

2900318

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PLC-INTERFACE for railway applications, consisting of basic terminal block with Push-in connection and plug-in miniature relay with power contact, range: 0.7 x $\rm U_N$ to 1.25 x $\rm U_N$, temperature class TX: -40°C to +70°C, 1 changeover contact, input voltage 24 V DC

Your advantages

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

Commercial data

Item number	2900318
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	CK62AL
Product key	CK62AL
Catalog page	Page 420 (C-5-2019)
GTIN	4046356507400
Weight per piece (including packing)	33 g
Weight per piece (excluding packing)	33.46 g
Customs tariff number	85364190
Country of origin	DE



2900318

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Technical data

Product properties

Relay Module
PLC-INTERFACE
Railway applications
Attached to the vehicle body
100% operating factor
approx. 2x 10 ⁷ cycles
08.07.2024
09
III
2

Electrical properties

Maximum power dissipation for nominal condition	0.22 W
Test voltage (Winding/contact)	4 kV _{rms} (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 _N	24 V DC
Input voltage range	18.5 V DC 33.6 V DC
Input voltage range in reference to U_N	0.7 1.25
Nominal voltage (plugged-in electromechanical relay)	12 V DC
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U _N	9 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



2900318

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Type of switch contact	Single contact
Contact material	AgSnO
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 termina blocks in adjacent modules.)
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	1 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



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Mounting position

IP20 (Relay base) -40 °C 70 °C (Temperature class TX) -40 °C 85 °C CE-compliant UKCA-compliant TAE0000196
-40 °C 85 °C CE-compliant UKCA-compliant
CE-compliant UKCA-compliant
UKCA-compliant
UKCA-compliant
UKCA-compliant
TAE0000106
TAE0000106
1 VE0000 130
ISA-S71.04. G3 Harsh Group
EN 60068-2-60
D
A
B/C
В
Required protection according to the Rules shall be provided upon installation on board
Conformance with EMC directive
Conformance with Low Voltage Directive
IEC 60947-5-1
EN 50155 (VDE 0115 part 200)
EN 61373
EN 50121
DIN rail mounting
DIN rail mounting in rows with zero spacing

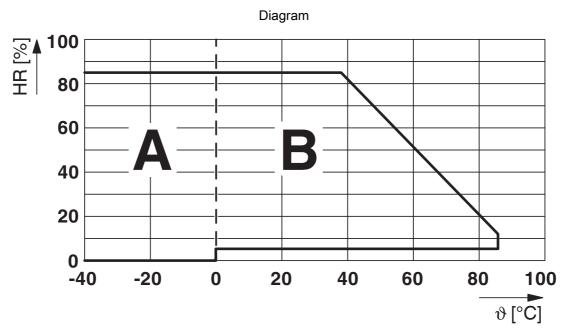
any



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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

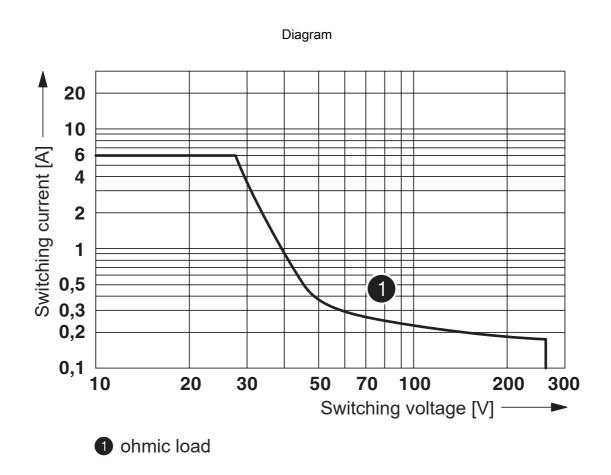
Area B: Condensation at ambient temperatures > 0°C must be prevented

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.



2900318

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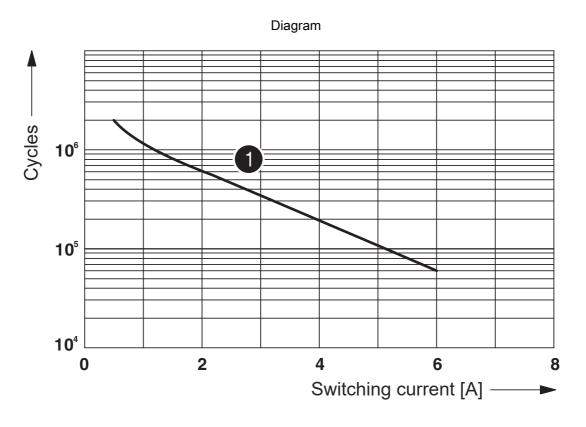


DC interrupting rating



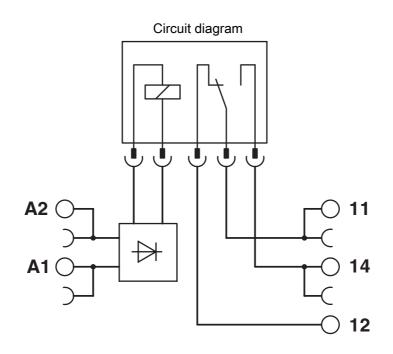
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1 250 V AC, ohmic load

Electrical service life





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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2900318



cUL RecognizedApproval ID: E238705



UL RecognizedApproval ID: E238705



DNV GL

Approval ID: TAE0000196



UL Listed

Approval ID: FILE E 172140



cUL Listed

Approval ID: FILE E 172140



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27371601
ECLASS-12.0	27371601
ECLASS-13.0	27371601
ETIM	
ETIM 9.0	EC001437
UNSPSC	

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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	fe0e2dc9-25c4-414c-a559-cec3a204a0c7
EF3.0 Climate Change	
CO2e kg	0.499 kg CO2e

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