

Single relay - REL-IR4/LDP-125DC/4X21AU - 2903674

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Plug-in industrial relay with power contacts and additional hard gold plating, 4 PDTs, test key, status LED, freewheeling diode, mechanical switch position indicator, polarity: A1+, A2-, coil voltage: 125 V DC



COMPLETE

Key Commercial Data

| | |
|--------------------------------------|---|
| Packing unit | 1 pc |
| Minimum order quantity | 10 pc |
| GTIN |  4 046356 758871 |
| GTIN | 4046356758871 |
| Weight per Piece (excluding packing) | 34.000 g |
| Custom tariff number | 85364900 |
| Country of origin | Poland |

Technical data

Dimensions

| | |
|--------|---------|
| Width | 21.2 mm |
| Height | 27.5 mm |
| Depth | 35.6 mm |

Ambient conditions

| | |
|---|------------------|
| Ambient temperature (operation) | -40 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Degree of protection | RT I |

Coil side

| | |
|-----------------------------|----------|
| Nominal input voltage U_N | 125 V DC |
|-----------------------------|----------|

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Technical data

Coil side

| | |
|---|---------------|
| Input voltage range in reference to U_N | see diagram |
| Typical input current at U_N | 7.7 mA |
| Typical response time | 13 ms |
| Typical release time | 14 ms |
| Protective circuit | Damping diode |
| Status display | Yellow LED |
| Power dissipation for nominal condition | 0.96 W |

Contact side

| | |
|---------------------------------------|---|
| Contact type | 4 PDTs |
| Type of switch contact | Single contact |
| Contact material | AgNi, hard gold-plated |
| Note | If the specified maximum values for multi-layer contact relays are exceeded, the gold plating is destroyed. The maximum values of the power contact relay are then valid. This can result in a shorter service life than with a pure power contact. |
| Maximum switching voltage | 30 V AC 36 V DC |
| Minimum switching voltage | 2 V (At 24 mA) |
| Min. switching current | 2 mA (24 V DC) |
| Maximum inrush current | 50 mA |
| Limiting continuous current | 50 mA |
| Interrupting rating (ohmic load) max. | 1.2 W (at 24 V DC) |
| Switching capacity min. | 48 mW |
| Motor load according to UL 508 | 1/3 HP, 240 V AC |

Contact side (with destroyed gold layer)

| | |
|---------------------------------------|--|
| Contact material | AgNi |
| Note | the following values are applicable if a gold layer is destroyed |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 5 V (At 24 mA) |
| Limiting continuous current | 6 A |
| Maximum inrush current | 16 A (20 ms, N/O contacts) |
| Min. switching current | 5 mA (at 24 V) |
| Interrupting rating (ohmic load) max. | 144 W (at 24 V DC) 124 W (at 48 V DC) 108 W (at 60 V DC) 52 W (at 110 V DC) 48 W (at 220 V DC) |

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Technical data

Contact side (with destroyed gold layer)

| | |
|--------------------|-------------------------|
| | 1500 VA (for 250 V AC) |
| Switching capacity | 2 A (at 24 V, DC13) |
| | 0.22 A (at 120 V, DC13) |
| | 0.11 A (at 250 V, DC13) |
| | 1.5 A (at 24 V, AC15) |
| | 1.5 A (at 120 V, AC15) |
| | 1 A (at 240 V, AC15) |

General

| | |
|--|---------------------------------------|
| Test voltage relay winding/relay contact | 2.5 kV _{rms} (50 Hz, 1 min.) |
| Test voltage PDT/PDT | 2 kV _{rms} (50 Hz, 1 min.) |
| Operating mode | 100% operating factor |
| Mechanical service life | approx. 2x 10 ⁷ cycles |
| Service life, electrical | see diagram |
| Mounting position | any |

Connection data

| | |
|-------------------|-----------------|
| Connection method | Plug connection |
|-------------------|-----------------|

Standards and Regulations

| | |
|----------------------------------|------------------|
| Connection in acc. with standard | CSA |
| Standards/regulations | IEC 60664 |
| | IEC 61810 |
| Rated insulation voltage | 250 V AC |
| Rated surge voltage | 2.5 kV |
| Insulation | Basic insulation |
| Pollution degree | 2 |
| Overvoltage category | II |

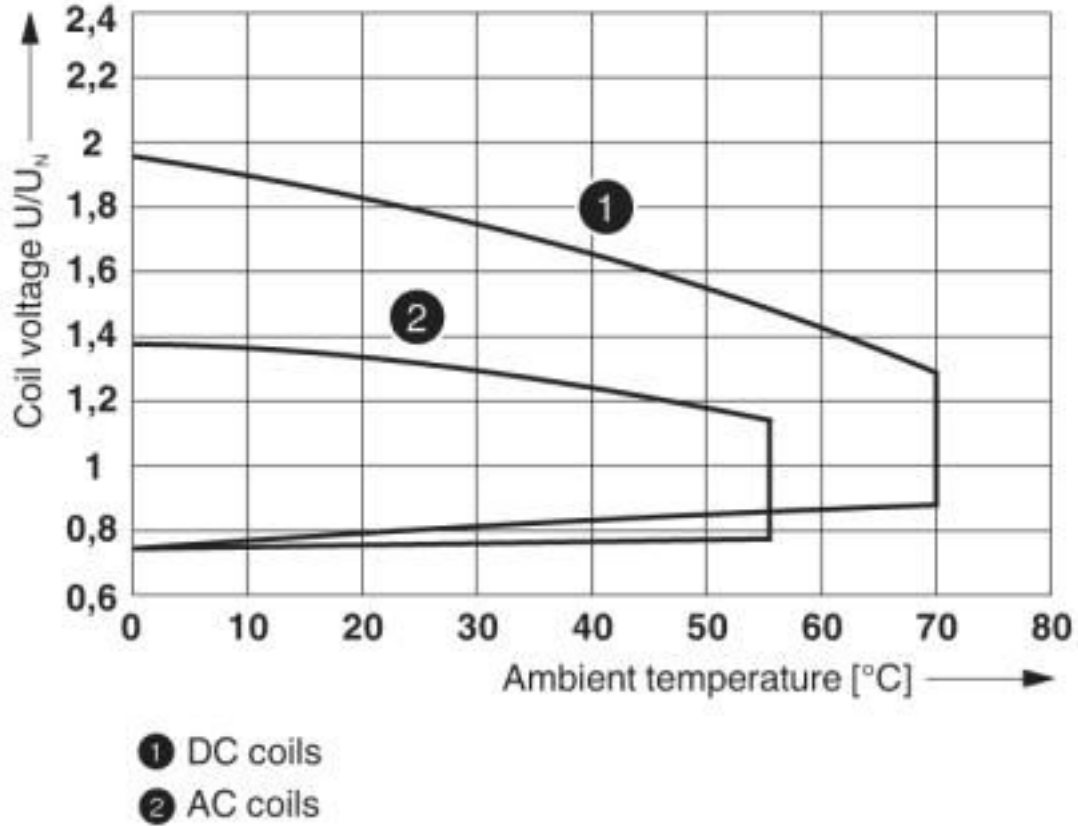
Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

Single relay - REL-IR4/LDP-125DC/4X21AU - 2903674

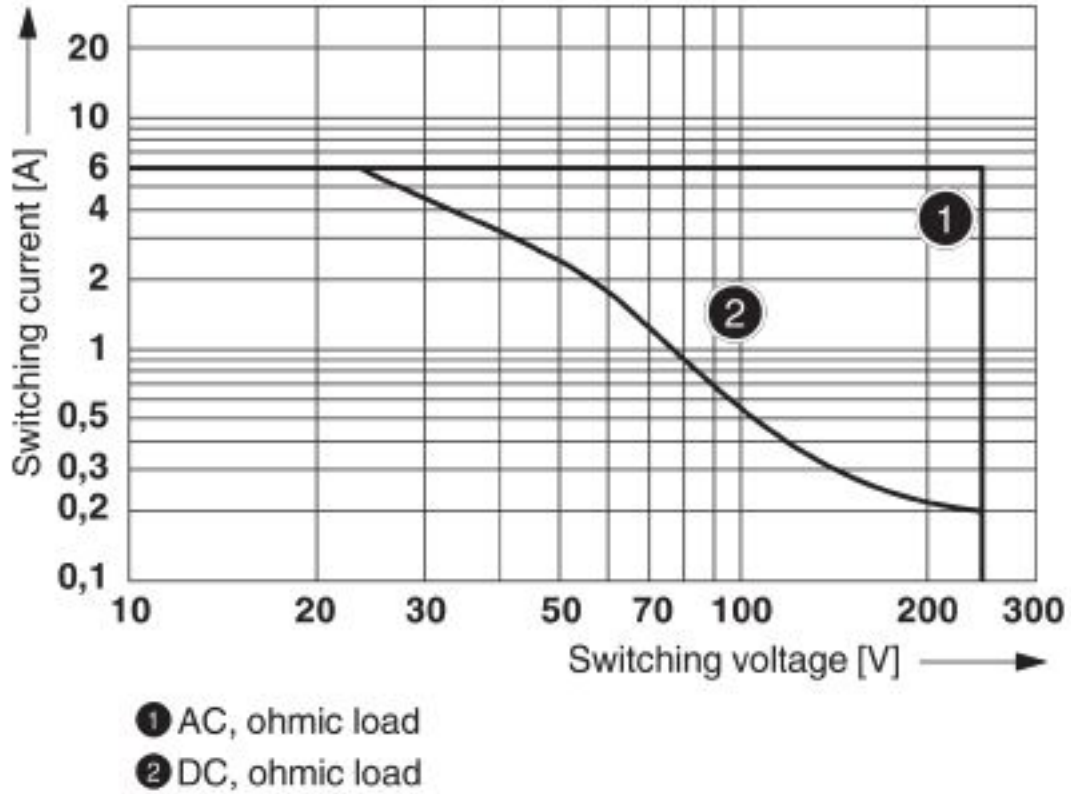
Diagram



Operating voltage range

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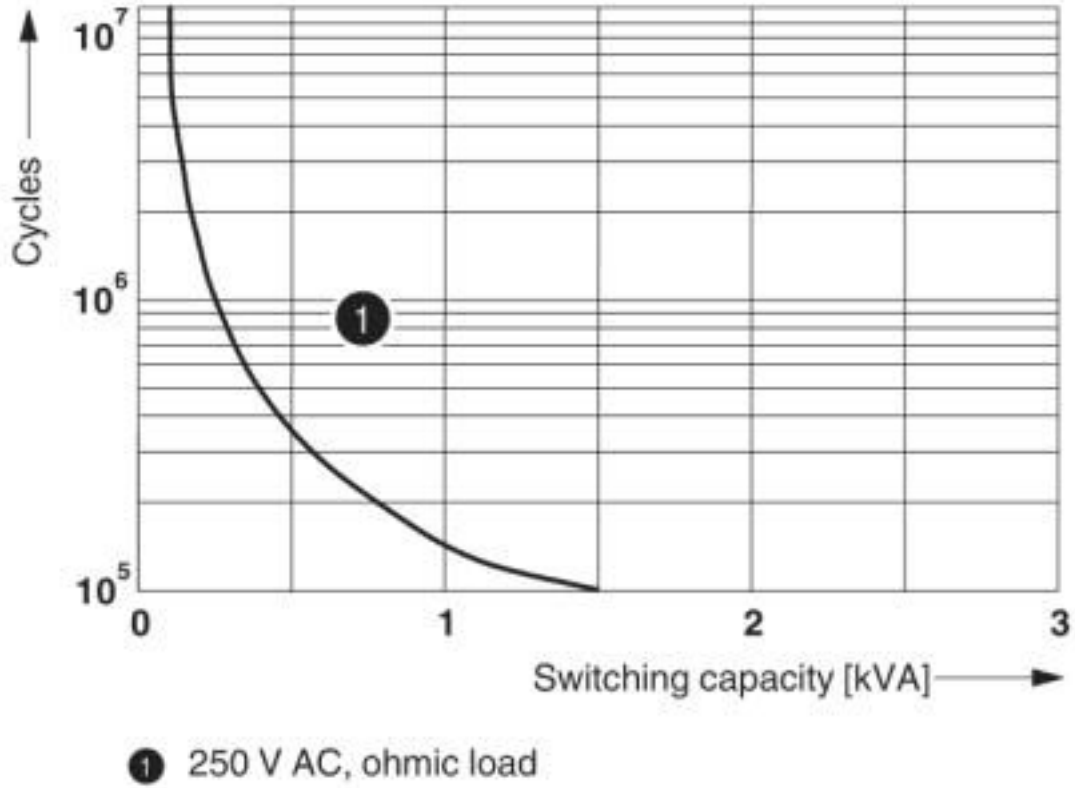
Diagram



Interrupting rating

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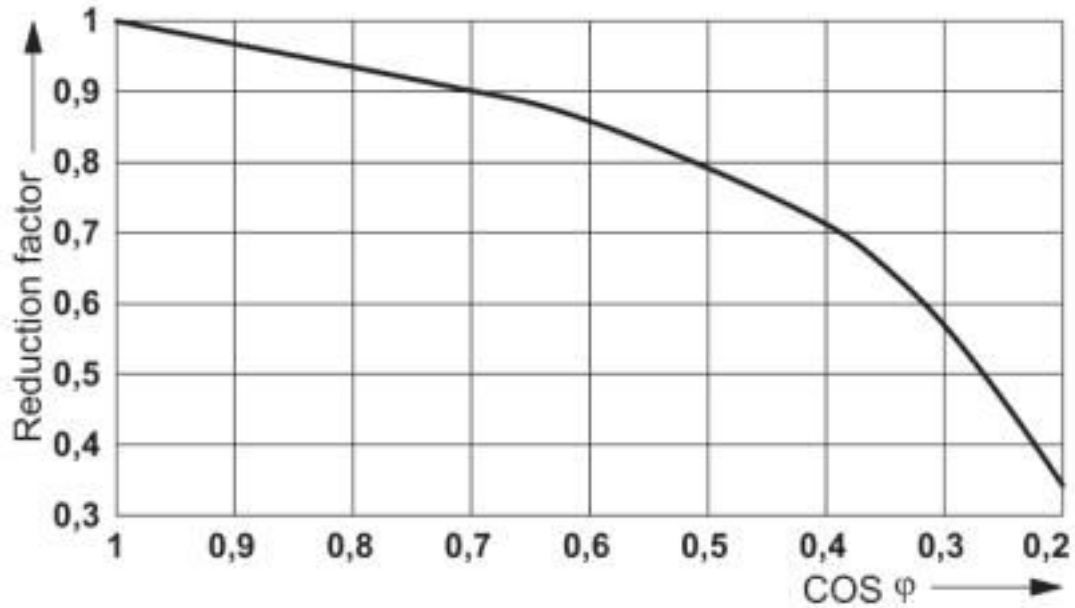
Diagram



Electrical service life

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Diagram



Service life reduction factor

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27371601 |
| 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 |

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Classifications

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

CSA / UL Recognized / cUL Recognized / VDE Zeichengenehmigung / EAC / EAC / cULus Recognized

Ex Approvals

Approval details

| | | | |
|-----|--|---|---------|
| CSA | | http://www.csagroup.org/services-industries/product-listing/ | 2554095 |
|-----|--|---|---------|

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

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


| | | | |
|------------------------|--|---|----------|
| VDE Zeichengenehmigung | | http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx | 40040427 |
|------------------------|--|---|----------|

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

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

| | | |
|------------------|---|--|
| cULus Recognized |  | |
|------------------|---|--|

Accessories

Additional products

Relay base - RIF-2-BPT/4X21 - 2900934



RIF-2... relay base, for industrial relay with 2 or 4 PDTs, push-in connection, plug-in option for input/suppressor modules, for mounting on NS 35/7,5

Relay base - RIF-2-BSC/4X21 - 2900932



RIF-2... relay base, for industrial relay with 2 or 4 changeover contacts, screw connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5