

# REL-IR/L- 24AC/2X21 - Single relay



2834054

<https://www.phoenixcontact.com/us/products/2834054>

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Plug-in industrial relays with power contacts, 2 changeover contacts, test button, status LED, mechanical switching position indicator, input voltage: 24 V AC

## Your advantages

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

## Commercial data

Item number	2834054
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK6193
GTIN	4017918941642
Weight per piece (including packing)	35.63 g
Weight per piece (excluding packing)	35.63 g
Customs tariff number	85364190
Country of origin	JP

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## Technical data

### Product properties

Product type	Single relay
Operating mode	100% operating factor
Mechanical service life	5x 10 <sup>7</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	1.3 W
Test voltage (Winding/contact)	2 kV AC (50 Hz, 1 min., winding/contact)
Test voltage (Contact/contact)	2 kV AC (50 Hz, 1 min., contact/contact)

### Input data

#### Coil side

Nominal input voltage U <sub>N</sub>	24 V AC
Input voltage range	18.7 V AC ... 36 V AC
Mains frequency	50/60 Hz
Drive and function	monostable
Typical input current at U <sub>N</sub>	54 mA (at 50 Hz) 46 mA (At 60 Hz)
Typical response time	4 ms ... 10 ms (AC, depending on phase relation)
Typical release time range	3 ms ... 12 ms (AC, depending on phase relation)
Coil resistance	180 Ω ±15 % (at 20 °C)

### Output data

#### Switching

Contact switching type	2 changeover contacts
Type of switch contact	Single contact
Contact material	Ag
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V
Limiting continuous current	10 A
Maximum inrush current	20 A (15 ms)
Min. switching current	1 mA
Interrupting rating (ohmic load) max.	2500 VA (for 250 V AC)

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## Connection data

### Coil side

Connection method	Plug / solder connection
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### Contact side

Connection method	Plug / solder connection
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## Dimensions

Width	21.5 mm
Height	28 mm
Depth	36 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	RT I
Ambient temperature (operation)	-55 °C ... 70 °C
Ambient temperature (storage/transport)	-55 °C ... 70 °C

## Standards and regulations

Standards/regulations	DIN EN 61810-1
	VDE 0435-201
	EN 50178

## Mounting

Assembly note	On relay base PR2
Mounting position	any

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## Drawings

Diagram



Operating voltage range

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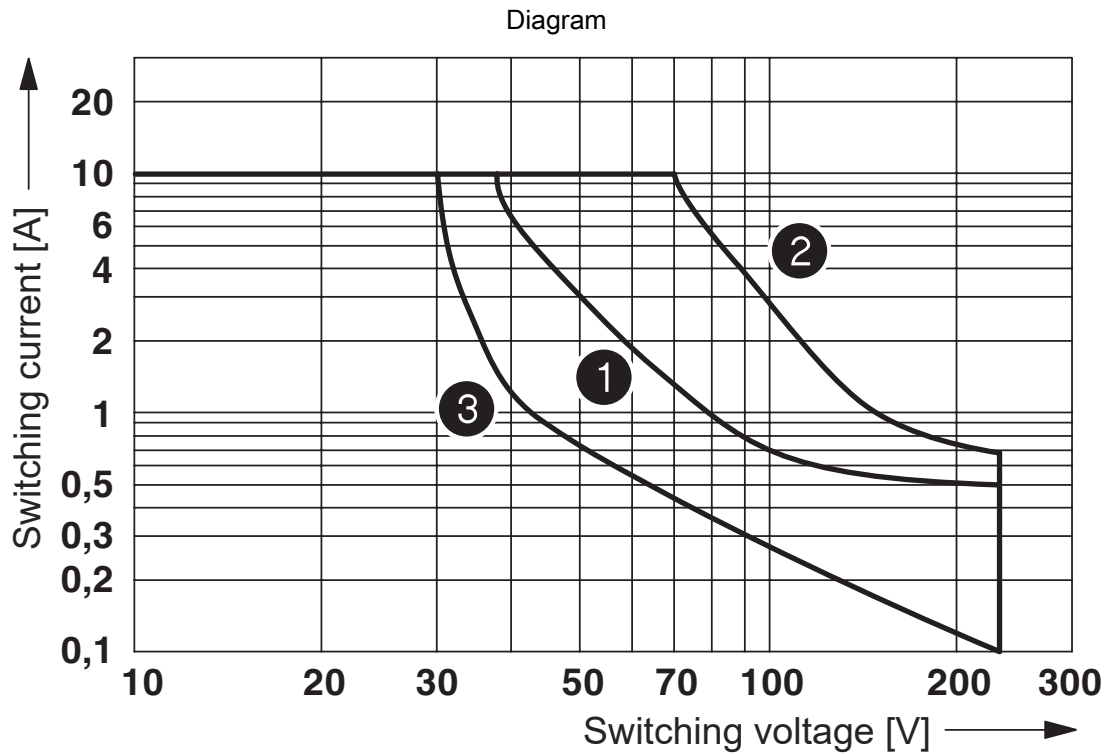
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Diagram



AC interrupting rating



- ① Ohmic load
- ② ohmic load, contacts in series
- ③  $L/R < 7$  ms

DC interrupting rating

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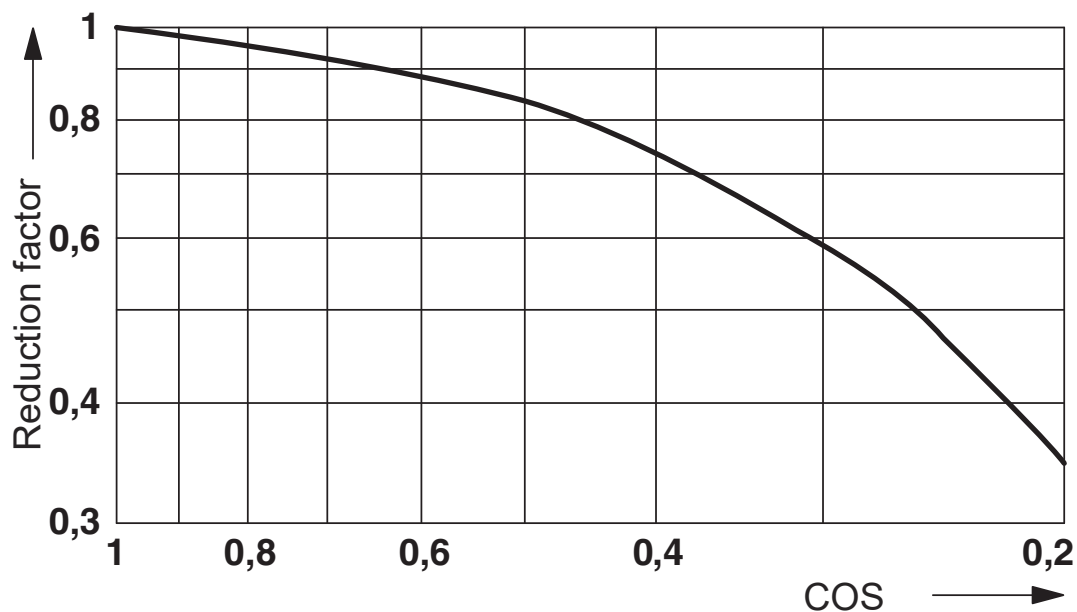
- ① 250 V AC, ohmic load
- ② 30 V DC, ohmic load

Electrical service life

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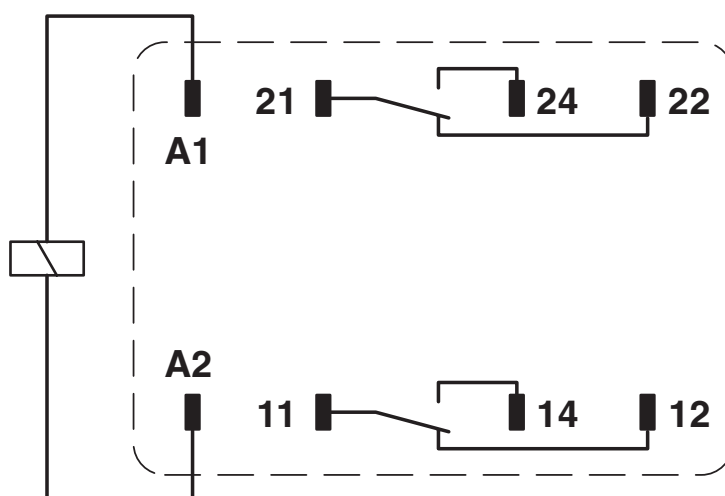
<https://www.phoenixcontact.com/us/products/2834054>

Diagram



Service life reduction factor

Circuit diagram



Shown without LED and damping diode.

Contacts 21, 22, 24 are led onto relay base connections 41, 42, 44.

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## Classifications

### UNSPSC

UNSPSC 21.0	39122334
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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