

# REL-OR/LDP- 24DC/1/MB - Single relay



2901901

<https://www.phoenixcontact.com/us/products/2901901>

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Plug-in octal relay with power contacts, specially designed for switching high DC loads, 1 N/O contact, detectable manual operation, status LED, blowout magnet, coil voltage: 24 V DC

## Commercial data

Item number	2901901
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C460
Product key	DK6193
GTIN	4046356667487
Weight per piece (including packing)	109.3 g
Weight per piece (excluding packing)	109.3 g
Customs tariff number	85364190
Country of origin	IN

## Technical data

### Product properties

Product type	Single relay
Operating mode	100% operating factor
Mechanical service life	approx. $10^7$ cycles

### Insulation characteristics

Overvoltage category	III
Pollution degree	3

### Data management status

Date of last data management	05.09.2025
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### Electrical properties

Maximum power dissipation for nominal condition	1.32 W
Test voltage (Winding/contact)	2.5 kV <sub>rms</sub> (50 Hz, 1 min., winding/contact)

### Input data

#### Coil side

Nominal input voltage $U_N$	24 V DC
Input voltage range	15.6 V DC ... 36 V DC
Input voltage range in reference to $U_N$	see diagram
Typical input current at $U_N$	55 mA
Typical response time	20 ms
Typical release time	30 ms
Protective circuit	Freewheeling diode
Operating voltage display	Yellow LED
Coil resistance	443 $\Omega$ $\pm$ 10 %

### Output data

#### Switching

Contact switching type	1 N/O contact
Type of switch contact	Single contact
Note regarding the switch contact	Series connection, 2 N/O contacts with blowout magnet
Contact material	AgNi
Maximum switching voltage	250 V AC 220 V DC
Minimum switching voltage	10 V (at 10 mA)
Limiting continuous current	10 A
Maximum inrush current	30 A (20 ms)
Min. switching current	10 mA (at 10 V)
Interrupting rating (ohmic load) max.	2500 VA (for 250 V AC)

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## Dimensions

Width	35 mm
Height	35 mm
Depth	58.5 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	RT I
Ambient temperature (operation)	-40 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C

## Standards and regulations

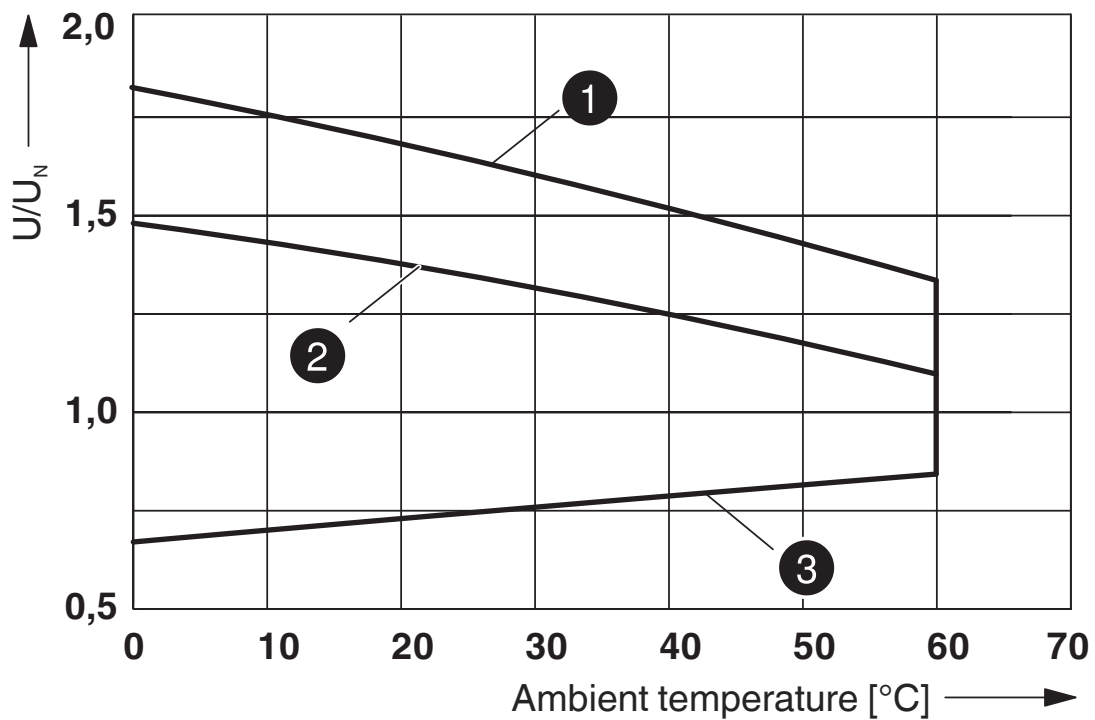
Standards/regulations	IEC 61810
	EN 60947

## Mounting

Assembly note	On relay base PR3
Mounting position	any

Drawings

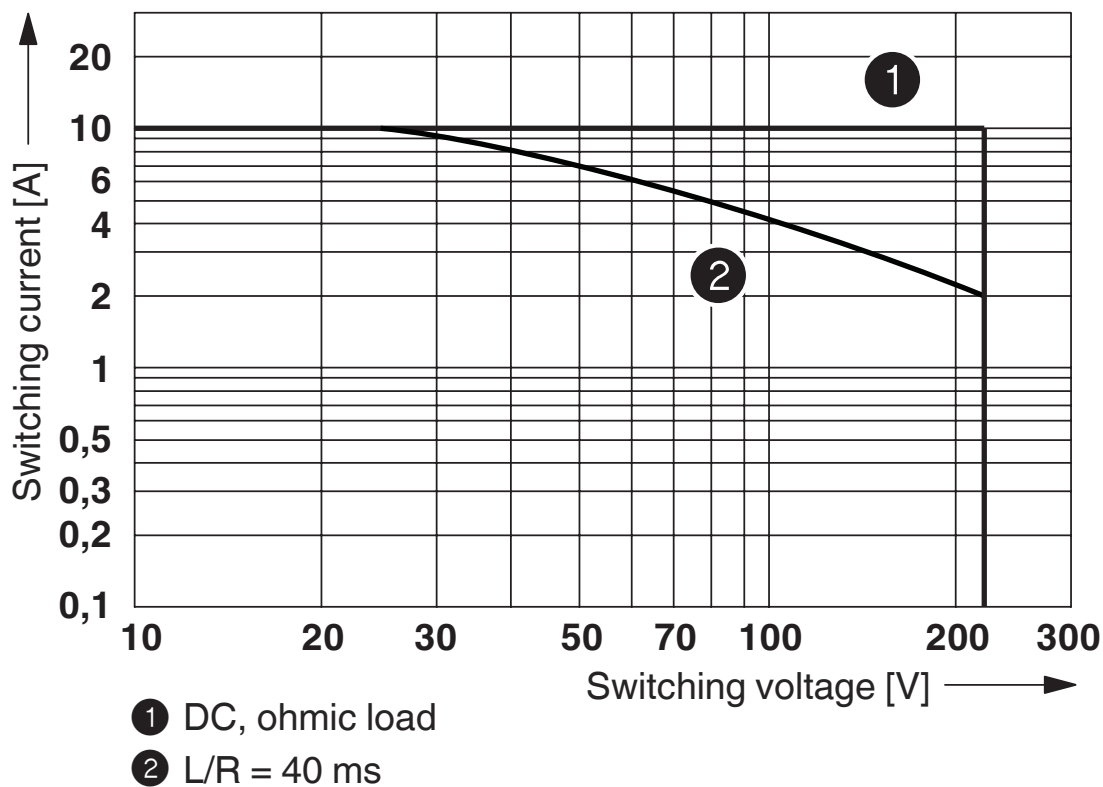
Diagram



- ① Maximum operating voltage without load current (0 A)
- ② Maximum operating voltage at limiting continuous current (10 A)
- ③ Minimum pick-up voltage without pre-excitation

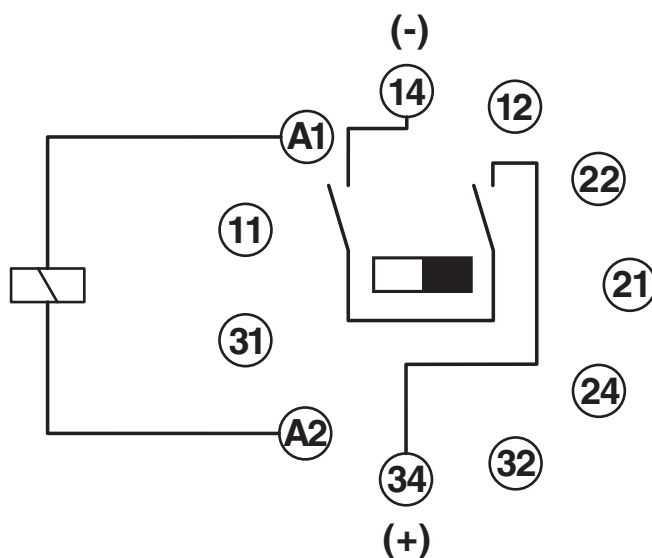
Operating voltage range of the relay

Diagram



DC interrupting rating

Circuit diagram



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## Environmental product compliance

### China RoHS

Environment friendly use period (EFUP)	EFUP-5 An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
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### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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