

# Single relay - REL-MR-BL-100AC/21HC/MS - 2908179


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Plug-in miniature relay, with power contact, 1 changeover contact, test button, mechanical switch position indicator, polarity: bipolar, input voltage: 100 V AC



## Key Commercial Data

Packing unit	10 pc
Minimum order quantity	10 pc
GTIN	 4 055626 277882
GTIN	4055626277882

## Technical data

### Dimensions

Width	13 mm
Height	29 mm
Depth	25.5 mm

### Ambient conditions

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

### Coil side

Nominal input voltage $U_N$	100 V AC
Input voltage range in reference to $U_N$	0.8 ... 1.35 (see diagram)
Mains frequency	50/60 Hz
Typical input current at $U_N$	8 mA
Typical response time	3 ms ... 12 ms (depending on phase relation)
Typical release time range	2 ms ... 8 ms (depending on phase relation)
Power dissipation for nominal condition	0.8 W

### Contact side

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## Technical data

### Contact side

Contact type	1 PDT
Type of switch contact	Single contact
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.	384 W (at 24 V DC)
	62 W (at 48 V DC)
	48 W (at 60 V DC)
	53 W (at 110 V DC)
	66 W (at 220 V DC)

### General

Test voltage relay winding/relay contact	5 kV AC (50 Hz, 1 min.)
Operating mode	100% operating factor
Degree of protection	RT II
Mechanical service life	5x 10 <sup>6</sup> cycles
Service life, electrical	see diagram
Mounting position	any

### Standards and Regulations

Standards/regulations	IEC 61810
	IEC 60664
Rated insulation voltage	250 V AC
Degree of pollution	2
Overvoltage category	III

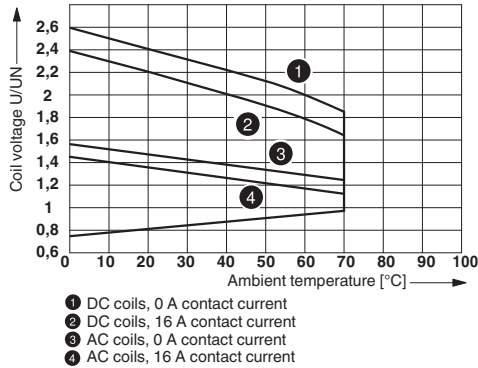
### Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

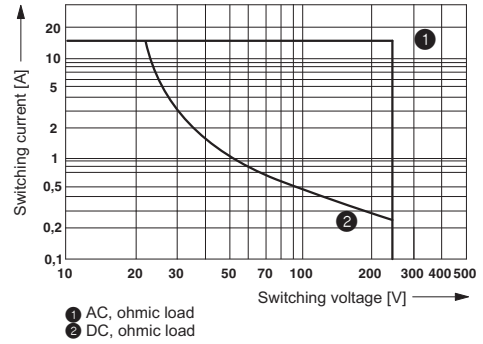
## Drawings

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Diagram



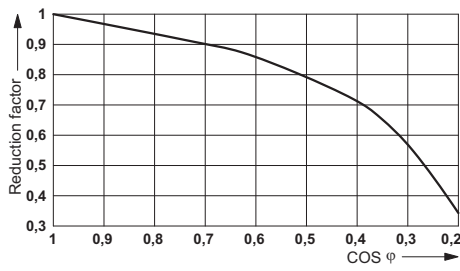
Diagram



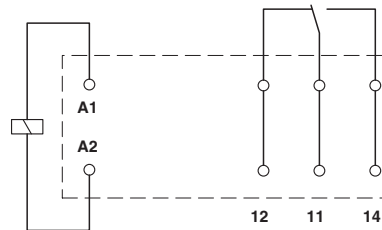
Operating voltage range

Interrupting rating

Diagram



Circuit diagram



Service life reduction factor with various cos phi

## Approvals

### Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

### Approval details

UL Recognized



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 195083

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### Approvals

cUL Recognized



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EAC



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