

2966113

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PLC-INTERFACE, consisting of basic terminal block PLC-BSC.../21 with screw connection and plug-in miniature relay with power contact, for assembly 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
- · Integrated input circuit and interference suppression circuit
- Functional plug-in bridges

Commercial data

Item number	2966113
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	DK6226
GTIN	4017918161972
Weight per piece (including packing)	39.66 g
Weight per piece (excluding packing)	33.89 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 ⁷ cycles	
Data management status		
Date of last data management	12.09.2025	

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 _N	9.2 mA
Typical response time	5 ms
Typical release time	8 ms
Protective circuit	Reverse polarity protection; Polarity protection diode
	Freewheeling diode; 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	Screw connection
Stripping length	8 mm
Screw thread	M3
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 mm ² 1.5 mm ² (TWIN ferrule)
Conductor cross-section AWG	26 14
Tightening torque	0.6 Nm 0.8 Nm

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 base)	IP20 (Relay base)
Ambient temperature (operation)	-40 °C 60 °C



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Ambient temperature (storage/transport)	-40 °C 85 °C		
Approvals			
PP			
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		
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		
Mounting			
Mounting type	DIN rail mounting		
Assembly note	in rows with zero spacing		
Mounting position	any		

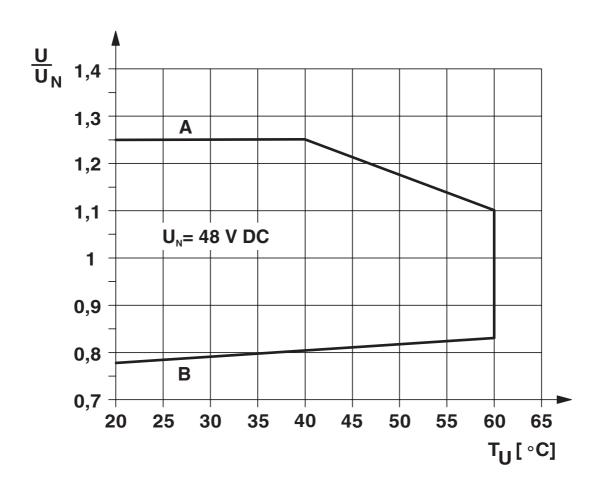


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Drawings

Diagram



Curve A

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

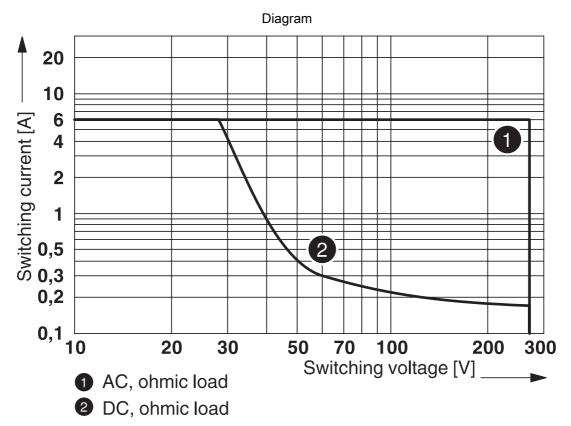
Curve B

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



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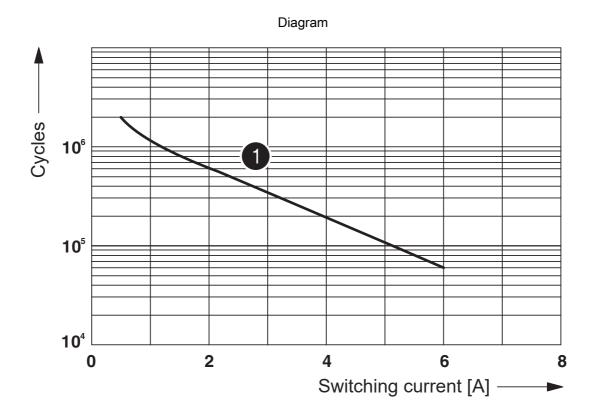


Interrupting rating



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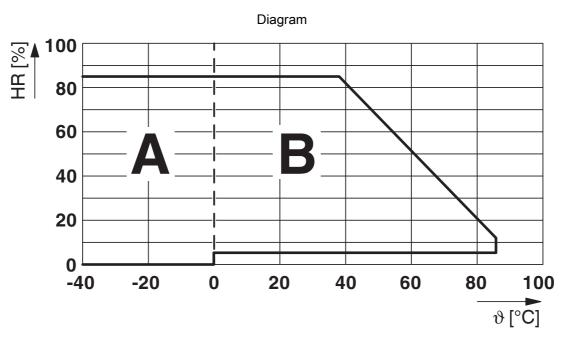
1 250 V AC, ohmic load

Electrical service life



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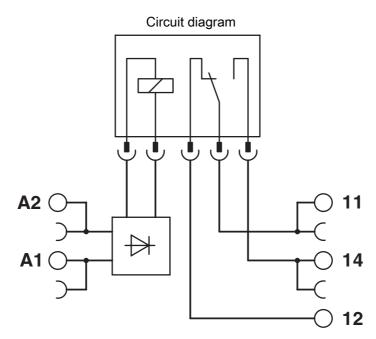
Permissible humidity for operation and storage.

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

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2966113



EAC

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



DNV GL

Approval ID: TAE0000196



cULus ListedApproval ID: E140324



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	27371601
	ECLASS-15.0	27371601
ET	TIM	
	ETIM 9.0	EC001437
UN	ISPSC	

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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	1eb597f0-8722-4b16-af00-bb7d1cde77c0

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