

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



2903373

<https://www.phoenixcontact.com/us/products/2903373>

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Preassembled relay module with screw 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                          | 2903373                        |
| Packing unit                         | 10 pc                          |
| Minimum order quantity               | 10 pc                          |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C465                           |
| Product key                          | DK651G                         |
| GTIN                                 | 4046356732031                  |
| Weight per piece (including packing) | 33.37 g                        |
| Weight per piece (excluding packing) | 33.37 g                        |
| Customs tariff number                | 85364110                       |
| Country of origin                    | CZ                             |

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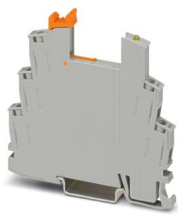
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## Set consists of

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

2900957

<https://www.phoenixcontact.com/us/products/2900957>



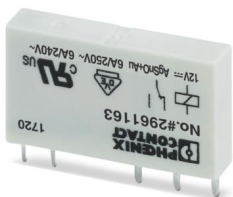
RIF-0... relay base, for miniature power relay with 1 changeover contact or identical solid-state relays, screw connection, for mounting on NS 35/7,5

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### 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

## 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 | 12.09.2025 |
|------------------------------|------------|

### 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 |

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|  |                                 |
|--|---------------------------------|
| 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                        | <b>the following values are applicable if a gold layer is destroyed</b> |                    |
| 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) |
| Switching capacity          | 1500 VA (for 250 V AC)  |                    |
|                             | 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  | 7 mm   |
| Conductor cross-section rigid   | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>                                    |
| Conductor cross-section rigid (2 conductors with same cross section)    | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                                  |
| Conductor cross-section flexible  | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                                  |
|   | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Ferrule without plastic sleeve) |
|   | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrule with plastic sleeve)    |
| Conductor cross-section flexible (2 conductors with same cross section) | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                                  |

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|                             |  |
|-----------------------------|--|
|                             | 0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup> (TWIN ferrule with plastic sleeve) |
| Conductor cross-section AWG | 20 ... 12 (solid)  |
|                             | 20 ... 14 (flexible)   |
| Tightening torque           | 0.5 Nm ... 0.6 Nm  |

## Dimensions

### Item dimensions

|        |        |
|--------|--------|
| Width  | 6.2 mm |
| Height | 84 mm  |
| Depth  | 82 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

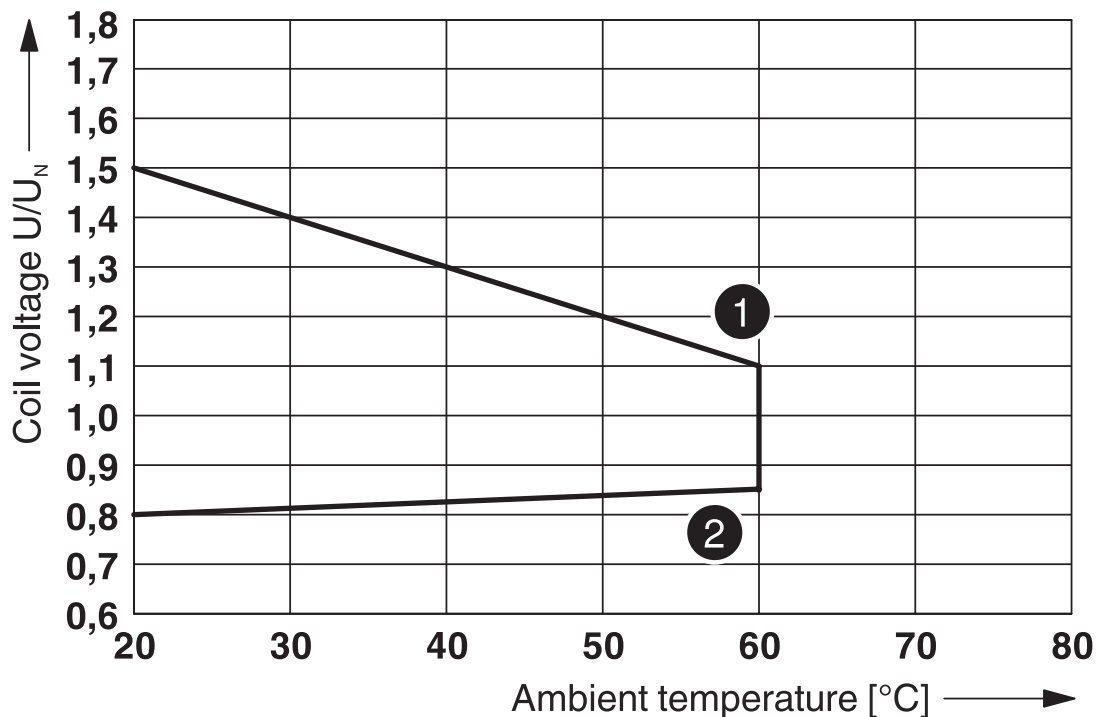
|                       |               |
|-----------------------|---------------|
| Standards/regulations | IEC 60947-5-1 |
|-----------------------|---------------|

## 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



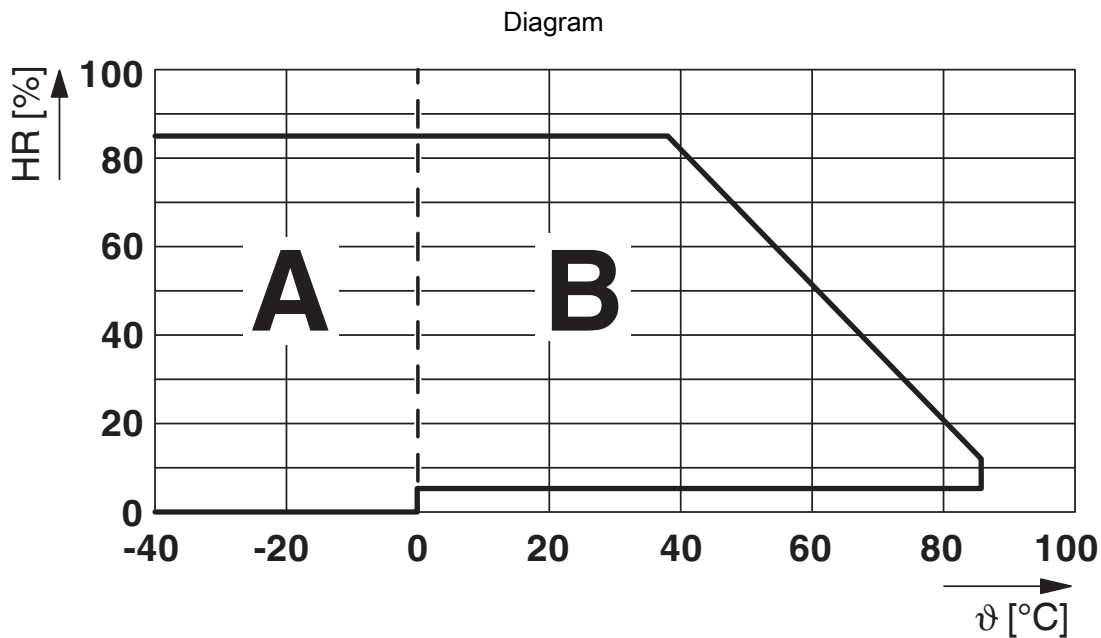
Service life reduction factor with various cos phi

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

Circuit diagram



DC coils

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## Classifications

### ECLASS

ECLASS-13.0

27371601

### ETIM

ETIM 9.0

EC001437

### UNSPSC

UNSPSC 21.0

39122300

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## Environmental product compliance

### EU RoHS

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

### 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                                | 4996fe3c-8f71-493e-894e-ebc0ff3867a7 |

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