

# REL-PR2- 24DC/2X21 - Single relay



2903698

<https://www.phoenixcontact.com/za/products/2903698>

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Plug-in high-power relay with power contacts, 2 changeover contacts, coil voltage: 24 V DC



## Commercial data

Item number	2903698
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	CK6
Product key	CK6193
Catalog page	Page 312 (C-5-2019)
GTIN	4046356759106
Weight per piece (including packing)	82,44 g
Weight per piece (excluding packing)	82,44 g
Customs tariff number	85364190
Country of origin	PL

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## Technical data

### Product properties

Product type	Single relay
Set comprises	2903281 RIF-4-RPT-LDP-24DC/2X21
	2903291 RIF-4-RSC-LDP-24DC/2X21
Operating mode	100% operating factor
Mechanical service life	approx. $10^7$ cycles

### Insulation characteristics

Insulation	Basic insulation
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### Insulation characteristics

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	3

### Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	1.34 W
Test voltage (Winding/contact)	2.5 kV <sub>rms</sub> (50 Hz, 1 min., winding/contact)
Test voltage (Contact/contact)	2.5 kV <sub>rms</sub> (50 Hz, 1 min., contact/contact)
Test voltage (Changeover contact/changeover contact)	2.5 kV <sub>rms</sub> (50 Hz, 1 min., changeover contact/changeover contact)
Rated insulation voltage	250 V AC
Rated surge voltage	4 kV

### Input data

#### Coil side

Nominal input voltage $U_N$	24 V DC
Input voltage range	20.4 V DC ... 26.4 V DC (20 °C)
Drive and function	monostable
Drive (polarity)	non-polarized
Typical input current at $U_N$	56 mA
Typical response time	20 ms
Typical release time	15 ms

### Output data

#### Switching

Contact switching type	2 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	440 V AC
	250 V DC

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Minimum switching voltage	10 V (At 24 mA)
Limiting continuous current	16 A
Maximum inrush current	50 A (20 ms, N/O contacts)
Min. switching current	10 mA (at 24 V)
Interrupting rating (ohmic load) max.	384 W (at 24 V DC) 124 W (at 48 V DC) 108 W (at 60 V DC) 52 W (at 110 V DC) 70 W (at 220 V DC) 4000 VA (for 250 V AC) 4000 VA (at 440 V AC)
Switching capacity	2 A (at 24 V, DC13) 0.22 A (at 120 V, DC13) 0.11 A (at 250 V, DC13) 3 A (at 120 V, AC15) 1.5 A (at 240 V, AC15)
Single-phase motor load	800 W (at 230 V, AC3)
Motor load according to UL 508	1/3 HP, 120 V AC (N/O contact) 1/2 HP, 240 V AC (N/O contact)

## Connection data

Connection method	Plug-in connection
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## Dimensions

Width	38.6 mm
Height	36.1 mm
Depth	45.5 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

## Approvals

### Corrosive gas test

Identification	ISA-S71.04. G3 Harsh Group EN 60068-2-60
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## Standards and regulations

Standards/regulations	IEC 60664 IEC 61810
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## Mounting

# REL-PR2- 24DC/2X21 - Single relay



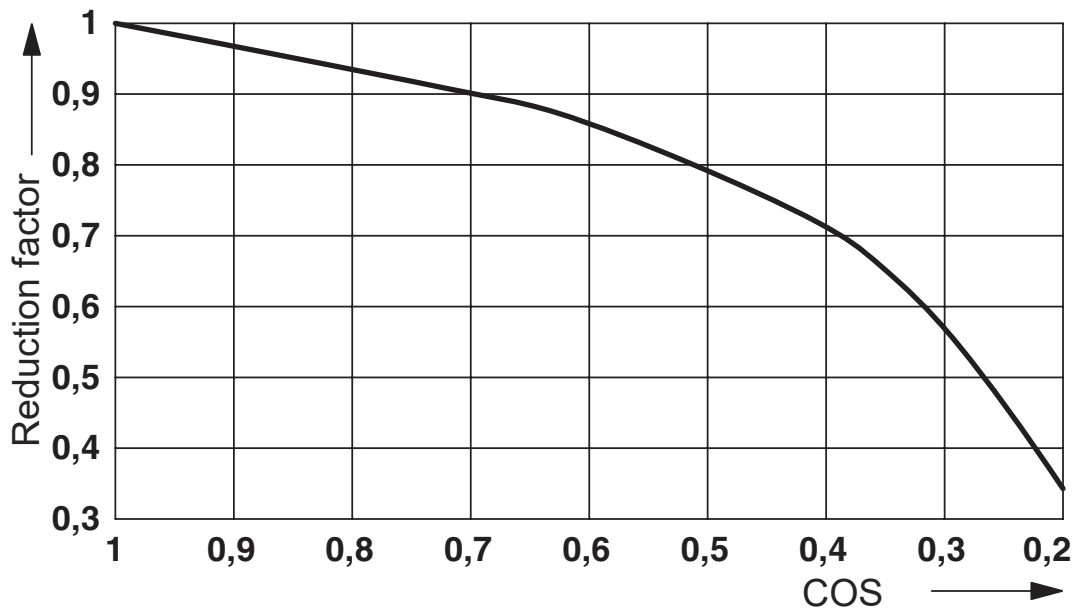
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Mounting position	any
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## Drawings

Diagram



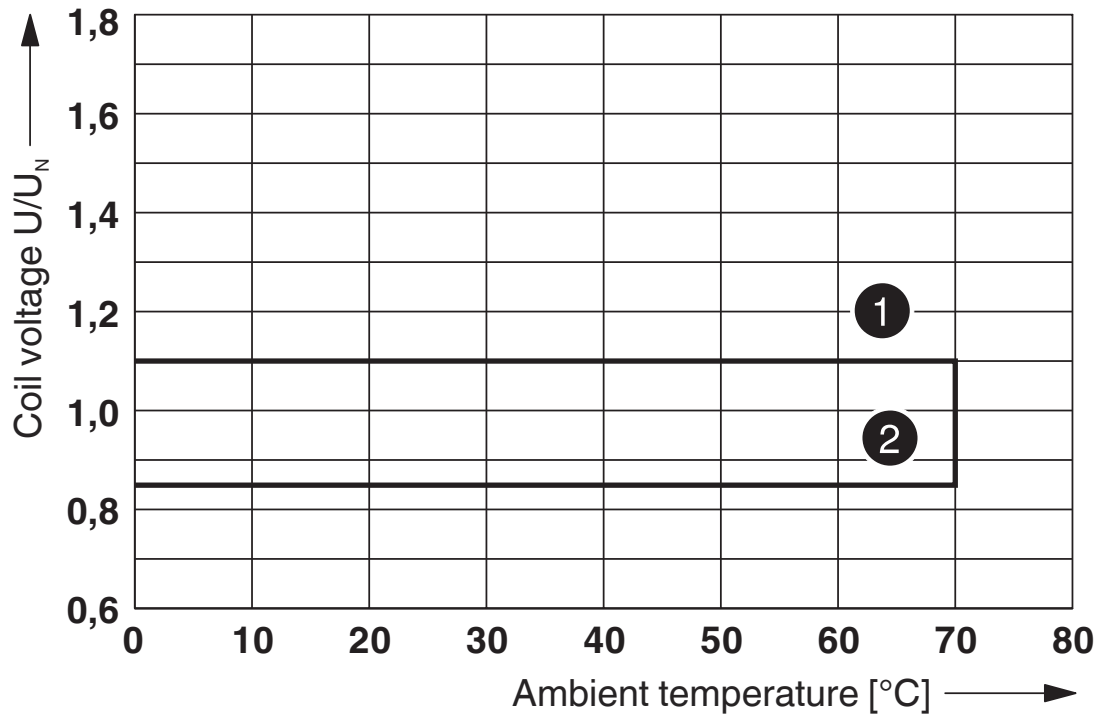
Service life reduction factor

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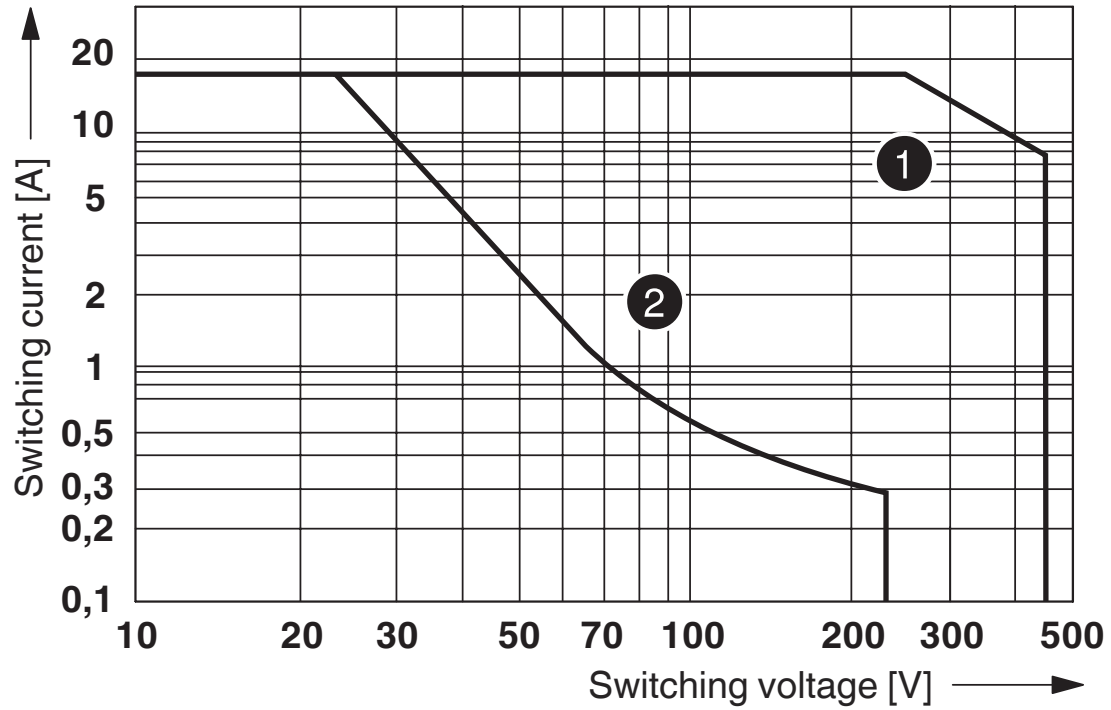
Diagram



- ① Maximum continuous voltage at limiting continuous current = 16 A
- ② Minimum operate voltage  
For pre-excitation with UN and limiting continuous current = 16 A

Operating voltage range

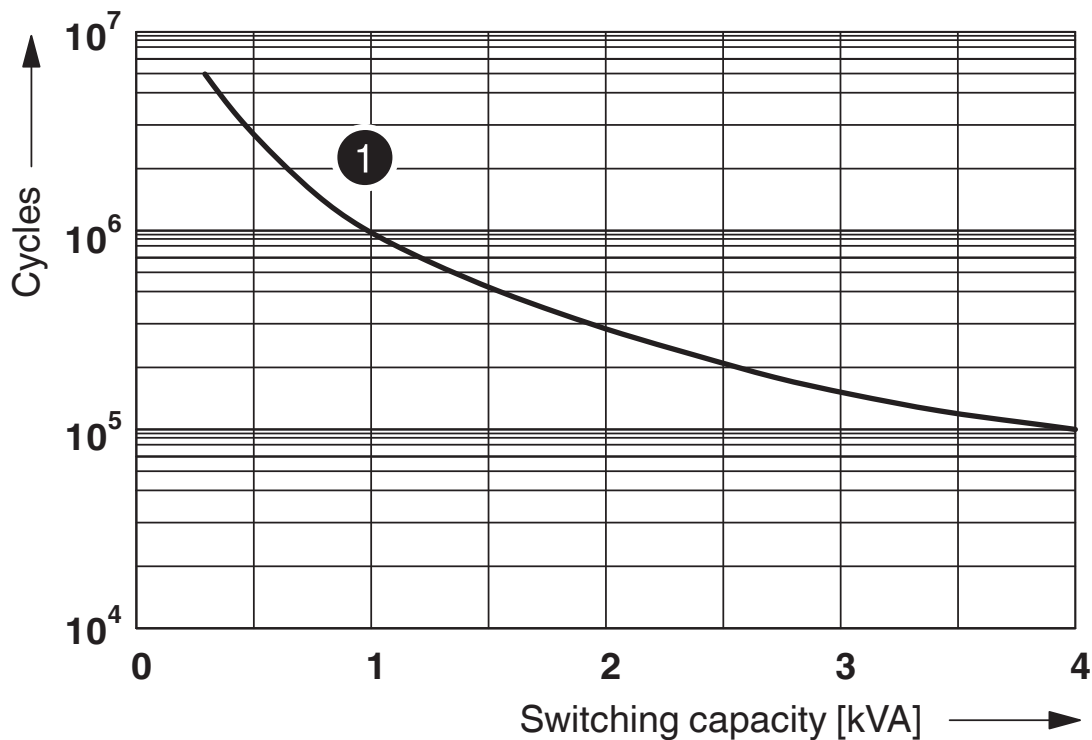
Diagram



- ① AC, ohmic load
- ② DC, ohmic load

Interrupting rating

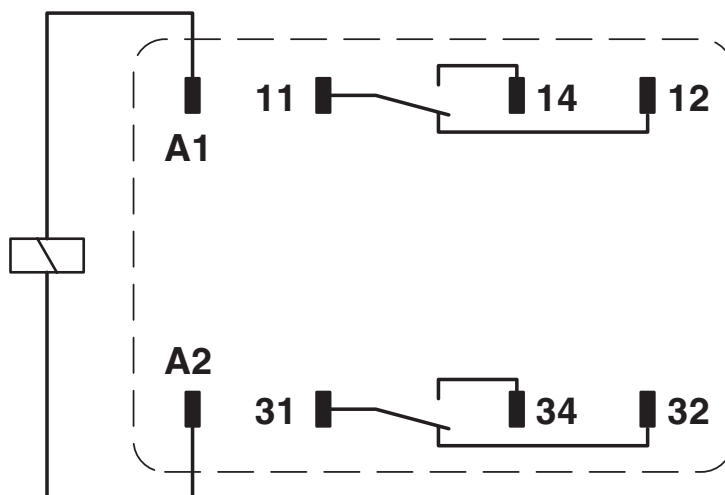
Diagram



① 250 V AC, Ohmic load

Electrical service life

Circuit diagram





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## Classifications

### ECLASS

ECLASS-11.0	27371601
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### 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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