

# RIF-0-RPT-12DC/21AU - Relay module



2903369

<https://www.phoenixcontact.com/us/products/2903369>

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.



Preamsembled relay module with Push-in connection, consisting of: relay base with ejector and multi-layer gold contact relay. Contact switching type: 1 changeover contact. Input voltage: 12 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                          | 2903369       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 10 pc         |
| Sales key                            | C465          |
| Product key                          | DK652G        |
| GTIN                                 | 4046356732970 |
| Weight per piece (including packing) | 28.42 g       |
| Weight per piece (excluding packing) | 27.5 g        |
| Customs tariff number                | 85364110      |
| Country of origin                    | CZ            |

# RIF-0-RPT-12DC/21AU - Relay module



2903369

<https://www.phoenixcontact.com/us/products/2903369>

## Set consists of

### RIF-0-BPT/21 - Relay base

2900958

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



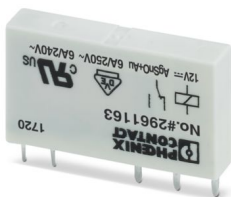
Relay base RIF-0..., for miniature power relay with 1 changeover contact or solid-state relays of the same design, Push-in connection, for mounting on NS 35/7,5

---

### REL-MR- 12DC/21AU - Single relay

2961163

<https://www.phoenixcontact.com/us/products/2961163>



Plug-in miniature power relay, with multi-layer gold contact, 1 changeover contact, input voltage 12 V DC

# RIF-0-RPT-12DC/21AU - Relay module



2903369

<https://www.phoenixcontact.com/us/products/2903369>

## Technical data

### Product properties

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

### Insulation characteristics

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

### Data management status

|                              |            |
|------------------------------|------------|
| Date of last data management | 18.09.2025 |
|------------------------------|------------|

### Electrical properties

|                                                 |                                                      |
|-------------------------------------------------|------------------------------------------------------|
| Service life electrical                         | see diagram                                          |
| Maximum power dissipation for nominal condition | 0.19 W                                               |
| Test voltage (Winding/contact)                  | 4 kV <sub>rms</sub> (50 Hz, 1 min., winding/contact) |
| Rated insulation voltage                        | 250 V AC                                             |
| Rated surge voltage                             | 6 kV                                                 |

### Input data

#### Coil side

|                                           |                              |
|-------------------------------------------|------------------------------|
| Nominal input voltage $U_N$               | 12 V DC                      |
| Input voltage range                       | 9.6 V DC ... 18 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 $U_N$            | 16 mA                        |
| Typical response time                     | 5 ms                         |
| Typical release time                      | 8 ms                         |
| Coil voltage                              | 12 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, hard gold-plated |

# RIF-0-RPT-12DC/21AU - Relay module



2903369

<https://www.phoenixcontact.com/us/products/2903369>

|                                                |                                 |
|------------------------------------------------|---------------------------------|
| Maximum switching voltage                      | 30 V AC                         |
|                                                | 36 V DC                         |
| Minimum switching voltage                      | 100 mV (10 mA)                  |
| Limiting continuous current                    | 50 mA                           |
| Maximum inrush current                         | 50 mA                           |
| Min. switching current                         | 1 mA (12 V)                     |
| Interrupting rating (ohmic load) max.          | 1.2 W (24 V DC)                 |
| 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) |

Switching: when the gold layer is destroyed

|                                       |                                                                  |
|---------------------------------------|------------------------------------------------------------------|
| Note                                  | the following values are applicable if a gold layer is destroyed |
| Contact material                      | AgSnO                                                            |
| Maximum switching voltage             | 250 V AC/DC                                                      |
| Minimum switching voltage             | 5 V (at 100 mA)                                                  |
| Limiting continuous current           | 6 A                                                              |
| Min. switching current                | 10 mA (at 12 V)                                                  |
| 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                | Push-in connection                                                         |
| Stripping length                 | 8 mm                                                                       |
| Conductor cross-section rigid    | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                               |
| Conductor cross-section flexible | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                               |
|                                  | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrule with plastic sleeve) |
| Conductor cross-section AWG      | 24 ... 16                                                                  |

## Dimensions

Item dimensions

# RIF-0-RPT-12DC/21AU - Relay module



2903369

<https://www.phoenixcontact.com/us/products/2903369>

|        |        |
|--------|--------|
| 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

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

## Standards and regulations

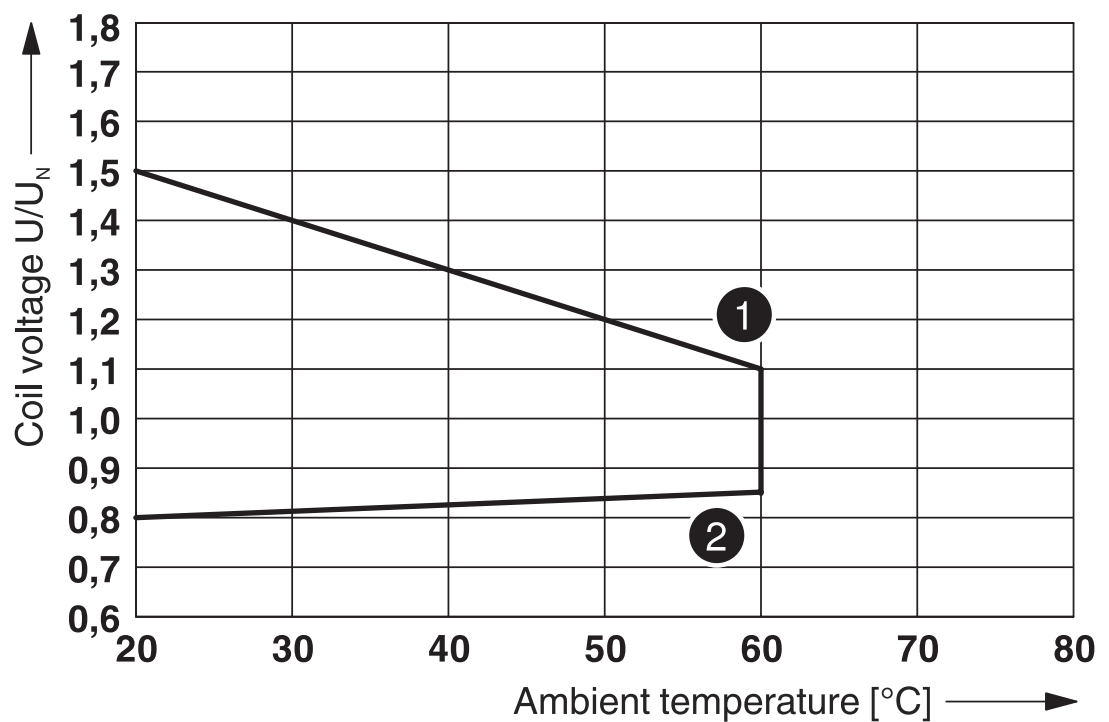
|                       |               |
|-----------------------|---------------|
| Standards/regulations | IEC 60947-5-1 |
|-----------------------|---------------|

## Mounting

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

## Drawings

Diagram

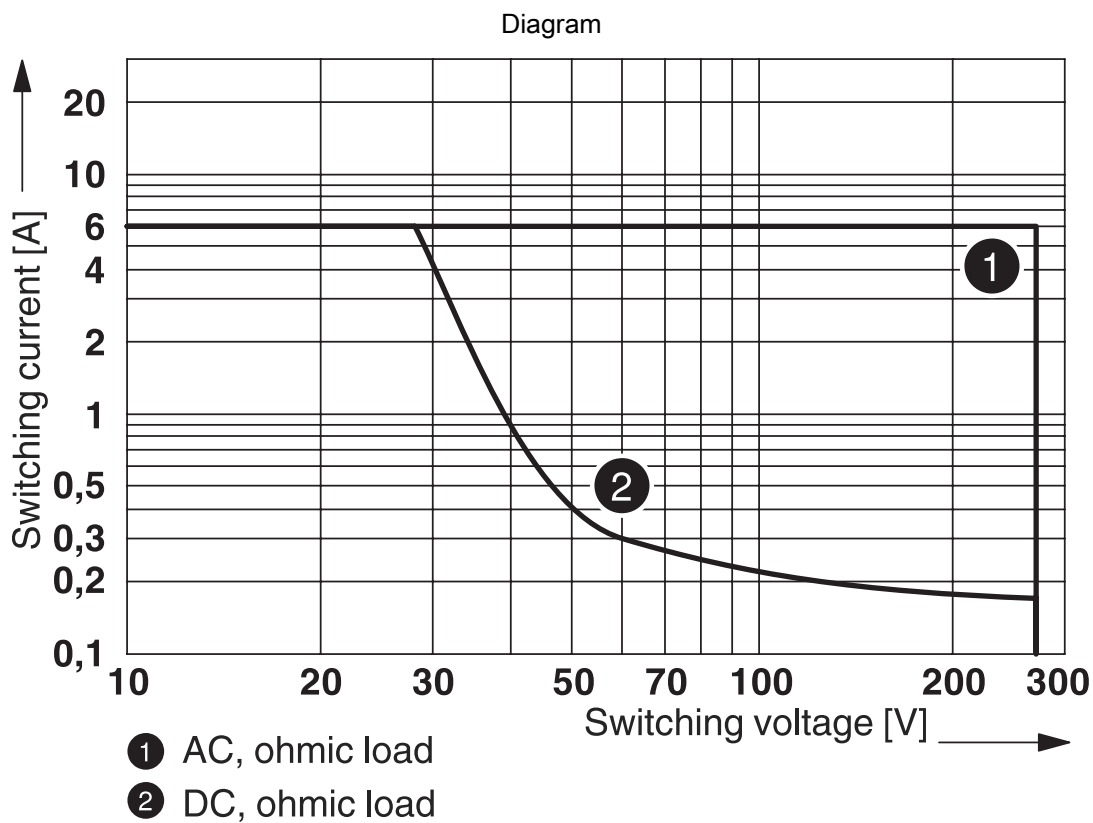


① Maximum continuous voltage at limiting continuous current = 6 A

② Minimum operate voltage

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

Operating voltage range

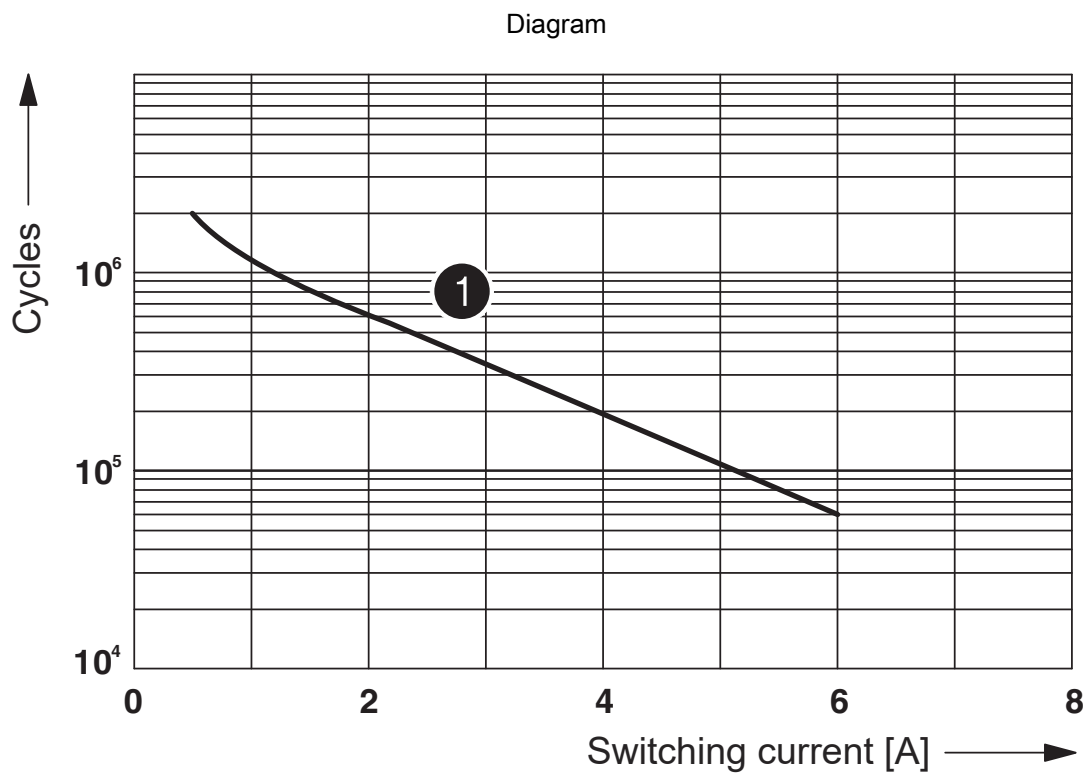


Interrupting rating

Diagram

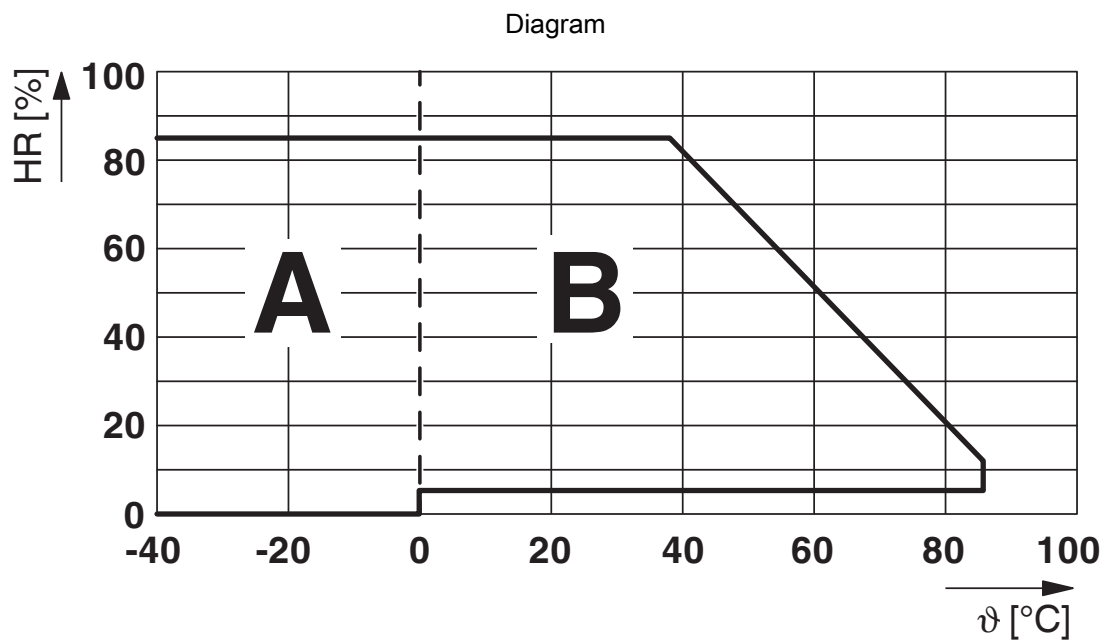


Service life reduction factor



① 250 V AC, ohmic load

Electrical service life



Permissible humidity for operation and storage.

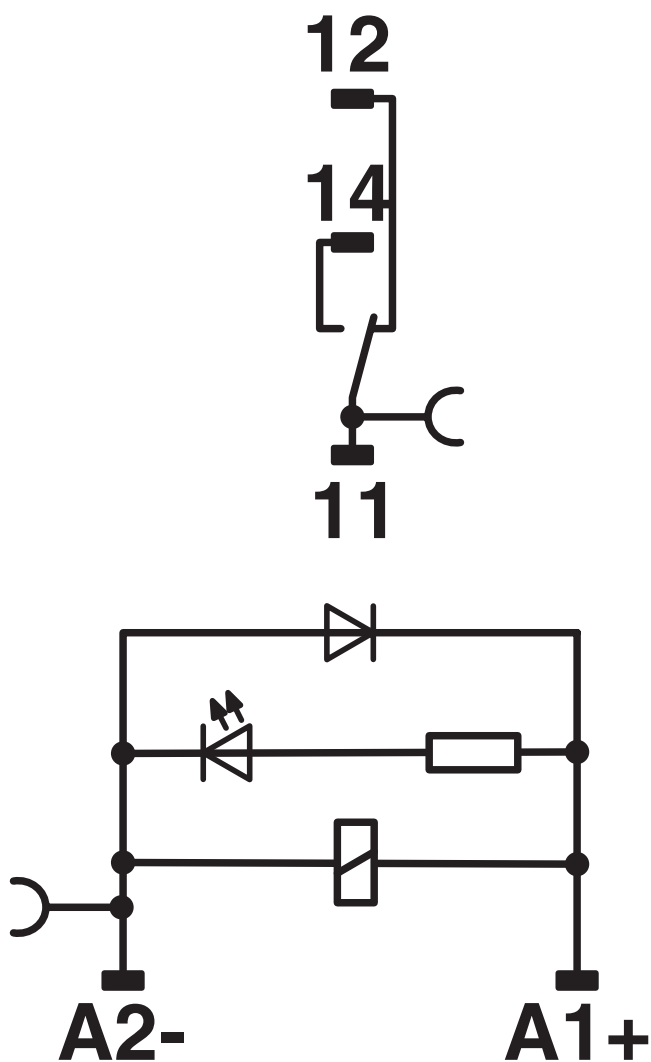
The maximum permissible ambient temperature as specified in the data sheet must be observed.

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  $\leq 25^{\circ}\text{C}$ .

Circuit diagram



DC coils

# RIF-0-RPT-12DC/21AU - Relay module



2903369

<https://www.phoenixcontact.com/us/products/2903369>

## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2903369>

### DNV

Approval ID: TAA000018V

# RIF-0-RPT-12DC/21AU - Relay module



2903369

<https://www.phoenixcontact.com/us/products/2903369>

## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001437 |
|----------|----------|

### UNSPSC

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

# RIF-0-RPT-12DC/21AU - Relay module



2903369

<https://www.phoenixcontact.com/us/products/2903369>

## 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                                | ab3b2c6f-fa75-4ac6-8c7a-4ce9c73f00c2 |

Phoenix Contact 2025 © - 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](mailto:info@phoenixcon.com)