

汽车应用
Automotive Applications

- 结构紧凑，重量轻
- 85°C时额定电流可达 20A
- 较高的耐热能力
- 外形尺寸 L×W×H: 15.25×12.25×13.6mm
- Small size, light weight
- Switching capacity up to 20A(At 85°C)
- High heat resistance
- Profile Dimension L×W×H: 15.25×12.25×13.6mm



MAD - S - 1 12 - C

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
	S: 塑封型 Wash tight	1: 1组 1 Pole	06, 09, 12, 18, 24 VDC	A: 常开 NO B: 常闭 NC C: 转换 NO/NC

触点参数 CONTACT PARAMETERS

触点形式 Contact Form	1a, 1b, 1c
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.100mV 最大值 Max.300mV NC: 典型值 Type.100mV 最大值 Max.300mV
额定负载 Rated Load	NO: 20A 14VDC NC: 15A 14VDC
最大连续电流 Max.Continuous Current	NO: 20A NC: 15A
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 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	≤ 5ms
环境温度 Ambient Temperature	-40°C ~+85°C
振 动 Vibration	10Hz-500Hz, 49m/s2(5G)
冲 击 Shock	98m/s ² (10G)
引出端形式 Termination	印刷电路板引出端 PCB
封装形式 Construction	塑封型 Wash tight
重 量 Unit Weight	约 Approx.6g

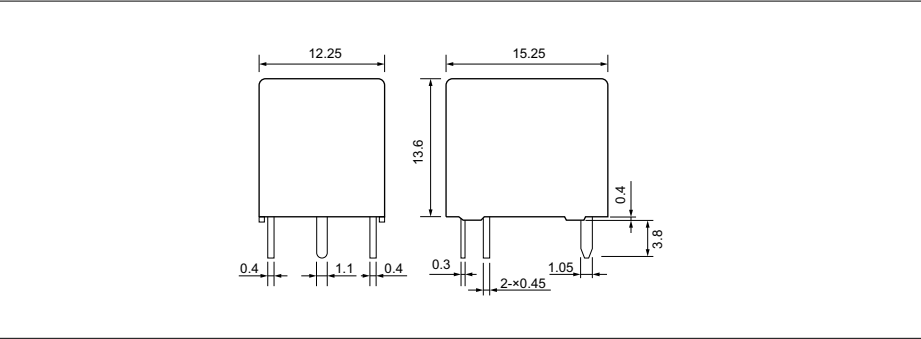
线圈规格表 COIL DATA(23℃)

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	允许最大线圈电压 (1) Max.Allowable Overdrive Voltage VDC	
					20℃	85℃
6	≤ 3.6	≥ 0.5	60	约 Approx.0.6	9.7	7.3
9	≤ 5.4	≥ 0.7	135		12.1	8.6
12	≤ 7.3	≥ 1	240		15.6	13.8
18	≤ 10.8	≥ 1.5	540		21.6	19
6	≤ 3.6	≥ 0.5	45	约 Approx.0.8	9.2	7.9
9	≤ 5.4	≥ 0.7	100		11.8	9
12	≤ 7.3	≥ 1	180		16.8	11.8
18	≤ 10.8	≥ 1.6	405		22.3	19.3
24	≤ 14.4	≥ 2.2	720		28.2	23.6

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

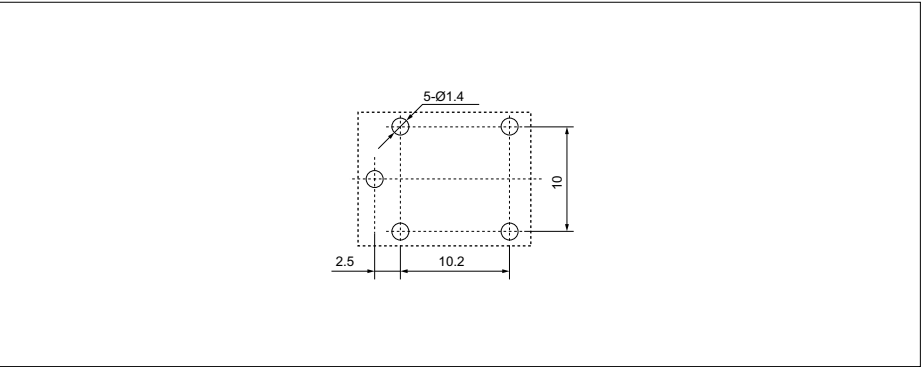
外形尺寸 PROFILE DIMENSION

单位 Unit: mm

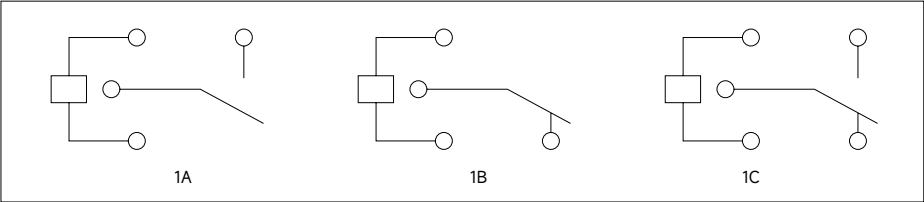


安装孔尺寸 (底视图) PCB LAYOUT (BOTTOM VIEW)

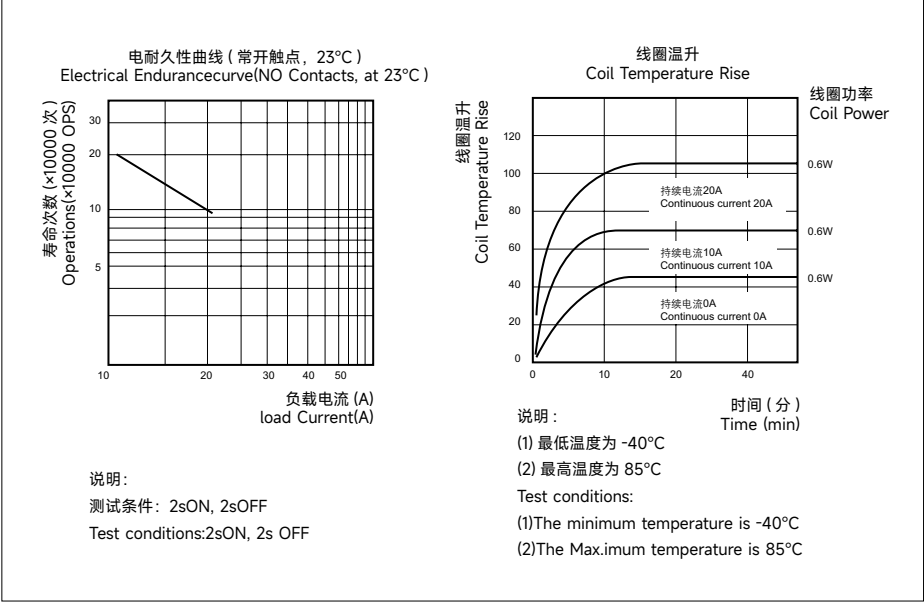
单位 Unit: mm



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



性能曲线图 PERFORMANCE CURVE



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All items are subject to the actual products.



继电器综合样本

RELAYS COMPONENTS



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