



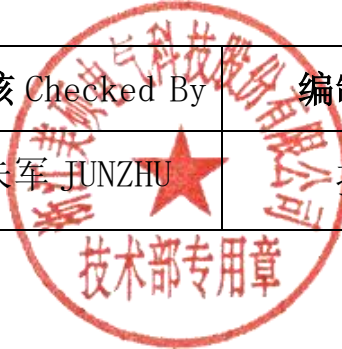
电子元器件规格书 RELAY SPECIFICATION

| | |
|-----------------------|---------------------------------|
| 器件名称 Name : | 继电器 (RoHS) RELAY |
| 型号规格 Product Name: | ME100-S-1A-XF 12VDC (1.4W, 26A) |
| 客户名称 Customer: | |
| 客户编码 Customer Number: | |
| 版本 Version: | V1.0 |

(客户批准) Customer Approval

| |
|---------------------|
| (盖章处) STAMPING AREA |
| |

| | | |
|----------------|---------------|---------------|
| 批准 Approved By | 审核 Checked By | 编制 Created By |
| 彭碧辉 BIHUIPENG | 朱军 JUNZHU | 孙凯 KAISUN |



注意事项(Remarks:):

- 1、本规格书双方签字后正式生效，本规格书连同封面共 12 页；
(Specification come into force after signed by both parties. Total 12 pages)
- 2、本规格书一式两份，版本由使用方与供方共同维护；
Two copies of this specification, maintained by both parties.
- 3、任何对内容的改动必须经双方同意，并以书面文件的形式发布。
Any changes must agreed by both parties, and publish the form of a written document.

本规格书有中英文两种版本。如有冲突，以中文版本为准，英文版本则为参考。(This specification is made out in both Chinese and English versions. We hereby set Chinese version as standard and English version as a reference if any conflicts occur.)



变更记录

| 序号 No. | 更改内容 Change Contents | 更改原因 Change Reason | 更改时间 Date | 责任人 person |
|-----------|-------------------------|-----------------------|--------------|---------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

一 浙江美硕继电器认证类型及认证号 Approvals type and approvals number

| | | |
|-----|---------------------------|----------------|
| 1.1 | CQC 证书 CQC Certificate | CQC21002309550 |
| 1.2 | UL 证书 UL Certificate | -- |
| 1.3 | TUV 证书 TUV Certificate | -- |

二 线圈参数 Coil Specification

| | | |
|-----|---------------------------------|---------------------|
| 2.1 | 额定电压 Rated voltage | 12VDC |
| 2.2 | 线圈电阻 Coil resistance | 103Ω±10% (at 23±1℃) |
| 2.3 | 额定功率 Coil power | 1.4W |
| 2.4 | 最大允许电压 Max.allowable voltage | 14.4V |

三 触点参数 Contact Specification

| | | |
|-----|---------------------------------|------------|
| 3.1 | 触点额定参数 Contact rating | 26A 277VAC |
| 3.2 | 最大切换电流 Max.Switching current | 26A |
| 3.3 | 最大触点容量 Max. contact capacity | 7202 VA |
| 3.4 | 最小适用负载 Min.Applicable Load | 1A 6VDC |
| 3.5 | 最小触点间隙 | ≥1.5mm |

四 操作性能 Operate Performances

| | | |
|-----|----------------------------|------------------|
| 4.1 | 接触电阻 Contact resistance | ≤100mΩ (1A 6VDC) |
| 4.2 | 吸合电压 Operate voltage | ≤8.4VDC |
| 4.3 | 释放电压 Release voltage | ≥1.2VDC |
| 4.4 | 吸合时间 Operate time | ≤20ms |
| 4.5 | 释放时间 Release time | ≤10ms |

五 寿命要求 Life Requirements

| | | |
|-----|-------------------------|---|
| 5.1 | 电气寿命 Electrical Life | 30,000 次(85℃, 阻性负载, 动作频率: 6 次/分钟, 10%占空比, 1 秒通 9 秒断) 30,000 cycle ,85℃, resistive load, Action frequency: 6 times / min, 10% duty cycle, 1 second NO 9 second NC |
| 5.2 | 机械寿命 Mechanical Life | 1,000,000 次, (无负载, 60 次/分钟) 1,000,000 cycle ,No load,60 cycles/minute |

六 安全及环境性能要求
Safety and environmental performance requirements

| | | |
|-----|---------------------------------|--|
| 6.1 | 存储条件 Storage Condition | 温度: -40~+85℃, 湿度: 20%~85%RH Temperature: -40~+85℃,Humidity:20%~85%RH |
| 6.2 | 使用条件 Use Condition | 温度: -40~+85℃, 湿度: 20%~85%RH Temperature: -40~+85℃,Humidity:20%~85%RH |
| 6.3 | 安装方向 Installation direction | 端子向下 Terminal down |
| 6.4 | 绝缘电阻 Insulation resistance | 断开触点间、触点和线圈间: 1000MΩ Min (500VDC) Open contacts、Contacts and coil:1000MΩ Min (500VDC) |
| 6.5 | 介质耐压 Dielectric Strength | 断开触点间: 2500VAC (1mA) (50/60Hz)1 分钟 Open contacts: 2500VAC (1mA) (50/60Hz) 1Min 触点和线圈间: 4500VAC (1mA) (50/60Hz)1 分钟 Between the contact and the coil: 4500VAC (1mA) (50/60Hz) 1Min |
| 6.6 | 引出脚强度 Lead-out foot strength | 在垂直于引出脚方向上施加 15N 的拉力 6s, 继电器应无异常。 Apply a pull force of 6s of 15N perpendicular to the lead pin and the relay shall be normal. |
| 6.7 | 耐振动性 Vibration resistance | (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 10~55~10Hz/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。 (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 10~55~10Hz/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。 Durable vibration When the vibration is a double amplitude of 1.5 mm or less, the oscillation at a vibration frequency |

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| | | of 10 to 55 to 10 Hz / minute is performed for 2 hours in each direction of the XYZ, and there is no abnormality in appearance, configuration, and performance. |
| 6.8 | 耐冲击性 Impact resistance | <p>(1) 耐久冲击 在无励磁的状态下, 以加速度为 $1,000\text{m/s}^2$ 的冲击在 XYZ 的各方向进行 5 次后, 在外观、构造、性能上应没有异常。</p> <p>(2) 误动作冲击 在励磁的状态时、以加速度为 200m/s^2 的冲击在 XYZ 的各方向进行 2 次时, 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>(1) Durable impact In the absence of excitation, the acceleration of $1,000\text{m} / \text{s}^2$ in the XYZ in the direction of the five times, in the appearance, structure, performance should be no exception.</p> <p>(2) Malfunctioning In the state of excitation, when the acceleration of $200\text{m} / \text{s}^2$ in the XYZ in the direction of the two times, the experiment should be no malfunction. After the experiment in appearance, structure, performance should be no exception.</p> |
| 6.9 | 耐低温性 Low temperature resistance | <p>(1) 使用时耐低温 将没有外加电压和电流的继电器放入温度为 $-40 \pm 2^\circ\text{C}$ 的恒温槽内连续保持 2 小时后、在保持原状态的同时对实验回路外加额定电压进行实验时, 继电器能正常动作。(在 0°C 时不结冰状态)</p> <p>(2) 贮存时耐低温性 将继电器放入温度为 $-20 \pm 2^\circ\text{C}$ 的恒温槽内连续保持 72 小时后, 移放入常温常湿的地方, 擦去水滴, 放置 1~2 小时, 随后检查其构造、动作、绝缘电阻、介电性能, 应没有异常。</p> <p>(1) Use low temperature when used The relay will be able to move normally when the rated voltage is applied to the experimental circuit while maintaining the original state for 2 hours in a constant temperature tank with no voltage and current applied to the temperature of $-40 \pm 2^\circ\text{C}$. (No ice at 0°C)</p> <p>(2) Low temperature resistance when stored The relay placed in the temperature of $-20 \pm 2^\circ\text{C}$ constant temperature tank for 72 hours, then moved to the room temperature and humidity, wipe the water droplets, put 1 to</p> |

| | | |
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| | | 2 hours, then check its structure, action, insulation resistance, Dielectric properties should be no exception. |
| 6.10 | 耐高温性 High temperature resistance | <p>(1) 使用时耐高温性 在继电器的控制回路上加额定电压、主回路通额定电流的状态下, 将其放入 $85 \pm 2^{\circ}\text{C}$ 的恒温槽内连续 2 小时后, 在保持原状态的同时对实验回路进行开关实验时, 继电器应能正常动作。</p> <p>(2) 贮存时耐高温性 将继电器放入温度为 $40 \pm 2^{\circ}\text{C}$ 的恒温槽内连续保持 72 小时后, 移放入常温常湿的地方, 擦去水滴、放置 1~2 小时, 随后检查其构造、动作、绝缘电阻、介电性能、应没有异常。</p> <p>(1) Use high temperature resistance In the relay control circuit plus rated voltage, the main circuit through the rated current state, put it into the $85 \pm 2^{\circ}\text{C}$ constant temperature tank for 2 hours, while maintaining the original state of the experimental circuit for the switch test, The relay should be able to operate normally.</p> <p>(2) High temperature resistance when stored The relay placed in the temperature of $40 \pm 2^{\circ}\text{C}$ constant temperature tank for 72 hours, then transferred to the room temperature and humidity, wipe the water droplets, put 1 to 2 hours, then check its structure, action, insulation resistance, mediated Electrical performance should be no exception.</p> |
| 6.11 | 耐湿性 Moisture resistance | <p>将继电器放入温度为 $40 \pm 2^{\circ}\text{C}$、相对湿度为 90~95% 的环境里连续保持 48 小时后, 移到常温常湿的地方放置 1 小时以上、2 小时以内后检查其构造、动作、绝缘电阻、介电性能, 应没有异常。</p> <p>The relay placed in the temperature of $40 \pm 2^{\circ}\text{C}$, relative humidity of 90 ~ 95% of the environment for 48 hours in a row, moved to room temperature and humidity place for 1 hour or more, 2 hours after the check its structure, action, insulation Resistance, dielectric properties, should be no exception.</p> |
| 6.12 | 可焊性 Solderability | <p>$235 \pm 5^{\circ}\text{C}$, $3 \pm 1\text{s}$ (有铅焊接); $260 \pm 5^{\circ}\text{C}$, $3 \pm 1\text{s}$ (无铅焊接), 90% 以上引脚面积覆锡。$235 \pm 5^{\circ}\text{C}$, $3 \pm 1\text{s}$ (lead soldered), $260 \pm 5^{\circ}\text{C}$, $3 \pm 1\text{s}$ (lead free soldered), more than 90% of the lead area covered with tin.</p> |


七 厂家型号及型号含义、丝印图案及各部位含义说明 (体现厂家、批号、认证等)

Manufacturer P/N ,Meaning of P/N, Printing and remarks

公司商标
LOGO

负载规格
Load Specifications

产品型号
Product Name



12VDC 211000
1.4W

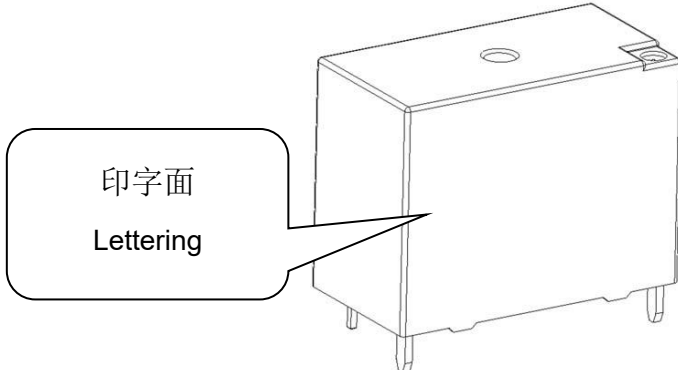
26A 277VAC
31A 250VAC COS φ =0.8
26A 250VAC

ME100-S-1A-XF

额定电压
Coil Voltage

生产批号
Produce Code

印字示意图
Block diagram



印字面
Lettering

| | | | | | |
|------------------------|-----------------------------|--|---------------------------|-------------------------|-------------------------------|
| ME100 | -S:塑封型 -S:Plastic sealed | -1:1 组 | A:Form A(NO) | -X:1.5mm | F:F 级 |
| A:型号 A:Model number | B:产品结构 B:Construction | C:主触点组数 C: Number of primary contacts | D:触点形式 D: Contact form | E:触点间隙 E:Contact gap | F:绝缘等级 F: Insulation grade |

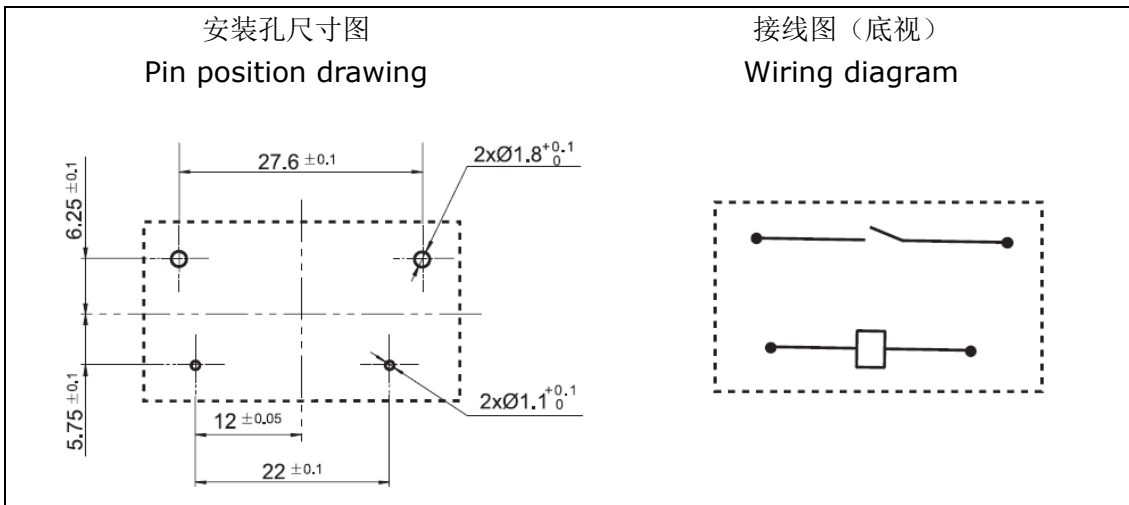
八 生产批号标识 (Produce Code) XX XX XX

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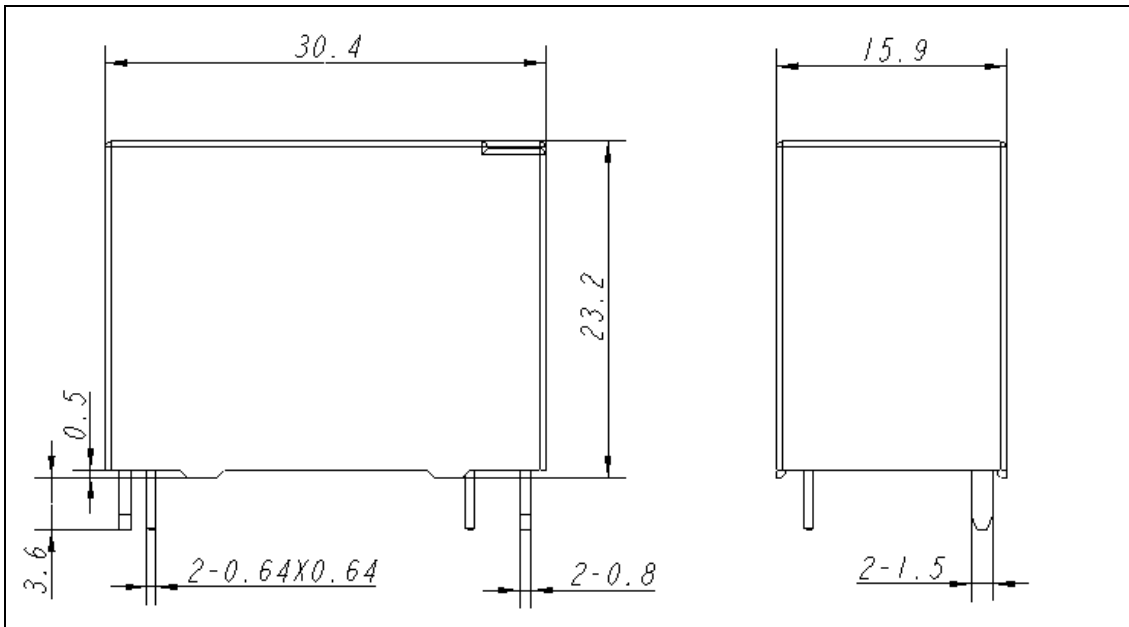
- 1、年份批号 (Year) (10-2010, ……)
- 2、月份编号 (Month) (01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12)
- 3、流水批号 (Serial number) (01, ……)

九 接线及装配尺寸图 (孔距公差±0.2, 孔径公差±0.1)

Wiring diagram and pin position drawing (pin distance ± 0.2 , Apert ± 0.1)



十 外观尺寸图 Outline Dimensions



备注：外形图中产品部分未注公差尺寸，当尺寸 ≤ 1 mm，公差为 ± 0.2 mm；

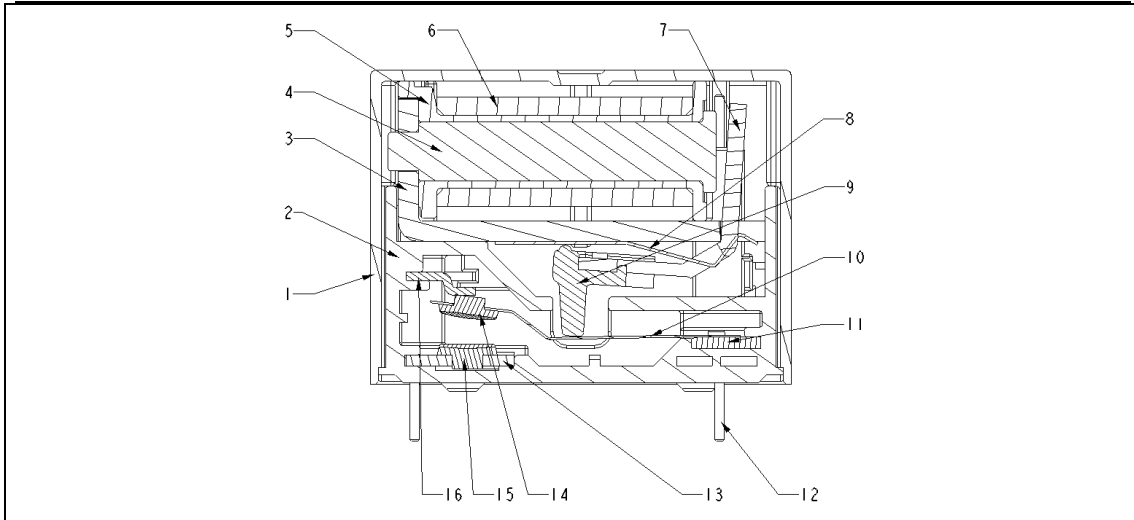
当尺寸在 $1 \sim 5$ mm，公差为 ± 0.3 mm；当尺寸 > 5 mm，公差为 ± 0.4 mm。

Note:

The tolerance dimension of the product parts in outline drawing is ≤ 1 mm, tolerance is ± 0.2 mm;

When the dimension is $1 \sim 5$ mm, the tolerance is ± 0.3 mm; When size > 5 mm, tolerance is ± 0.4 mm.

十一 内部结构图 Important Part And Components



| 序号 (NO.) | 零部件名称 Part Name | 序号 (NO.) | 零部件名称 Part Name |
|-------------|--------------------|-------------|--------------------|
| 1 | 外壳 Case | 9 | 推杆 Card |
| 2 | 基座 Base | 10 | 动簧片 Spring |
| 3 | 轭铁 Yoke | 11 | 动簧脚 Mov-Terminal |
| 4 | 铁芯 Core | 12 | 引线针-Coil-PIN |
| 5 | 线圈架 Bobbin | 13 | 静簧脚 Sta-terminal |
| 6 | 漆包线 Wire | 14 | 动点 Mov-Contact |
| 7 | 衔铁 Armature | 15 | 静点 Sta-Contact |
| 8 | 压簧 Hinge | 16 | 定位片 Stopper |

十二 零部件品牌、参数、成份等

component brand, parameters, ingredients, etc

| 序号 | 零部件名称 | 材料 | 供应商 |
|----|---------------|-----------------|---|
| 1 | 外壳 Case | 工程塑料 Plastic | 宝理/新光/杜邦/三菱/金发 (Polyplastics / Shin Kong / DuPont / Mitsubishi / King Fa) |
| 2 | 基座 Base | 工程塑料 Plastic | 宝理/新光/杜邦/三菱/金发 (Polyplastics / Shin Kong / DuPont / Mitsubishi / King Fa) |
| 3 | 轭铁 Yoke | 电工纯铁 Iron | 太钢/宝钢/鞍钢 (TISCO/ANSTEEL/BAOSTEEL) |
| 4 | 铁芯 Core | 电工纯铁 Iron | 太钢/宝钢/鞍钢 (TISCO/ANSTEEL/BAOSTEEL) |
| 5 | 线圈架 Bobbin | 工程塑料 Plastic | 宝理/新光/杜邦/三菱/金发 (Polyplastics / Shin Kong / DuPont / Mitsubishi / King Fa) |
| 6 | 漆包线 Wire | 3UEW | 蓉胜/一致/益利素勒/大连富士 Ronsen/Yichi/ Elektrisola/FUJI |

| | | | |
|----|---------------------|---------------------|--|
| 7 | 衔铁 Armature | 电工纯铁 Iron | 太钢/宝钢/鞍钢 (TISCO/ANSTEEL/BAOSTEEL) |
| 8 | 压簧 Hinge | 铜合金 Copper alloy | 鑫科/三菱/兴业/博威 (Xinke / Mitsubishi / Industrial / Bowei) |
| 9 | 推杆 Card | 工程塑料 Plastic | 宝理/新光/杜邦/三菱/金发 (Polyplastics / Shin Kong / DuPont / Mitsubishi / King Fa) |
| 10 | 动簧片 Spring | 铜合金 Copper alloy | 鑫科/三菱/兴业/博威 (Xinke / Mitsubishi / Industrial / Bowei) |
| 11 | 动簧脚 Mov-Terminal | 铜合金 Copper alloy | 鑫科/三菱/兴业/博威 (Xinke / Mitsubishi / Industrial / Bowei) |
| 12 | 引线针 Coil-PIN | 铜包钢 Copper alloy | 跃兴/宏福 (Hongfu/Yuexing) |
| 13 | 静簧脚 Sta-terminal | 铜合金 Copper alloy | 鑫科/三菱/兴业/博威 (Xinke / Mitsubishi / Industrial / Bowei) |
| 14 | 动点 Mov-Contact | 银合金 Silver alloy | 福达/聚星/格林/宁波电工 (Foodar/ Green/Juxing/ Gold Point) |
| 15 | 静点 Sta-Contact | 银合金 Silver alloy | 福达/聚星/格林/宁波电工 (Foodar/ Green/Juxing/ Gold Point) |
| 16 | 定位片 Stopper | 铜合金 Copper alloy | 鑫科/三菱/兴业/博威 (Xinke / Mitsubishi / Industrial / Bowei) |

十三 来料包装形式 Form of packing with supplied materials

| | | |
|------|---|---|
| 13.1 | 来料包装形式 Form of packing with supplied materials | 内包装用塑盒包装，外包装用牢固的纸箱包装。 The inner packing is in plastic box, and the outer packing is in strong carton. |
| 13.2 | 运输规定 Transport regulation | 产品运输过程中应注意防止重压、跌落、防潮和防热。 Product transportation process should pay attention to prevent pressure, fall, moisture and heat. |

十四 厂家扫描版本附件 Manufacturer Scan version attachment 无 (None)