# Single relay - REL-OR/LDP-220DC/1/MB - 2901904

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The figure shows the 24 V DC version

Plug-in octal relay with power contacts, specially designed for switching high DC loads, 1 N/O contact, detectable manual operation, status LED, blowout magnet, coil voltage: 220 V DC

## Key commercial data

| | |
|---|---|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 85.8 GRM |
| Custom tariff number | 85364900 |
| Country of origin | India |

## Technical data

### Dimensions

| | |
|---|---|
| Width | 35 mm |
| Height | 35 mm |
| Depth | 58.5 mm |

### Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -40 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |

### Coil side

| | |
|---|---|
| Nominal input voltage $U_N$ | 220 V DC |
| Input voltage range in reference to $U_N$ | see diagram |
| Typical input current at $U_N$ | 7 mA |
| Typical response time | 20 ms |
| Typical release time | 30 ms |
| Coil resistance | 36.1 kΩ ±10 % |

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## Technical data

### Coil side

| | |
|---|---|
| Operating voltage display | Yellow LED |
| Protective circuit | Damping diode |

### Contact side

| | |
|---|---|
| Contact type | Single contact, 1 N/O contact (series connection, 2 N/O contacts) with blowout magnet |
| Contact material | AgNi |
| Maximum switching voltage | 250 V AC |
| | 220 V DC |
| Minimum switching voltage | 10 V (at 10 mA) |
| Maximum inrush current | 30 A (20 ms) |
| Min. switching current | 10 mA (at 10 V) |
| Limiting continuous current | 10 A |
| Interrupting rating (ohmic load) max. | 2500 VA (for 250 V AC) |
| Switching capacity in acc. with DIN VDE 0660/IEC 60947 | 3.6 A (at 24 V, DC13) |
| | 3.6 A (at 110 V, DC13) |
| | 2 A (at 220 V, DC13) |
| | 6 A (at 24 V, AC15) |
| | 6 A (at 120 V, AC15) |
| | 6 A (at 250 V, AC15) |

### General

| | |
|---|---|
| Test voltage relay winding/relay contact | 2.5 $kV_{rms}$ (50 Hz, 1 min.) |
| Operating mode | 100% operating factor |
| Degree of protection | RT I |
| Mechanical service life | Approx. $10^7$ cycles |
| Standards/regulations | IEC 61810 |
| | EN 60947 |
| Pollution degree | 3 |
| Surge voltage category | III |
| Mounting position | any |
| Assembly instructions | On relay base PR3 |

## Classifications

### eCl@ss

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

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## Classifications

### eCl@ss

| | |
|---|---|
| eCl@ss 5.0 | 27371001 |
| eCl@ss 5.1 | 27371001 |
| eCl@ss 6.0 | 27371001 |
| eCl@ss 7.0 | 27371001 |
| eCl@ss 8.0 | 27371001 |

### ETIM

| | |
|---|---|
| ETIM 3.0 | EC000196 |
| ETIM 4.0 | EC000196 |
| ETIM 5.0 | EC000196 |

### UNSPSC

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

## Approvals

### Approvals

Approvals

UL Recognized / cUL Recognized / UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approvals submitted

### Approval details

UL Recognized

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## Approvals

cUL Recognized

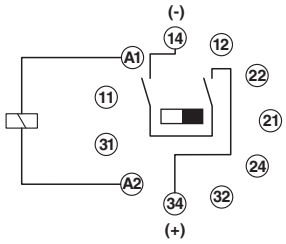
UL Recognized

cUL Recognized

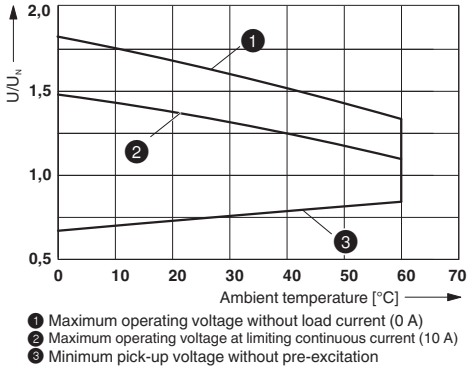
cULus Recognized

## Drawings

Circuit diagram




Diagram

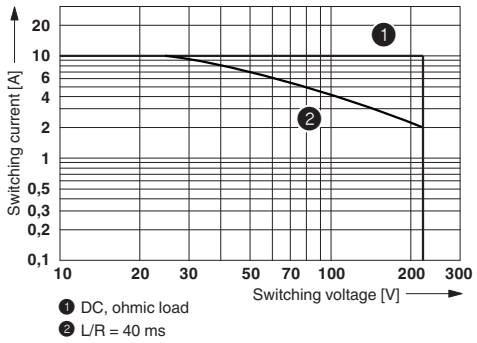



1 Maximum operating voltage without load current (0 A)
2 Maximum operating voltage at limiting continuous current (10 A)
3 Minimum pick-up voltage without pre-excitation

Operating voltage range of the relay

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Diagram




DC interrupting rating

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