

PLC-RSC-120UC/21 ATEX - Relay module



2902956

<https://www.phoenixcontact.com/us/products/2902956>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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 and ATEX (Zone 2)

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2902956 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C461 |
| Product key | DK61B2 |
| GTIN | 4046356957595 |
| Weight per piece (including packing) | 42.54 g |
| Weight per piece (excluding packing) | 31.06 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 | 12.09.2025 |
|------------------------------|------------|

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 |
| Typical input current at U _N | 3.5 mA (U _N = 120 V AC) |
| | 3 mA (U _N = 110 V DC) |
| Typical response time | 6 ms |
| Typical release time | 15 ms |
| Protective circuit | Bridge rectifier; 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 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 (at 100 mA) |
| Limiting continuous current | 6 A |
| Maximum inrush current | 10 A (4 s) |
| Min. switching current | 10 mA (at 12 V) |

PLC-RSC-120UC/21 ATEX - Relay module



2902956

<https://www.phoenixcontact.com/us/products/2902956>

| | |
|---------------------------------------|------------------------|
| 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) |
| Switching capacity | 2 A (at 24 V, DC13) |
| | 0.2 A (at 110 V, DC13) |
| | 0.1 A (at 220 V, DC13) |
| | 3 A (at 24 V, AC15) |
| | 3 A (at 120 V, AC15) |
| | 3 A (at 230 V, AC15) |

Connection data

| | |
|----------------------------------|---|
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| 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 ... 1.5 mm ² (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) | RT III (Relay) |
| Degree of protection (Relay base) | IP20 (Relay base) |
| Ambient temperature (operation) (UL) | -20 °C ... 60 °C (UL) |
| Ambient temperature (operation) (ATEX) | -40 °C ... 60 °C (ATEX / IECEx) |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

Approvals

CE

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

PLC-RSC-120UC/21 ATEX - Relay module



2902956

<https://www.phoenixcontact.com/us/products/2902956>

ATEX

| | |
|----------------|----------------------------|
| Identification | ⊕ II 3G Ex ec nC IIC T4 Gc |
| Certificate | IBExU16ATEXB015 X |

IECEX

| | |
|----------------|--------------------|
| Identification | Ex ec nC IIC T4 Gc |
| Certificate | IECEX IBE 16.0029X |

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

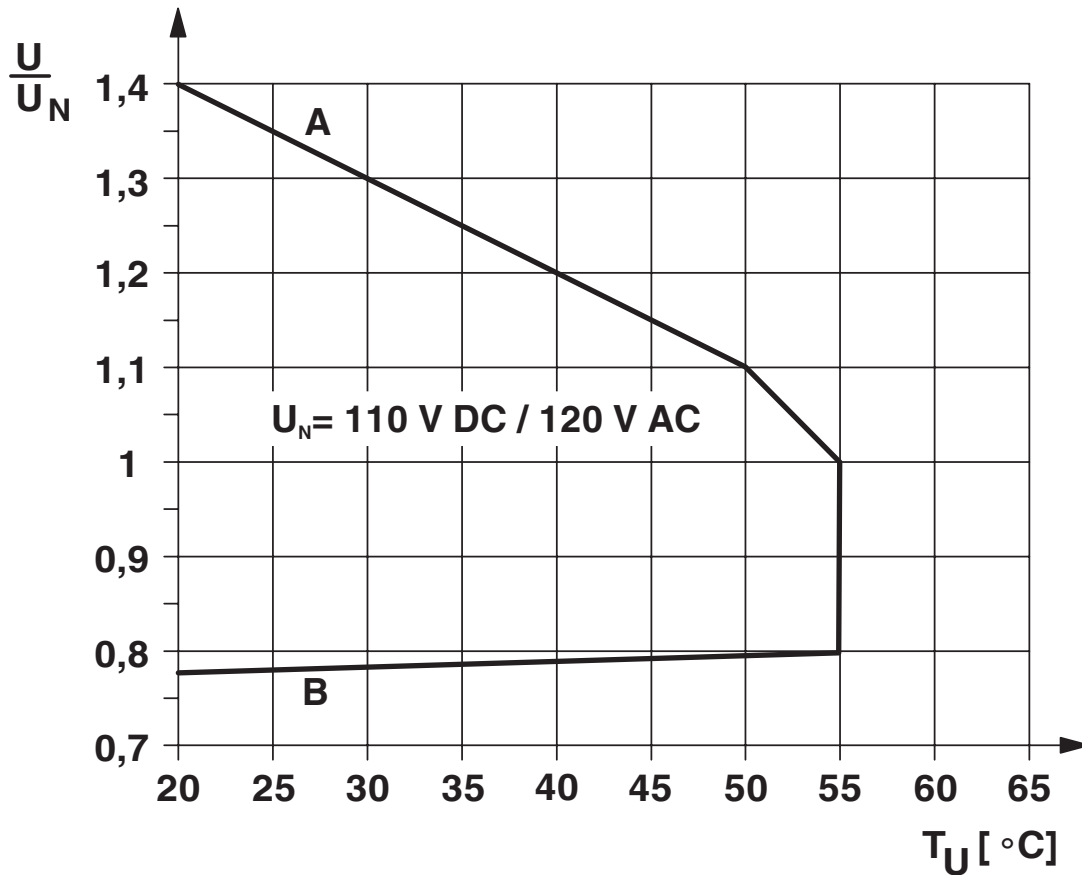
| | |
|-----------------------|---------------------|
| Standards/regulations | IEC 60664 |
| | EN 50178 |
| | EN 60079-0, -7, -15 |

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)

Diagram



Interrupting rating

Circuit diagram



PLC-RSC-120UC/21 ATEX - Relay module



2902956

<https://www.phoenixcontact.com/us/products/2902956>

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% |
|-------------------------------------|----------------------------|

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com