

Relay Module - PR1-RSC3-LV- 24AC/2X21 - 2834494

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Fully mounted relay modules with screw connection, consisting of: Relay socket plug-in miniature power relay with power contacts, plug-in display/interference suppression module and relay retaining bracket. Input voltage: 24 V AC, contacts: 2 PDT, 8 A

Product Features

- Safe isolation between coil and contact side
- Operational reliability thanks to sealed relay
- Logical contact arrangement thanks to 1/3-level relay base

Key commercial data

| | |
|-------------------------|---------------|
| package_quantity | 5 |
| GTIN | 4046356044387 |

Technical data

Note:

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

Dimensions

| | |
|---------------|---------|
| Width | 16 mm |
| Height | 78.5 mm |
| Depth | 71 mm |

Ambient conditions

| | |
|--|------------------|
| Ambient temperature (operation) | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -25 °C ... 85 °C |

Coil side

| | |
|---|------------------|
| Nominal input voltage U_N | 24 V AC |
| Nominal input current at U_{IN} | 34 mA (at 50 Hz) |
| Nominal input current at U_{IN} | 26 mA (At 60 Hz) |
| Typical response time | 3 ms ... 12 ms |
| Typical release time range | 1.5 ms ... 14 ms |
| Operating voltage display | Yellow LED |
| Protective circuit | Varistor |

Contact side

| | |
|---------------------|-------|
| Contact type | 2 PDT |
|---------------------|-------|

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Technical data

Contact side

| | |
|--|-----------------------|
| Contact material | AgNi |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 5 V (at 10 mA) |
| Maximum inrush current | 15 A (300 ms) |
| Min. switching current | 10 mA (At 5 V) |
| Limiting continuous current | 8 A |
| Interrupting rating (ohmic load) max. | 2000 W (for 250 V AC) |
| Interrupting rating (ohmic load) max. | 44 W (at 110 V DC) |
| Interrupting rating (ohmic load) max. | 60 W (at 220 V DC) |
| Interrupting rating (ohmic load) max. | 190 W (at 24 V DC) |
| Interrupting rating (ohmic load) max. | (At 440 V AC) |
| Interrupting rating (ohmic load) max. | 85 W (at 48 V DC) |
| Interrupting rating (ohmic load) max. | 60 W (at 60 V DC) |

General

| | |
|---|----------------------------|
| Test voltage relay winding/relay contact | 4 kV (50 Hz, 1 min.) |
| Test voltage relay contact/relay contact | 2.5 kV (50 Hz, 1 min.) |
| Operating mode | 100% operating factor |
| Mechanical service life | 3 x 10 ⁷ cycles |
| Standards/regulations | IEC 60664 |
| Standards/regulations | EN 50178 |
| Standards/regulations | IEC 62103 |
| Pollution degree | 3 |
| Surge voltage category | III |
| Mounting position | Any |
| Assembly instructions | In rows with zero spacing |

Connection data

| | |
|---|----------------------|
| Connection method | Screw connection |
| Conductor cross section solid min. | 0.14 mm ² |
| Conductor cross section solid max. | 2.5 mm ² |
| Conductor cross section stranded min. | 0.14 mm ² |
| Conductor cross section stranded max. | 2.5 mm ² |
| Conductor cross section AWG/kcmil min. | 26 |
| Conductor cross section AWG/kcmil max | 14 |
| Stripping length | 8 mm |
| Screw thread | M3 |

classifications

eCl@ss

| | |
|-------------------|----------|
| eCl@ss 4.0 | 27371102 |
|-------------------|----------|

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classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.1 | 27371102 |
| eCl@ss 5.0 | 27371603 |
| eCl@ss 5.1 | 27371603 |
| eCl@ss 6.0 | 27371603 |
| eCl@ss 7.0 | 27371603 |
| eCl@ss 8.0 | 27371603 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC001456 |
| ETIM 3.0 | EC001456 |
| ETIM 4.0 | EC001456 |
| ETIM 5.0 | EC001456 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211917 |
| UNSPSC 7.0901 | 39121516 |
| UNSPSC 11 | 39121516 |
| UNSPSC 12.01 | 39121516 |
| UNSPSC 13.2 | 39121516 |

accessories

Marking material

MP 1 - 2833631



Device marking

EML (15X6) R YE - 0819288



Bridge

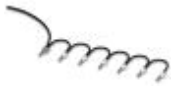
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accessories

DB 50- 90 BU - 2821180



DB 50- 90 BK - 2820916



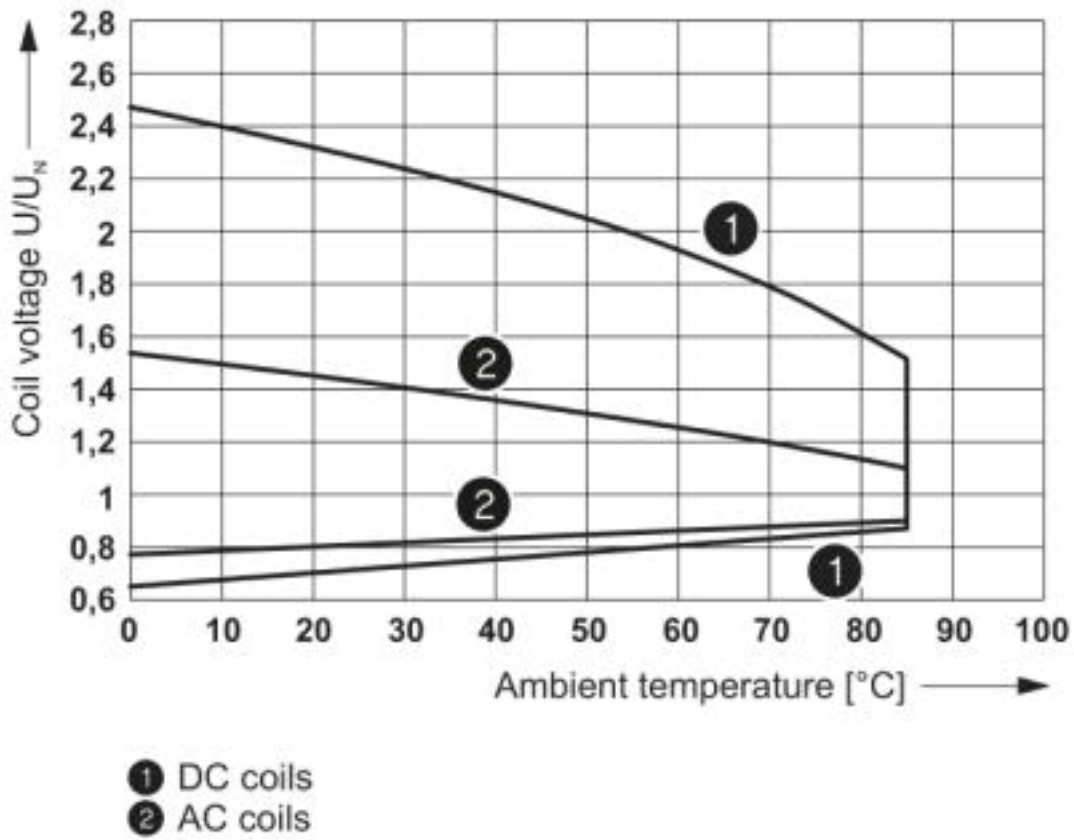
DB 50- 90 GY - 2820929



Drawings

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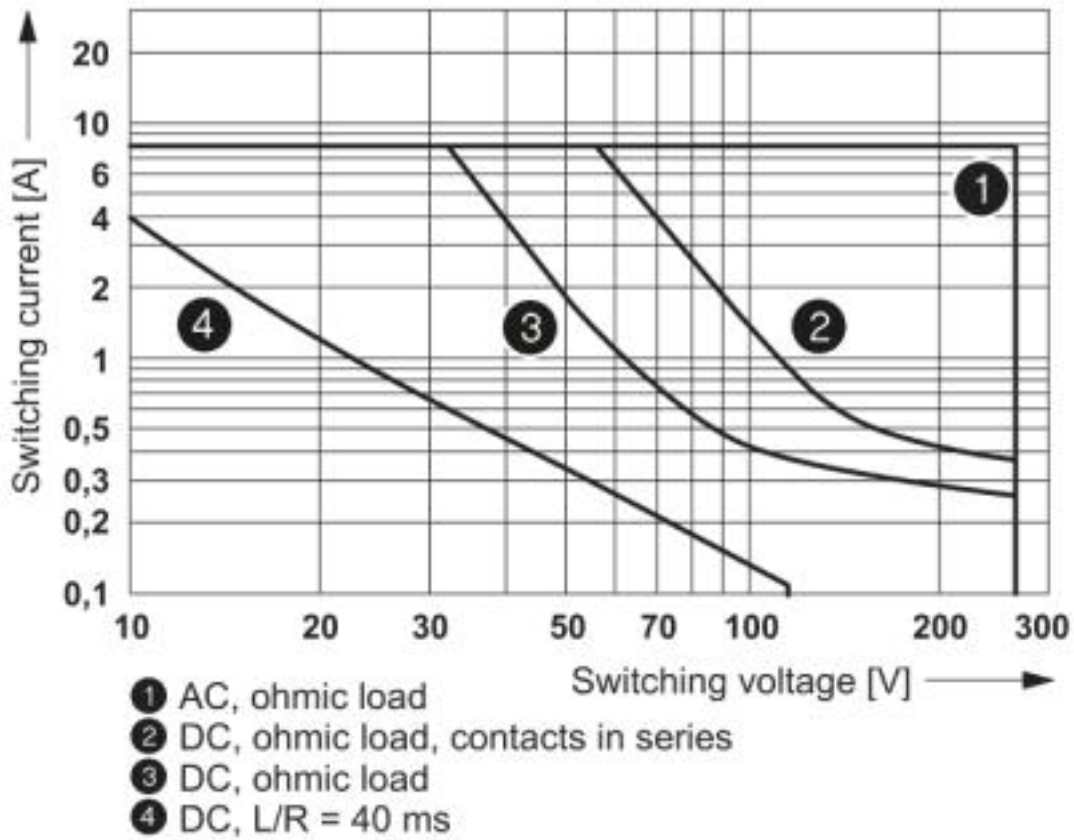
Diagram



Operating voltage range of the relay

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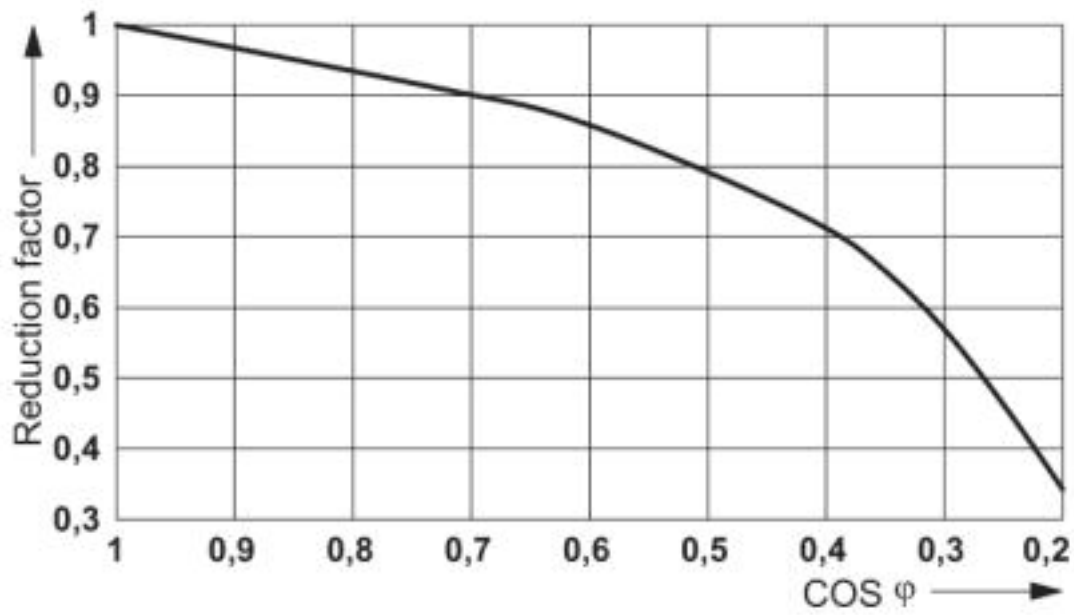
Diagram



Interrupting rating

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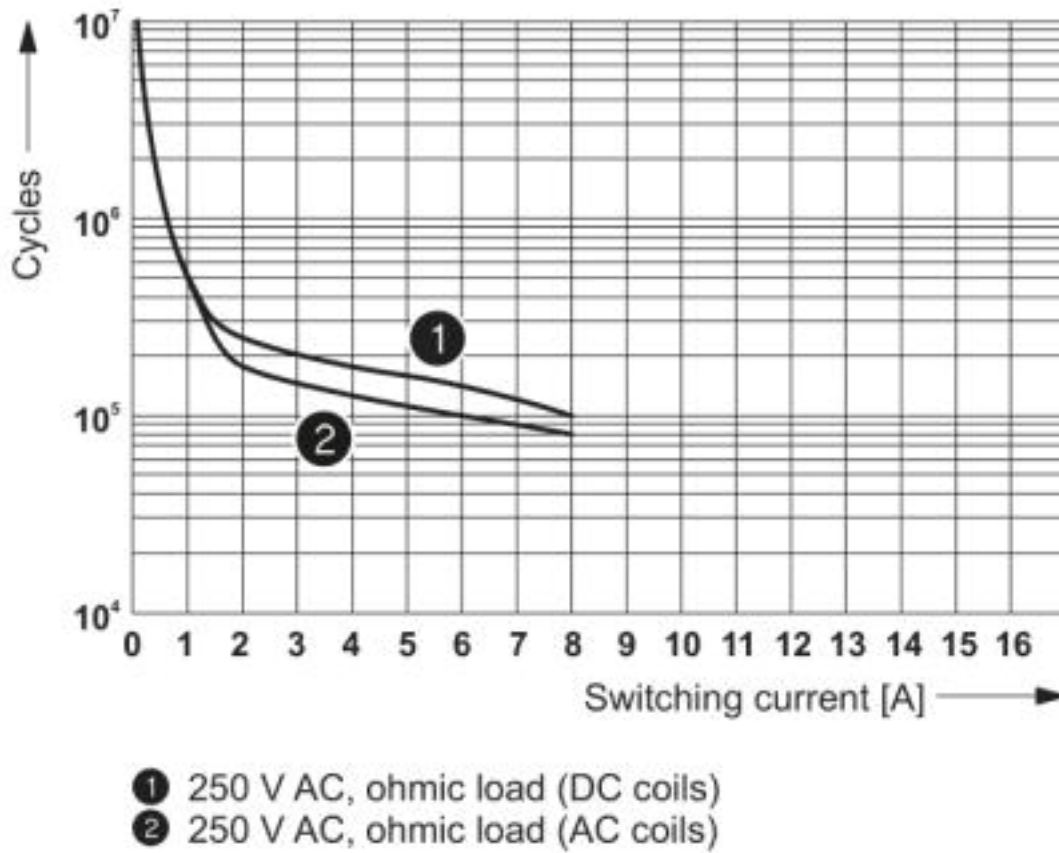
Diagram



Service life reduction factor with various cos phi

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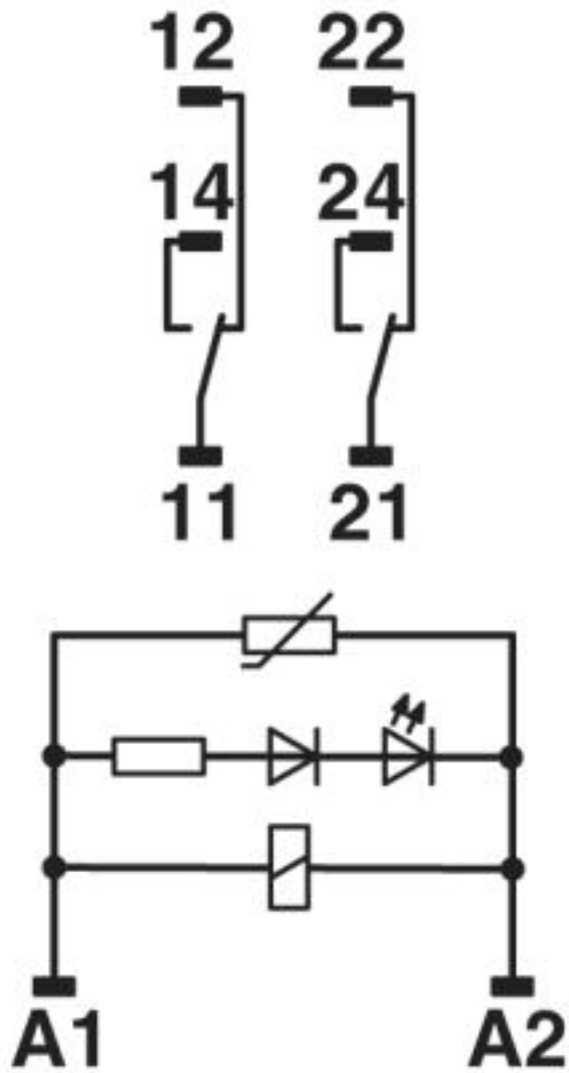
Diagram



Electrical service life

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Circuit diagram



AC coils

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