

# Single relay - REL-PR1-230AC/1/MB - 2908047

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Plug-in high-power relay with power contacts, specifically for switching high DC loads, 1 N/O contact, blowout magnet, coil voltage: 230 V AC



## Key Commercial Data

Packing unit	1 STK
GTIN	
GTIN	4055626266916

## Technical data

### Dimensions

Width	38.6 mm
Height	36.1 mm
Depth	45.5 mm

### Ambient conditions

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

### Coil side

Nominal input voltage $U_N$	230 V AC
Input voltage range in reference to $U_N$	see diagram
Mains frequency	50/60 Hz
Typical input current at $U_N$	12 mA
Typical response time	5 ms ... 25 ms (depending on phase relation)
Typical release time range	5 ms ... 18 ms (depending on phase relation)
Power dissipation for nominal condition	2.76 W

### Contact side

Contact type	1 N/O contact
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## Technical data

### Contact side

Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	440 V AC 250 V DC
Minimum switching voltage	5 V (At 24 mA)
Min. switching current	5 mA (at 24 V)
Maximum inrush current	50 A (20 ms) 30 A (4 s)
Limiting continuous current	16 A
Interrupting rating (ohmic load) max.	384 W (at 24 V DC) 768 W (at 48 V DC) 930 W (at 60 V DC) 1650 W (at 110 V DC) 2640 W (at 220 V DC) 4000 VA (for 250 V AC)
Switching capacity min.	120 mW
Switching capacity in acc. with DIN VDE 0660/IEC 60947	1 A (at 220 V, DC13) 1.5 A (at 240 V, AC15)

### General

Test voltage relay winding/relay contact	2.5 kV
Operating mode	100% operating factor
Degree of protection	RT I
Mechanical service life	approx. $2 \times 10^7$ cycles
Mounting position	any

### Standards and Regulations

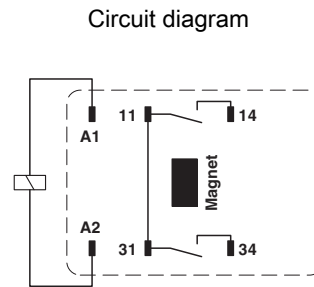
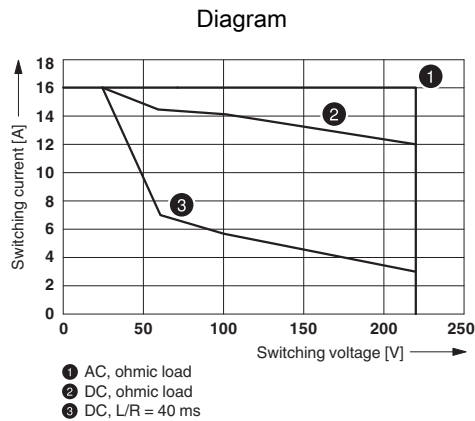
Standards/regulations	IEC 60664 IEC 61810
Rated surge voltage	4 kV
Degree of pollution	3
Overvoltage category	III

### Environmental Product Compliance

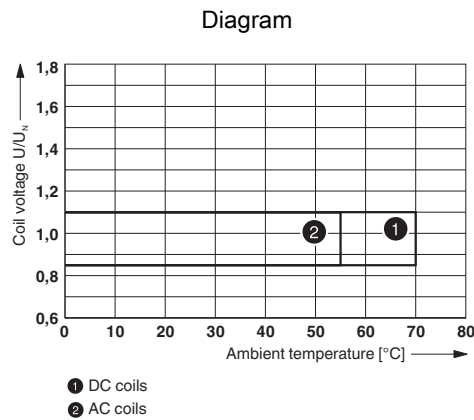
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

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## Interrupting rating



## Operating voltage range

## Approvals

### Approvals

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### Approvals

EAC / UL Recognized / cUL Recognized / CSA / cULus Recognized

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### Ex Approvals





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## Approval details

EAC		RU C- DE.A*30.B.01082
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### Approvals

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 172140
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 172140
CSA		<a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a>	70084446
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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