

Single relay - REL-IR/LDP- 24DC/2X21 - 2834025

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Pluggable industrial relays with power contacts, 2 PDT, test button, status LED, free-wheeling diode, mechanical switch position indicator, polarity A1+, A2-, input voltage 24 V DC

Your advantages

- ✓ With detectable manual operation
- ✓ DC types with integrated freewheeling diode
- ✓ Mechanical switch position indicator
- ✓ Integrated status LED

Key Commercial Data

| | |
|------------------------|---|
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| GTIN |  4 017918 941628 |
| GTIN | 4017918941628 |

Technical data

Dimensions

| | |
|--------|---------|
| Width | 21.5 mm |
| Height | 28 mm |
| Depth | 36 mm |

Ambient conditions

| | |
|---|------------------|
| Ambient temperature (operation) | -55 °C ... 70 °C |
| Ambient temperature (storage/transport) | -55 °C ... 70 °C |

Coil side

| | |
|--------------------------------|---------|
| Nominal input voltage U_N | 24 V DC |
| Typical input current at U_N | 38 mA |
| Typical response time | 13 ms |

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Technical data

Coil side

| | |
|---|------------------------|
| Typical release time | 14 ms |
| Coil resistance | 636 Ω ±15 % (at 20 °C) |
| Power dissipation for nominal condition | 0.91 W |

Contact side

| | |
|---------------------------------------|------------------------|
| Contact type | 2 PDT |
| Type of switch contact | Single contact |
| Contact material | Ag |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 5 V |
| Min. switching current | 1 mA |
| Maximum inrush current | 20 A (15 ms) |
| Limiting continuous current | 10 A |
| Interrupting rating (ohmic load) max. | 2500 VA (for 250 V AC) |

General

| | |
|--|---------------------------|
| Test voltage relay winding/relay contact | 2 kV AC (50 Hz, 1 min.) |
| Test voltage relay contact/relay contact | 2 kV AC (50 Hz, 1 min.) |
| Operating mode | 100% operating factor |
| Mechanical service life | 5x 10 ⁷ cycles |
| Service life, electrical | see diagram |
| Mounting position | any |
| Assembly instructions | On relay base PR2 |

Standards and Regulations

| | |
|-----------------------|----------------|
| Standards/regulations | DIN EN 61810-1 |
| | VDE 0435-201 |
| | EN 50178 |
| Pollution degree | 2 |
| Overvoltage category | II |

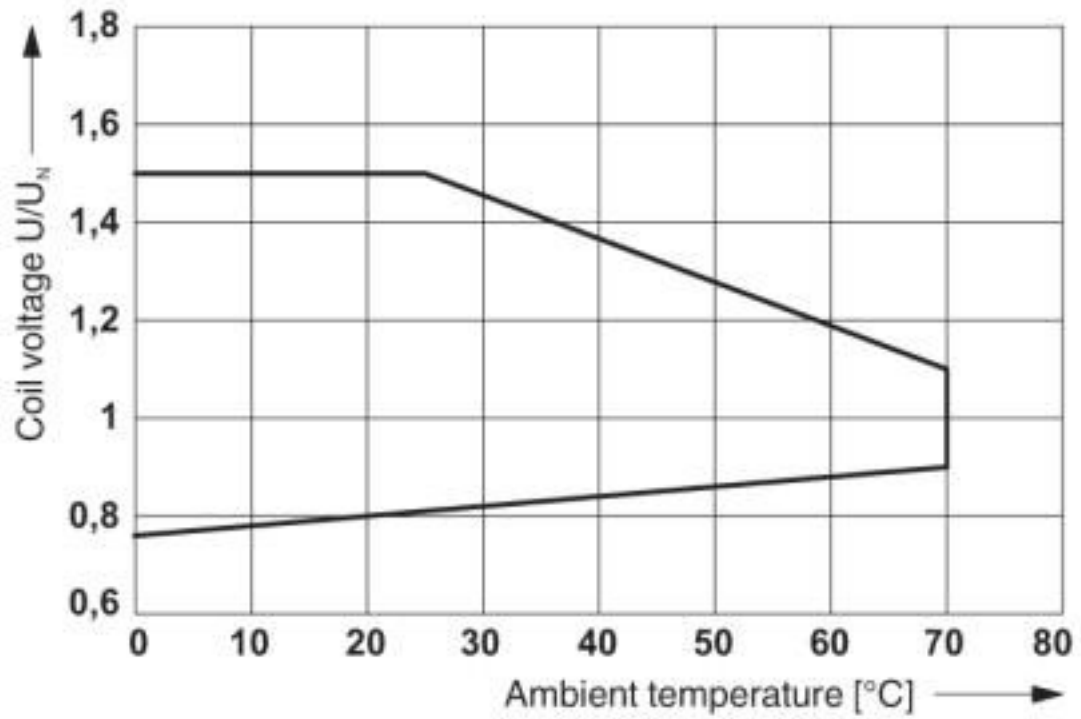
Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

Drawings

Single relay - REL-IR/LDP- 24DC/2X21 - 2834025

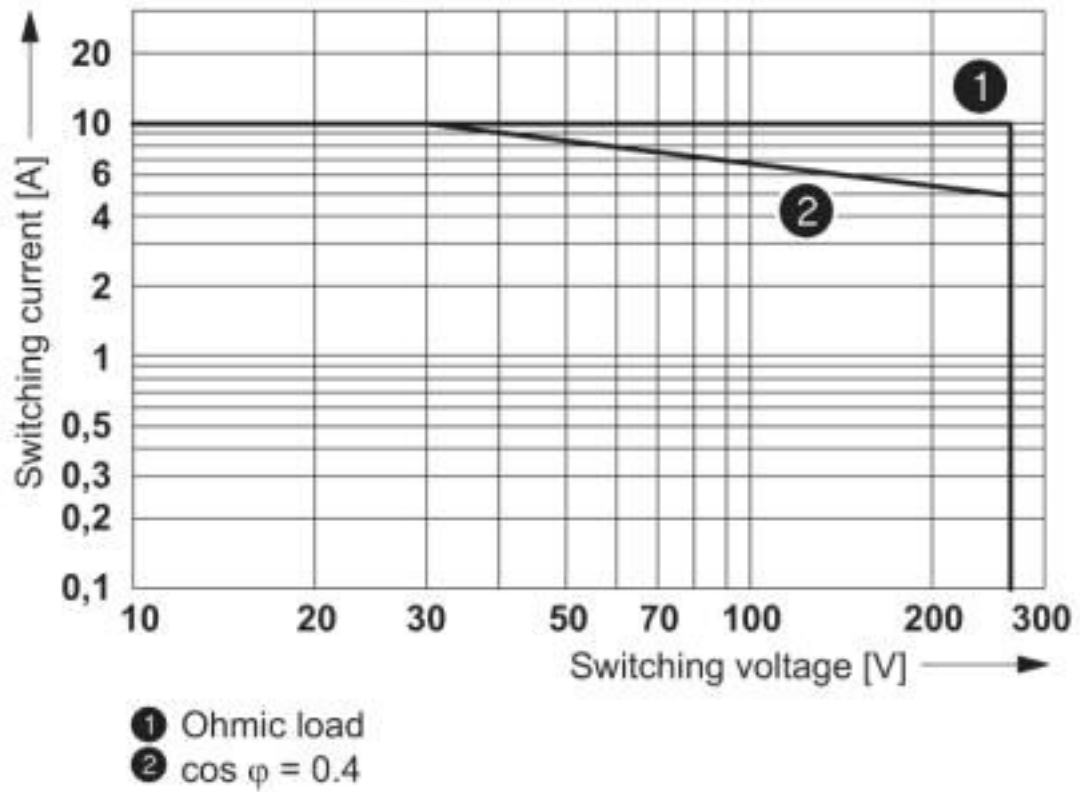
Diagram



Operating voltage range

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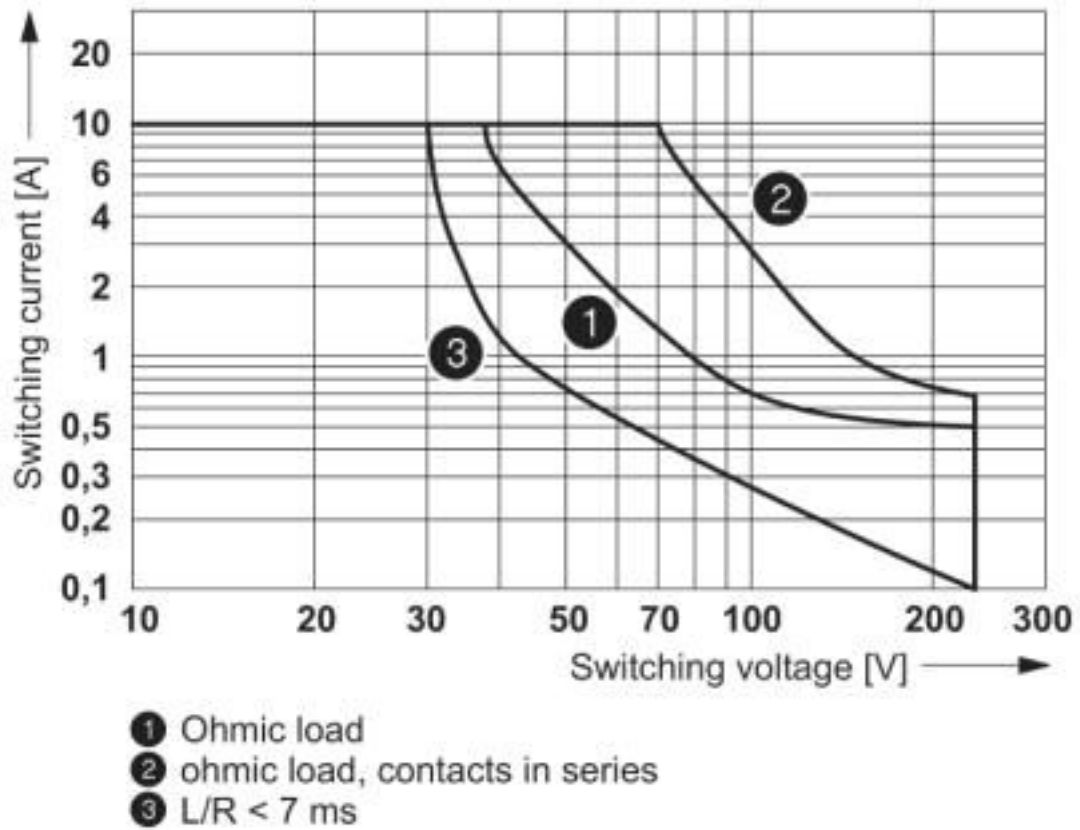
Diagram



AC interrupting rating

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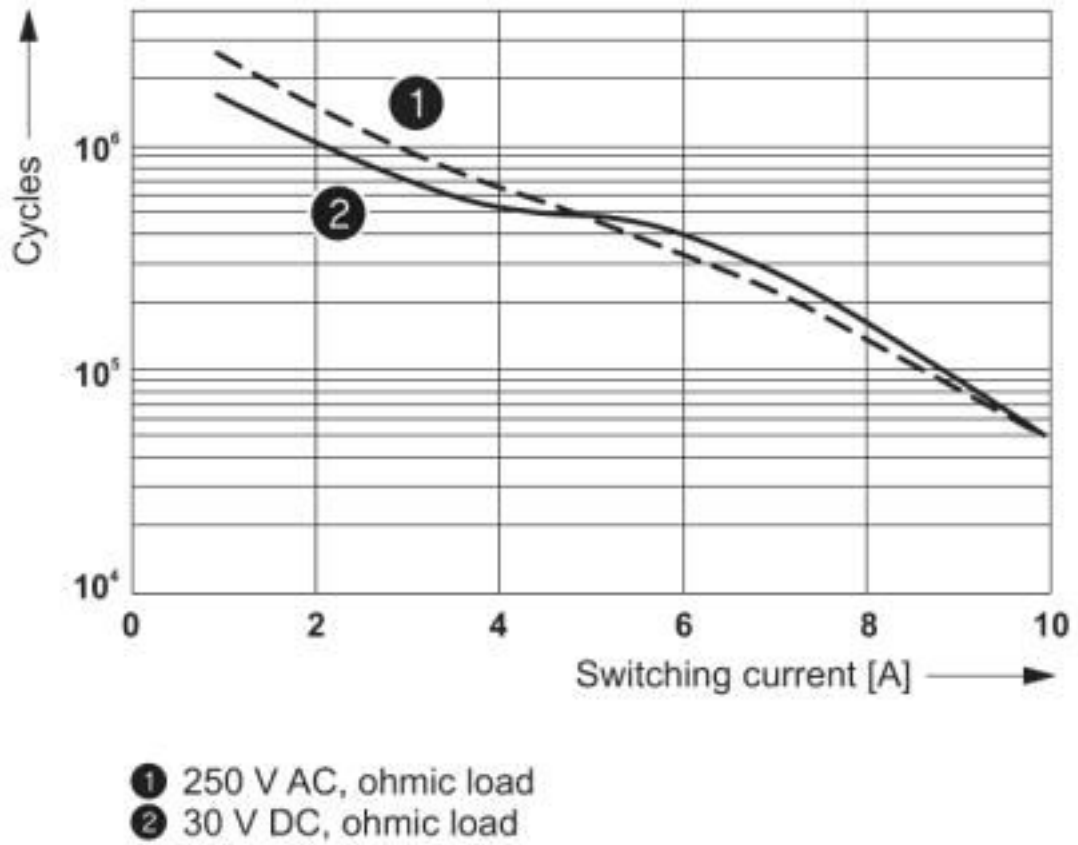
Diagram



DC interrupting rating

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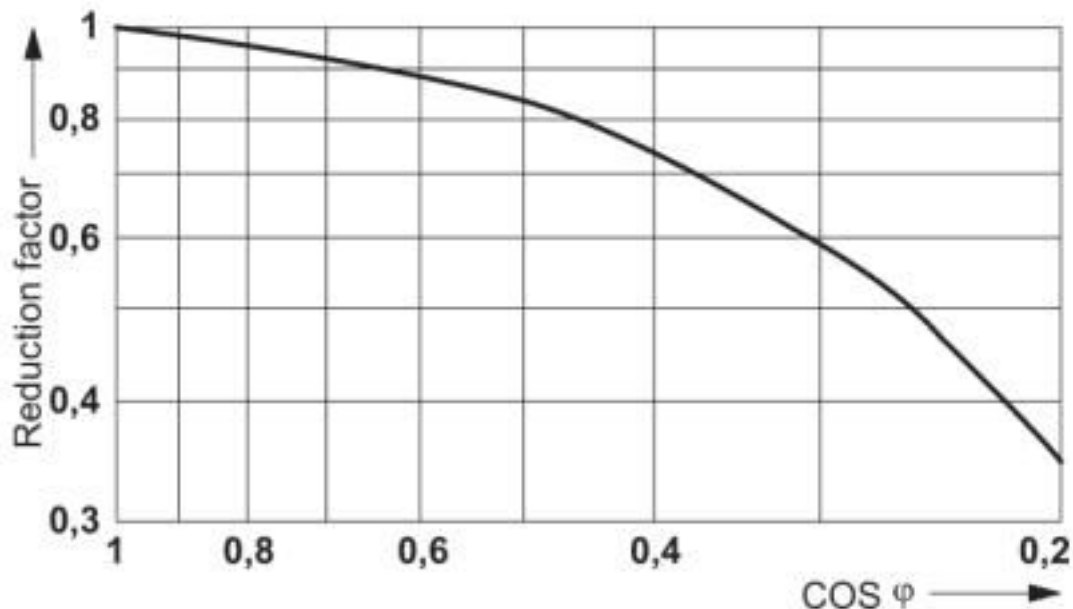
Diagram



Electrical service life

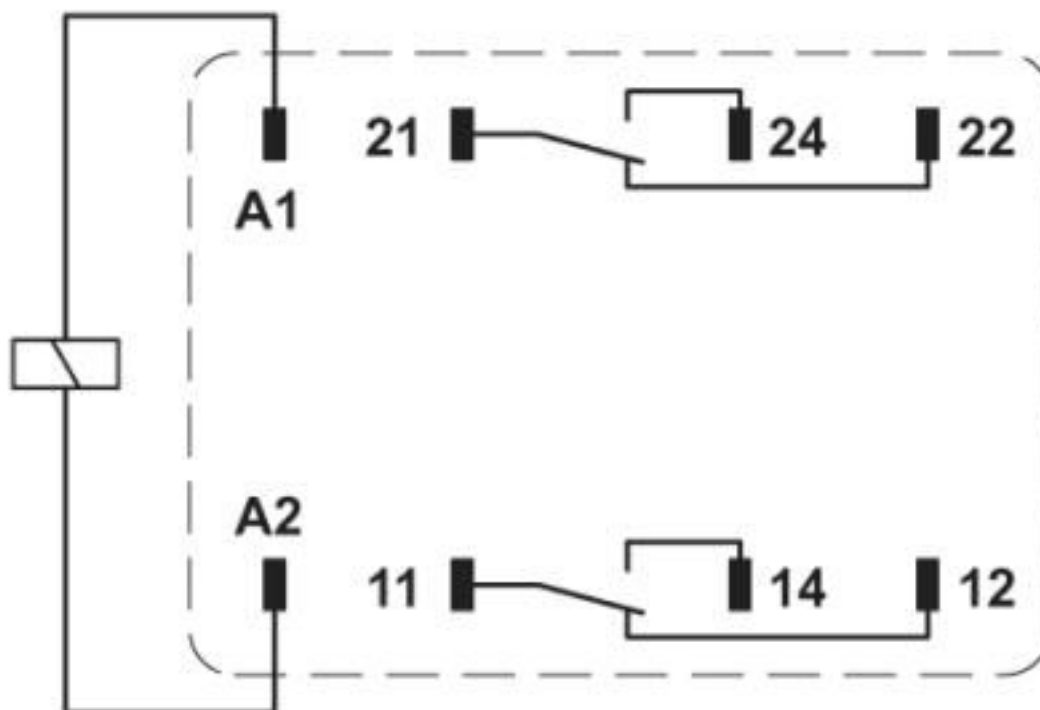
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Diagram



Service life reduction factor

Circuit diagram



Shown without LED and damping diode.
Contacts 21, 22, 24 are led onto relay base connections 41, 42, 44.

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Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27371100 |
| eCl@ss 4.1 | 27371100 |
| eCl@ss 5.0 | 27371600 |
| eCl@ss 5.1 | 27371600 |
| eCl@ss 6.0 | 27371600 |
| 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 |
| ETIM 7.0 | EC001437 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211916 |
| UNSPSC 7.0901 | 39121515 |
| UNSPSC 11 | 39121515 |
| UNSPSC 12.01 | 39121515 |
| UNSPSC 13.2 | 39122334 |
| UNSPSC 18.0 | 39122334 |
| UNSPSC 19.0 | 39122334 |
| UNSPSC 20.0 | 39122334 |
| UNSPSC 21.0 | 39122334 |

Approvals

Approvals

Approvals

UL Listed / VDE Gutachten mit Fertigungsüberwachung / cUL Listed / EAC / EAC / cULus Listed

Ex Approvals

Approval details

Single relay - REL-IR/LDP- 24DC/2X21 - 2834025

Approvals

| | | | |
|-----------|--|---|---------------|
| UL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 172140 |
|-----------|--|---|---------------|

| | | | |
|---|--|---|----------|
| VDE Gutachten mit Fertigungsüberwachung | | http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx | 40026798 |
|---|--|---|----------|

| | | | |
|------------|--|---|---------------|
| cUL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 172140 |
|------------|--|---|---------------|

| | | | |
|-----|--|--|-----------------|
| EAC | | | TR_TS_D_00573_c |
|-----|--|--|-----------------|

| | | | |
|-----|--|--|---------------------|
| EAC | | | RU*C-DE.*08.B.00010 |
|-----|--|--|---------------------|

| | | | |
|--------------|--|--|--|
| cULus Listed | | | |
|--------------|--|--|--|

Accessories

Additional products

Relay base - PR2-BSC2/4X21 - 2833563



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

Relay base - PR2-BSC3/4X21 - 2833576



Relay base 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

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Accessories

Relay base - PR2-BSP3/4X21 - 2833589



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

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