

# PLC-RSP-120UC/21AU - Relay module



2966582

<https://www.phoenixcontact.com/us/products/2966582>

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PLC-INTERFACE, consisting of PLC-BSP.../21 basic terminal block with spring-cage connection and plug-in miniature relay with multi-layer gold contact, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 120 V AC/110 V DC

## Your advantages

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

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2966582                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C461                           |
| Product key                          | DK622B                         |
| GTIN                                 | 4017918164829                  |
| Weight per piece (including packing) | 32.51 g                        |
| Weight per piece (excluding packing) | 30.67 g                        |
| Customs tariff number                | 85364900                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

|                         |                           |
|-------------------------|---------------------------|
| Product type            | Relay Module              |
| Product family          | PLC-INTERFACE             |
| Application             | Universal                 |
| Operating mode          | 100% operating factor     |
| Mechanical service life | 2x 10 <sup>7</sup> cycles |

### Insulation characteristics: Standards/regulations

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Pollution degree     | 3   |

### Data management status

|                              |            |
|------------------------------|------------|
| Date of last data management | 01.04.2026 |
|------------------------------|------------|

### Electrical properties

|   |  |
|---|--|
| Maximum power dissipation for nominal condition | 0.42 W                                   |
| Test voltage (Winding/contact)                  | 4 kV AC (50 Hz, 1 min., winding/contact) |

### Input data

#### Coil side

|                                |                                    |
|--------------------------------|------------------------------------|
| Nominal input voltage $U_N$    | 120 V AC                           |
|                                | 110 V DC                           |
| Input voltage range            | 93.6 V AC/DC ... 168 V AC/DC       |
| Drive and function             | monostable                         |
| Typical input current at $U_N$ | 3.5 mA (at $U_N = 120$ V AC)       |
|                                | 3 mA (at $U_N = 110$ V DC)         |
| Typical response time          | 6 ms                               |
| Typical release time           | 15 ms                              |
| Protective circuit             | Bridge rectifier; Bridge rectifier |
| Operating voltage display      | Yellow LED                         |

### Output data

#### Switching

|                             |                         |
|-----------------------------|-------------------------|
| Contact switching type      | 1 changeover contact    |
| Type of switch contact      | Single contact          |
| Contact material            | AgSnO, hard gold-plated |
| Maximum switching voltage   | 30 V AC                 |
|                             | 36 V DC                 |
| Minimum switching voltage   | 100 mV (at 10 mA)       |
| Limiting continuous current | 50 mA                   |
| Maximum inrush current      | 50 mA                   |

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|                                       |                    |
|---------------------------------------|--------------------|
| Min. switching current                | 1 mA (at 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  |
| Minimum switching voltage             | 5 V (at 100 mA)  |
| Limiting continuous current           | 6 A  |
| Min. switching current                | 10 mA (at 12 V)  |
| Interrupting rating (ohmic load) max. | 140 W (at 24 V DC)<br>20 W (at 48 V DC)<br>18 W (at 60 V DC)<br>23 W (at 110 V DC)<br>40 W (at 220 V DC)<br>1500 VA (for 250 V AC)             |
| Switching capacity                    | 2 A (at 24 V, DC13)<br>0.2 A (at 110 V, DC13)<br>0.1 A (at 220 V, DC13)<br>3 A (at 24 V, AC15)<br>3 A (at 120 V, AC15)<br>3 A (at 230 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  | 6.2 mm |
| Height | 80 mm  |
| Depth  | 94 mm  |

## Material specifications

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|  |                  |
|--|------------------|
| Color  | green (RAL 6021) |
| Flammability rating according to UL 94 (Housing) | V0 (Housing)     |

## Environmental and real-life conditions

### Ambient conditions

|   |                   |
|---|-------------------|
| Degree of protection (Relay base)       | IP20 (Relay base) |
| Ambient temperature (operation)         | -40 °C ... 55 °C  |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C  |

## Standards and regulations

### Standards/regulations

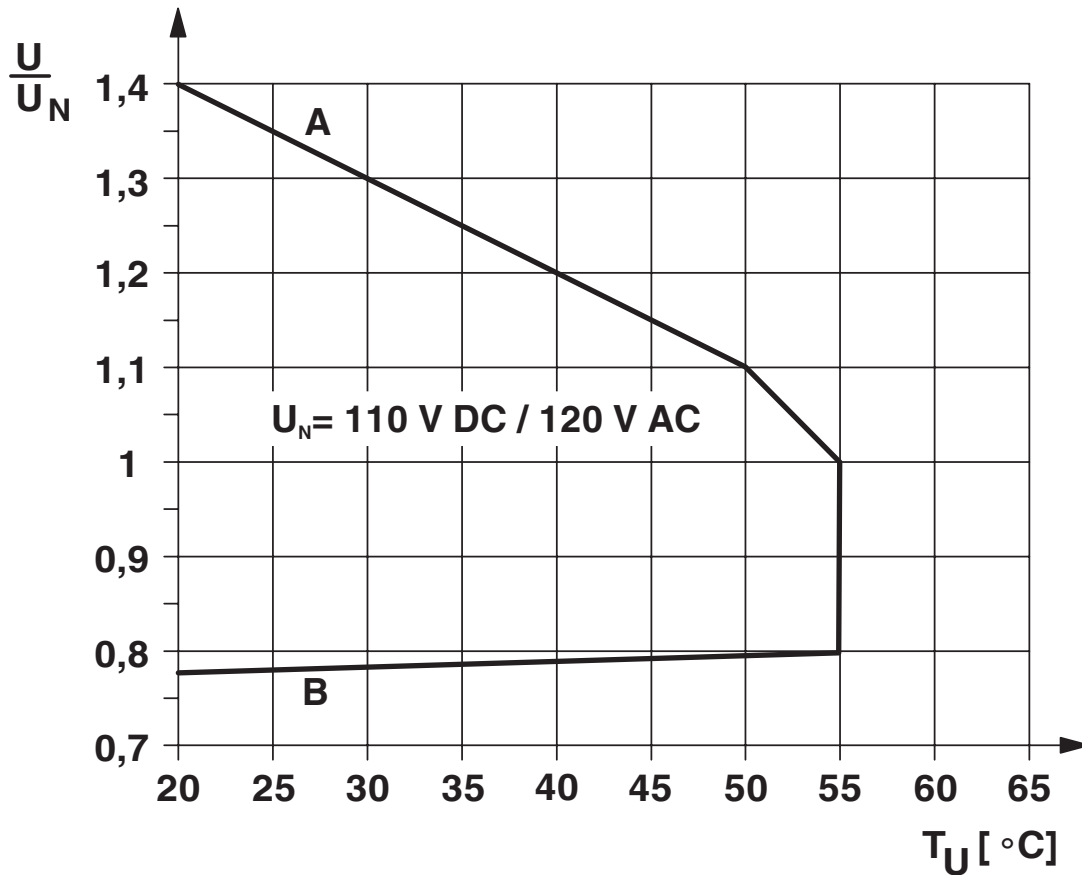
|                       |               |
|-----------------------|---------------|
| Standards/regulations | IEC 60664     |
|                       | IEC 60947-5-1 |

## 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)

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## 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.) | Hexahydromethylphthalic anhydride(CAS: n/a)                    |
|                                     | Lead(CAS: 7439-92-1)   |
|                                     | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7) |

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