

PLC-RSP- 24DC/ 1IC/ACT - Relay module



2912413

<https://www.phoenixcontact.com/us/products/2912413>

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PLC-INTERFACE for high switch-on currents, consisting of PLC-BSP.../1 IC/ACT basic terminal block with spring-cage connection and plug-in miniature relay, for mounting on DIN rail NS 35/7,5, max. switch-on current up to 130 A, 1 N/O contact, input voltage 24 V DC

Your advantages

- Direct connection of load return line thanks to actuator version
- Efficient connection to system cabling using V8 adapter
- Safe isolation between coil and contact side
- Max. inrush current of 130 A
- Functional plug-in bridges

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2912413 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C461 |
| Product key | DK622A |
| GTIN | 4046356050821 |
| Weight per piece (including packing) | 62.94 g |
| Weight per piece (excluding packing) | 61.16 g |
| Customs tariff number | 85364190 |
| Country of origin | DE |

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Set consists of

PLC-BSP- 24DC/ 1IC/ACT - Relay base

2912400

<https://www.phoenixcontact.com/us/products/2912400>



14 mm PLC basic terminal block for high switch-on currents with spring-cage connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with load return line connection (BB), 1 N/O contact, input voltage 24 V DC

REL-MR- 24DC/1IC - Single relay

2961341

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Pluggable miniature power relay, with power contact for high switch-on currents up to 130 A peaks, 1 N/O contact, input voltage: 24 V DC

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Technical data

Product properties

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

Insulation characteristics: Standards/regulations

| | |
|----------------------|---------------------------------------|
| Insulation | Safe isolation, reinforced insulation |
| Overvoltage category | III |
| Pollution degree | 2 |

Data management status

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

Electrical properties

| | |
|---|--|
| Maximum power dissipation for nominal condition | 0.43 W |
| Test voltage (Winding/contact) | 4 kV AC (50 Hz, 1 min., winding/contact) |

Standards/regulations

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

Input data

Coil side

| | |
|---|--|
| Nominal input voltage U _N | 24 V DC |
| Input voltage range | 20.2 V DC ... 33.6 V DC |
| Drive and function | monostable |
| Typical input current at U _N | 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 | 1 N/O contact |
| Type of switch contact | Single contact |
| 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...) |

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| | |
|---|---|
| Minimum switching voltage | 12 V AC/DC (at 100 mA) |
| Limiting continuous current | 6 A |
| | 10 A (the value is permissible if both connections 13, both connections 14 and both connections BB are bridged) |
| Maximum inrush current | 80 A (for 20 ms) |
| | 130 A (peak, at capacitive load, 230 V AC, 24 µF) |
| Min. switching current | 100 mA (at 12 V DC) |
| Interrupting rating (ohmic load) max. | 144 W (at 24 V DC) |
| | 58 W (at 48 V DC) |
| | 48 W (at 60 V DC) |
| | 50 W (at 110 V DC) |
| | 80 W |
| | 85 W (for 250 V DC) |
| Interrupting rating (ohmic load) max. bridged | 1500 VA (for 250 V AC) |
| | 240 W (for 24 V DC. The value is permissible if both connections 13, both connections 14 and both connections BB are bridged.) |
| Switching capacity | 2500 VA (for 250 V AC. The value is permissible if both connections 13, both connections 14 and both connections BB are bridged.) |
| | 2 A (at 24 V, DC13) |
| Switching capacity | 0.2 A (at 110 V, DC13) |
| | 0.2 A (at 250 V, DC13) |
| | 6 A (at 24 V, AC15) |
| | 6 A (at 120 V, AC15) |
| | 6 A (at 250 V, AC15) |
| | 6 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 ² ... 2.5 mm ² |
| Conductor cross-section flexible | 0.14 mm ² ... 2.5 mm ² |
| Conductor cross-section AWG | 26 ... 14 |

Contact side

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

Dimensions

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

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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 II (Relay) |
| Degree of protection (Relay base) | IP20 (Relay base) |
| Ambient temperature (operation) | -40 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

Standards and regulations

Standards/regulations

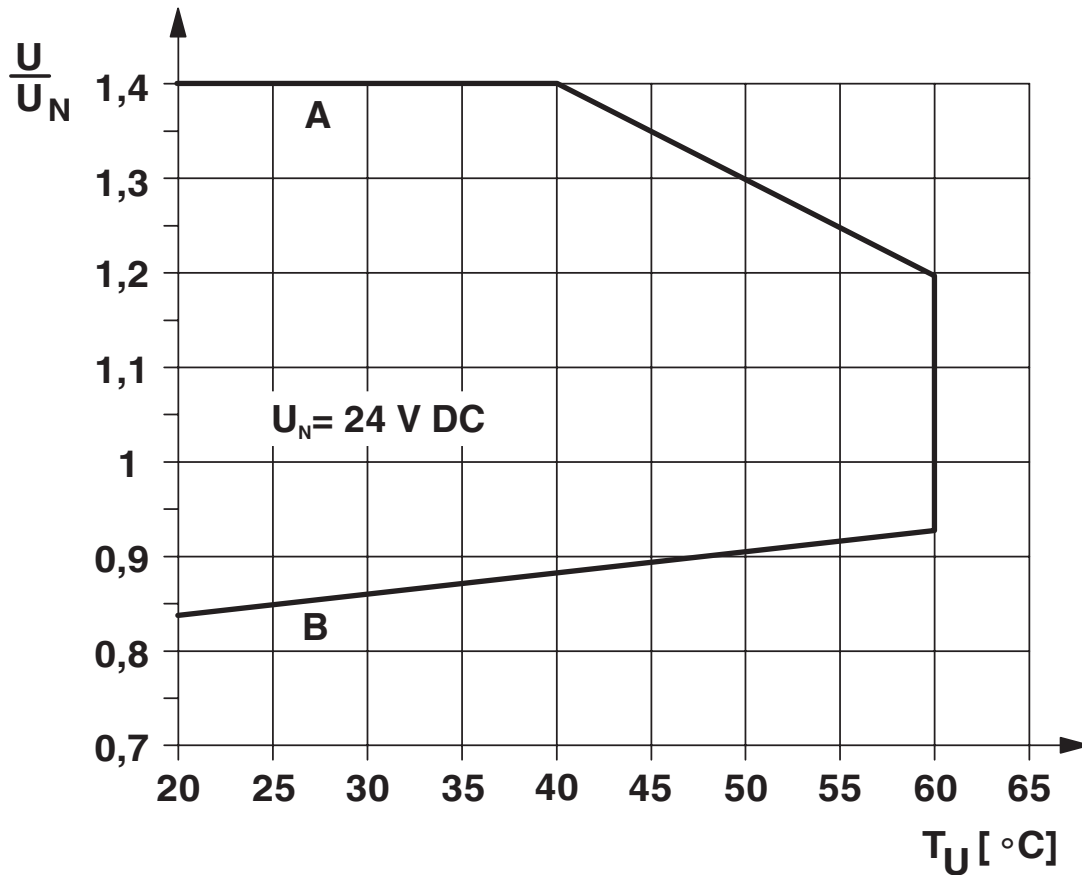
| | |
|-----------------------|-----------|
| Standards/regulations | IEC 60664 |
| | EN 50178 |

Mounting

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

Drawings

Diagram



Curve A

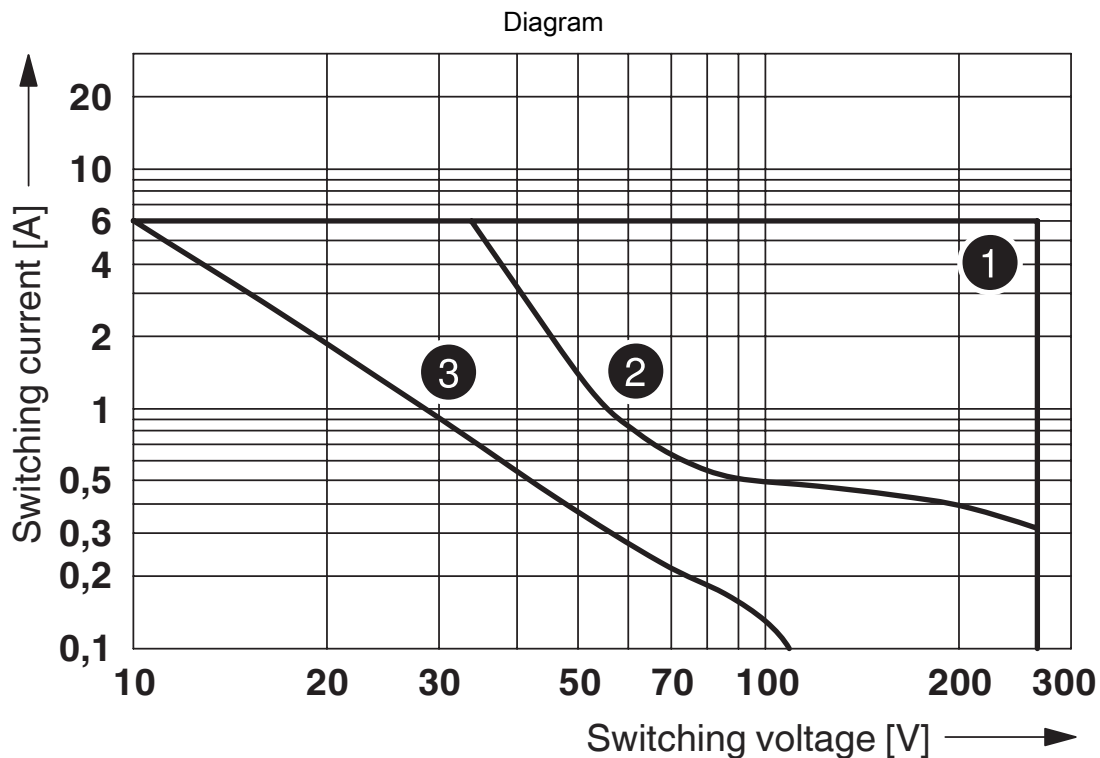
Maximum permissible continuous voltage U_{max} with limiting continuous current on the contact side (see relevant technical data)

Curve B

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

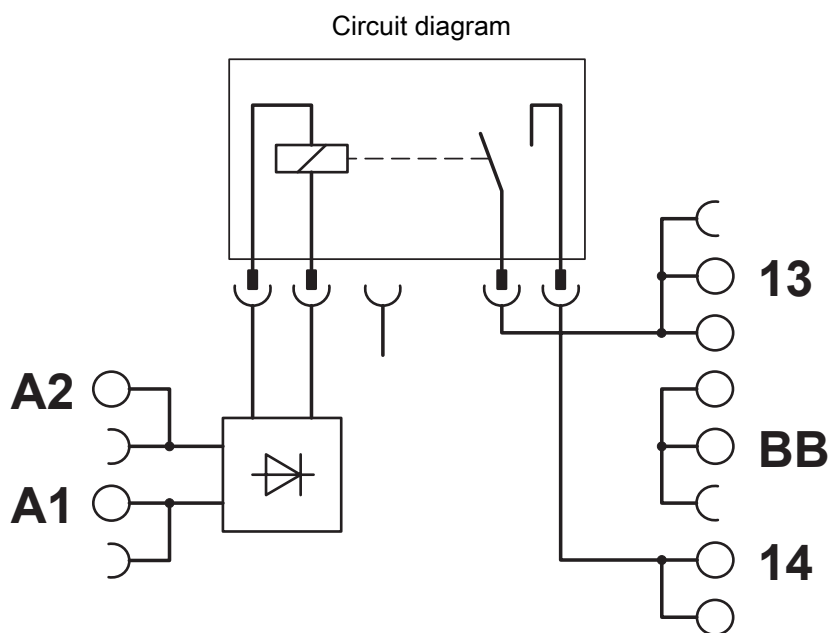
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- ① AC, ohmic load
- ② DC, ohmic load
- ③ DC, L/R = 40 ms

Interrupting rating



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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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