

REL-OR- 24AC/2X21 - Single relay



2834245

<https://www.phoenixcontact.com/pc/products/2834245>

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Plug-in octal relays with power contacts, 2 changeover contacts, test button, mechanical switching position indicator, coil voltage: 24 V AC

Your advantages

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

Commercial data

Item number	2834245
Packing unit	10 pc
Minimum order quantity	10 pc
Product key	CK6193
Catalog page	Page 390 (C-7-2015)
GTIN	4017918941765
Weight per piece (including packing)	111.05 g
Weight per piece (excluding packing)	111.05 g
Customs tariff number	85364190
Country of origin	CN

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Technical data

Product properties

Product type	Single relay
Operating mode	100% operating factor
Mechanical service life	10x 10 ⁶ cycles

Insulation characteristics

Overvoltage category	II
Pollution degree	3

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	24 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	110 mA (at 50 Hz) 96 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	62 Ω ±15 % (at 20 °C)

Output data

Switching

Contact switching type	2 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
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

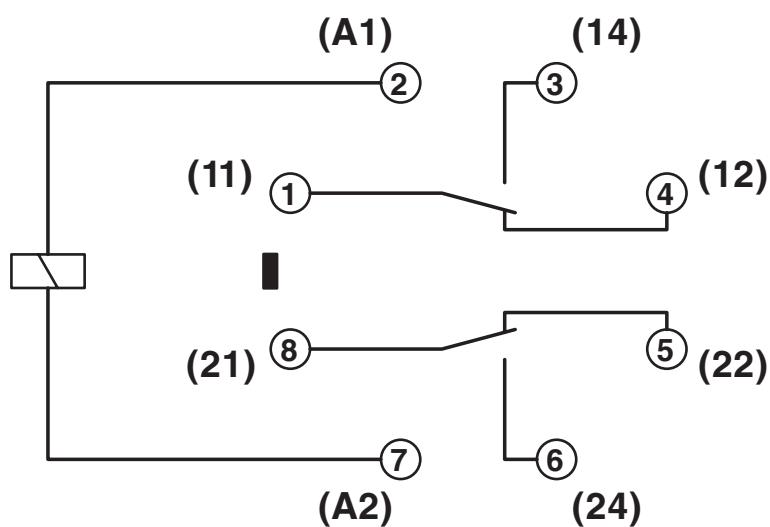
Standards/regulations	IEC 60664
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Mounting

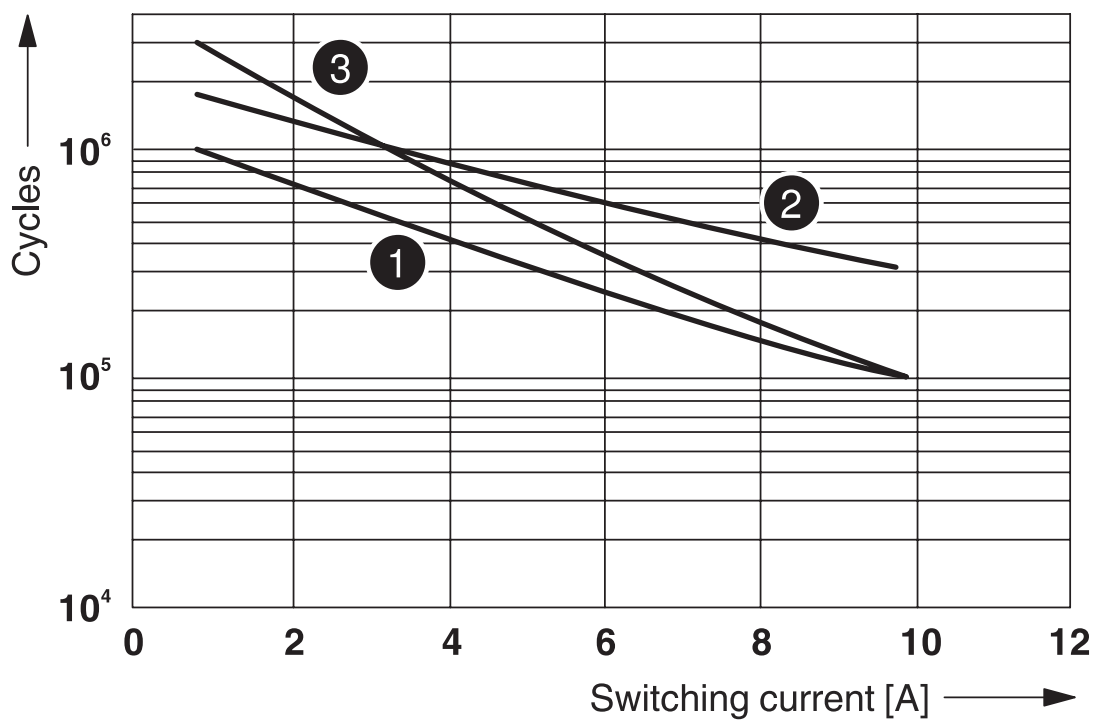
Assembly note	On relay base PR3
Mounting position	any

Drawings

Circuit diagram



Diagram

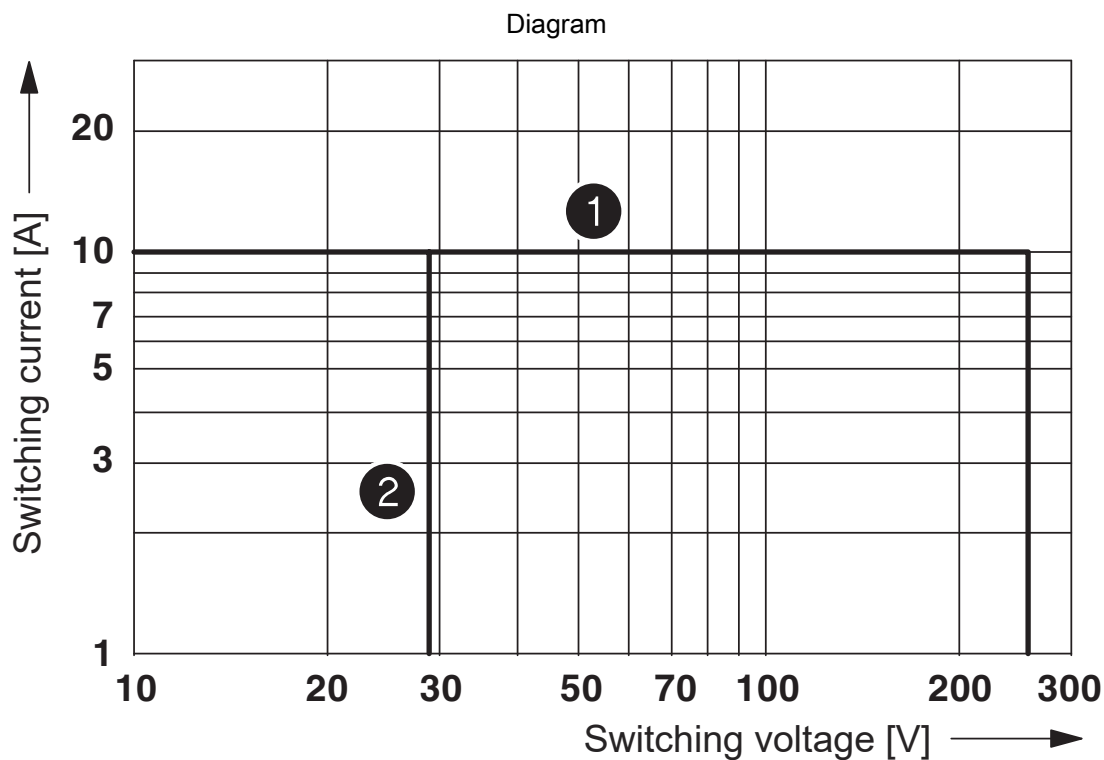


- ① 250 V AC, ohmic load
- ② 120 V DC, ohmic load
- ③ 28 V DC, ohmic load

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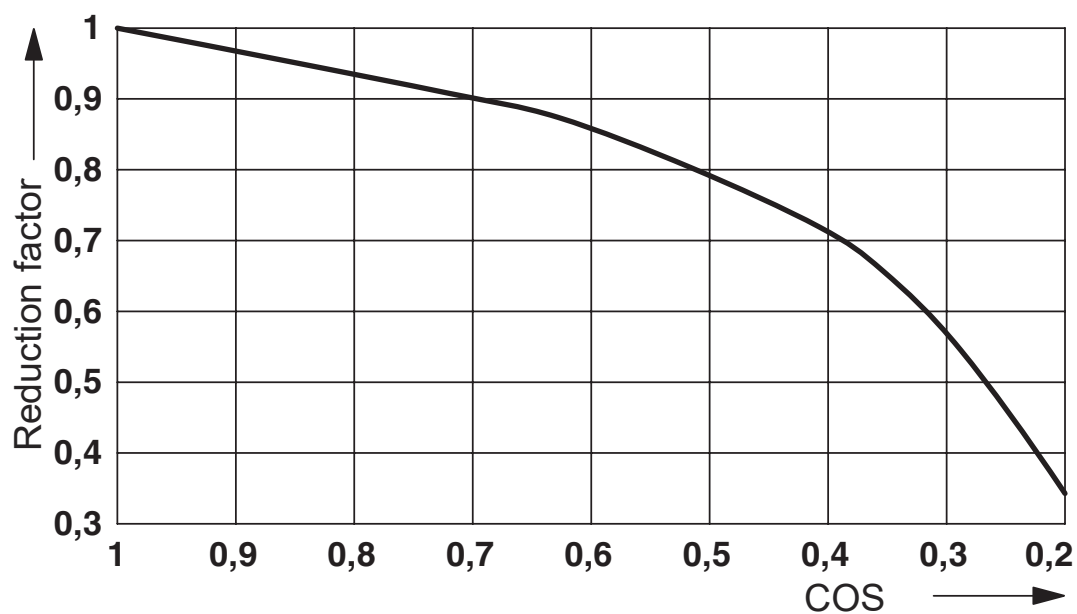
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- ① AC, ohmic load
- ② DC, ohmic load

Interrupting rating

Diagram



Service life reduction factor with various cos phi

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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

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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