

# Single relay - REL-IR4/LDP- 12DC/4X21

2903676

<https://www.phoenixcontact.com/de/produkte/2903676>

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Plug-in industrial relay with power contacts and additional hard gold plating, 4 changeover contacts, test button, status LED, freewheeling diode, mechanical switching position indicator, polarity: A1+, A2-, coil voltage: 12 V DC

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## Commercial Data

Item number	2903676
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to Order (non-returnable)
Sales Key	G1 - Relais
Product Key	CK6193
Catalog Page	Page 300 (C-5-2019)
GTIN	4046356758895
Weight per Piece (including packing)	35,08 g
Weight per Piece (excluding packing)	34,03 g
Customs tariff number	85364190
Country of origin	PL

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## Technical Data

### Product properties

Product type	Single relay
Operating mode	100% operating factor
Mechanical service life	approx. $2 \times 10^7$ cycles

### Insulation characteristics

Overvoltage category	II
Pollution degree	2
Insulation	Basic insulation

### Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	0.94 W
Test voltage	2.5 kV <sub>rms</sub> (50 Hz, 1 min., winding/contact)
Test voltage Changeover contact/changeover contact	2 kV <sub>rms</sub> (50 Hz, 1 min., changeover contact/changeover contact)
Rated insulation voltage	250 V AC
Rated surge voltage	2.5 kV

### Input data

#### Coil side

Nominal input voltage $U_N$	12 V DC
Input voltage range	9.6 V DC ... 21.6 V DC (20 °C)
Typical input current at $U_N$	78 mA
Typical response time	13 ms
Typical release time	14 ms
Protective circuit	Freewheeling diode
Status display	Yellow LED

### Output data

#### Switching

Contact type	4 changeover contacts
Type of switch contact	Single contact
Drive and function	monostable
Contact material	AgNi
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)

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	108 W (at 60 V DC)
	52 W (at 110 V DC)
	48 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching capacity min.	0.12 W
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)
Motor load according to UL 508	1/3 HP, 240 V AC

## Connection data

Connection method	Plug-in connection
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## Dimensions

Width	21.2 mm
Height	27.5 mm
Depth	35.6 mm

## Environmental and real-life conditions

### Ambient conditions

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

## Approval data

### Corrosive gas test

Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

## Standards and regulations

Standards/regulations	IEC 60664
	IEC 61810

## Mounting

Mounting position	any
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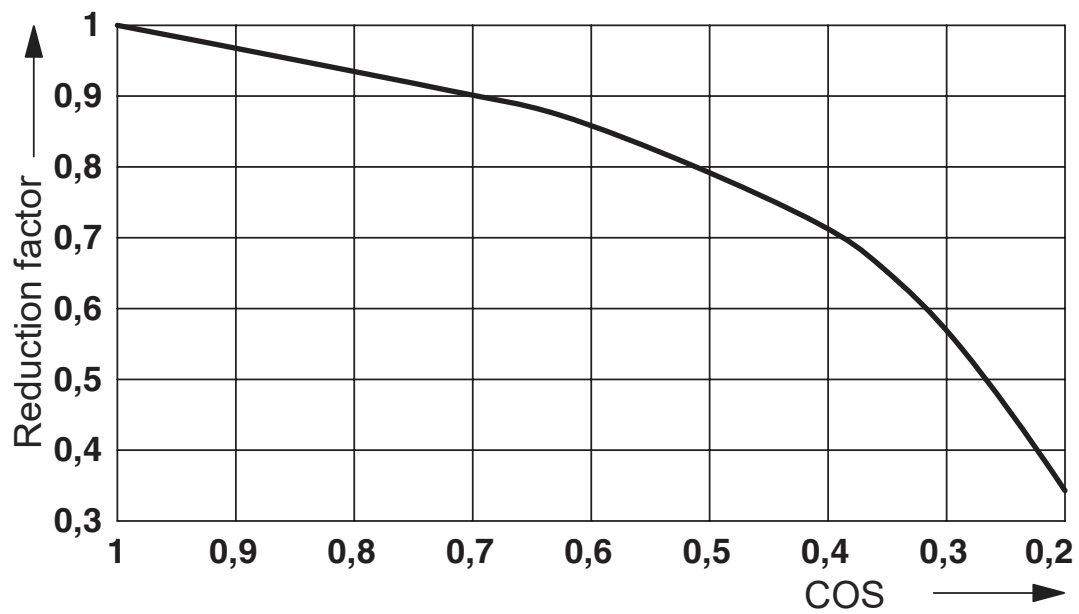
# Single relay - REL-IR4/LDP- 12DC/4X21

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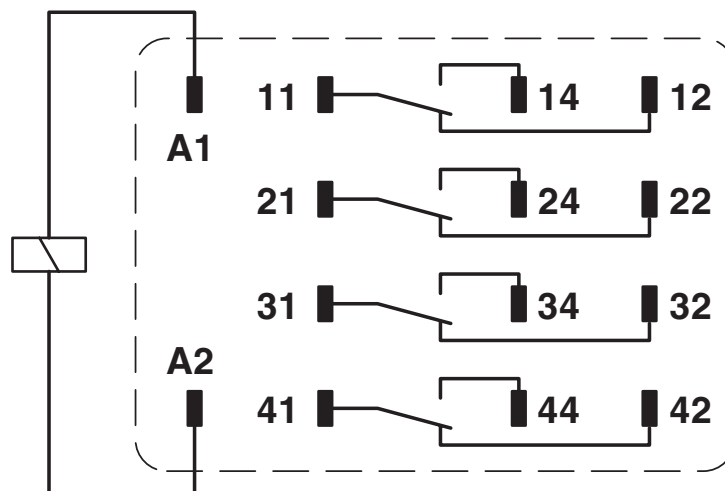
## Drawings

Diagram



Service life reduction factor

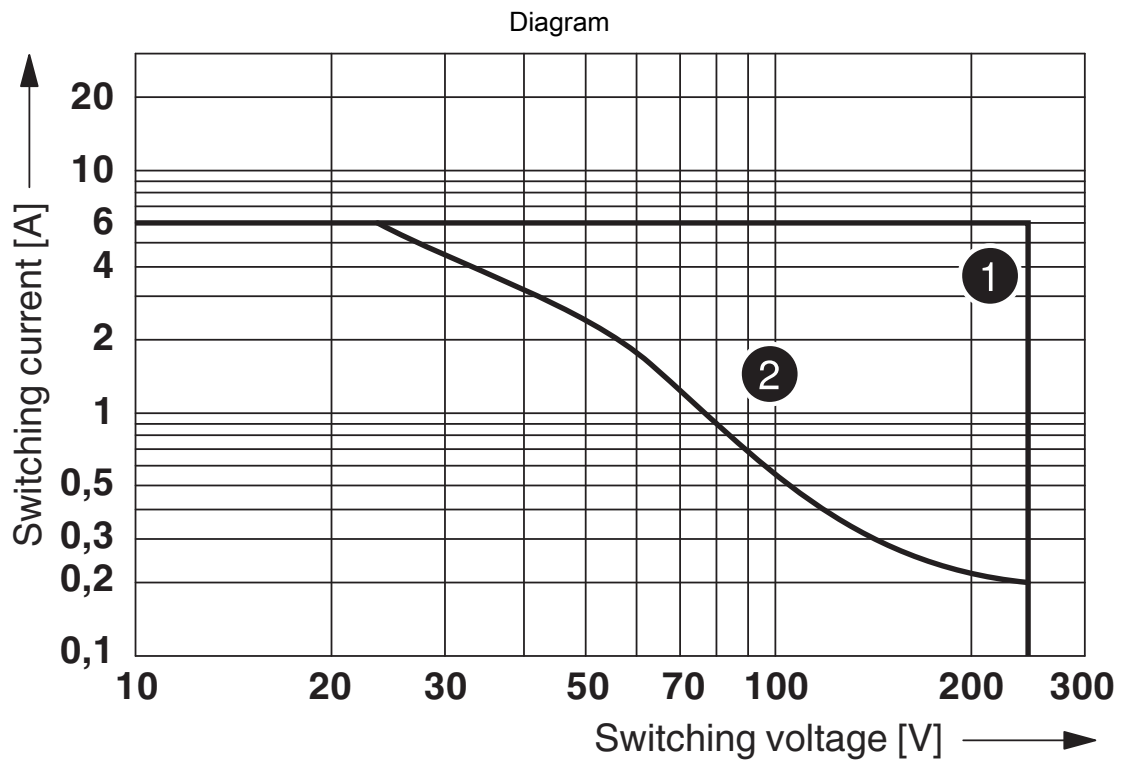
Circuit diagram



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① AC, ohmic load

② DC, ohmic load

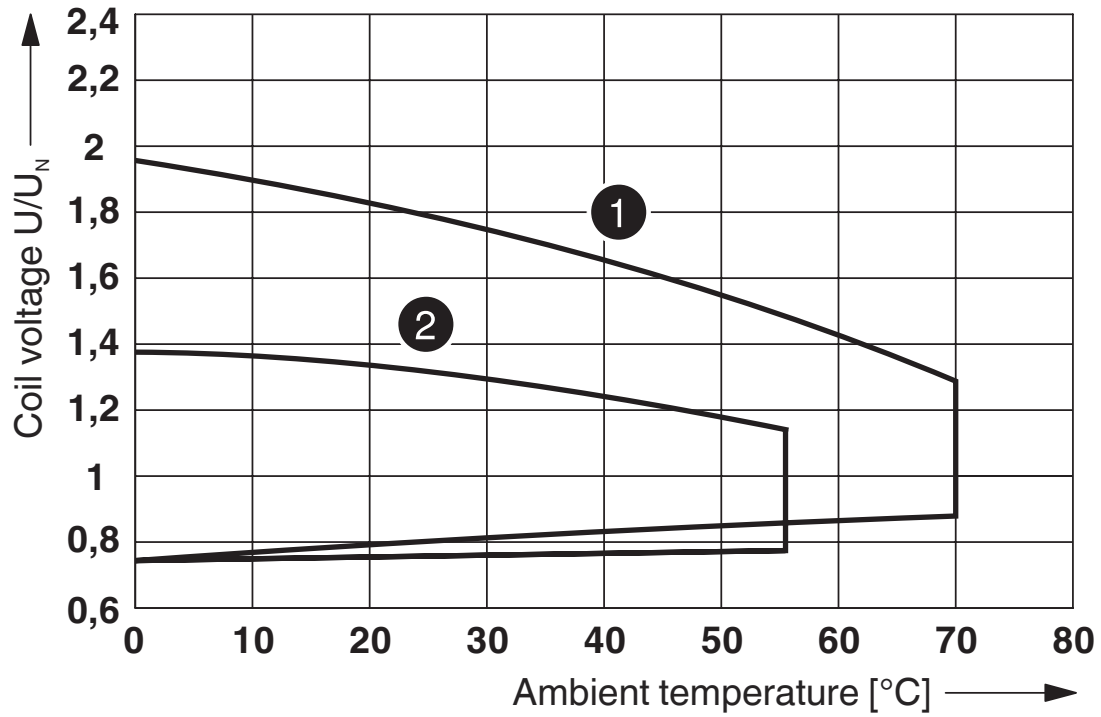
Interrupting rating

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Diagram



① DC coils

② AC coils

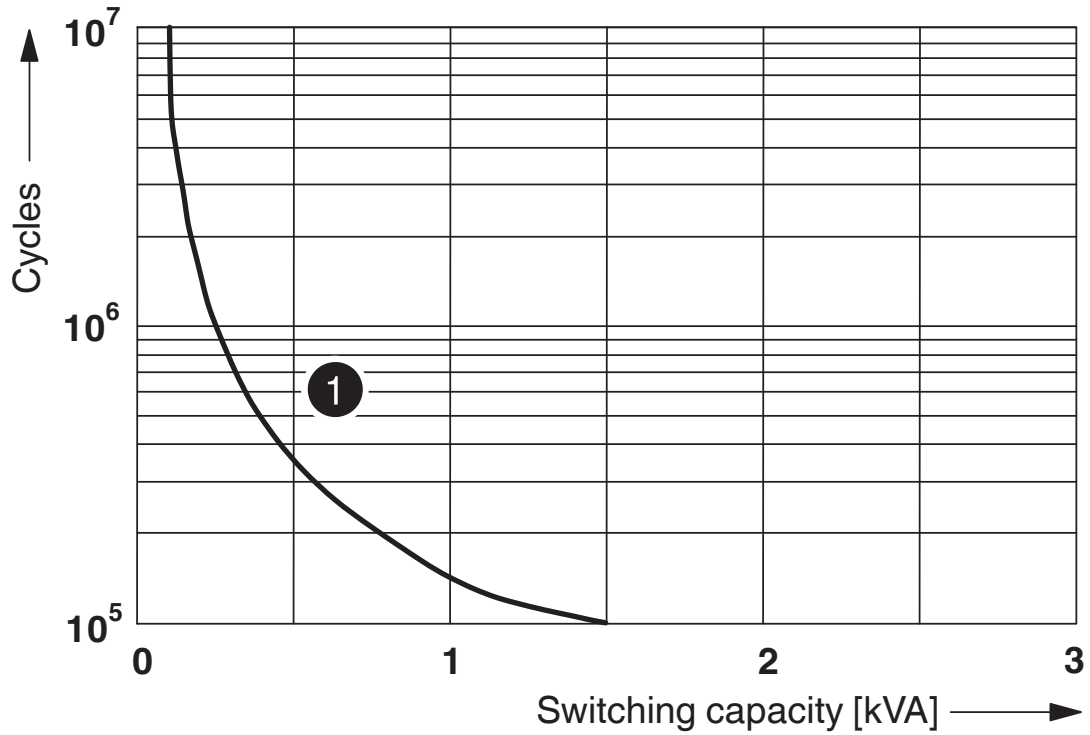
Operating voltage range

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Diagram



① 250 V AC, Ohmic load

Electrical service life



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## Approvals

 **CSA**  
Approval ID: 2554095

 **cUL Recognized**  
Approval ID: FILE E 172140

 **UL Recognized**  
Approval ID: FILE E 172140

 **EAC**  
Approval ID: TR\_TS\_D\_00573\_c

 **VDE Zeichengenehmigung**  
Approval ID: 40040427

**cULus Recognized**

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## Classifications

### ECLASS

ECLASS-9.0	27371601
ECLASS-10.0.1	27371601
ECLASS-11.0	27371601

### ETIM

ETIM 8.0	EC001437
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### UNSPSC

UNSPSC 21.0	39122300
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## Environmental Product Compliance

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

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## Accessories

### Relay base

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

<https://www.phoenixcontact.com/de/produkte/2900934>



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

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### Relay base

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

<https://www.phoenixcontact.com/de/produkte/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

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