

Product Specification Sheet

制图

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2026.2

审核

董兴周
26.2.28

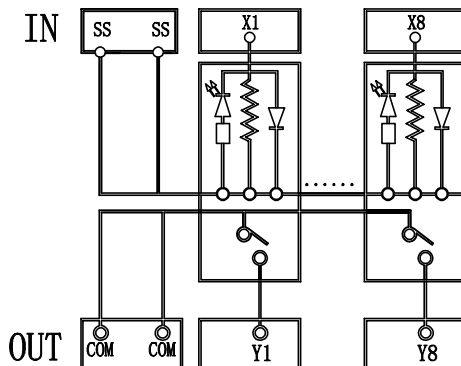
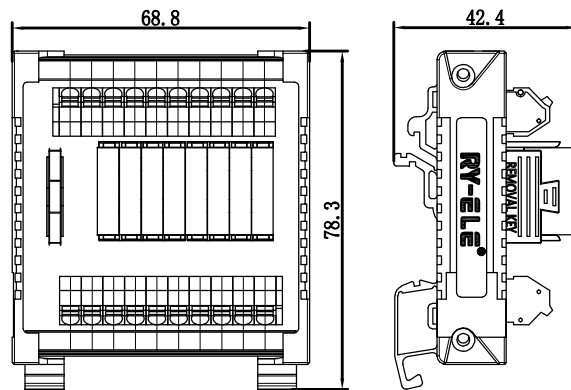
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批准

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内部接线原理图

Internal wiring principle



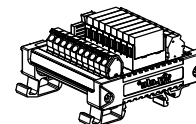
变更说明 Change description	更改人 Change person	更改日期 Change date	备注 Remark
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性能参数 (电气性能 1.1)	
Performance Parameters (Index 1.1)	
触点结构 Contact structure	1A
触点形状 Contact shape	直线型 Straight contact
接触电压 (初始) Contact resistance (initial)	30mΩ 以下 (8V DC 1A 电压下测试) 30 mΩ or less (at 8 V DC 1 A voltage down test)
触点材料 Contact material	AgPd type-80
触点寿命 (电气寿命) Contact service life (electrical life)	5A 250VAC, 5A 30VDC
额定最大开断电流 Rated maximum breaking current	1,500V _{AC} , 150W
额定最大分断电压 Rated maximum voltage of breaking	250VAC, 110VDC (0.5 A)
额定最大分断功率 Rated maximum breaking power	5A (CA, DC)
最小插入电流 Minimum applicable load	100 pA ~ 100mWDC
绝缘电阻 (初始) Insulation resistance (initial)	1,000 MΩ 以上 1,000 MΩ or more (at 50 °C)
耐电压: 绝缘通 Withstand voltage on terminal to the housing	1,000 V AC 1 分钟 (绝缘电阻: 10 MΩ) 1000 V AC 1 minute (insulation current: 10 mA)
耐电压: 触点之间 Withstand voltage between contacts	3,000 V AC 1 分钟 (绝缘电阻: 10 MΩ) 3000 V AC 1 minute (insulation current: 10 mA)
耐电压: 触点与端子间 Withstand voltage between contact and terminal	5,000 V
动作时间 Acting time	线圈额定电压 10 V 以下 (不含线圈电阻) Coil rated voltage below 10 V on inductive contact (bypass)
反应时间 Reaction time	线圈额定电压 5 mm 以下 (不含触点弹离、无二微秒) Coil rated voltage below 5 mm on inductive contact (bypass and no stick)
机械寿命 (初始) Mechanical lifespan (initial)	10 ~ 55 次 (双向线圈) 10 ~ 55 bidirectional (electromagnetic: 1.8 mm)
使用寿命 Service life	2,000 万次, 开关闭合 180 次 / 分 20000000 times, 180 times / min (on)
使用环境温度 Ambient temperatures for use	-40°C ~ +85°C (全寿命使用温度: -40°C ~ +85°C) -40 °C ~ +85 °C (over product's mounting time: -40 °C ~ +85 °C)
使用环境湿度 Ambient humidity for use	5% RH ~ 95% RH (无凝露、潮湿) 5% RH ~ 95% RH (no condensation, humid) 5%RH ~ 95%RH (no condensation, humid)
电气寿命 Electrical life	5A 250VAC, 250mA 连续负载, 1000 万次 5A 250VAC, 250mA continuous load, 10000000 times 5A 250VAC, 250mA continuous load, 10000000 times

性能参数 (表 2.1)	
Performance parameters (Table 2.1)	
安装方式 Installation method	卡扣导轨式安装 Buckle rail installation
外观材料 Appearance material	接触片 Contact piece 高精磷铜，表面镀锡层 High precision phosphor copper with copper tin plating on the surface
	扳扣 Pulling buckle POM+GF30%
	焊接插座 welding socket PA6 (RoHS), V2级阻燃 PA6 (RoHS), V2 level flame retardant
	端子 terminal PA66 (RoHS), V2级阻燃 PA66 (RoHS), V2 flame retardant
	底板 baseplate PA6 (RoHS), V2级阻燃 PA6 (RoHS), V2 level flame retardant
	边框 bumper PA6+GF20 (RoHS)
线路板 circuit board	Epoxy 1.6t
接线形式 Wiring form	直插式卡簧接线，使用 0.5~1mm ² 国标线 Direct insertion card spring wiring, using 0.5~1mm ² national standard line
卡簧拉力 Card spring tension	100kgf.cm
工作环境温度 Ambient temperature	-40℃~+80℃，非真空状态，不结冰情况下 -40℃~+80℃, under non vacuum and non icing conditions
工作环境湿度 Working environment humidity	35~85%RH
贮存环境温度 Storage environment temperature	包装完好情况下，-40℃~+55℃ Under intact packaging, -40℃ to +55℃
贮存环境湿度 Storage environment humidity	包装完好情况下，45~90%RH When the packaging is intact, 45~90% RH
额定电压 rated voltage	250VAC/24VDC
额定电流 rated current	5A
绝缘电阻 insulation resistance	≥1000MΩ (500VDC)
耐电压 Withstand Voltage	AC500V 1min
耐振性 resistance to vibration	XYZ 三向，60Hz，振幅2mm，10小时（每2小时共振记录） XYZ three-way, 60Hz, amplitude 2mm, 10 hours (observe and record every 2 hours)
产品防跌落 Product anti fall	底座垂直跌落1米，3次，能正常工作 The base has dropped vertically by 1 meter for 3 times and can work normally
包装跌落 Packaging falling	600mm高度连续跌落4次，产品无损坏 4 consecutive drops from a height of 600mm without any damage to the product
图纸未注一般公差 The drawing does not indicate general tolerances	按GB/T 1804- [*] 标准执行。 Follow the GB/T 1804- [*] standard.

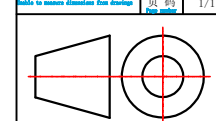
RY MD1 / T 1H 8- D24
① ② ③ ④ ⑤ ⑥

1. **RY: 企业代号**
1. **RY: Enterprise Code**
2. **MD1: 松下APAN3124继电器模组系列**
2. **MD1: Panasonic APAN3124 Relay Module Series**
3. **T: 接线方式直插式**
3. **T: Direct insertion wiring method**
5. **1H: 一组常开**
5. **1H: A set of normally open**
6. **8: 8路**
6. **8: 8route**
7. **D24: 电压24VDC**
7. **D24: Voltage 24VDC**



轴测图
Isometric drawing

所有尺寸均以mm为单位 不能从图纸上测绘尺寸	比例 图幅	1:1 A4
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RY-ELE[®]
浙江荣越电气有限公司
Zhejiang Rongyue Electric Co., Ltd

产品名称 Product Name	继电器模块 Relay base
产品型号 Product drawing number	RYMD1/T1H8-D24