

# Single relay - REL-IR/LDP- 48DC/2X21 - 2834038

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Pluggable industrial relays with power contacts, 2 PDT, test button, status LED, free-wheeling diode, mechanical switch position indicator, polarity A1+, A2-, input voltage 48 V DC



## Key Commercial Data

Packing unit	10 STK
GTIN	
GTIN	4017918941635

## 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 $U_N$	48 V DC
Typical input current at $U_N$	19 mA
Typical response time	13 ms
Typical release time	5 ms
Coil resistance	2560 $\Omega$ $\pm$ 15 % (at 20 °C)
Power dissipation for nominal condition	0.91 W

### Contact side

Contact type	2 PDT
Type of switch contact	Single contact

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## Technical data

### Contact side

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
Mechanical service life	5x 10 <sup>7</sup> cycles
Mounting position	any
Assembly instructions	On relay base PR2

### Standards and Regulations

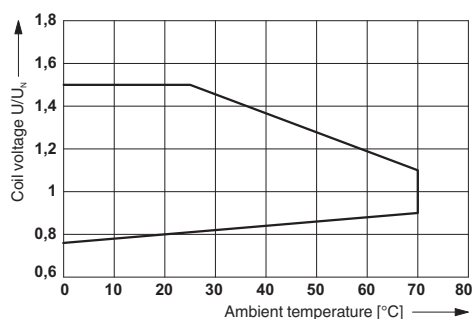
Standards/regulations	DIN EN 61810-1
	VDE 0435-201
	EN 50178
Degree of pollution	2
Overvoltage category	II

### Environmental Product Compliance

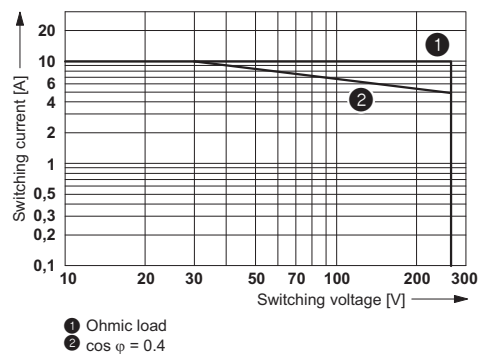
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

## Drawings

Diagram



Diagram

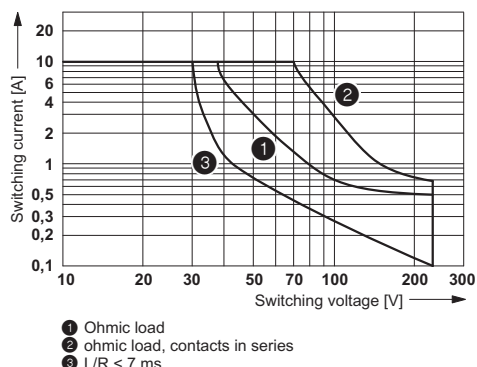


Operating voltage range

AC interrupting rating

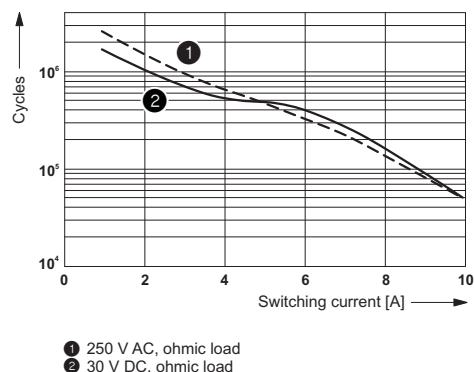
# Single relay - REL-IR/LDP- 48DC/2X21 - 2834038

Diagram



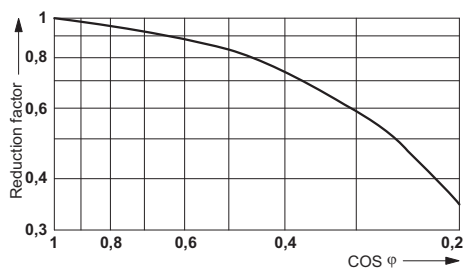
DC interrupting rating

Diagram



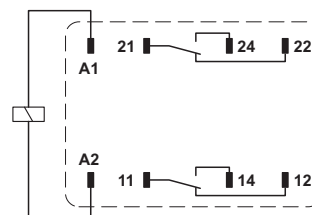
Electrical service life

Diagram



Service life reduction factor

Circuit diagram



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

## Approvals

### Approvals

#### Approvals

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

#### Ex Approvals

### Approval details

UL Listed







<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 172140

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### Approvals

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
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
EAC			RU C- DE.A*30.B.01082
cULus Listed			

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