

# REL-IR2/24DC/2X21 - Single relay



2907051

<https://www.phoenixcontact.com/us/products/2907051>

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Plug-in industrial relay with power contacts, 2 changeover contacts, test key, mechanical switch position indicator, polarity: bipolar, input voltage: 24 V DC

## Commercial data

Item number	2907051
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C460
Product key	DK6943
GTIN	4055626175799
Weight per piece (including packing)	36.75 g
Weight per piece (excluding packing)	34 g
Customs tariff number	85364900
Country of origin	PL

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## Technical data

### Product properties

Product type	Single relay
Operating mode	100% operating factor
Mechanical service life	approx. $2 \times 10^7$ cycles

### Insulation characteristics

Insulation	Basic insulation
Overvoltage category	II
Pollution degree	3 (Rated voltage of 230 V) 2 (Rated voltage of 400 V)

### 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 <sub>rms</sub> (50 Hz, 1 min., winding/contact)
Test voltage (Changeover contact/changeover contact)	2.5 kV <sub>rms</sub> (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
Input voltage range in reference to $U_N$	see diagram
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	2 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	12 A
Maximum inrush current	30 A (20 ms, N/O contacts)

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	24 A (4 s, N/O contacts)
Min. switching current	5 mA (at 24 V)
Interrupting rating (ohmic load) max.	288 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)
	3000 VA (for 250 V AC)
Switching power min.	0.12 W
Switching capacity	2 A (at 24 V, DC13)
	1.5 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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Diagram



Interrupting rating

Curve 1: AC, ohmic load

Curve 2: DC, ohmic load

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Diagram



① 250 V AC, Ohmic load

Electrical service life

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Diagram



Service life reduction factor

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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/2907051>



**CSA**

Approval ID: 256725



**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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