

## Relay Module - PR2-RSC3-LDP-24DC/4X21AU - 2834724

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Preassembled relay modules with screw connection, consisting of: Relay socket, industrial relay with integrated LED, free-wheeling diode and engage/disengage manual actuate lever, and retaining bracket. Input voltage: 24 V DC, four PDTs with gold-plated contacts, 5 A

The figure shows the 24 V DC version

### Why buy this product

- ✓ With DC types, freewheeling diode is integrated in relay
- ✓ Relay with detectable manual operation and status LED
- ✓ Mechanical switch position indicator
- ✓ 4 PDT types with multi-layer gold contacts
- ✓ Logical contact arrangement thanks to 1/3-level relay base



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 5 STK                                                                                                   |
| Minimum order quantity               | 5 STK                                                                                                   |
| GTIN                                 | <br>4 046356 044554 |
| GTIN                                 | 4046356044554                                                                                           |
| Weight per Piece (excluding packing) | 115.270 g                                                                                               |
| Custom tariff number                 | 85364900                                                                                                |
| Country of origin                    | Japan                                                                                                   |

### Technical data

#### Note

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

#### Dimensions

|        |         |
|--------|---------|
| Width  | 27 mm   |
| Height | 78.5 mm |
| Depth  | 86 mm   |

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## Technical data

### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (operation)         | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C |

### Coil side

|                                           |               |
|-------------------------------------------|---------------|
| Nominal input voltage $U_N$               | 24 V DC       |
| Input voltage range in reference to $U_N$ | see diagram   |
| Typical input current at $U_N$            | 38 mA         |
| Typical response time                     | 13 ms         |
| Typical release time                      | 14 ms         |
| Protective circuit                        | Damping diode |
| Operating voltage display                 | Green LED     |
| Power dissipation for nominal condition   | 0.91 W        |

### Contact side

|                                       |                        |
|---------------------------------------|------------------------|
| Contact type                          | 4 PDTs                 |
| Type of switch contact                | Single contact         |
| Contact material                      | AgNi, hard gold-plated |
| Maximum switching voltage             | 250 V AC/DC            |
| Minimum switching voltage             | 1 V                    |
| Min. switching current                | 1 mA                   |
| Maximum inrush current                | 12 A (15 ms)           |
| Limiting continuous current           | 5 A                    |
| Interrupting rating (ohmic load) max. | 1250 VA (for 250 V AC) |
|                                       | 120 W (at 24 V DC)     |
|                                       | 110 W (at 48 V DC)     |
|                                       | 78 W (at 60 V DC)      |
|                                       | 55 W (at 110 V DC)     |
|                                       | 77 W (at 220 V DC)     |

### General

|                                          |                           |
|------------------------------------------|---------------------------|
| Test voltage relay winding/relay contact | 2 kV (50 Hz, 1 min.)      |
| Test voltage relay contact/relay contact | 2 kV (50 Hz, 1 min.)      |
| Operating mode                           | 100% operating factor     |
| Degree of protection                     | RT I (Relay)              |
| Mechanical service life                  | $5 \times 10^7$ cycles    |
| Mounting position                        | any                       |
| Assembly instructions                    | In rows with zero spacing |

### Connection data input side

|                               |                                              |
|-------------------------------|----------------------------------------------|
| Connection name               | Coil side                                    |
| Connection method             | Screw connection                             |
| Stripping length              | 7 mm                                         |
| Conductor cross section solid | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |

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## Technical data

### Connection data input side

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| Conductor cross section flexible | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section AWG      | 26 ... 14                                    |

### Connection data output side

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| Connection name                  | Contact side                                 |
| Connection method                | Screw connection                             |
| Stripping length                 | 7 mm                                         |
| Conductor cross section solid    | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section flexible | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section AWG      | 26 ... 14                                    |

### Standards and Regulations

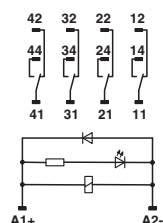
|                       |           |
|-----------------------|-----------|
| Standards/regulations | IEC 60664 |
|                       | EN 50178  |
|                       | IEC 62103 |
| Degree of pollution   | 2         |
| Overvoltage category  | II        |

### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| China RoHS | Environmentally Friendly Use Period = 50                                                            |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

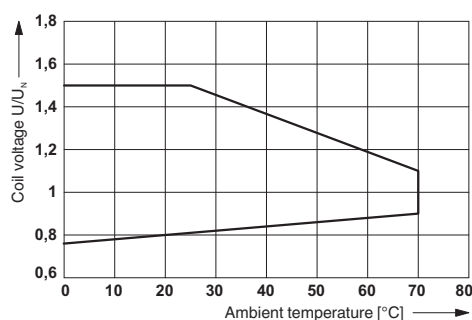
## Drawings

Circuit diagram



DC coils

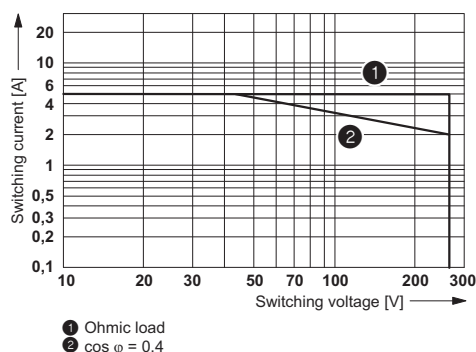
Diagram



Operating voltage range of relay  $T_u = T_{coil}$

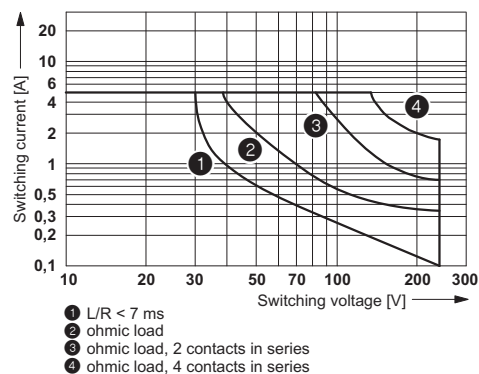
## Relay Module - PR2-RSC3-LDP-24DC/4X21AU - 2834724

Diagram



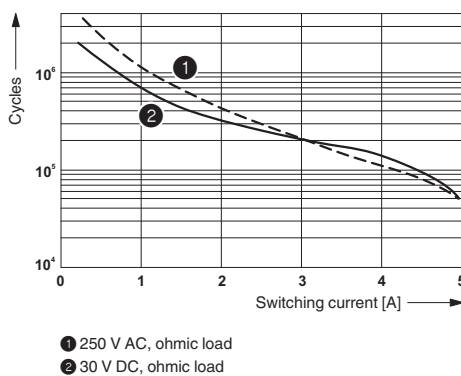
AC interrupting rating

Diagram



DC interrupting rating

Diagram



Electrical service life

### Articles in set

Relay socket - PR2-BSC3/4X21 - 2833576



Relay socket PR2-B, for industrial relay REL-IR with 2 or 4 PDT, 1/3-level version, screw connections, connection facility for input/interference suppression modules, for mounting on NS 35/7.5

Single relay - REL-IR/LDP- 24DC/4X21AU - 2834096



Pluggable industrial relays with power contacts and additional hard gold plating, 4 PDT, test button, status LED, free-wheeling diode, mechanical switch position indicator, polarity A1+, A2-, coil voltage: 24 V DC

## Relay Module - PR2-RSC3-LDP-24DC/4X21AU - 2834724

### Articles in set

Retaining bracket - EL2-P35 - 2833592



Relay retaining bracket, with eject function and integrated equipment marking area (8 x 25 mm), to suit relay socket PR2, for 35 mm high industrial relay

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### 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   | 30211916 |
| UNSPSC 7.0901 | 39121515 |
| UNSPSC 11     | 39121515 |
| UNSPSC 12.01  | 39121515 |
| UNSPSC 13.2   | 39122334 |

### Approvals

#### Approvals

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Approvals

EAC / EAC

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Ex Approvals

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#### Approval details

## Relay Module - PR2-RSC3-LDP-24DC/4X21AU - 2834724

### Approvals

|     |                                                                                   |                     |
|-----|-----------------------------------------------------------------------------------|---------------------|
| EAC |  | 7500651.22.01.00244 |
|-----|-----------------------------------------------------------------------------------|---------------------|

|     |                                                                                   |               |
|-----|-----------------------------------------------------------------------------------|---------------|
| EAC |  | EAC-Zulassung |
|-----|-----------------------------------------------------------------------------------|---------------|