

# REL-OR-120AC/3X21 - Single relay



2834290

<https://www.phoenixcontact.com/pc/products/2834290>

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Plug-in octal relays with power contacts, 3 changeover contacts, test button, mechanical switching position indicator, coil voltage: 120 V AC

## Your advantages

- Extremely rugged design
- With detectable manual operation
- Mechanical switch position indicator

## Commercial data

Item number	2834290
Packing unit	10 pc
Minimum order quantity	10 pc
Product key	DK6193
GTIN	4017918941888
Weight per piece (including packing)	110.39 g
Weight per piece (excluding packing)	103.75 g
Customs tariff number	85364900
Country of origin	CN

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## Technical data

### Product properties

Operating mode	100% operating factor
Mechanical service life	10x 10 <sup>6</sup> cycles

### Insulation characteristics

Overvoltage category	II
Pollution degree	3

### Data management status

Date of last data management	05.09.2025
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### Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	2.64 W
Test voltage (Winding/contact)	2.5 kV AC (50 Hz, 1 min., winding/contact)
Test voltage (Contact/contact)	2.5 kV AC (50 Hz, 1 min., contact/contact)

### Input data

#### Coil side

Nominal input voltage $U_N$	120 V AC
Input voltage range	19.2 V AC ... 26.4 V AC
Input voltage range in reference to $U_N$	0.8 ... 1.1
Mains frequency	50/60 Hz
Drive and function	monostable
Typical input current at $U_N$	22 mA (at 50 Hz) 20 mA (At 60 Hz)
Typical response time	5 ms ... 20 ms (AC, depending on phase relation)
Typical release time range	5 ms ... 20 ms (AC, depending on phase relation)
Coil resistance	1520 $\Omega$ $\pm$ 15 % (at 20 °C)

### Output data

#### Switching

Contact switching type	3 changeover contacts
Type of switch contact	Single contact
Contact material	AgSnIn
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	1 V
Limiting continuous current	10 A (N/O contact) 5 A (N/C contact)
Maximum inrush current	on request
Min. switching current	10 mA

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Interrupting rating (ohmic load) max.	2500 VA (for 250 V AC)
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## Connection data

Connection method	Plug-in connection
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## Dimensions

Width	34.5 mm
Height	34.5 mm
Depth	52.5 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	RT I
Ambient temperature (operation)	-40 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 60 °C

## Standards and regulations

Standards/regulations	IEC 60664
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## Mounting

Assembly note	On relay base PR3
Mounting position	any

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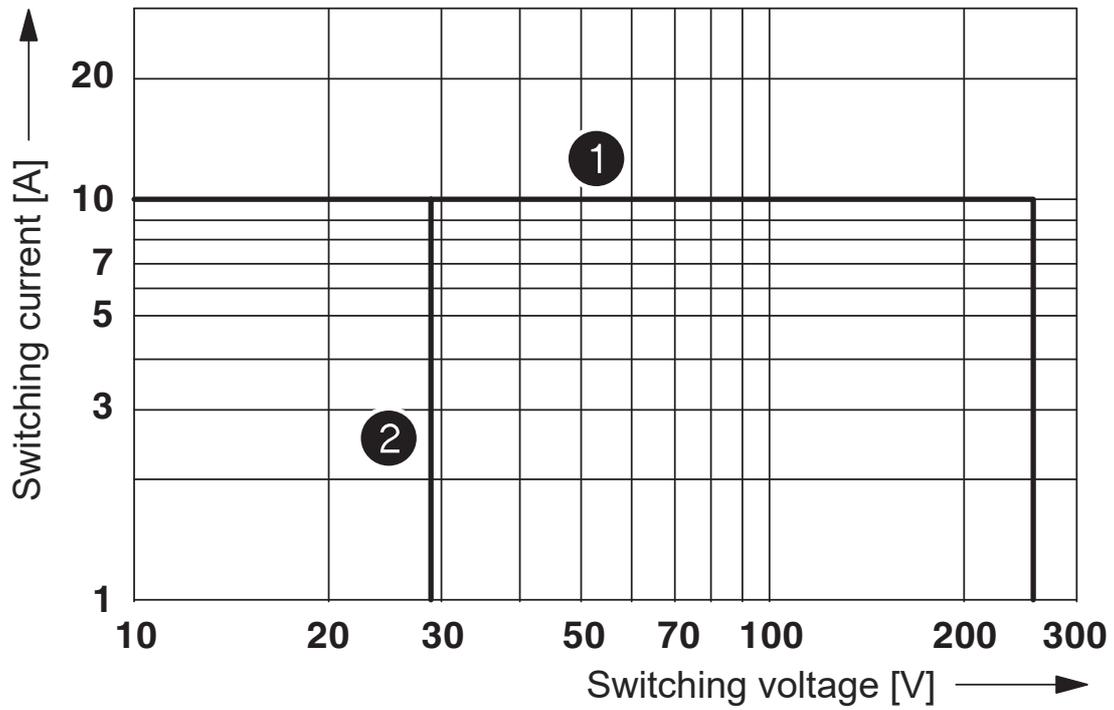


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## Drawings

Diagram



- ① AC, ohmic load
- ② DC, ohmic load

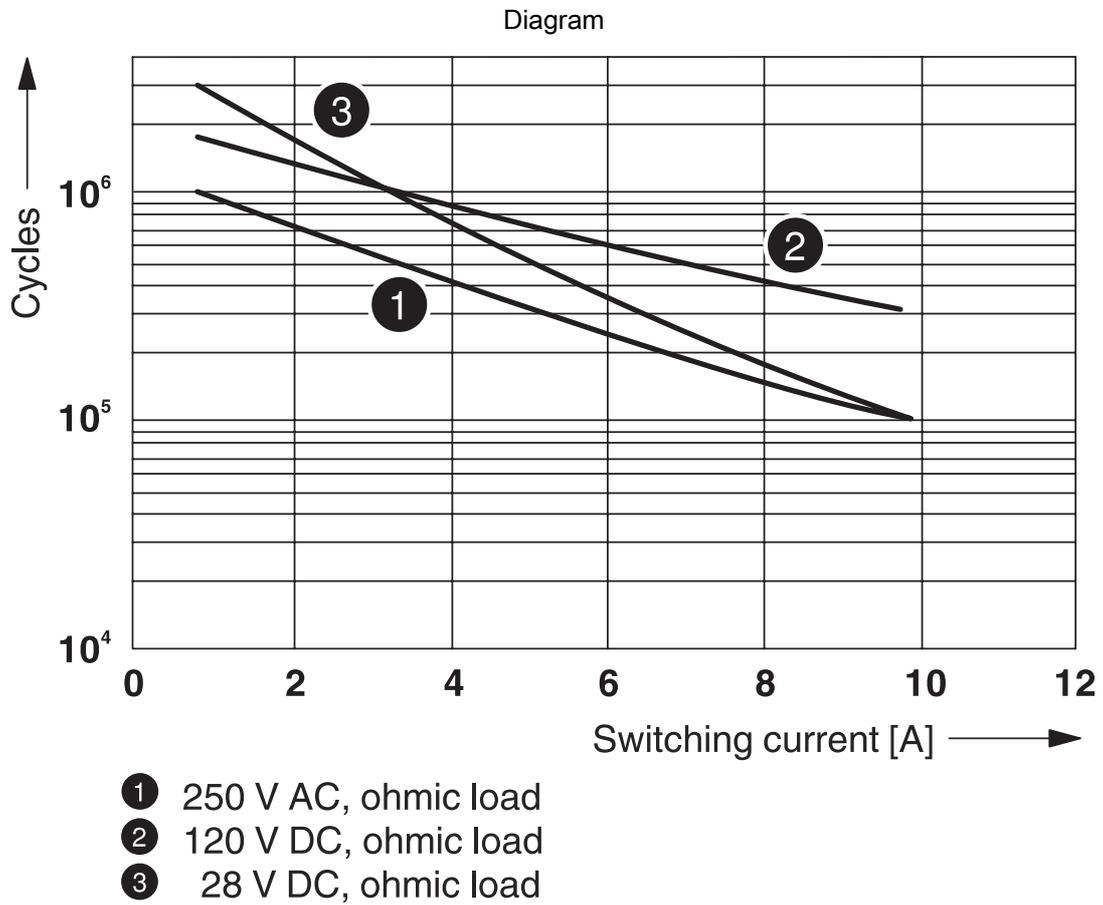
Interrupting rating

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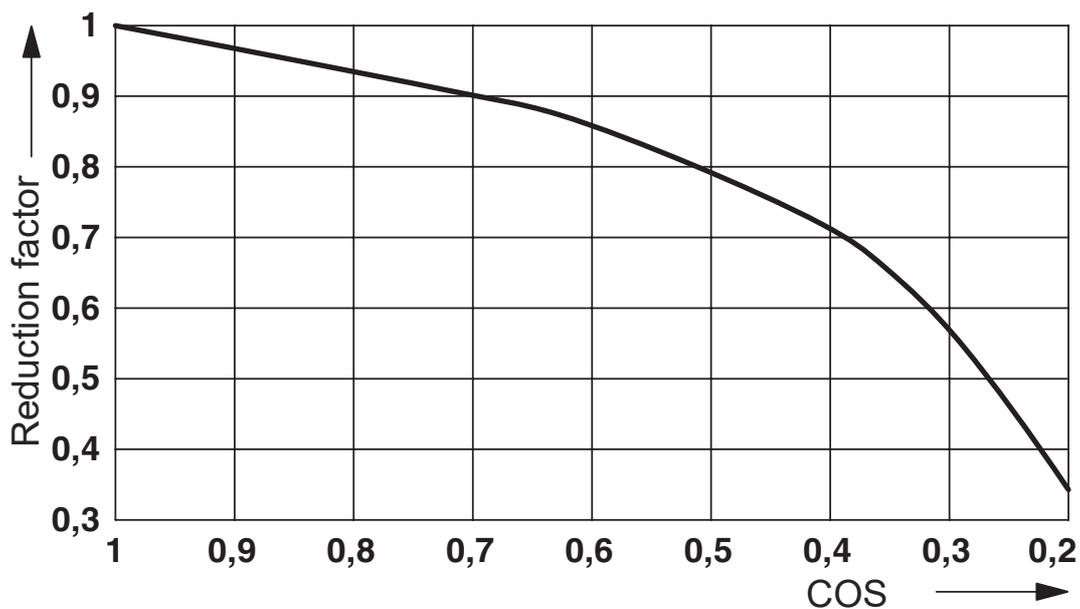
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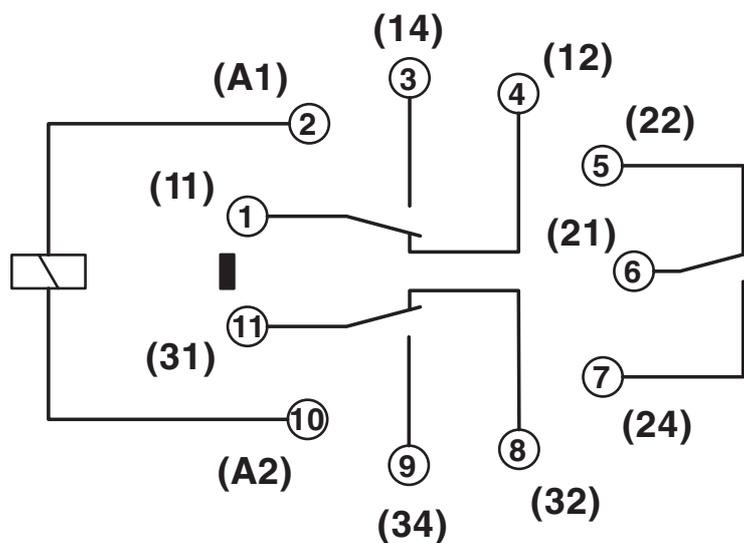
Electrical service life

Diagram



Service life reduction factor with various cos phi

Circuit diagram



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## Classifications

### UNSPSC

UNSPSC 21.0	39122334
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## Environmental product compliance

### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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