

# Single relay - REL-MR- 60DC/21 - 2961118

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Pluggable miniature relays, with power contact, 1 PDT, input voltage 60 V DC

The illustration shows the version REL-MR- 24DC/21

## Product Features

- Safe isolation according to DIN EN 50178 between coil and contact
- High degree of protection, up to RT III (comparable with IP67) depending on type
- Power contacts up to 6 A

## Key commercial data

package_quantity	10
GTIN	4017918130886

## Technical data

### Dimensions

Width	5 mm
Height	28 mm
Depth	15 mm

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

### Coil side

Nominal input voltage $U_N$	60 V DC
Nominal input current at $U_{IN}$	3 mA
Typical response time	5 ms
Typical release time	2.5 ms
Coil resistance	20500 $\Omega$ +/-15% (at 20 °C)

### Contact side

Contact type	Single contact, 1-PDT
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 100 mA)
Maximum inrush current	(on request)

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## Technical data

### Contact side

Min. switching current	10 mA (at 12 V)
Limiting continuous current	6 A
Interrupting rating (ohmic load) max.	140 W (at 24 V DC)
Interrupting rating (ohmic load) max.	20 W (at 48 V DC)
Interrupting rating (ohmic load) max.	18 W (at 60 V DC)
Interrupting rating (ohmic load) max.	23 W (at 110 V DC)
Interrupting rating (ohmic load) max.	40 W (at 220 V DC)
Interrupting rating (ohmic load) max.	1500 VA (for 250 V AC)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	2 A (at 24 V, DC13)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	0.2 A (at 110 V, DC13)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	0.1 A (at 220 V, DC13)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	3 A (at 24 V, AC15)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	3 A (at 120 V, AC15)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	3 A (at 230 V, AC15)

### General

Test voltage relay winding/relay contact	4 kV AC (50 Hz, 1 min.)
Operating mode	100% operating factor
Mechanical service life	2 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	In rows with zero spacing

### Connection data

Connection method	Plug / solder connection
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## 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	27371001

### ETIM

ETIM 2.0	EC000196
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## classifications

### ETIM

<b>ETIM 3.0</b>	EC000196
<b>ETIM 4.0</b>	EC000196
<b>ETIM 5.0</b>	EC000196

### UNSPSC

<b>UNSPSC 6.01</b>	30211916
<b>UNSPSC 7.0901</b>	39121515
<b>UNSPSC 11</b>	39121515
<b>UNSPSC 12.01</b>	39121515
<b>UNSPSC 13.2</b>	39121515

## approvals

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

### Approval details

UL Recognized
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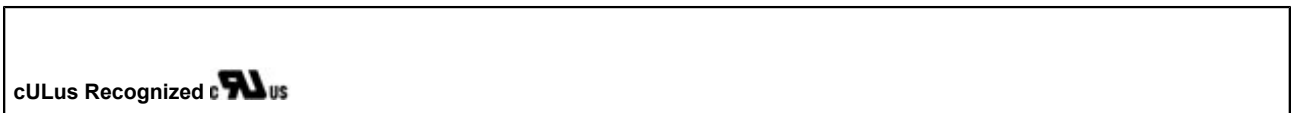
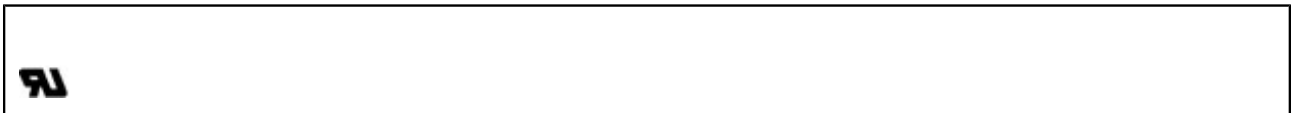
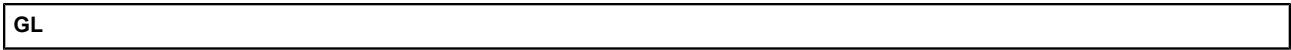
VDE Gutachten mit Fertigungsüberwachung	
Nominal voltage UN	
Nominal current IN	
mm <sup>2</sup> /AWG/kcmil	

VDE Zeichengenehmigung	
Nominal voltage UN	
Nominal current IN	
mm <sup>2</sup> /AWG/kcmil	

cUL Recognized
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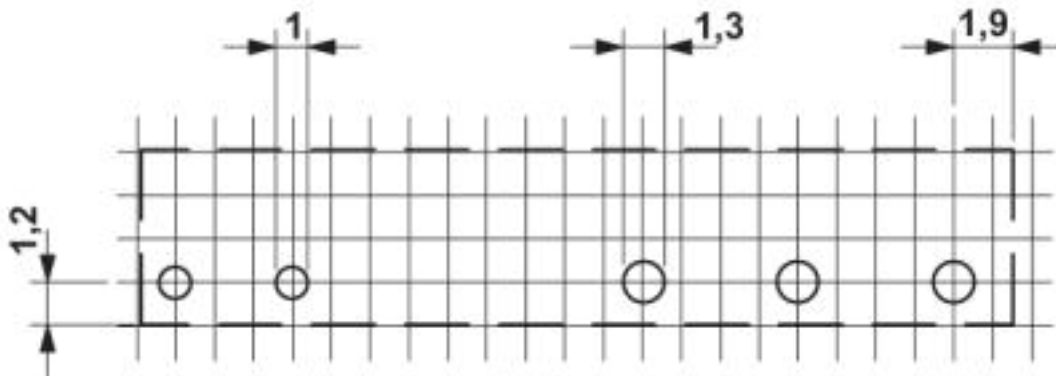
# Single relay - REL-MR- 60DC/21 - 2961118

approvals



Drawings

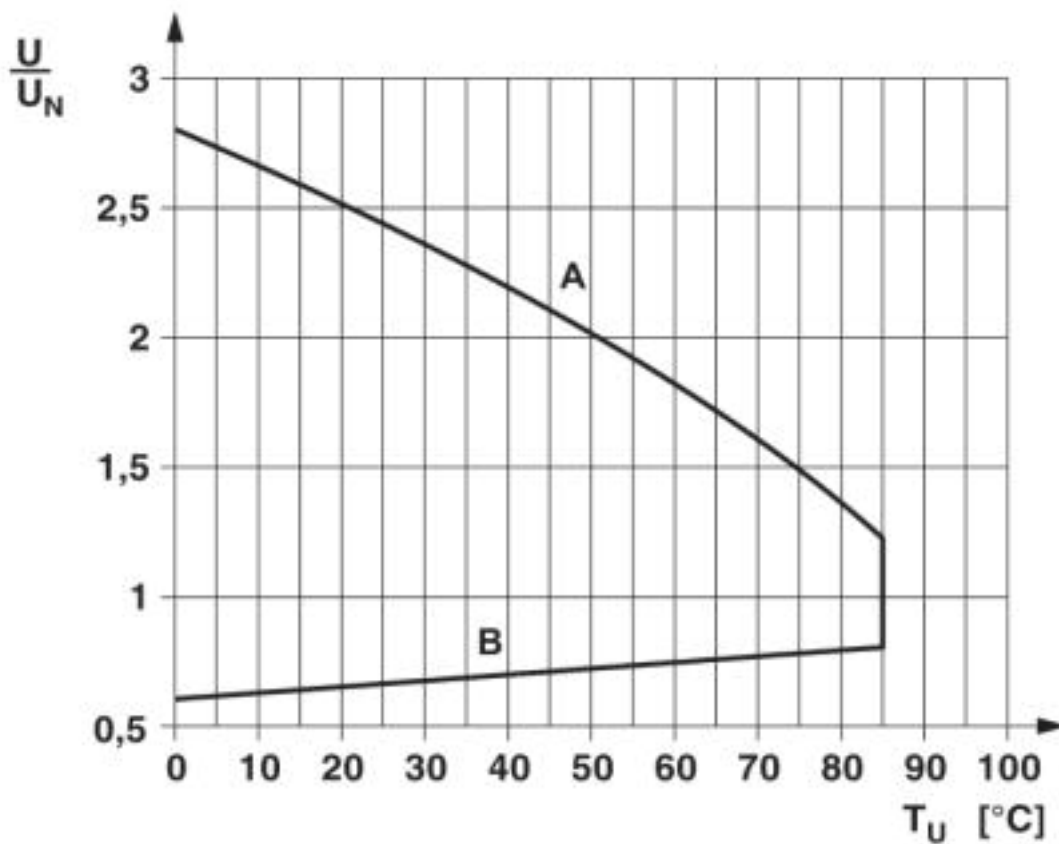
Drilling diagram



a = pitch division 1.25 mm and 1.27 mm

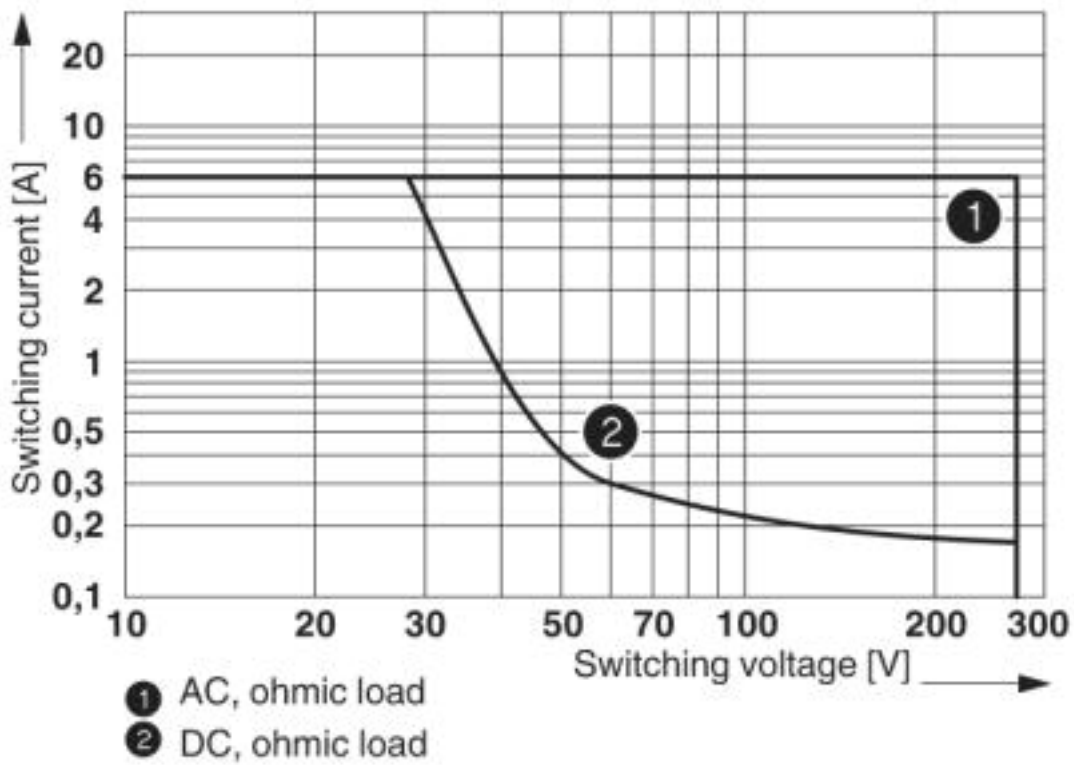
# Single relay - REL-MR- 60DC/21 - 2961118

Diagram



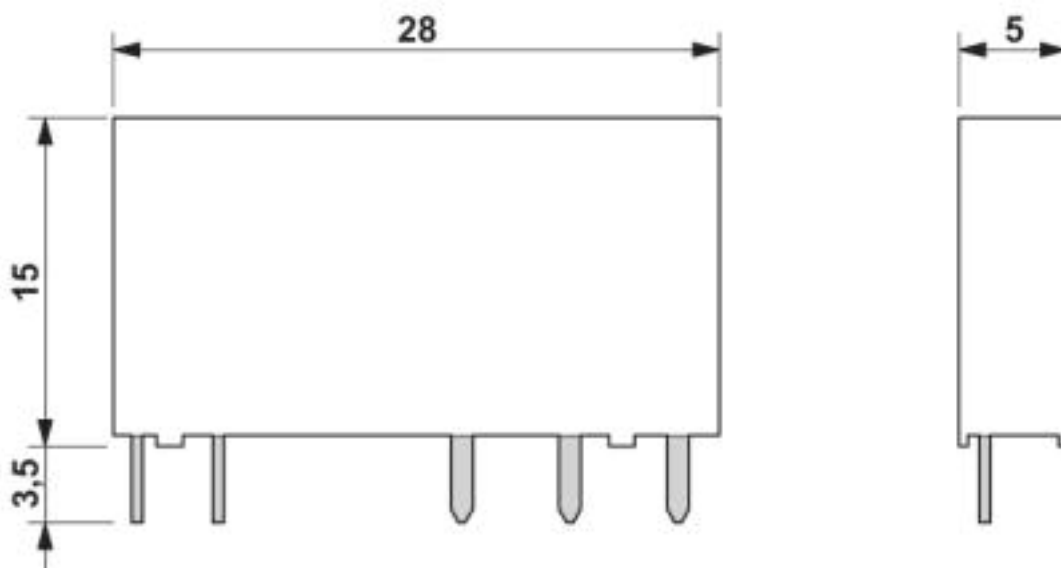
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Diagram



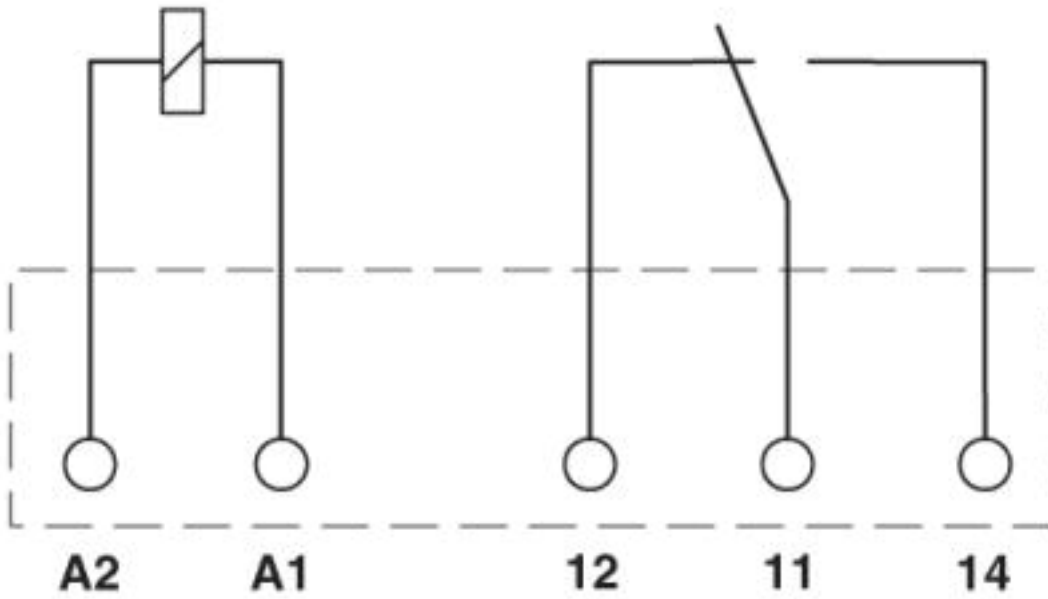
Interrupting rating

Dimensioned drawing



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Circuit diagram



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