

RIF-0-RPT-24DC/21 - Relay module



2903370

<https://www.phoenixcontact.com/us/products/2903370>

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Preassembled relay module with Push-in connection, consisting of: relay base with ejector and power contact relay. Contact switching type: 1 changeover contact. 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 | 2903370 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | C465 |
| Product key | DK6528 |
| GTIN | 4046356731942 |
| Weight per piece (including packing) | 27.77 g |
| Weight per piece (excluding packing) | 24.2 g |
| Customs tariff number | 85364110 |
| Country of origin | CN |

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Set consists of

RIF-0-BPT/21 - Relay base

2900958

<https://www.phoenixcontact.com/us/products/2900958>

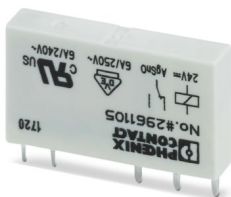


Relay base RIF-0..., for miniature power relay with 1 changeover contact or solid-state relays of the same design, Push-in connection, for mounting on NS 35/7,5

REL-MR- 24DC/21 - Single relay

2961105

<https://www.phoenixcontact.com/us/products/2961105>



Plug-in miniature power relay, with power contact, 1 changeover contact, input voltage 24 V DC

Technical data

Product properties

| | |
|-------------------------|--------------------------------|
| Product type | Relay Module |
| Product family | RIFLINE complete |
| Application | Universal |
| Operating mode | 100% operating factor |
| Mechanical service life | approx. 2×10^7 cycles |

Insulation characteristics

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

Data management status

| | |
|------------------------------|------------|
| Date of last data management | 05.06.2026 |
|------------------------------|------------|

Electrical properties

| | |
|-------------------------------------------------|------------------------------------------------------|
| Service life electrical | see diagram |
| Maximum power dissipation for nominal condition | 0.22 W |
| Test voltage (Winding/contact) | 4 kV _{rms} (50 Hz, 1 min., winding/contact) |
| 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 | 19.2 V DC ... 36 V DC (20 °C) |
| Input voltage range in reference to U_N | see diagram |
| Drive and function | monostable |
| Drive (polarity) | polarized |
| Typical input current at U_N | 9 mA |
| Typical response time | 5 ms |
| Typical release time | 8 ms |
| Coil voltage | 24 V DC |
| Protective circuit | Freewheeling diode |
| Operating voltage display | Yellow LED |

Output data

Switching

| | |
|------------------------|----------------------|
| Contact switching type | 1 changeover contact |
| Type of switch contact | Single contact |
| Contact material | AgSnO |

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| | |
|------------------------------------------------|---------------------------------|
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 5 V (100 mA) |
| Limiting continuous current | 6 A |
| Min. switching current | 10 mA (12 V) |
| Interrupting rating (ohmic load) max. | 140 W (24 V DC) |
| | 20 W (48 V DC) |
| | 18 W (60 V DC) |
| | 23 W (110 V DC) |
| | 40 W (220 V DC) |
| | 1500 VA (250 V AC) |
| Utilization category CB Scheme (IEC 60947-5-1) | AC15, 3 A/250 V (N/O contact) |
| | AC15, 1 A/250 V (N/C contact) |
| | DC13, 1.5 A/24 V (N/O contact) |
| | DC13, 0.2 A/110 V (N/O contact) |
| | DC13, 0.1 A/220 V (N/O contact) |

Connection data

| | |
|----------------------------------|----------------------------------------------------------------------------|
| Connection method | Push-in connection |
| Stripping length | 8 mm |
| Conductor cross-section rigid | 0.14 mm ² ... 1.5 mm ² |
| Conductor cross-section flexible | 0.14 mm ² ... 1.5 mm ² |
| | 0.14 mm ² ... 1.5 mm ² (Ferrule with plastic sleeve) |
| Conductor cross-section AWG | 24 ... 16 |

Dimensions

Item dimensions

| | |
|--------|--------|
| Width | 6.2 mm |
| Height | 93 mm |
| Depth | 78 mm |

Material specifications

| | |
|--------------------------------------------------|-----------------|
| Color | gray (RAL 7042) |
| Flammability rating according to UL 94 (Housing) | V2 (Housing) |

Environmental and real-life conditions

Ambient conditions

| | |
|-----------------------------------------|-------------------|
| Degree of protection (Relay base) | IP20 (Relay base) |
| Degree of protection (Relay) | RT III (Relay) |
| Ambient temperature (operation) | -40 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

Approvals

Corrosive gas test

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

Standards and regulations

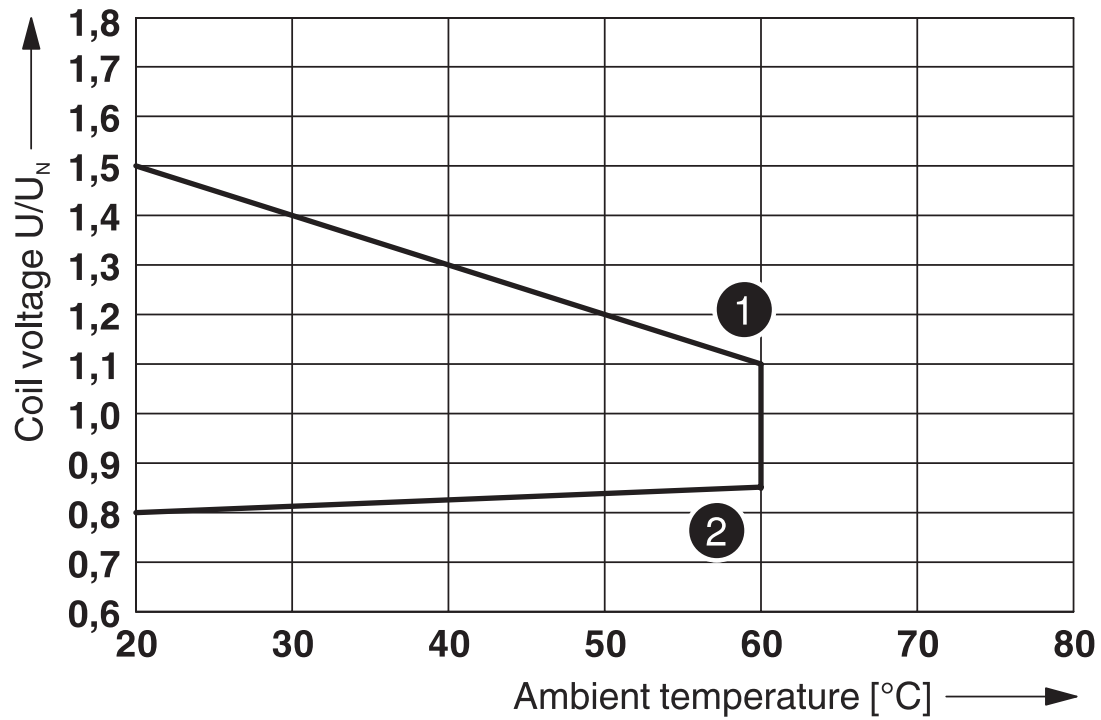
| | |
|-----------------------|---------------|
| Standards/regulations | IEC 60947-5-1 |
|-----------------------|---------------|

Mounting

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

Drawings

Diagram



① Maximum continuous voltage at limiting continuous current = 6 A

② Minimum operate voltage

For pre-excitation with U_N and limiting continuous current = 6 A

Operating voltage range

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Interrupting rating

Diagram



Service life reduction factor

Diagram



① 250 V AC, ohmic load

Electrical service life



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 $\leq 0^\circ\text{C}$ must be prevented

Area B: Condensation at ambient temperatures $> 0^\circ\text{C}$ must be prevented

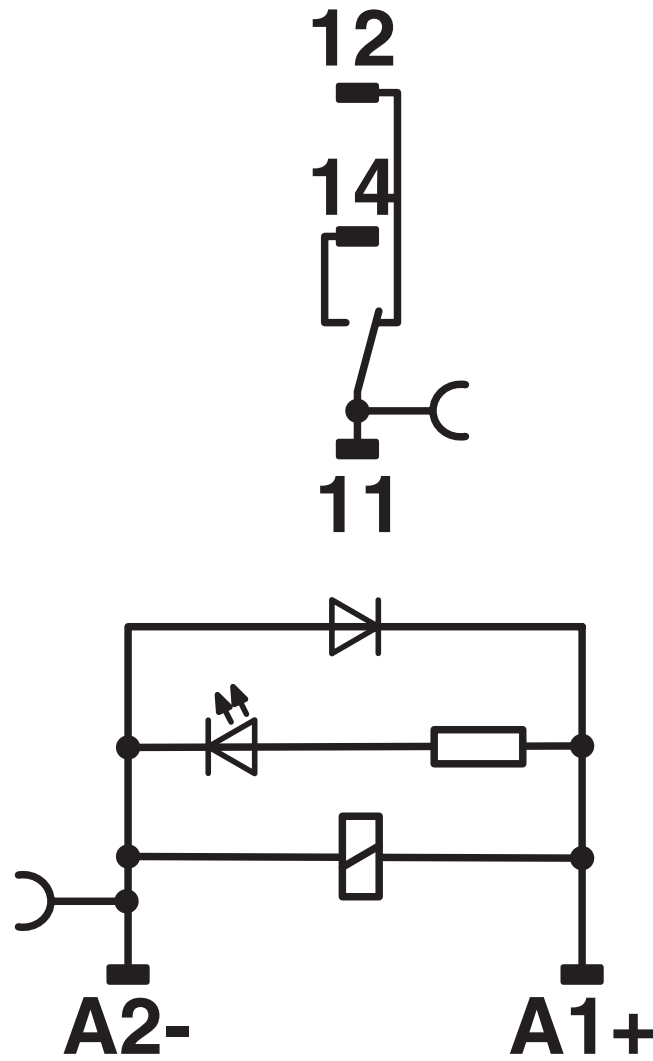
On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature $\leq 25^\circ\text{C}$.

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Circuit diagram



DC coils

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2903370>

DNV

Approval ID: TAA000018V

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Classifications

ECLASS

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

ETIM

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

UNSPSC

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

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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 | f21ac7a6-4c9e-4971-9f07-b5d7f3b13f8e |

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