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Single relay - REL-PR2- 24AC/2X21 - 2903699

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Plug-in high-power relay with power contacts, 2 PDTs, coil voltage: 24 V AC

The figure shows version REL-PR2-24DC/2X21

Key Commercial Data

| | |
|--------------|---------------------|
| Packing unit | 1 STK |
| GTIN | 4 046356 759113 |

Technical data

Dimensions

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

Ambient conditions

| | |
|---|------------------|
| Ambient temperature (operation) | -40 °C ... 55 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

Coil side

| | |
|---|--|
| Nominal input voltage U_N | 24 V AC |
| Input voltage range in reference to U_N | see diagram |
| Mains frequency | 50 Hz |
| | 60 Hz |
| Typical input current at U_N | 116 mA |
| Typical response time | 5 ms ... 25 ms (depending on phase relation) |
| Typical release time range | 5 ms ... 20 ms (depending on phase relation) |
| Status display | Yellow LED |

Contact side

| | |
|---------------------------|----------|
| Contact type | 2 PDT |
| Contact material | AgNi |
| Maximum switching voltage | 440 V AC |

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Technical data

Contact side

| | |
|--|--|
| | 250 V DC |
| Minimum switching voltage | 10 V (At 24 mA) |
| Min. switching current | 10 mA (at 24 V) |
| Maximum inrush current | 50 A (20 ms, N/O contact) |
| Limiting continuous current | 16 A |
| Interrupting rating (ohmic load) max. | 384 W (at 24 V DC) |
| | 124 W (at 48 V DC) |
| | 108 W (at 60 V DC) |
| | 52 W (at 110 V DC) |
| | 70 W (at 220 V DC) |
| | 4000 VA (for 250 V AC) |
| | 4000 VA (At 440 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) |
| Single-phase motor load | 800 W (at 230 V, AC3) |
| Motor load according to UL 508 | 1/3 HP, 120 V AC (single-phase AC motor) |
| | 1/2 HP, 240 V AC (single-phase AC motor) |

General

| | |
|--|--|
| Test voltage relay winding/relay contact | 2.5 kV _{rms} (50 Hz, 1 min.) |
| Test voltage relay contact/relay contact | 2.5 kV _{rms} (50 Hz, 1 min.) |
| Test voltage PDT/PDT | 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 |
| Designation | Air clearances and creepage distances between the power circuits |
| Standards/regulations | IEC 60664 |
| Rated insulation voltage | 250 V AC |
| Degree of pollution | 3 |
| Overvoltage category | III |
| Designation | Standards/regulations |
| Standards/regulations | IEC 61810 |
| Mounting position | any |

Standards and Regulations

| | |
|----------------------------------|--|
| Connection in acc. with standard | CSA |
| Designation | Air clearances and creepage distances between the power circuits |
| Standards/regulations | IEC 60664 |

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Technical data

Standards and Regulations

| | |
|--------------------------|-----------------------|
| Rated insulation voltage | 250 V AC |
| Insulation | Basic insulation |
| Degree of pollution | 3 |
| Overvoltage category | III |
| Designation | Standards/regulations |
| Standards/regulations | IEC 61810 |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27371104 |
| eCl@ss 4.1 | 27371104 |
| eCl@ss 5.0 | 27371001 |
| eCl@ss 5.1 | 27371001 |
| eCl@ss 6.0 | 27371001 |
| eCl@ss 7.0 | 27371001 |
| eCl@ss 8.0 | 27371601 |
| eCl@ss 9.0 | 27371601 |

ETIM

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

Approvals

CSA / UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

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Approvals

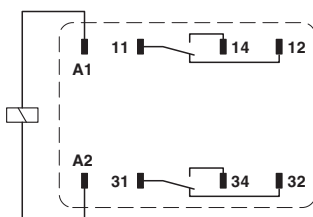
Approvals submitted

Approval details

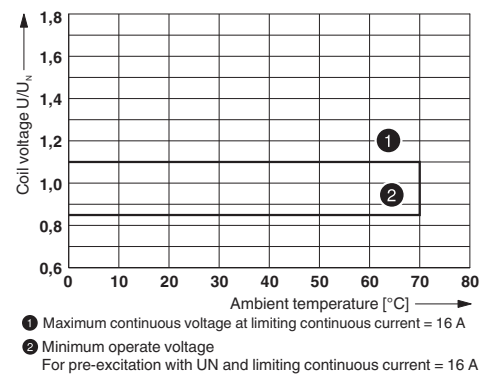
| |
|------------------|
| CSA |
| UL Recognized |
| cUL Recognized |
| EAC |
| cULus Recognized |

Drawings

Circuit diagram



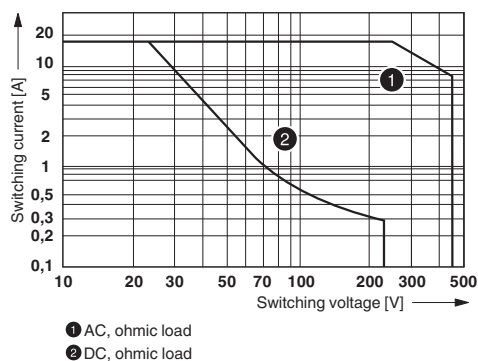
Diagram



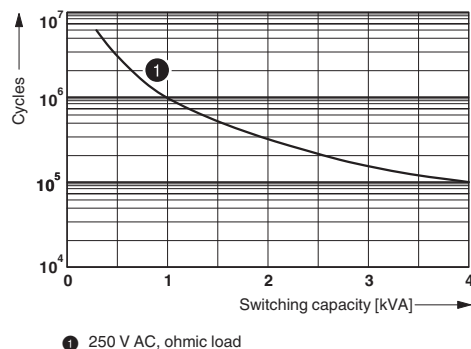
Operating voltage range

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Diagram



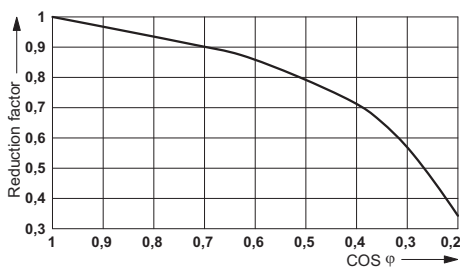
Diagram



Interrupting rating

Electrical service life

Diagram



Service life reduction factor

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