

# PLC-RPT- 72UC/21HC/RW - Relay Module



2900325

<https://www.phoenixcontact.com/us/products/2900325>

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 and high continuous currents, consisting of basic terminal block with Push-in connection and plug-in miniature relay, range:  $0.7 \times U_N$  to  $1.25 \times U_N$ , temperature class TX:  $-40^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ , 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
- Safe isolation between coil and contact side
- Certified in accordance with EN 50155
- Temperature range:  $-40^{\circ}\text{C}$  ...  $+70^{\circ}\text{C}$  (short-term  $85^{\circ}\text{C}$ )
- Input voltage range of  $0.7$  to  $1.25 \times U_N$  ( $1.4 \times U_N$  briefly)

## Commercial data

Item number	2900325
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C461
Product key	CK623A
Catalog page	Page 421 (C-5-2019)
GTIN	4046356507424
Weight per piece (including packing)	99.99 g
Weight per piece (excluding packing)	99.99 g
Customs tariff number	85364900
Country of origin	DE

# PLC-RPT- 72UC/21HC/RW - Relay Module



2900325

<https://www.phoenixcontact.com/us/products/2900325>

## 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. $3 \times 10^7$ 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)
Rated insulation voltage	250 V AC
Rated surge voltage	6 kV

### Input data

#### Coil side

Nominal input voltage $U_N$	72 V DC
Input voltage range	50.4 V DC ... 90 V DC
Drive and function	monostable
Typical input current at $U_N$	6 mA
Typical response time	5 ms
Typical release time	11 ms
Coil voltage	48 V DC
Protective circuit	Bridge rectifier; Bridge rectifier
	Freewheeling diode; Freewheeling diode
	Surge protection
	RCZ filter
	Wide-range electronics
Operating voltage display	Yellow LED

### Output data

#### Switching

Contact switching type	1 changeover contact
------------------------	----------------------

# PLC-RPT- 72UC/21HC/RW - Relay Module



2900325

<https://www.phoenixcontact.com/us/products/2900325>

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	12 V (at 10 mA)
Limiting continuous current	10 A (With inserted bridge 2967691)
Maximum inrush current	30 A (300 ms)
Min. switching current	10 mA (at 12 V)
Interrupting rating (ohmic load) max.	240 W (at 24 V DC)
	58 W (at 48 V DC)
	48 W (at 60 V DC)
	50 W (at 110 V DC)
	75 W (at 220 V DC)
	2500 VA (for 250 V AC)
Switching capacity	2 A (24 V (DC13))
	0.2 A (220 V (DC13))
	6 A (230 V (AC 15))

## 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

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

# PLC-RPT- 72UC/21HC/RW - Relay Module



2900325

<https://www.phoenixcontact.com/us/products/2900325>

## 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	A
Vibration	B/C
EMC	B
Enclosure	Required protection according to the Rules shall be provided upon installation on board

## EMC data

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

## Standards and regulations

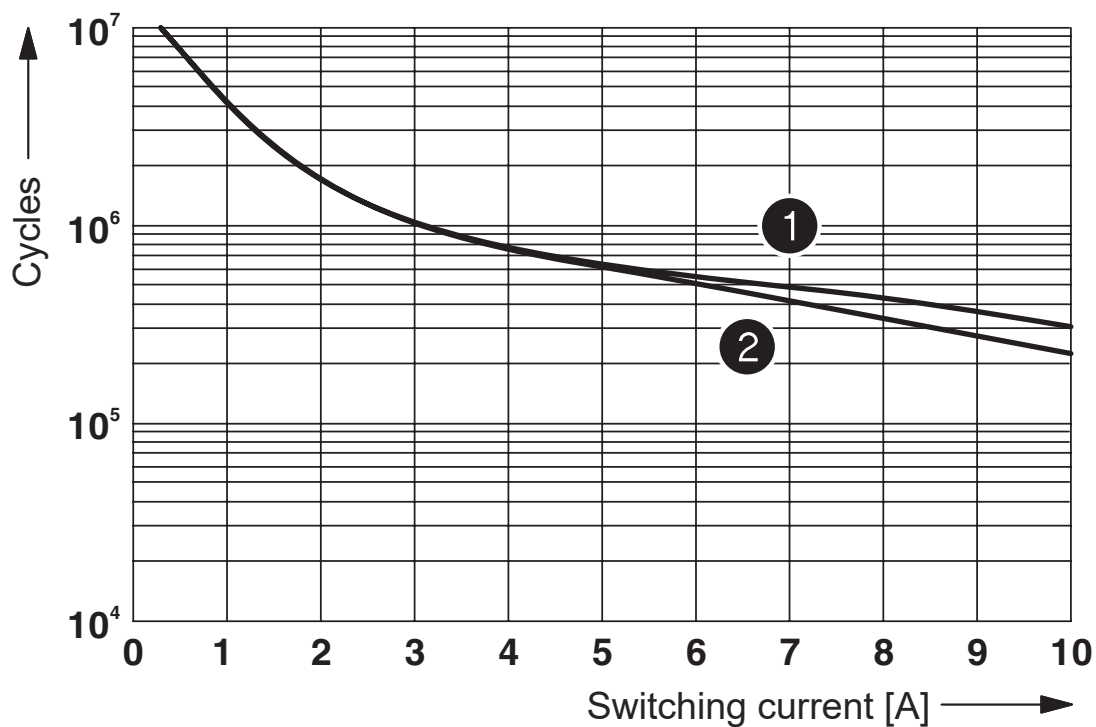
Standards/regulations	EN 50155 (VDE 0115 part 200)
	EN 50178
	EN 61373
	EN 50121

## Mounting

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

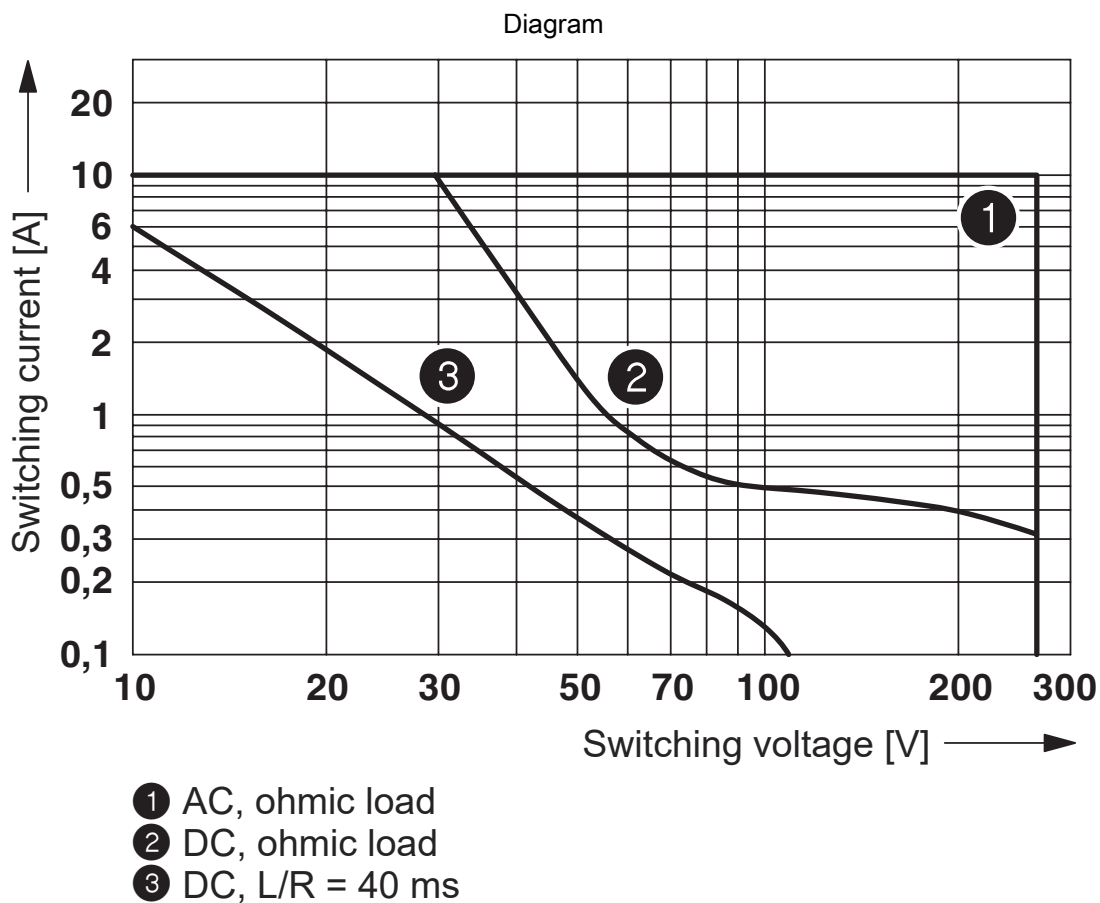
## Drawings

Diagram

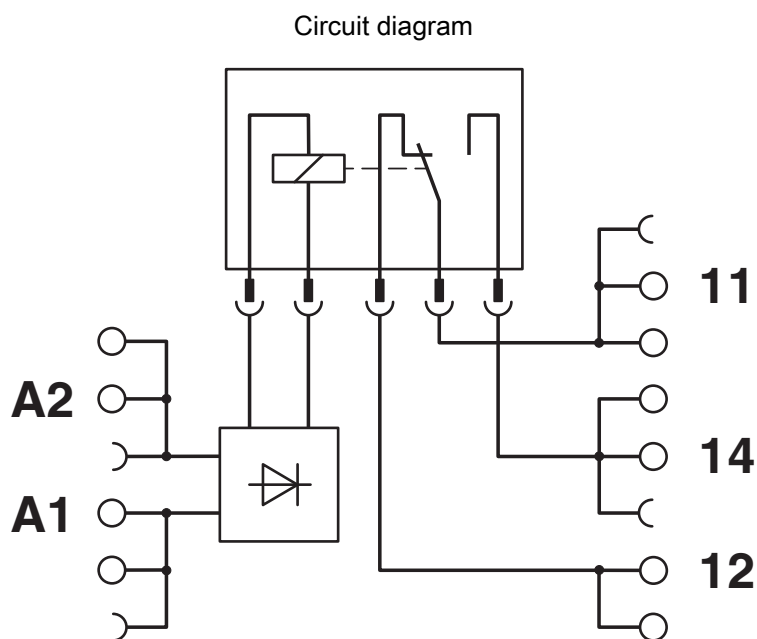


- ① 250 V AC, ohmic load (DC coils)
- ② 250 V AC, ohmic load (AC coils)

Electrical service life



Interrupting rating



# PLC-RPT- 72UC/21HC/RW - Relay Module



2900325

<https://www.phoenixcontact.com/us/products/2900325>

## Classifications

### ECLASS

ECLASS-11.0	27371601
-------------	----------

### ETIM

ETIM 8.0	EC001437
----------	----------

### UNSPSC

UNSPSC 21.0	39122300
-------------	----------

# PLC-RPT- 72UC/21HC/RW - Relay Module



2900325  
<https://www.phoenixcontact.com/us/products/2900325>

## Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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](mailto:info@phoenixcon.com)