

2900322

https://www.phoenixcontact.com/us/products/2900322

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 for railway applications, consisting of basic terminal block with Push-in connection and plug-in miniature relay with multi-layer gold contact, range: 0.7 x U_N to 1.25 x U_N , temperature class TX: -40°C to +70°C, 1 changeover contact, input voltage 72 V DC

Your advantages

- · Optimum relay operation thanks to wide-range electronics
- Vibration and shock resistance in accordance with EN 50155
- · Certified in accordance with EN 50155
- · Safe isolation between coil and contact side
- Input voltage range of 0.7 to 1.25 x UN (1.4 x UN briefly)
- Temperature range: -40 °C ... + 70 °C (short-term 85 °C)

Commercial data

Item number	2900322
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Sales key	C461
Product key	DK62BL
GTIN	4046356510059
Weight per piece (including packing)	33.36 g
Weight per piece (excluding packing)	33.36 g
Customs tariff number	85364900
Country of origin	DE



2900322

https://www.phoenixcontact.com/us/products/2900322

Technical data

Product properties

Product type	Relay Module
Product family	PLC-INTERFACE
Application	Railway applications
Installation location	Attached to the vehicle body
Operating mode	100% operating factor
Mechanical service life	approx. 2x 10 ⁷ cycles
Insulation characteristics	
Overvoltage category	III
Pollution degree	2
Data management status	
Date of last data management	12.09.2025

Electrical properties

Maximum power dissipation for nominal condition	0.22 W
Test voltage (Winding/contact)	4 kV _{rms} (50 Hz, 1 min., winding/contact)
Rated insulation voltage	250 V AC
Rated surge voltage	6 kV

Input data

Coil side

Nominal input voltage $\mathbf{U}_{\mathbf{N}}$	72 V DC
Input voltage range	50.4 V DC 90 V DC
Nominal voltage (plugged-in electromechanical relay)	48 V DC
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U _N	3 mA
Typical response time	4 ms
Typical release time	4 ms
Protective circuit	Surge protection; Freewheeling diode
	RCZ filter
	Wide-range electronics
Operating voltage display	Yellow LED

Output data

Switching

Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgSnO, hard gold-plated



2900322

https://www.phoenixcontact.com/us/products/2900322

30 V AC
36 V DC
100 mV (10 mA)
50 mA
50 mA
1 mA (24 V)
200 A (conditional short-circuit current)
1.2 W (at 24 V DC)
4 A gL/gG NEOZED
1 A (24 V (DC13))
0.2 A (110 V (DC13))
0.1 A (220 V (DC13))
3 A (24 V (AC15))
3 A (120 V (AC15))
3 A (230 V (AC 15))

Switching: when the gold layer is destroyed

Note	the following values are applicable if a gold layer is destroyed
Maximum switching voltage	250 V AC/DC (Separating plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal blocks in adjacent modules.)
Minimum switching voltage	12 V AC/DC
Limiting continuous current	6 A
Min. switching current	10 mA
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)

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 mm² 2.5 mm² (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



2900322

https://www.phoenixcontact.com/us/products/2900322

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)
Degree of protection (Relay base)	IP20 (Relay base)
Ambient temperature (operation)	-40 °C 70 °C (Temperature class TX)
Ambient temperature (storage/transport)	-40 °C 85 °C

Approvals

CE

Certificate CE-compliant UKCA Certificate UKCA-compliant
Certificate UKCA-compliant
Shipbuilding approval
Certificate TAE0000196
Corrosive gas test

Corrosive gas test

Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60
Shipbuilding data	

S

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	IEC 60947-5-1
	EN 50155 (VDE 0115 part 200)
	EN 61373
	EN 50121

Mounting

Mounting type DIN rail mounting		
	Mounting type	DIN rail mounting



2900322

https://www.phoenixcontact.com/us/products/2900322

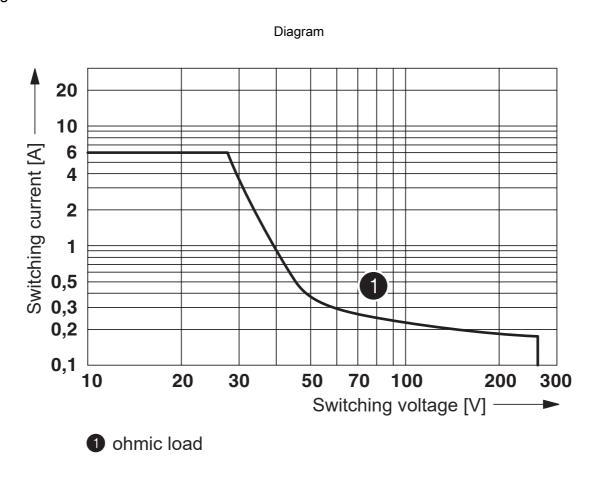
Assembly note	in rows with zero spacing
Mounting position	any



2900322

https://www.phoenixcontact.com/us/products/2900322

Drawings

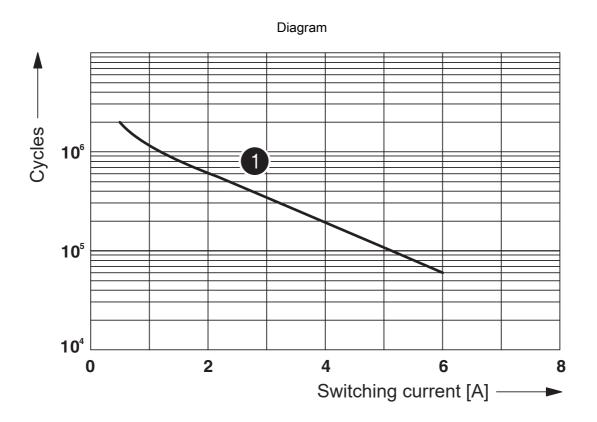


DC interrupting rating



2900322

https://www.phoenixcontact.com/us/products/2900322



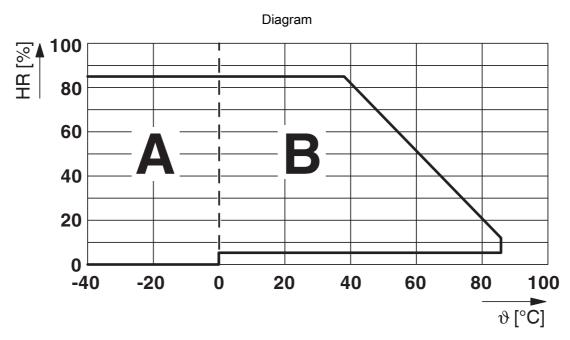
1 250 V AC, ohmic load

Electrical service life



2900322

https://www.phoenixcontact.com/us/products/2900322



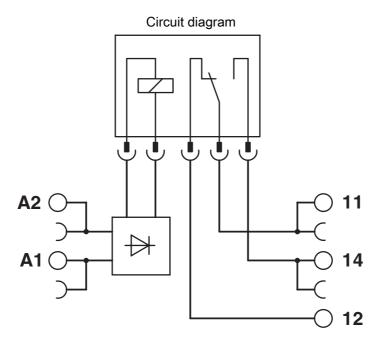
Permissible humidity for operation and storage.

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.





2900322

https://www.phoenixcontact.com/us/products/2900322

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2900322



EAC

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



DNV GL

Approval ID: TAE0000196



cULus Listed

Approval ID: E140324



cUL Recognized

Approval ID: E238705



UL Recognized

Approval ID: E238705



UL Listed

Approval ID: FILE E 172140



cUL Listed

Approval ID: FILE E 172140



2900322

https://www.phoenixcontact.com/us/products/2900322

Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	27371601
	ECLASS-15.0	27371601
ΕT	ТІМ	
	ETIM 9.0	EC001437
UN	NSPSC	

39122300



2900322

https://www.phoenixcontact.com/us/products/2900322

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	0efc9a81-e773-4a92-a263-0d39d73a2f5b

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