

# Single relay - REL-IR-BL/L- 24DC/4X21 - 1032527


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Plug-in industrial relay with power contacts, 4 changeover contacts, test button, status LED, mechanical switch position indicator, input voltage: 24 V DC



## Key Commercial Data

Packing unit	10 pc
Minimum order quantity	10 pc
GTIN	 4 055626 537115
GTIN	4055626537115
Weight per Piece (excluding packing)	30.000 g
Custom tariff number	85364900
Country of origin	Austria

## Technical data

### Note

Type of note	Notes on operation
Note	Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.
Type of note	Notes on operation
Note	The outputs are not suitable for switching different outer conductors.
Type of note	Notes on operation
Note	Do not use to separate SELV / PELV circuits from other circuits, because safe isolation is not guaranteed.

### Dimensions

Width	22.5 mm
Height	28 mm
Depth	35.5 mm

### Ambient conditions

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### Ambient conditions

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

### Coil side

Nominal input voltage $U_N$	24 V DC
Typical input current at $U_N$	32 mA
Typical response time	15 ms
Typical release time	10 ms
Coil voltage	24 V DC
Status display	Yellow LED (bidirectional)
Power dissipation for nominal condition	759 mW

### Contact side

Contact 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)
Min. switching current	10 mA (12 V)
Maximum inrush current	12 A (20 ms, N/O contacts)
Limiting continuous current	6 A
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 capacity min.	120 mW

### General

Test voltage	2.5 kV <sub>rms</sub> (50 Hz, 1 min., winding/contact)
	2 kV <sub>rms</sub> (50 Hz, 1 min., changeover contact/changeover contact)
Operating mode	100% operating factor
Mechanical service life	3x 10 <sup>7</sup> cycles
Service life, electrical	see diagram
Mounting position	any
Assembly instructions	in rows with zero spacing

### Standards and Regulations

Designation	Air clearances and creepage distances between coil and contact side
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### Standards and Regulations

Standards/regulations	EN 61810-1
Rated insulation voltage	250 V AC
Rated surge voltage	5 kV
Insulation	Basic insulation
Pollution degree	2
Overvoltage category	III

### Conformance/approvals

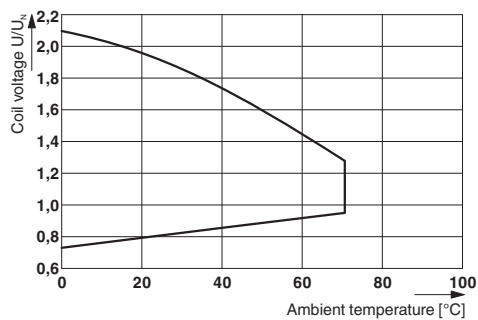
Designation	Corrosive gas test
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

### Environmental Product Compliance

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

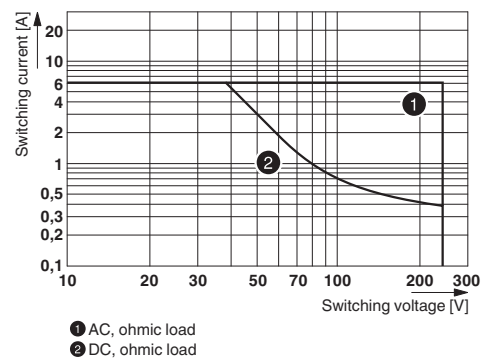
## Drawings

Diagram



Operating voltage range

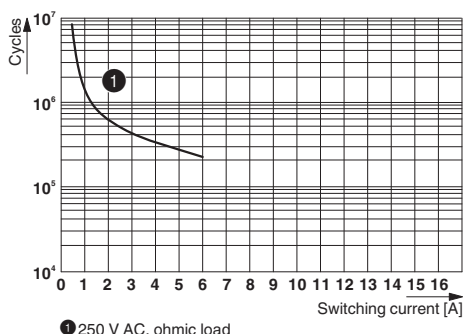
Diagram



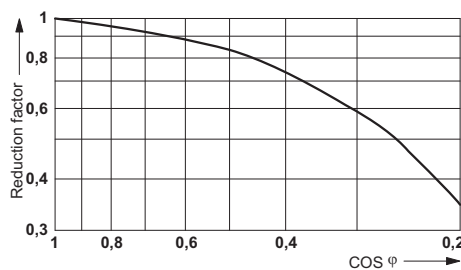
Interrupting rating

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Diagram



Diagram



Electrical service life

Service life reduction factor

## Classifications

eCl@ss

eCl@ss 10.0.1	27371601
eCl@ss 11.0	27371601
eCl@ss 5.0	27371600
eCl@ss 5.1	27371600
eCl@ss 6.0	27371600
eCl@ss 7.0	27371601
eCl@ss 9.0	27371601

ETIM

ETIM 6.0	EC001437
ETIM 7.0	EC001437

## Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized


Ex Approvals


## Approval details


UL Recognized		<a href="http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm</a>	FILE E 228652
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EAC		TR_TS_D_00573_c
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cULus Recognized	
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