#### 2900347

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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  $U_N$  to 1.25 x  $U_N$ , temperature class TX: -40°C to +70°C, 2 changeover contacts, input voltage 72 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	2900347
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	CK623C
Catalog page	Page 421 (C-5-2019)
GTIN	4046356507516
Weight per piece (including packing)	62.92 g
Weight per piece (excluding packing)	64.67 g
Customs tariff number	85364900
Country of origin	DE

2900347

https://www.phoenixcontact.com/us/products/2900347

## Technical data

### **Product properties**

Product type	Relay Module
Product family	PLC-INTERFACE
Installation location	Attached to the vehicle body
Application	Railway applications
Operating mode	100% operating factor
Mechanical service life	approx. 3x 10 <sup>7</sup> cycles
Insulation characteristics	
Insulation	Basic insulation
Insulation characteristics	
Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

### Electrical properties

Maximum power dissipation for nominal condition	0.43 W
Test voltage (Winding/contact)	5 kV <sub>rms</sub> (50 Hz, 1 min., winding/contact)
Test voltage (Changeover contact/changeover contact)	2.5 kV <sub>rms</sub> (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 <sub>N</sub>	72 V DC
Input voltage range	50.4 V DC 90 V DC
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U <sub>N</sub>	6 mA
Typical response time	5 ms
Typical release time	11 ms
Coil voltage	48 V DC
Protective circuit	Bridge rectifier
	Surge protection; Freewheeling diode
	RCZ filter
	Wide-range electronics
Operating voltage display	Yellow LED

### Output data

Switching

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#### 2900347

https://www.phoenixcontact.com/us/products/2900347

Contact switching type	2 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi
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 (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)
	0.2 A (at 250 V, DC13)
	3 A (at 24 V, AC15)
	3 A (at 120 V, AC15)
	3 A (at 250 V, AC15)

#### 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
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Degree of protection (Relay)	RT III (Relay)
Degree of protection (Relay base)	IP20 (Relay base)



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Ambient temperature (operation)	-40 °C 70 °C (Temperature class TX)
Ambient temperature (storage/transport)	-40 °C 85 °C
provals	
CE	
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	Α
Vibration	B/C
EMC	В
Enclosure	Required protection according to the Rules shall be provided upon installation on board
MC data	
Low Voltage Directive	Conformance with Low Voltage Directive
Electromagnetic compatibility	Conformance with EMC directive
andards and regulations	
Standards/regulations	IEC 60947-5-1
	EN 50155 (VDE 0115 part 200)

### Mounting

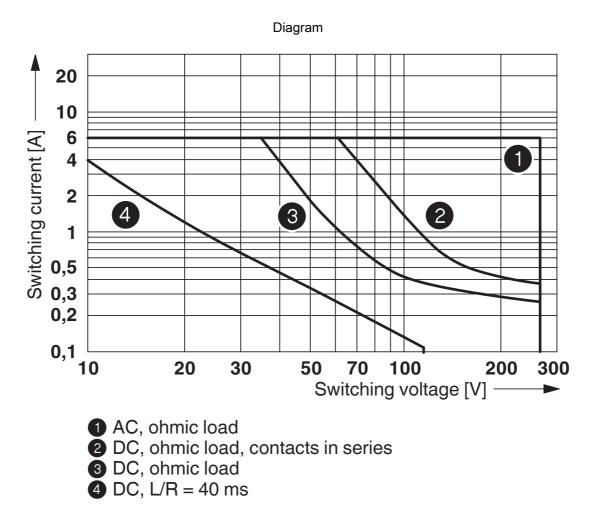
Mounting type	DIN rail mounting
Assembly instructions	in rows with zero spacing
Mounting position	any

EN 61373 EN 50121 **PHŒNIX** CONTACT



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## Drawings



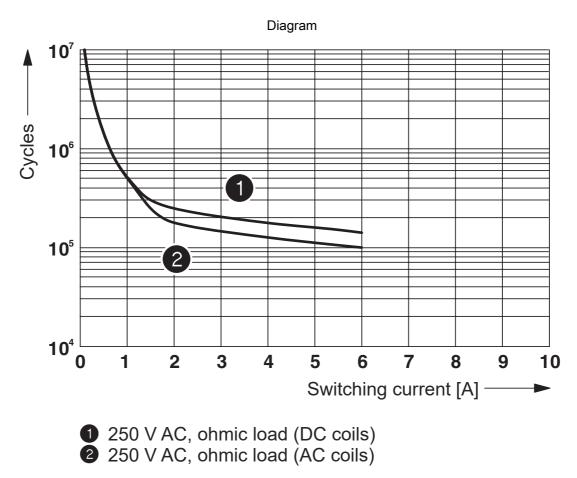
Interrupting rating

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2900347

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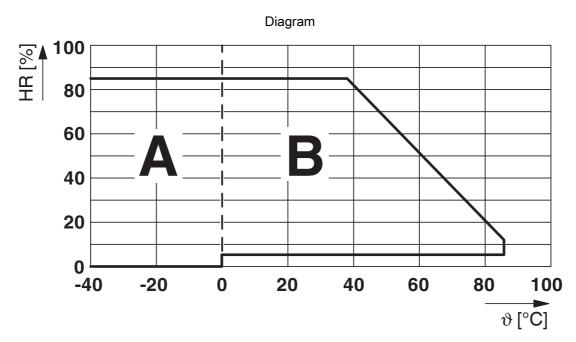


Electrical service life



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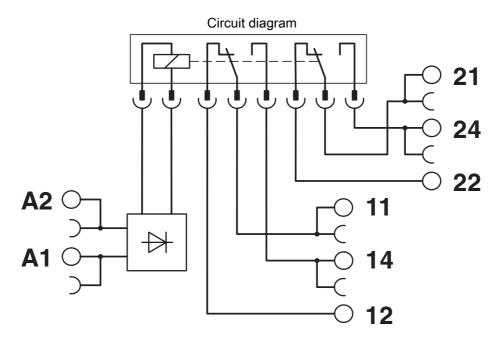


Permissible humidity for operation and storage.

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.





2900347

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## Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2900347

<b>LR</b> :	CUL Recognized Approval ID: FILE E 238705
LR	UL Recognized Approval ID: FILE E 238705
ERC	EAC
LIIL	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
· <b>B</b>	CUL Listed Approval ID: FILE E 172140
· <u>@</u> .	CULus Listed Approval ID: E140324
С	ULus Recognized
С	ULus Listed

2900347

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## Classifications

### ECLASS

ECLASS-11.0	27371601
ECLASS-12.0	27371601
ECLASS-13.0	27371601

### ETIM

	ETIM 9.0	EC001437			
UNSPSC					
	UNSPSC 21.0	39122300			

2900347

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## Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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