

## Relay Module - PLC-RSC-12DC/21-C1D2 - 5606331

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PLC relay, consisting of base terminal block PLC-BSC.../21 with screw connection and pluggable miniature relay with power contact, for assembly on DIN rail NS 35/7.5, 1 PDT, input voltage 12 V DC. These relays are UL/cUL listed for use in Class I, Zone 2 AEx/Ex and Class I, Division 2 (CID2) hazardous locations.



### Key commercial data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| Weight per Piece (excluding packing) | 34.1 GRM |
| Custom tariff number                 | 85364190 |
| Country of origin                    | Germany  |

### Technical data

#### Note

|                         |   |
|-------------------------|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|

#### Dimensions

|        |        |
|--------|--------|
| Width  | 6.2 mm |
| Height | 80 mm  |
| Depth  | 94 mm  |

#### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)         | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

#### Coil side

|                                |         |
|--------------------------------|---------|
| Nominal input voltage $U_N$    | 12 V DC |
| Typical input current at $U_N$ | 15.3 mA |
| Typical response time          | 5 ms    |

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## Technical data

### Coil side

|                           |  |
|---------------------------|--|
| Typical release time      | 8 ms   |
| Operating voltage display | Yellow LED   |
| Protective circuit        | Protection against polarity reversal Polarity protection diode |
|                           | Protection against polarity reversal Polarity protection diode |

### Contact side

|                                       |   |
|---------------------------------------|---|
| Contact type                          | 1 PDT   |
| Contact material                      | AgSnO   |
| 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             | 12 V AC/DC  |
| Min. switching current                | 10 mA   |
| Limiting continuous current           | 6 A   |
| Interrupting rating (ohmic load) max. | 140 W (at 24 V DC)  |
|                                       | 20 W (at 48 V DC)   |
|                                       | 18 W (at 60 V DC)   |
|                                       | 23 W (at 110 V DC)  |
|                                       | 40 W (at 220 V DC)  |
|                                       | 1500 VA (for 250 V AC)  |

### General

|  |   |
|--|---|
| Note                                     | Separating plate PLC-ATP must 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.... |
| Test voltage relay winding/relay contact | 4 kV AC (50 Hz, 1 min.)   |
| Operating mode                           | 100% operating factor   |
| Mechanical service life                  | $2 \times 10^7$ cycles  |
| Inflammability class according to UL 94  | V0  |
| Pollution degree                         | 3   |
| Surge voltage category                   | III   |
| Mounting position                        | any   |
| Assembly instructions                    | In rows with zero spacing   |

### Connection data

|                                       |                      |
|---------------------------------------|----------------------|
| Connection method                     | Screw connection     |
| Stripping length                      | 8 mm                 |
| Conductor cross section stranded min. | 0.14 mm <sup>2</sup> |
| Conductor cross section stranded max. | 2.5 mm <sup>2</sup>  |

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### Technical data

#### Connection data

|  |                      |
|--|----------------------|
| Conductor cross section solid min.     | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max.     | 2.5 mm <sup>2</sup>  |
| Conductor cross section AWG/kcmil max. | 14                   |
| Conductor cross section AWG/kcmil min. | 26                   |
| Screw thread                           | M 3                  |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27371102 |
| eCl@ss 4.1 | 27371102 |
| eCl@ss 5.0 | 27371603 |
| eCl@ss 5.1 | 27371603 |
| eCl@ss 6.0 | 27371603 |
| eCl@ss 7.0 | 27371603 |
| eCl@ss 8.0 | 27371603 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001456 |
| ETIM 4.0 | EC000196 |
| ETIM 5.0 | EC000196 |

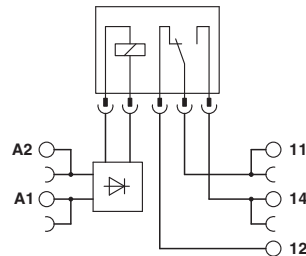
#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211917 |
| UNSPSC 7.0901 | 39121516 |
| UNSPSC 11     | 39121516 |
| UNSPSC 12.01  | 39121516 |
| UNSPSC 13.2   | 39121516 |

### Drawings

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Circuit diagram



Diagram

