

Single relay - REL-MR- 48DC/21-21AU - 2834847

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)




Plug-in miniature relay, with multi-layer contact, 2 PDT, input voltage 48 V DC

Why buy this product

- RT III wash tight (comparable with IP67)
- Switching current of up to 16 A



Key commercial data

Packing unit	0
Minimum order quantity	10
Catalog page	Page 60 (IF-2011)
GTIN	 4 046356 118934
Custom tariff number	85364900
Country of origin	AUSTRIA

Technical data

Coil side

Nominal input voltage U_N	48 V DC
Nominal input current at U_{IN}	8.7 mA
Typical response time	7 ms
Typical release time	3 ms
Coil resistance	5520 Ω \pm 10 % (at 20 °C)

Contact side

Contact type	Single contact, 2-PDT
Contact material	AgNi, hard gold-plated
Maximum switching voltage	30 V AC
Maximum switching voltage	36 V DC
Minimum switching voltage	100 mV (at 10 mA)
Maximum inrush current	50 mA
Min. switching current	1 mA (at 24 V)

Single relay - REL-MR- 48DC/21-21AU - 2834847

Technical data

Contact side

Limiting continuous current	50 mA
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)
Note	the following values are applicable if a gold layer is destroyed
Maximum switching voltage	250 V
Limiting continuous current	8 A
Maximum inrush current	15 A (300 ms)
Interrupting rating (ohmic load) max.	190 W (at 24 V DC)
Interrupting rating (ohmic load) max.	100 W (for 48 V DC)
Interrupting rating (ohmic load) max.	60 W (for 60 V DC)
Interrupting rating (ohmic load) max.	44 W (for 110 V DC)
Interrupting rating (ohmic load) max.	60 W (for 220 V DC)
Interrupting rating (ohmic load) max.	2000 VA (for 250 V AC)

General data

Width	12.7 mm
Height	29 mm
Depth	15.7 mm
Test voltage relay winding/relay contact	5 kV AC (50 Hz, 1 min.)
Test voltage relay contact/relay contact	2.5 kV AC (50 Hz, 1 min.)
Ambient temperature (operation)	-40 °C ... 85 °C
Operating mode	100% operating factor
Mechanical service life	3 x 10 ⁷ cycles
Standards/regulations	IEC 60664
Standards/regulations	EN 50178
Standards/regulations	IEC 62103
Rated surge voltage / insulation	Basic insulation
Pollution degree	3
Surge voltage category	III
Mounting position	Any
Assembly instructions	Can be aligned without spacing (> 70 °C ≥ 2.5 mm)

Classifications

ETIM

ETIM 2.0	EC000196
ETIM 3.0	EC000196
ETIM 4.0	EC000196
ETIM 5.0	EC000196

UNSPSC

UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39121515

Single relay - REL-MR- 48DC/21-21AU - 2834847

Classifications

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121515

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

Approvals

Approvals

Approvals

UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

UL Recognized

VDE Gutachten mit Fertigungsüberwachung

cUL Recognized

cULus Recognized

Single relay - REL-MR- 48DC/21-21AU - 2834847

Accessories

Additional products

Relay socket - PR1-BSC2/2X21 - 2833518



Relay socket PR1..., for miniature power relay or miniature switching relay with 1 or 2 PDT or solid-state relay of same construction, 2/2 level design, screw connections, connection facility for input/interference suppression modules

Relay socket - PR1-BSC3/2X21 - 2833521



Relay socket PR1..., for miniature power relay or miniature switching relay with 1 or 2 PDT or solid-state relay of same construction, 1/3 level design, screw connections, connection facility for input/interference suppression modules

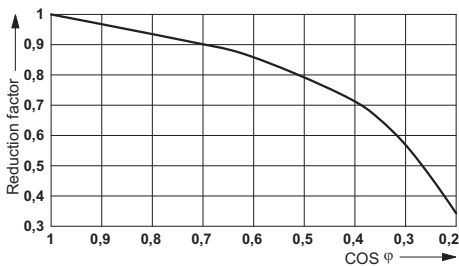
Relay socket - PR1-BSP3/2X21 - 2833534



Relay socket PR1..., for miniature power relay or miniature switching relay with 1 or 2 PDT or solid-state relay of same construction, 1/3 level design, spring-cage connections, connection facility for input/interference suppression modules

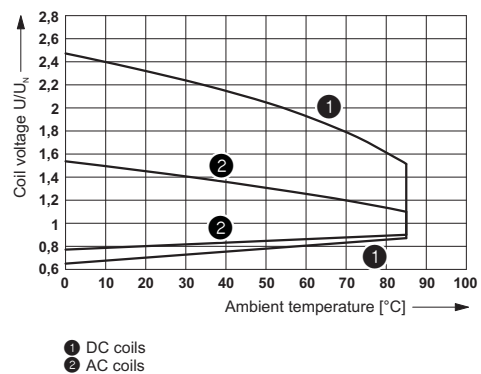
Drawings

Diagram



Service life reduction factor with various cos phi

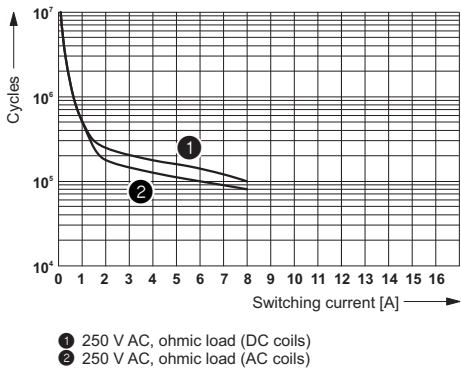
Diagram



Operating voltage range

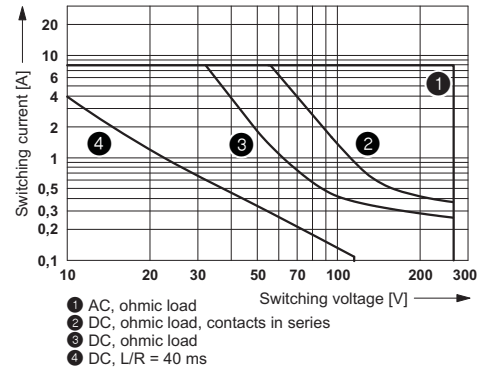
Single relay - REL-MR- 48DC/21-21AU - 2834847

Diagram



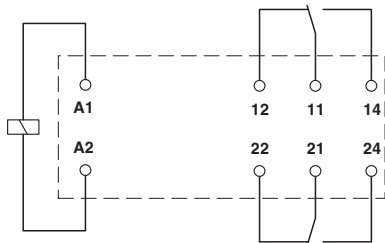
Electrical service life

Diagram



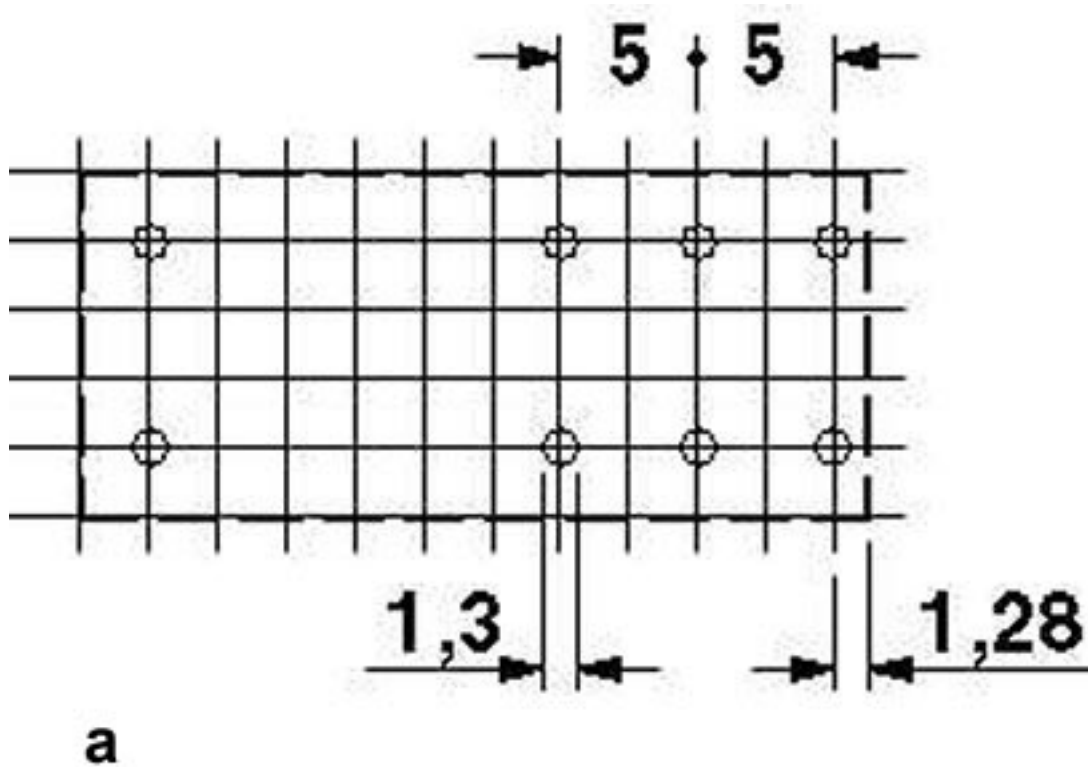
Interrupting rating

Circuit diagram



Single relay - REL-MR- 48DC/21-21AU - 2834847

Drilling diagram



a = pitch division 2.5 mm

Dimensioned drawing

