

2900308

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PLC-INTERFACE, consisting of PLC-BPT.../21 basic terminal block with Push-in connection and plug-in miniature relay with multi-layer gold 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
- · RT III sealed relay
- · Safe isolation between coil and contact side
- · Integrated input circuit and interference suppression circuit
- Functional plug-in bridges

## Commercial data

Item number	2900308
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	CK623B
Catalog page	Page 365 (C-5-2019)
GTIN	4046356507042
Weight per piece (including packing)	35.7 g
Weight per piece (excluding packing)	31.27 g
Customs tariff number	85364190
Country of origin	DE



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## Technical data

## Product properties

Product type	Relay Module
Product family	PLC-INTERFACE
Application	Universal
Operating mode	100% operating factor
Mechanical service life	2x 10 <sup>7</sup> cycles

## Electrical properties

Maximum power dissipation for nominal condition	0.44 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 <sub>N</sub>	48 V DC
Input voltage range	37.4 V DC 60 V DC (20 °C)
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U <sub>N</sub>	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	Yellow LED

## Output data

#### Switching

Switching	
Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgSnO, hard gold-plated
Maximum switching voltage	30 V AC
	36 V DC
Minimum switching voltage	100 mV (10 mA)
Limiting continuous current	50 mA
Maximum inrush current	50 mA
Min. switching current	1 mA (24 V)



2900308

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Ambient conditions

Short-circuit current	200 A (conditional short-circuit current)
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)
Output fuse	4 A gL/gG NEOZED
vitching: when the gold layer is destroyed	
Note	the following values are applicable if a gol layer is destroyed
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 100 mA)
Limiting continuous current	6 A
Min. switching current	10 mA (at 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)
nection 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 <sup>2</sup> 2.5 mm <sup>2</sup> (Single ferrule)
	2x 0.5 mm <sup>2</sup> 1 mm <sup>2</sup> (TWIN ferrule)
Conductor cross section AWG	26 14
ensions	
Width	6.2 mm
Height	80 mm
Depth	94 mm
erial specifications	
Color	gray (RAL 7042)
Flammability rating according to UL 94	V0 (Housing)

### Mar 5, 2024, 8:36 AM Page 3 (11)



2900308

https://www.phoenixcontact.com/us/products/2900308

Mounting position

Degree of protection (Relay)	RT III (Relay)
Degree of protection (Relay base)	IP20 (Relay base)
Ambient temperature (operation)	-40 °C 60 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
provals	
CE	
Certificate	CE-compliant
JKCA	
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	В
Enclosure	Required protection according to the Rules shall be provided upon installation on board
∕IC data	
Low Voltage Directive	Conformance with Low Voltage Directive
Electromagnetic compatibility	Conformance with EMC directive
andards and regulations	
-	
Standards/regulations	IEC 60947-5-1
punting	
Mounting type	DIN rail mounting
Assembly instructions	in rows with zero spacing

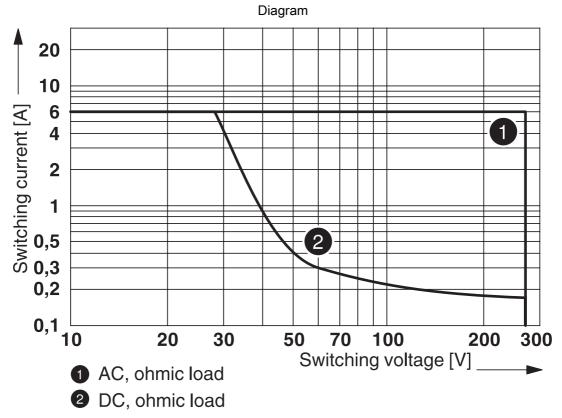
any



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# Drawings



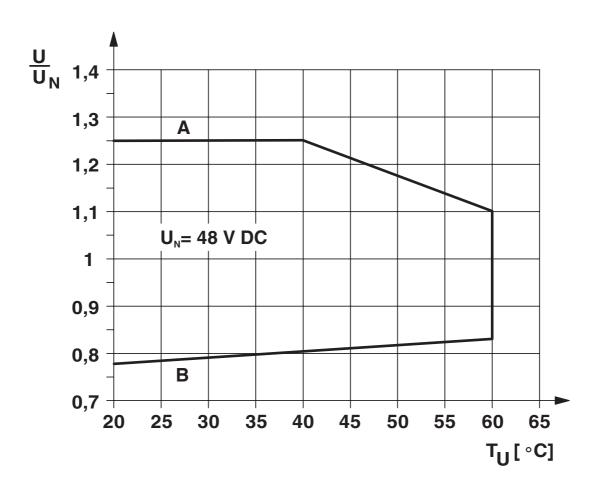
Interrupting rating



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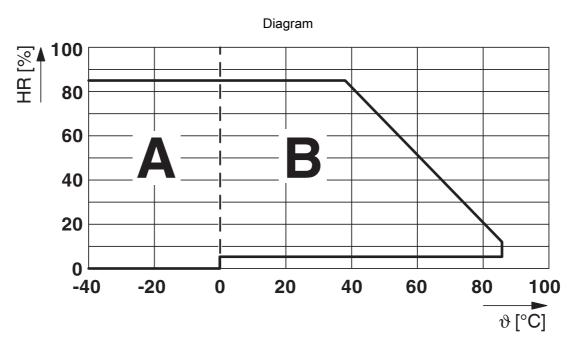
# Curve A Maximum permissible continuous voltage $U_{max}$ with limiting continuous current on the contact side (see relevant technical data) Curve B

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



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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

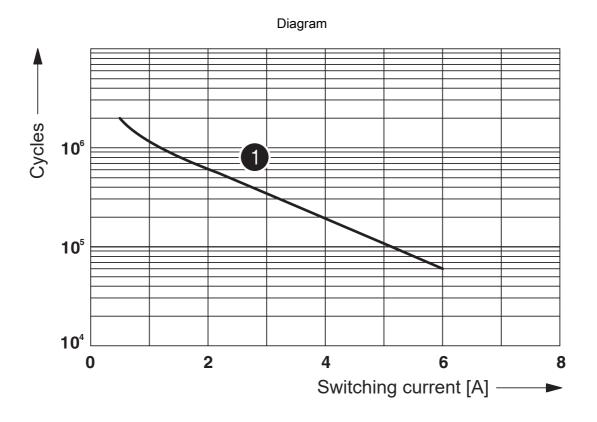
Area B: Condensation at ambient temperatures > 0°C must be prevented

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



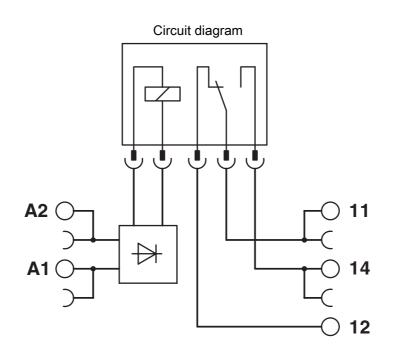
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1 250 V AC, ohmic load

#### Electrical service life





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## **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2900308



cUL Recognized

Approval ID: FILE E 238705



**UL Recognized** 

Approval ID: FILE E 238705



EAC

Approval ID: TR\_TS\_D\_00573\_c



**DNV GL** 

Approval ID: TAE0000196



**UL Listed** 

Approval ID: FILE E 172140



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Approval ID: FILE E 172140



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Approval ID: E140324

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# Classifications

UNSPSC 21.0

## **ECLASS**

ECLASS-11.0	27371601
ECLASS-12.0	27371601
ECLASS-13.0	27371601
ETIM	
ETIM 9.0	EC001437
UNSPSC	

39122300



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## Environmental product compliance

REACh SVHC	Lead 7439-92-1
	Hexahydromethylphthalic anhydride
Ohios Dallo	Facility and the Friend Health Desired - FO conse
China RoHS	Environmentally Friendly Use Period = 50 years

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