

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>



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.

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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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. 10^7 cycles |
| B _{10d} (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 _{10d} (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 _{10d} (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 _{rms} (50 Hz, 60 s) |
| Test voltage (open contact) | 1.5 kV _{rms} (50 Hz, 60 s) |
| Test voltage (Changeover contact/changeover contact) | 2.5 kV _{rms} (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) |
| | 58 W (48 V DC) |
| | 54 W (60 V DC) |
| | 55 W (110 V DC) |
| | 55 W (220 V DC) |
| | 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 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) |
| | 0.14 mm ² ... 1 mm ² (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

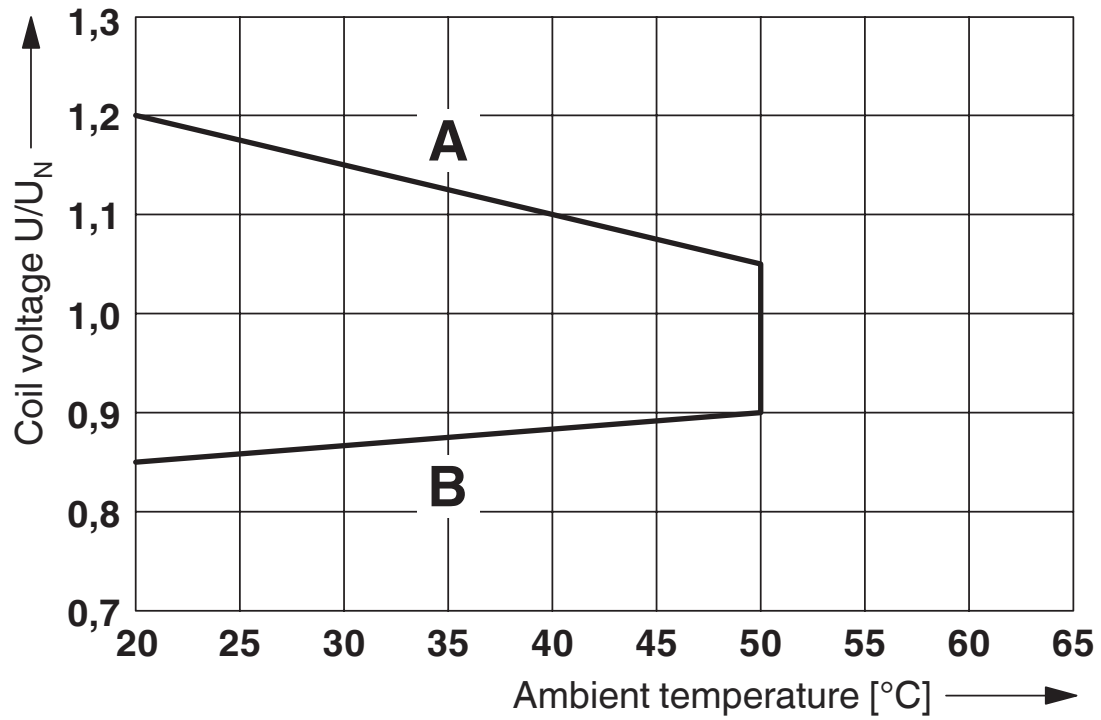
| | |
|-----------------------|------------------|
| Standards/regulations | DIN EN 60947-5-1 |
|-----------------------|------------------|

Mounting

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

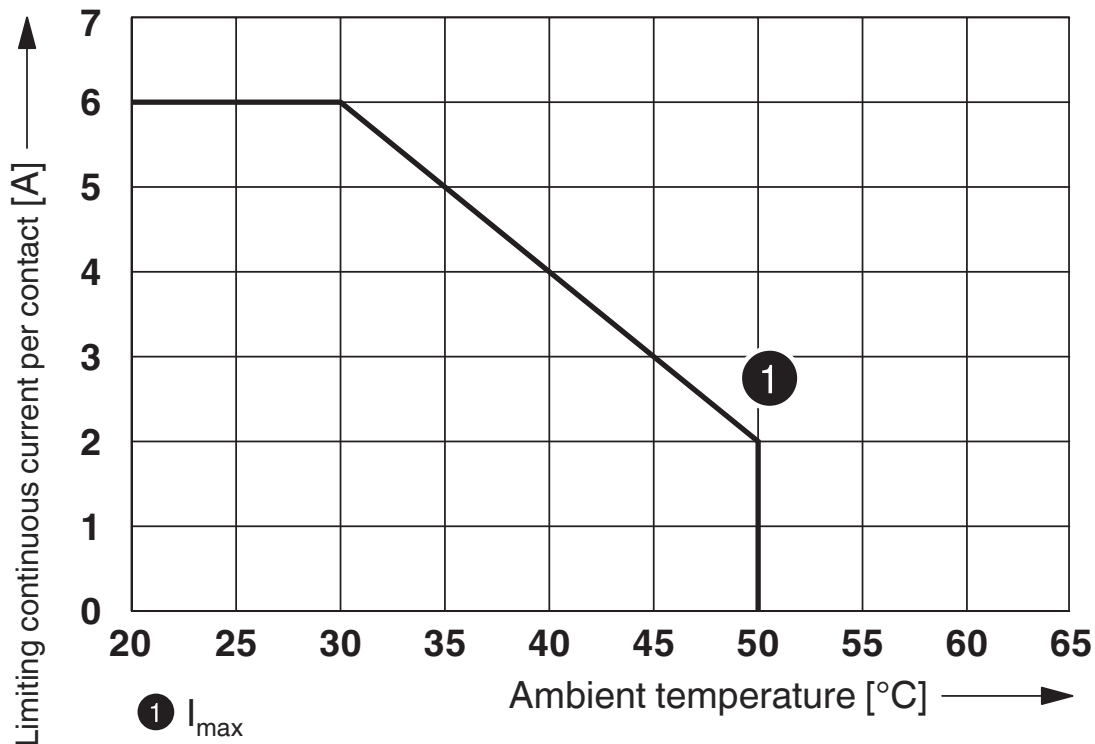
Drawings

Diagram



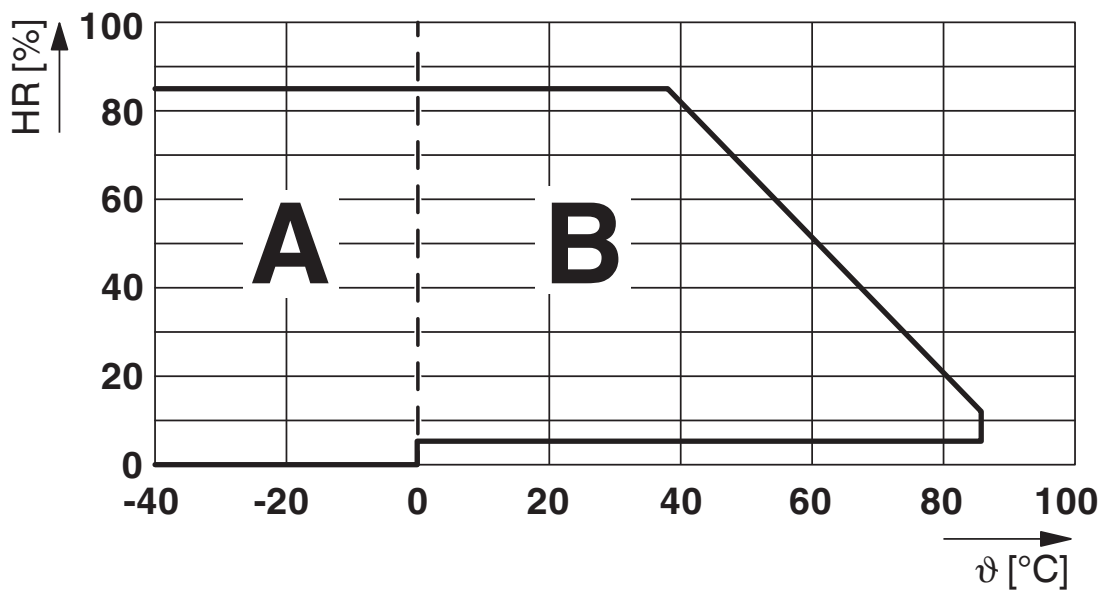
Operating voltage range

Diagram



Contact derating

Diagram



Permissible humidity for operation and storage.

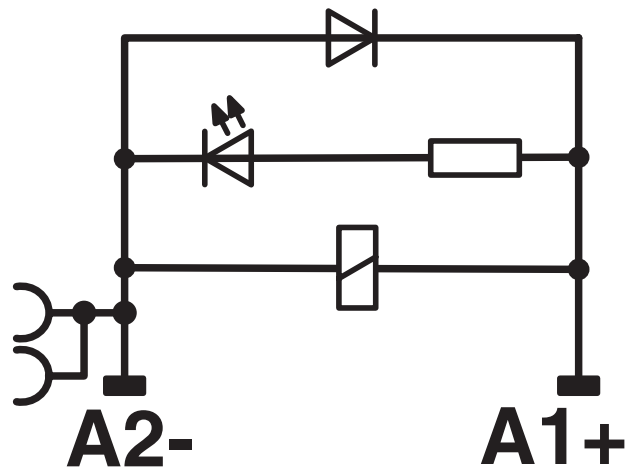
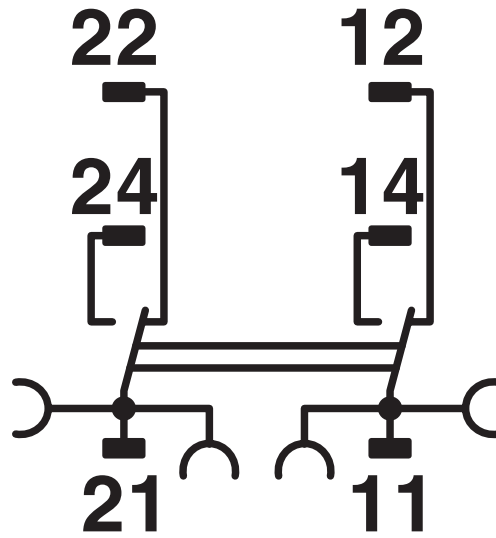
The maximum permissible ambient temperature as specified in the data sheet must be observed.

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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