

HGJR Series**High voltage Mercury Reed Relay****1 Feature**

- ◆ High power mercury reed relay with dielectric strength up to 4000VDC
- ◆ High carry current
- ◆ High Insulation resistance, up to $10^{12}\Omega$
- ◆ Low contact resistance, excellent lifetime characteristics
- ◆ External magnetic and electrostatic shield
- ◆ Custom Design, conforming to Rohs directive

**2 Performance Data**

Paramenter		Units	Value	
Relay Model		/	HGJR□-1A□	HGJR□-1C□
Contact Rating		W	100	
Max.Switching Voltage (Max DC/Peak AC)		V	500	
Max.Switching Current (Max DC/Peak AC)		A	2.0	
Max.Carry Current		A	5.0	
Contact Resistance		mΩ	80	
Dielectric Strength (static)	Between contact	V	4000	
	Contact/shield to coil	V	4000	
	Contacts to shield	V	4000	
Insulation Resistance		Ω	10^{11}	
Operate Time		ms	2.0	1.5
Release Time		ms	2.0	1.5
Vibration(0~2000Hz)		G	20	
Shock(11ms, 1/2 sine)		G	50	
Operating Temp		°C	-20~+70	
Storage Temp		°C	-35~+105	
Life Expectancy		Ops	5×10^7 (at 500VDC-100mA)	
Outline Dimensions		/	Reference outline drawing	

3 Coil Parameters

Model	Nominal Voltage (VDC)	Pickup Voltage Max.(VDC)	Dropout Voltage Min.(VDC)	Operate Voltage Max.(VDC)	Coil Resistance ($\pm 10\%\Omega$ at 20°C)
HGJR□-□□	5	4	0.5	7	125
	12	9	1	16	685
	24	18	2	29	2650

地址：上海市普陀区中山北路 3000 号长城大厦 1007

ADDRESS:1007, Great Wall Building, 3000 Zhongshan North Road, Putuo District, Shanghai

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POSTAL CODE:200063

4 Example of order marking

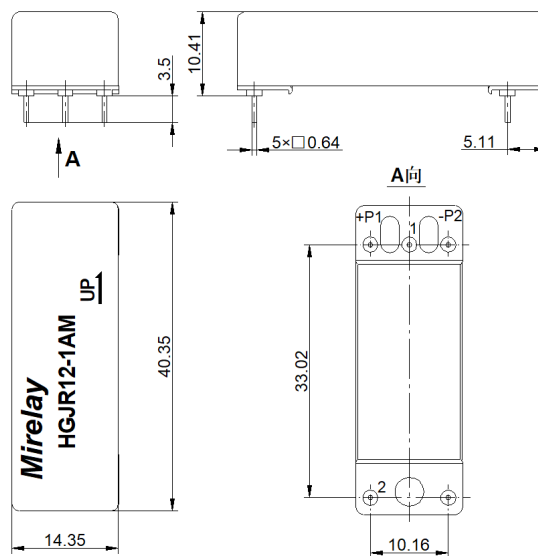
HGJR - - (XXX)

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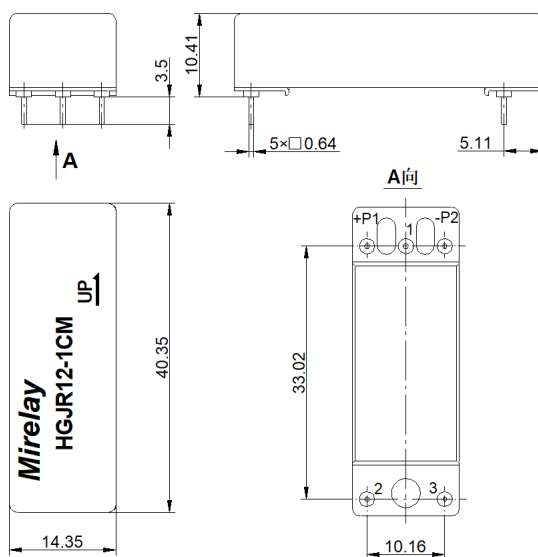
- ① Product model: HGJR
- ② Nominal coil voltage: 05: 5VDC、12: 12VDC、24: 24VDC
- ③ Contact form: 1A: 1 Form A、1C: 1 Form C
- ④ Construction: M: Metal casing、P: Plastic casing
- ⑤ Special code: Customer special requirement

5 外形尺寸图

1) HGJR -1A



2) HGJR -1C



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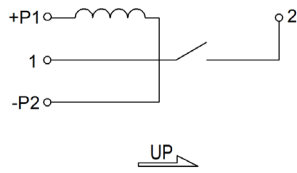
ADDRESS: 1007, Great Wall Building, 3000 Zhongshan North Road, Putuo District, Shanghai

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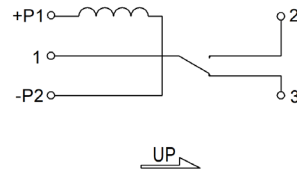
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6 接线图

1) HGJR□-1A□



2) HGJR□-1C□



7 Precautions for use

- ※ Avoid installing relays where rain falls, or where there is a strong magnetic field, or near an object with thermal radiation.
- ※ Switching inductive or capacitive load systems will produce peak voltage or current, it is recommended to use protective circuit, otherwise, may cause relay damage.
- ※ Avoid excessive packing density in use which may affect the electrical characteristics of the relay.
- ※ Mechanical impact strength is too large, will cause the relay to use the fault.
- ※ When the relay is used for wave soldering, the maximum temperature is 260℃ and the time does not exceed 5s.
- ※ Hg wet contacts must be mounted within 30° of vertical plane.

⚠Statement:

The document is for customer reference only. Specifications and parameters may be changed due to product improvement. For the specific parameters and performance of each product, please refer to the specifications and samples provided by without further notice.

Relay performance parameters in different application areas are different, so customers should choose the appropriate products according to the specific conditions of use, if in doubt, please contact for more technical support.

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