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## Solid-state relay module - RIF-0-OPT-24DC/230AC/1 - 2905295

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Pre-assembled solid-state relay module with push-in connection, consisting of: relay base with ejector and plug-in miniature solid-state relay. Input voltage: 24 V DC. Output: 24 - 253 V AC/0.75 A



### Key Commercial Data

|              |                 |
|--------------|-----------------|
| Packing unit | 10 STK          |
| GTIN         | 4 046356 945431 |

### 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  | 66 mm  |

#### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)         | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Degree of protection                    | IP20             |

#### Input data

|  |                     |
|--|---------------------|
| "0" signal switching threshold in reference to $U_C$ | < 0.4               |
| "1" signal switching threshold in reference to $U_C$ | > 0.8               |
| Typical response time                                | 10 ms               |
| Typical turn-off time                                | 10 ms               |
| Status display                                       | Yellow LED          |
| Type of protection                                   | Free-wheeling diode |

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## Technical data

### Input data

|                        |       |
|------------------------|-------|
| Transmission frequency | 10 Hz |
|------------------------|-------|

### Output data

|  |   |
|--|---|
| Output voltage range                             | 24 V AC ... 253 V AC (50/60 Hz)             |
| Limiting continuous current                      | 0.75 A (see derating curve)                 |
| Maximum inrush current                           | 30 A (10 ms)                                |
| Min. load current                                | 10 mA                                       |
| Leakage current                                  | 1 mA (in off state)                         |
| Surge current                                    | 30 A AC (tp = 20 ms, at 25°C)               |
| Max. load value                                  | 4.5 A <sup>2</sup> s (tp = 10 ms, at 25 °C) |
| Surge voltage protection                         | > 275 V                                     |
| Voltage drop at max. limiting continuous current | < 1 V                                       |
| Output circuit                                   | 2-wire, zero voltage switch                 |
| Type of protection                               | RCV circuit                                 |

### Connection data, input side

|                                  |  |
|----------------------------------|--|
| Connection name                  | Input side                                   |
| Connection method                | Push-in connection                           |
| 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                                    |

### Connection data, output side

|                                  |  |
|----------------------------------|--|
| Connection name                  | Output side                                  |
| Connection method                | Push-in connection                           |
| 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 input/output | 2.5 kV <sub>rms</sub> (50 Hz, 1 min.)                            |
| Mounting position         | any  |
| Assembly instructions     | In rows with zero spacing  |
| Operating mode            | 100% operating factor  |
| Designation               | Air clearances and creepage distances between the power circuits |
| Standards/regulations     | DIN EN 50178   |
| Rated insulation voltage  | 260 V AC   |
| Degree of pollution       | 2  |
| Overvoltage category      | III  |

### Standards and Regulations

|                       |  |
|-----------------------|--|
| Designation           | Air clearances and creepage distances between the power circuits |
| Standards/regulations | DIN EN 50178   |

# Solid-state relay module - RIF-0-OPT-24DC/230AC/1 - 2905295

## Technical data

### Standards and Regulations

|                          |                  |
|--------------------------|------------------|
| Rated insulation voltage | 260 V AC         |
| Insulation               | Basic insulation |
| Degree of pollution      | 2                |
| Overvoltage category     | III              |

## Articles in set

### Miniature solid-state relay - OPT-24DC/230AC/ 1 - 2967950



Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 24 V DC, output: 24 - 253 V AC/0.75 A

### 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 4.1 | 27371102 |
| eCl@ss 5.1 | 27371603 |
| eCl@ss 6.0 | 27371603 |
| eCl@ss 8.0 | 27371604 |

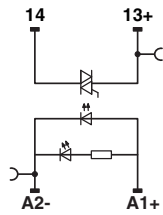
### ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC002055 |
| ETIM 5.0 | EC001504 |

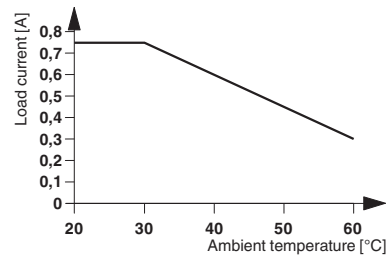
## Drawings

## Solid-state relay module - RIF-0-OPT-24DC/230AC/1 - 2905295

Circuit diagram



Diagram



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| Pre-assembled solid-state relay module with push-in connection, consisting of: relay base with ejector and plug-in miniature solid-state relay.<br>Input voltage: 24 V DC. Output: 24 - 253 V AC/0.75 A | 2905295 | RIF-0-<br>OPT-24DC/230AC/1 | <a href="#">Buy on EAN</a> |