

Single relay - REL-IR/LDP- 12DC/2X21 - 2834012

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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 12 V DC

Why buy this product

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

Key Commercial Data

| | |
|--------------|---------------|
| Packing unit | 10 STK |
| GTIN | |
| GTIN | 4017918941611 |

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 | 12 V DC |
| Input voltage range in reference to U_N | see diagram |
| Typical input current at U_N | 75 mA |
| Typical response time | 13 ms |

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Technical data

Coil side

| | |
|---|------------------------|
| Typical release time | 14 ms |
| Coil resistance | 160 Ω ±15 % (at 20 °C) |
| Power dissipation for nominal condition | 0.9 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 |
| Degree of protection | RT I |
| Mechanical service life | 5x 10 ⁷ cycles |
| Mounting position | any |
| Assembly instructions | On relay base PR2 |

Standards and Regulations

| | |
|-----------------------|----------------|
| Standards/regulations | DIN EN 61810-1 |
| | VDE 0435-201 |
| | EN 50178 |
| Degree of pollution | 2 |
| Overvoltage category | II |

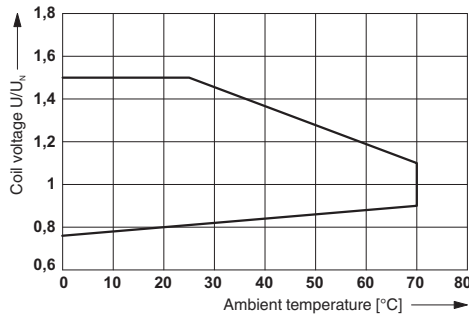
Environmental Product Compliance

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

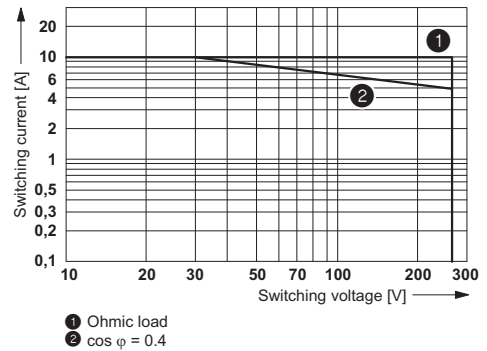
Drawings

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Diagram



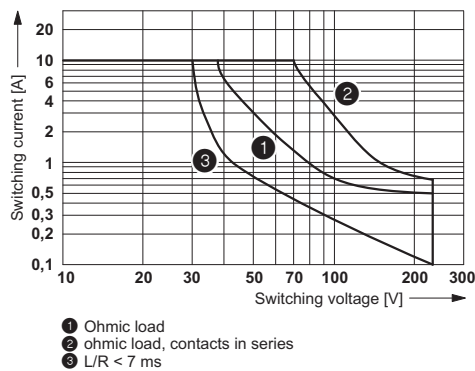
Diagram



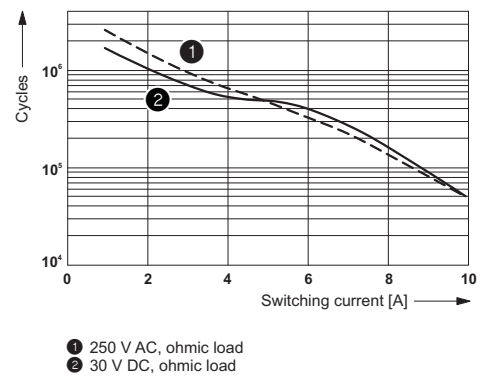
Operating voltage range

AC interrupting rating

Diagram



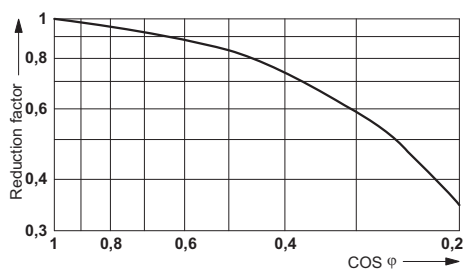
Diagram



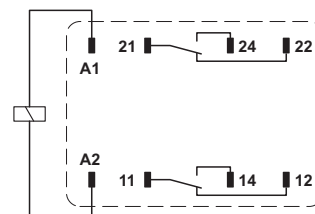
DC interrupting rating

Electrical service life

Diagram



Circuit diagram



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

Service life reduction factor

Approvals

Approvals

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Approvals

Approvals

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

Ex Approvals

Approval details

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

| | | | |
|---|--|--|----------|
| VDE Gutachten mit Fertigungsüberwachung | | | 40026798 |
|---|--|--|----------|

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

| | | | |
|-----|--|--|--------------------------|
| EAC | | | RU C- DE.A*30.B.01082 |
|-----|--|--|--------------------------|

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

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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>