

# PLC-RSP- 24DC/21-21 - Relay module



2912507

<https://www.phoenixcontact.com/us/products/2912507>

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, consisting of PLC-BSP.../21 basic terminal block with spring-cage connection and plug-in miniature relay with power contact, for mounting on NS 35/7,5 DIN rail, 2 changeover contacts, 24 V DC input voltage

## Your advantages

- Slim design
- Efficient connection to system cabling using V8 adapter
- RT III sealed relay
- Safe isolation between coil and contact side
- Functional plug-in bridges
- Integrated input circuit and interference suppression circuit

## Commercial data

Item number	2912507
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C461
Product key	DK622C
GTIN	4046356050913
Weight per piece (including packing)	63.06 g
Weight per piece (excluding packing)	63.06 g
Customs tariff number	85364190
Country of origin	DE

# PLC-RSP- 24DC/21-21 - Relay module

2912507

<https://www.phoenixcontact.com/us/products/2912507>

## Set consists of

### PLC-BSP- 24DC/21-21 - Relay base

2912439

<https://www.phoenixcontact.com/us/products/2912439>



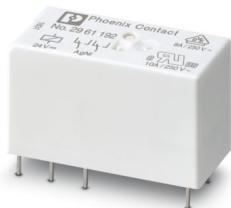
14 mm PLC basic terminal block with spring-cage connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 2 changeover contacts, input voltage 24 V DC

---

### REL-MR- 24DC/21-21 - Single relay

2961192

<https://www.phoenixcontact.com/us/products/2961192>



Plug-in miniature power relay, with power contact, 2 changeover contacts, input voltage 24 V DC

# PLC-RSP- 24DC/21-21 - Relay module



2912507

<https://www.phoenixcontact.com/us/products/2912507>

## Technical data

### Product properties

Product type	Relay Module
Product family	PLC-INTERFACE
Application	Universal
Operating mode	100% operating factor
Mechanical service life	3x 10 <sup>7</sup> cycles

### Insulation characteristics: Standards/regulations

Insulation	Safe isolation: Control side / contact side
Overvoltage category	III
Pollution degree	2

### Data management status

Date of last data management	12.09.2025
------------------------------	------------

### Electrical properties

Maximum power dissipation for nominal condition	0.43 W
---	--------

### Standards/regulations

Rated surge voltage	6 kV
---------------------	------

### Input data

#### Coil side

Nominal input voltage U <sub>N</sub>	24 V DC
Input voltage range	20.2 V DC ... 33.6 V DC
Drive and function	monostable
Typical input current at U <sub>N</sub>	18 mA
Typical response time	8 ms
Typical release time	10 ms
Protective circuit	Reverse polarity protection; Polarity protection diode Freewheeling diode; Freewheeling diode
Operating voltage display	Yellow LED

### Output data

#### Switching

Contact switching type	2 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC (The separating plate PLC-ATP should be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal blocks in adjacent modules. Potential bridging is then carried out with FBST 8-PLC... or ...FBST 500...)
Minimum switching voltage	5 V AC/DC (at 10 mA)

# PLC-RSP- 24DC/21-21 - Relay module



2912507

<https://www.phoenixcontact.com/us/products/2912507>

Limiting continuous current	6 A
Maximum inrush current	15 A (300 ms)
Min. switching current	10 mA (At 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)
	3 A (at 24 V, AC15)
	3 A (at 120 V, AC15)
	0.2 A (at 250 V, DC13)
	3 A (at 250 V, AC15)

## Connection data

### Coil side

Connection method	Spring-cage connection
Stripping length	8 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>
Conductor cross-section AWG	26 ... 14

### Contact side

Connection method	Spring-cage connection
Stripping length	8 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>
Conductor cross-section AWG	26 ... 14

## Dimensions

Width	14 mm
Height	80 mm
Depth	94 mm

## Material specifications

Color	green (RAL 6021)
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 ... 60 °C

# PLC-RSP- 24DC/21-21 - Relay module



2912507

<https://www.phoenixcontact.com/us/products/2912507>

Ambient temperature (storage/transport)	-40 °C ... 85 °C
---	------------------

## Standards and regulations

### Standards/regulations

Standards/regulations	IEC 60664
	IEC 60947-5-1

## Mounting

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

Drawings

Diagram

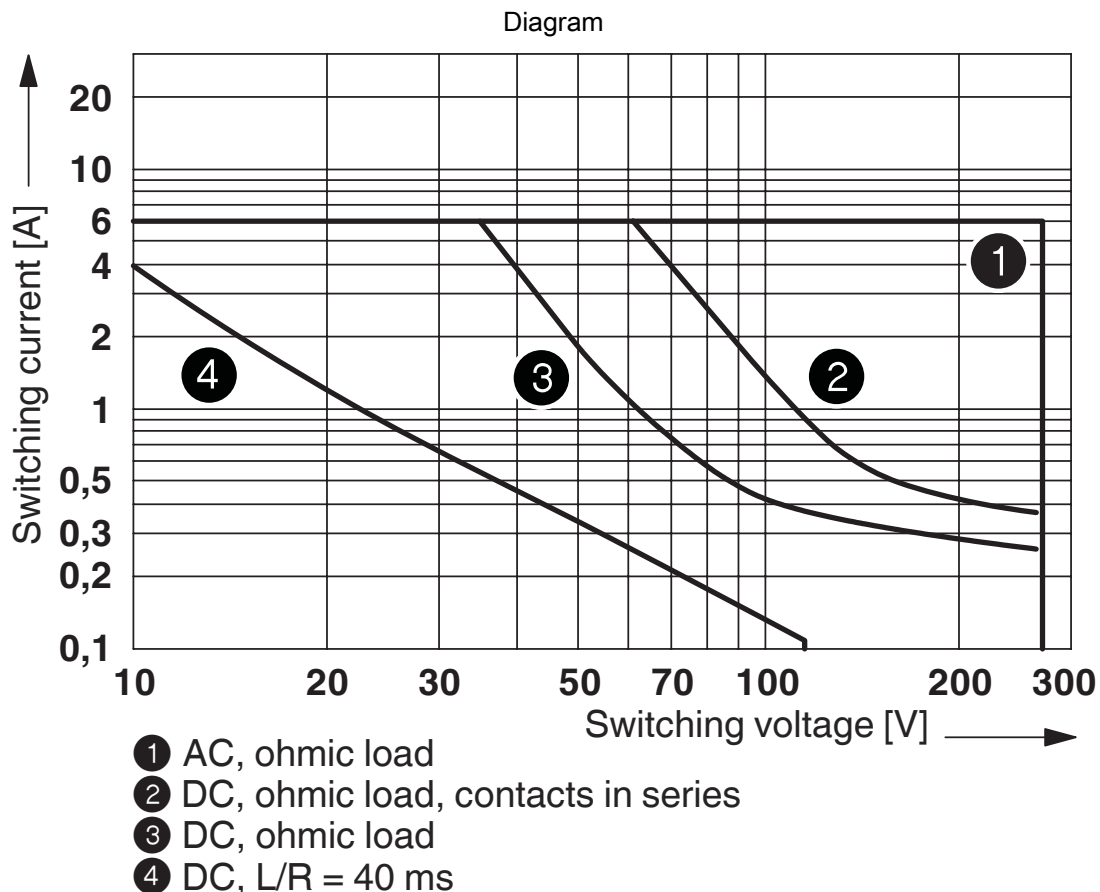


Curve A

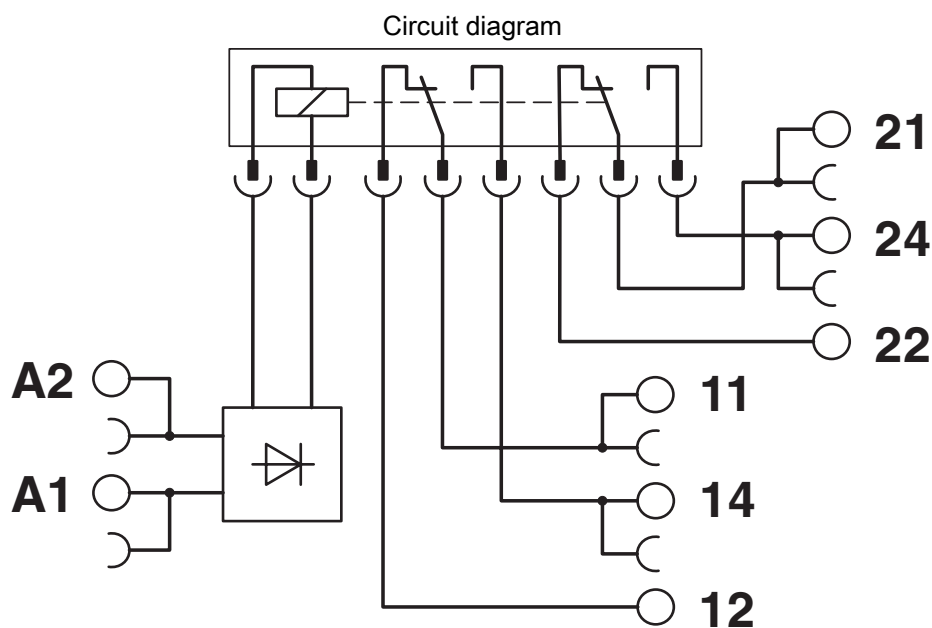
Maximum permissible continuous voltage  $U_{\text{max}}$  with limiting continuous current on the contact side (see relevant technical data)

Curve B

Minimum permissible operate voltage  $U_{\text{op}}$  after pre-excitation (see relevant technical data)



Interrupting rating



# PLC-RSP- 24DC/21-21 - Relay module



2912507

<https://www.phoenixcontact.com/us/products/2912507>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### 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)
-------------------------------------	----------------------

Phoenix Contact 2026 © - 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)