

## Single relay - REL-IR/L-230AC/2X21 - 2834070

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Plug-in industrial relay with power contacts, 2 PDTs, test button, status LED, mechanical switch setting display, input voltage: 230 V AC

### Product Features

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



### Key Commercial Data

Packing unit	1 pc
Minimum order quantity	10 pc
Weight per Piece (excluding packing)	37.07 g
Custom tariff number	85364900
Country of origin	Japan

### 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 $U_N$	230 V AC
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## Technical data

### Coil side

Typical input current at $U_N$	5 mA (at 50 Hz)
	4 mA (At 60 Hz)
Typical response time	4 ms ... 10 ms (AC, depending on phase relation)
Typical release time range	3 ms ... 12 ms (AC, depending on phase relation)
Coil resistance	18790 $\Omega$ $\pm$ 15 % (at 20 °C)

### Contact side

Contact type	2 PDT
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)

### Connection data input side

Connection name	Coil side
Connection method	Plug / solder connection

### Connection data output side

Connection name	Contact side
Connection method	Plug / solder connection

### 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	5 x 10 <sup>7</sup> cycles
Standards/regulations	DIN EN 61810-1
	VDE 0435-201
	EN 50178
	IEC 62103
Degree of pollution	3
Overvoltage category	II
Mounting position	any
Assembly instructions	On relay base PR2

### Standards and Regulations

Standards/regulations	DIN EN 61810-1
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## Technical data

### Standards and Regulations

	VDE 0435-201
	EN 50178
	IEC 62103
Degree of pollution	3
Overvoltage category	II

## 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 2.0	EC000196
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

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

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## Approvals


Ex Approvals

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Approvals submitted

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### Approval details


UL Listed 

VDE Gutachten mit Fertigungsüberwachung 

cUL Listed 

EAC

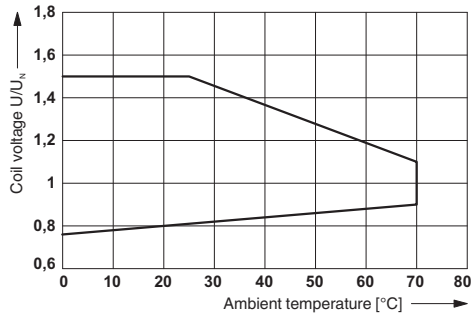
EAC

cULus Listed 

## Drawings

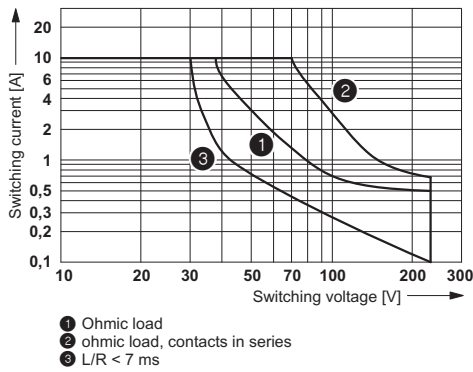
# Single relay - REL-IR/L-230AC/2X21 - 2834070

Diagram



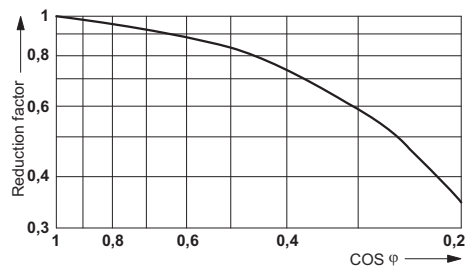
Operating voltage range

Diagram



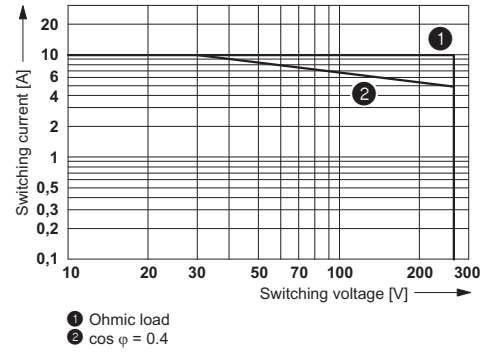
DC interrupting rating

Diagram



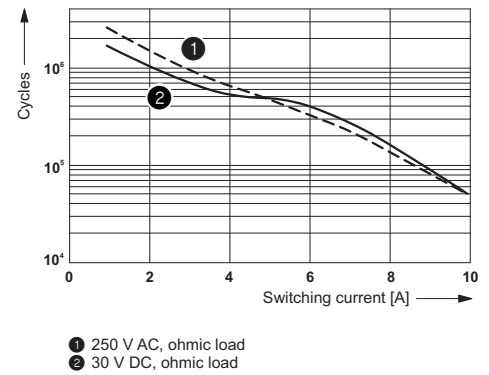
Service life reduction factor

Diagram



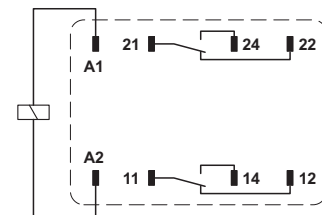
AC interrupting rating

Diagram



Electrical service life

Circuit diagram



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

