

2900351

https://www.phoenixcontact.com/us/products/2900351

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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 110 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
- 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	2900351
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	CK62BL
Catalog page	Page 421 (C-5-2019)
GTIN	4046356510097
Weight per piece (including packing)	64.17 g
Weight per piece (excluding packing)	64.17 g
Customs tariff number	85364900
Country of origin	DE



2900351

https://www.phoenixcontact.com/us/products/2900351

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. 3x 10 ⁷ cycles	
Data management status		
Date of last data management	08.07.2024	
Article revision	08	
Insulation characteristics		
Insulation	Basic insulation	
Overvoltage category	III	
Pollution degree	2	

Electrical properties

Maximum power dissipation for nominal condition	0.5 W
Test voltage (Winding/contact)	5 kV _{rms} (50 Hz, 1 min., winding/contact)
Test voltage (Changeover contact/changeover contact)	2.5 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	110 V DC
Input voltage range	77 V DC 137.5 V DC
Input voltage range in reference to $\mathbf{U}_{\mathbf{N}}$	0.7 1.25
Nominal voltage (plugged-in electromechanical relay)	60 V DC
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U _N	4.5 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



2900351

https://www.phoenixcontact.com/us/products/2900351

Output data

Switching

3	
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	12 V AC/DC
Limiting continuous current	2x 6 A (see derating curve)
Maximum inrush current	15 A (300 ms)
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)



2900351

https://www.phoenixcontact.com/us/products/2900351

Conductor cross section AWG	26 14
mensions	
Width	14 mm
Height	80 mm
Depth	94 mm
aterial specifications	
Color	gray (RAL 7042)
Flammability rating according to UL 94	V0 (Housing)
nvironmental and real-life conditions	
Ambient conditions	
Degree of protection (Relay base)	IP20 (Relay base)
Degree of protection (Relay)	RT III (Relay)
Ambient temperature (operation)	-40 °C 70 °C (Temperature class TX)
Ambient temperature (storage/transport)	-40 °C 85 °C
UKCA Certificate	LIKCA-compliant
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
MC data	
Electromagnetic compatibility	Conformance with EMC directive
Low Voltage Directive	Conformance with Low Voltage Directive
tandards and regulations	
	IEC 60947-5-1



2900351

https://www.phoenixcontact.com/us/products/2900351

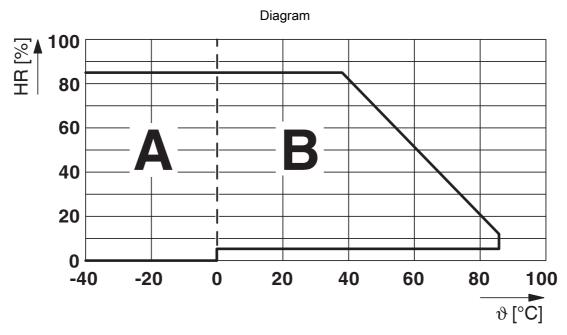
Standards/regulations	EN 50155 (VDE 0115 part 200)
	EN 61373
	EN 50121
Mounting	
Mounting type	DIN rail mounting
Mounting type Assembly note	DIN rail mounting in rows with zero spacing



2900351

https://www.phoenixcontact.com/us/products/2900351

Drawings



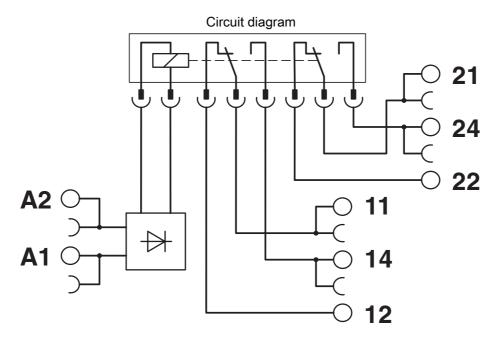
Permissible humidity for operation and storage.

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

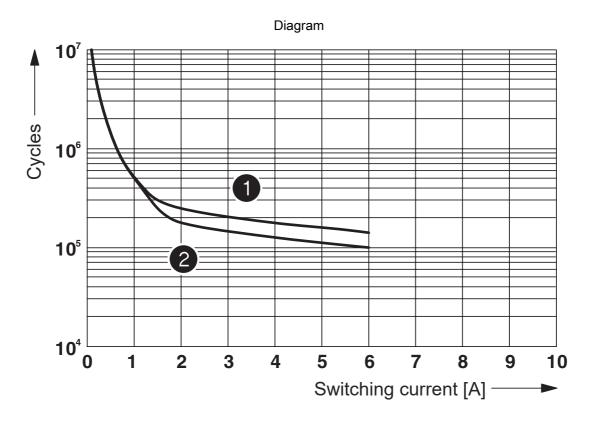
On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature ≤ 25°C.





2900351

https://www.phoenixcontact.com/us/products/2900351



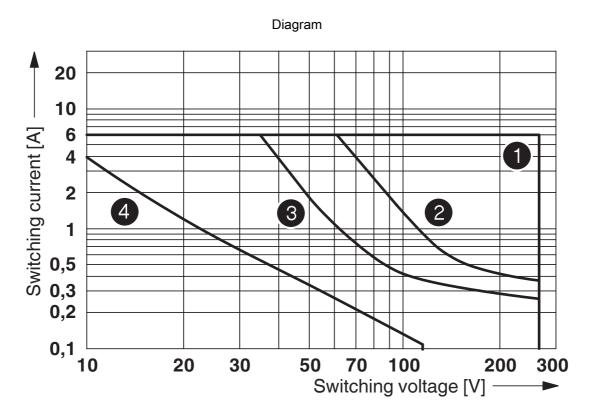
- 250 V AC, ohmic load (DC coils)
 250 V AC, ohmic load (AC coils)

Electrical service life



2900351

https://www.phoenixcontact.com/us/products/2900351



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

Interrupting rating



2900351

https://www.phoenixcontact.com/us/products/2900351

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2900351



cUL RecognizedApproval ID: E238705



UL RecognizedApproval ID: E238705



EAC

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



DNV GL

Approval ID: TAE0000196



UL Listed

Approval ID: FILE E 172140



cUL Listed

Approval ID: FILE E 172140



cULus ListedApproval ID: E140324

cULus Recognized

cULus Listed



2900351

https://www.phoenixcontact.com/us/products/2900351

Classifications

ECLASS

	ECLASS-11.0	27371601			
	ECLASS-12.0	27371601			
	ECLASS-13.0	27371601			
ET	ETIM				
	ETIM 9.0	EC001437			
UNSPSC					
	UNSPSC 21.0	39122300			



2900351

https://www.phoenixcontact.com/us/products/2900351

Environmental product compliance

EU RoHS

Yes
7(a), 7(c)-l
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.
Lead(CAS: 7439-92-1)
a48fabf5-6f3a-4ab4-88bf-7fc0cdb348be

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com