

## Single relay - REL-MR- 24DC/1IC - 2961341

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Pluggable miniature relays, with power contact for lamp loads and capacitive loads, 1 N/O contact, input voltage 24 V DC

### 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 16 A



### Key commercial data

Packing unit	1 pc
Minimum order quantity	10 pc
Weight per Piece (excluding packing)	16.06 GRM
Custom tariff number	85364190
Country of origin	Austria

### Technical data

#### Dimensions

Width	12.7 mm
Height	29 mm
Depth	15.7 mm

#### Ambient conditions

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

#### Coil side

Nominal input voltage $U_N$	24 V DC
Input voltage range in reference to $U_N$	see diagram
Typical input current at $U_N$	17 mA

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## Technical data

### Coil side

Typical response time	8 ms
Typical release time	3 ms
Coil resistance	1440 $\Omega$ $\pm$ 10 % (at 20 °C)

### Contact side

Contact type	1 N/O contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (at 100 mA)
Maximum inrush current	80 A (20 ms)
	130 A (peak, at capacitive load, 230 V AC, 24 $\mu$ F)
Min. switching current	100 mA (at 12 V DC)
Limiting continuous current	16 A
Interrupting rating (ohmic load) max.	80 W (at 220 V DC)
	50 W (at 110 V DC)
	48 W (at 60 V DC)
	58 W (at 48 V DC)
	384 W (at 24 V DC)
	4000 VA (for 250 V AC)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	2 A (at 24 V, DC13)
	0.2 A (at 110 V, DC13)
	0.2 A (at 250 V, DC13)
	6 A (at 24 V, AC15)
	6 A (at 120 V, AC15)
	6 A (at 250 V, AC15)

### General

Test voltage relay winding/relay contact	5 kV AC (50 Hz, 1 min.)
Operating mode	100% operating factor
Mechanical service life	3 x 10 <sup>7</sup> cycles
Standards/regulations	IEC 60664
	EN 50178
	IEC 62103
Pollution degree	3
Surge voltage category	III
Mounting position	any
Assembly instructions	Can be aligned without spacing (> 70 °C $\geq$ 2.5 mm)

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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
ETIM 3.0	EC000196
ETIM 4.0	EC000196
ETIM 5.0	EC000196

### UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121515
UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39121515

## Approvals

### Approvals

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#### Approvals

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

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#### Ex Approvals

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#### Approvals submitted

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#### Approval details

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### Approvals

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### Accessories

#### Additional products

Relay socket - PLC-BPT- 24DC/ 1IC/ACT - 2900260



14 mm PLC actuator basic terminal block with load return line connection (BB), Push-in connection, 24 V DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.

Relay socket - PLC-BSP- 24DC/ 1IC/ACT - 2912400



14 mm PLC actuator basic terminal block with load return line connection (BB), spring-cage connection, 24 V DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.

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### Accessories

Relay socket - PLC-BSC- 24DC/ 1IC/ACT - 2967837



14 mm PLC actuator basic terminal block with load return line connection (BB), screw connection, 24 V DC input voltage, without relay or solid-state relay. Note: if fitted with a PDT relay, only the N/O contact is led out.

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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



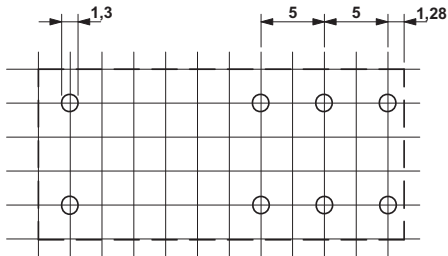
Relay socket PR1..., for miniature power relay or miniature switching relay with 1 or 2 PDT or solid-state relay of same construction, 1/3 level design, spring-cage connections, connection facility for input/interference suppression modules

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### Drawings

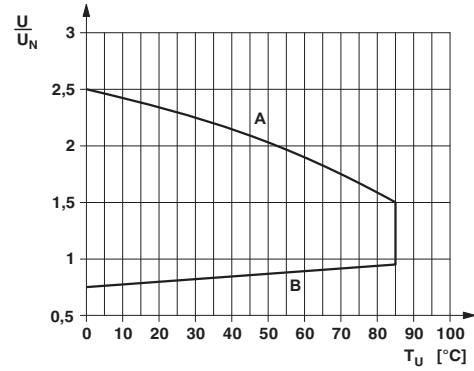
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Drilling diagram

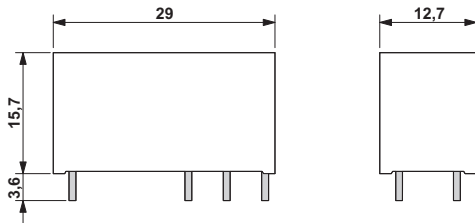


a = pitch division 2.5 mm

Diagram



Dimensioned drawing



Circuit diagram

