

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



2903677

<https://www.phoenixcontact.com/gb/products/2903677>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Plug-in industrial relay with power contacts, 4 changeover contacts, test button, status LED, freewheeling diode, mechanical switching position indicator, polarity: A1+, A2-, input voltage: 24 V DC

Commercial data

Item number	2903677
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	CK6193
Product key	CK6193
Catalog page	Page 300 (C-5-2019)
GTIN	4046356758901
Weight per piece (including packing)	36.1 g
Weight per piece (excluding packing)	34.4 g
Customs tariff number	85364190
Country of origin	PL

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



2903677

<https://www.phoenixcontact.com/gb/products/2903677>

Technical data

Product properties

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

Insulation characteristics

Insulation	Basic insulation
------------	------------------

Insulation characteristics

Insulation	Basic insulation
Overvoltage category	II
Pollution degree	2

Electrical properties

Service life electrical	see diagram
Maximum power dissipation for nominal condition	1.01 W
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)
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)	polarized
Typical input current at U_N	42 mA
Typical response time	13 ms
Typical release time	14 ms
Protective circuit	Freewheeling diode
Status display	Yellow LED

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

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



2903677

<https://www.phoenixcontact.com/gb/products/2903677>

Maximum inrush current	16 A (20 ms, N/O contacts)
Min. switching current	5 mA (at 24 V)
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 capacity min.	0.12 W
Switching capacity	2 A (at 24 V, DC13)
	0.22 A (at 120 V, DC13)
	0.11 A (at 250 V, DC13)
	1.5 A (at 24 V, AC15)
	1.5 A (at 120 V, AC15)
	1 A (at 240 V, AC15)
Motor load according to UL 508	1/3 HP, 240 V AC

Connection data

Connection method	Plug-in connection
-------------------	--------------------

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

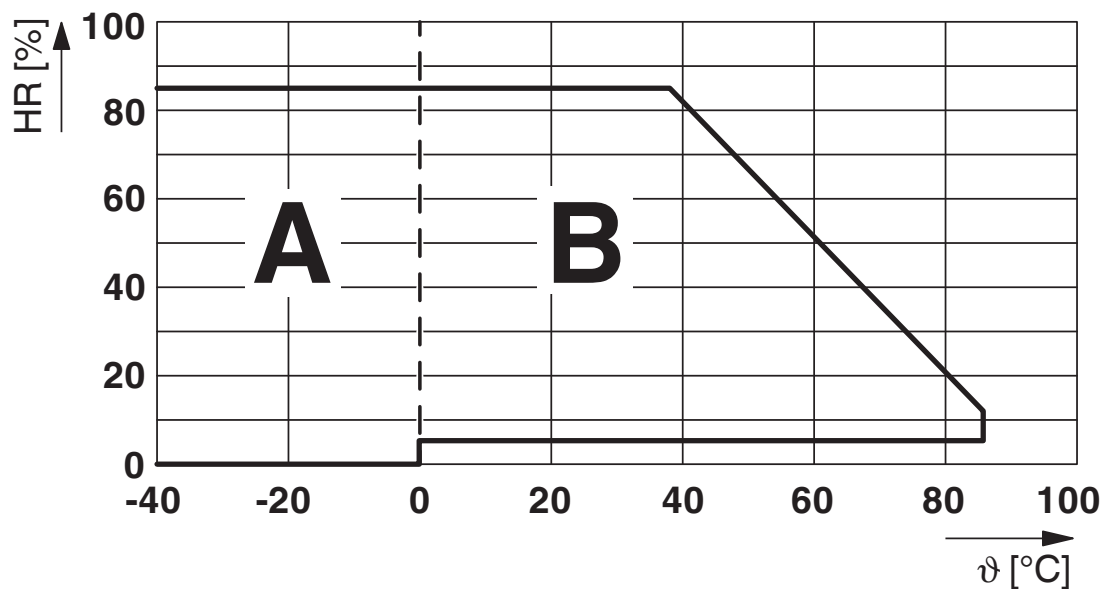
Standards/regulations	IEC 60664
	IEC 61810

Mounting

Mounting position	any
-------------------	-----

Drawings

Diagram



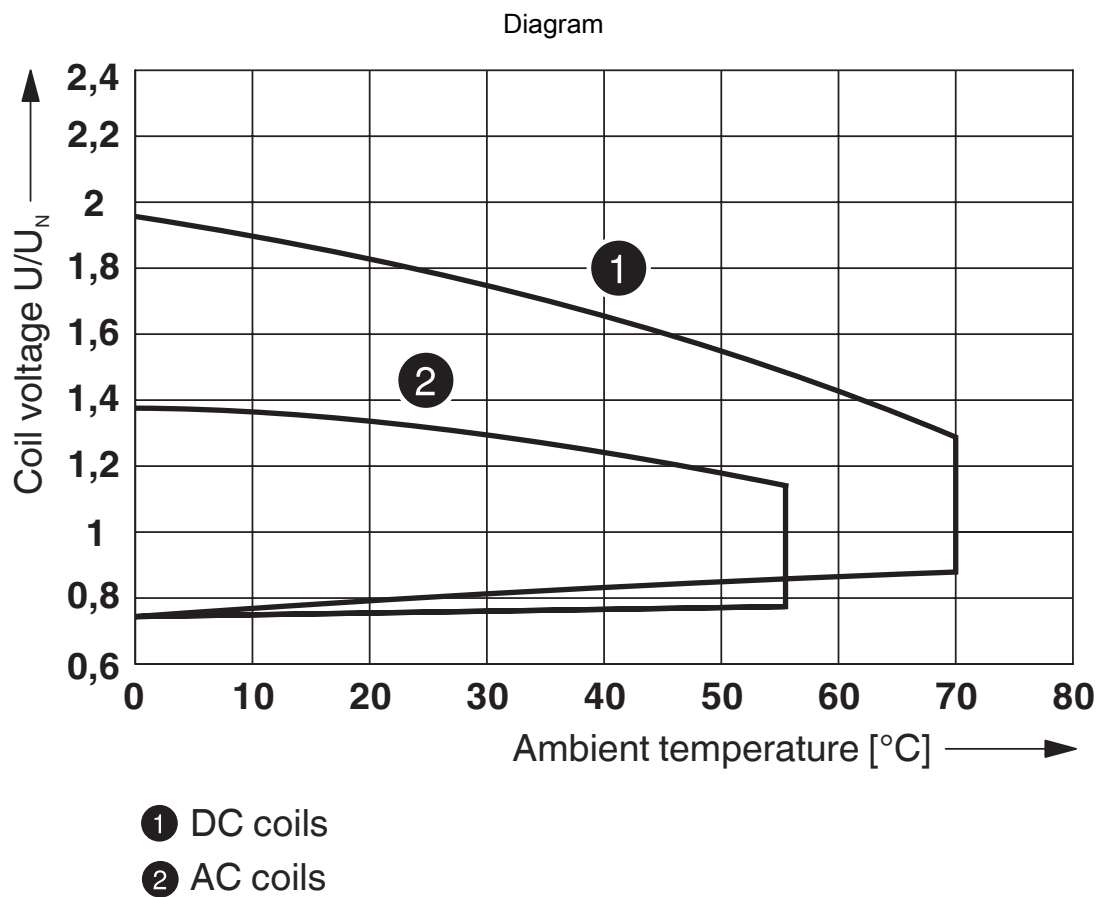
Permissible humidity for operation and storage.

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



Operating voltage range

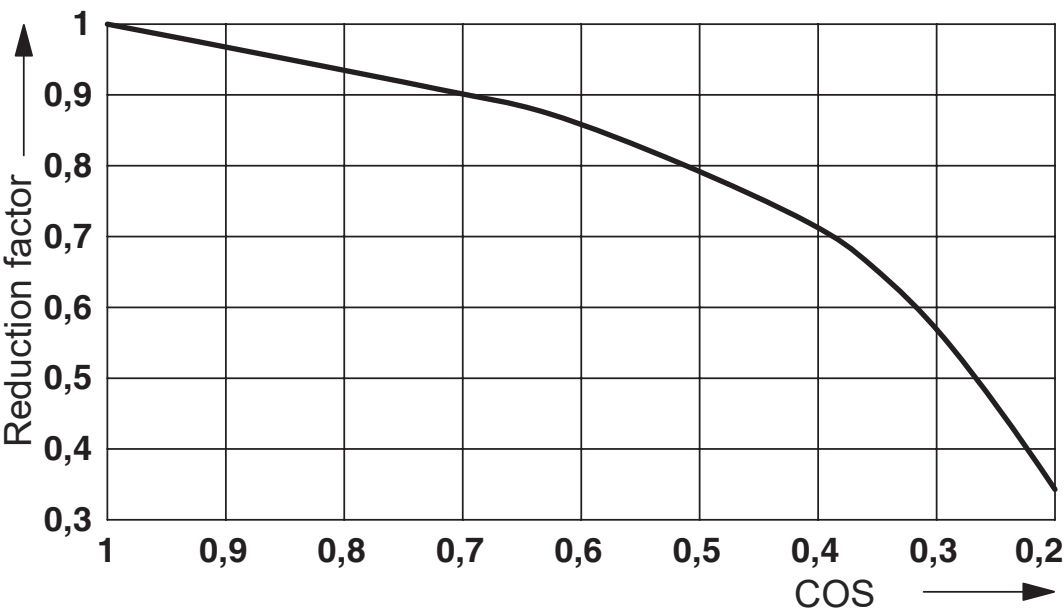
Diagram



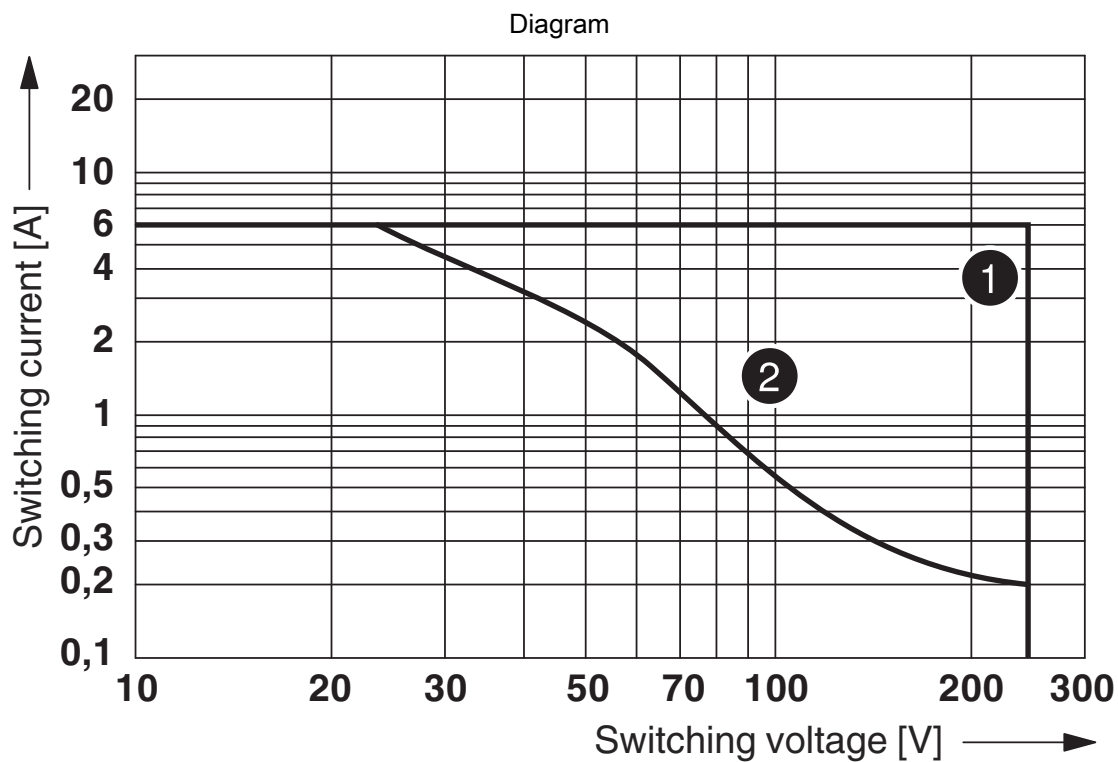
① 250 V AC, Ohmic load

Electrical service life

Diagram



Service life reduction factor

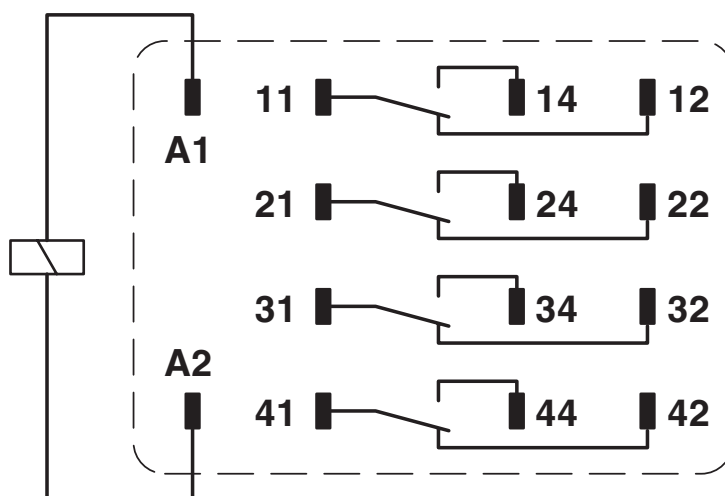


① AC, ohmic load

② DC, ohmic load

Interrupting rating

Circuit diagram



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



2903677

<https://www.phoenixcontact.com/gb/products/2903677>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/2903677>



CSA
Approval ID: 256725



cUL Recognized
Approval ID: FILE E 172140



UL Recognized
Approval ID: FILE E 172140



EAC
Approval ID: TR_TS_D_00573_c



VDE Zeichengenehmigung
Approval ID: 40040427

cULus Recognized

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



2903677

<https://www.phoenixcontact.com/gb/products/2903677>

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC001437
----------	----------

UNSPSC

UNSPSC 21.0	39122300
-------------	----------

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



2903677

<https://www.phoenixcontact.com/gb/products/2903677>

Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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



2903677

<https://www.phoenixcontact.com/gb/products/2903677>

Mandatory accessories

RIF-2-BPT/4X21 - Relay base

2900934

<https://www.phoenixcontact.com/gb/products/2900934>

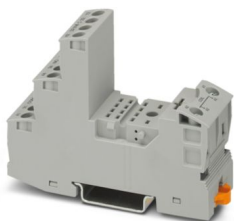


Relay base RIF-2..., for industrial relay with 2 or 4 changeover contacts, Push-in connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

RIF-2-BSC/4X21 - Relay base

2900932

<https://www.phoenixcontact.com/gb/products/2900932>



RIF-2... relay base, for industrial relay with 2 or 4 changeover contacts, screw connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

Phoenix Contact 2024 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT Ltd

Halesfield 13, Telford

Shropshire, TF7 4PG

01952 681700

info@phoenixcontact.co.uk