

产品规格确认书

Specification for approval

文件编号 File No. : GO20230810001

产品名称 Product Name: **继电器 RELAY**

产品型号 Product model : GO-1A-24D2



环保标准 Environmental standards : ROHS 2.0

发布日期 Date : 2023 年 08 月 10 日

联系人 Contact: _____

版本 Version : V1.0

更改单号 Number of Modification: _____

高登审批签字 Signature by golden			顾客签字或盖章 Stamp or signature by customer
批准 Approved	审核 Check	拟制 Make	负责人 by :
			日期 date :



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变更版记录 Revisions

顾客 Customer		产品型号: GO-1A-24D2 Part No.		
变更版 Version No.	变更日期 Change Date	变更内容 Description	原因 Reason	负责人 By



产品规格确认书 Relay Specification for approval

TYPE: GO SERIES

型号 Type	触点形式 Contact form	外形尺寸 Outline	绝缘系统 Electrical Insulation	触点材料 Contact Material	产品单重 Weight
GO-1A-24D2	<u>1A</u>	<u>29</u> × 12.7 × <u>16</u> mm	Class <u>F</u>	Silver alloy	About 10g

安全标准 Safety Standard

Certified	UL/CUL	CQC	TUV
File No.	E321783	CQC15002129740	R 50321370

上述认证号代表该产品取得相关认证，但具体认证内容请以我公司提交的证书为准。

The authentication number represents the product to obtain the relevant certification, but the specific certification to certificate our company, please submit prevail.

线圈额定参数 Coil Rating

at 23°C

额定电压 Nominal Voltage (Vd.c)	动作电压 Pick-up Voltage(Vd.c.)	释放电压 Drop-out Voltage(Vd.c.)	允许最大线圈电压 Max. Allowable Voltage(Vd.c.)	线圈电阻 Coil Resistance (Ω)	线圈功耗 Coil Power W
24.0	≤18.0	≥2.4	31.2	1440×(1±10%)	About 0.40

触点参数 Contact Specification

触点额定负载 (阻性) Contact Rating (Cosφ=1)	最大切换电流 Max. Contact Current	最大切换电压 Max. Contact Voltage	最小适用负载 Min. Applicable Load
17A	17A	277VAC	6VDC 1A



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➤ 性能 Performance

接触电阻 Contact resistance	100mΩMax. (at6 Vd.c.1A)
动作时间 Operate time	15 msMax.
释放时间 Release time	10 msMax.
绝缘电阻 Insulation resistance	1000 MΩMin.(DC500V)
工作温度 Operating temperature	-40 ~ 85°C
工作湿度 Operating humidity	5~85%RH
储藏温度 Storage temperature	-40 ~ 85°C
储藏湿度 Storage humidity	5~85%RH
介质耐压 Dielectric strength(1)	触点触点间 Between open contact :AC 1000 V, 50/60Hz 1min.
	触点线圈间 Between contact & coil: AC 5000V, 50/60Hz 1min.
振动 Vibration resistance	<p>(1).耐久振动 在振动为双振幅 1.5mm、无励磁的状态时、以振动频率 10 ~ 55 Hz/分的振荡在 XYZ 的各方向上进行 2 小时后，在外观、构造、性能上应没有异常。</p> <p>(1) Durable vibration When the vibration is in a double amplitude of 1.5mm without excitation and oscillates at a frequency of 10-55 Hz/min in all directions of XYZ for 2 hours, there should be no abnormalities in appearance, structure, or performance.</p> <p>(2).误动作振动 在振动为双振幅 1.5mm、励磁的状态时、以振动频率为 10 ~ 55Hz/分的振荡在 XYZ 的各方向上进行 5 分钟时，实验中应没有误动作。实验后在外观、构造、性能上应没有异常。</p> <p>(2) Misoperation vibration When the vibration is in the state of dual amplitude 1.5mm and excitation, and the vibration frequency is 10~55Hz/min, there should be no misoperation in the experiment when conducted in all directions of XYZ</p>



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	for 5 minutes. After the experiment, there should be no abnormalities in appearance, structure, or performance.
冲击 Shock resistance	<p>1).抗误动作能力 动作/释放状态下,继电器在三轴六方向耐受加速度 98 m/s² 及作用时间 11 毫秒的冲击各 3 次,触点误动作不超过 1 毫秒。</p> <p>1).Capability to function during shock No opening or closing of any closed or opened contact circuit respectively exceed 1ms when the relay is subjected to shock of 98 m/s² for 11ms in both directions of each of three mutually perpendicular axes for 3 times respectively, while it is in operate condition and in release condition</p> <p>2)振动耐久能力 继电器在三个轴向耐受加速度 980 m/s² 及作用时间 6 毫秒的冲击各 3 次,产品构造和性能无异常发生。</p> <p>2). Capability to function during shock No construction trouble when shocks is from 3 directions 3 times (at peak acceleration 980m/s² Duration 6ms)</p>
引出端 terminal	PCB 式引出端 PCB type terminal
端子强度 Terminal robustness	继电器引出端承受 5 牛顿的轴向压入、拨出力,延时 10 秒,构造和性能无异常。 No trouble on structure and characteristics after endure axial pushing/pulling force of 5 N for 10 seconds.
耐低温 Cold resistance	-40°C中放置 240 小时并在标准大气条件中恢复 2 小时 后继电器构造和特性无异常。 No trouble on structure and characteristics after placed at -40°C for 240 hours and 2 hours recovery in standard atmospheric conditions.
耐高温 Thermal resistance	85°C中放置 240 小时并在标准大气条件中恢复 2 小时后继电器构造和特性无异常。 No trouble on structure and characteristics after placed at 85°C for 240 hours and 2 hours recovery in standard atmospheric conditions.
耐湿度 Humidity resistance	40°C及 95%相对湿度中放置 240 小时并在标准大气条件中恢复 2 小时后继电器构造和特性无异常。 No trouble on structure and characteristics after placed at 40°C&95%RH for 240 hours and 2 hours recovery in standard atmospheric conditions.

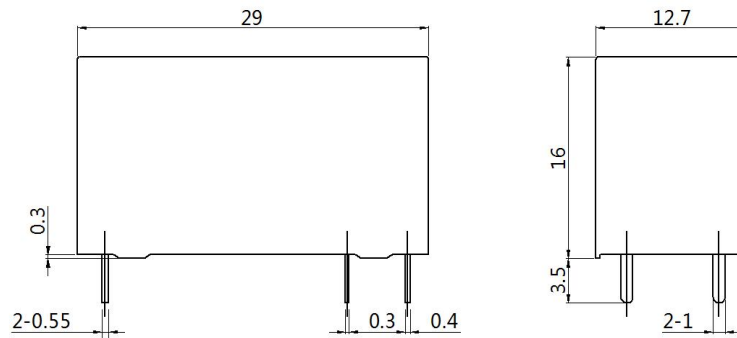


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耐冷热冲击 Thermal shock resistance	-40°C和 85°C中各放置 0.5 小时为一个温度周期，循环 10 次，在标准大气条件中恢复 2 小时后继电器构造和特性无异常。 No trouble on structure and characteristics after endure 10 cycles of cyclic temperature and 2 hours recovery in standard atmospheric conditions, which the temperature cycle consists of -40°C for 0.5 hour and 85°C for 0.5 hour.	
寿命 Life expectancy	机械寿命 Mechanical	1,000,000 operations (frequency 18,000 operations/h)
	电气寿命 Electrical	17A 250Vac 100000 operations(1s on:9s off)
温升 Temperature Rise	线圈 (Coil)	阻性法，线圈加额定电压触点电流：0.1A 温度 $\leq \Delta 70^{\circ}\text{C}$ 。 $\Delta 70^{\circ}\text{C}$ Max.by resistance method at Ccontact:0.1A, Coil : rated voltage
	端子 (Terminal)	测温法，线圈加额定电压触点电流：17A 温度 $\leq \Delta 70^{\circ}\text{C}$ 。 $\Delta 70^{\circ}\text{C}$ Max .by temperature measuring method at Contact:17 A,Coil : rated voltage
焊接性能 Soldering Ability	焊接温度 Soldering Temperature	(260 \pm 3) °C
	焊接时间 Soldering time	(3 \pm 0.5) s

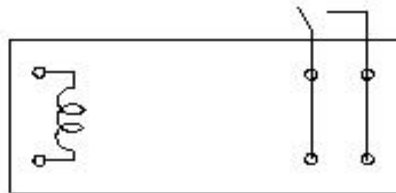
产品结构 Configuration

外形图 OUTLINE DIMENSIONS

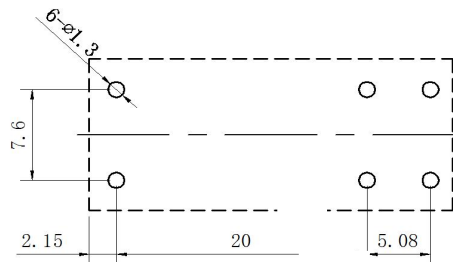


产品外形尺寸未注尺寸公差	
Outline dimensions hadn't specified tolerance	
外形尺寸	公差
Outline Dimensions	Tolerance
≤1	±0.2
> 1 ~ 5	±0.3
> 5	±0.4

接线图 (底视图) WIRING DIAGRAM (Bottom View)



安装孔位图 (底视图) PCB layout (Bottom View)



TOLERANCE: ±0.1

订货标记 Ordering Information



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G0 命名规则

G0 -1 C -12 D S A X T XXX

特殊说明:数字或者字母代表特殊型号

无--表示环境温度85度(采用普通的工程料)

T--表示环境温度105度(采用过灼热丝材料)

触点负载:无--标准型(单刀单掷),H--高负载(单刀单掷)
2--高负载(单刀双掷)

绝缘等级:无--Class F,A--Class A

密封方式:无--密封型,S--防爆密封型

线圈功率:D--0.4W,H--0.53W



线圈额定电压(VDC):3,5,6,9,12,18,24,48,60,110

接触形式:A--常开型;B--常闭性;C--转换型

触点组数:1--1组触点;2--2组触点

产品型号名称:G0

Marking and Packing

标识 Logo	<p>C2202-B</p>   <p>GOLDEN 17A 277VAC 17A 24VDC ----- 17A 250VAC GO-1A-24D2</p>	Eng. Change	
		Initial Issued	2023-08-10
<p>NOTE: Marking "C1403-B" is the production date and batch number; The meaning of the marking according to below:</p> <p>C 14 03-B</p> <p>----- A: 第一周; B: 第二周; C: 第三周; D: 第四周 月份标识: 01~12分别代表制作此钢板时所处的月 年份标识: 2014年用14 标识 C: Made In China</p> <p>May have no the marking if customer have no demand;</p>		<p>装箱数量 Packing</p> <p><u>1000</u> PCS/Box</p>	



➤ 其他 Others

- 1 规格书内的各项性能参数是基于标准测试条件下测得的初始值
All the performance data listed in the datasheet are the initial values tested under standard testing condition.
- 2 非塑封继电器需要防止助焊剂或污染物进入继电器
Unsealed relays should be hand soldered to avoid flux contamination of the relay.
- 3 避免在强磁场条件下使用继电器，外界强磁场会造成继电器动作和释放等参数发生变化。
To avoid using relays under strong magnetic field because it will change the parameters of relay such as pull-in and drop-out voltage.
- 4 为了保持继电器的性能，请注意不要使继电器掉落或受到强冲击。掉落后的继电器建议不再使用。
To maintain the performances of relays, please do not make the relay drop or be shocked strongly. Suggest that the relays dropped not be used.
5. 环保产品(符合 ROHS)
Environmental product (compliance with RoHS)