特 性 FEATURES

- 20A 触点切换能力
- 具有六种触点形式
- 外形尺寸：17.25 × 14.7 × 19.5mm

- 20A switching capability
- 6 kinds of contact arrangement
- Outline dimensions: 17.25 × 14.7 × 19.5mm

触点参数 CONTACT PARAMETERS

触点形式	Contact Arrangement	1A、1B、1C	2A、2B、2C
触点材料	Contact Material	银合金 Silver Alloy	
接触压降（初始）	Voltage Drop(Initial)	NO: 典型值 Typ. 100mV，最大值 Max. 300mV（at 10A）	
		NC: 典型值 Typ. 100mV，最大值 Max. 300mV（at 10A）	
最大连续电流	Max. Continuous Current	NO: 20A NC: 10A NO/NC: 20A/10A	2NO: 2x20A 2NC: 2x7A 2NO/2NC: 2x15A/2x5A
最大切换电压	Max. Switching Voltage	详见允许最大负载范围曲线 See “Load Limit Curve”	
电气寿命	Electrical Life	1×10^5 次 OPS	
机械寿命	Mechanical Life	1×10^6 次 OPS	

性能参数 FUNCTION PARAMETERS

绝缘电阻	Insulation Resistance	100MΩ（500VDC）
介质耐压	Dielectric Strength	触点与线圈间 Between Coil & Contacts: 500VAC 1min
		断开触点间 Between Open Contacts: 500VAC 1min
动作时间	Operate Time	≤10ms
释放时间	Release Time	≤10ms
环境温度	Ambient Temperature	-40℃ ~+85℃
振动	Vibration	10Hz~500Hz，49m/s^2(5G)
冲击	Shock	98m/s^2 (10G)
引出端方式	Terminal Form	印刷电路板引出端 PCB
封装形式	Construction	防焊剂型 Flux Proofed，塑封型 Sealed
重量	Unit Weight	约 Approx.: 12g

线圈规格表 COIL DATA(23℃)

额定电压 Rated Voltage VDC	动作电压 Operate Voltage VDC		释放电压 Release Voltage VDC		线圈电阻 Coil Resistance Ω ± 10%	线圈功率 Coil Power W	允许最大线圈电压 (1) Max Allowable Overdrive Voltage VDC	
	1A、1B、1C、2A、2B	2C	1B、2B	1A、1C 2A、2C			20℃	85℃
6	≤3.75	≤4.5	≥0.35	≥0.7	28	1.1	9.0	6.5
12	≤7.5	≤9.0	≥0.7	≥1.4	130		19.6	14.3
24	≤15	≤18	≥1.4	≥2.8	520		39.3	28.6

注意：(1) 触点无负载电流、线圈电阻为最小值情况下，继电器线圈允许施加的最大连续工作电压。
Note: (1) Max. Allowable overdrive voltage is stated with no load applied minimum coil resistance.

负载参数 LOAD DATA

负载电压 Load Voltage	负载类型 Load Type		触点负载电流 Load Current A				通断比 On/Off Ratio s		电耐久性（次） Electrical Endurance OPS
			1C		1A	1B	接通 On	断开 Off	
			常开 NO	常闭 NC	常开 NO	常闭 NC			
14VDC	阻性 Resistive	接通 Make	15	10	15	10	2	2	2×10^5
		断开 Break	15	10	15	10			
	灯 Lamp	接通 Make / 断开 Break	3x21W	-	3x21W	-	2	2	1.5×10^5
	电机负载 Motor L=0.5mH		26	-	-	-	0.2	2	1×10^5
			26	-	-	-			

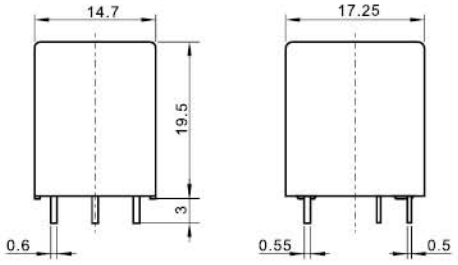
负载电压 Load Voltage	负载类型 Load Type		触点负载电流 Load Current A				通断比 On/Off Ratio s		电耐久性（次） Electrical Endurance OPS
			2C		2A	2B	接通 On	断开 Off	
			常开 NO	常闭 NC	常开 NO	常闭 NC			
14VDC	阻性 Resistive	接通 Make	2x7	2x5	2x7	2x5	2	2	2×10^5
		断开 Break	2x7	2x5	2x7	2x5			
	闪光灯 Flasher	接通 Make / 断开 Break	(4x21W)x2	-	(4x21W)x2	-	2	2	2×10^6
	灯 Lamp	接通 Make / 断开 Break	(2x21W+1x5W)x2	-	(2x21W+1x5W) x2	-	0.2	3	1×10^5

订货标记示例 ORDERING INFORMATION

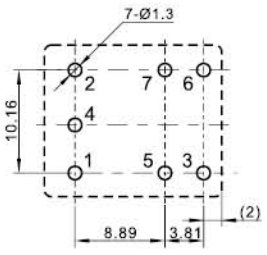
			MAF	-S	-1	12	-C
产品型号	Model:	MAF					
产品结构	Structure:	无 Nil: 防焊剂型 Flux Proofed S: 塑封型 Sealed					
触点组数	Contact Group:	1: 1 组 1 Group 2: 2 组 2 Groups					
线圈电压	Coil Voltage:	06、12、24VDC					
触点形式	Contact Form:	A: 常开 NO B: 常闭 NC C: 转换 NO/NC 2A: 双常开 2NO 2B: 双常闭 2NC 2C: 双转换 2NO/2NC					

外形尺寸、接线图、安装孔尺寸 OUTLINE DIMENSIONS,WIRING DIAGRAM AND PCB LAYOUT(单位 Unit: mm)

外形尺寸 Outline Dimensions

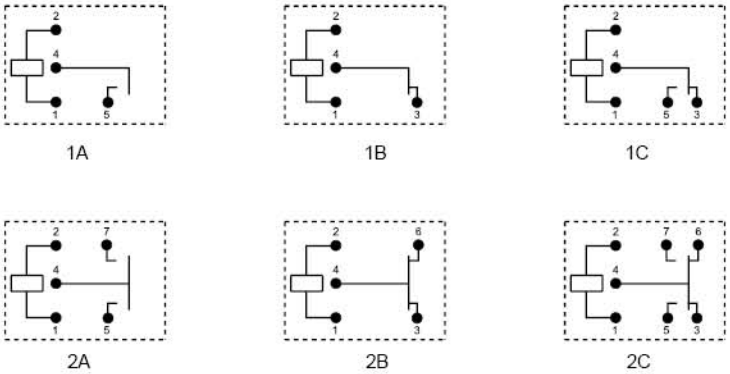


安装孔尺寸 PCB Layout（底视 Bottom View）



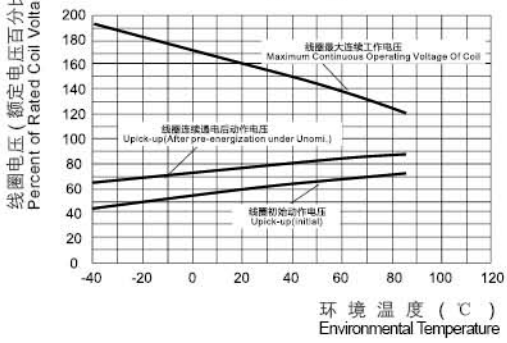
备注:
(1) 产品部分外形尺寸未注尺寸公差，当外形尺寸 ≤1mm，公差为 ±0.2mm；当外形尺寸在 1~5mm 之间时，公差为 ±0.3mm；当外形尺寸＞ 5mm 时，公差为 ±0.4mm;
(2) 安装孔尺寸中未注尺寸公差的均为 ±0.1mm。
REMARK:
(1)In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension ＞ 1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension ＞ 5mm, tolerance should be ±0.4mm;
(2)The tolerance without indicating for PCB layout is always ±0.1mm.

接线图 Wiring Diagram（底视 Bottom View）



性能曲线图 PERFORMANCE CURVE

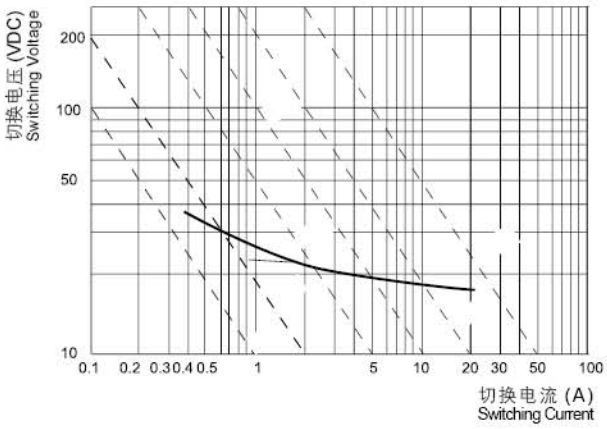
1. 线圈连续通电电压范围
Coil Continuous Voltage Range



说明:
(1) 继电器线圈施加 最大连续工作电压时，触点应没有负载。
(2) 动作电压与线圈预通电电压有关，预通电后检查动作电压，其值会变大
(3) 线圈最大允许温度为 180℃，考虑到电阻法所测量的线圈温升是平均值，推荐在不同使用环境、不同线圈电压、不同负载条件下测量时，线圈温度应小于 155℃。
(4) 当线圈实际工作电压超出曲线规定范围时，请联系美硕并提供相应详细使用条件。

(1) There should be no contact load applied when maximum continuos operation voltage is applied on coil.
(2) The operating voltage is connected with coil pre-energized time and voltage.After pre-energized,the operating voltage will increase.
(3) The maximum allowable coil temperature is 180℃ .For the coil temperature rise which is measured by resistance is average value,we recommend the coil temperature should be below 155℃ under the different application ambient,different coil voltage and different load etc.
(4) If the actual operating coil voltage is out of the specified range please contact meishuo for further details.

2. 允许最大负载范围
Maximum Load Range



说明:
产品按接触点参数表进行负载与耐久性试验，当实际使用的负载电压、电流、动作频率任一项与触点参数表不同时，请重新进行确认试验。

The load and electricl enduance tests are made according to "CONTACT DATA" paremeters' table. If actual load voltage, current, or operate frequency is different from "CONTACT DATA" table, please arrange corresponding tests for confirmation.

声明 STATEMENT:
本产品规格书仅供客户使用时参考，若有更改，恕不另行通知。
客户应根据具体的使用条件选择与之相匹配的产品。若有疑问，请与美硕联系获取更多的技术支持，但产品选型责任由客户承担。
This product specification is for reference only to customers, subject to change without notice.
The customer should select the matching product according to the use condition. Any questions, please feel free contact us to get more technical support. However, product selection responsibility only by the customer.

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