

## Single relay - REL-MR-230AC/21HC AU/MS - 2987930

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Plug-in miniature relay, with multi-layer contact with hard gold coating, 1 PDT, test button, mechanical switch position indicator, status LED, input voltage 230 V AC

### Why buy this product

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

### Key Commercial Data

Packing unit	10 STK
Minimum order quantity	10 STK
GTIN	 4 046356 481069
GTIN	4046356481069

### 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 $U_N$	230 V AC
Typical input current at $U_N$	3.5 mA

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## Technical data

### Coil side

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	0.81 W

### Contact side

Contact type	1 PDT
Type of switch contact	Single contact
Contact material	AgNi, hard gold-plated
Maximum switching voltage	30 V AC
	36 V DC
Minimum switching voltage	12 V (At 1 mA)
Min. switching current	1 mA (at 12 V)
Maximum inrush current	50 mA
Limiting continuous current	50 mA
Switching capacity in acc. with DIN VDE 0660/IEC 60947	3 A (at 240 V, AC15)

### Contact side (with destroyed gold layer)

Contact material	AgNi
Note	the following values are applicable if a gold layer is destroyed
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	6 V AC/DC
Limiting continuous current	16 A
Maximum inrush current	30 A (300 ms)
Min. switching current	100 mA
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 x 10 <sup>6</sup> cycles

### Standards and Regulations

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

### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
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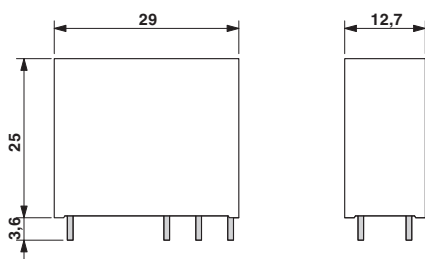
## Technical data

### Environmental Product Compliance

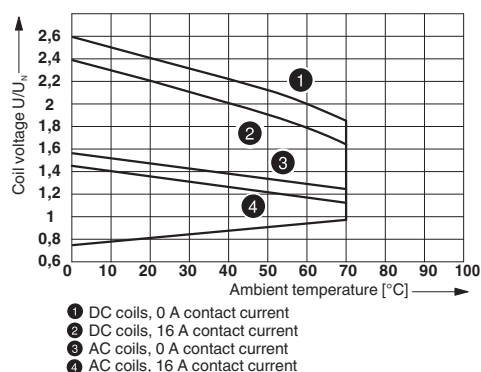
For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

Dimensional drawing

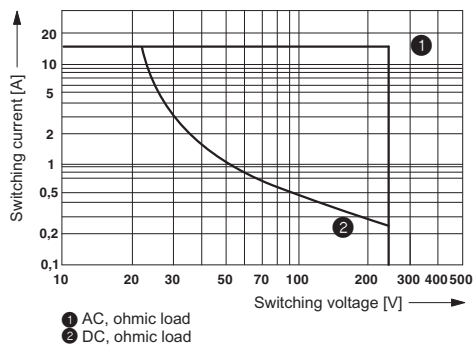


Diagram

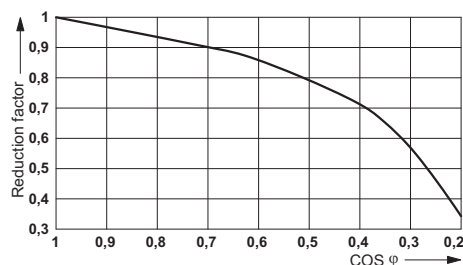


Operating voltage range

Diagram



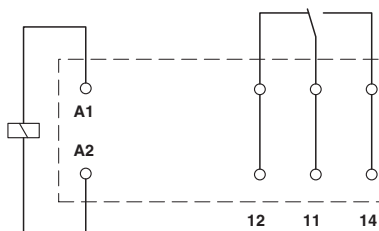
Diagram



### Interrupting rating

### Service life reduction factor with various cos phi

Circuit diagram



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## Approvals

### Approvals

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#### Approvals






UL Recognized / VDE Zeichengenehmigung / cUL Recognized / EAC / cULus Recognized

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#### Ex Approvals

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### Approval details

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 195083
VDE Zeichengenehmigung		<a href="http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx">http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx</a>	40027210
cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 195083
EAC			RU C- DE.A*30.B.01082
cULus Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	

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PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>