REL-PR-BL-230VAC/4X21 - Single relay

1157966

https://www.phoenixcontact.com/us/products/1157966

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Plug-in power relay, basic version, Plug-in connection, 4 changeover contacts, status display: LED (green), Input voltage: 230 V AC

Commercial data

Item number	1157966
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	DKF96W
GTIN	4063151163549
Weight per piece (including packing)	71.4 g
Weight per piece (excluding packing)	71.4 g
Customs tariff number	85364900
Country of origin	CN

Technical data

Notes

Notes on operation	The outputs are not suitable for switching different outer conductors.
Notes on operation	Do not use to separate SELV / PELV circuits from other circuits, because safe isolation is not guaranteed.

Product properties

Product type	Single relay
Product family	ESSENTIAL edition
Operating mode	100% operating factor
Mechanical service life	approx. 10^7 cycles

Insulation characteristics: Air clearances and creepage distances between the power circuits

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Data management status

Date of last data management	05.09.2025

Electrical properties

Maximum power dissipation for nominal condition	2.5 W
Test voltage (Winding/contact)	2 kV_{rms} (50 Hz, 1 min., winding/contact)
Test voltage (Changeover contact/changeover contact)	2 kV_{rms} (50 Hz, 1 min., changeover contact/changeover contact)
Test voltage (open contact)	1 kV_{rms} (50 Hz, 1 min., open contact)

Air clearances and creepage distances between the power circuits

Rated insulation voltage	250 V AC
Rated surge voltage	4 kV

Input data

Coil side

Nominal input voltage U_N	230 V AC
Input voltage range	184 V AC ... 253 V AC (20 °C)
Mains frequency	50/60 Hz
Drive and function	monostable
Drive (polarity)	non-polarized
Typical input current at U_N	2.5 mA (50 Hz)
Typical response time	≤ 20 ms (depending on phase relation)
Typical release time	≤ 20 ms (depending on phase relation)
Status display	LED (green)

Output data

Switching

Contact switching type	4 changeover contacts
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	17 V (10 mA)
Limiting continuous current	10 A
Min. switching current	10 mA (17 V)
Interrupting rating (ohmic load) max.	240 W (24 V DC)
	150 W (48 V DC)
	120 W (60 V DC)
	100 W (110 V DC)
	100 W (220 V DC)
	2500 VA
Switching capacity min.	17 mW

Connection data

Connection method	Plug-in connection

Dimensions

Width	41.5 mm
Height	28 mm
Depth	36.5 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection (Relay)	RT I
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Altitude	≤ 2000 m

Standards and regulations

Standards/regulations	EN 61810

Air clearances and creepage distances between the power circuits

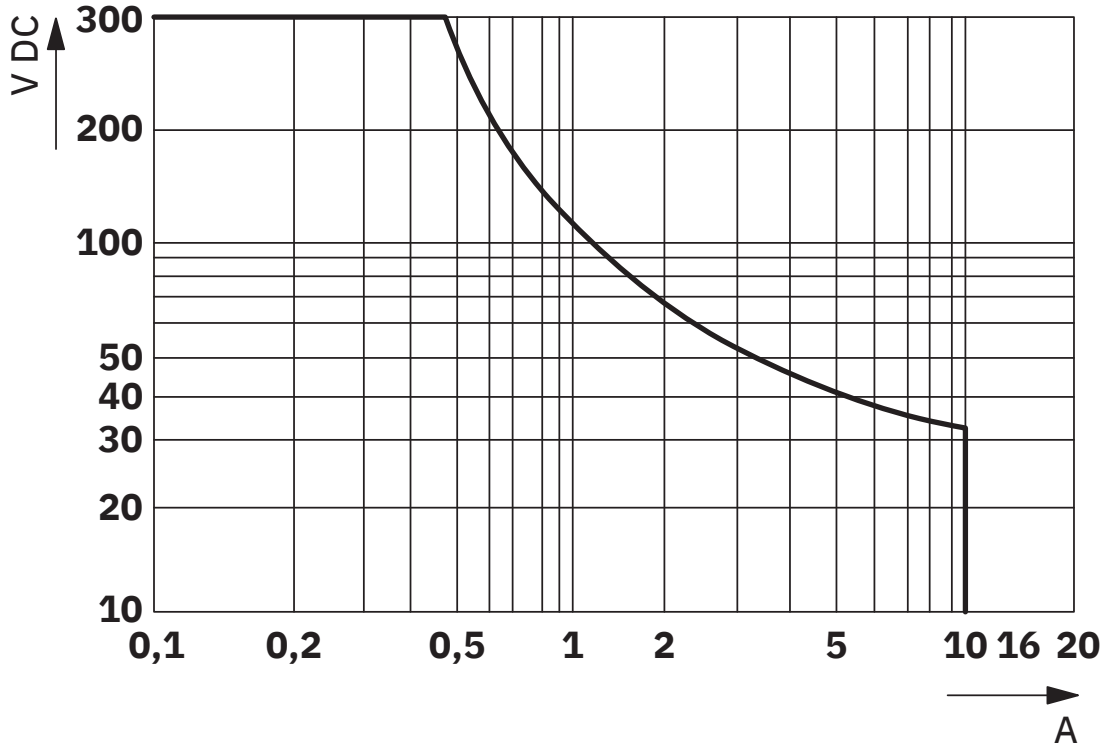
Standards/regulations	IEC 60664

Mounting

Mounting type	Plug-in mounting
Assembly note	in rows with zero spacing
Mounting position	any

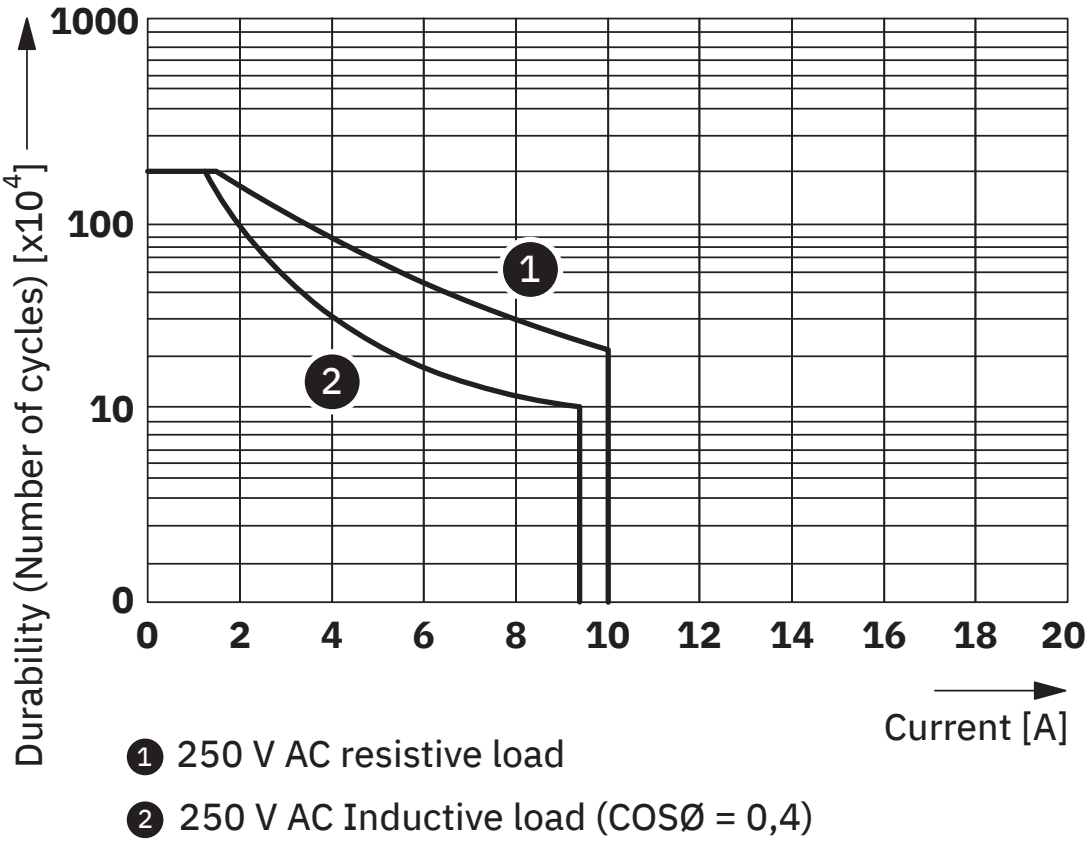
Drawings

Diagram



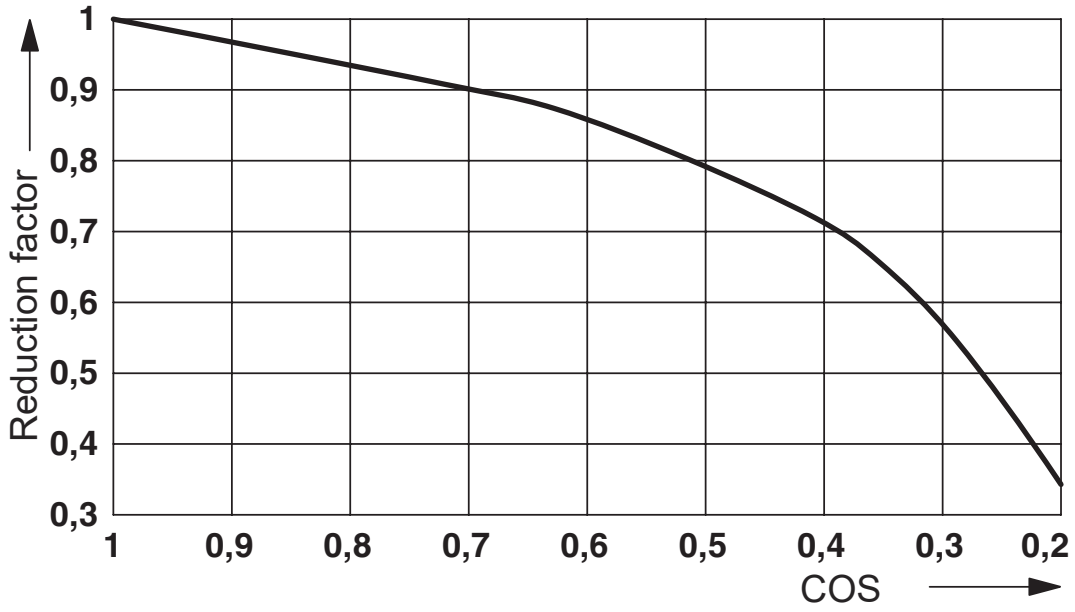
Interrupting rating

Diagram



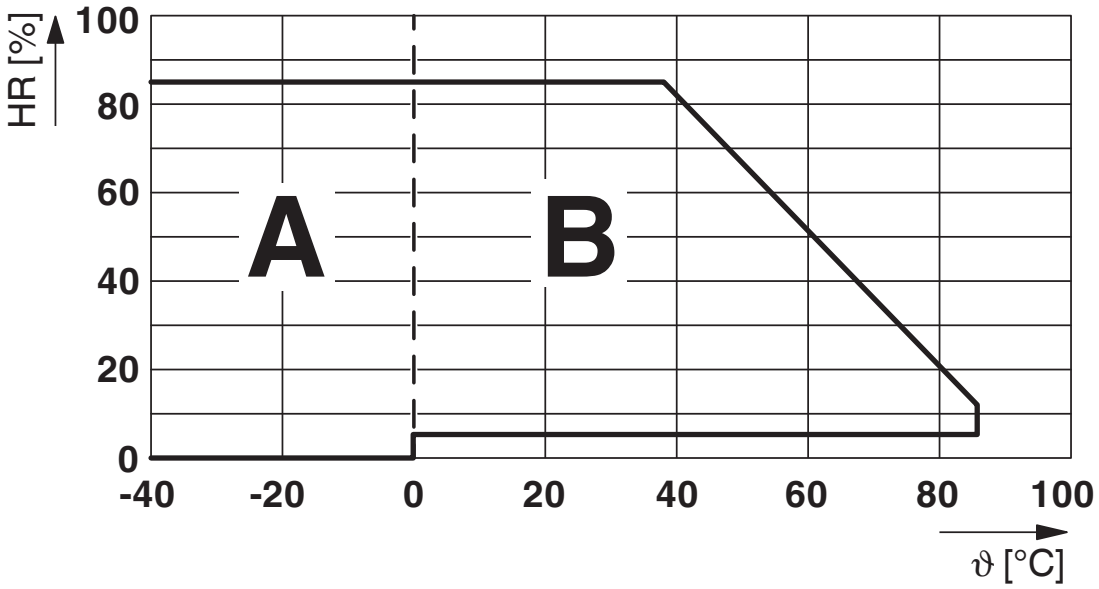
Electrical service life

Diagram



Service life reduction factor

Diagram



Permissible humidity for operation and storage.
The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures ≤ 0°C must be prevented
Area B: Condensation at ambient temperatures > 0°C must be prevented

On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature ≤ 25°C.

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1157966

cUL Recognized
Approval ID: File E 172140

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EAC
Approval ID: RU*C-DE.*08.B.00010

Classifications

ECLASS

ECLASS-13.0	27371601
ECLASS-15.0	27371601

ETIM

ETIM 9.0	EC001437

UNSPSC

UNSPSC 21.0	39122300

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%

Mandatory accessories

ECOR-4-BSC2/4X21 - Relay base

1157947

https://www.phoenixcontact.com/us/products/1157947



ECOR-4 relay base, for power relay with 4 changeover contacts, ring cable lug screw connection, for mounting on NS 35/7.5

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