# RIF-2-RPT-LDP-24DC/2X21 - Relay module

2903315

https://www.phoenixcontact.com/us/products/2903315

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Preassembled relay module with Push-in connection, consisting of: relay base, power contact relay, and retaining bracket. Contact switching type: 2 changeover contacts. Input voltage: 24 V DC

## Product description

The pluggable electromechanical and solid-state relays in the RIFLINE complete product range and the base are recognized and approved in accordance with UL 508. The relevant approvals can be called up at the individual components in question.

## Commercial data

| | |
|---|---|
| Item number | 2903315 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | C465 |
| Product key | DK652A |
| GTIN | 4046356732178 |
| Weight per piece (including packing) | 108.83 g |
| Weight per piece (excluding packing) | 100 g |
| Customs tariff number | 85364110 |
| Country of origin | CN |

## Set consists of

### RIF-2-BPT/4X21 - Relay base

2900934

https://www.phoenixcontact.com/us/products/2900934



Relay base RIF-2..., for industrial relay with 2 or 4 changeover contacts, Push-in connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

### REL-IR/LDP- 24DC/2X21/MS - Single relay

1819045

https://www.phoenixcontact.com/us/products/1819045



Plug-in industrial relay with power contacts, 2 changeover contacts, test button, status LED, freewheeling diode, mechanical switching position indicator, polarity: A1+, A2-, input voltage: 24 V DC

## RIF-RH-2-L - Retaining bracket

1899071

https://www.phoenixcontact.com/us/products/1899071



Relay retaining bracket, with ejector function and holder for marking material, suitable for RIF-2 relay base, for industrial relay with 28 mm height

# Technical data

## Product properties

| | |
|---|---|
| Product type | Relay Module |
| Product family | RIFLINE complete |
| Application | Universal |
| Operating mode | 100% operating factor |
| Mechanical service life | 1x $10^7$ cycles |

Insulation characteristics: Air clearances and creepage distances between the control circuit and the load circuit

| | |
|---|---|
| Insulation | Safe isolation |
| Overvoltage category | III |
| Pollution degree | 2 |

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

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

Data management status

| | |
|---|---|
| Date of last data management | 18.09.2026 |

## Electrical properties

| | |
|---|---|
| Maximum power dissipation for nominal condition | 1.01 W |
| Test voltage (Winding/contact) | 2.5 kV AC (50 Hz, 1 min., winding/contact) |
| Test voltage (open contact) | 1.2 kV AC (50 Hz, 1 min., open contact) |
| Test voltage (Changeover contact/changeover contact) | 2 kV AC (50 Hz, 1 min., changeover contact/changeover contact) |

Air clearances and creepage distances between the control circuit and the load circuit

| | |
|---|---|
| Rated insulation voltage | 250 $V_{rms}$ |
| Rated surge voltage | 4 kV |

Air clearances and creepage distances between the load circuits

| | |
|---|---|
| Rated insulation voltage | 250 $V_{rms}$ |
| Rated surge voltage | 4 kV |

## Input data

Coil side

| | |
|---|---|
| Nominal input voltage $U_N$ | 24 V DC |
| Input voltage range | 18 V DC ... 40.8 V DC |
| Drive and function | monostable |
| Drive (polarity) | polarized |
| Typical input current at $U_N$ | 32 mA DC |
| Typical response time | 15 ms |
| Typical release time | 18 ms |

| | |
|---|---|
| Typical release voltage | 2.4 V |
| Coil voltage | 24 V |
| Status display | Yellow LED |
| Bouncing time | 10 ms |

## Output data

Switching

| | |
|---|---|
| Contact switching type | 2 changeover contacts |
| Type of switch contact | Single contact |
| Contact material | AgNi |
| Maximum switching voltage | 250 V AC |
| | 300 V DC |
| Minimum switching voltage | 12 V |
| Limiting continuous current | 12 A |
| Maximum inrush current | 24 A |
| Min. switching current | 10 mA |
| Interrupting rating (ohmic load) max. | 288 W (24 V DC) |
| | 130 W (48 V DC) |
| | 90 W (60 V DC) |
| | 66 W (110 V DC) |
| | 88 W (220 V DC) |
| | 3000 VA (250 V AC) |
| Switching capacity | 4 A (24 V, DC13) |
| | 2 A (250 V, AC15) |

## Connection data

| | |
|---|---|
| Connection method | Push-in connection |
| Stripping length | 8 mm |
| Conductor cross-section rigid | 0.14 mm² ... 1.5 mm² |
| Conductor cross-section flexible | 0.14 mm² ... 1.5 mm² |
| | 0.14 mm² ... 1.5 mm² (Ferrule with plastic sleeve) |
| | 0.14 mm² ... 1 mm² (Ferrule with plastic sleeve, two conductors on double terminal block) |
| Conductor cross-section AWG | 26 ... 16 (solid) |
| | 26 ... 16 (flexible) |

## Dimensions

Item dimensions

| | |
|---|---|
| Width | 31 mm |
| Height | 96 mm |
| Depth | 67.5 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) |
| Degree of protection (Relay) | RT II (Relay) |
| Ambient temperature (operation) | -40 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

## Standards and regulations

Air clearances and creepage distances between the control circuit and the load circuit

| | |
|---|---|
| Standards/regulations | IEC 60947-5-1 |

Air clearances and creepage distances between the load circuits

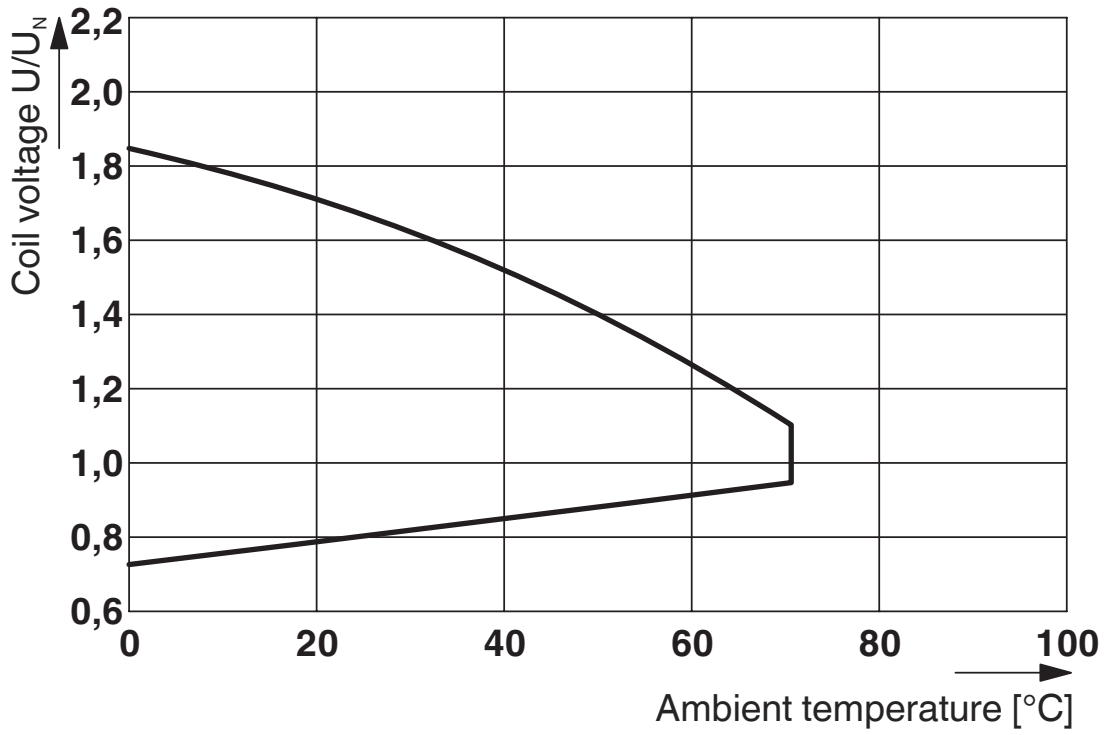
| | |
|---|---|
| Standards/regulations | IEC 60947-5-1 |

## Mounting

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

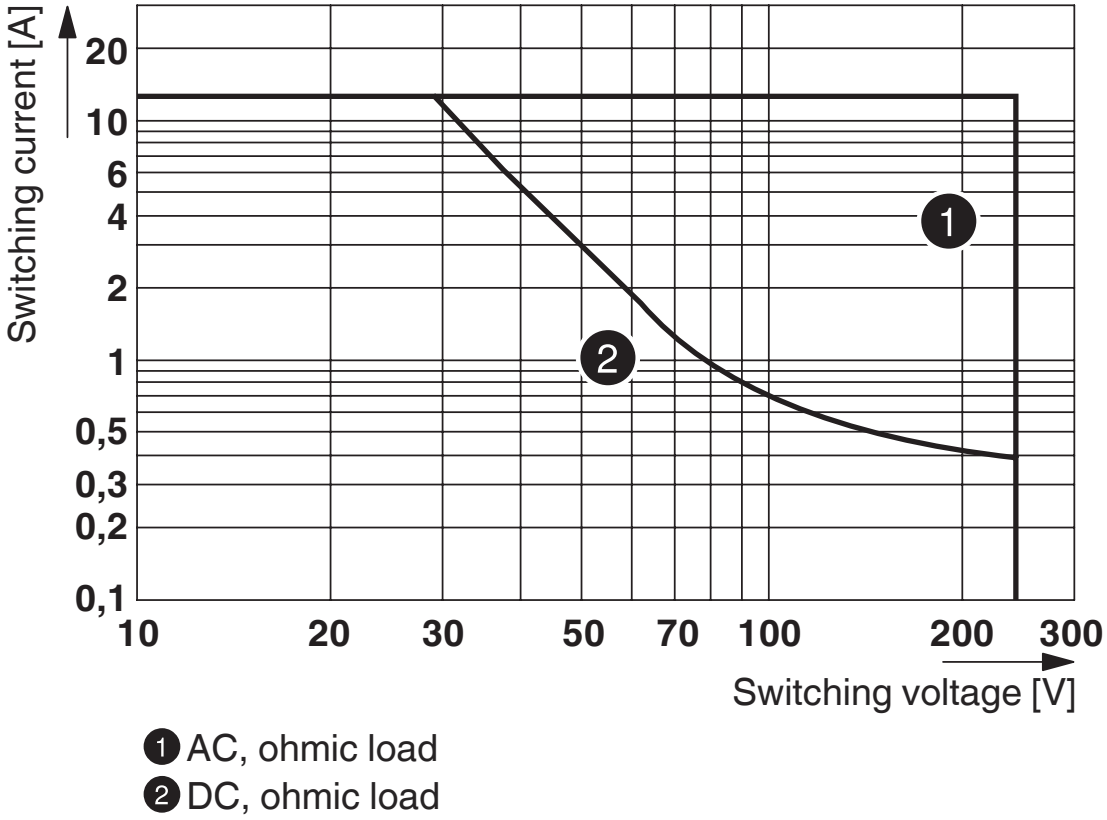
## Drawings

Diagram




Operating voltage range

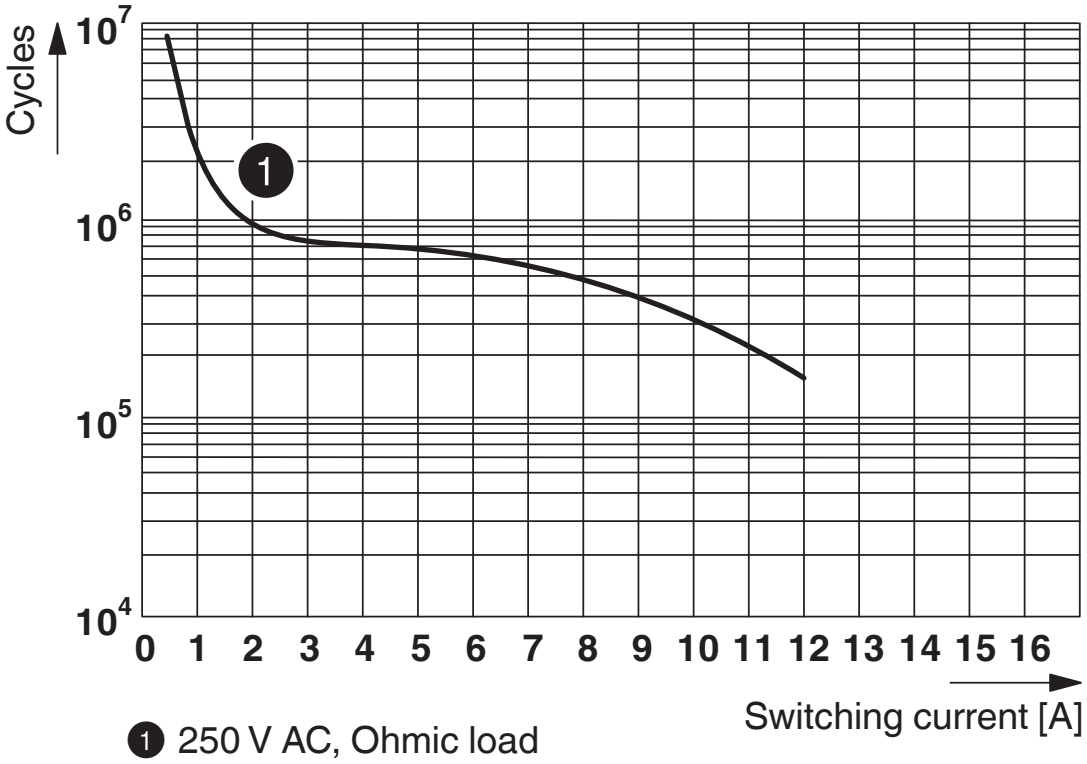
Diagram




1 AC, ohmic load
2 DC, ohmic load

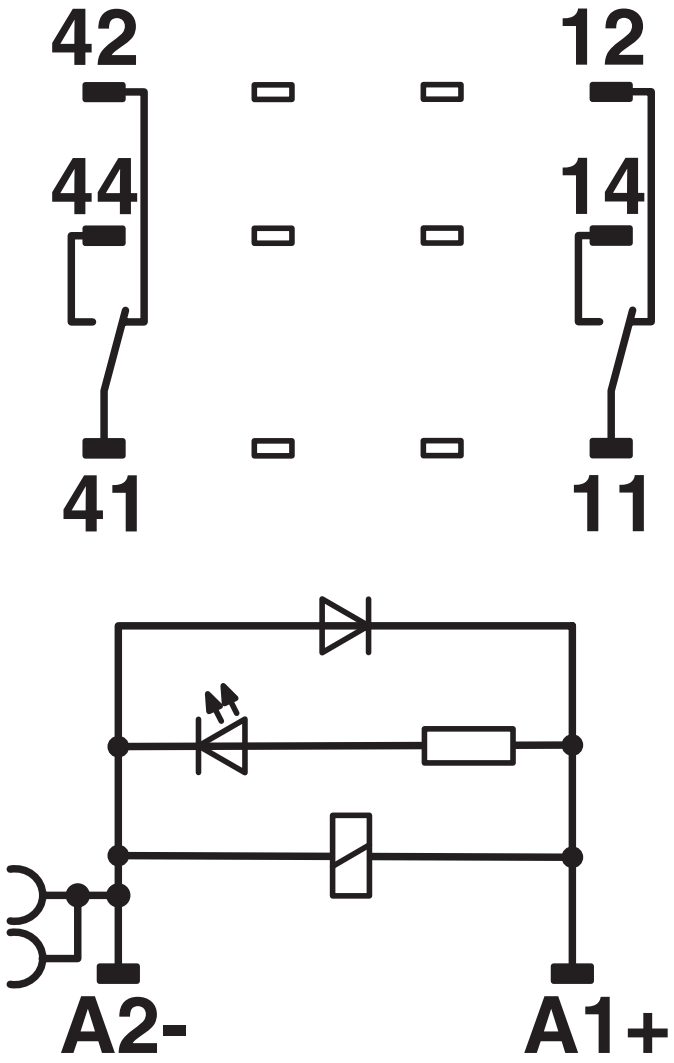
Interrupting rating

Diagram




Electrical service life

Circuit diagram




DC coils

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2903315

**DNV**
Approval ID: TAA000018V

## 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(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.) | No substance above 0.1 wt% |


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