

REL-IR/LDP- 12DC/2X21 - Single relay



2834012

<https://www.phoenixcontact.com/us/products/2834012>

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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 12 V DC

Your advantages

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

Commercial data

Item number	2834012
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK6193
GTIN	4017918941611
Weight per piece (including packing)	38.24 g
Weight per piece (excluding packing)	38.24 g
Customs tariff number	85364190
Country of origin	JP

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	0.9 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	12 V DC
Input voltage range	9.4 V DC ... 18 V DC
Input voltage range in reference to U_N	see diagram
Drive and function	monostable
Typical input current at U_N	75 mA
Typical response time	13 ms
Typical release time	14 ms
Coil resistance	160 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

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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

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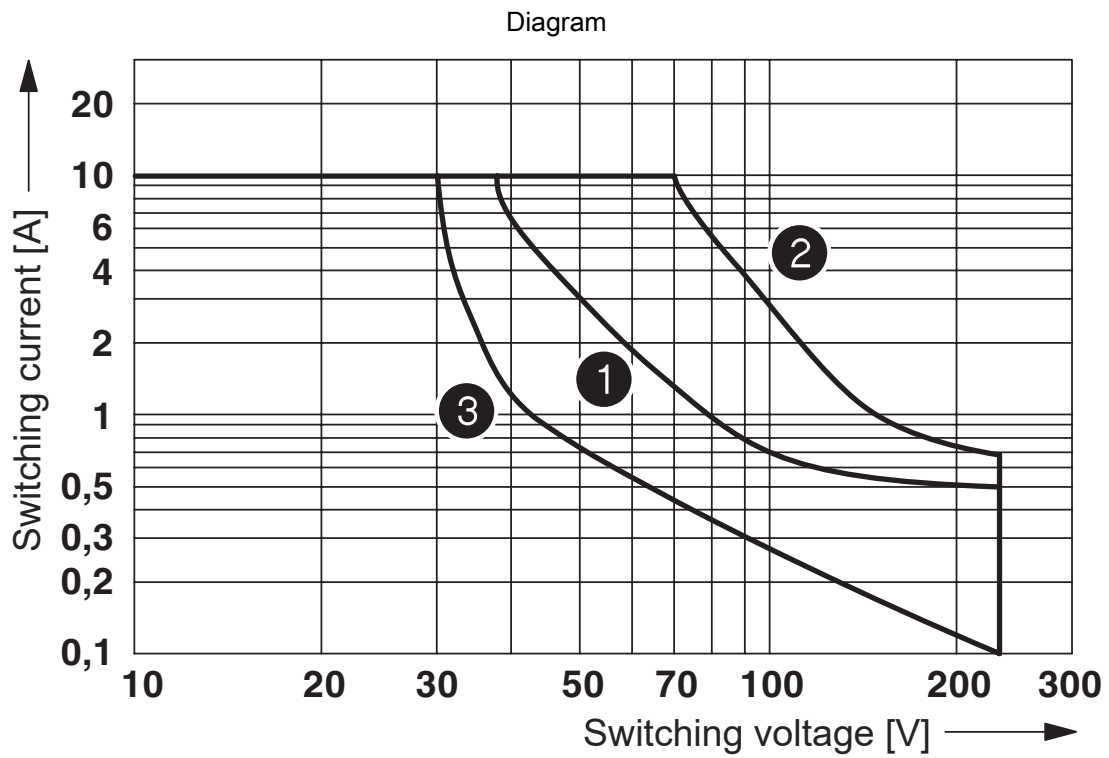
Diagram



AC interrupting rating

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

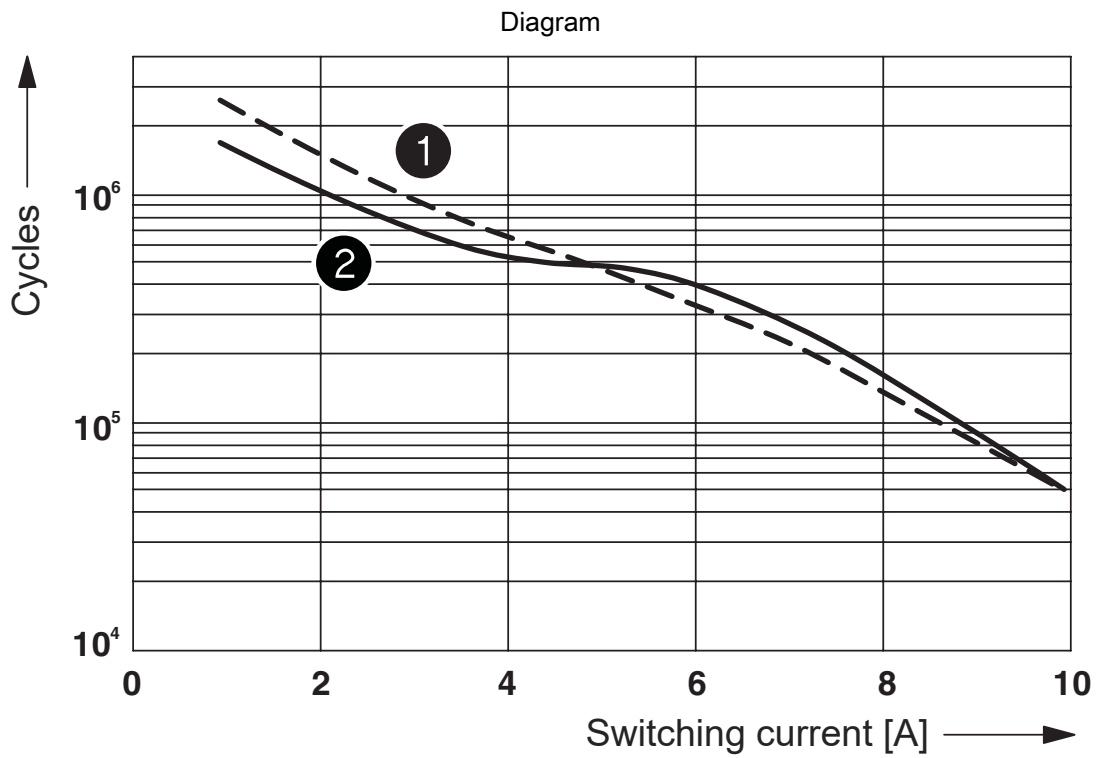
DC interrupting rating

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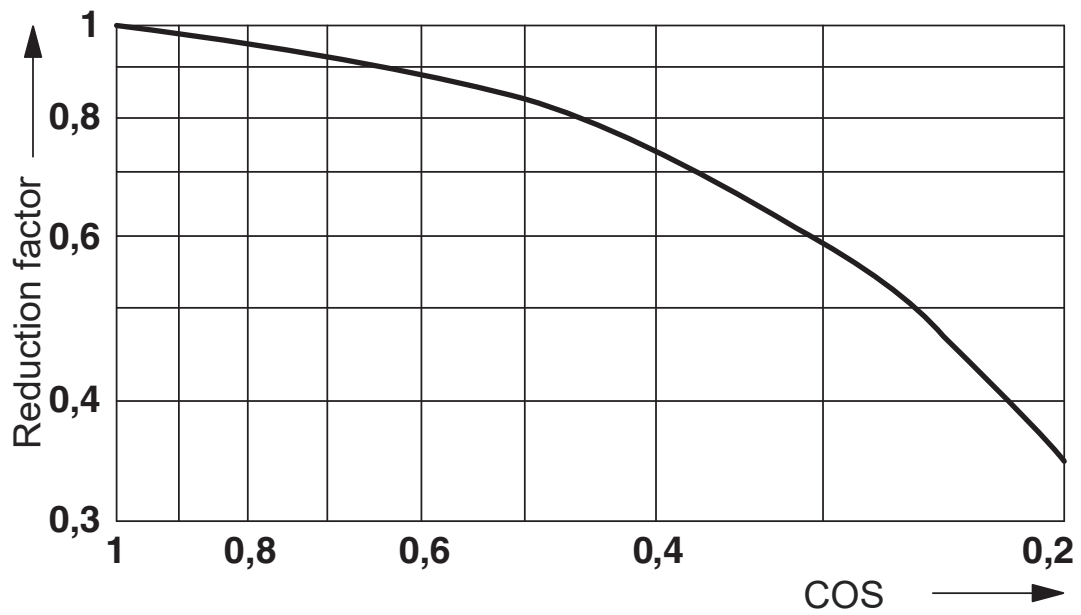
- ① 250 V AC, ohmic load
- ② 30 V DC, ohmic load

Electrical service life

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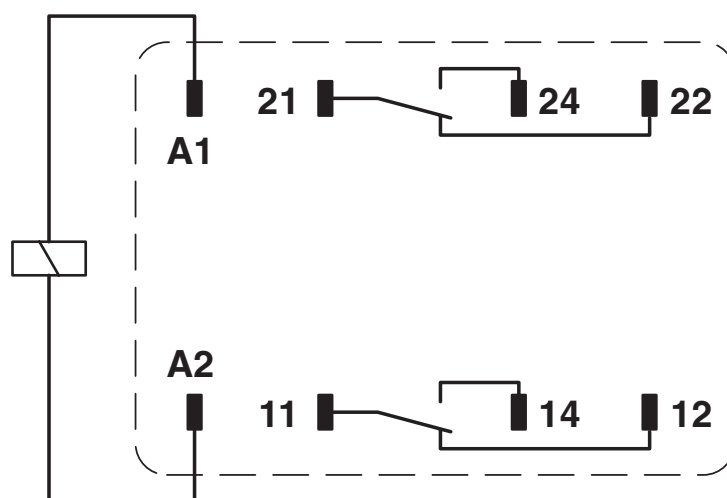
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Diagram



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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