

# Single relay - REL-IR2/LDP-110DC/2X21 - 2903663

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Plug-in industrial relay with power contacts, 2 PDTs, test key, status LED, freewheeling diode, mechanical switch position indicator, polarity: A1+, A2-, input voltage: 110 V DC

The figure shows version REL-IR2/LDP- 24DC/2X21

## Key Commercial Data

Packing unit	10 STK
Minimum order quantity	10 STK
GTIN	 4 046356 758161
Weight per Piece (excluding packing)	34.11 g
Weight per piece (including packing)	35.25 g
Country of origin	Poland

## Technical data

### Dimensions

Width	21.2 mm
Height	35.6 mm
Depth	27.5 mm

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

### Coil side

Nominal input voltage $U_N$	110 V DC
Input voltage range in reference to $U_N$	see diagram
Typical input current at $U_N$	8 mA
Typical response time	13 ms
Typical release time	14 ms
Protective circuit	Damping diode
Status display	Yellow LED
Power dissipation for nominal condition	0.88 W

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## Technical data

### Contact side

Contact type	2 PDT
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (At 24 mA)
Min. switching current	5 mA (at 24 V)
Maximum inrush current	30 A (20 ms, N/O contact)
Limiting continuous current	12 A
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 capacity min.	0.12 W
Switching capacity in acc. with DIN VDE 0660/IEC 60947	2 A (at 24 V, DC13)
	0.22 A (at 120 V, DC13)
	0.11 A (at 250 V, DC13)
	3 A (at 120 V, AC15)
	1.5 A (at 240 V, AC15)

### General

Test voltage relay winding/relay contact	2.5 kV <sub>rms</sub> (50 Hz, 1 min.)
Test voltage relay contact/relay contact	2.5 kV <sub>rms</sub> (50 Hz, 1 min.)
Test voltage PDT/PDT	2.5 kV <sub>rms</sub> (50 Hz, 1 min.)
Operating mode	100% operating factor
Degree of protection	RT I
Mechanical service life	Approx. $2 \times 10^7$ cycles
Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	IEC 61810
Rated insulation voltage	250 V AC
Degree of pollution	3
Overvoltage category	III
Designation	Standards/regulations
Standards/regulations	IEC 61810
Mounting position	any

### Standards and Regulations

Connection in acc. with standard	CSA
Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	IEC 61810
Rated insulation voltage	250 V AC

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## Technical data

### Standards and Regulations

Insulation	Basic insulation
Degree of pollution	3
Overvoltage category	III
Designation	Standards/regulations
Standards/regulations	IEC 61810

## Classifications

### eCl@ss

eCl@ss 4.0	27371104
eCl@ss 4.1	27371104
eCl@ss 5.0	27371001
eCl@ss 5.1	27371001
eCl@ss 6.0	27371001
eCl@ss 7.0	27371001
eCl@ss 8.0	27371601
eCl@ss 9.0	27371601

### ETIM

ETIM 3.0	EC000196
ETIM 4.0	EC000196
ETIM 5.0	EC001437

### UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121515
UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39121515

## Approvals

### Approvals

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#### Approvals

CSA / UL Recognized / cUL Recognized / VDE Zeichengenehmigung / EAC / cULus Recognized

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#### Ex Approvals

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## Approvals

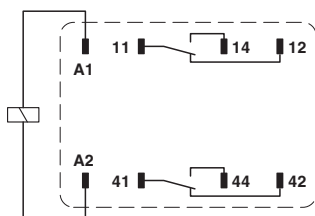
Approvals submitted

### Approval details

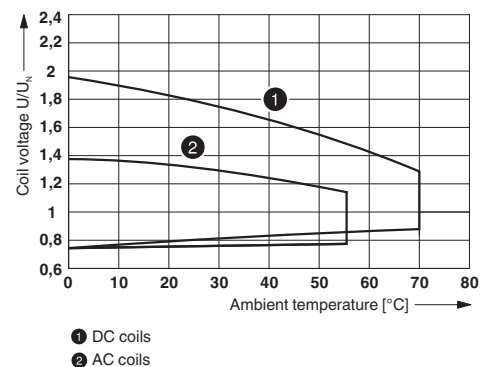
CSA
UL Recognized
cUL Recognized
VDE Zeichengenehmigung
EAC
cULus Recognized

## Drawings

Circuit diagram



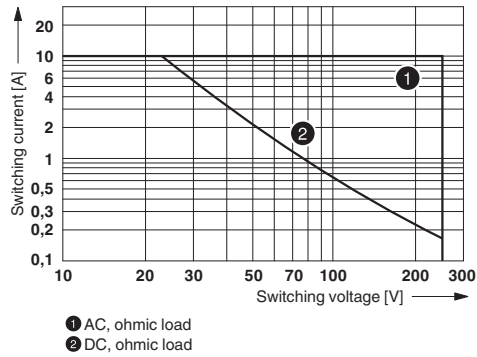
Diagram



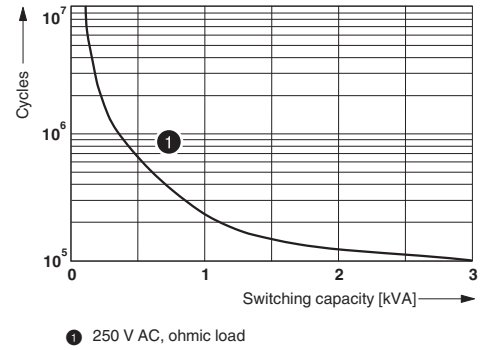
Operating voltage range

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Diagram



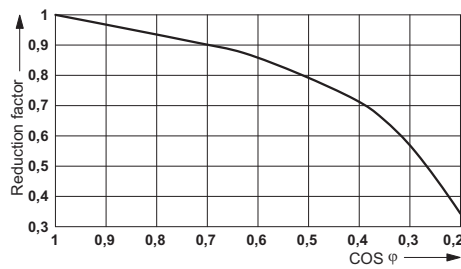
Diagram



Interrupting rating

Electrical service life

Diagram



Service life reduction factor

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