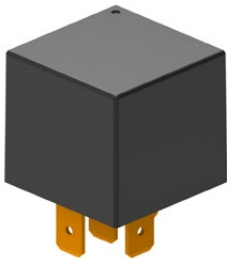


汽车应用
Automotive Applications

- 40A，60A 触点切换能力
- 多种安装方式
- 外形尺寸 L×W×H: 27.8×27.8×25.1mm
- 40A，60A switching capability
- 4 Kinds of Contact Form available
- Various mounting terminations available
- Dust protected type and sealed type available
- Profile Dimension L×W×H: 27.8×27.8×25.1mm
- 具有四种触点形式
- 防尘罩和塑封型可供选择



MAH	S	1	12	C	1	R
产品型号 Model	产品结构 Structure	触点组数 Number of Poles	线圈电压 Coil Voltage	触点形式 Contact Form	结构形式 Version	线圈并联元件 Parallel Coil Components
	S: 塑封型 无: 防尘罩型 S: Wash tight Nil: Dust Protected	1: 1组 1 Pole	12: 12VDC 24: 24VDC	A: 常开 NO B: 常闭 NC C: 转换 NO/NC 2A: 双常开 2NO	1: 光背快速接引出端 Cover Without Bracket 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	R: 并联电阻 With Resistor 无: 无并联元件 Nil: 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)

触点参数 CONTACT PARAMETERS

触点形式 Contact Form	1a, 1b, 1c	2a
触点材料 Contact Material	银合金 Silver Alloy	
接触压降 Voltage Drop(初始 Initial)	NO: 典型值 Type.40mV, 最大值 Max.300 mV	
	NC: 典型值 Type.40mV, 最大值 Max.300 mV	
最大连续电流 Max.Continuous Current	NO/NC:40A/30A	NO/NC: 60A/45A
电气寿命 Electrical Life	见附表 1 See attached list 1	
机械寿命 Mechanical Life	1×10 ⁶ 次 OPS	

性能参数 CHARACTERISTICS

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℃ ~+125℃	
振 动 Vibration	10Hz~500Hz, 49m/s2(5G)	
冲 击 Shock	功能性的 Functional	98m/s ² (10G)
	破坏性的 Destructive	196m/s ² (20G)
引出端形式 Termination	快速接式引出端 QC	
封装形式 Construction	防尘罩型 Dust Protected, 塑封型 Wash tight	
重 量 Unit Weight	约 Approx.: 35g	
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	
							20℃	85℃
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		
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		
24	≤ 16.8	≥ 2.4	255	约 Approx.2.3	-	-		

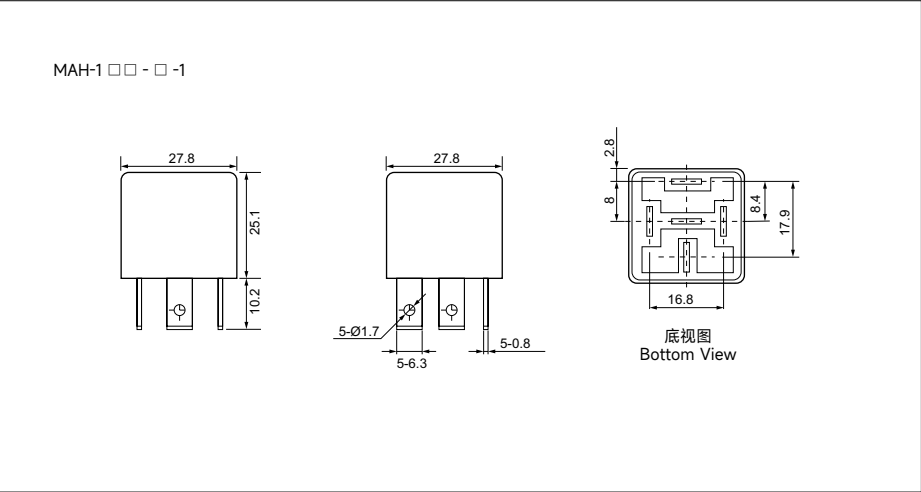
注意：(1) 触点无负载电流，线圈电阻为最小值情况下，继电器线圈允许施加的最大连续工作电压。
Be careful:(1)Max.Allowable overdrive voltage is stated with no load applied minimum coil resistance.

附表 1 ATTACHED LIST 1

负载电压 Load Voltage	负载类型 Load Type		负载电流 A Load Current			通断比 s On/Off Ratio		电耐久性 (次 OPS) Electrical Endurance	试验环境 温度 Ambient Temp.
			1C		1A	接通 On	断开 Off		
			常开 NO	常闭 NC	常开 NO				
14VDC	阻性 Resistive	接 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 Break	40	30	40	2	2		
	感性 Inductive	接 Make	150	-	150	2	2		
		断 Break	30	-	30	2	2		
	灯 Lamp	接 Make	80	-	80	2	2		
		断 Break	33	-	33	2	2		
28VDC	阻性 Resistive	接 Make	30	20	30	2	2		At 23°C
		断 Break	30	20	30	2	2		

外形尺寸 PROFILE DIMENSION

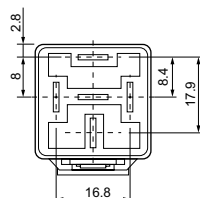
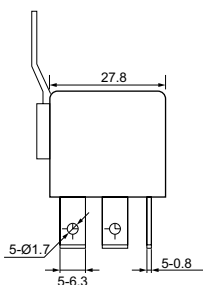
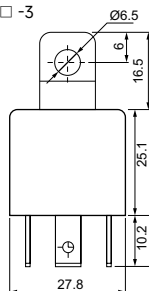
单位 Unit: mm



外形尺寸 PROFILE DIMENSION

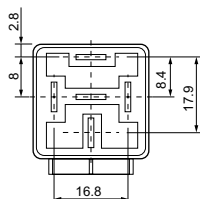
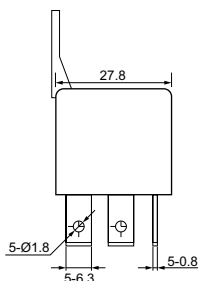
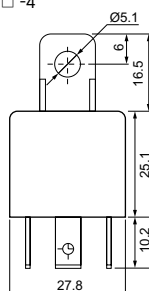
单位 Unit: mm

MAH-1 □ □ - □ -3



底视图
Bottom View

MAH-1 □ □ - □ -4



底视图
Bottom View

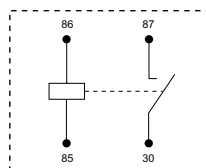
备注: (1) 产品部分外形尺寸未注尺寸公差, 当外形尺寸 $\leq 1\text{mm}$, 公差为 $\pm 0.2\text{mm}$;
当外形尺寸在 $1\sim 5\text{mm}$ 之间时, 公差为 $\pm 0.3\text{mm}$; 当外形尺寸 $> 5\text{mm}$ 时, 公差为 $\pm 0.4\text{mm}$;
(2) 安装孔尺寸中未注尺寸公差的均为 $\pm 0.1\text{mm}$ 。

REMARK:

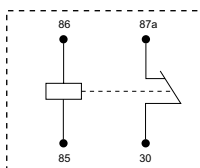
(1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$;
(2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

接线图 (底视图) WIRING DIAGRAM (BOTTOM VIEW)

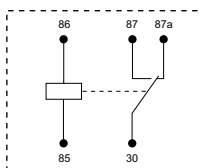
MAH- □ -1 □ □ - □



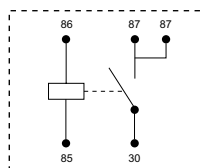
1A



1B

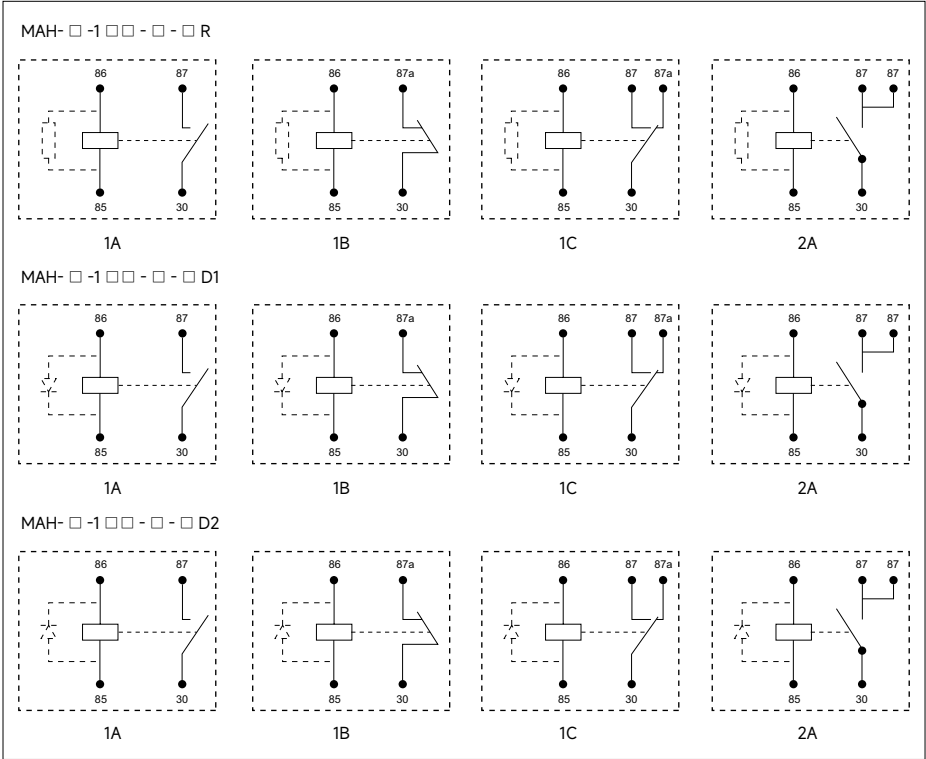


1C

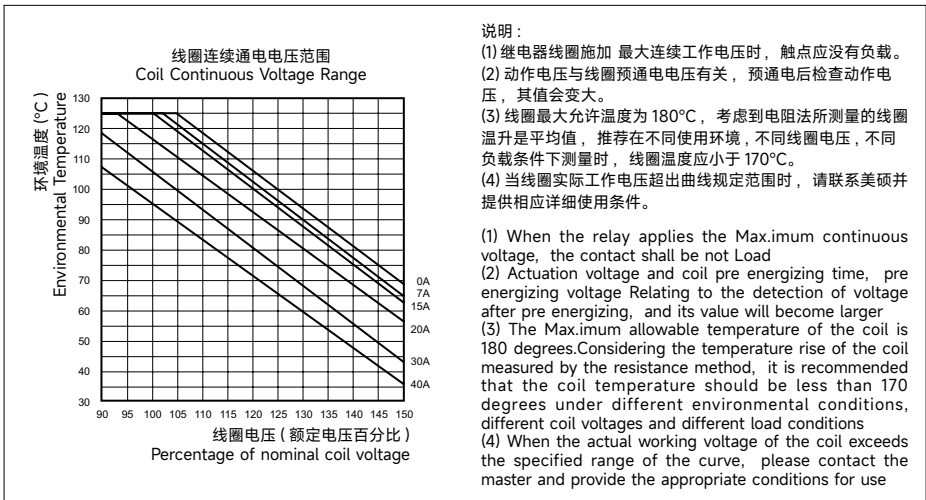


2A

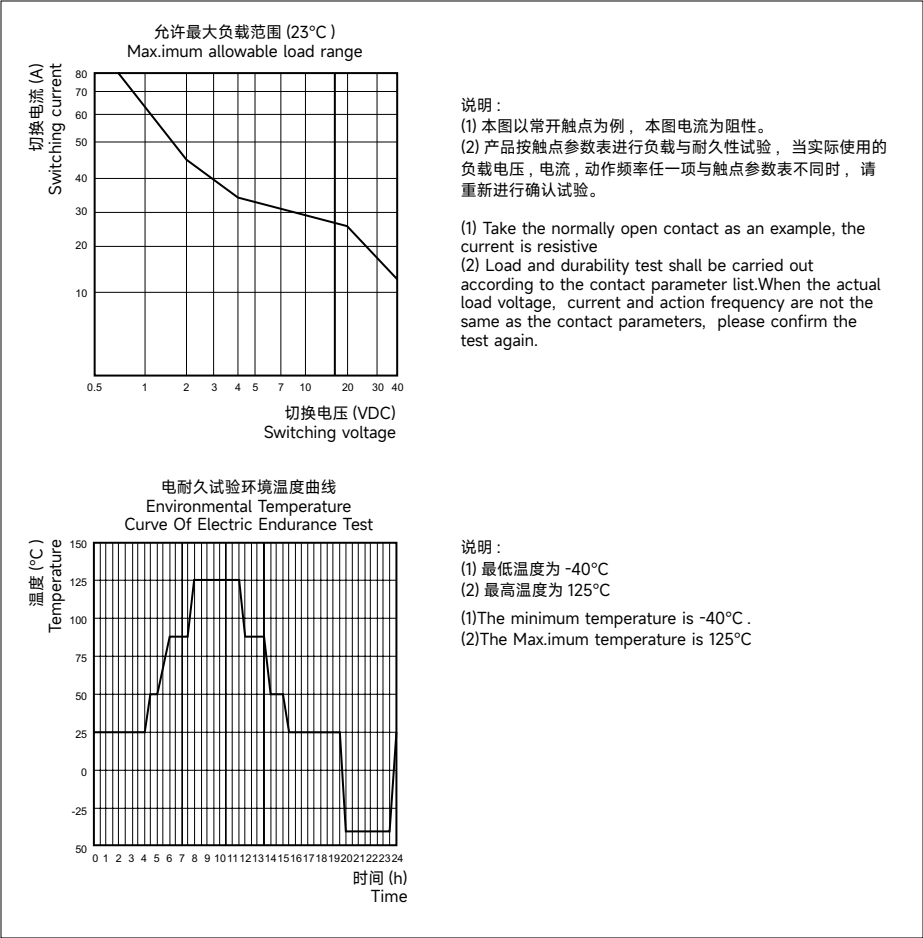
接线图 (底视图) WIRING DIAGRAM (BOTTOM VIEW)



性能曲线图 PERFORMANCE CURVE



性能曲线图 PERFORMANCE CURVE



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继电器综合样本

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