

REL-IR-BL- 24DC/4X21 - Single relay



1032521

<https://www.phoenixcontact.com/gb/products/1032521>

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Plug-in industrial relay in basic design with power contacts, 4 changeover contacts, test key, mechanical switch position indicator, polarity A1+, A2-, input voltage: 24 V DC

Commercial data

Item number	1032521
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Sales key	DKF947
Product key	DKF947
GTIN	4055626536941
Weight per piece (including packing)	31.236 g
Weight per piece (excluding packing)	22.39 g
Customs tariff number	85364190
Country of origin	AT

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Technical data

Notes

Notes on operation	Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.
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	3x 10 ⁷ cycles

Insulation characteristics: Air clearances and creepage distances between coil and contact side

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Data management status

Date of last data management	05.09.2025
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Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	741 mW
Test voltage (Winding/contact)	2.5 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)

Air clearances and creepage distances between coil and contact side

Rated insulation voltage	250 V AC
Rated surge voltage	5 kV

Input data

Coil side

Nominal input voltage U _N	24 V DC
Input voltage range	19.2 V DC ... 46.8 V DC (20 °C)
Drive and function	monostable
Drive (polarity)	non-polarized
Typical input current at U _N	31 mA
Typical response time	15 ms
Typical release time	10 ms
Coil voltage	24 V DC

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Output data

Switching

Contact switching type	4 changeover contacts
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (10 mA)
Limiting continuous current	6 A
Maximum inrush current	12 A (20 ms, N/O contacts)
Min. switching current	10 mA (12 V)
Interrupting rating (ohmic load) max.	144 W (24 V DC)
	130 W (48 V DC)
	90 W (60 V DC)
	66 W (110 V DC)
	88 W (220 V DC)
	1500 VA (250 V AC)
Switching power min.	120 mW

Connection data

Connection method	Plug-in connection
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Environmental and real-life conditions

Ambient conditions

Degree of protection	RT II
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Altitude	≤ 2000 m

Standards and regulations

Air clearances and creepage distances between coil and contact side

Standards/regulations	EN 61810-1
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Mounting

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

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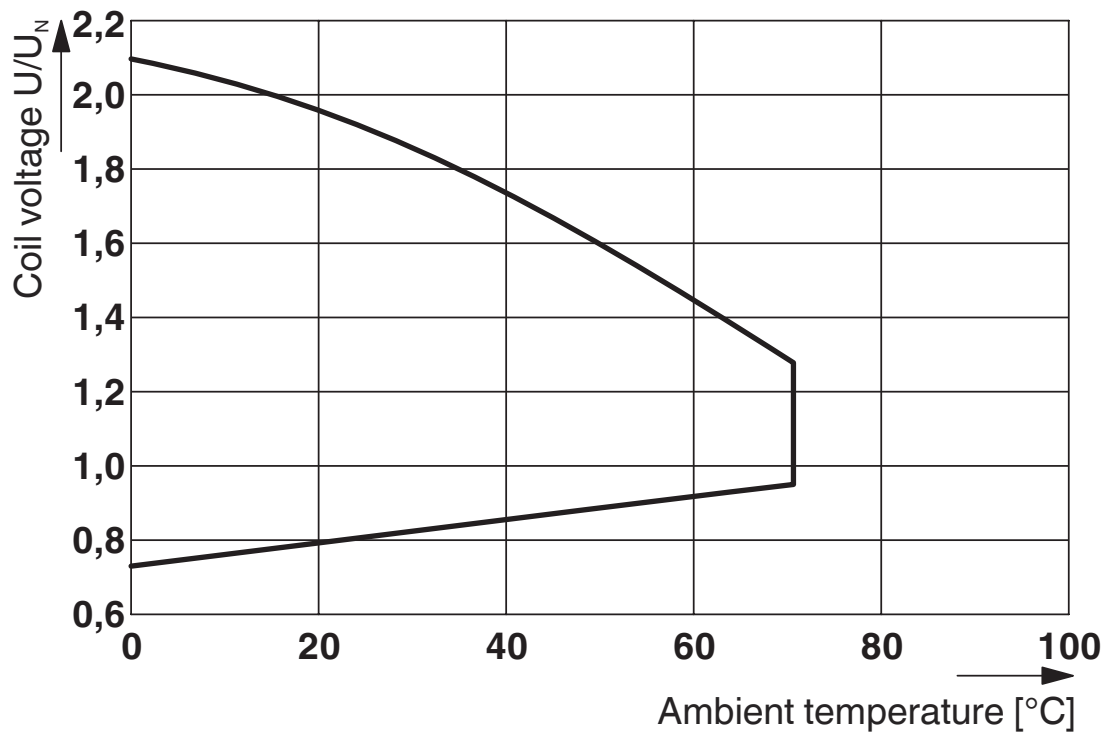


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Drawings

Diagram



Operating voltage range

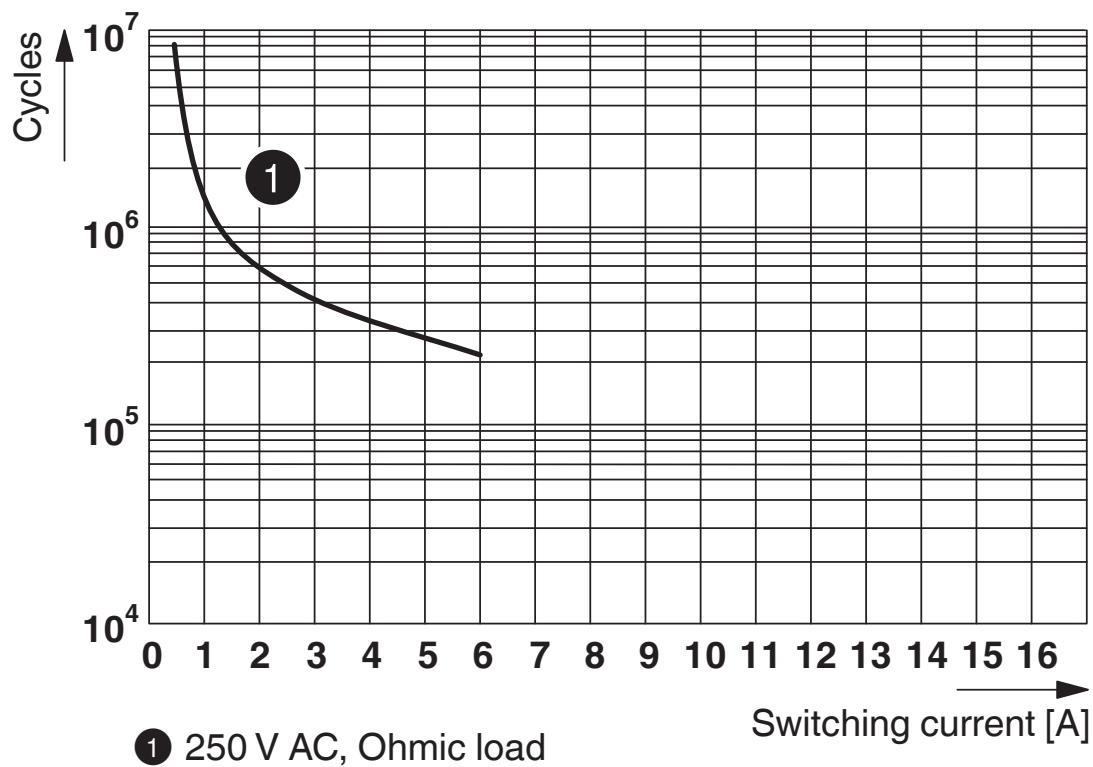
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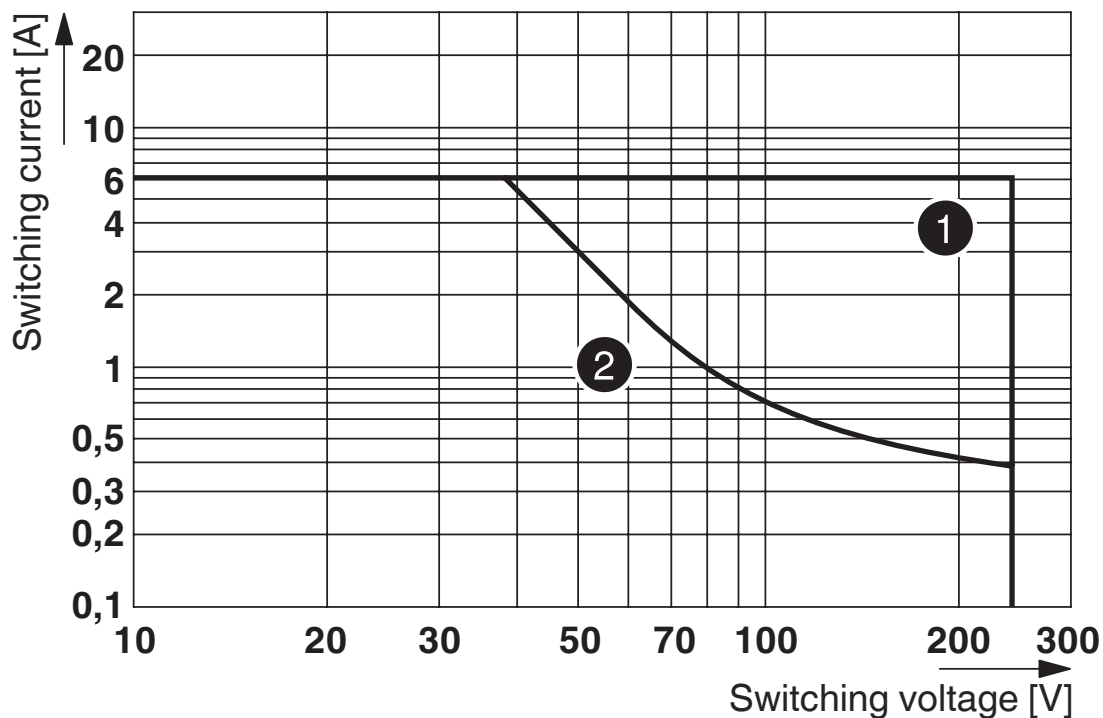
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Diagram



Electrical service life

Diagram



- ① AC, ohmic load
- ② DC, ohmic load

Interrupting rating

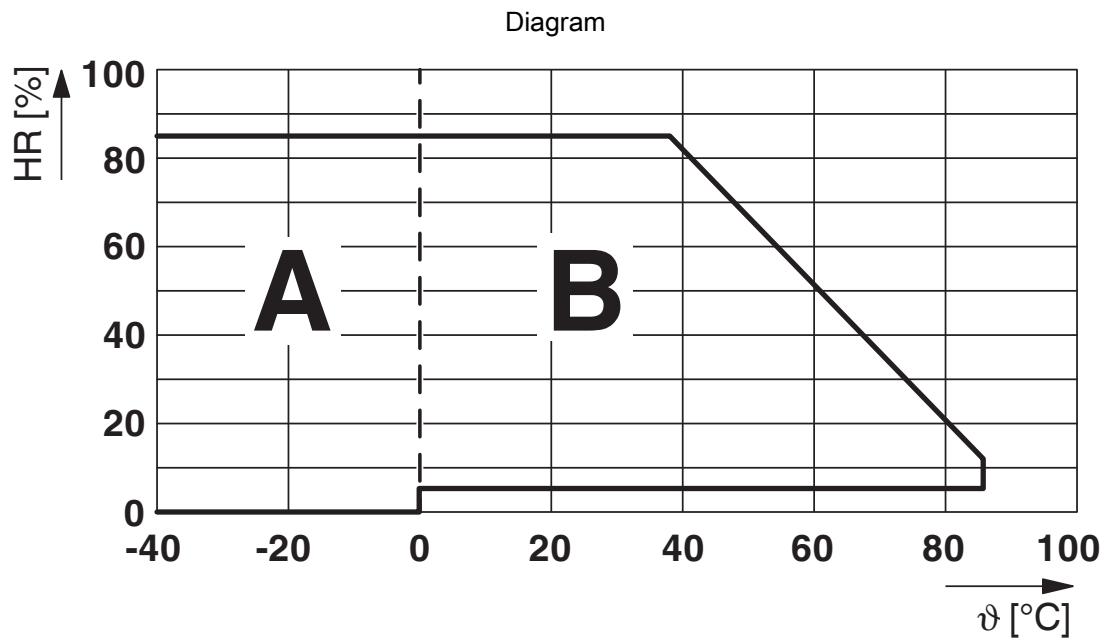
Diagram



Service life reduction factor

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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 $\leq 25^{\circ}\text{C}$.

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Approvals

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cUL Recognized
Approval ID: FILE E 228652



UL Recognized
Approval ID: FILE E 228652



VDE approval of drawings
Approval ID: 40058034

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Classifications

ECLASS

ECLASS-13.0	27371601
ECLASS-15.0	27371601

ETIM

ETIM 10.0	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
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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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EF3.1 Climate Change

CO2e kg	0.392 kg CO2e
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