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# Relay Module - RIF-2-RPT-LV-230AC/2X21 - 2903310

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Pre-assembled relay module with push-in connection, consisting of: relay base, power contact relay, plug-in display/suppressor module, and retaining bracket. Contact type: 2 PDTs. Input voltage: 230 V AC

The figure shows the 24 V DC version

## Key Commercial Data

|              |                 |
|--------------|-----------------|
| Packing unit | 10 STK          |
| GTIN         | 4 046356 732529 |

## Technical data

### Note

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

### Dimensions

|        |       |
|--------|-------|
| Width  | 31 mm |
| Height | 96 mm |
| Depth  | 75 mm |

### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)         | -40 °C ... 50 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

### Coil side

|   |                |
|---|----------------|
| Nominal input voltage $U_N$               | 230 V AC       |
| Input voltage range in reference to $U_N$ | see diagram    |
| Mains frequency                           | 50 Hz<br>60 Hz |
| Typical input current at $U_N$            | 6.5 mA         |
| Typical response time                     | 5 ms ... 15 ms |
| Typical release time range                | 5 ms ... 20 ms |
| Coil voltage                              | 230 V AC       |
| Protective circuit                        | Varistor       |
| Operating voltage display                 | Yellow LED     |

# Relay Module - RIF-2-RPT-LV-230AC/2X21 - 2903310

## Technical data

### Contact side

|  |                           |
|--|---------------------------|
| Contact type   | 2 PDT                     |
| Contact material                                       | AgNi                      |
| Maximum switching voltage                              | 250 V AC/DC               |
| Minimum switching voltage                              | 5 V (At 24 mA)            |
| Min. switching current                                 | 5 mA (at 24 V)            |
| Maximum inrush current                                 | 30 A (20 ms, N/O contact) |
| Limiting continuous current                            | 8.5 A (see diagram)       |
| Interrupting rating (ohmic load) max.                  | 204 W (at 24 V DC)        |
|  | 124 W (at 48 V DC)        |
|  | 108 W (at 60 V DC)        |
|  | 52 W (at 110 V DC)        |
|  | 48 W (at 220 V DC)        |
|  | 2125 VA (for 250 V AC)    |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 2 A (at 24 V, DC13)       |
|  | 0.22 A (at 120 V, DC13)   |
|  | 0.11 A (at 250 V, DC13)   |
|  | 3 A (at 120 V, AC15)      |
|  | 1.5 A (at 240 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>                                   |
|                                  | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrule with plastic sleeve)     |
|                                  | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrules without plastic sleeve) |
| 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>                                   |
|                                  | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrule with plastic sleeve)     |
|                                  | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrules without plastic sleeve) |
| Conductor cross section AWG      | 26 ... 16  |

### General

|  |                                       |
|--|---------------------------------------|
| Test voltage relay winding/relay contact | 2.5 kV <sub>rms</sub> (50 Hz, 1 min.) |
| Test voltage relay contact/relay contact | 2.5 kV <sub>rms</sub> (50 Hz, 1 min.) |

# Relay Module - RIF-2-RPT-LV-230AC/2X21 - 2903310

## Technical data

### General

|                          |                                |
|--------------------------|--------------------------------|
| Operating mode           | 100% operating factor          |
| Degree of protection     | IP20 (Relay socket)            |
|                          | RT I (Relay)                   |
| Mechanical service life  | Approx. $2 \times 10^7$ cycles |
| Standards/regulations    | DIN EN 50178                   |
|                          | IEC 62103                      |
| Rated insulation voltage | 250 V AC                       |
| Degree of pollution      | 2                              |
| Overvoltage category     | III                            |
| Mounting position        | any                            |
| Assembly instructions    | In rows with zero spacing      |

### Standards and Regulations

|                                  |                  |
|----------------------------------|------------------|
| Connection in acc. with standard | CSA              |
| Standards/regulations            | DIN EN 50178     |
|                                  | IEC 62103        |
| Rated insulation voltage         | 250 V AC         |
| Insulation                       | Basic insulation |
| Degree of pollution              | 2                |
| Overvoltage category             | III              |

## Articles in set

### Relay socket - RIF-2-BPT/4X21 - 2900934



RIF-2... relay base, for industrial relay with 2 or 4 PDTs, push-in connection, plug-in option for input/suppressor modules, for mounting on NS 35/7,5

### Single relay - REL-IR2/L-230AC/2X21 - 2903668



Plug-in industrial relay with power contacts, 2 PDTs, test key, status LED, mechanical switch position indicator, input voltage: 230 V AC

# Relay Module - RIF-2-RPT-LV-230AC/2X21 - 2903310

## Articles in set

Plug-in module - RIF-V-120-230 UC - 2900948



Plug-in module, for mounting on RIF-1, RIF-2, RIF-3, and RIF-4, with varistor, input voltage: 120 - 230 V AC/DC  $\pm 20\%$

Retaining bracket - RIF-RH-2 - 2900954



Relay retaining bracket, with ejector function and holder for marking material, suitable for RIF-2 relay base, for industrial relay

## 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 | 27371601 |
| eCl@ss 9.0 | 27371601 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001456 |
| ETIM 4.0 | EC001456 |
| ETIM 5.0 | EC001437 |

### UNSPSC

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

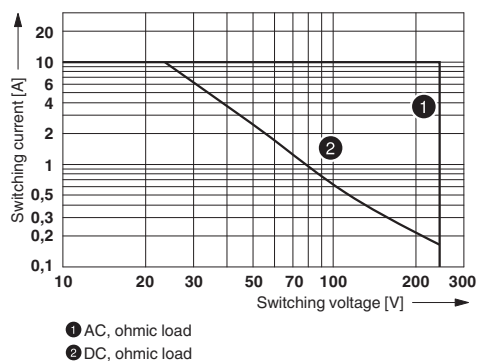
## Approvals

### Approvals

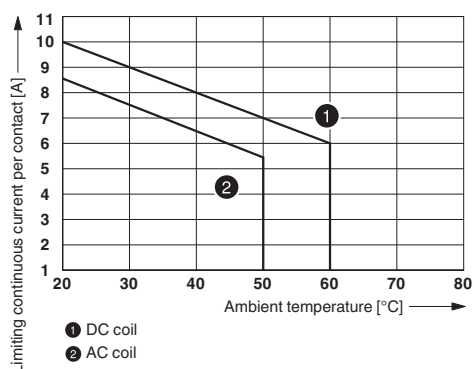


# Relay Module - RIF-2-RPT-LV-230AC/2X21 - 2903310

Diagram

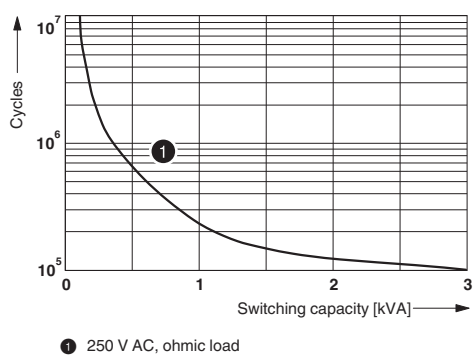


Diagram



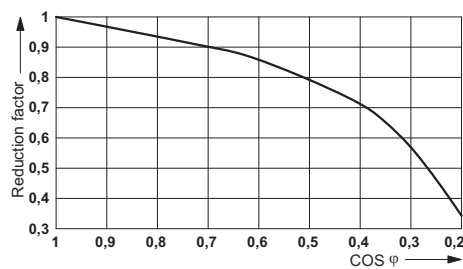
Interrupting rating

Diagram



Contact derating

Diagram



Electrical service life

Service life reduction factor

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|--|---------|-------------------------|----------------------------|
| Pre-assembled relay module with push-in connection, consisting of: relay base, power contact relay, plug-in display/suppressor module, and retaining bracket.<br>Contact type: 2 PDTs. Input voltage: 230 V AC | 2903310 | RIF-2-RPT-LV-230AC/2X21 | <a href="#">Buy on EAN</a> |