

REL-IR/LDP- 60DC/4X21AU - Single relay



2833961

<https://www.phoenixcontact.com/us/products/2833961>

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Plug-in industrial relay with power contacts and additional hard gold plating, 4 changeover contacts, test button, status LED, freewheeling diode, mechanical switching position indicator, polarity: **A1+**, **A2-**, coil voltage: 60 V DC

Commercial data

Item number	2833961
Packing unit	10 pc
Minimum order quantity	10 pc
Product key	CK6193
GTIN	4046356479868
Weight per piece (including packing)	39.5 g
Weight per piece (excluding packing)	39.5 g
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

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	60 V DC
Input voltage range	46.8 V DC ... 90 V DC
Drive and function	monostable
Typical input current at U _N	15 mA
Typical response time	13 ms
Typical release time	5 ms
Coil resistance	3977 Ω ±15 % (at 20 °C)

Output data

Switching

Contact switching type	4 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi, hard gold-plated
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	1 V
Limiting continuous current	5 A
Maximum inrush current	12 A (15 ms)
Min. switching current	1 mA
Interrupting rating (ohmic load) max.	1250 VA (for 250 V AC)

Connection data

Connection method	Plug-in connection
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Dimensions

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Width	21.5 mm
Height	28 mm
Depth	36 mm

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-55 °C ... 70 °C
Ambient temperature (storage/transport)	-55 °C ... 70 °C

Standards and regulations

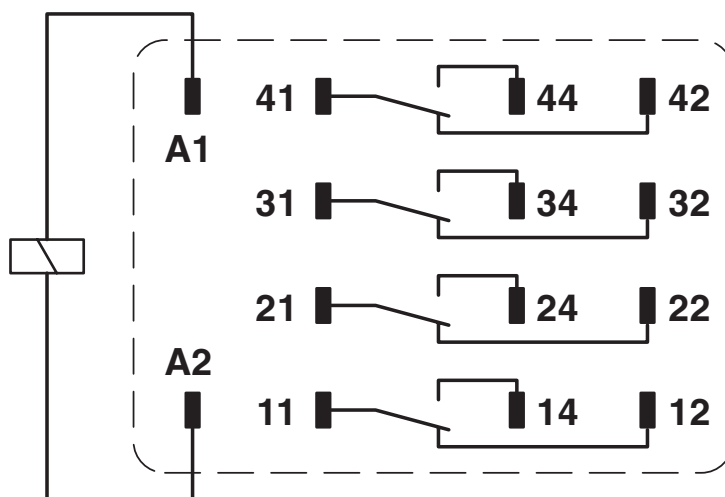
Standards/regulations	EN 61810-1
	EN 50178

Mounting

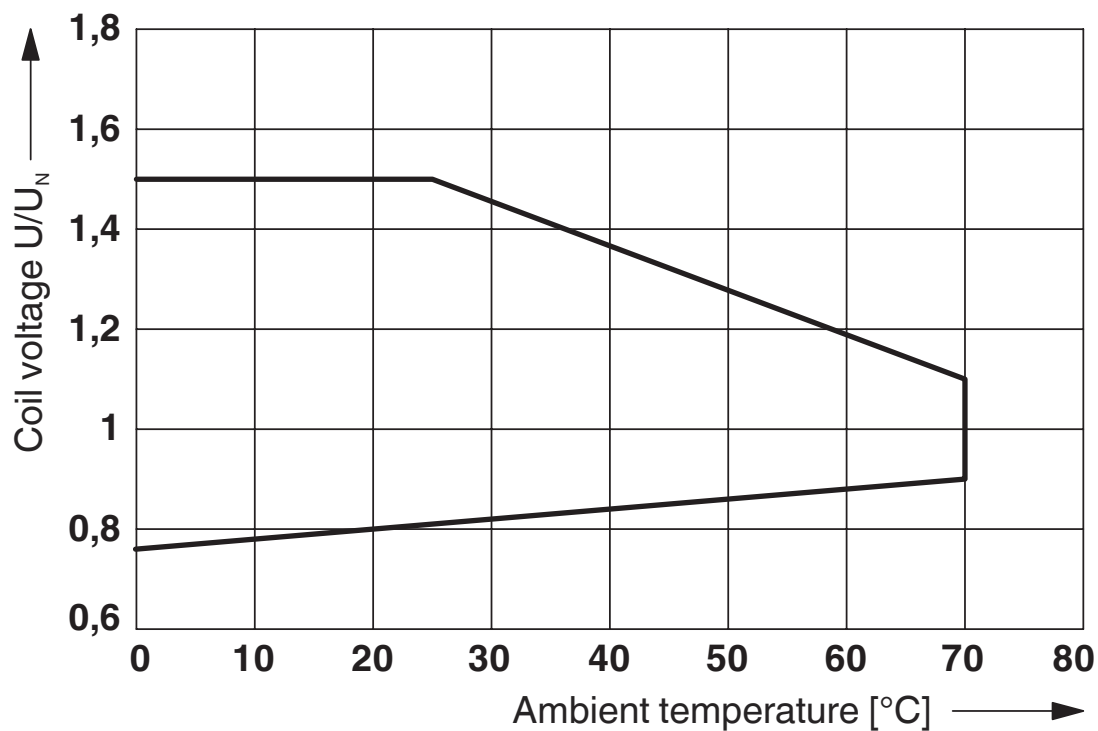
Assembly note	On relay base PR2
Mounting position	any

Drawings

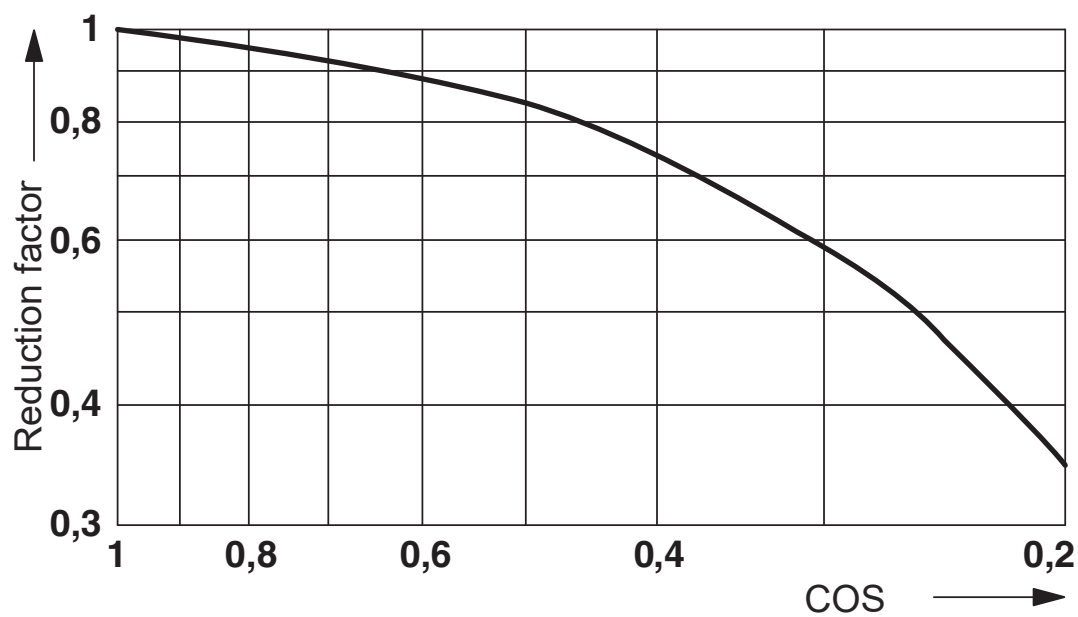
Circuit diagram



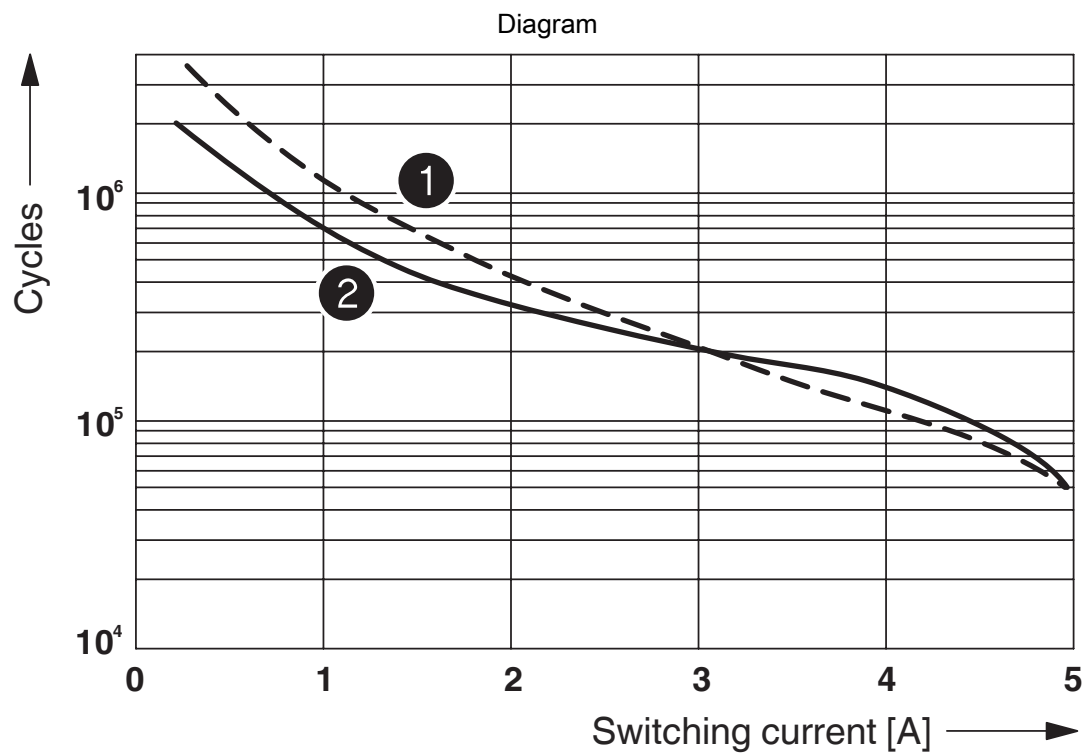
Diagram



Diagram



Service life reduction factor

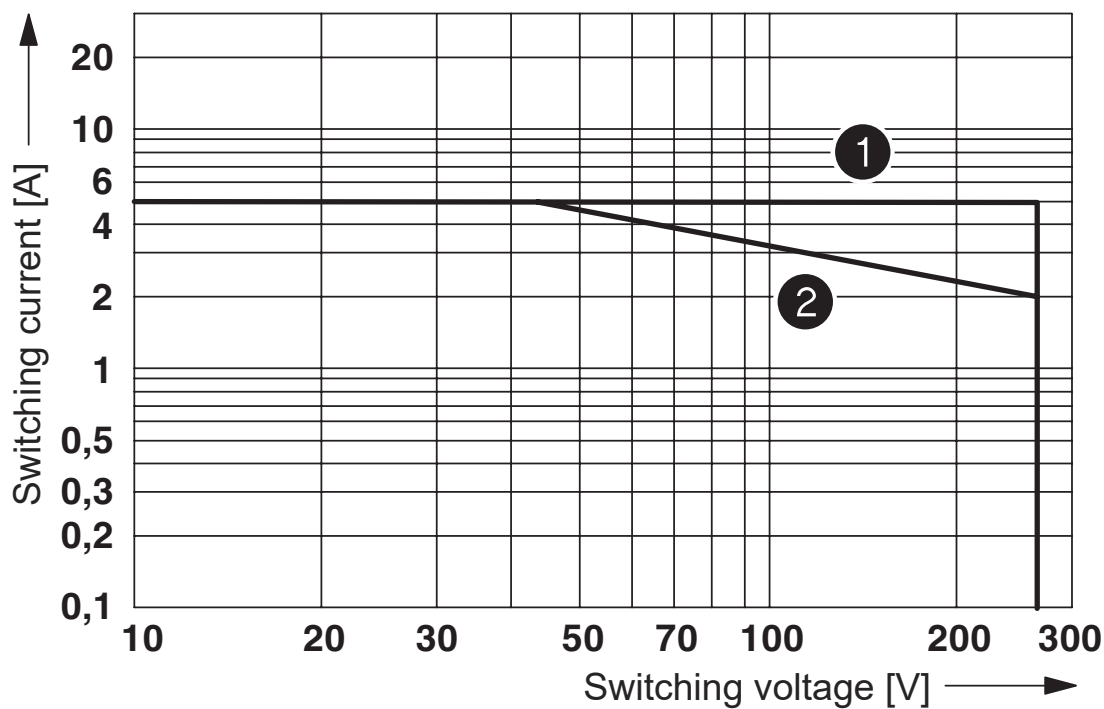


① 250 V AC, ohmic load

② 30 V DC, ohmic load

Electrical service life

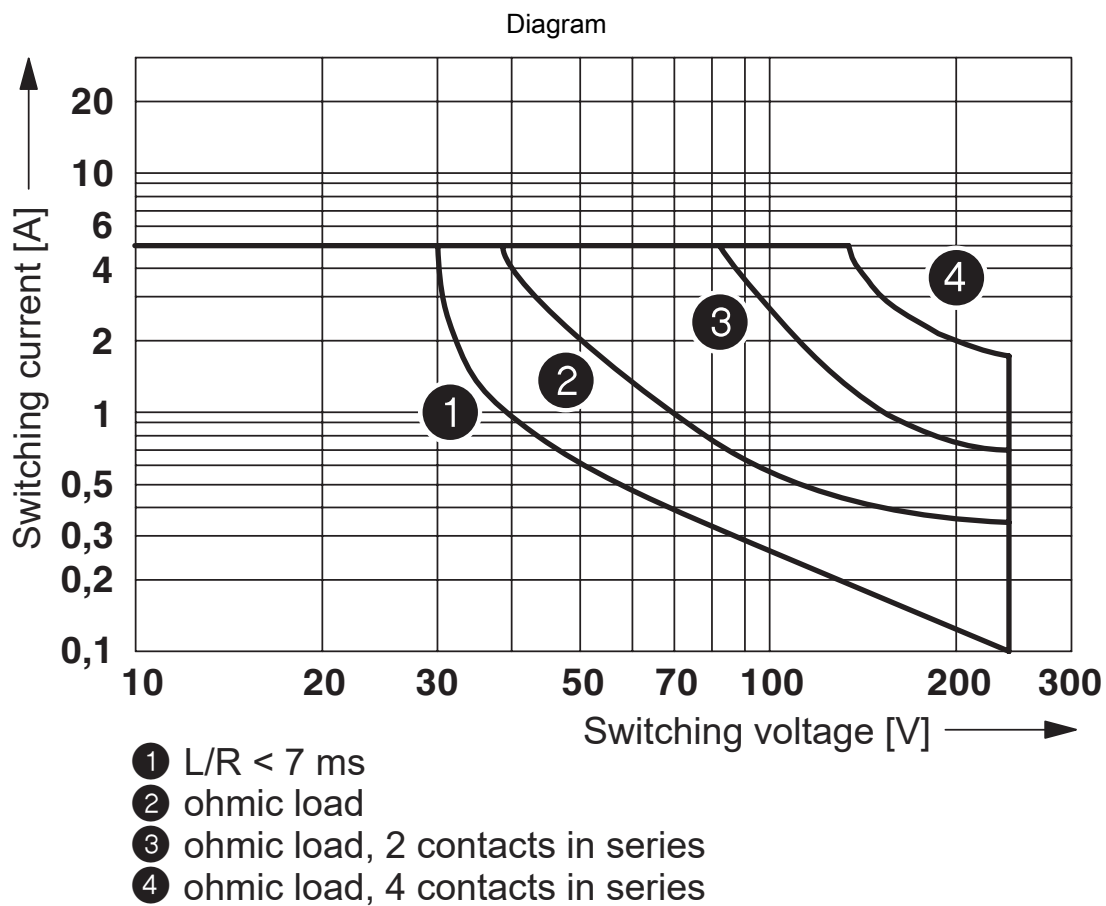
Diagram



- ① Ohmic load
② $\cos \varphi = 0.4$

AC interrupting rating

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DC interrupting rating

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Classifications

ECLASS

ECLASS-11.0	27371601
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UNSPSC

UNSPSC 21.0	39122334
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com