

## Single relay - REL-MR- 24DC/21HC - 2961312

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Pluggable miniature relays, with power contact for high continuous current, 1 PDT, input voltage 24 V DC

### Product Features

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



### Key commercial data

Packing unit	1 PCE
Minimum order quantity	10 PCE
Catalog page	Page 60 (IF-2011)
GTIN	 4 017918 187576
Custom tariff number	85364190
Country of origin	AUSTRIA

### Technical data

#### Coil side

Nominal input voltage $U_N$	24 V DC
Nominal input current at $U_{IN}$	17 mA
Typical response time	7 ms
Typical release time	3 ms
Coil resistance	1440 $\Omega \pm 10\%$ (at 20 °C)

#### Contact side

Contact type	Single contact, 1-PDT
Contact material	AgNi

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## Technical data

### Contact side

Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (at 10 mA)
Maximum inrush current	50 A (20 ms)
Min. switching current	10 mA (at 12 V)
Limiting continuous current	16 A
Interrupting rating (ohmic load) max.	384 W (at 24 V DC)
Interrupting rating (ohmic load) max.	58 W (for 48 V DC)
Interrupting rating (ohmic load) max.	48 W (for 60 V DC)
Interrupting rating (ohmic load) max.	50 W (for 110 V DC)
Interrupting rating (ohmic load) max.	80 W (for 220 V DC)
Interrupting rating (ohmic load) max.	4000 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.)
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Operating mode	100% operating factor
Mechanical service life	3 x 10 <sup>7</sup> cycles
Standards/regulations	IEC 60664
Standards/regulations	EN 50178
Standards/regulations	IEC 62103
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

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## Classifications

### UNSPSC

UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39121515
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

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#### Approvals

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

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#### Ex Approvals

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#### Approvals submitted

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### Approval details

UL Recognized

VDE Gutachten mit Fertigungsüberwachung


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### Approvals


cUL Recognized 

GOST 

GL

UL Recognized 

cUL Recognized 

cULus Recognized 

### Accessories

#### Additional products

Relay socket - PLC-BSP- 24DC/21HC - 2912345



14 mm PLC basic terminal blocks with spring-cage connection, 24 V DC input voltage (without relay or optocoupler)

Relay socket - PLC-BSP- 24UC/21HC - 2912358



14 mm PLC basic terminal blocks with spring-cage connection, 24 V AC/DC input voltage (without relay or optocoupler)

## Single relay - REL-MR- 24DC/21HC - 2961312

### Accessories

Relay socket - PLC-BSP- 48DC/21HC - 2912361



14 mm PLC basic terminal blocks with spring-cage connection, 48 V DC input voltage (without relay or optocoupler)

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Relay socket - PLC-BSC- 24DC/21HC - 2967772



14 mm PLC-HC basic terminal blocks with screw connection, 24 V DC input voltage (without relay or optocoupler)

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Relay socket - PLC-BSC- 24UC/21HC - 2967785



14 mm PLC-HC basic terminal blocks with screw connection, 24 V AC/DC input voltage (without relay or optocoupler)

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Relay socket - PLC-BSC- 48DC/21HC - 2967798



14 mm PLC-HC basic terminal blocks with screw connection, 48 V DC input voltage (without relay or optocoupler)

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Relay socket - PLC-BPT- 24DC/21HC - 2900254



14 mm PLC-HC basic terminal blocks with Push-in connection, input voltage 24 V DC (without relay or optocoupler)

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## Single relay - REL-MR- 24DC/21HC - 2961312

### Accessories

Relay socket - PLC-BPT- 24UC/21HC - 2900255



14 mm PLC-HC basic terminal blocks with Push-in connection, input voltage 24 V AC/DC (without relay or optocoupler)

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Relay socket - PLC-BPT- 48DC/21HC - 2900256



14 mm PLC-HC basic terminal blocks with Push-in connection, input voltage 48 V DC (without relay or optocoupler)

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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

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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

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Relay socket - PR1-BSP3/2X21 - 2833534



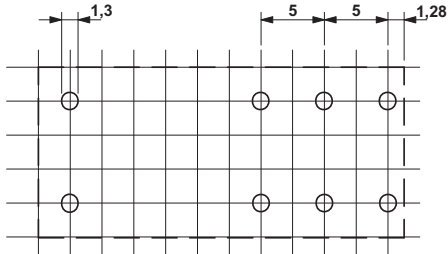
Relay socket PR1..., for miniature power relay or miniature switching relay with 1 or 2 PDT or solid-state relay of same construction, 1/3 level design, spring-cage connections, connection facility for input/interference suppression modules

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### Drawings

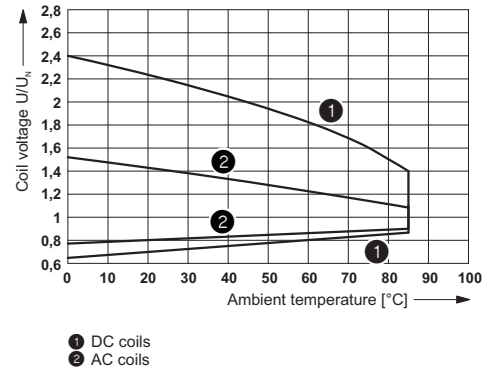
# Single relay - REL-MR- 24DC/21HC - 2961312

Drilling diagram



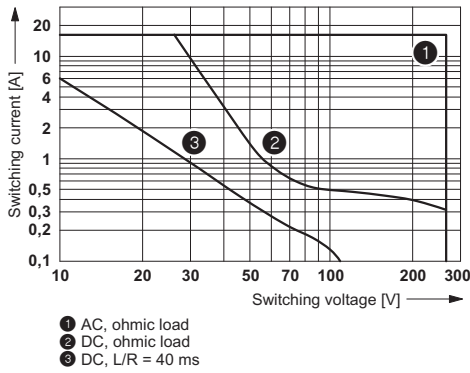
a = pitch division 2.5 mm

Diagram



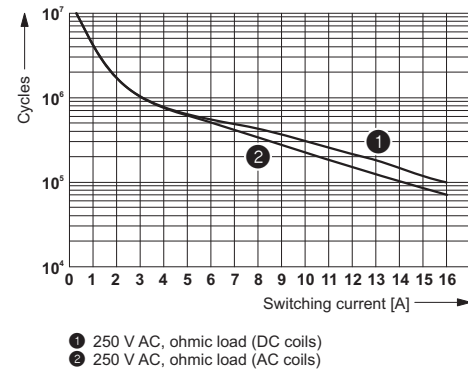
Operating voltage range

Diagram



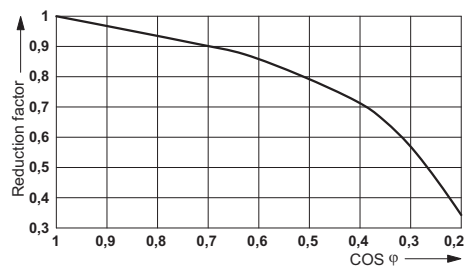
Interrupting rating

Diagram



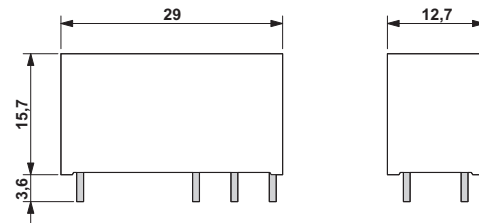
Electrical service life

Diagram



Service life reduction factor with various cos phi

Dimensioned drawing



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Circuit diagram

