

RIF-RPT-LDP-24DC/1X2/5X1/AU/FG - Relay module



1732886

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Relay module with Push-in connection, consisting of: relay base with status LED, freewheeling diode, and retaining bracket, safety relay with force-guided contacts in accordance with DIN EN 61810-3, contact switching type: 5 N/O contacts and 1 N/C contact, input voltage: 24 V DC

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1732886 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | C465 |
| Product key | DK652R |
| GTIN | 4067923290846 |
| Weight per piece (including packing) | 87 g |
| Weight per piece (excluding packing) | 87 g |
| Customs tariff number | 85364110 |
| Country of origin | CN |

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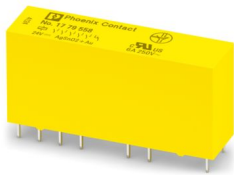
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Set consists of

REL-SR- 24DC/5X1AU/1X2AU/FG - Safety relays

1779558

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Safety relay with force-guided contacts in accordance with DIN EN 61810-3, contact switching type: 6 changeover contacts, multi-layer gold contact. The requirements for type A in accordance with DIN EN 61810-3 are satisfied if the circuit is designed as 5 N/O contacts/1 N/C contact.

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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} | 810000 Cycles (AC15, 250 V / 0.5 A, 1 NO) |
| | 170000 Cycles (AC15; 250 V / 2 A; 1 NO) |
| | 318000 Cycles (DC13, 24 V / 1 A, 1 NO) |
| | 208000 Cycles (DC13, 24 V / 2 A, 1 NO) |

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

| | |
|----------------------|--|
| Insulation | Basic insulation |
| | Safe isolation, reinforced insulation, and 6 kV between the coil and the contact circuit |
| Overvoltage category | III |
| Pollution degree | 2 |

Data management status

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

Electrical properties

| | |
|---|--|
| Maximum power dissipation for nominal condition | 0.56 W |
| Test voltage (Winding/contact) | 4 kV _{rms} (50 Hz, 1 min., winding/contact) |
| Test voltage (open contact) | 1.5 kV _{rms} (50 Hz, 1 min., open contact) |
| Test voltage () | 2.5 kV _{rms} (50 Hz, 1 min, between contacts: 11-12 to 13-14) |
| Test voltage () | 4 kV _{rms} (50 Hz, 1 min., between contacts: all others) |

Air clearances and creepage distances between the power circuits

| | |
|--------------------------|-------------------------|
| Rated insulation voltage | 250 V AC (Input/output) |
| Rated surge voltage | 6 kV (Input/output) |

Short-circuit protection device

| | |
|-----------------------|--|
| Current | 6 A (RT28-32) |
| Voltage | 250 V (SCPD) |
| Short-circuit current | 1 kA (conditional short-circuit current) |

Input data

Coil side

| | |
|--|----------------------|
| Nominal operating voltage U _N | 24 V DC |
| Input voltage range in reference to U _N | See derating diagram |
| Drive and function | monostable |
| Drive (polarity) | polarized |

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| | |
|-----------------------------------|--------------------|
| Typical input current at U_N | 21 mA |
| Input power dissipation for U_N | 0.5 W |
| Typical response time | ≤ 20 ms |
| Typical release time | ≤ 20 ms |
| Coil voltage | 24 V DC |
| Protective circuit | Freewheeling diode |
| Status display | LED (yellow) |

Output data

Switching

| | |
|---|---|
| Contact switching type | 5 N/O contacts, 1 N/C contact |
| Type of switch contact | Single contact |
| Contact material | AgSnO, hard gold-plated |
| Maximum switching voltage | 250 V AC 30 V DC |
| Minimum switching voltage | 10 V DC (5 mA) |
| Limiting continuous current | 6 A |
| Maximum inrush current | 35 A (20 ms) |
| Min. switching current | 5 mA (10 V DC) |
| Interrupting rating (ohmic load) max. | 144 W (24 V DC) 180 W (30 V DC) 1500 VA (250 V AC) |
| Force-guided contacts in accordance with EN 61810-3 | Type A |
| Utilization category CB Scheme (IEC 60947-5-1) | AC15, 2 A/240 V (N/O contact) DC13, 2 A/24 V (N/O contact) |

Connection data

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|----------------------------------|--|
| Connection method | Push-in connection |
| Stripping length | 8 mm |
| Conductor cross-section rigid | 0.2 mm ² ... 1.5 mm ² |
| Conductor cross-section flexible | 0.2 mm ² ... 1.5 mm ² 0.2 mm ² ... 1.5 mm ² (Ferrule with plastic sleeve) 0.2 mm ² ... 1.5 mm ² (Ferrule with plastic sleeve, two conductors on double terminal block) |
| Conductor cross-section AWG | 26 ... 16 (solid) 24 ... 16 (flexible) |

Dimensions

Item dimensions

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|--------|--------|
| Width | 21 mm |
| Height | 113 mm |
| Depth | 70 mm |

Material specifications

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|--|--------------|
| Flammability rating according to UL 94 | V0 (Housing) |
|--|--------------|

Environmental and real-life conditions

Ambient conditions

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|--|------------------------------|
| Degree of protection (Relay base) | IP20 (Relay base) |
| Degree of protection (Relay) | RT II (Relay) |
| Degree of protection (Installation location) | IP54 (Installation location) |
| Ambient temperature (operation) | -40 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Altitude | ≤ 2000 m |

Approvals

CE

| | |
|----------------|--------------|
| Identification | CE-compliant |
|----------------|--------------|

UL, USA/Canada

| | |
|----------------|-----------------------|
| Identification | UL/C-UL Listed UL 508 |
|----------------|-----------------------|

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 | EN 61810-1 |
|-----------------------|------------|

Mounting

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


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Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1732886>



cULus Listed

Approval ID: E172140

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Classifications

ECLASS

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

ETIM

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

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) |
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