

REL-IR/LDM- 48DC/2X21 - Single relay



2834177

<https://www.phoenixcontact.com/us/products/2834177>

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Plug-in industrial relay with power contacts, 2 changeover contacts, test button, status LED, freewheeling diode, mechanical switching position indicator, polarity **A1-**, **A2+**, input voltage 48 V DC

Your advantages

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

Commercial data

Item number	2834177
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK6193
GTIN	4017918941710
Weight per piece (including packing)	38.59 g
Weight per piece (excluding packing)	38.59 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 ⁷ cycles

Insulation characteristics

Overvoltage category	II
Pollution degree	2

Data management status

Date of last data management	01.04.2026
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Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	0.91 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_N	48 V DC
Input voltage range	37.4 V DC ... 72 V DC
Drive and function	monostable
Typical input current at U_N	19 mA
Typical response time	13 ms
Typical release time	14 ms
Coil resistance	2560 Ω \pm 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)

Connection data

Connection method	Plug-in 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

Drawings

Diagram



Operating voltage range

Diagram



AC interrupting rating

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

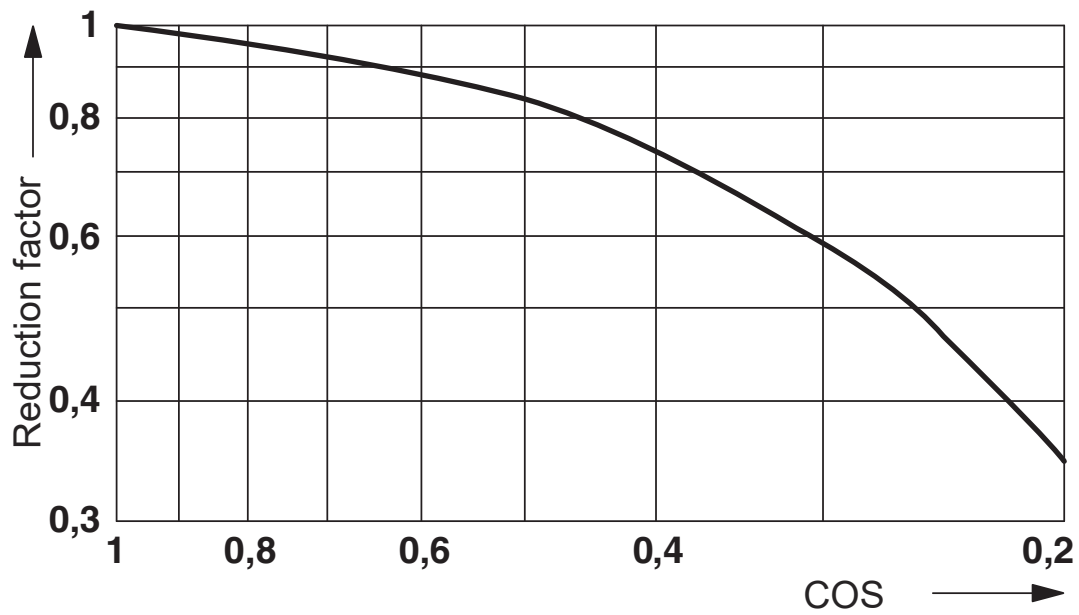
DC interrupting rating



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

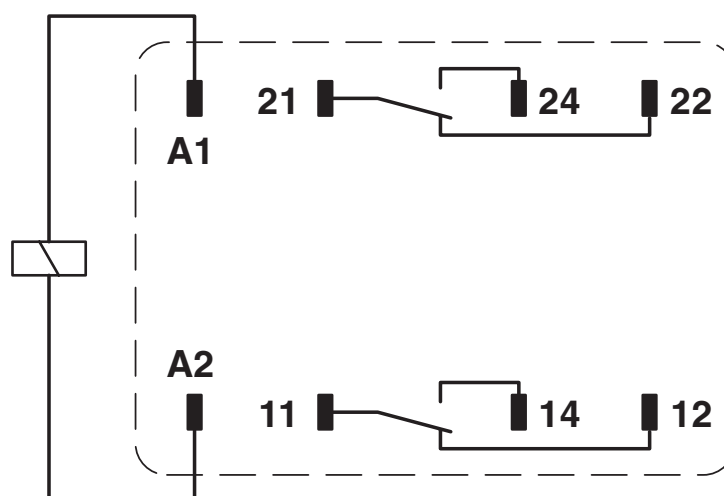
Electrical service life

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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