listed





EAC Ex

Approval ID: RU C-DE.AB72.B.02328



IECEx

Approval ID: IECEx IBE 16.0029X



ATEX

Approval ID: 16ATEXB015X



cULus Listed

Approval ID: E199827



KC.-

Approval ID: 18-KA4BO-0620X



CCC

Approval ID: 2021122304114118



2909528

https://www.phoenixcontact.com/us/products/2909528

Classifications

ECLASS

	ECLASS-13.0	27371601
	ECLASS-15.0	27371601
	-11.4	
ETIM		
	ETIM 9.0	EC001437
UNSPSC		
	UNSPSC 21.0	39122300



2909528

https://www.phoenixcontact.com/us/products/2909528

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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: n/a)
SCIP	a689367d-0e5f-4cea-a74d-cff01bf648ca

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