

PLC-RPT- 12DC/21-21 - Relay Module



2900329

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PLC-INTERFACE, consisting of PLC-BPT.../21-21 basic terminal block with Push-in connection and plug-in miniature relay with power contact, for mounting on DIN rail NS 35/7,5, 2 changeover contacts, input voltage 12 V DC

Your advantages

- Slim design
- Efficient connection to system cabling using V8 adapter
- Safe isolation according to DIN EN 50178 between coil and contact
- RT III sealed relay
- Functional plug-in bridges
- Integrated input circuit and interference suppression circuit

Commercial Data

| | |
|--------------------------------------|---------------------|
| Item number | 2900329 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales Key | CK6 |
| Product Key | CK623C |
| Catalog Page | Page 366 (C-5-2019) |
| GTIN | 4046356507196 |
| Weight per Piece (including packing) | 71 g |
| Weight per Piece (excluding packing) | 62.99 g |
| Customs tariff number | 85364900 |
| Country of origin | DE |

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Set consists of

PLC-BPT- 12DC/21-21 - Relay base

2900282

<https://www.phoenixcontact.com/in/products/2900282>



14 mm PLC basic terminal block with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 2 changeover contacts, input voltage 12 V DC

REL-MR- 12DC/21-21 - Single relay

2961257

<https://www.phoenixcontact.com/in/products/2961257>



Plug-in miniature power relay, with power contact, 2 changeover contacts, input voltage 12 V DC

Technical Data

Product properties

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

Insulation characteristics

| | |
|------------|--------------------------------|
| Insulation | Safe isolation of input/output |
|------------|--------------------------------|

Insulation characteristics

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

Electrical properties

| | |
|---|-------|
| Maximum power dissipation for nominal condition | 0.4 W |
| Rated surge voltage | 6 kV |

Input data

Coil side

| | |
|---|--|
| Nominal input voltage U _N | 12 V DC |
| Input voltage range | 10.3 V DC ... 16.8 V DC (20 °C) |
| Drive and function | monostable |
| Drive (polarity) | polarized |
| Typical input current at U _N | 33 mA |
| Typical response time | 8 ms |
| Typical release time | 10 ms |
| Protective circuit | Reverse polarity protection; Polarity protection diode Surge protection; Freewheeling diode |
| Operating voltage display | Yellow LED |

Output data

Switching

| | |
|---------------------------|---|
| Contact 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 (10 mA) |

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| | |
|---------------------------------------|------------------------|
| Limiting continuous current | 6 A |
| Maximum inrush current | 15 A (300 ms) |
| Min. switching current | 10 mA (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

| | |
|----------------------------------|--|
| Connection method | Push-in connection |
| Stripping length | 10 mm |
| Conductor cross section rigid | 0.14 mm ² ... 2.5 mm ² |
| Conductor cross section flexible | 0.14 mm ² ... 2.5 mm ² |
| | 0.2 mm ² ... 2.5 mm ² (Single ferrule) |
| | 2x 0.5 mm ² ... 1 mm ² (TWIN ferrule) |
| Conductor cross section AWG | 26 ... 14 |

Dimensions

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

Material specifications

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

Approvals

Corrosive gas test

| | |
|----------------|----------------------------|
| Identification | ISA-S71.04. G3 Harsh Group |
| | EN 60068-2-60 |

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Standards and regulations

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

Mounting

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

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