

REL-IR4/24DC/4X21 - Single relay



2907054

<https://www.phoenixcontact.com/us/products/2907054>

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

Commercial data

Item number	2907054
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	DK6949
GTIN	4055626175782
Weight per piece (including packing)	35.2 g
Weight per piece (excluding packing)	34 g
Customs tariff number	85364190
Country of origin	PL

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Technical data

Product properties

Product type	Single relay
Operating mode	100% operating factor
Mechanical service life	1x 10 ⁷ cycles, approximately

Insulation characteristics

Insulation	Basic insulation
Overvoltage category	II
Pollution degree	2

Data management status

Date of last data management	11.02.2026
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Electrical properties

Maximum power dissipation for nominal condition	0.91 W
Test voltage (Winding/contact)	2.5 kV _{rms} (50 Hz, 1 min., winding/contact)
Test voltage (Changeover contact/changeover contact)	2.5 kV _{rms} (50 Hz, 1 min., changeover contact/changeover contact)
Rated insulation voltage	250 V AC
Rated surge voltage	2.5 kV

Input data

Coil side

Nominal input voltage U _N	24 V DC
Input voltage range	18.7 V DC ... 46.8 V DC (20 °C)
Drive and function	monostable
Drive (polarity)	non-polarized
Typical input current at U _N	38 mA
Typical response time	13 ms
Typical release time	3 ms

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	5 V (At 24 mA)
Limiting continuous current	6 A
Maximum inrush current	16 A (20 ms, N/O contacts) 12 A (4 s, N/O contacts)
Min. switching current	5 mA (at 24 V)

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Interrupting rating (ohmic load) max.	144 W (at 24 V DC)
	124 W (at 48 V DC)
	108 W (at 60 V DC)
	52 W (at 110 V DC)
	48 W (at 220 V DC)
	1500 VA (for 250 V AC)
Switching power min.	0.12 W
Switching capacity	2 A (at 24 V, DC13)
	1 A (at 230 V, AC15)

Connection data

Connection method	Plug-in connection
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Dimensions

Width	21.2 mm
Height	27.5 mm
Depth	35.6 mm

Environmental and real-life conditions

Ambient conditions

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

Approvals

Corrosive gas test

Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Standards and regulations

Standards/regulations	IEC 60664
	IEC 61810

Mounting

Mounting position	any
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Drawings

Diagram



- ① DC coils
- ② AC coils

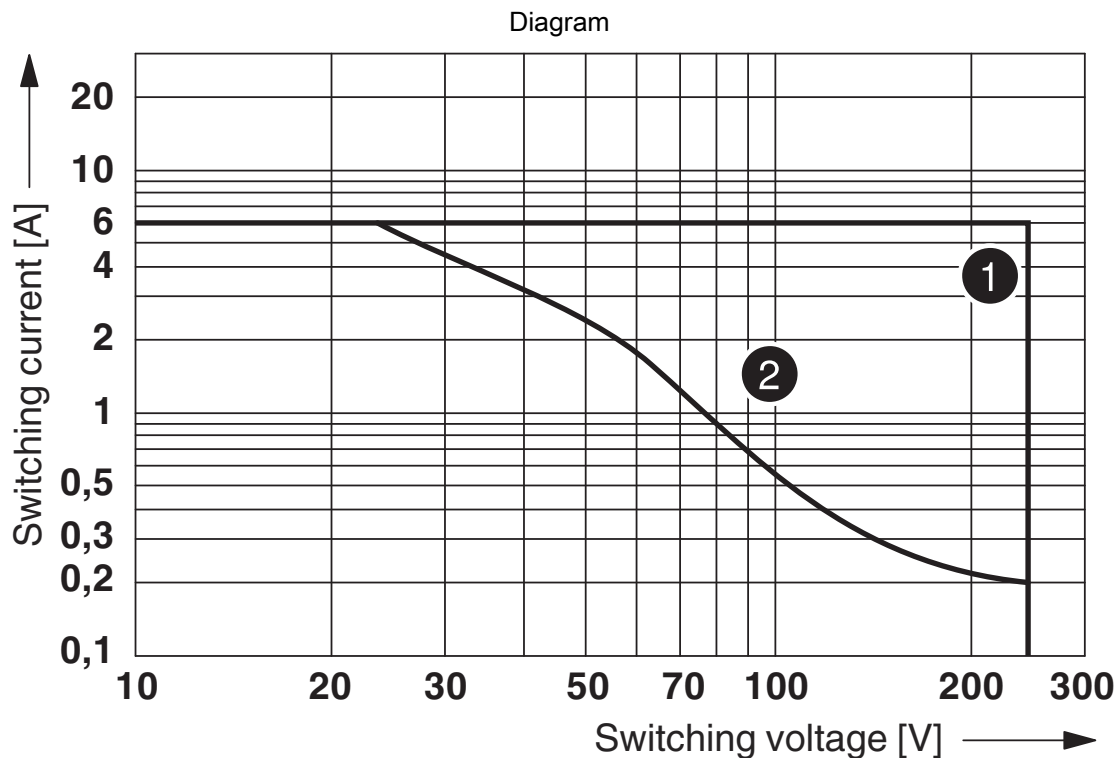
Operating voltage range

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① AC, ohmic load

② DC, ohmic load

Interrupting rating

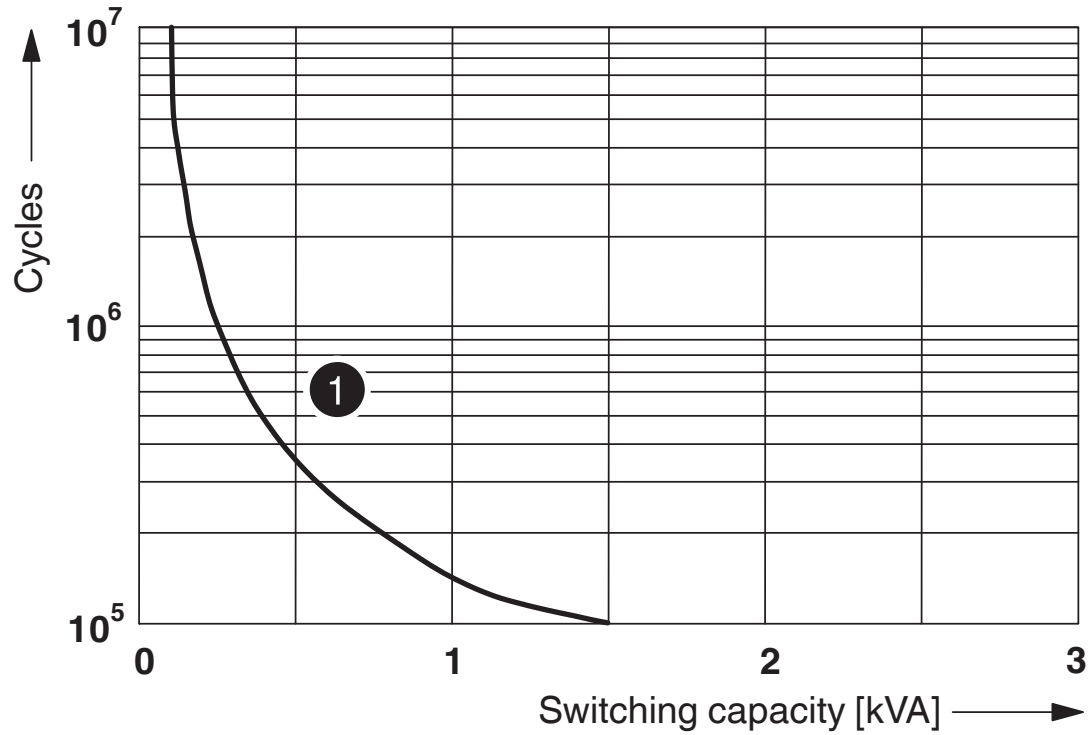
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Diagram



① 250 V AC, Ohmic load

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 $\leq 0^\circ\text{C}$ 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 $\leq 25^\circ\text{C}$.

Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2907054>



CSA

Approval ID: 256725



EAC

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



cULus Recognized

Approval ID: E172140

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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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