# PLC-RSC-120UC/21/C1D2 - Relay module

5603157

https://www.phoenixcontact.com/us/products/5603157

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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, 1 changeover contact, input voltage: 120 V AC/110 V DC, UL/cUL: approved for use in Ex Zone Class I, Div. 2

## Commercial data

| | |
|---|---|
| Item number | 5603157 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C461 |
| Product key | DK6211 |
| GTIN | 4046356687362 |
| Weight per piece (including packing) | 39.9 g |
| Weight per piece (excluding packing) | 37 g |
| Customs tariff number | 85364900 |
| 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 | 2x $10^7$ cycles |

Insulation characteristics: Standards/regulations

| | |
|---|---|
| Overvoltage category | III |
| Pollution degree | 3 |

Data management status

| | |
|---|---|
| Date of last data management | 26.02.2026 |

## Electrical properties

| | |
|---|---|
| Maximum power dissipation for nominal condition | 0.42 W |
| Test voltage (Winding/contact) | 4 kV AC (50 Hz, 1 min., winding/contact) |

## Input data

Coil side

| | |
|---|---|
| Nominal input voltage $U_N$ | 120 V AC |
| | 110 V DC |
| Input voltage range | 93.6 V AC/DC ... 168 V AC/DC |
| Drive and function | monostable |
| Typical input current at $U_N$ | 3.5 mA (at $U_N$ = 120 V AC) |
| | 3 mA (at $U_N$ = 110 V DC) |
| Typical response time | 6 ms |
| Typical release time | 15 ms |
| Protective circuit | Bridge rectifier |
| Operating voltage display | Yellow LED |

## Output data

Switching

| | |
|---|---|
| Contact switching type | 1 changeover contact |
| Type of switch contact | Single contact |
| Contact material | AgSnO |
| Maximum switching voltage | 250 V AC/DC (The divider 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 |
| Limiting continuous current | 6 A |
| Maximum inrush current | 10 A (4 s) |

| | |
|---|---|
| Min. switching current | 10 mA |
| 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) |

## Connection data

| | |
|---|---|
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| 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 | 6.2 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 base) | IP20 (Relay base) |
| Ambient temperature (operation) | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

## Approvals

### CE

| | |
|---|---|
| Identification | CE-compliant |

### UL, USA

| | |
|---|---|
| Identification | Class I, Zone 2, AEx nA nC IIC T6 |

### UL, USA/Canada

| | |
|---|---|
| Identification | Class I, Div. 2, Groups A, B, C, D |

### UL, Canada

| | |
|---|---|
| Identification | Class I, Zone 2, Ex nA nC IIC Gc T6 X |

## Standards and regulations

Standards/regulations

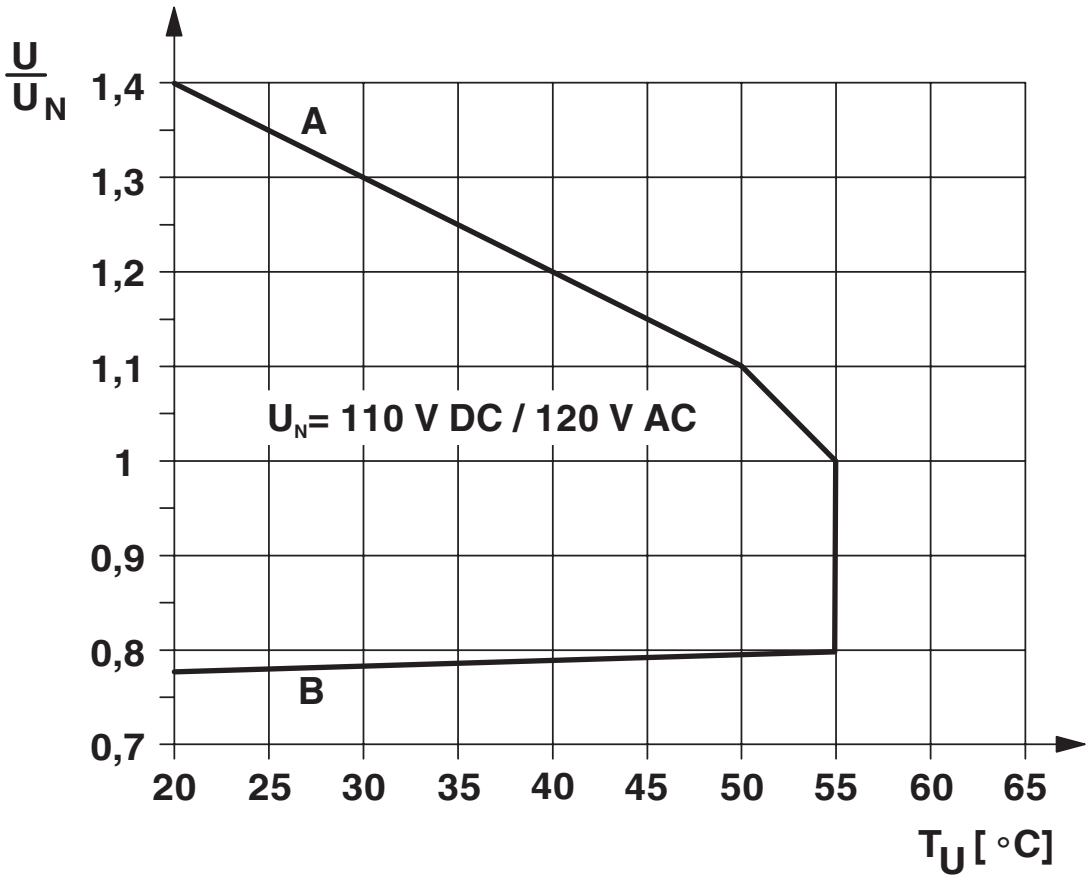
| | |
|---|---|
| Standards/regulations | IEC 60664 |
| | EN 50178 |

## Mounting

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

## Drawings

Diagram



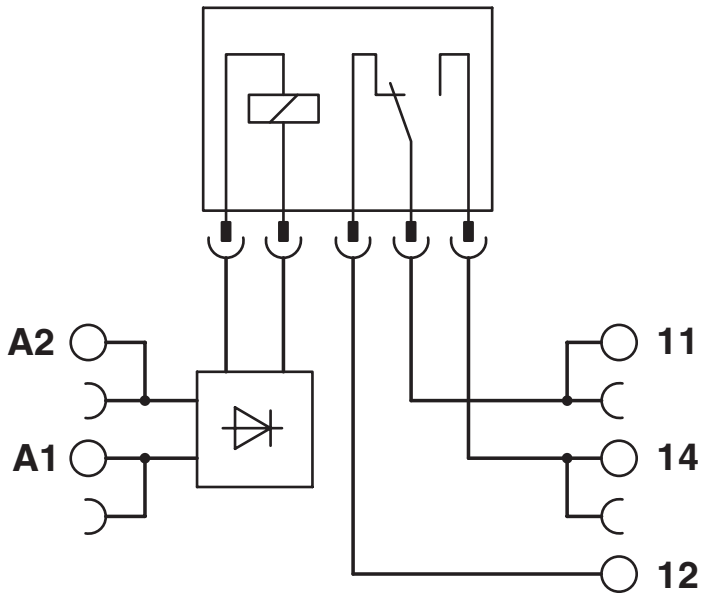

### Curve A

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)

Circuit diagram



## 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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