

## Relay Module - RIF-0-RPT-24DC/21 - 2903370


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Pre-assembled relay module with push-in connection, consisting of: relay base with ejector and power contact relay. Contact type: 1 PDT. Input voltage: 24 V DC

RoHS

### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 STK   |
| GTIN                                 | <br>4 046356 731942 |
| GTIN                                 | 4046356731942   |
| Weight per Piece (excluding packing) | 28.000 g  |
| Custom tariff number                 | 85364110  |
| Country of origin                    | China   |

### Technical data

#### Note

|                         |   |
|-------------------------|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|

#### Dimensions

|        |        |
|--------|--------|
| Width  | 6.2 mm |
| Height | 93 mm  |
| Depth  | 78 mm  |

#### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)         | -40 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

#### Coil side

# Relay Module - RIF-0-RPT-24DC/21 - 2903370

## Technical data

### Coil side

|   |               |
|---|---------------|
| Nominal input voltage $U_N$               | 24 V DC       |
| Input voltage range in reference to $U_N$ | see diagram   |
| Typical input current at $U_N$            | 9 mA          |
| Typical response time                     | 5 ms          |
| Typical release time                      | 8 ms          |
| Coil voltage                              | 24 V DC       |
| Protective circuit                        | Damping diode |
| Operating voltage display                 | Yellow LED    |
| Power dissipation for nominal condition   | 0.22 W        |

### Contact side

|  |                        |
|--|------------------------|
| Contact type   | 1 PDT                  |
| Type of switch contact                                 | Single contact         |
| Contact material                                       | AgSnO                  |
| Maximum switching voltage                              | 250 V AC/DC            |
| Minimum switching voltage                              | 5 V (at 100 mA)        |
| Min. switching current                                 | 10 mA (at 12 V)        |
| Maximum inrush current                                 | 10 A (4 s)             |
| Limiting continuous current                            | 6 A                    |
| 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 in acc. with DIN VDE 0660/IEC 60947 | 2 A (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 input side

|                                  |  |
|----------------------------------|--|
| Connection name                  | Coil side                                    |
| Connection method                | Push-in connection                           |
| Stripping length                 | 8 mm   |
| Conductor cross section solid    | 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> |

## Relay Module - RIF-0-RPT-24DC/21 - 2903370

### Technical data

#### Connection data input side

|                             |           |
|-----------------------------|-----------|
| Conductor cross section AWG | 26 ... 16 |
|-----------------------------|-----------|

#### Connection data output side

|                                  |  |
|----------------------------------|--|
| Connection name                  | Contact side                                 |
| Connection method                | Push-in connection                           |
| Stripping length                 | 8 mm   |
| Conductor cross section solid    | 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> |
| Conductor cross section AWG      | 26 ... 16                                    |

#### General

|  |                                     |
|--|-------------------------------------|
| Test voltage relay winding/relay contact | 4 kV <sub>rms</sub> (50 Hz, 1 min.) |
| Operating mode                           | 100% operating factor               |
| Degree of protection                     | IP20 (Relay socket)                 |
|  | RT III (Relay)                      |
| Mechanical service life                  | Approx. 2x 10 <sup>7</sup> cycles   |
| Mounting position                        | any                                 |
| Assembly instructions                    | In rows with zero spacing           |

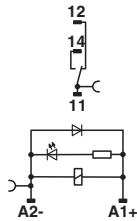
#### Standards and Regulations

|                          |                |
|--------------------------|----------------|
| Standards/regulations    | DIN EN 50178   |
| Rated insulation voltage | 250 V AC       |
|                          | 250 V AC       |
| Rated surge voltage      | 6 kV           |
| Insulation               | safe isolation |
| Degree of pollution      | 2              |
| Overvoltage category     | III            |

### Drawings

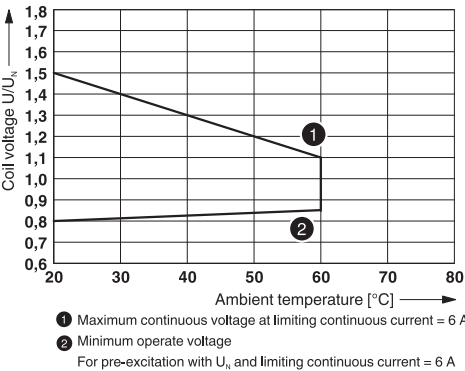
Relay Module - RIF-0-RPT-24DC/21 - 2903370

Circuit diagram



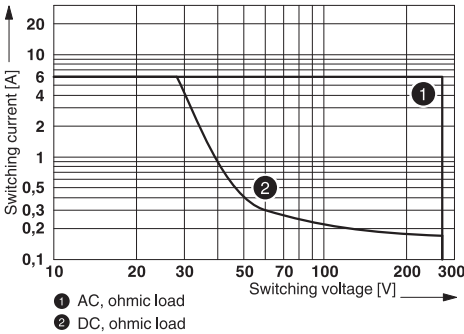
DC coils

Diagram

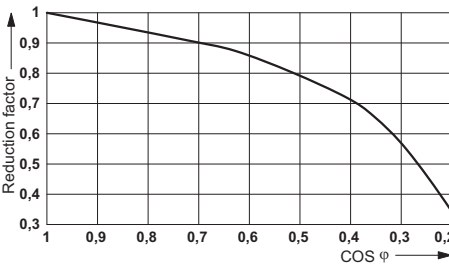


Operating voltage range

Diagram



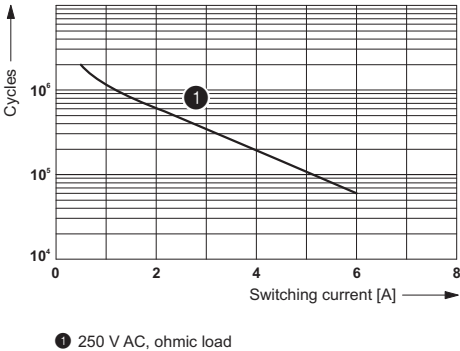
Diagram



Interrupting rating

Service life reduction factor

Diagram



Electrical service life

## Relay Module - RIF-0-RPT-24DC/21 - 2903370

### Articles in set

Single relay - REL-MR- 24DC/21 - 2961105



Plug-in miniature power relay, with power contact, 1 PDT, input voltage 24 V DC

Relay socket - RIF-0-BPT/21 - 2900958



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

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.0 | 27371601 |
| eCl@ss 5.1 | 27371601 |
| eCl@ss 6.0 | 27371601 |
| eCl@ss 7.0 | 27371601 |
| eCl@ss 8.0 | 27371601 |
| eCl@ss 9.0 | 27371601 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001437 |
| ETIM 3.0 | EC001437 |
| ETIM 4.0 | EC001437 |
| ETIM 5.0 | EC001437 |
| ETIM 6.0 | EC001437 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211917 |
| UNSPSC 7.0901 | 39121516 |
| UNSPSC 11     | 39121516 |
| UNSPSC 12.01  | 39121516 |
| UNSPSC 13.2   | 39122334 |

## Relay Module - RIF-0-RPT-24DC/21 - 2903370

### Approvals

#### Approvals

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#### Approvals






EAC / GL / LR / EAC / PRS

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#### Ex Approvals

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#### Approval details

|     |   |   |                          |
|-----|---|---|--------------------------|
| EAC |    |   | EAC-Zulassung            |
| GL  |   | <a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a> | 11247-14 HH              |
| LR  |  | <a href="http://www.lr.org/en">http://www.lr.org/en</a>                   | 15/20011                 |
| EAC |  |   | RU C-<br>DE.A*30.B.01082 |
| PRS |  | <a href="http://www.prs.pl/">http://www.prs.pl/</a>                       | TE/2108/880590/16        |

### Accessories

#### Accessories

#### End block

## Relay Module - RIF-0-RPT-24DC/21 - 2903370

### Accessories

End clamp - CLIPFIX 35 - 3022218



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

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### Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663



Insulating sleeve, color: white

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Insulating sleeve - MPS-IH RD - 0201676



Insulating sleeve, color: red

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Insulating sleeve - MPS-IH BU - 0201689



Insulating sleeve, color: blue

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Insulating sleeve - MPS-IH YE - 0201692



Insulating sleeve, color: yellow

## Relay Module - RIF-0-RPT-24DC/21 - 2903370

### Accessories

Insulating sleeve - MPS-IH GN - 0201702



Insulating sleeve, color: green

Insulating sleeve - MPS-IH GY - 0201728



Insulating sleeve, color: gray

Insulating sleeve - MPS-IH BK - 0201731



Insulating sleeve, color: black

### Jumper

Plug-in bridge - FBS 2-6 - 3030336



Plug-in bridge, pitch: 6.2 mm, width: 10.7 mm, number of positions: 2, color: red

Plug-in bridge - FBS 3-6 - 3030242



Plug-in bridge, pitch: 6.2 mm, width: 16.9 mm, number of positions: 3, color: red



## Relay Module - RIF-0-RPT-24DC/21 - 2903370

### Accessories

Plug-in bridge - FBS 4-6 - 3030255



Plug-in bridge, pitch: 6.2 mm, width: 23.1 mm, number of positions: 4, color: red

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Plug-in bridge - FBS 5-6 - 3030349



Plug-in bridge, pitch: 6.2 mm, width: 29.3 mm, number of positions: 5, color: red

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Plug-in bridge - FBS 10-6 - 3030271



Plug-in bridge, pitch: 6.2 mm, width: 60.3 mm, number of positions: 10, color: red

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Plug-in bridge - FBS 20-6 - 3030365



Plug-in bridge, pitch: 6.2 mm, width: 122.3 mm, number of positions: 20, color: red

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Plug-in bridge - FBS 50-6 - 3032224



Plug-in bridge, pitch: 6.2 mm, width: 308.3 mm, number of positions: 50, color: red

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## Relay Module - RIF-0-RPT-24DC/21 - 2903370

### Accessories

Plug-in bridge - FBS 2-6 BU - 3036932



Plug-in bridge, pitch: 6.2 mm, width: 10.7 mm, number of positions: 2, color: blue

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Plug-in bridge - FBS 3-6 BU - 3036945



Plug-in bridge, pitch: 6.2 mm, width: 16.9 mm, number of positions: 3, color: blue

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Plug-in bridge - FBS 4-6 BU - 3036958



Plug-in bridge, pitch: 6.2 mm, width: 23.1 mm, number of positions: 4, color: blue

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Plug-in bridge - FBS 5-6 BU - 3036961



Plug-in bridge, pitch: 6.2 mm, width: 29.3 mm, number of positions: 5, color: blue

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Plug-in bridge - FBS 10-6 BU - 3032198



Plug-in bridge, pitch: 6.2 mm, width: 60.3 mm, number of positions: 10, color: blue

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## Relay Module - RIF-0-RPT-24DC/21 - 2903370

### Accessories

Plug-in bridge - FBS 20-6 BU - 3032208



Plug-in bridge, pitch: 6.2 mm, width: 122.3 mm, number of positions: 20, color: blue

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Plug-in bridge - FBS 50-6 BU - 3032211



Plug-in bridge, pitch: 6.2 mm, width: 308.3 mm, number of positions: 50, color: blue

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Plug-in bridge - FBS 2-6 GY - 3032237



Plug-in bridge, pitch: 6.2 mm, width: 10.7 mm, number of positions: 2, color: gray

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Plug-in bridge - FBS 3-6 GY - 3032240



Plug-in bridge, pitch: 6.2 mm, width: 16.9 mm, number of positions: 3, color: gray

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Plug-in bridge - FBS 4-6 GY - 3032279



Plug-in bridge, pitch: 6.2 mm, width: 23.1 mm, number of positions: 4, color: gray

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## Relay Module - RIF-0-RPT-24DC/21 - 2903370

### Accessories

Plug-in bridge - FBS 5-6 GY - 3032266



Plug-in bridge, pitch: 6.2 mm, width: 29.3 mm, number of positions: 5, color: gray

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Plug-in bridge - FBS 10-6 GY - 3032253



Plug-in bridge, pitch: 6.2 mm, width: 60.3 mm, number of positions: 10, color: gray

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### Terminal marking

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

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### Test plug terminal block

Test plugs - MPS-MT - 0201744



Test plugs, with solder connection up to 1 mm<sup>2</sup> conductor cross section, color: silver

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### Spare parts

## Relay Module - RIF-0-RPT-24DC/21 - 2903370

### Accessories

Single relay - REL-MR- 24DC/21 - 2961105



Plug-in miniature power relay, with power contact, 1 PDT, input voltage 24 V DC

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Relay socket - RIF-0-BPT/21 - 2900958



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

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