

2900315

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PLC-INTERFACE for input functions, consisting of PLC-BPT.../SEN 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 N/O contact, input voltage 230 V AC/220 V DC

#### Your advantages

- · No need for additional modular terminal blocks
- Time savings of up to 60 %
- · Efficient connection to system cabling using V8 adapter
- · Relay modules with safe isolation according to DIN EN 50178 between coil and contact
- Space savings of up to 80 %
- Functional plug-in bridges
- · Sensor connected directly to relay module

#### Commercial data

Item number	2900315
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	CK623B
Catalog page	Page 380 (C-5-2019)
GTIN	4046356507387
Weight per piece (including packing)	35.54 g
Weight per piece (excluding packing)	33.554 g
Customs tariff number	85364900
Country of origin	DE



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#### Technical data

#### Product properties

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

#### 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 <sub>N</sub>	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)	
Drive and function	monostable	
Drive (polarity)	polarized	
Typical input current at U <sub>N</sub>	3.2 mA	
Typical response time	7 ms	
Typical release time	15 ms	
Protective circuit	Bridge rectifier; Bridge rectifier	
Operating voltage display	Yellow LED	

#### Output data

#### Switching

Contact switching type	1 N/O 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 (at 10 mA)
Limiting continuous current	50 mA
Maximum inrush current	50 mA



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Min. switching current	1 mA (24 V)
Short-circuit current	200 A (conditional short-circuit current)
Interrupting rating (ohmic load) max.	1 W (at 24 V DC)
Output fuse	4 A gL/gG NEOZED

#### 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
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)

#### 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 mm <sup>2</sup> 1 mm <sup>2</sup> (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



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Degree of protection (Relay)	RT III (Relay)
Degree of protection (Relay base)	IP20 (Relay base)
Ambient temperature (operation)	-40 °C 70 °C (see to derating)
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	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

Standards/regulations	IEC 60664
	IEC 60664A
	DIN VDE 0110
	IEC 60255/DIN VDE 0435 (in relevant parts)

#### Mounting

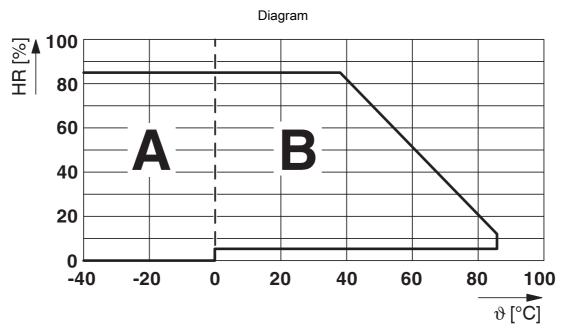
Mounting type	DIN rail mounting
Assembly instructions	in rows with zero spacing
Mounting position	any



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### **Drawings**



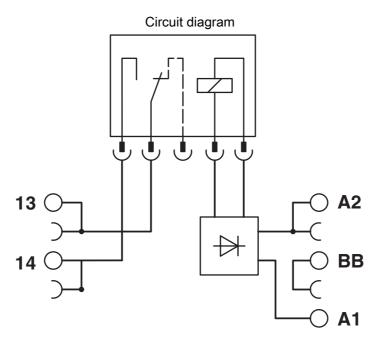
Permissible humidity for operation and storage.

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

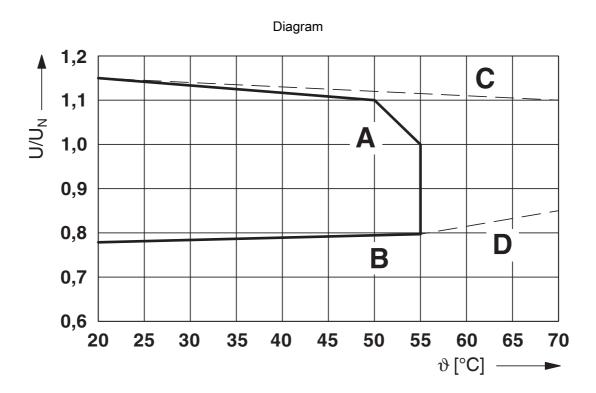
On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature ≤ 25°C.





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 $\textbf{Curve A:} \ \, \textbf{Maximum permissible continuous voltage } \ \, \textbf{U}_{\text{max}} \ \, \text{with limiting continuous current on the contact side, without spacing}$ 

Curve B: Minimum permissible operate voltage  $\mathbf{U}_{op}$  after pre-excitation, without spacing

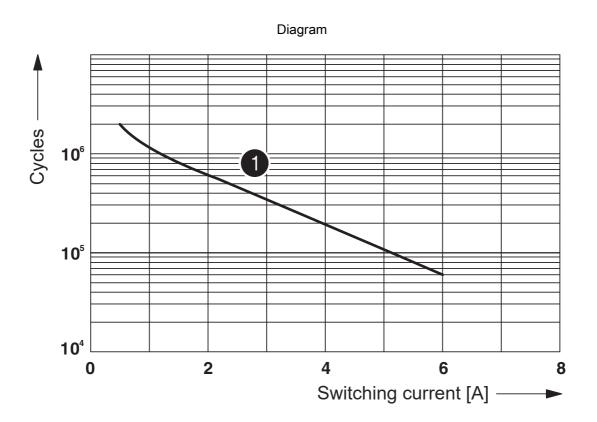
 $\textbf{Curve C:} \ \text{Maximum permissible continuous voltage } \ \textbf{U}_{\text{max}} \ \text{with limiting continuous current on the contact side, with } 9.5 \ \text{mm spacing}$ 

 $\pmb{\text{Curve D:}} \text{ Minimum permissible operate voltage U}_{\text{op}} \text{ after pre-excitation, with 9.5 mm spacing}$ 



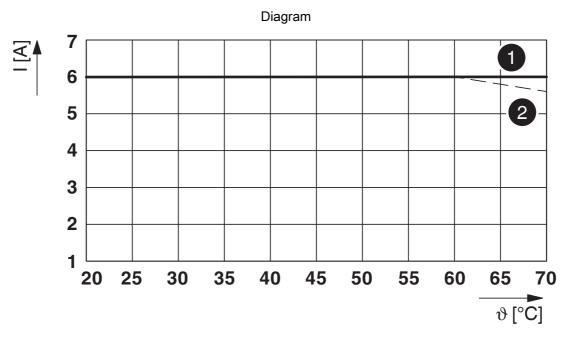
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1 250 V AC, ohmic load

Electrical service life



 $Limiting \ continuous \ current \ per \ contact \ for \ 0.85 \ ... \ 1.1 \ U_N \ (contact-side), \ clearance \ 9.5 \ mm = CLIPFIX \ 35 \ (30222218)$ 

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



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### **Approvals**

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cUL Recognized

Approval ID: FILE E 238705



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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

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### Classifications

#### **ECLASS**

	ECLASS-11.0	27371601
	ECLASS-12.0	27371601
	ECLASS-13.0	27371601
ΕT	ТІМ	
	ETIM 9.0	EC001437
UNSPSC		
	UNSPSC 21.0	39122300



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### Environmental product compliance

REACh SVHC	Lead 7439-92-1
	Hexahydromethylphthalic anhydride
OL: D. HO	E :
China RoHS	Environmentally Friendly Use Period = 50 years

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