

# PLC-RSC- 12DC/21-21/C1D2 - Relay module



2900191

<https://www.phoenixcontact.com/us/products/2900191>

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PLC-INTERFACE, consisting of DIN rail-mountable basic terminal block with screw connection and plug-in miniature relay with power contact, 2 changeover contacts, input voltage: 12 V DC, UL/cUL: approved for use in Ex zone Class I, Div. 2

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2900191                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C461                           |
| Product key                          | DK6212                         |
| GTIN                                 | 4046356506144                  |
| Weight per piece (including packing) | 76.2 g                         |
| Weight per piece (excluding packing) | 69.52 g                        |
| Customs tariff number                | 85364190                       |
| Country of origin                    | DE                             |

## Technical data

### Product properties

|                         |                           |
|-------------------------|---------------------------|
| Product type            | Relay Module              |
| Application             | Class I, Division 2       |
| Operating mode          | 100% operating factor     |
| Mechanical service life | 3x 10 <sup>7</sup> cycles |

### Insulation characteristics: Standards/regulations

|                      |                                |
|----------------------|--------------------------------|
| Insulation           | Safe isolation of input/output |
| Overvoltage category | III                            |
| Pollution degree     | 3                              |

### Data management status

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

### Electrical properties

|   |       |
|---|-------|
| Maximum power dissipation for nominal condition | 0.4 W |
|---|-------|

### Standards/regulations

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

### Input data

#### Coil side

|   |  |
|---|--|
| Nominal input voltage U <sub>N</sub>    | 12 V DC  |
| Input voltage range                     | 10.3 V DC ... 16.8 V DC  |
| Drive and function                      | monostable   |
| Typical input current at U <sub>N</sub> | 33 mA  |
| Typical response time                   | 8 ms   |
| Typical release time                    | 10 ms  |
| Protective circuit                      | Reverse polarity protection; Polarity protection diode<br>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)  |
| Limiting continuous current | 6 A   |

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|                                       |                        |
|---------------------------------------|------------------------|
| 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)    |
|                                       | 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                | Screw connection  |
| Stripping length                 | 8 mm  |
| Screw thread                     | M3  |
| 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> ... 1.5 mm <sup>2</sup> (TWIN ferrule) |
| Conductor cross-section AWG      | 26 ... 14   |
| Tightening torque                | 0.6 Nm ... 0.8 Nm   |

## Dimensions

|        |       |
|--------|-------|
| Width  | 14 mm |
| Height | 80 mm |
| Depth  | 94 mm |

## Material specifications

|  |              |
|--|--------------|
| 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)         | -20 °C ... 60 °C (UL) |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C      |

## Standards and regulations

### Standards/regulations

|                       |           |
|-----------------------|-----------|
| Standards/regulations | IEC 60664 |
|                       | EN 50178  |

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## Mounting

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

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## Environmental product compliance

### 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.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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