

REL-MR-BL-100AC/21HC/MS - Single relay



2908179

<https://www.phoenixcontact.com/pc/products/2908179>

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Plug-in miniature relay, with power contact, 1 changeover contact, test button, mechanical switch position indicator, polarity: bipolar, input voltage: 100 V AC

Commercial data

Item number	2908179
Packing unit	10 pc
Minimum order quantity	10 pc
Product key	CK6195
Catalog page	Page 294 (C-5-2019)
GTIN	4055626277882
Weight per piece (including packing)	17.68 g
Weight per piece (excluding packing)	17 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	5x 10 ⁶ cycles

Data management status

Date of last data management	20.04.2023
Article revision	02

Insulation characteristics

Overvoltage category	III
Pollution degree	2

Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	0.8 W
Test voltage (Winding/contact)	5 kV AC (50 Hz, 1 min., winding/contact)
Rated insulation voltage	250 V AC

Input data

Coil side

Nominal input voltage U_N	100 V AC
Input voltage range	80 V AC ... 135 V AC
Input voltage range in reference to U_N	0.8 ... 1.35 (see diagram)
Mains frequency	50/60 Hz
Drive and function	monostable
Typical input current at U_N	8 mA
Typical response time	3 ms ... 12 ms (depending on phase relation)
Typical release time range	2 ms ... 8 ms (depending on phase relation)

Output data

Switching

Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (at 10 mA)
Limiting continuous current	16 A
Maximum inrush current	32 A (20 ms)
Min. switching current	10 mA (at 12 V) 384 W (at 24 V DC)

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Interrupting rating (ohmic load) max.	62 W (at 48 V DC)
	48 W (at 60 V DC)
	53 W (at 110 V DC)
	66 W (at 220 V DC)

Connection data

Connection method	Solder connection
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Dimensions

Width	13 mm
Height	29 mm
Depth	25.5 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	RT II
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Standards and regulations

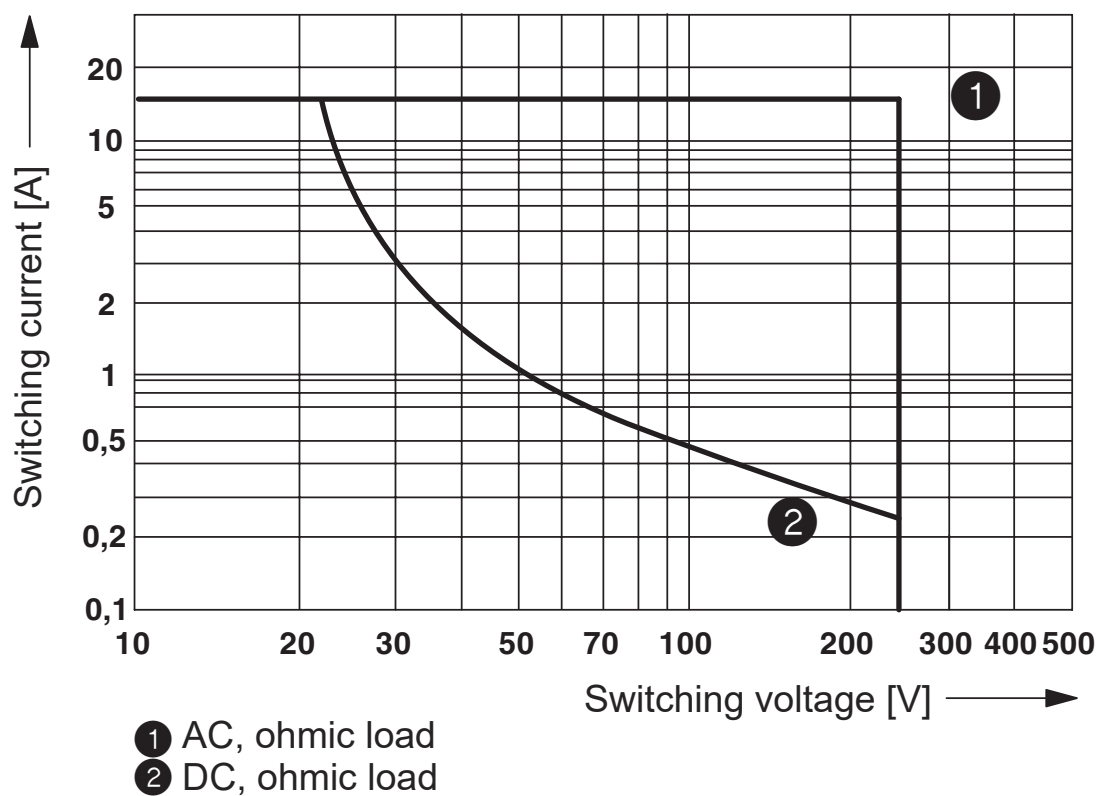
Standards/regulations	IEC 61810
	IEC 60664

Mounting

Mounting position	any
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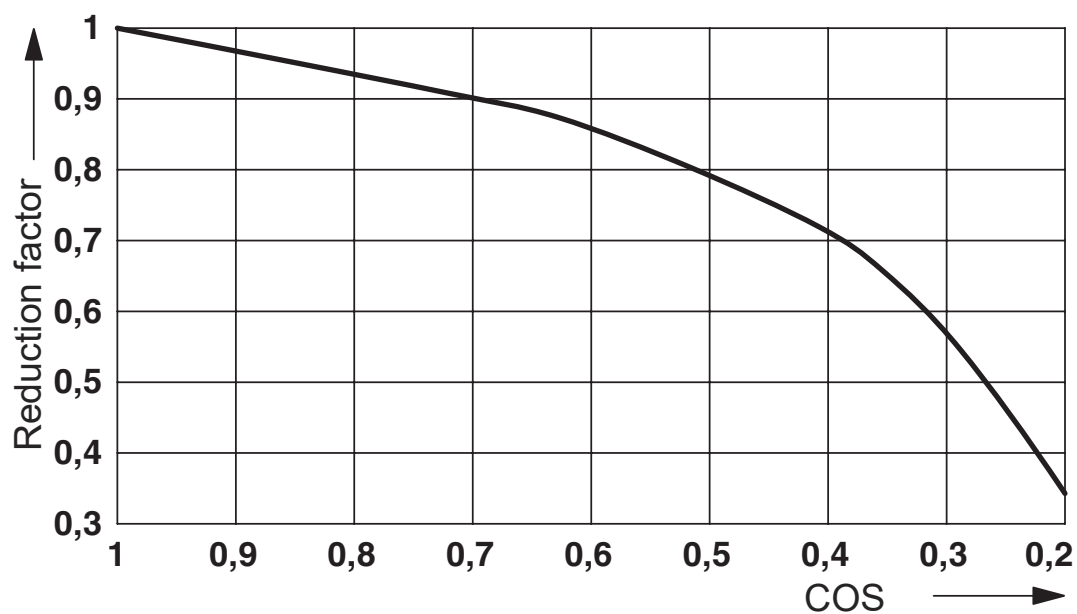
Drawings

Diagram



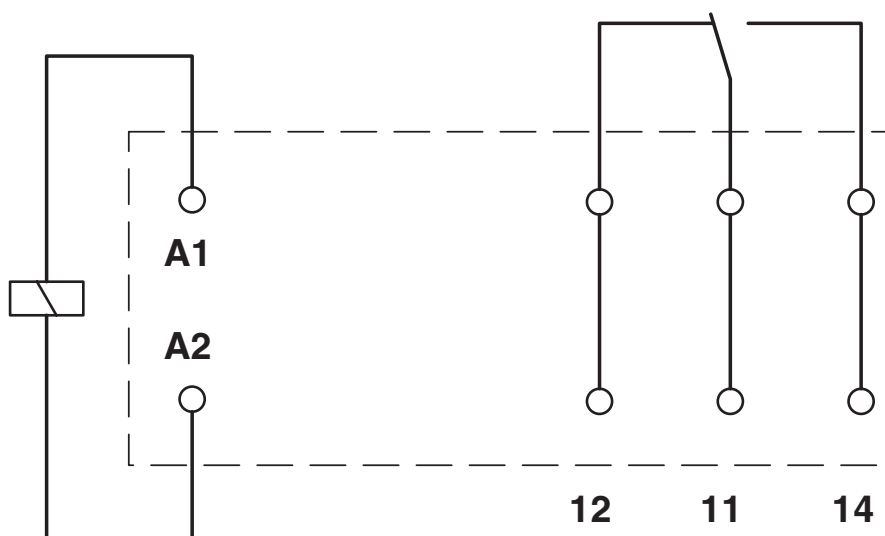
Interrupting rating

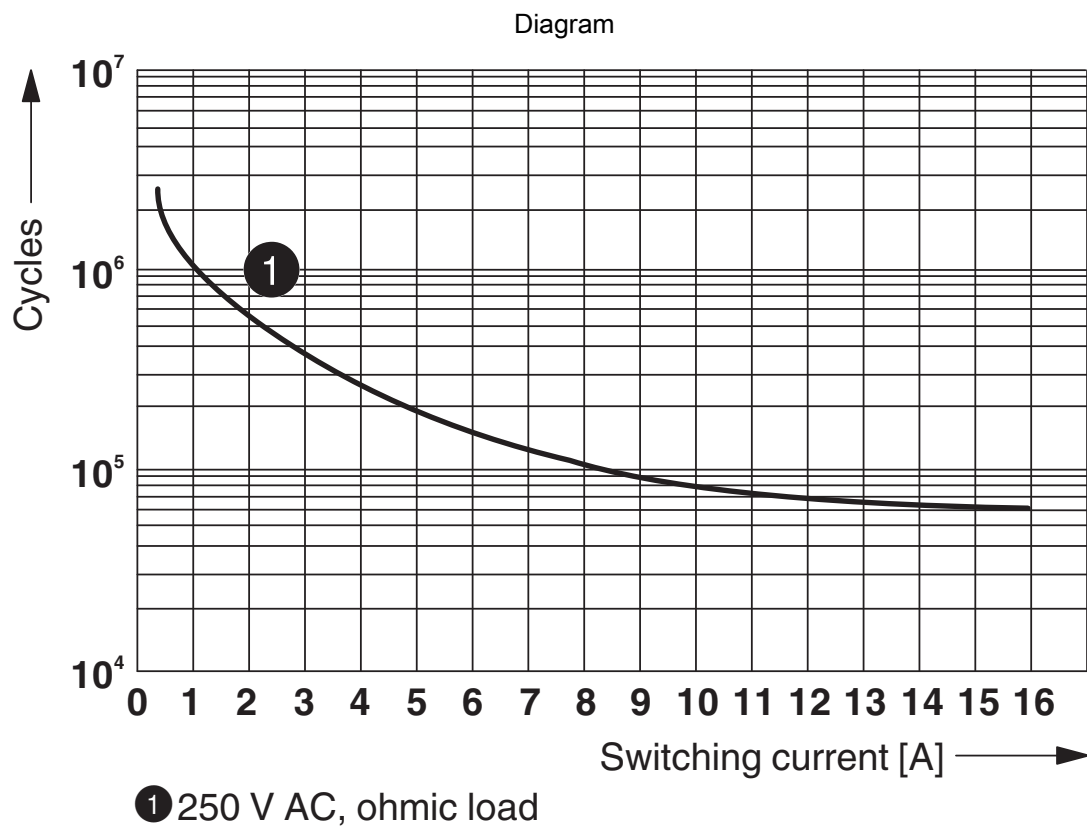
Diagram



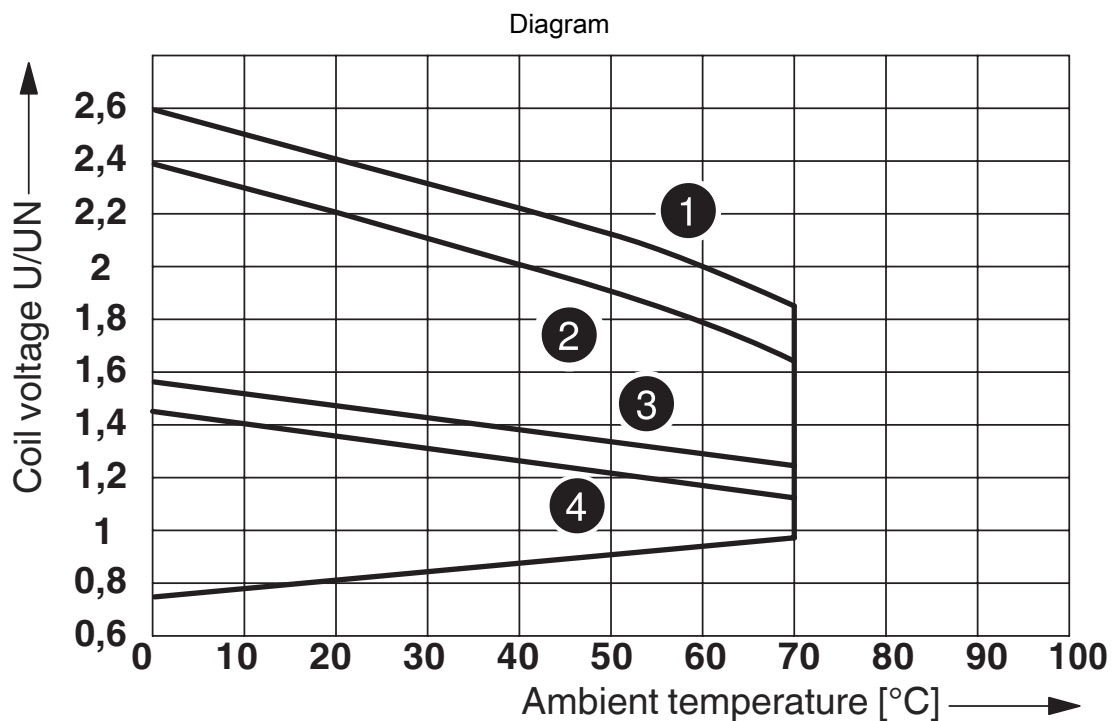
Service life reduction factor with various cos phi

Circuit diagram





Electrical service life



- ① DC coils, 0 A contact current
- ② DC coils, 16 A contact current
- ③ AC coils, 0 A contact current
- ④ AC coils, 16 A contact current

Operating voltage range

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Classifications

ECLASS

ECLASS-11.0	27371601
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ETIM

ETIM 8.0	EC001437
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UNSPSC

UNSPSC 21.0	39122300
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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-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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