

# Single relay - REL-IR/LDP-220DC/2X21 - 2834957

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Pluggable industrial relay with power contacts, 2 PDT, test button, status LED, free-wheeling diode, mechanical switch position indicator, polarity A1+, A2-, input voltage 220 V DC

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

## Why buy this product

- With detectable manual operation
- DC types with integrated freewheeling diode
- Integrated status LED
- Mechanical switch position indicator



## Key Commercial Data

Packing unit	10 pc
GTIN	
GTIN	4046356482073

## Technical data

### Dimensions

Width	21.5 mm
Height	28 mm
Depth	36 mm

### Ambient conditions

Ambient temperature (operation)	-55 °C ... 70 °C
Ambient temperature (storage/transport)	-55 °C ... 70 °C

### Coil side

Nominal input voltage $U_N$	220 V DC
Typical input current at $U_N$	3.6 mA
Typical response time	13 ms

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## Technical data

### Coil side

Typical release time	14 ms
Coil resistance	60394 Ω ±15 % (at 20 °C)
Power dissipation for nominal condition	0.79 W

### Contact side

Contact type	2 PDT
Type of switch contact	Single contact
Contact material	Ag
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V
Min. switching current	1 mA
Maximum inrush current	20 A (15 ms)
Limiting continuous current	10 A
Interrupting rating (ohmic load) max.	2500 VA (for 250 V AC)

### General

Test voltage relay winding/relay contact	2 kV AC (50 Hz, 1 min.)
Test voltage relay contact/relay contact	2 kV AC (50 Hz, 1 min.)
Operating mode	100% operating factor
Degree of protection	RT I
Mechanical service life	5x 10 <sup>7</sup> cycles
Mounting position	any
Assembly instructions	On relay base PR2

### Standards and Regulations

Standards/regulations	DIN EN 61810-1
	VDE 0435-201
	EN 50178
Degree of pollution	2
Overvoltage category	II

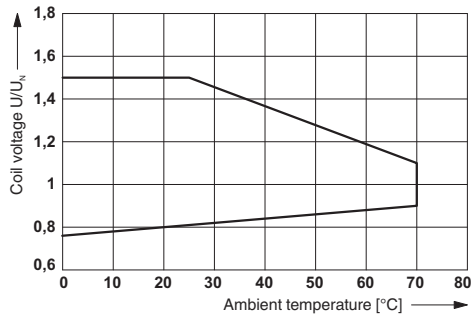
### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

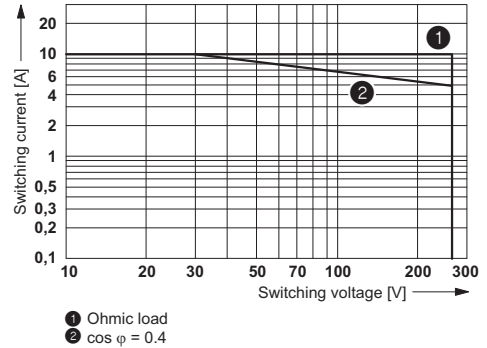
### Drawings

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Diagram



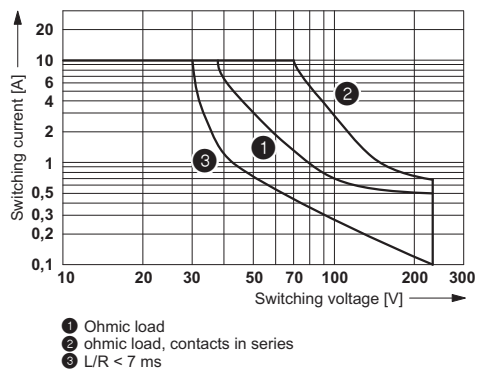
Diagram



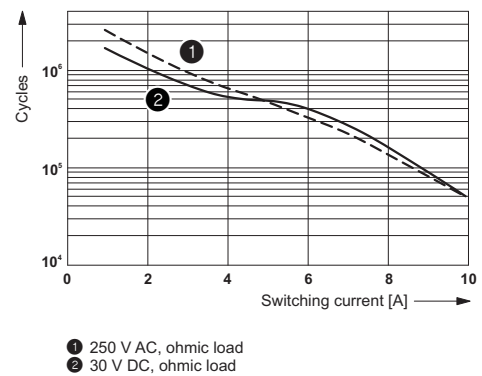
Operating voltage range

AC interrupting rating

Diagram



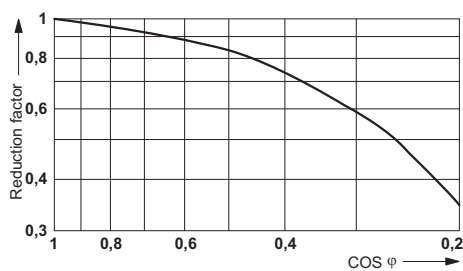
Diagram



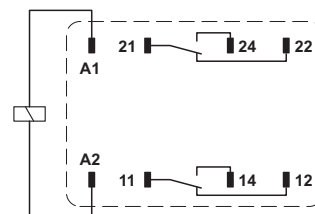
DC interrupting rating

Electrical service life

Diagram



Circuit diagram



Shown without LED and damping diode.  
Contacts 21, 22, 24 are led onto relay base connections 41, 42, 44.

Service life reduction factor

## Approvals

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## Approvals

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### Approvals

UL Listed / VDE Gutachten mit Fertigungsüberwachung / cUL Listed / EAC / cULus Listed

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### Ex Approvals

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### Approval details

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 172140
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VDE Gutachten mit Fertigungsüberwachung		<a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a>	40026798
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cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 172140
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EAC			RU C-DE.A*30.B.01082
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cULus Listed			
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