

PS No.	PS-2023-003
Version	00
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RNA-112DM-S-P 规格继电器规格书

RELAY SPECIFICATION

品名/Product Description RNA-112DM-S-P规格继电器

零件编号/Part Number -

客户名/Customer -

客户批准/Customer Approval

盖章处/STAMPING AREA

发行批准 / Issued by		
拟制	审核	批准

继电器规格书 Relay Specification	型号 Type	RNA-112DM-S-P规格	产品编号 Part Number			
2 性能/SPECIFICATIONS						
2.1 线圈部分/COIL SPECIFICATIONS						
at23°C±5°C						
额定电压 Vd.c.	动作电压 Vd.c.	释放电压 Vd.c.	允许最大线圈电压 Vd.c.	允许最小释放电压 电压Vd.c.	线圈电阻 Ω	线圈功耗 W
012	40% ~ 75%	10% ~ 40%	额定电压的130%	额定电压的 5%	45×(1± 10%)	3.5W
<p>其中：</p> <p>1)DC动作电压为额定电压的75% (常温环境) DC Operating voltage is 75% of rated voltage(Room temperature)</p> <p>2)最大可连续电压电压为额定电压的130% (常温环境) MAX. allowable coil voltage is 130% of rated voltage (Room temperature)</p>						
2.2 触点部分/CONTACT SPECIFICATION						
2.2.1 开关类型 Contact Configuration	单刀转换型 1 Form A	GAP:4mm				
2.2.2 触点规格 Contact Rating	1 Form A 200A 850V AC启动 (0.15S) 50A 运行200A分断(0.15S)50A					
2.2.3 接触电阻 Contact Resistance	2 mΩ 以下 , (初期值 , At DC 20A条件下) 2 mΩ Max. @ Initiate, At DC 20A					
2.2.4 吸合时间 Operate Time	30 ms 以下 (额定电压下) 30 ms Max. @ Rated Voltage					
2.2.5 释放时间 Release Time	25 ms以下 (额定电压下) 25 ms Max. @ Rated Voltage , without diode					
2.2.6 最小负载 Minute Rating	100 mA (At 48VDC 300 ops./min. (no load).					
2.2.7 最大电流 Maximum Current	220A Min					

2.3 特性/GENERAL SPECIFICATION

2.3.1	绝缘电阻 Insulation Resistance		500 MΩ以上 (1000VDC) 500 MΩ Min@1000VDC
2.3.2	介质耐压 Dielectric Strength		4500 VAC/分钟(同极接点间) 2500 VAC/分钟(线圈/接点间) 4500 VAC@50/60Hz 1 min.(Between Open Contacts) 2500 VAC@50/60Hz 1 min.(Between Coil and Contacts)
2.3.3	电气寿命 Electrical Life		30000 次以上 (200A/850VAC额定阻性负载条件下) 通断比 : 1s:9s 3000 Cycle Min. @200A AC850V Rate Load NO:OFF=1s:9s
2.3.4	机械寿命 Mechanical Life		5X10 ⁵ 次以上 (无负载) 5X10 ⁵ Cycle Min. @no load
2.3.5	使用环境温度 Temperature		- 40 ~ 70 °C (无凝结时) - 40 ~ 70 °C @no condensation
2.3.6	使用环境湿度 Humidity		45 ~ 85% RH (无 凝 结 时) 45 ~ 85% RH @no condensation
2.3.7	抗振动 Vibration	耐久 Mechanical	10 ~ 50 Hz, 双振幅 1.5mm 10 to 50 Hz, 1.5mm double amplitude
		误动作 Operational	10 ~ 50 Hz, 双振幅1.5mm 10 to 50 Hz, 1.5mm double amplitude
2.3.8	抗冲击 Shock	耐久 Mechanical	980 m/s ² Min 980 m/s ² Min
		误动作 Operational	98 m/s ² Min (约10G) 98 m/s ² Min (10G approximately)
2.3.9	耐寒性 Cold resistance		放置于-40°C±2°C环境温度下240小时,然后在标准条件下放置2小时,结构和性能无异常 No any trouble on construction or characteristic when leave relay in -40°C ±2°C for 240h. After that, leave it in standard condition for 2 hours.
2.3.10	耐热性 Heat resistance		放置于+70°C±2°C环境温度下240小时,然后在标准条件下放置2小时,结构和性能无异常 No any trouble on construction or characteristic when leave relay in +70°C ±2°C for 240h. After that, leave it in standard condition for 2 hours
2.3.11	耐湿性		放置于40°C, 湿度90%环境下240小时,然后在标准条件下放置2小时,绝缘电阻

Moisture resistance 最小10MΩ，结构和性能无异常
After keeping relay for 240h in 40 °C, 90%, then leave it in standard condition for 2 hours. Insulation resistance 10MΩ Min. No any trouble on construction or characteristic

2.4 端子性能/TERMINAL CHARACTERISTICS

- 2.4.1 端子强度
Terminals strength 5N/10秒，任意方向静态压力，无异常，但端子弯曲可以
5N/10s, There shall be no abnormalities.
(The curving of the terminal shall be acceptable)
- 2.4.2 耐热性
Soldering Heat Resistance 5s 260°C或3s 350°C,端子头部3mm浸入锡中，无异常发生
5s@ 260°C or 3s @ 350°C ,There shall be no abnormalities.
(wave soldering)

2.5 标准测试条件/Standard test condition

- 2.5.1 环境温度/Ambient temperature 23°C±5°C
- 2.5.2 相对湿度/Relative humidity 25%~85%
- 2.5.3 气压/Air pressure 86kPa~106kPa
- 2.5.4 测试位置
Direction of Test 端子朝下位置
Terminals down position

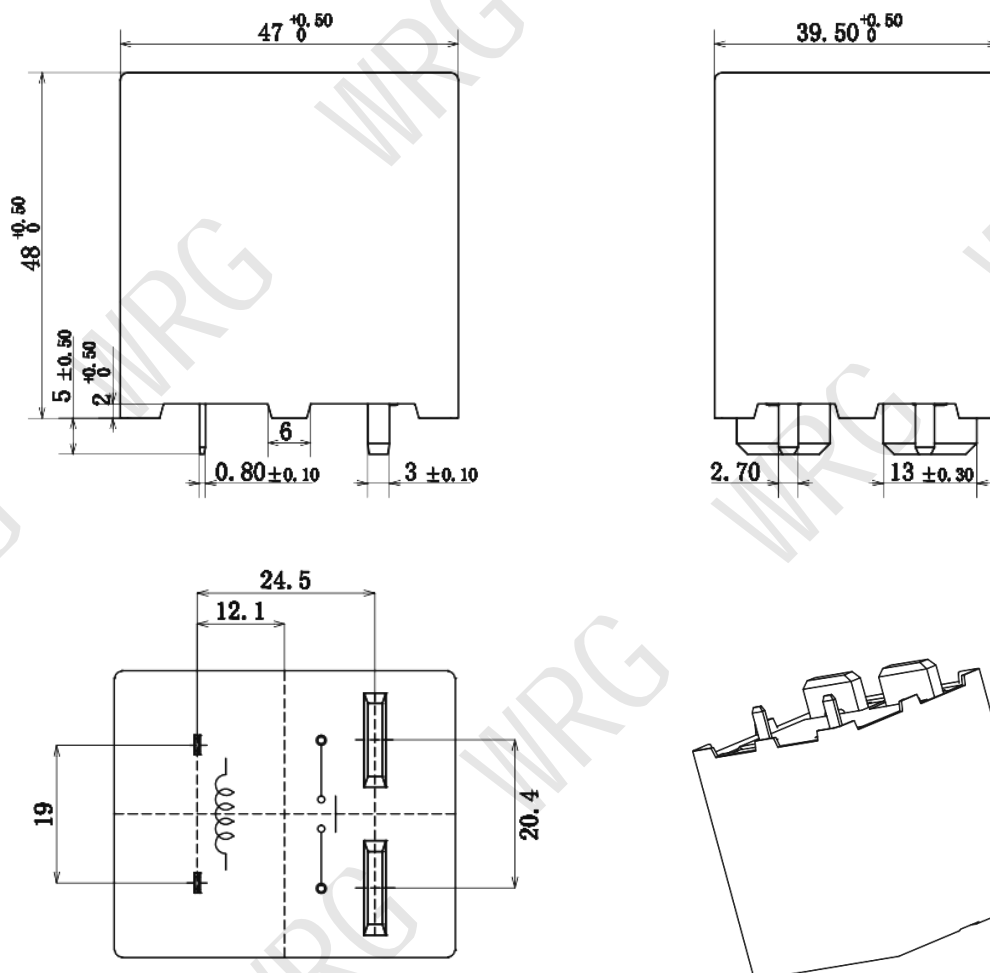
2.6 环境Environment

- 2.6.1 不要储存在诸如硫化氢和盐雾气体等有腐蚀性的环境中。
Store in locations where the product or container is not expose to corrosive gas such as hydrogen sulfide or salty air.
- 2.6.2 储存在没有可视尘埃的环境中。
Store in locations where no visible dust exists.
- 2.6.3 储存在没有直射阳光的环境中。
Store in locations not subject to direct sunlight.

3 订货标记/Ordering Information

RNA	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	- <input type="checkbox"/>	-	<input type="checkbox"/>
①		②	③	④	⑤	⑥		⑦
① 继电器型号			④ 电压形式 D: DC					⑦ 引出形式 P: 焊接式
② 触点组数 1: 1P			⑤ 触点形式 M: 常开型					
③ 电压规格 12: 12V			⑥ 塑封形式 无: 非封透气孔型 S: 封透气孔型					

4 外观尺寸图/Outline dimension



外形尺寸公差表

外形尺寸	公差范围
$\leq 0.1\text{mm}$	$\pm 0.2\text{mm}$
1mm~5mm	$\pm 0.3\text{mm}$
$> 5\text{mm}$	$\pm 0.4\text{mm}$