

## Single relay - REL-MR- 24DC/21HC/MS - 2987888

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Plug-in miniature relay, with power contact, 1 PDT, test button, mechanical switch position indicator, status LED, freewheeling diode, polarity A1+, A2-, input voltage 24 V DC

### Product Features

- With detectable manual operation
- Integrated status LED
- Switching current of up to 16 A
- Mechanical switch position indicator
- DC types with integrated freewheeling diode



### Key Commercial Data

Packing unit	1 pc
Minimum order quantity	10 pc
Weight per Piece (excluding packing)	18.0 g
Custom tariff number	85364190
Country of origin	China

### Technical data

#### Dimensions

Width	12.7 mm
Height	29 mm
Depth	25 mm

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

#### Coil side

Nominal input voltage $U_N$	24 V DC
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## Technical data

### Coil side

Input voltage range in reference to $U_N$	see diagram
Typical input current at $U_N$	18 mA
Typical response time	9 ms
Typical release time	6 ms
Power dissipation for nominal condition	0.43 W

### Contact side

Contact type	1 PDT
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V (at 10 mA)
Min. switching current	10 mA (at 12 V)
Maximum inrush current	32 A (20 ms)
Limiting continuous current	16 A
Interrupting rating (ohmic load) max.	4000 VA (for 250 V AC)
Switching capacity in acc. with DIN VDE 0660/IEC 60947	2 A (at 24 V, DC13)
	3 A (at 24 V, AC15)
	3 A (at 120 V, AC15)
	3 A (at 240 V, AC15)

### General

Test voltage relay winding/relay contact	5 kV AC (50 Hz, 1 min.)
Mechanical service life	$5 \times 10^6$ cycles
Standards/regulations	DIN EN 61810-1
	VDE 0435-201
	EN 50178
	IEC 62103

### Standards and Regulations

Connection in acc. with standard	CUL
Standards/regulations	DIN EN 61810-1
	VDE 0435-201
	EN 50178
	IEC 62103

### Classifications

eCl@ss

eCl@ss 4.0	27371104
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## Classifications

### eCl@ss

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	27371601
eCl@ss 9.0	27371601

### ETIM

ETIM 2.0	EC000196
ETIM 3.0	EC000196
ETIM 4.0	EC000196
ETIM 5.0	EC001437

### 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 Zeichengenehmigung / cUL Recognized / EAC / EAC / 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

UL Recognized

VDE Zeichengenehmigung

cUL Recognized

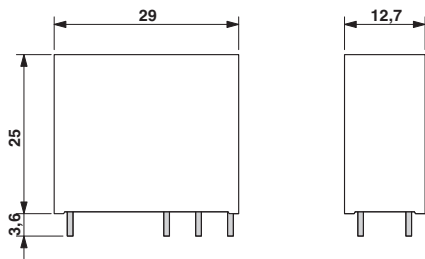
EAC

EAC

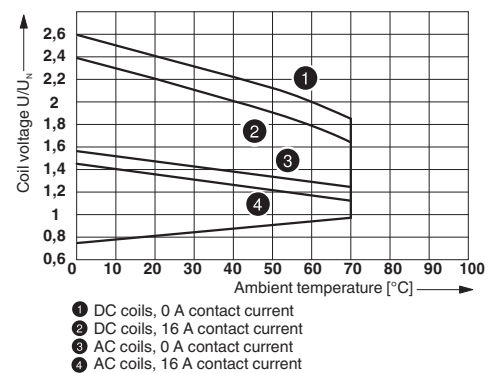
cULus Recognized

## Drawings

Dimensional drawing



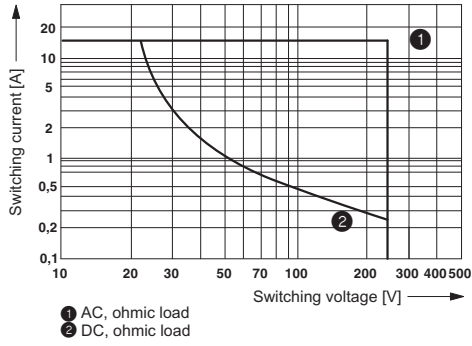
Diagram



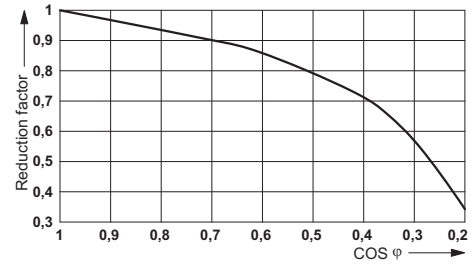
Operating voltage range

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Diagram



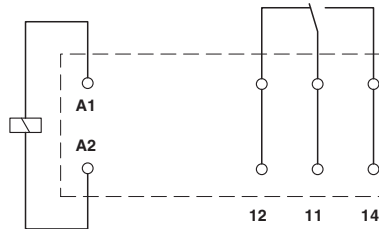
Diagram



Interrupting rating

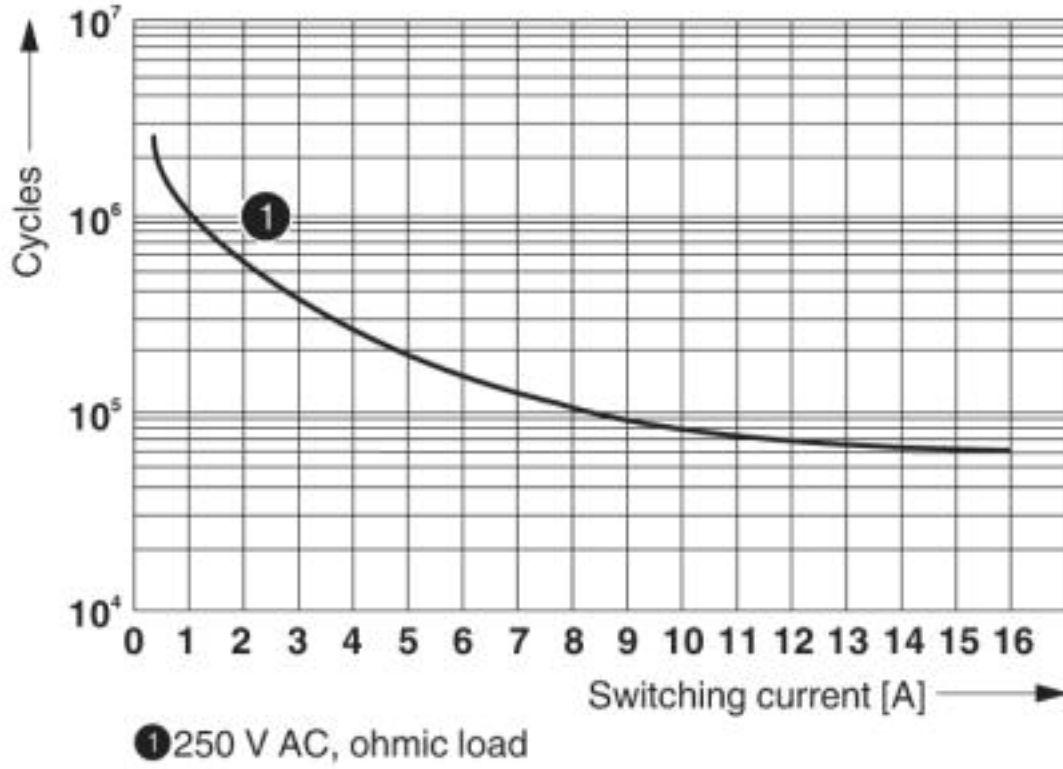
Service life reduction factor with various cos phi

Circuit diagram



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Diagram



Electrical service life