特性 FEATURES

- 40A&60A 触点切换能力
- 具有三种触点形式
- 防尘罩和塑封型可供选择
- 外形尺寸：26 × 26 × 25mm

- 40A&60A Switching capability
- 3 kinds of contact arrangement available
- Dust protected Type And Sealed Type Available
- Outline dimensions: 26 × 26 × 25mm

触点参数 CONTACT PARAMETERS

触点形式	Contact Arrangement	1A、1B、1C、2A
触点材料	Contact Material	银合金 Silver Alloy
接触压降（初始）	Voltage Drop(Initial)	典型值 Typ. 20mV，最大值 Max. 250mV（at 10A）
最大连续电流	Max. Continuous Current	NO/NC:40A/30A; NO/NC:60A/45A
最大切换电压	Max. Switching Voltage	80VDC
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	≤5ms
环境温度	Ambient Temperature	-40℃ ~+105℃
振动	Vibration	10Hz~500Hz，$49m/s^2$(5G)
冲击	Shock	稳定性 Functional: $98m/s^2$ (10G); 强度 Destructive: $196m/s^2$ (20G)
引出端方式	Terminal Form	快速接式引出端 QC
封装形式	Construction	防尘罩型 Dust Protected，塑封型 Sealed
重量	Unit Weight	约 Approx. 33
机械性能	Mechanical Data	外壳保持力：（拉和压）200N Cover Retention:（Pull & Push）200N
		引出脚保持力：（拉和压）100N Terminal Retention:（Pull & Push）100N
		引出脚抗弯曲力：（各方向）10N Terminal Resistance To Bending:（Front & Side）10N

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	并联电阻 Parallel Resistance Ω ± 10%	等效电阻 Equivalent Resistance Ω ± 10%	允许最大线圈电压 (1) Max Allowable Overdrive Voltage VDC	
							23℃	85℃
6	≤4.2	≥0.6	22	约 Approx.1.7	-	-	10.1	7.9
6	≤4.2	≥0.6	22	约 Approx.1.9	180	20	10.1	7.9
12	≤8.4	≥1.2	85	约 Approx.1.7	-	-	20.2	15.7
12	≤8.4	≥1.2	85	约 Approx.1.9	680	75.5	20.2	15.7
24	≤16.8	≥2.4	340	约 Approx.1.7	-	-	39.5	31.5
24	≤16.8	≥2.4	340	约 Approx.1.9	2700	302	39.5	31.5
24	≤16.8	≥2.4	255	约 Approx.2.3	-	-	39.5	31.5

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 1C 常开 NO	1C 常闭 NC	1A 常开 NO	通断比 On/Off Ratio s 接通 On	断开 Off	电耐久性 (次) Electrical Endurance OPS	试验环境温度 Ambient Temp.
14VDC	阻性 Resistive	接通 Make	40	30	40	2	2	1×10^5	详见电耐久性实验环境温度曲线 See Ambient Temp. Curve
		断开 Break	40	30	40				
	感性 Inductive	接通 Make	150	-	150	2	2		
		断开 Break	30	-	30				
	灯 Lamp	接通 Make	80	-	80	2	2		
		断开 Break	30	-	30				
27VDC	阻性 Resistive	接通 Make	20	10	20	2	2		At 23℃
		断开 Break	20	0	20				

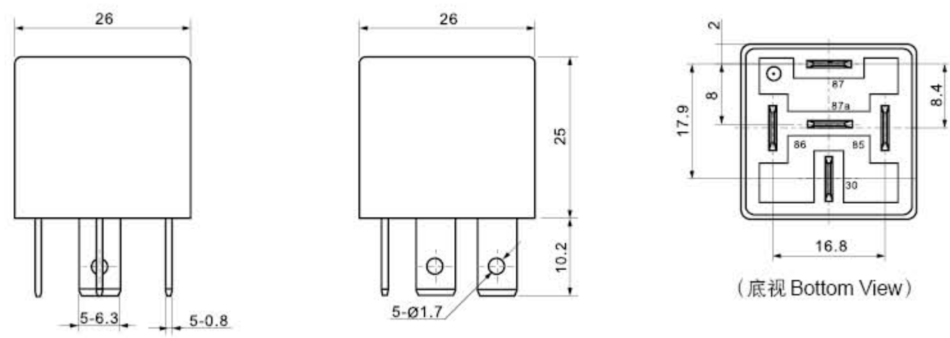
订货标记示例 ORDERING INFORMATION

MAH3 -S -1 12 -C -1 R

产品型号	Model:	MAH3
产品结构	Structure:	1: 防尘罩型 Dust Protected 2: 塑封型 Sealed
触点组数	Contact Group:	1: 1 组 1 Group
线圈电压	Coil Voltage:	12: 12VDC 24: 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
结构型式	Version:	1: 光背快速接引出端 Cover Without Bracket 2: PCB 引出端 PCB layout 3: 铁背快速接引出端 Cover With Metal Bracket 4: 塑背快速接引出端 Cover With Plastic Bracket
线圈并联电阻	Coil Derived Resistance:	无 Nil: 无并联元件: No: Components D1: 并联二极管 (阳极接 86# 脚)With Parallel Diode (anode connection pin # 86) D2: 并联二极管 (阳极接 85# 脚)With Parallel Diode (anode connection pin # 85) R: 并联电阻 With Resistor

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

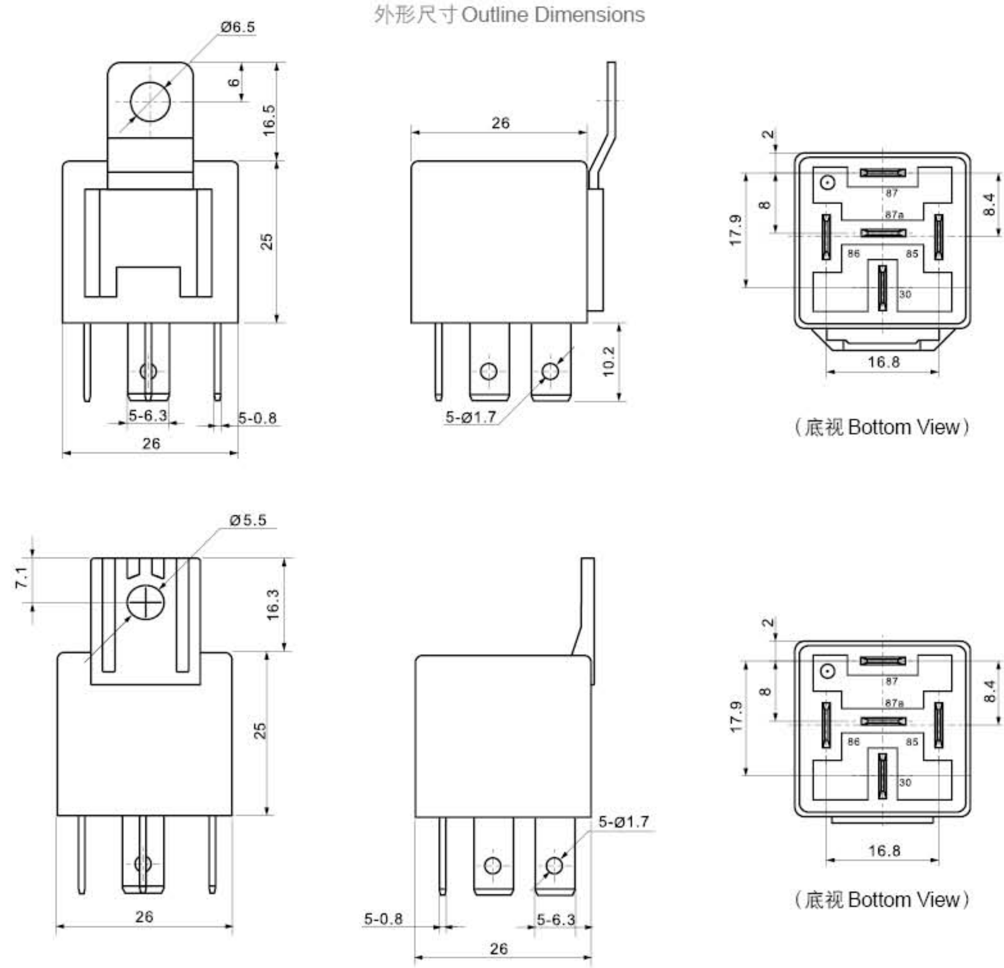
外形尺寸 Outline Dimensions



(底视 Bottom View)

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

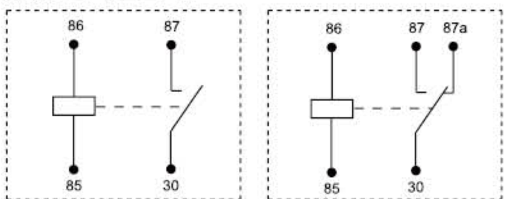
外形尺寸 Outline Dimensions



备注:
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；
REMARK:
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;

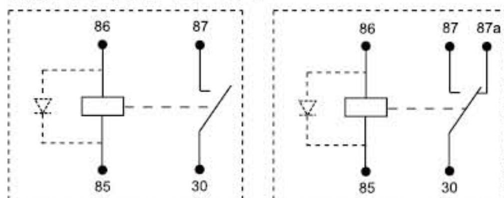
接线图 Wiring Diagram（底视 Bottom View）

MAH3- □ -1 □□ - □



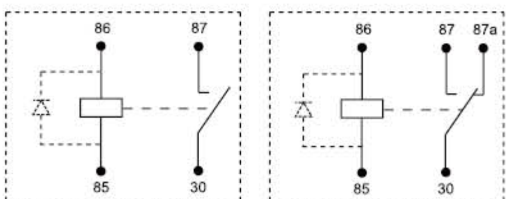
1A　　1C

MAH3- □ -1 □□ - □ - □ D1



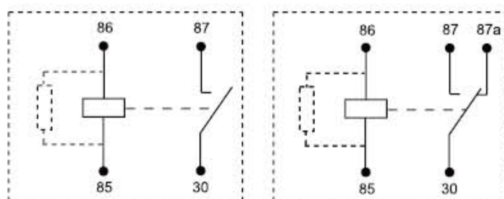
1A　　1C

MAH3- □ -1 □□ - □ - □ D2



1A　　1C

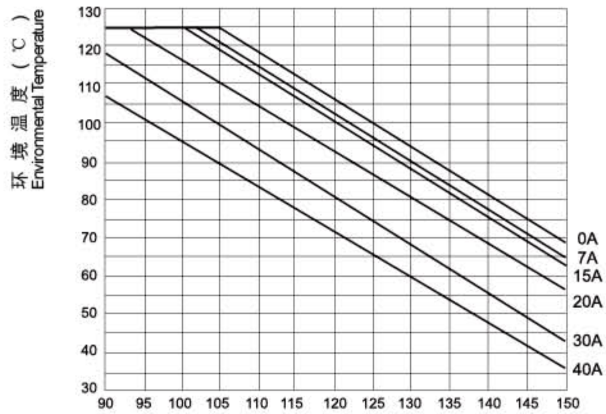
MAH3- □□ -1 □□ - □ - □ R



1A　　1C

性能曲线图 PERFORMANCE CURVE

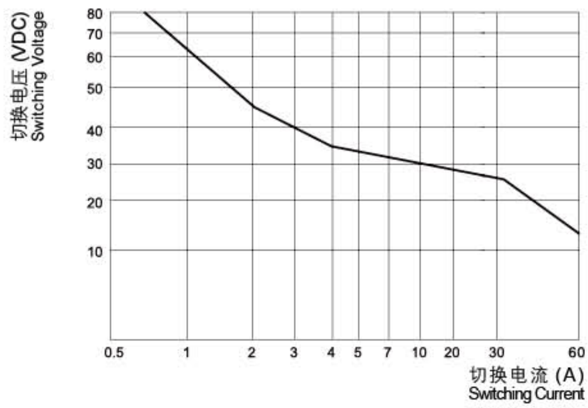
1. 线圈连续通电电压范围
Coil Continuous Voltage Range



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 170℃。
(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 170℃ 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.

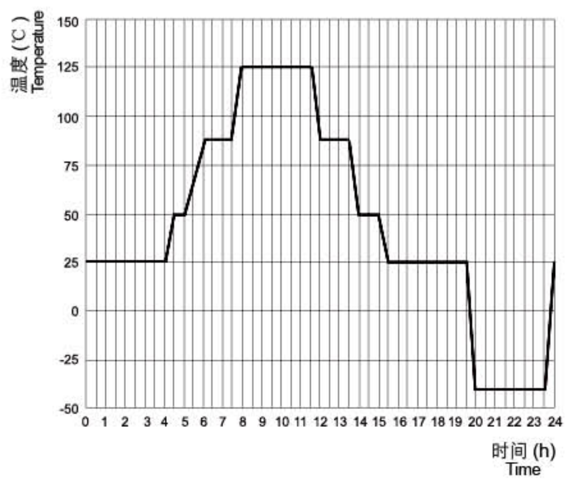
2. 允许最大负载范围
Maximum Load Range



说明:
(1) 本图以常开触点为例，本图电流为阻性。
(2) 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。

(1) This chart takes NO contact, Resistive load as example.
(2) 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.

3. 电耐久试验环境温度曲线
Ambient Temperature Curve of the Electrical Endurance Test



说明:
(1) 最低温度为 -40℃
(2) 最高温度为 125℃

(1) The minimum teperature is -40℃ .
(2) The maximum temperature is 125℃