

PLC-RSC- 24DC/ 1IC/ACT - Relay Module



2967604

<https://www.phoenixcontact.com/us/products/2967604>

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PLC-INTERFACE for high switch-on currents, consisting of PLC-BSC.../1 IC/ACT basic terminal block with screw 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 | 2967604 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | C461 |
| Product key | CK621A |
| Catalog page | Page 382 (C-5-2019) |
| GTIN | 4017918169794 |
| Weight per piece (including packing) | 76.19 g |
| Weight per piece (excluding packing) | 67.98 g |
| Customs tariff number | 85364900 |
| Country of origin | DE |

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Technical data

Notes

| | |
|---------|---|
| General | 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.... |
| General | The PLC-ATP separating plate should be installed for safe isolation between adjacent modules |
| General | The PLC-ATP separating plate is required at the start and end of every PLC terminal strip. |
| General | The system installer must ensure the touch protection of the product (at voltages > 25 V AC/60 V DC). The product is a built-in device without protection against direct contact. |

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

| | |
|------------|---------------------------------------|
| Insulation | Safe isolation, reinforced insulation |
|------------|---------------------------------------|

Insulation characteristics: Standards/regulations

| | |
|----------------------|---------------------------------------|
| Insulation | Safe isolation, reinforced insulation |
| Overvoltage category | III |
| Pollution degree | 3 |

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 insulation voltage | 250 V AC |
| 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 (20 °C) |
| Drive and function | monostable |
| Drive (polarity) | polarized |
| Typical input current at U _N | 18 mA |
| Typical response time | 8 ms |

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| | |
|---------------------------|--|
| Typical release time | 10 ms |
| Coil voltage | 24 V DC |
| 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...) |
| Minimum switching voltage | 12 V (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 (20 ms) 130 A (peak, at capacitive load, 230 V AC, 24 µF) |
| Min. switching current | 100 mA (12 V) |
| 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 (at 220 V DC) 85 W (for 250 V DC) 1500 VA (for 250 V AC) |
| Interrupting rating (ohmic load) max. bridged | 240 W (for 24 V DC. The value is permissible if both connections 13, both connections 14 and both connections BB are bridged.) 2500 VA (for 250 V AC. The value is permissible if both connections 13, both connections 14 and both connections BB are bridged.) |
| Switching capacity min. | 1200 mW |
| Switching capacity | 2 A (at 24 V, DC13) 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) |

Connection data

| | |
|-------------------|------------------|
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |

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| | |
|----------------------------------|---------------------------------------|
| Conductor cross section rigid | 0.14 mm² ... 2.5 mm² |
| Conductor cross section flexible | 0.14 mm² ... 2.5 mm² |
| | 0.2 mm² ... 2.5 mm² (Single ferrule) |
| | 2x 0.5 mm² ... 1.5 mm² (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

| | |
|--|-----------------|
| Color | gray (RAL 7042) |
| Flammability rating according to UL 94 | V0 (Housing) |

Environmental and real-life conditions

Ambient conditions

| | |
|--|--------------------------------|
| Degree of protection (Relay) | RT II (Relay) |
| Degree of protection (Relay base) | IP20 (Relay base) |
| Degree of protection (Installation location) | ≥ IP54 (Installation location) |
| Ambient temperature (operation) | -40 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Altitude | ≤ 2000 m |

Approvals

CE

| | |
|-------------|--------------|
| Certificate | CE-compliant |
|-------------|--------------|

UKCA

| | |
|-------------|----------------|
| Certificate | UKCA-compliant |
|-------------|----------------|

Shipbuilding approval

| | |
|-------------|------------|
| Certificate | TAE0000196 |
|-------------|------------|

Corrosive gas test

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

DNV GL data

| | |
|-------------|---|
| Temperature | D |
| Humidity | A |
| Vibration | B/C |
| EMC | B |
| Enclosure | Required protection according to the Rules shall be provided upon installation on board |

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EMC data

| | |
|-------------------------------|--|
| Low Voltage Directive | Conformance with Low Voltage Directive |
| Electromagnetic compatibility | Conformance with EMC directive |

Standards and regulations

| | |
|-----------------------|---------------|
| Standards/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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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27371601 |
| ECLASS-12.0 | 27371601 |
| ECLASS-13.0 | 27371601 |

ETIM

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|----------|----------|
| ETIM 9.0 | EC001437 |
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UNSPSC

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| UNSPSC 21.0 | 39122300 |
|-------------|----------|

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Environmental product compliance

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|------------|--|
| REACH SVHC | Lead 7439-92-1 |
| | Hexahydromethylphthalic anhydride |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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