

2900301

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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 48 V DC

### Your advantages

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

#### Commercial data

Item number	2900301
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	DK62A6
Product key	DK62A6
Catalog page	Page 364 (C-5-2019)
GTIN	4046356507141
Weight per piece (including packing)	35.478 g
Weight per piece (excluding packing)	32.069 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
Data management status	
Date of last data management	20.03.2025

#### 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 $\mathbf{U}_{\mathbf{N}}$	48 V DC
Input voltage range	37.4 V DC 60 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 <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	yes

#### 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



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	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 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

### Material specifications

Color	gray (RAL 7042)
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 60 °C
Ambient temperature (storage/transport)	-40 °C 85 °C



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### 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
Shipbuilding data	
Temperature	D
Humidity	A
Vibration	B/C
EMC	В
Enclosure	Required protection according to the Rules shall be provided upon installation on board
MC data	
Electromagnetic compatibility	Conformance with EMC directive
Low Voltage Directive	Conformance with Low Voltage Directive
tandards and regulations	
Standards/regulations	IEC 60947-5-1
lounting	
Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

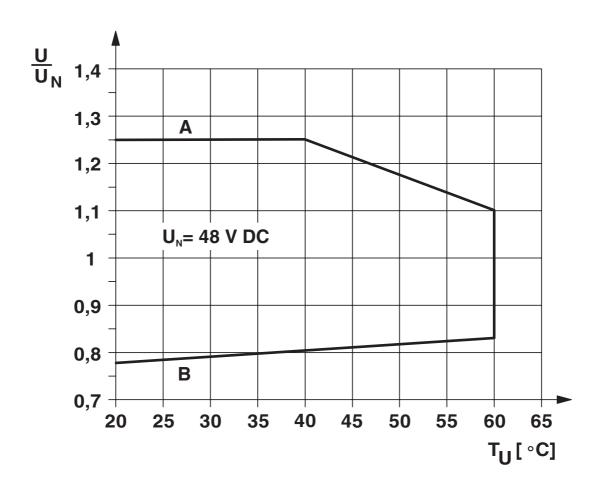


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### Drawings

Diagram



#### Curve A

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

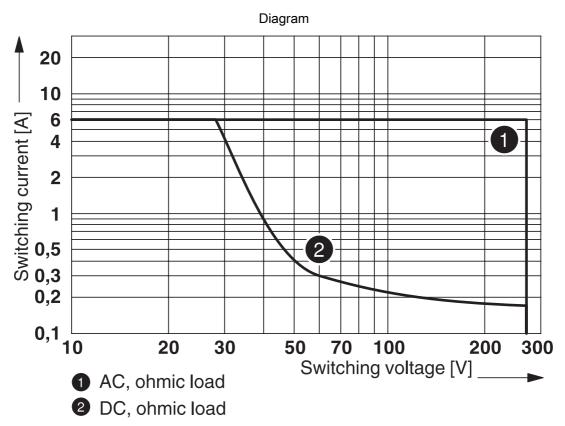
#### Curve B

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



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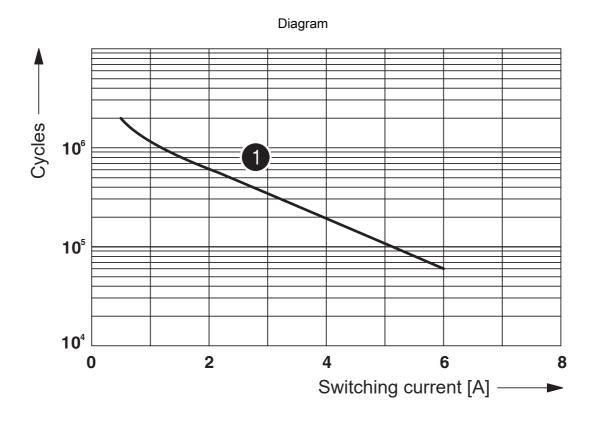


Interrupting rating



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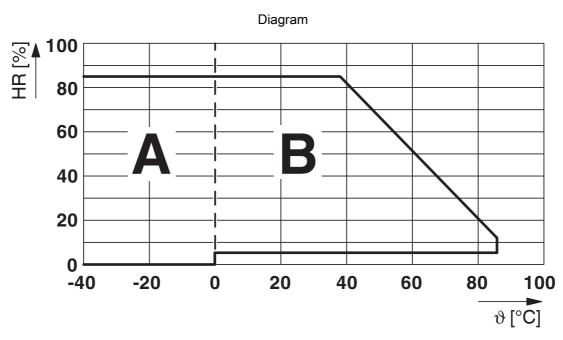
1 250 V AC, ohmic load

Electrical service life



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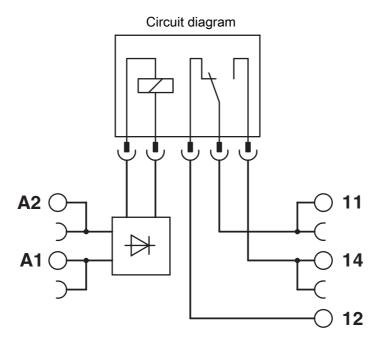
Permissible humidity for operation and storage.

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  $\leq$  25°C.





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### **Approvals**

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**DNV GL** 

Approval ID: TAE0000196



**cULus Listed** Approval ID: E140324



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### Classifications

UNSPSC 21.0

<b>ECLASS</b>
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	ECLASS-13.0	27371601	
ETIM			
	ETIM 9.0	EC001437	
UNSPSC			

39122300



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### 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: 7439-92-1)
SCIP	64f02807-4d4e-4002-aeb6-828005d0449d

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