

## Relay Module - RIF-0-RPT-12DC/ 1 - 2903362

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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 N/O contact. Input voltage: 12 V DC



### Key commercial data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| Weight per Piece (excluding packing) | 24.0 GRM |
| Custom tariff number                 | 85364110 |
| Country of origin                    | Germany  |

### Technical data

#### Dimensions

|        |        |
|--------|--------|
| Width  | 6.2 mm |
| Height | 93 mm  |
| Depth  | 66 mm  |

#### Ambient conditions

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

#### Coil side

|                                           |               |
|-------------------------------------------|---------------|
| Nominal input voltage $U_N$               | 12 V DC       |
| Input voltage range in reference to $U_N$ | (see diagram) |
| Nominal input current at $U_{IN}$         | 16 mA         |
| Typical response time                     | 5 ms          |
| Typical release time                      | 8 ms          |
| Operating voltage display                 | Yellow LED    |

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## Technical data

### Coil side

|                    |               |
|--------------------|---------------|
| Protective circuit | Damping diode |
|--------------------|---------------|

### Contact side

|                                                        |                        |
|--------------------------------------------------------|------------------------|
| Contact type                                           | 1 N/O 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)        |
| 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 | 1 A (24 V (DC13))      |
|                                                        | 3 A (230 V (AC 15))    |

### Connection data

|                                                                            |                      |
|----------------------------------------------------------------------------|----------------------|
| Connection method                                                          | Push-in connection   |
| Conductor cross section solid min.                                         | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max.                                         | 1.5 mm <sup>2</sup>  |
| Conductor cross section stranded min.                                      | 0.14 mm <sup>2</sup> |
| Conductor cross section stranded max.                                      | 1.5 mm <sup>2</sup>  |
| Conductor cross section stranded, with ferrule with plastic sleeve min.    | 0.14 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule with plastic sleeve max.    | 1.5 mm <sup>2</sup>  |
| Conductor cross section stranded, with ferrule without plastic sleeve min. | 0.14 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule without plastic sleeve max. | 1.5 mm <sup>2</sup>  |
| Conductor cross section AWG/kcmil min.                                     | 26                   |
| Conductor cross section AWG/kcmil max                                      | 16                   |
| Stripping length                                                           | 8 mm                 |

### 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. 2 x 10 <sup>7</sup> cycles  |
| Standards/regulations                    | DIN EN 50178                        |

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## Technical data

### General

|                          |                           |
|--------------------------|---------------------------|
|                          | IEC 62103                 |
| Rated insulation voltage | 250 V AC                  |
| Pollution degree         | 2                         |
| Surge voltage category   | III                       |
| Mounting position        | any                       |
| Assembly instructions    | In rows with zero spacing |

## Articles in set

Single relay - REL-MR- 12DC/21 - 2961150



Pluggable miniature relays, with power contact, 1 PDT, input voltage 12 V DC

Relay socket - RIF-0-BPT/1 - 2901873



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

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27371102 |
| eCl@ss 4.1 | 27371102 |
| eCl@ss 5.0 | 27371603 |
| eCl@ss 5.1 | 27371603 |
| eCl@ss 6.0 | 27371603 |
| eCl@ss 7.0 | 27371603 |
| eCl@ss 8.0 | 27371603 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001456 |
| ETIM 4.0 | EC001456 |

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## Classifications

ETIM

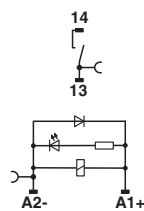
|          |          |
|----------|----------|
| ETIM 5.0 | EC001437 |
|----------|----------|

UNSPSC

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

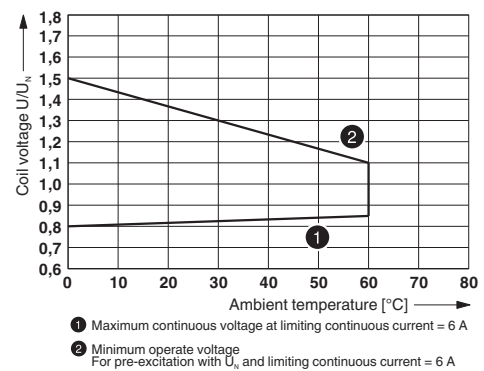
## Drawings

Circuit diagram



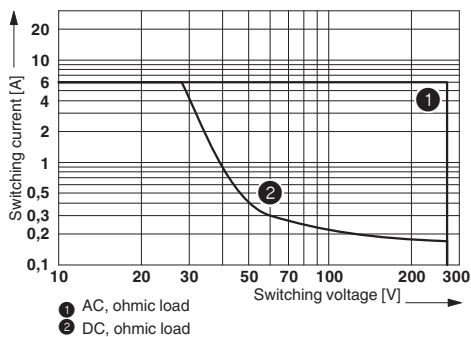
DC coils

Diagram



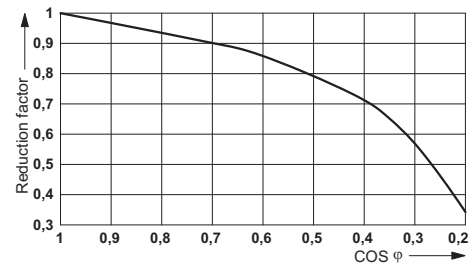
Operating voltage range

Diagram



Interrupting rating

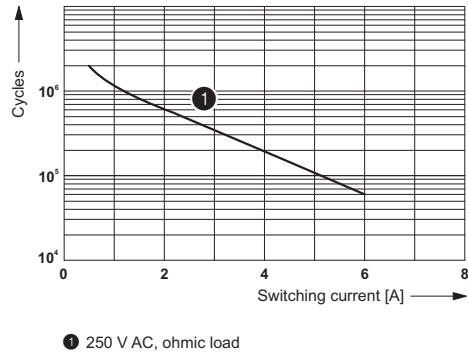
Diagram



Service life reduction factor

## Relay Module - RIF-0-RPT-12DC/ 1 - 2903362

Diagram



Electrical service life

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