

2900349

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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 x U_N to 1.25 x U_N , temperature class TX: -40°C to +70°C, 2 changeover contacts, input voltage 24 V DC

Your advantages

- · Optimum relay operation thanks to wide-range electronics
- Vibration and shock resistance in accordance with EN 50155
- · Safe isolation between coil and contact side
- · Certified in accordance with EN 50155
- 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	2900349
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	DK62BL
GTIN	4046356507530
Weight per piece (including packing)	64.16 g
Weight per piece (excluding packing)	60.49 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	Railway applications
Environment	Attached to the vehicle body
Operating mode	100% operating factor
Mechanical service life	approx. 3x 10 ⁷ cycles
Insulation characteristics	
Insulation characteristics Insulation	Basic insulation
	Basic insulation
Insulation	
Insulation Overvoltage category	III

Electrical properties

Maximum power dissipation for nominal condition	0.48 W
Test voltage (Winding/contact)	5 kV _{rms} (50 Hz, 1 min., winding/contact)
Test voltage (Changeover contact/changeover contact)	$2.5~\mathrm{kV_{rms}}$ (50 Hz, 1 min., changeover contact/changeover 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	20.2 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	20 mA
Typical response time	5 ms
Typical release time	11 ms
Protective circuit	Bridge rectifier
	Surge protection; Freewheeling diode
	RCZ filter
	Wide-range electronics
Operating voltage display	Yellow LED

Output data



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Switching

Contact switching type	2 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi, 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)
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)

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	5 V AC/DC
Limiting continuous current	6 A
Maximum inrush current	8 A
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
	100 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)
	0.2 A (at 110 V, DC13)
	0.2 A (at 250 V, DC13)
	2 A (at 24 V, AC15)
	2 A (at 120 V, AC15)
	2 A (at 250 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 mm ² 1 mm ² (TWIN ferrule)
Conductor cross-section AWG	26 14



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Dimensions

Width	14 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)	RT III (Relay)
Degree of protection (Relay base)	IP20 (Relay base)
Ambient temperature (operation)	-40 °C 70 °C (Temperature class TX)
Ambient temperature (storage/transport)	-40 °C 85 °C

Approvals

CE-compliant
UKCA-compliant
TAE0000196
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
	EN 50155 (VDE 0115 part 200)



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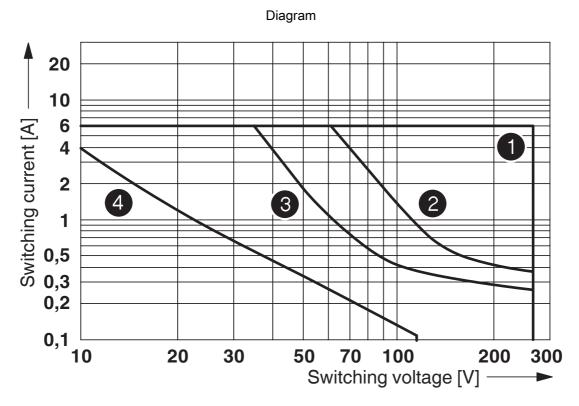
	EN 61373		
	EN 50121		
Mounting			
Mounting type	DIN rail mounting		
Assembly note	in rows with zero spacing		
Mounting position			



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Drawings



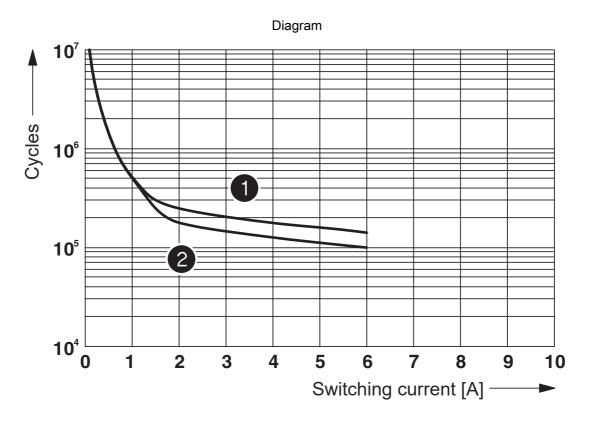
- 1 AC, ohmic load
- 2 DC, ohmic load, contacts in series
- 3 DC, ohmic load
- **4** DC, L/R = 40 ms

Interrupting rating



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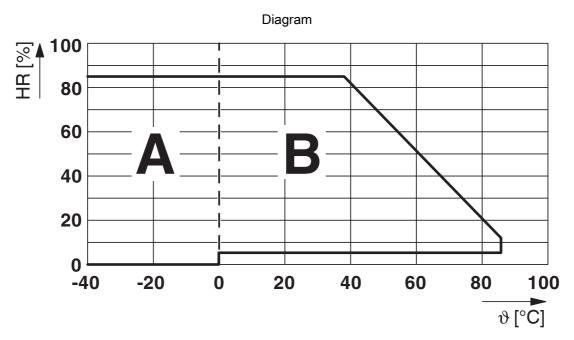
- 250 V AC, ohmic load (DC coils)
 250 V AC, ohmic load (AC coils)

Electrical service life



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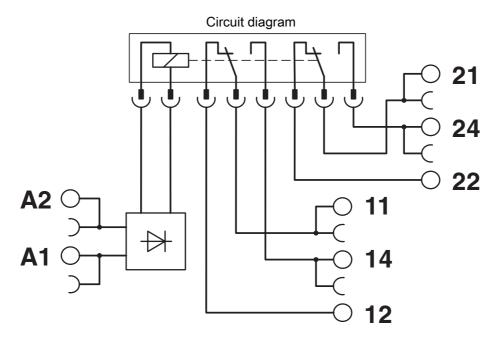
Permissible humidity for operation and storage.

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/2900349



DNV GL

Approval ID: TAE0000196



cULus Listed Approval ID: E140324



cUL RecognizedApproval ID: E238705



UL Recognized

Approval ID: E238705



UL Listed

Approval ID: FILE E 172140



cUL Listed

Approval ID: FILE E 172140



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Classifications

ECLASS

	ECLASS-13.0	27371601		
	ECLASS-15.0	27371601		
ETIM				
	ETIM 9.0	EC001437		
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	3c0201e5-beaa-49f6-8e8d-1c6c6bd59949

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