#### 2900322

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PLC-INTERFACE for railway applications, consisting of basic terminal block with Push-in connection and plug-in miniature relay with multi-layer gold contact, range:  $0.7 \times U_N$  to  $1.25 \times U_N$ , temperature class TX: -40°C to +70°C, 1 changeover contact, input voltage 72 V DC

### Your advantages

- · Optimum relay operation thanks to wide-range electronics
- Vibration and shock resistance in accordance with EN 50155
- Certified in accordance with EN 50155
- · Safe isolation between coil and contact side
- Input voltage range of 0.7 to 1.25 x UN (1.4 x UN briefly)
- Temperature range: -40 °C ... + 70 °C (short-term 85 °C)

### Commercial data

Item number	2900322
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Sales key	C461
Product key	CK62BL
Catalog page	Page 420 (C-5-2019)
GTIN	4046356510059
Weight per piece (including packing)	33.36 g
Weight per piece (excluding packing)	33.36 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	Railway applications
Installation location	Attached to the vehicle body
Operating mode	100% operating factor
Mechanical service life	approx. 2x 10 <sup>7</sup> cycles
Data management status Date of last data management	08.07.2024
Article revision	09
Insulation characteristics	
Overvoltage category	III
Pollution degree	2

### Electrical properties

Maximum power dissipation for nominal condition	0.22 W
Test voltage (Winding/contact)	4 kV <sub>rms</sub> (50 Hz, 1 min., winding/contact)
Rated insulation voltage	250 V AC
Rated surge voltage	6 kV

#### Input data

Coil side	
Nominal input voltage U <sub>N</sub>	72 V DC
Input voltage range	50.4 V DC 90 V DC
Nominal voltage (plugged-in electromechanical relay)	48 V DC
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U <sub>N</sub>	3 mA
Typical response time	4 ms
Typical release time	4 ms
Protective circuit	Surge protection; Freewheeling diode
	RCZ filter
	Wide-range electronics
Operating voltage display	Yellow LED

### Output data

Switching	
Contact switching type	1 changeover contact
Type of switch contact	Single contact

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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)
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
Switching capacity	1 A (24 V (DC13))
	0.2 A (110 V (DC13))
	0.1 A (220 V (DC13))
	3 A (24 V (AC15))
	3 A (120 V (AC15))
	3 A (230 V (AC 15))

#### 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 (Separating plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal blocks in adjacent modules.)
Minimum switching voltage	12 V AC/DC
Limiting continuous current	6 A
Min. switching current	10 mA
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)

#### 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	6.2 mm
Height	80 mm

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Ambient temperature (storage/transport)

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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 70 °C (Temperature class TX)

-40 °C ... 85 °C

### Approvals

Certificate	CE-compliant
	i i print
IKCA	
Certificate	UKCA-compliant
hipbuilding approval	
Certificate	TAE0000196
Corrosive gas test	
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60
NV GL data	
Temperature	D
Humidity	A
Vibration	B/C
EMC	В
EMIC	

	Low Voltage Directive	Conformance with Low Voltage Directive
	Electromagnetic compatibility	Conformance with EMC directive

### Standards and regulations

Standards/regulations	IEC 60947-5-1
	EN 50155 (VDE 0115 part 200)
	EN 61373
	EN 50121



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Mounting type	DIN rail mounting
Thread type	0
Assembly note	in rows with zero spacing
Mounting position	any

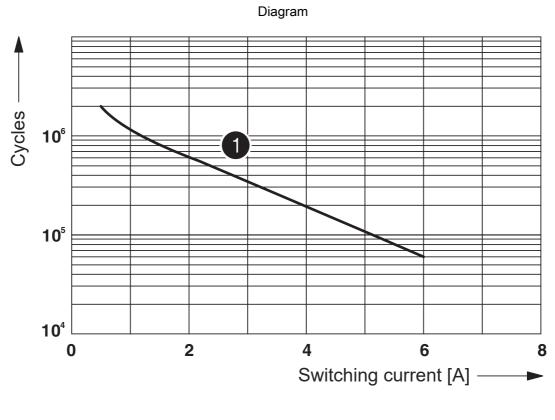
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### Drawings



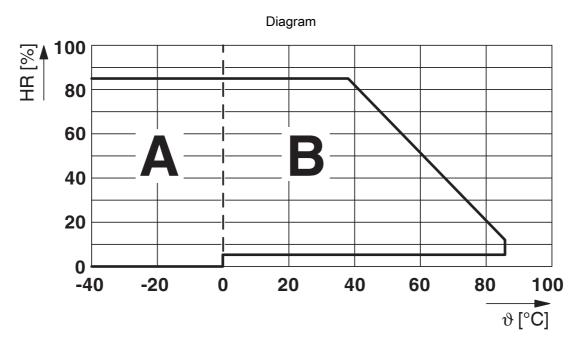
1 250 V AC, ohmic load

Electrical service life



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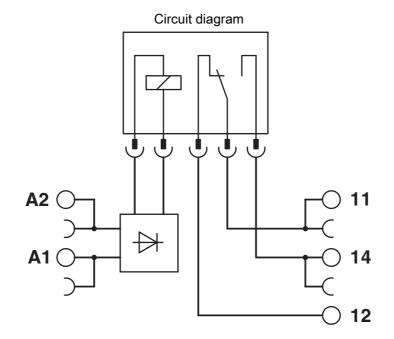


Permissible humidity for operation and storage.

The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures  $\leq 0^{\circ}$ C must be prevented Area B: Condensation at ambient temperatures > 0°C must be prevented

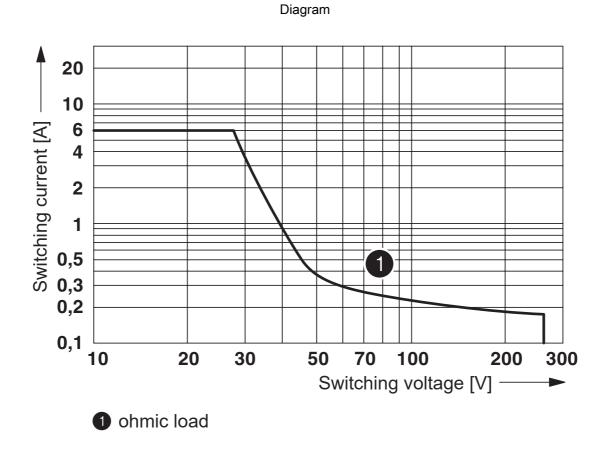
On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature ≤ 25°C.





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DC interrupting rating



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### Approvals

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<b>.F</b> \\	CUL Recognized Approval ID: E238705
<b>91</b>	UL Recognized Approval ID: E238705
EAC	EAC Approval ID: TR_TS_D_00573_c
	DNV GL Approval ID: TAE0000196
ERC	EAC Approval ID: RU*C-DE.*08.B.00010
	UL Listed Approval ID: FILE E 172140
٩	CUL Listed Approval ID: FILE E 172140
<u>.</u>	CULus Listed Approval ID: E140324
cl	JLus Recognized
cl	JLus Listed

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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

#### 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.)	Lead(CAS: 7439-92-1)
SCIP	0efc9a81-e773-4a92-a263-0d39d73a2f5b

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