2900330

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PLC-INTERFACE, consisting of PLC-BPT.../21-21 basic terminal block with Push-in connection and plug-in miniature relay with power contact, for mounting on DIN rail NS 35/7,5, 2 changeover contacts, input voltage 24 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	2900330
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C462
Product key	CK62B8
Catalog page	Page 366 (C-5-2019)
GTIN	4046356509893
Weight per piece (including packing)	69.5 g
Weight per piece (excluding packing)	58.1 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	3x 10 <sup>7</sup> cycles
ata management status	
Date of last data management	01.07.2024
Article revision	08
Article revision sulation characteristics	08
	08 Safe isolation of input/output
sulation characteristics	

Maximum power dissipation for nominal condition	0.43 W
Rated surge voltage	6 kV

#### Input data

Coil side	
Nominal input voltage U <sub>N</sub>	24 V DC
Input voltage range	20.2 V DC 33.6 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>	18 mA
Typical response time	8 ms
Typical release time	10 ms
Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection; Freewheeling diode
Operating voltage display	Yellow LED

### Output data

Contact switching type	2 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi
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 AC/DC (10 mA)
Limiting continuous current	6 A
Maximum inrush current	15 A (300 ms)
Min. switching current	10 mA (5 V)
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	85 W (at 48 V DC)
	60 W (at 60 V DC)
	44 W (at 110 V DC)
	60 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity	2 A (at 24 V, DC13)
	3 A (at 24 V, AC15)
	3 A (at 120 V, AC15)
	3 A (at 250 V, AC15)
	0.2 A (at 250 V, DC13)

#### Connection data

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section rigid	0.14 mm <sup>2</sup> 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.14 mm <sup>2</sup> 2.5 mm <sup>2</sup>
	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

#### Dimensions

Width	14 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

#### Approvals

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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
/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
would light type	
Assembly note	in rows with zero spacing

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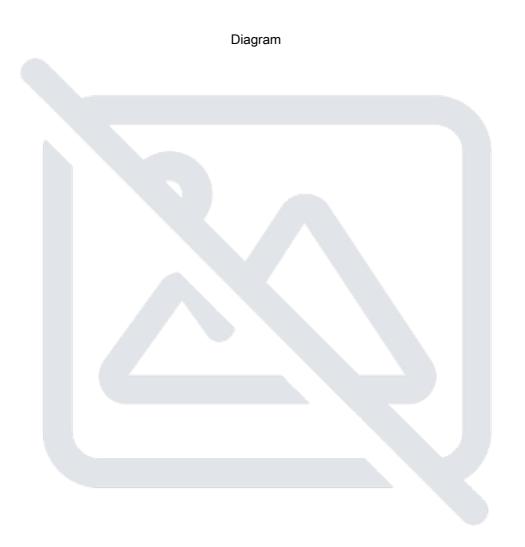
### Drawings

Circuit diagram



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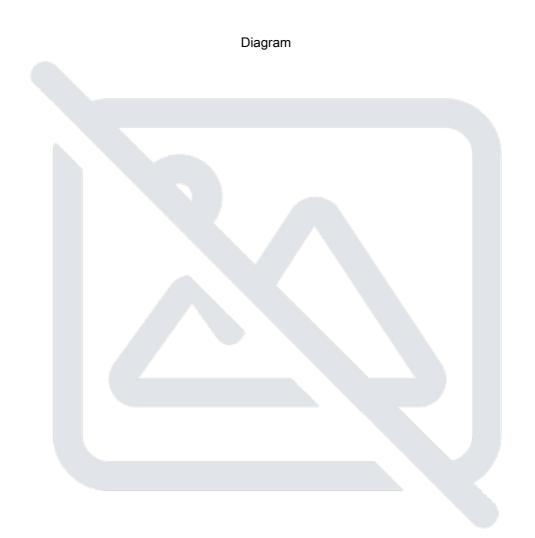


Interrupting rating



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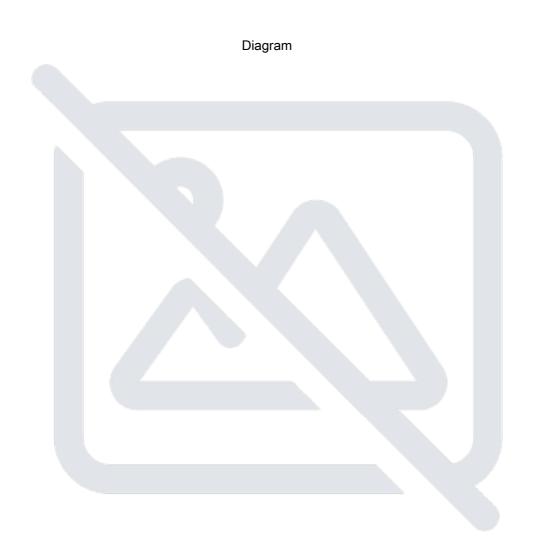


Limiting continuous current per contact for 0.85 ... 1.1  $U_N$  (contact-side) (1) Limiting continuous current for horizontal installation position without clearance (2) Limiting continuous current for vertical installation position without clearance



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### Curve A

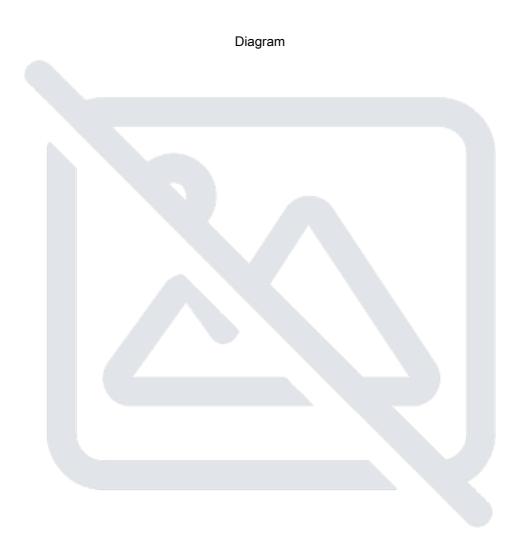
Maximum permissible continuous voltage  $U_{max}$  with limiting continuous current on the contact side (see relevant technical data) Curve B

Minimum permissible operate voltage  $U_{op}$  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  $\leq 0^{\circ}$ 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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### Approvals

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Approval ID: E238705	
Approval ID: E238705	
ERE EAC Approval ID: TR_TS_D_00573_c	
DNV GL     Approval ID: TAE0000196	
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

#### ETIM

	ETIM 9.0	EC001437		
UN	UNSPSC			
	UNSPSC 21.0	39122300		

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### Environmental product compliance

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
hina 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 "Manufacture declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
U REACH SVHC	
REACH candidate substance (CAS No.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
SCIP	98b81d33-acc6-4c7b-9648-b3ac3cc8b5c1
F3.0 Climate Change	

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