

规格承认书

SPECIFICATION FOR APPRVAL

客户 (CUSTOMER) :

品名 (ITEM) : 继电器

型号 (MODEL) : KT116F-2H

客户料号 (CUSTOMER' S P/N) :

发行部门 (ISSUER) : 技术部

发行日期 (DATE OF ISSUED) :

客户承认栏 (APPROVED BY)				深圳市科泰电子科技有限公司			
核准 APPROVER		承办 CHECKED		核准 APPROVER	余鹏	编制 CHECKED	黄威
承认章 (APPROVED)							



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SPECIFICATION FOR APPROVAL

1 产品类型 (TYPE MODEL)

- 1.1 型号 (TYPE)
KT116F)
- 1.2 触点形式 (CONTACT ARRANGEMENT)
1H/2H
- 1.3 触点材料 (CONTACT MATERIAL)
银氧化锡 (AgSnO)

2 线圈额定值 (COIL RATING)

线圈参数						
额定电压 V	额定电流 ±10 (mA)	线圈电阻 ±10% (Ω)	最大连续外加 电压 (V)	吸合电压 (Max.)	释放电压 (Min.)	额定功耗 (W/VA)
DC6V	333	18	额定电压×110%	≤额定电压 ×75%	≥额定电压×10%	2W
DC9V	222	40.5				
DC12V	167	77				
DC24V	83	288				
DC36V	55	648				
DC48V	42	1152				
DC110V	18	6050				
AC6V	378	14	额定电压×110%	≤额定电压 ×80%	≥额定电压×30%	2VA
AC12V	189	55.8				
AC24V	94.6	223				
AC36V	63	502				
AC48V	47	899				
AC110V	20	4840				
AC220V	10	18740				
AC240V	9.5	22302				

3 触点规格 (CONTACT SPECIFICATION)

- 3.1 触点额定值 (CONTACT RATING)
1H/30A 2H/25A 277VAC/28VDC (阻性 Resistive)
- 3.2 触点额定电流 (RATED CONTACT CURRENT)
1H/30A 2H/25A
- 3.3 最大分断能力 (MAX CONTACT CAPACITY)
277VAC/28VDC
- 3.4 最小适用负载 (MIN APPLICABLE LOAD)
6VDC 100mA (参考值 Reference value)

4 性能 (PERFORMANCE)

- 4.1 接触电阻 (CONTACT RESISTANCE)
≤100mΩ (6VDC, 1mA)
- 4.2 吸合电压 (OPERATE VOLTAGE)
≤75%×额定电压 The rated voltage (at 23°C)
- 4.3 释放电压 (RELEASE VOLTAGE)
≥10%×额定电压 The rated voltage (at 23°C)
- 4.4 动作时间 (OPERATE TIME) ≤25ms

SPECIFICATION FOR APPROVAL

4.5 释放时间(RELEASE TIME) $\leq 15\text{ms}$

4.6 寿命(LIFE)

- 1) 电气寿命(ELECTRICALLY): 1×10^5 次(阻性负载, 10 次/每分钟)
 $1 \times 10^5 \text{ ops min (Resistive load, 10 ops/minute)}$
- 2) 机械寿命(MECHANICALLY): 1×10^7 次(无负荷下, 300 次/每分钟)
 $1 \times 10^7 \text{ ops min (At no load, 300 ops/minute)}$

4.7 介质耐压(DIELECTRIC STRENGTHS)漏电流 1mA (LEAK CURRENT 1mA)

- 1) 触点与触点间(BETWEEN CONTACTS): 1500VAC, 1minute
- 2) 线圈与触点间(BETWEEN COIL TO CONTACTS): 2500VAC, 1minute

4.8 绝缘电阻(INSULATION RESISTANCE)

- 1) 触点与触点间(BETWEEN CONTACTS):
100M Ω
- 2) 线圈与触点间(BETWEEN COIL TO CONTACTS):
100M Ω

4.9 耐冲电压(SURGE RESISTIVE NESS)

- 线圈与触点间(BETWEEN COIL TO CONTACTS):
1.5KV

4.10 温升(TEMPERATURE RISE)

- 1) 线圈(COIL): 阻性法, 线圈加额定电压, 触点加额定电流, 线圈温度 $\leq 120^\circ\text{C}$ 。
- 2) 触点(CONTACT): 测温法, 线圈加额定电压触点加额定电流, 触点温升 $\leq 45\text{K}$ 。

4.11 振动(VIBRATION)

- 1) 误动作(ERROR OPERATION): 以三个方向振动 5 分钟, 误动不超过 1ms (振幅 1.5mm, 10~55Hz)。
No error operation than 1ms Max. when vibrate it from 3 directions for 5 minutes (Amplitude 1.5mm, 10~55Hz).
- 2) 振动耐久性(ENDURANCE): 以三个方向振动 2 小时, 无结构故障(振幅 1.5mm, 10~55Hz)。
No construction trouble when vibrate it from 3 directions for 2 hours (Amplitude 1.5mm, 10~55Hz).

4.12 冲击(HOCK)

- 1) 误动作(ERROR OPERATION): 以三个方向冲击 3 次, 触点误动作不超过 1ms (最高加速度 100m/s^2 持续时间 11ms)。
No error operation by contact more than 1ms Max. When shocks is from 3 directions 3 times (at peak acceleration 100 m/s^2 Duration 11ms).
 - 2) 耐冲击(ENDURANCE): 以三个方向冲击 3 次, 无结构故障(最高加速度 1000m/s^2 持续时间 6ms)。
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SPECIFICATION FOR APPROVAL

No construction trouble when shocks is from 3 directions 3 times(at peak acceleration 1000 m/s^2 Duration 6ms).

4.13 引脚强度 (TERMINAL STRENGTH)

在任何引脚上施加 5N 的力, 持续 10 秒, 表面及结构上应无损伤。

No construction and exterior trouble when push into any terminals by 5N for 10sec.

4.14 高温试验 (THERMAL PROOF)

在 70°C 恒温状态下放置 24 小时, 然后在常温下放置 2 小时, 无结构及性能损伤。

Not any trouble on construction and characteristic when leave in 70°C 24 hours after that , leave it in standard condition for 2 hours .

4.15 低温试验 (COLD PROOF)

在 -55°C 恒温状态下放置 24 小时, 然后在常温下放置 2 小时, 无结构及性能损伤。

Not any trouble on construction and characteristic when leave in -55°C 24 hours after that , leave it in standard condition for 2 hours .

4.16 潮湿试验 (HUMIDITY PROOF)

在 40°C , 湿度 35%–80% 恒温状态下放置 24 小时, 然后在常温下放置 2 小时, 无结构及性能损伤, 绝缘电阻 $\geq 10 \text{ M}\Omega$ 。

Insulation resistance $10 \text{ M}\Omega \text{ min}$. Not any troubles on construction and characteristic when leave in 40°C , humidity 35%–80% 24 hours after that , leave it in standard condition for 2 hours .

4.17 温度急变试验 (THERMAL SHOCK)

在温度 -40°C 及 85°C 恒温状态下各放置 1 小时为 1 个循环, 共 10 个循环后在正常环境下放置 2 小时, 无结构及性能损伤。

Not any troubles on construction and characteristic when leave it in -40°C and 85°C temp. room for 1h each. That is one cycle. After 10 cycles has done, Leave it on standard condition for 2 hours.

4.18 耐焊接热 (SOLDERING THERMAL)

在 $350 \pm 10^\circ\text{C}$ 的锡温中浸锡 3.5 ± 0.5 秒或在 $260 \pm 5^\circ\text{C}$ 锡温中浸锡 10 ± 1 秒, 无结构及性能损伤。

Not any troubles on construction and characteristic. When dipped into soldering bath $350 \pm 10^\circ\text{C}$ $3.5 \pm 0.5 \text{ sec}$ or $260 \pm 5^\circ\text{C}$ $10 \pm 1 \text{ sec}$.

SPECIFICATION FOR APPROVAL

4. 19 可焊性 (SOLDERABILITY)

在 $235 \pm 5^{\circ}\text{C}$ 的锡温中浸锡 2 ± 0.5 秒, 试验后焊锡的浸锡面积应大于 95%。

Not any problems solder dipped at $235 \pm 5^{\circ}\text{C}$ $2 \pm 0.5\text{sec}$.

5 标志 (MARKING)

5. 1 外壳颜色 (CRUST COLOR)

黄色不透明

5. 2 标志位置 (MARKING POSITION)

上面

5. 3 字符颜色 (INK COLOR)

激光打印

6 测试条件 (STANDARDS TEST CONDITION)

6. 1 温度 (TEMPERATURE)

$23 \pm 5^{\circ}\text{C}$

6. 2 湿度 (HUMIDITY)

$60\% \pm 10\%$

6. 3 测试方向 (DIRECTION OF MEASUREMENT)

引线脚向下 (Terminal down position is standard position)

7 使用条件 (OPERATING CONDITION)

7. 1 温度 (TEMPERATURE)

$-25 \sim +55^{\circ}\text{C}$, 无冻结、凝露环境 (However, no freeze and no dew condensation)

7. 2 湿度 (HUMIDITY)

$20 \sim 85\%$

7. 3 安装方向 (MOUNTING DIRECTION)

引线脚向下 (Terminal down position is standard position)

8 储存条件 (STORAGE CONDITION)

8. 1 温度 (TEMPERATURE)

$-20 \sim +40^{\circ}\text{C}$, 无冻结、凝露环境 (However, no freeze and no dew condensation)

8. 2 湿度 (HUMIDITY)

$20 \sim 85\%$

8. 3 环境 (ENVIRONMENT)

- 1) 产品或包装箱避免放置在有腐蚀性的气体中, 如硫化氢气体或含盐空气中。

Store in locations where the product or container is not expose to corrosive gas such As hydrogen sulfide

SPECIFICATION FOR APPROVAL

gas or salty air.

2) 无尘场所。

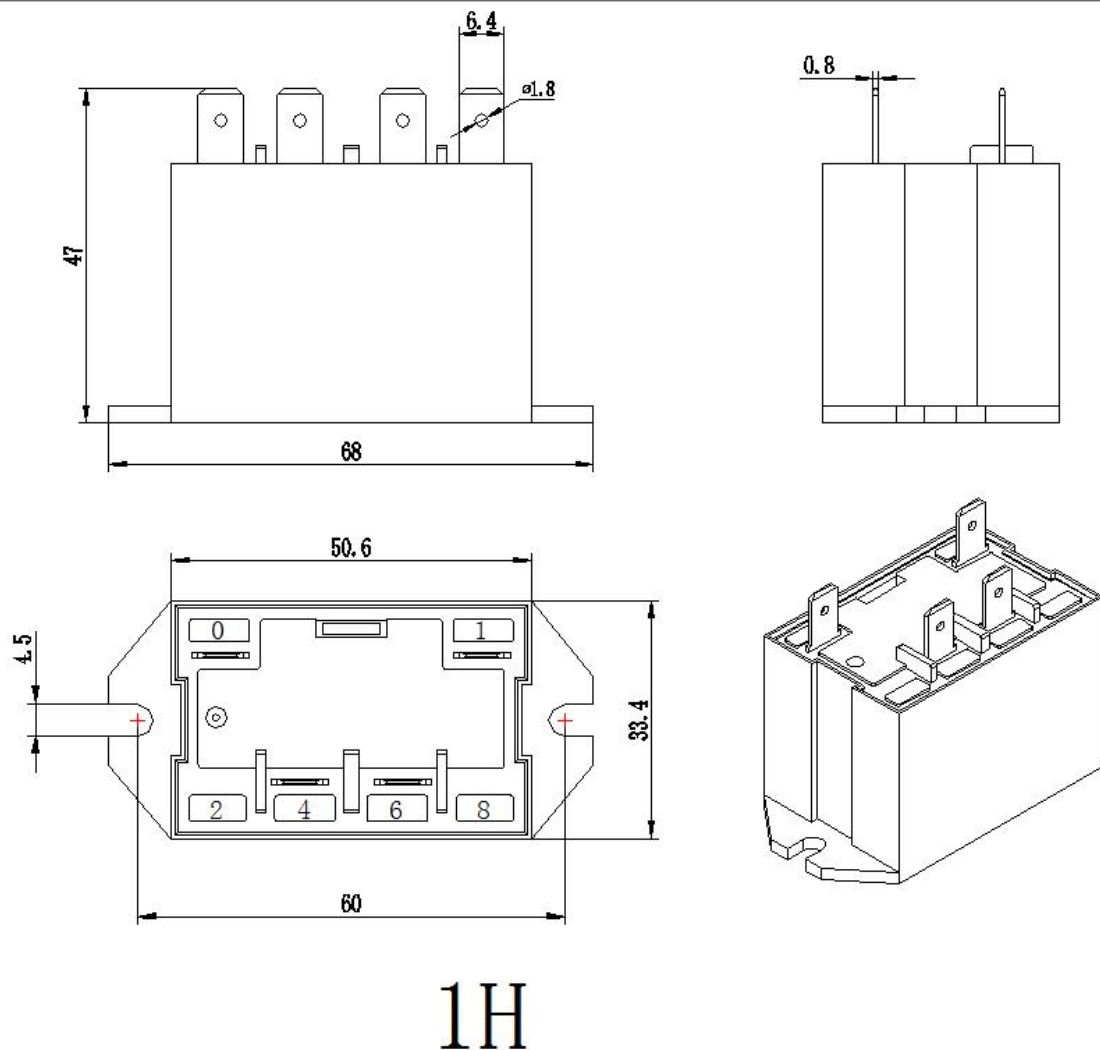
Store in location where no visible dust exists.

3) 避免阳光直射。

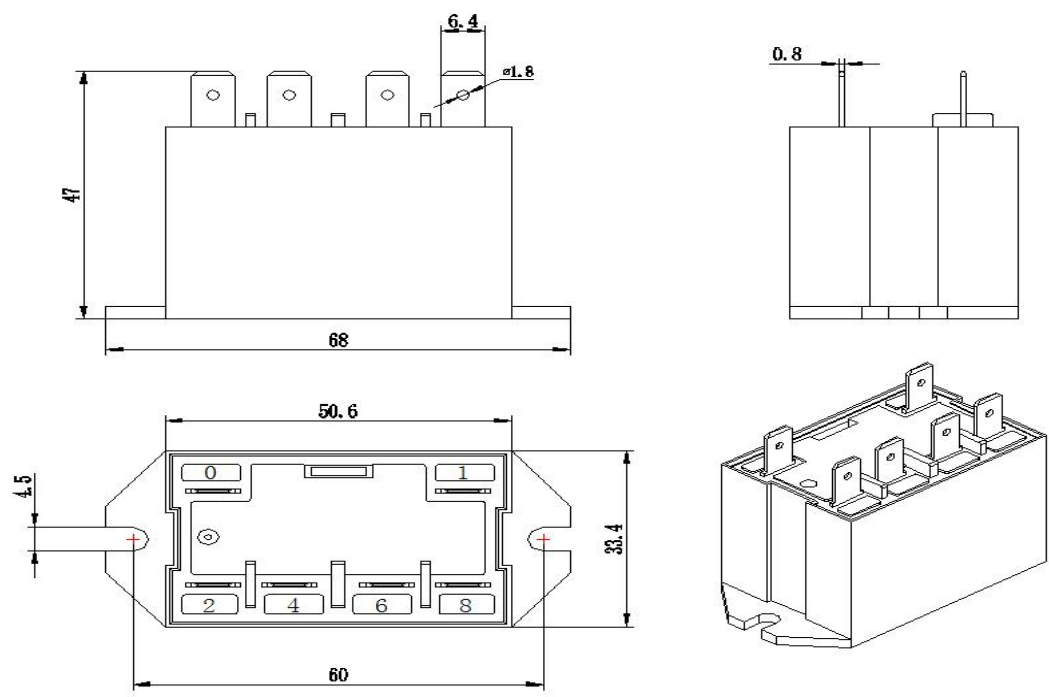
Store in location not subject to direct sunlight.

附：外形尺寸安装与线路图

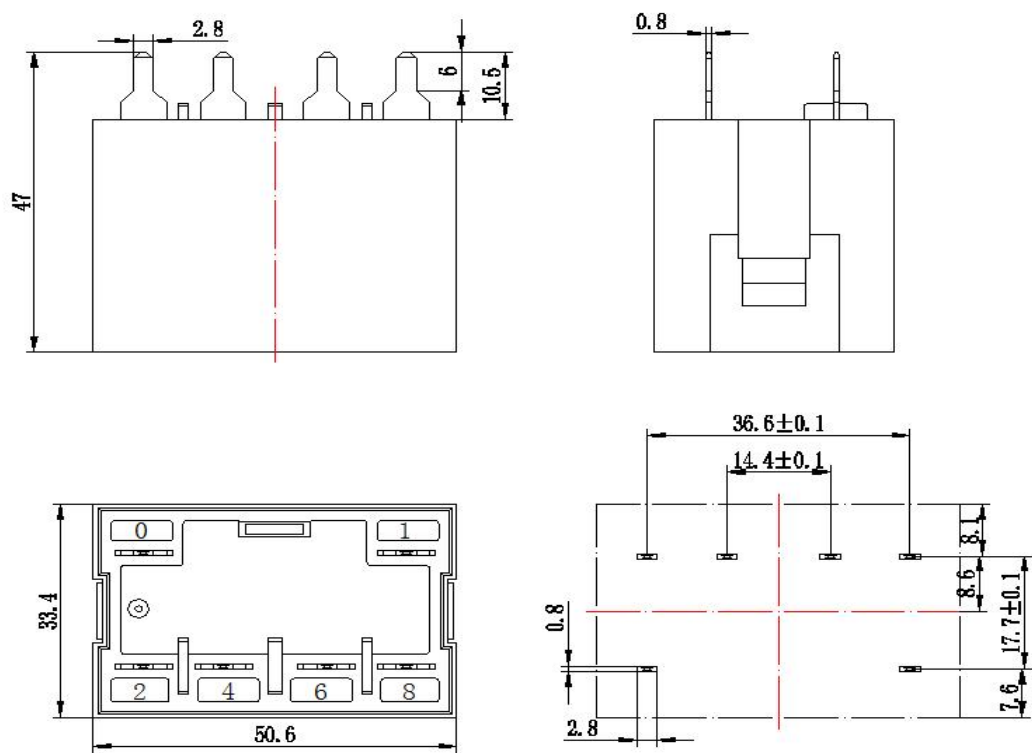
(Overall dimensions、mounting dimensions and the circuit diagram)



SPECIFICATION FOR APPROVAL



2H



2H焊脚