



PS No.	PS-001-2018-021
Version	00
Date	2018-11-16

# 继电器规格书

## RELAY SPECIFICATION

品名/Product Description      RB-112DF6  
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			
编制	审核	安规会签	批准
王娜	刘桂香	吴金生	钟永荣 (H)



继电器规格书 Relay Specification	型号 Type	RB-112DF6	产品编号 Part Number	
1 <u>零件清单/PARTS LIST</u>				
No.	零件名 Part	材质 MATERIAL	型号/处理方式 TYPE/TREATMENT	UL FILE No. FLAME CLASS
1	骨架 Bobbin	PBT	5010GN6-30 M8X	E53664
2	外壳 Case	PBT	RG301 4130	E171666 E345326
3	基座 Base	PBT	RG301 4130	E171666 E345326
4	推片 Card	LCP PBT	R850 RG301	E171666 E171666
5	铁芯 Core	铁 Steel	镀镍 Nickel Plated	
6	衔铁 Armature	铁 Steel	镀镍 Nickel Plated	
7	挂钩 Hinge	铜合金 Cu Alloy		
8	M接点 M Contact	银合金 Ag Alloy		
9	可动接点 C Contact	银合金 Ag Alloy		
10	B接点 B Contact	银合金 Ag Alloy		
11	B端子 B Terminal	铜合金 Cu Alloy		
12	M端子 M Terminal	铜合金 Cu Alloy		
13	C端子 C Terminal	铜合金 Cu Alloy		
14	可动弹片 S.C.C	铜合金 Cu Alloy		
15	线圈端子 Coil Terminal	铜合金 Cu Alloy	镀锡 Solder Coated	
16	线材 Wire	聚氨酯漆包圆铜线 Polyurethane copper wire	3UEW 155(F Class)	E164502 E234867 E363385
17	胶水 Sealing Resin	环氧树脂 Epoxy		

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<p>2. <u>性能/SPECIFICATIONS</u></p> <p>2.1 <u>驱动部分/COIL SPECIFICATIONS</u></p> <table border="0"> <tr> <td>2.1.1 额定电压</td> <td>12</td> <td>VDC (在20°C时)</td> <td></td> </tr> <tr> <td>Rated Coil Voltage</td> <td>12</td> <td>VDC at 20°C</td> <td></td> </tr> <tr> <td>2.1.2 额定功率</td> <td>0.4</td> <td>W (在20°C时)</td> <td></td> </tr> <tr> <td>Nominal Power</td> <td>0.4</td> <td>W at 20°C</td> <td></td> </tr> <tr> <td>2.1.3 线圈电阻</td> <td>360</td> <td><math>\Omega \pm 10\%</math> (在20°C时)</td> <td></td> </tr> <tr> <td>Coil Resistance</td> <td>360</td> <td><math>\Omega \pm 10\%</math> (at 20°C)</td> <td></td> </tr> <tr> <td>2.1.4 额定电流</td> <td>33.3</td> <td>mA <math>\pm 10\%</math> (在20°C时)</td> <td></td> </tr> <tr> <td>Nominal Current</td> <td>33.3</td> <td>mA <math>\pm 10\%</math> (at 20°C)</td> <td></td> </tr> <tr> <td>2.1.5 吸合电压</td> <td>9</td> <td>VDC以下 (在20°C时)</td> <td></td> </tr> <tr> <td>Operate Voltage</td> <td>9</td> <td>VDC Max. at 20°C</td> <td></td> </tr> <tr> <td>2.1.6 释放电压</td> <td>0.6</td> <td>VDC以上 (在20°C时)</td> <td></td> </tr> <tr> <td>Release Voltage</td> <td>0.6</td> <td>VDC Min. at 20°C</td> <td></td> </tr> <tr> <td>2.1.7 最大连续施加电压</td> <td>15.6</td> <td>VDC Max. 130%额定电压</td> <td></td> </tr> <tr> <td>Max Power</td> <td>15.6</td> <td>VDC Max. 130% of Nominal</td> <td></td> </tr> </table> <p>2.2 <u>开关部/CONTACT SPECIFICATION</u></p> <table border="0"> <tr> <td>2.2.1 开关类型</td> <td colspan="3">单刀转换型</td> </tr> <tr> <td>Contact Configuration</td> <td colspan="3">1 Form C</td> </tr> <tr> <td>2.2.2 接点规格</td> <td>N.O.</td> <td>16</td> <td>A 277VAC (阻性负载)</td> </tr> <tr> <td>Contact Rating</td> <td>N.O.</td> <td>16</td> <td>A @277VAC (Resistive)</td> </tr> <tr> <td></td> <td>N.C.</td> <td>8</td> <td>A 277VAC (阻性负载)</td> </tr> <tr> <td></td> <td>N.C.</td> <td>8</td> <td>A @277VAC (Resistive)</td> </tr> <tr> <td>2.2.3 接触电阻</td> <td colspan="3">100 m<math>\Omega</math> 以下, (初期值, DC 6V/1A条件下)</td> </tr> <tr> <td>Contact Resistance</td> <td colspan="3">100 m<math>\Omega</math> Max. @ Initiate, DC 6V/1A</td> </tr> <tr> <td></td> <td colspan="3">500 m<math>\Omega</math> 以下, (寿命试验后, DC 6V/1A条件下)</td> </tr> <tr> <td></td> <td colspan="3">500 m<math>\Omega</math> Max. @ After Life, DC 6V/1A</td> </tr> <tr> <td>2.2.4 吸合时间</td> <td colspan="3">20 ms 以下 (额定电压下)</td> </tr> <tr> <td>Operate Time</td> <td colspan="3">20 ms Max. @ Rated Voltage</td> </tr> <tr> <td>2.2.5 释放时间</td> <td colspan="3">10 ms 以下 (施加额定电压后断开时)</td> </tr> <tr> <td>Release Time</td> <td colspan="3">10 ms Max. @ Rated Voltage</td> </tr> <tr> <td>2.2.6 最大动作频率</td> <td colspan="3">300 次/分 (无负载)</td> </tr> <tr> <td>Max. Switching Rate</td> <td colspan="3">300 ops./min. (no load).</td> </tr> <tr> <td></td> <td colspan="3">6 次/分 (额定负载)</td> </tr> <tr> <td></td> <td colspan="3">6 ops./min. (Rated load)</td> </tr> </table>				2.1.1 额定电压	12	VDC (在20°C时)		Rated Coil Voltage	12	VDC at 20°C		2.1.2 额定功率	0.4	W (在20°C时)		Nominal Power	0.4	W at 20°C		2.1.3 线圈电阻	360	$\Omega \pm 10\%$ (在20°C时)		Coil Resistance	360	$\Omega \pm 10\%$ (at 20°C)		2.1.4 额定电流	33.3	mA $\pm 10\%$ (在20°C时)		Nominal Current	33.3	mA $\pm 10\%$ (at 20°C)		2.1.5 吸合电压	9	VDC以下 (在20°C时)		Operate Voltage	9	VDC Max. at 20°C		2.1.6 释放电压	0.6	VDC以上 (在20°C时)		Release Voltage	0.6	VDC Min. at 20°C		2.1.7 最大连续施加电压	15.6	VDC Max. 130%额定电压		Max Power	15.6	VDC Max. 130% of Nominal		2.2.1 开关类型	单刀转换型			Contact Configuration	1 Form C			2.2.2 接点规格	N.O.	16	A 277VAC (阻性负载)	Contact Rating	N.O.	16	A @277VAC (Resistive)		N.C.	8	A 277VAC (阻性负载)		N.C.	8	A @277VAC (Resistive)	2.2.3 接触电阻	100 m $\Omega$ 以下, (初期值, DC 6V/1A条件下)			Contact Resistance	100 m $\Omega$ Max. @ Initiate, DC 6V/1A				500 m $\Omega$ 以下, (寿命试验后, DC 6V/1A条件下)				500 m $\Omega$ Max. @ After Life, DC 6V/1A			2.2.4 吸合时间	20 ms 以下 (额定电压下)			Operate Time	20 ms Max. @ Rated Voltage			2.2.5 释放时间	10 ms 以下 (施加额定电压后断开时)			Release Time	10 ms Max. @ Rated Voltage			2.2.6 最大动作频率	300 次/分 (无负载)			Max. Switching Rate	300 ops./min. (no load).				6 次/分 (额定负载)				6 ops./min. (Rated load)			PS No.:
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Relay Specification

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### 2.3 特性/GENERAL SPECIFICATION

2.3.1	绝缘电阻	1000	MΩ以上 (500VDC)
	Insulation Resistance	1000	MΩ Min@500VDC
2.3.2	介质耐压	1000	VAC/分钟(接点间)
	Dielectric Strength	5000	VAC/分钟(线圈/接点间)
		1000	VAC@50/60Hz 1 min.(Between Open Contacts)
		5000	VAC@50/60Hz 1 min.(Between Coil and Contacts)
2.3.3	电气寿命	1X10 <sup>5</sup>	次以上 (额定阻性负载条件下)
	Electrical Life	1X10 <sup>5</sup>	Cycle Min. @ Rate Load.
2.3.4	机械寿命	1X10 <sup>6</sup>	次以上 (无负载)
	Mechanical Life	1X10 <sup>6</sup>	Cycle Min. @no load
2.3.5	使用环境温度	-40~85	℃ (无凝结时)
	Temperature	-40~85	℃ @no condensation
2.3.6	使用环境湿度	20~85%	RH (无凝结时)
	Humidity	20~85%	RH @no condensation
2.3.7	抗振动	耐久	10~55 Hz, 双振幅 1.5mm
	Vibration	Mechanical	10 to 55 Hz, 1.5mm double amplitude
		误动作	10~55 Hz, 双振幅1.5mm
		Operational	10 to 55 Hz, 1.5mm double amplitude
2.3.8	抗冲击	耐久	980 m/s <sup>2</sup> Min (约100G)
	Shock	Mechanical	980 m/s <sup>2</sup> Min (100G approximately)
		误动作	98 m/s <sup>2</sup> Min (约10G)
		Operational	98 m/s <sup>2</sup> Min (10G approximately)
2.3.9	重量	14	克
	Weight	14	g
2.3.10	焊锡条件	5s	@ 260°C (波峰焊)
	Solder ability	5s	@ 260°C (wave soldering)

### 2.4 端子性能/TERMINAL CHARACTERISTICS

2.4.1	端子强度	5牛/10秒, 任意方向静态压力, 无异常, 但端子弯曲可以
	Terminals strength	5N 10s, There shall be no abnormalities. (The curving of the terminal shall be acceptable)
2.4.2	可焊性	260±5°C 5s, 端子头部3mm部分90%以上的面积有锡覆盖
	Terminal solderbility	(无铅焊锡) 260±5°C 5s, In Case of lead free solder, 90% of the dipped portion shall be solderd.
2.4.3	耐热性	10s 260°C或3s 350°C, 端子头部3mm浸入锡中, 无异常发生
	Soldring Heat Resistance	10s @ 260°C or 3s @ 350°C, There shall be no abnormalities. (wave soldering)

继电器规格书  
Relay Specification

型号  
TYPE

RB-112DF6

产品编号  
Part Number

PS No.:

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### 2.5 安全规格/SAFETY REQUIREMENTS

2.5.1 UL规格认定 (UL & C-UL)  
UL (UL & C-UL)

档案号:  
File No.:

E345228



2.5.2 CQC标志认证  
CQC

证书编号:  
Certificate No.:

CQC12002086471

CQC16002139595



2.5.3 TUV规格认定  
TUV

证书号  
Certificate No.

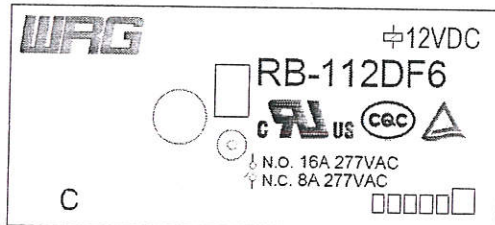
R50249912



2.5.4 产品符合ROHS和REACH要求。

The product meets the requirements of ROHS & REACH.

### 3. 捺印图/Mark Layout



印字方式: 激光印字  
Printing: laser printing.

#### Batch No. Identification:

H □ □ □ □

1、Manufactory:

Blank: Shenzhen; H: Huangshan

2、Year

The last two digits of the year.

3、Week

Production of the current week.

4、Lot No.

(A,B,C,.....Z) OR (AA,BB,CC,.....ZZ)

注:

仅供参考.

For reference only.

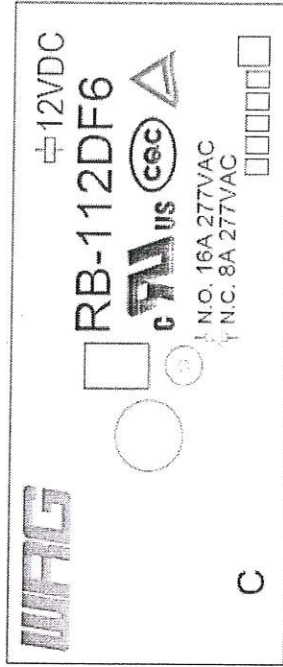
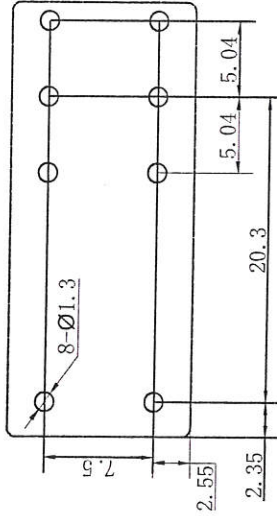
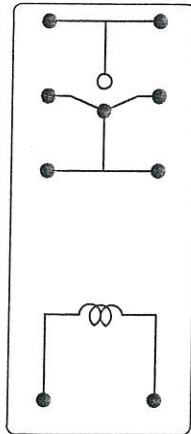
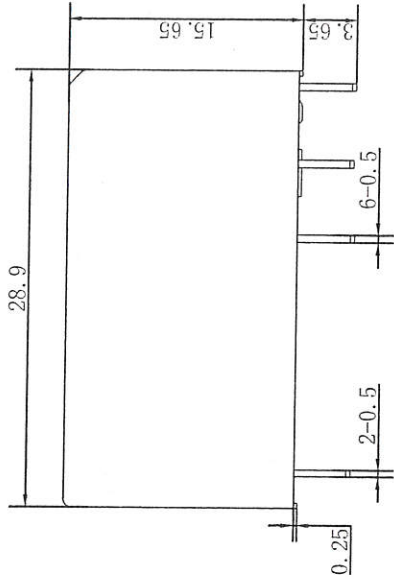
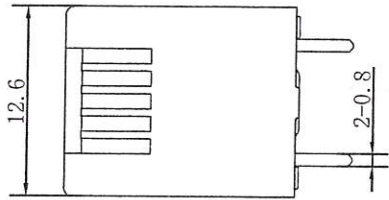
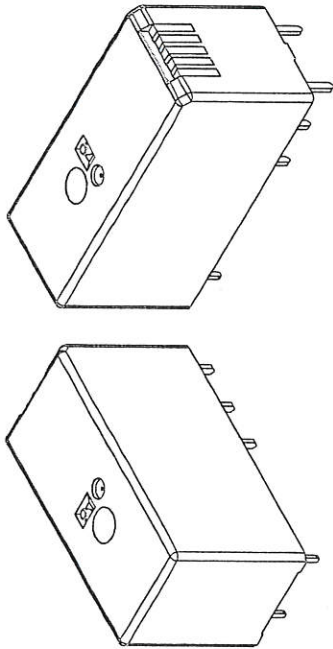
注/Remark

以中文版为准, 英文版仅供参考.

Chinese version is the standard one, English version is only for information.

结束/<END>

U-001-10



型号	RB-1P	首版制图日期	承认	检图	制图
		2018.04.26			胡潇
		作图日期			
		2018.04.26			
<1	±0.2	版本	名称	C型 (5mm)	
1-5	±0.3	V1.0	图号	U-001-10	
>5	±0.4	页数	比例		
		1/1	1:1		

单位: mm

