

- 70A 触点切换能力
- 工作温度高达 125℃
- 一组常开触点形式
- 防尘罩和塑封型可供选择
- 可带瞬态抑制电阻
- 外形尺寸 L × W × H: 26 × 26 × 25mm

- 70A Switching capability
- Ambient temp.can up to 125℃
- 1 Form A contact arrangement
- Dust protected type And sealed type available
- With transient suppression resistor
- Outline dimensions L × W × H: 26 × 26 × 25mm

	MAB	-	S	-	1	-	12	-	A	-	1		Y		R
产品型号 Model	产品结构 Structure	触点组数 Contact Group	线圈电压 Coil Voltage	触点形式 Contact Form	结构形式 Version	引出脚形式 Terminal	线圈并联元件 Parallel Coil Components								
	S: 塑封型 无: 防尘罩型 S: Sealed Nil: Dust Protected	1: 1 组 1: 1Group	06: 6VDC 12: 12VDC 24: 24VDC	A: 常开 A: NO	1: 光背快连接引出端 2: PCB 引出端 3: 金属安装架, 快速 接引出端 4: 塑料安装架, 快速 接引出端 1: QC Terminal 2: PCB layout 3: Plastic Bracket QC Terminal 4: Metal Bracket QC terminal	Y: QC 引出脚不带闭锁 孔, 30 和 87 引出脚长 度为 14.5mm 无: QC 引出脚带闭锁 孔, 30 和 87 引出脚长 度为 14.5mm 或 PCB 型 Y: QC Terminal without hole and 30 & 87 terminal length is 14.5mm Nil: QC Terminal with hole and 30 & 87 terminal length is 14.5mm. or PCB Type	无: 不带瞬态抑制 电阻 R: 并联电阻 D1: 并联二极管 (阳 极接 #86) D2: 并联二极管 (阳 极接 #85) Nil: Without Resistor R: With Resistor D1: With Parallel Diode (Anode on 86) D2: With Parallel Diode (Anode on 85)								

触点参数 Contact Parameters

触点形式 Contact Arrangement	1A
触点材料 Contact Material	银合金 Silver Alloy
接触压降 Voltage Drop (初始 Initial)	典型值 Typ.20mV, 最大值 Max.300mV
最大连续电流 Max.Continuous Current	70A(23℃)
	50A(85℃)
	30A(125℃)
最大切换电压 Max.Switching Voltage	50VDC
电气寿命 Electrical Life	见附表 1 See schedule 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/s ² (5G)
冲击 Shock	294m/s ² (30G)
引出端方式 Terminal Form	快速接式引出端 QC, 印刷电路板引出端 PCB
封装形式 Construction	防尘罩型 Dust Protected, 塑封型 Sealed
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 $\Omega \pm 10\%$	线圈功率 Coil Power W	并联电阻 Parallel Resistance $\Omega \pm 10\%$	等效电阻 Equivalent Resistance $\Omega \pm 10\%$	允许最大线圈电压 (1) Max.Allowable Overdrive Voltage VDC	
							20℃	85℃
6	≤4.2	≥0.6	22.5	1.6	-	-	10.1	7.8
6	≤4.2	≥0.6	22.5	1.8	180	20	10.1	7.8
12	≤8.4	≥1.2	90	1.6	-	-	20.2	15.7
12	≤8.4	≥1.2	90	1.8	680	79.5	20.2	15.7
24	≤16.8	≥2.4	360	1.6	-	-	40.5	31.5
24	≤16.8	≥2.4	360	1.8	2700	317.6	40.5	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。

Be careful:(1)Max.Allowable overdrive voltage is stated with no load applied minimum coil resistance.

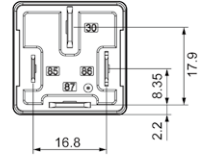
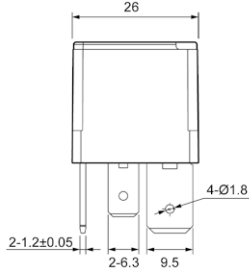
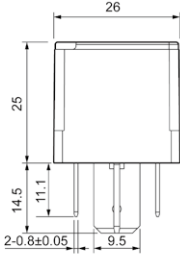
附表 1 Schedule 1

负载电压 Load Voltage	负载类型 Load Type		触点负载电流 A Load Current	通断比 s On/Off Ratio		电耐久性 Electrical Endurance (次 OPS)	试验环境 温度 Ambient Temp
				接通 On	断开 Off		
14VDC	阻性 Resistive	接通 Make	70	2	2	1×10^5	At 23℃
		断开 Break	70				
	感性 Inductive	接通 Make	150	2	4		详见电耐久性 实验环境温度曲线 See Ambient Temp.Curve
		断开 Break	50				
	灯 Lamp	接通 Make	200	0.5	10		
		断开 Break	40				
28VDC	阻性 Resistive	接通 Make	40	2	2	At 23℃	
		断开 Break	40				

外形尺寸 Outline Dimensions/ 安装孔尺寸 (底视图) PCB Layout (Bottom View)

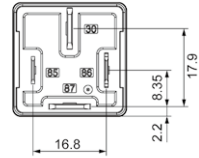
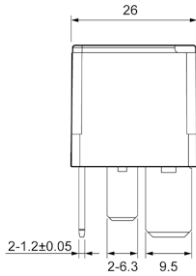
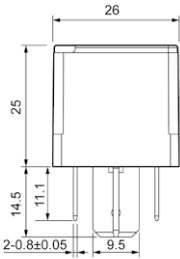
单位 Unit: mm

MAB-□-1□□-A-1□



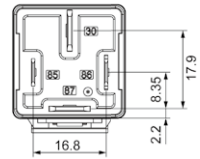
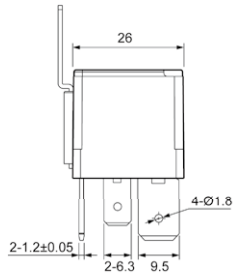
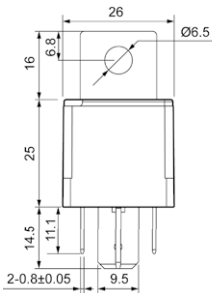
底视图
Bottom View

MAB-□-1□□-A-1Y□



底视图
Bottom View

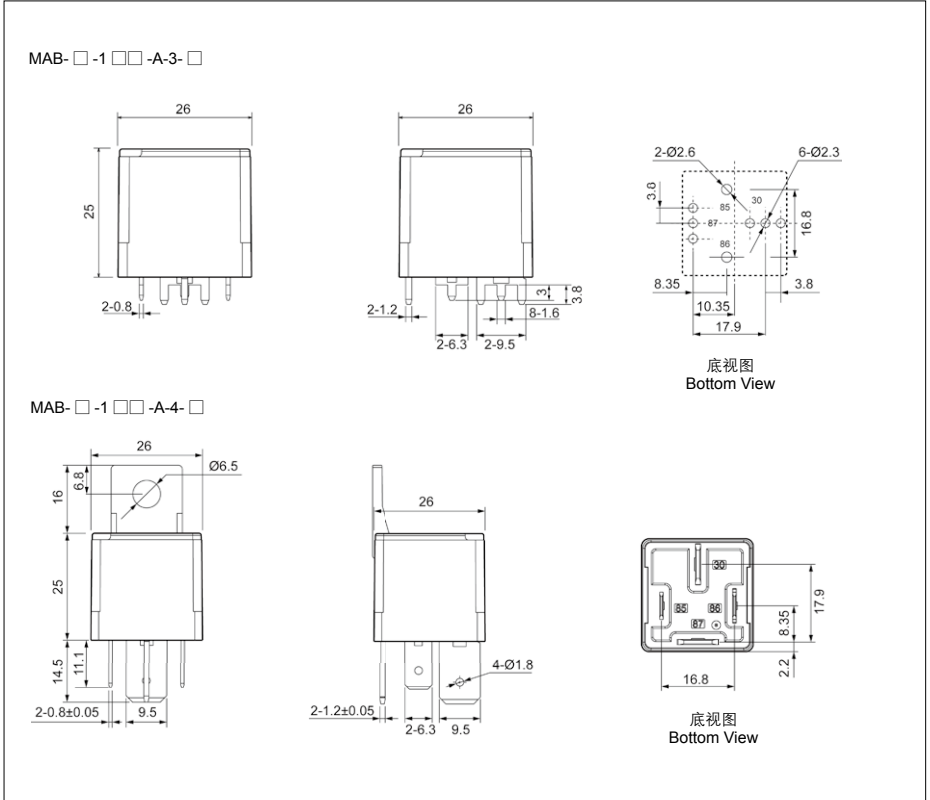
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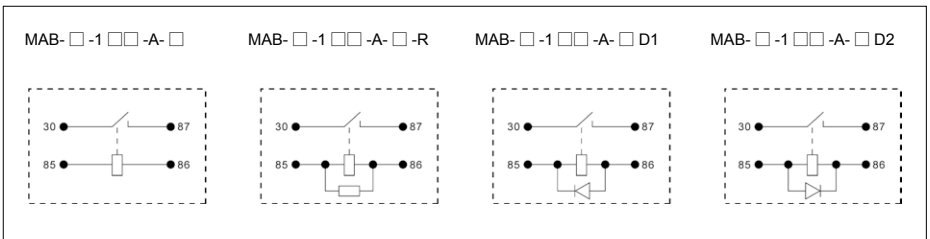
底视图
Bottom View

外形尺寸 Outline Dimensions

单位 Unit: mm



接线图 Wiring Diagram



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 $\pm 0.1\text{mm}$.

性能曲线图 Performance Curve

