

## INDUSTRIAL COMPONENT DATA

# REL-MR- 48DC/21HC 2834821 PHOENIX CONTACT Single relay

Brand: PHOENIX CONTACT | Manufacturer Part Number: REL-MR-48DC/21HC



|                 |                  |
|-----------------|------------------|
| Manufacturer    | PHOENIX CONTACT  |
| MPN / Reference | REL-MR-48DC/21HC |
| Catalog number  | 2834821          |
| Category        | Switching relay  |
| Minimum order   | 1 Pcs            |
| Document ID     | EO-A5FBBB46E5    |
| Generated       | 2026-08-01       |

## Product Overview

Single relay

Plug-in miniature power relay, with power contact for high constant currents, 1 switched contact, input voltage 48 V DC

## STRUCTURED PRODUCT DATA

## Technical Specifications

No structured technical attributes are currently available. Submit an RFQ for technical review.

## Classification & Catalog Path

|              |                                     |
|--------------|-------------------------------------|
| Catalog path | PHOENIX CONTACT > Industrial Relays |
|--------------|-------------------------------------|

## Additional Product Information

Technical dataProduct propertiesProduct type Single relay

Operating mode 100% operating factor

Mechanical service life 3x 10<sup>7</sup>cycles

Data management status

Date of last data management 02.05.2024

Article revision 01

Insulation characteristics

Overvoltage category III

Pollution degree 3

Electrical propertiesService life electrical see diagram

Maximum power dissipation for nominal condition 0.42 W

Test voltage (Winding/contact) 5 kV AC (50 Hz, 1 min., winding/contact)

Input dataCoil side

Nominal input voltage UN 48 V DC

Input voltage range 31.2 V DC ... 115.2 V DC  
Drive and function monostable  
Drive (polarity) non-polarized  
Typical input current at UN 8.7 mA  
Typical response time 7 ms  
Typical release time 3 ms  
Coil resistance 5520  $\Omega$   $\pm$ 10 % (at 20 °C)  
Output dataSwitching  
Contact switching type 1 changeover contact  
Type of switch contact Single contact  
Contact material AgNi  
Maximum switching voltage 250 V AC/DC  
Minimum switching voltage 12 V (at 10 mA)  
Limiting continuous current 16 A  
Maximum inrush current 50 A (20 ms)  
Min. switching current 10 mA (at 12 V)  
Interrupting rating (ohmic load) max. 384 W (at 24 V DC)  
58 W (at 48 V DC)  
48 W (at 60 V DC)  
50 W (at 110 V DC)  
80 W (at 220 V DC)  
4000 VA (for 250 V AC)  
Motor load according to UL 508 1/2 HP, 120 V AC (N/O contact)  
1 HP, 240 V AC (N/O contact)  
1/3 HP, 120 V AC (N/C contact)  
3/4 HP, 240 V AC (N/C contact)  
1/4 HP, 200 ... 250 V AC  
Connection dataConnection method Plug / solder connection  
DimensionsDimensional drawing  
Width 12....

## REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send PHOENIX CONTACT / REL-MR-48DC/21HC with the required quantity to [info@electricaonline.com](mailto:info@electricaonline.com) or use [electricaonline.com/request-quote](https://electricaonline.com/request-quote).

### GLOBAL OFFICES

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