

# RIF-1-RPT-LDP-24DC/2X21/FG - Relay module



2908215

<https://www.phoenixcontact.com/us/products/2908215>

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Preassembled relay module with Push-in connection, consisting of: relay base, safety relay with force-guided contacts in accordance with DIN EN 61810-3, plug-in display/interference suppression module, and retaining bracket, contact switching type: 2 changeover contacts, input voltage: 24 V DC

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2908215       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 10 pc         |
| Sales key                            | C465          |
| Product key                          | DK652D        |
| GTIN                                 | 4055626289151 |
| Weight per piece (including packing) | 74.487 g      |
| Weight per piece (excluding packing) | 71.52 g       |
| Customs tariff number                | 85364110      |
| Country of origin                    | CZ            |

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## Set consists of

### REL-SR- 24DC/2X21/FG X - Safety relays

1473564

<https://www.phoenixcontact.com/us/products/1473564>



Safety relay with force-guided contacts in accordance with DIN EN 61810-3, contact switching type: 2 changeover contacts. The requirements for type A in accordance with DIN EN 61810-3 are satisfied if the circuit is designed as 1 N/O contact / 1 N/C contact.

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### RIF-LDP-12-24 DC - Plug-in module

2900939

<https://www.phoenixcontact.com/us/products/2900939>



Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with freewheeling diode and yellow LED, polarity: A1+, A2-, input voltage: 12 V DC ... 24 V DC  $\pm 30\%$

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2908215

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## RIF-RH-1-H - Retaining bracket

2904468

<https://www.phoenixcontact.com/us/products/2904468>



Relay retaining bracket, with ejector function and holder for marking material, suitable for RIF-1 relay base, for 25 mm tall miniature power relay and solid-state relay

## Technical data

### Product properties

|                         |                                       |
|-------------------------|---------------------------------------|
| Product type            | Relay Module                          |
| Product family          | RIFLINE complete                      |
| Application             | Forcibly guided contacts              |
| Operating mode          | 100% operating factor                 |
| Mechanical service life | approx. 10 <sup>7</sup> cycles        |
| B <sub>10d</sub> (AC1)  | 600000 Cycles (250 V / 6 A; 1 NO)     |
|                         | 900000 Cycles (250 V / 3 A; 1 NO)     |
|                         | 1800000 Cycles (250 V / 1,5 A; 1 NO)  |
| B <sub>10d</sub> (AC15) | 180000 Cycles (250 V / 3 A; 1 NO)     |
|                         | 560000 Cycles (250 V / 2 A; 1 NO)     |
|                         | 4600000 Cycles (250 V / 0,75 A; 1 NO) |
| B <sub>10d</sub> (DC13) | 300000 Cycles (24 V / 3 A; 1 NO)      |
|                         | 1000000 Cycles (24 V / 1,5 A; 1 NO)   |
|                         | 3000000 Cycles (24 V / 0,75 A; 1 NO)  |

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

|                      |  |
|----------------------|--|
| Insulation           | Safe isolation between input and output          |
|                      | Basic insulation between the changeover contacts |
| Overvoltage category | III  |
| Pollution degree     | 2  |

Data management status

|                              |            |
|------------------------------|------------|
| Date of last data management | 04.02.2026 |
|------------------------------|------------|

### Electrical properties

|  |                                     |
|--|-------------------------------------|
| Maximum power dissipation for nominal condition      | 0.72 W                              |
| Test voltage (Winding/contact)                       | 4 kV <sub>rms</sub> (50 Hz, 60 s)   |
| Test voltage (open contact)                          | 1.5 kV <sub>rms</sub> (50 Hz, 60 s) |
| Test voltage (Changeover contact/changeover contact) | 2.5 kV <sub>rms</sub> (50 Hz, 60 s) |

Air clearances and creepage distances between the power circuits

|                          |  |
|--------------------------|--|
| Rated insulation voltage | 250 V AC (Input/output)                |
| Rated surge voltage      | 6 kV (Input/output)                    |
|                          | 4 kV (between the changeover contacts) |

Short-circuit protection device

|                       |  |
|-----------------------|--|
| Current               | 10 A (RT28-32)                           |
| Voltage               | 500 V (SCPD)                             |
| Short-circuit current | 1 kA (conditional short-circuit current) |

### Input data

Coil side

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|   |                                 |
|---|---------------------------------|
| Nominal operating voltage $U_N$           | 24 V DC                         |
| Input voltage range                       | 20.4 V DC ... 28.8 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 $U_N$            | 30 mA                           |
| Typical response time                     | 15 ms                           |
| Typical release time                      | 10 ms                           |
| Coil voltage                              | 24 V DC                         |
| Protective circuit                        | Freewheeling diode              |
| Operating voltage display                 | Yellow LED                      |

## Output data

### Switching

|  |   |
|--|---|
| Contact switching type                         | 2 changeover contacts, forcibly actuated  |
| Type of switch contact                         | Single contact  |
| Contact material                               | AgSnO   |
| Maximum switching voltage                      | 250 V AC/DC   |
| Limiting continuous current                    | 6 A   |
| Interrupting rating (ohmic load) max.          | 144 W (24 V DC)<br>58 W (48 V DC)<br>54 W (60 V DC)<br>55 W (110 V DC)<br>55 W (220 V DC)<br>1500 VA (250 V AC) |
| Utilization category CB Scheme (IEC 60947-5-1) | AC15, 3 A/240 V (N/O contact)   |

## 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><br>0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrule with plastic sleeve)<br>0.14 mm <sup>2</sup> ... 1 mm <sup>2</sup> (Ferrule with plastic sleeve, two conductors on double terminal block) |
| Conductor cross-section AWG      | 26 ... 16   |

## Dimensions

### Item dimensions

|        |       |
|--------|-------|
| Width  | 16 mm |
| Height | 96 mm |
| Depth  | 70 mm |

### Drill hole

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|          |        |
|----------|--------|
| Diameter | 3.2 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 I (Relay)      |
| Ambient temperature (operation)         | -25 °C ... 60 °C  |
| Ambient temperature (storage/transport) | -25 °C ... 85 °C  |
| Altitude                                | ≤ 2000 m          |

## Approvals

### CE

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

### UKCA

|             |                |
|-------------|----------------|
| Certificate | UKCA-compliant |
|-------------|----------------|

### UL, USA/Canada

|                |                     |
|----------------|---------------------|
| Identification | cULus Listed UL 508 |
| Certificate    | NRNT.E172140        |

### Corrosive gas test

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

## Standards and regulations

### All specifications in accordance with the standard

|                       |               |
|-----------------------|---------------|
| Standards/regulations | IEC 60947-5-1 |
|                       | IEC 61810-3   |

### Air clearances and creepage distances between the power circuits

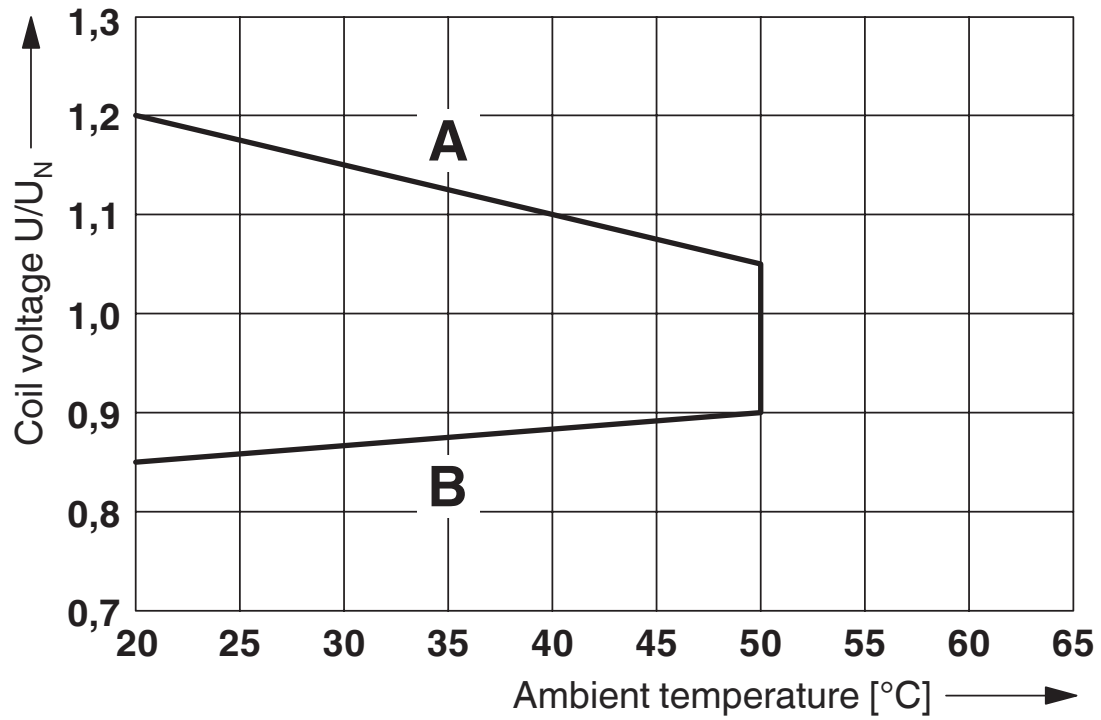
|                       |                  |
|-----------------------|------------------|
| Standards/regulations | DIN EN 60947-5-1 |
|-----------------------|------------------|

## Mounting

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

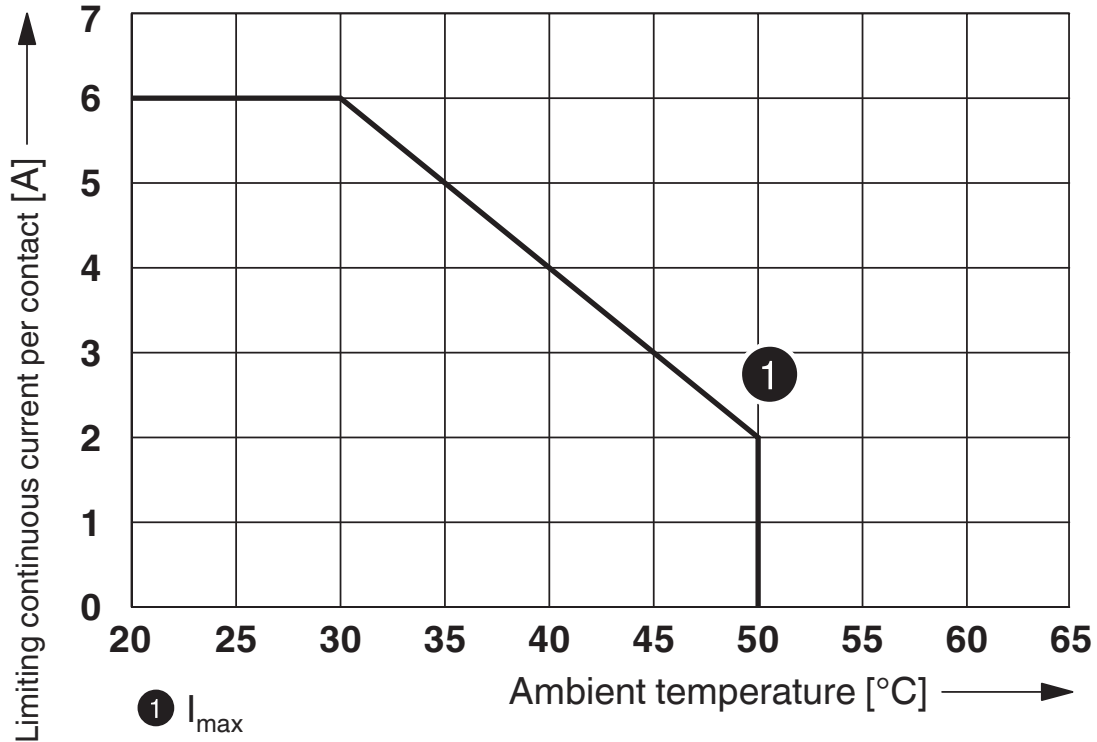
Drawings

Diagram



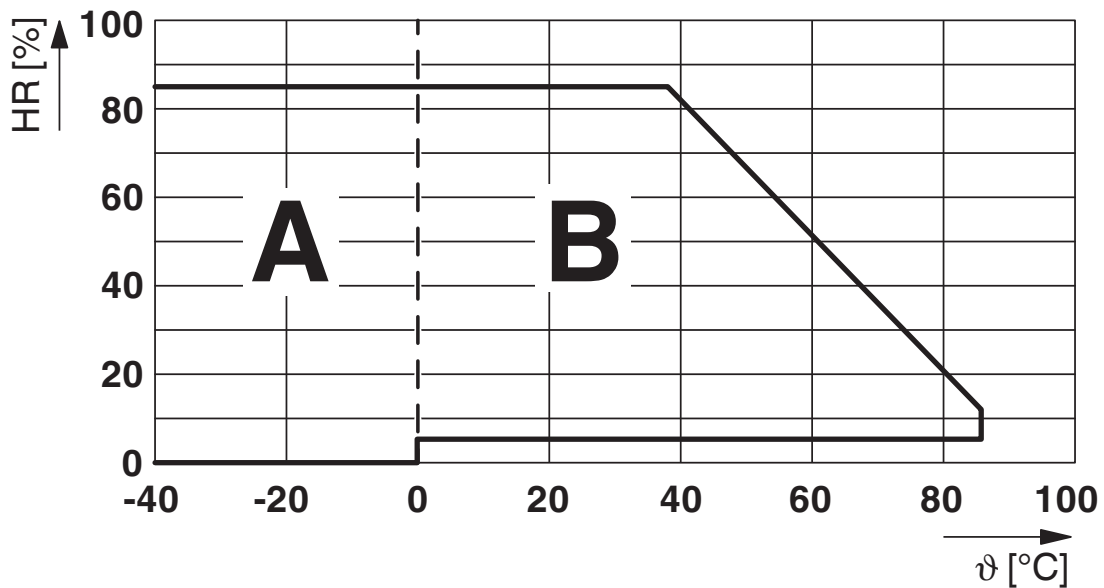
Operating voltage range

Diagram



Contact derating

Diagram



Permissible humidity for operation and storage.

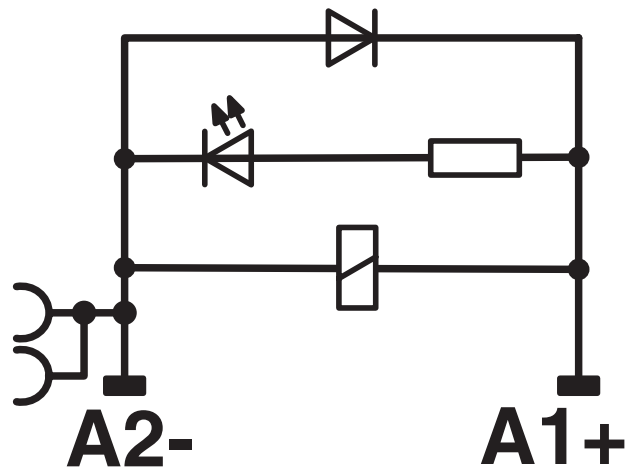
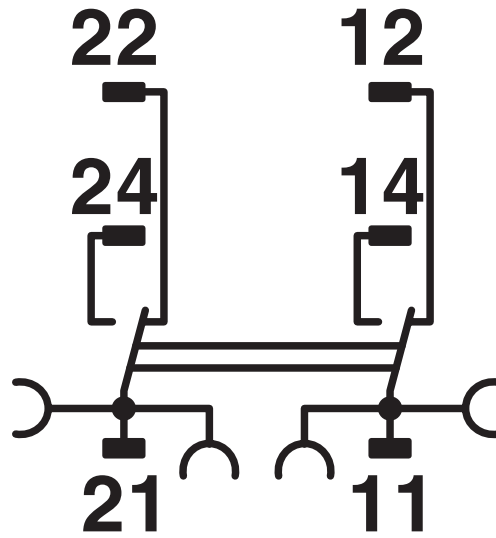
The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures  $\leq 0^\circ\text{C}$  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



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2908215>



**EAC**

Approval ID: RU\*C-DE.\*08.B.00010



**UL Listed**

Approval ID: FILE E 172140



**cUL Listed**

Approval ID: FILE E 172140

**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                                | 2f07a933-e75a-4d9a-aac6-da148b306deb |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 1.494 kg CO2e |
|---------|---------------|

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