

## Single relay - REL-PR1-24DC/1/MB - 2908040

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Plug-in high-power relay with power contacts, specifically for switching high DC loads, 1 N/O contact, blowout magnet, coil voltage: 24 V DC



### Key Commercial Data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 STK    |
| Weight per Piece (excluding packing) | 80.000 g |
| Custom tariff number                 | 85364190 |
| Country of origin                    | Poland   |

### Technical data

#### Dimensions

|        |         |
|--------|---------|
| Width  | 38.6 mm |
| Height | 45.5 mm |
| Depth  | 36.1 mm |

#### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)         | -40 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °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 $U_N$            | 70 mA       |
| Typical response time                     | 20 ms       |
| Typical release time                      | 15 ms       |

#### Contact side

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## Technical data

### Contact side

|  |                        |
|--|------------------------|
| Contact type   | 1 N/O contact          |
| Type of switch contact                                 | Single contact         |
| Contact material                                       | AgNi                   |
| Maximum switching voltage                              | 440 V AC               |
|  | 350 V DC               |
| Minimum switching voltage                              | 5 V (At 24 mA)         |
| Min. switching current                                 | 5 mA (at 24 V)         |
| Maximum inrush current                                 | 50 A (20 ms)           |
|  | 30 A (4 s)             |
| Limiting continuous current                            | 16 A                   |
| Interrupting rating (ohmic load) max.                  | 384 W (at 24 V DC)     |
|  | 768 W (at 48 V DC)     |
|  | 930 W (at 60 V DC)     |
|  | 1650 W (at 110 V DC)   |
|  | 2640 W (at 220 V DC)   |
|  | 4000 VA (for 250 V AC) |
| Switching capacity min.                                | 120 mW                 |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 1 A (at 220 V, DC13)   |
|  | 1.5 A (at 240 V, AC15) |

### General

|  |                                |
|--|--------------------------------|
| Test voltage relay winding/relay contact | 2.5 kV                         |
| Operating mode                           | 100% operating factor          |
| Degree of protection                     | RT I                           |
| Mechanical service life                  | Approx. $2 \times 10^7$ cycles |
| Degree of pollution                      | 3                              |
| Overvoltage category                     | III                            |
| Designation                              | Standards/regulations          |
| Standards/regulations                    | IEC 61810                      |
| Mounting position                        | any                            |

### Standards and Regulations

|                       |                       |
|-----------------------|-----------------------|
| Rated surge voltage   | 4 kV                  |
| Degree of pollution   | 3                     |
| Overvoltage category  | III                   |
| Designation           | Standards/regulations |
| Standards/regulations | IEC 61810             |

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## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27371104 |
| eCl@ss 4.1 | 27371104 |
| 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 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211916 |
| UNSPSC 7.0901 | 39121515 |
| UNSPSC 11     | 39121515 |
| UNSPSC 12.01  | 39121515 |
| UNSPSC 13.2   | 39121515 |

## Approvals

### Approvals

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Approvals

EAC

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Ex Approvals

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### Approval details

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

## Single relay - REL-PR1-24DC/1/MB - 2908040

### Accessories

#### Additional products

Relay socket - RIF-4-BPT/3X21 - 2900961



RIF-4... relay base, for high-power relay with 2 or 3 PDTs or 3 N/O contacts, push-in connection, plug-in option for input/suppressor modules, for mounting on NS 35/7,5