

REL-PR-BL-110DC/4X21 - Single relay



1157976

<https://www.phoenixcontact.com/us/products/1157976>

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Plug-in power relay, basic version, Plug-in connection, 4 changeover contacts, status display: Green LED, Input voltage: 110 V DC

Commercial data

Item number	1157976
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	CKF96W
GTIN	4063151162894
Weight per piece (including packing)	69.12 g
Weight per piece (excluding packing)	69.12 g
Customs tariff number	85364900
Country of origin	CN

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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
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

Electrical properties

Maximum power dissipation for nominal condition	2.2 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 ()	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	110 V DC
Input voltage range	82.5 V DC ... 121 V DC (20 °C)
Drive and function	monostable
Drive (polarity)	non-polarized
Typical input current at U_N	19.8 mA
Typical response time	≤ 20 ms
Typical release time	≤ 20 ms
Status display	Green LED

Output data

Switching

Contact switching type	4 changeover contacts
Type of switch contact	Single contact
Contact material	AgSnO

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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
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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
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Air clearances and creepage distances between the power circuits

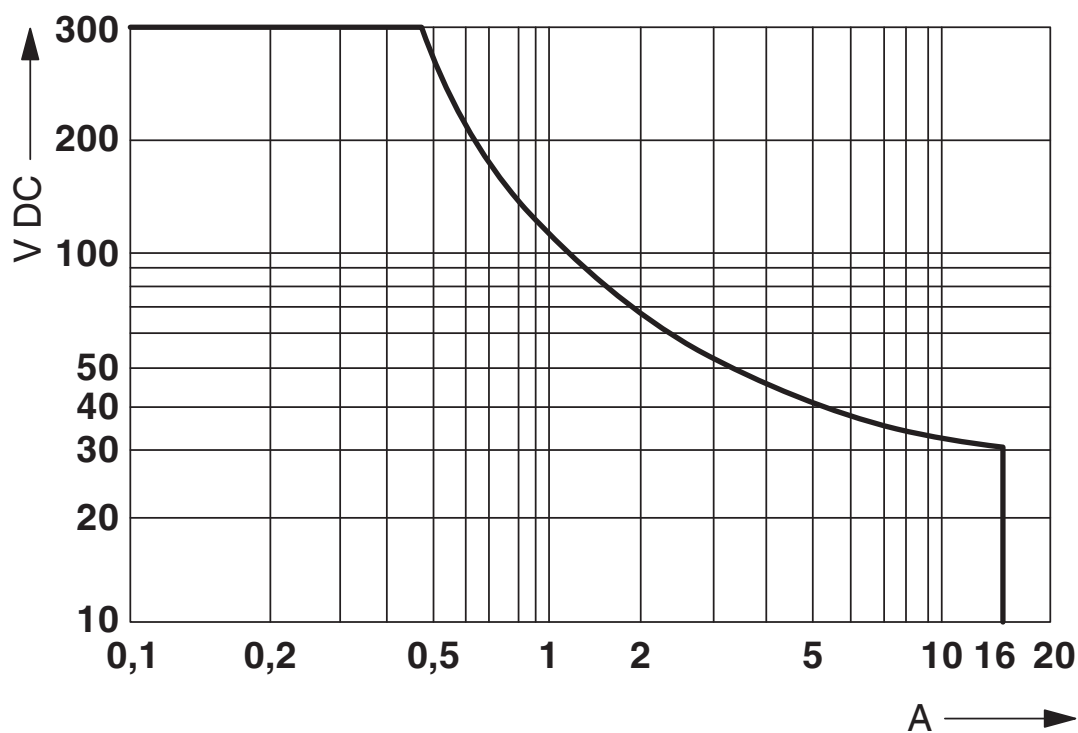
Standards/regulations	IEC 60664
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Mounting

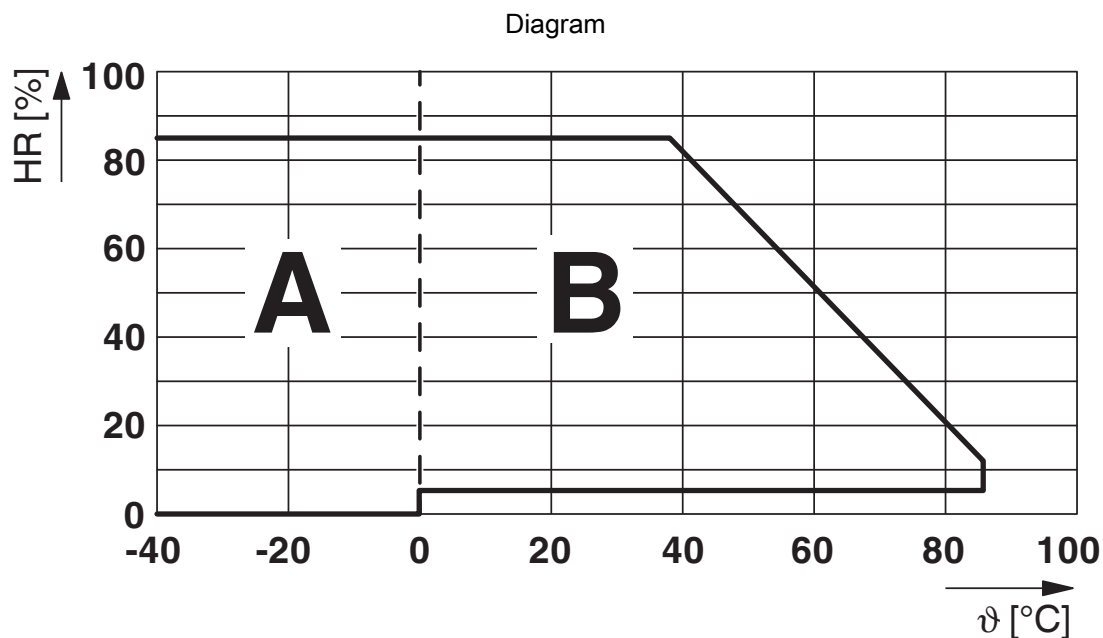
Mounting type	Plug-in mounting
Assembly note	in rows with zero spacing
Mounting position	any

Drawings

Diagram



Interrupting rating



Permissible humidity for operation and storage.

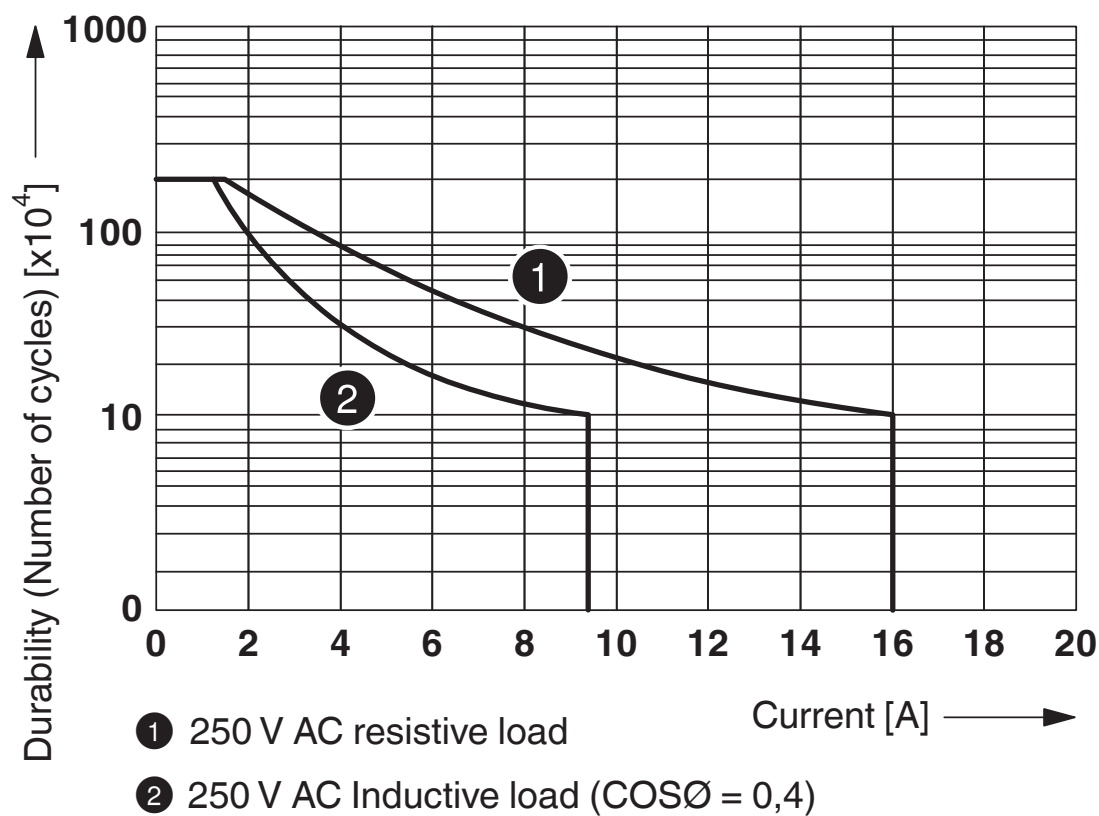
The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures $\leq 0^{\circ}\text{C}$ must be prevented

Area B: Condensation at ambient temperatures $> 0^{\circ}\text{C}$ must be prevented

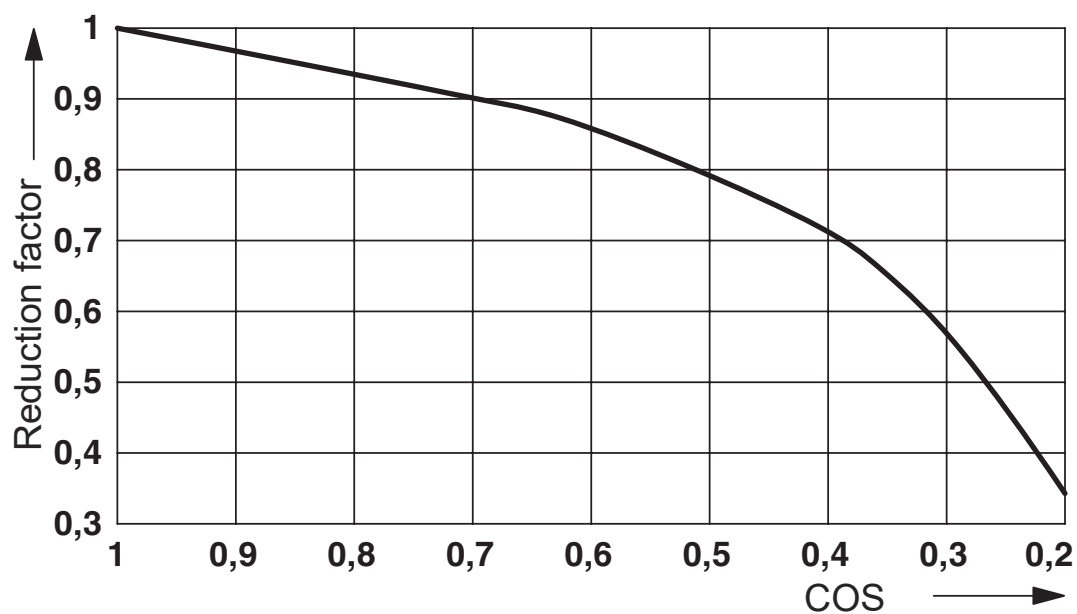
On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature $\leq 25^{\circ}\text{C}$.

Diagram



Electrical service life

Diagram



Service life reduction factor

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1157976>



cUL Recognized
Approval ID: File E 172140



UL Recognized
Approval ID: File E 172140



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

cULus Recognized

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Classifications

ECLASS

ECLASS-11.0	27371601
ECLASS-12.0	27371601
ECLASS-13.0	27371601

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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Mandatory accessories

ECOR-4-BSC2/4X21 - Relay base

1157947

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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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