Single relay - REL-IR/LDM- 48DC/2X21 - 2834177

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

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

Product Features

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

Key Commercial Data

Packing unit	1 pc
Minimum order quantity	10 pc
Weight per Piece (excluding packing)	38.59 g
Custom tariff number	85364190
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

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Technical data

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	14 ms
Coil resistance	2560 Ω ±15 % (at 20 °C)
Power dissipation for nominal condition	0.91 W

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 10^7 cycles
Standards/regulations	DIN EN 61810-1
	VDE 0435-201
	EN 50178
	IEC 62103
Degree of pollution	2
Overvoltage category	II
Mounting position	any
Assembly instructions	On relay base PR2

Standards and Regulations

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Technical data

Standards and Regulations

Standards/regulations	DIN EN 61810-1
	VDE 0435-201
	EN 50178
	IEC 62103
Degree of pollution	2
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

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

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Approvals

Ex Approvals

Approvals submitted

Approval details

UL Listed

VDE Gutachten mit Fertigungsüberwachung

cUL Listed

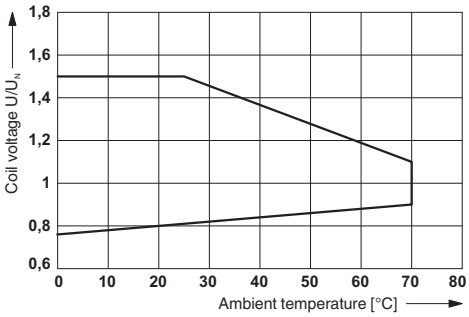
EAC

cULus Listed

Drawings

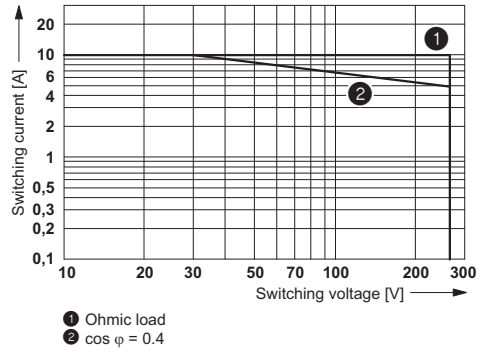
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Diagram



Operating voltage range

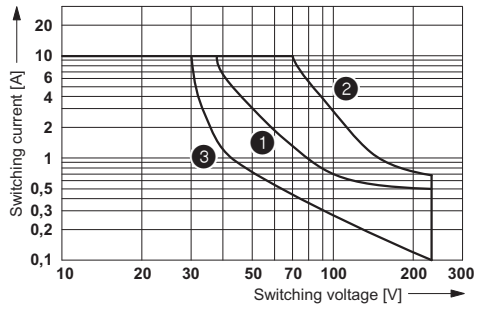
Diagram



1 Ohmic load
2 cos φ = 0.4

AC interrupting rating

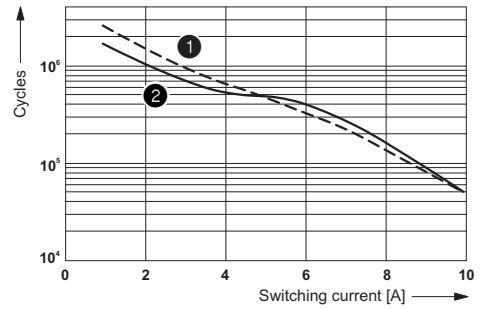
Diagram



1 Ohmic load
2 ohmic load, contacts in series
3 L/R < 7 ms

DC interrupting rating

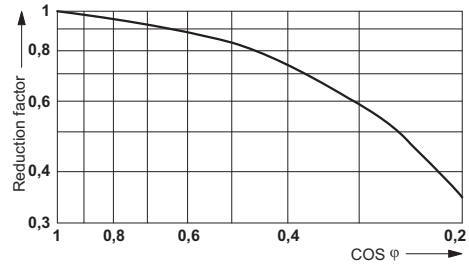
Diagram



1 250 V AC, ohmic load
2 30 V DC, ohmic load

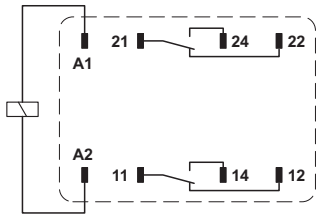
Electrical service life

Diagram



Service life reduction factor

Circuit diagram



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

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