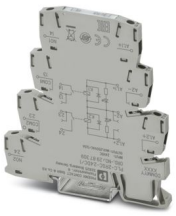
# PLC-2RSC-24DC/ 1 - Relay module

2987309

https://www.phoenixcontact.com/us/products/2987309

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 with two independent relays, consisting of PLC-BSC.../21 basic terminal block with screw connection and two integrated relays, power contact, for mounting on DIN rail NS 35/7,5, 2 x 1 N/O contact, input voltage 24 V DC

## Your advantages

- Two switching channels in one 6.2 mm housing
- 100% higher channel density than conventional 6.2 mm relays
- Integrated input circuit/protective circuit
- Safe isolation according to DIN EN 50178 between coil and contacts and between contacts
- Screw- and Push-in connection

## Commercial data

| | |
|---|---|
| Item number | 2987309 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | C461 |
| Product key | DK6228 |
| GTIN | 4046356451215 |
| Weight per piece (including packing) | 37.4 g |
| Weight per piece (excluding packing) | 34 g |
| Customs tariff number | 85364190 |
| Country of origin | DE |

# Technical data

## Product properties

| | |
|---|---|
| Product type | Relay Module |
| Product family | PLC-INTERFACE |
| Application | two integrated relays |
| Operating mode | 100% operating factor |
| Mechanical service life | 2x $10^7$ cycles |

Insulation characteristics: Air clearances and creepage distances between the power circuits

| | |
|---|---|
| Insulation | Basic insulation |
| Overvoltage category | III |
| Pollution degree | 2 |

Data management status

| | |
|---|---|
| Date of last data management | 29.10.2026 |

## Electrical properties

| | |
|---|---|
| Maximum power dissipation for nominal condition | 0.17 W |
| Test voltage (Winding/contact) | 3 kV AC (50 Hz, 1 min., winding/contact) |
| Test voltage (Contact/contact) | 3 kV AC (50 Hz, 1 min., contact/contact) |

Air clearances and creepage distances between the power circuits

| | |
|---|---|
| Rated insulation voltage | 250 V AC |
| Rated surge voltage | 4 kV |

## Input data

Coil side

| | |
|---|---|
| Nominal input voltage $U_N$ | 24 V DC |
| Input voltage range | 18 V DC ... 33.6 V DC (20 °C) |
| Drive and function | monostable |
| Drive (polarity) | polarized |
| Typical input current at $U_N$ | 7 mA |
| Typical response time | 4 ms |
| Typical release time | 6 ms |
| Protective circuit | Reverse polarity protection; Polarity protection diode |
| | Freewheeling diode; Freewheeling diode |
| Operating voltage display | Yellow LED |

## Output data

Switching

| | |
|---|---|
| Contact switching type | 2 N/O contacts |
| Type of switch contact | Single contact |
| Note regarding the switch contact | two integrated relays |

| | |
|---|---|
| Contact material | AgNi |
| Maximum switching voltage | 250 V AC |
| | 30 V DC |
| Minimum switching voltage | 24 V AC/DC |
| Limiting continuous current | 3.5 A |
| Maximum inrush current | 5 A |
| Min. switching current | 5 mA |
| Interrupting rating (ohmic load) max. | 84 W (at 24 V DC) |
| | 24 W (at 48 V DC) |
| | 24 W (at 60 V DC) |
| | 31 W (at 110 V DC) |
| | 46 W (at 220 V DC) |
| | 875 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 | 0.45 Nm ... 0.55 Nm (Usually these terminal blocks must be supported during conductor connection (held by one hand, supported on the housing)) |

## Dimensions

Item dimensions

| | |
|---|---|
| Width | 6.2 mm |
| Height | 80 mm |
| Depth | 94 mm |

## Material specifications

| | |
|---|---|
| Color | gray (RAL 7042) |
| 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) | -20 °C ... 60 °C |

## Approvals

CE

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

Corrosive gas test

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

## EMC data

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

## Standards and regulations

Air clearances and creepage distances between the power circuits

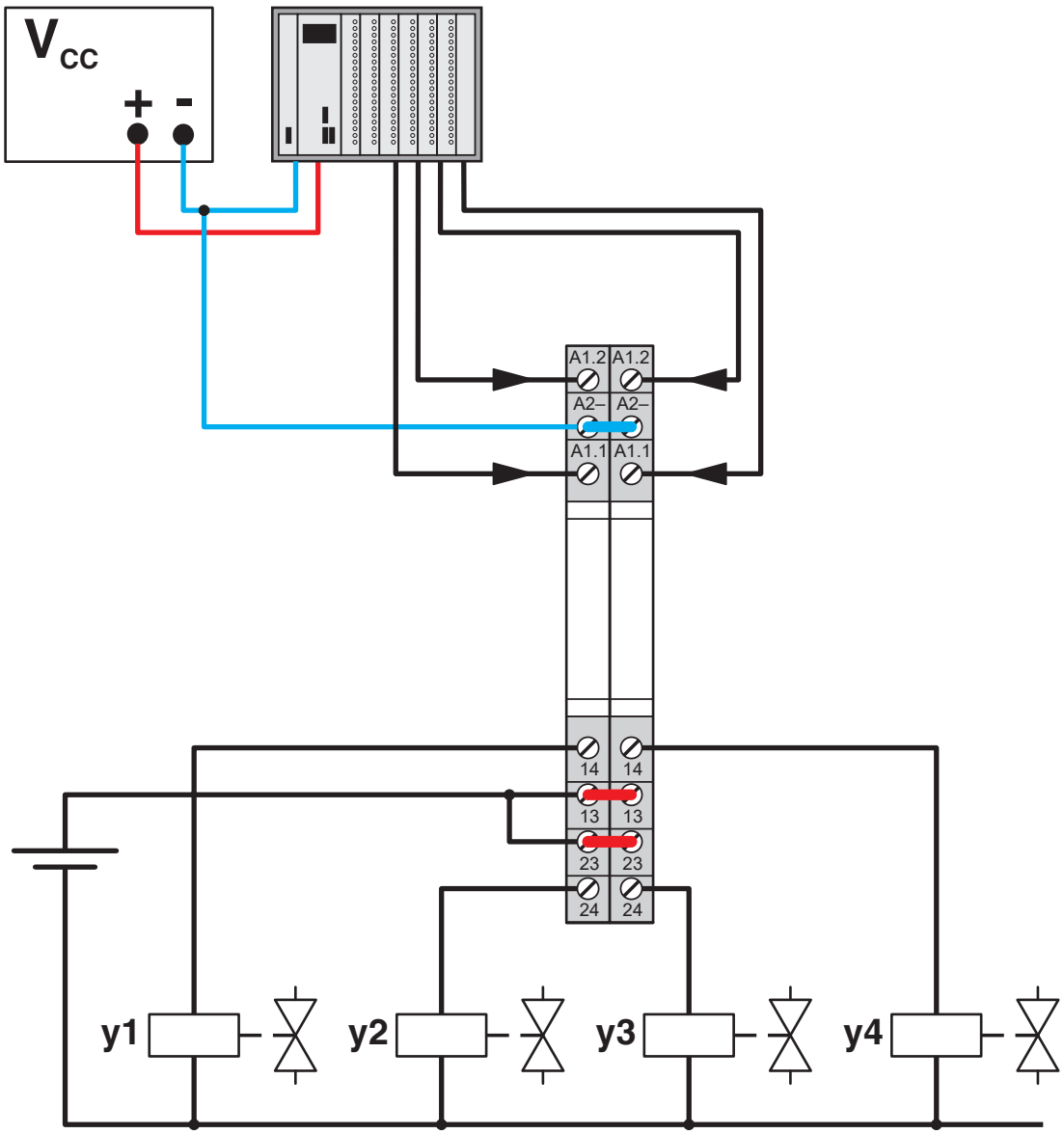
| | |
|---|---|
| Standards/regulations | IEC 60664 |
| | EN 50178 |

## Mounting

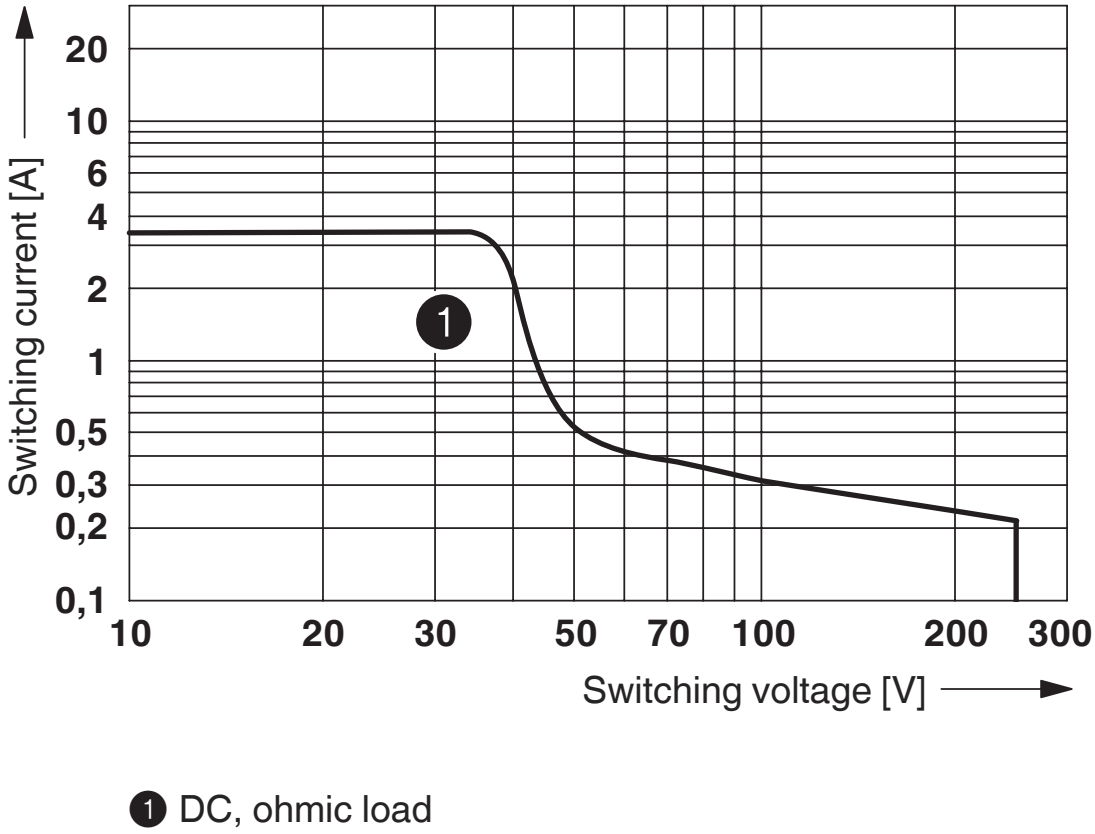
| | |
|---|---|
| Mounting type | DIN rail mounting |
| Assembly note | in rows with zero spacing |
| Mounting position | any |

## Drawings

Application drawing



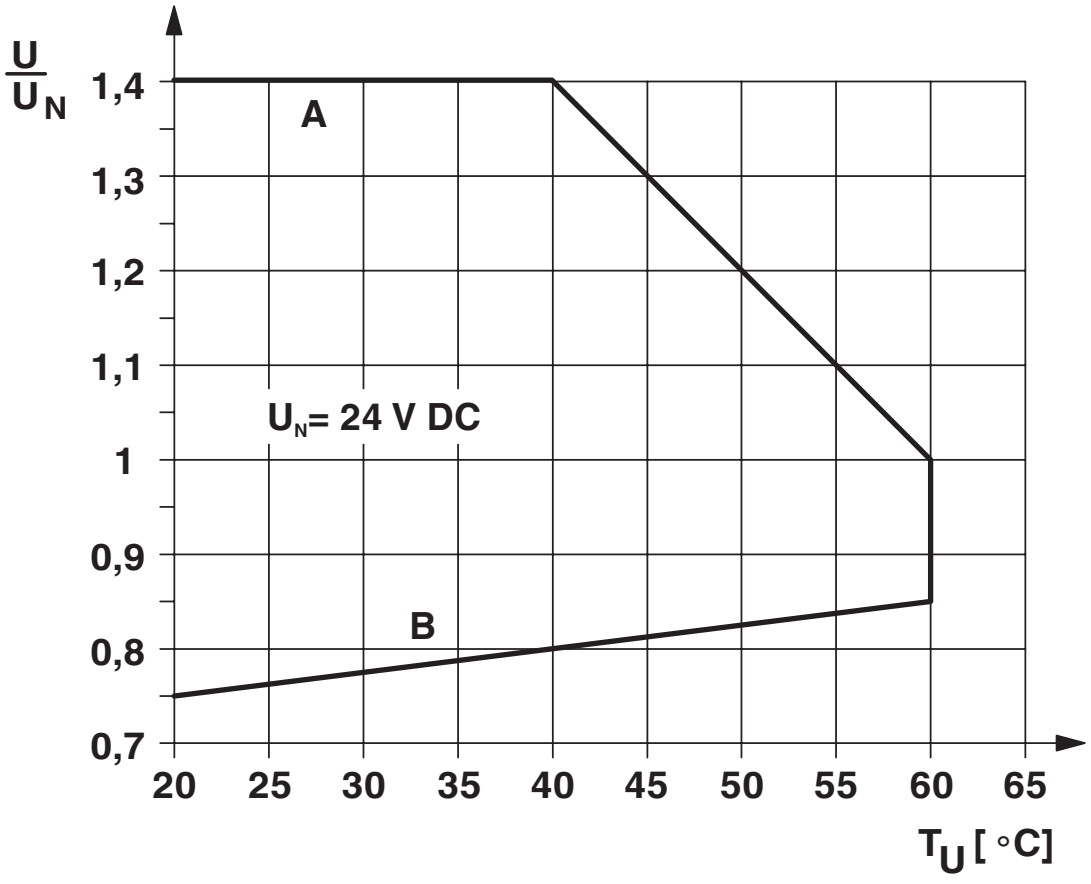
Diagram




1 DC, ohmic load

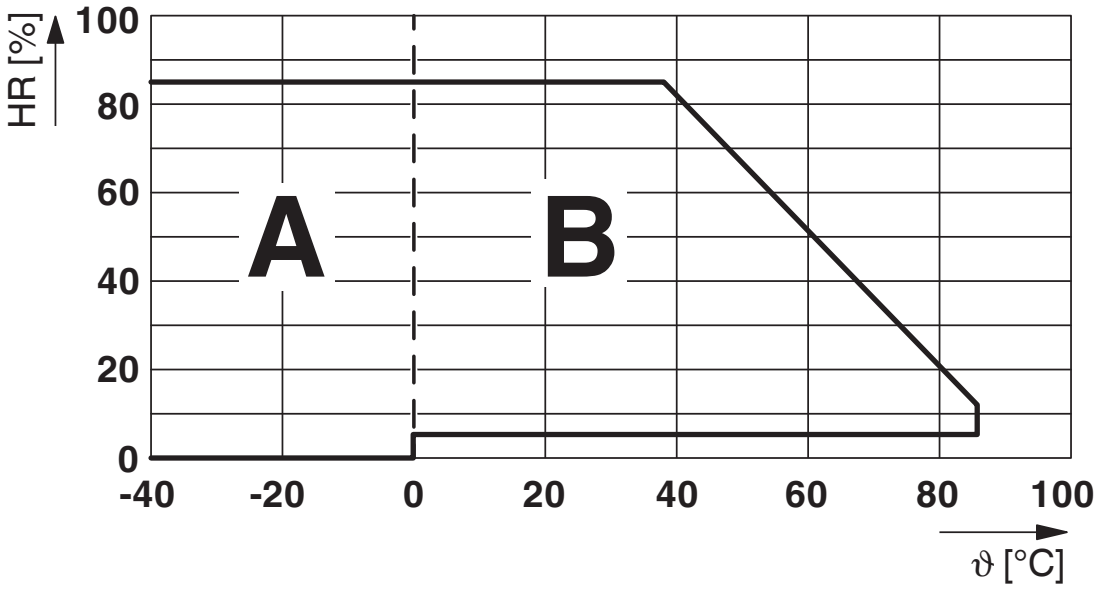
Interrupting rating

Diagram




Operating voltage range

Diagram

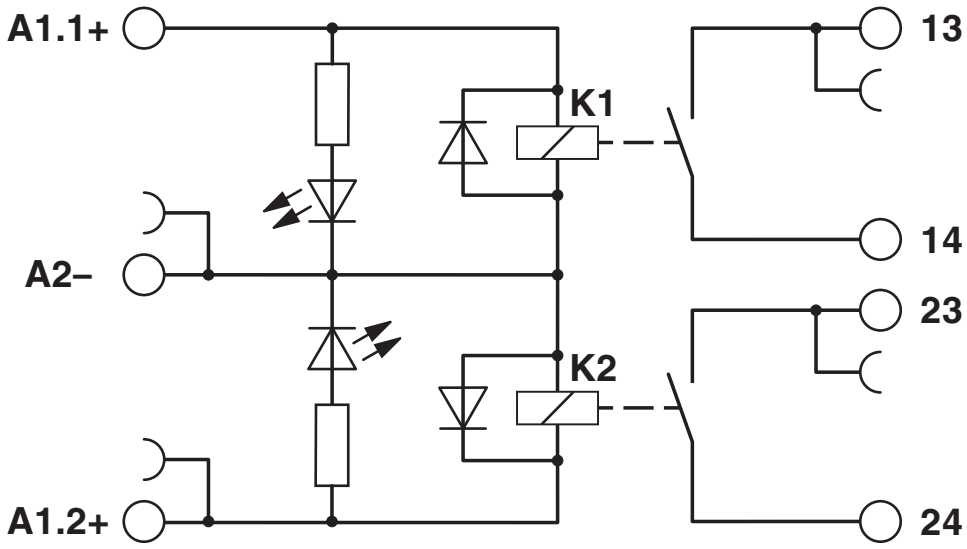



Permissible humidity for operation and storage.
The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures ≤ 0°C must be prevented
Area B: Condensation at ambient temperatures > 0°C must be prevented

On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature ≤ 25°C.

Circuit diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2987309

**cULus Listed**
Approval ID: E140324

**cULus Listed**
Approval ID: E140324

**cULus Listed**
Approval ID: E140324

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27371601 |
| ECLASS-15.0 | 27371601 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC001437 |

### UNSPSC

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

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 7(a), 7(c)-I |

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.) | Lead(CAS: 7439-92-1) |
| SCIP | 05dd2ace-5119-49fe-9dcd-afb89e7fecb7 |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 1.621 kg CO2e |


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