

产品承认书

SPECIFICATION FOR APPROVAL

物料编码:

MATERIAL CODE: 9K3.301-060/105PCB/RVG

型号规格:

MODEL DETAIL: 60°C 10A 常闭

温控器系列 KSD301 试验报告

Test report of thermostat KSD301 series

客户名称 Customer	S. 375	生产日期 Date:	2007-11-28
产品型号 Product model	KSD301	样品数量 Sample quantity:	5pcs
温度规格 Temperature specification	060/105PCB/RVG	壳体材料 Shell material:	<input checked="" type="checkbox"/> 塑料 PF <input type="checkbox"/> 陶瓷 Ceramic <input type="checkbox"/> 高温塑料 PPS
动作温度 Switching temperature	60+/-5℃	端子: Tab	<input type="checkbox"/> 4.8mm <input checked="" type="checkbox"/> 6.3mm <input type="checkbox"/> 180° <input checked="" type="checkbox"/> 90° <input type="checkbox"/> 45° <input type="checkbox"/> 40°
复位温度 Reset temperature	50+/-5℃	特殊要求 Special request:	<input type="checkbox"/> 大铝盖 Big Aluminum cap with fixed bracket <input checked="" type="checkbox"/> 小铝盖带活动环 Small aluminum cap with moveable bracket <input type="checkbox"/> 小铝盖不带活动环 Small aluminum cap without movable bracket

技术说明

Technology of specification

接触电阻 Resistance of contact	≤50 mΩ
绝缘电阻 Resistance of Insulated	Dc 500V >100 MΩ
耐压 Test voltage	>AC 1250V/1min
TUV 参数 Endurance Cycles tested	AC250V 10A 10,000 cycles
UL 参数 Endurance Cycles tested	AC250V 10A 100,000 cycles

测试数据

Test data

NO.	动作温度 (℃) switching temperature	复位温度 (℃) Reset temperature	接触电阻 (mΩ) Resistance of contact	耐 压 Test voltage	结论 conclusion
1	58.6	52.1	20.53	合格 (OK)	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p style="margin: 0;">合格</p> <p style="margin: 0;">(OK)</p> <p style="margin: 0; font-size: small;">超程电子(深圳)有限公司 产品可靠 性能稳定 合格</p> </div>
2	61.4	54.8	29.47	合格 (OK)	
3	64.8	54.2	18.36	合格 (OK)	
4	65.0	50.3	24.57	合格 (OK)	
5	64.8	52.4	30.22	合格 (OK)	

测试设备 Testing evice:

测温桶或恒温油槽 The testing thermostat of device or constant temperature of oil cup .

拟制(Prepared by): 赵学梅 审核 (Checked by): 刘清 审批 (Approved by): 胡建

ZJ10-017/A1

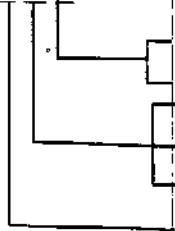
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技术规格

Technology Specification

1. 型号命名 (Type Designation)

9K3.301—X Y Z



M. 6.3x0.8 端子 flat push-on connectors

N. 4.8x0.8 端子 flat push-on connectors

C. 陶瓷壳体 ceramic material

P. 塑料壳体 PF (plastic) material

S. 高温塑料壳体 high-temp material

动作温度 Switching Temperature

40 ~ 150°C 塑料壳体 (40 ~ 150°C for KSD301XPZ)

40 ~ 180°C 陶瓷壳体 (40 ~ 180°C for KSD301XCZ)

40 ~ 200°C 高温塑料壳体 (40 ~ 200°C for KSD301XSZ)

2. 适用标准 (Relevant Standards)

UL873, CSA C22.2 NO 24-93

EN60730-1 2000+A11

EN60730-2-9:2002

GB14536.1-1998 idt IEC730-1

GB14536.10-1996 idt IEC730-2-9-1992

3. 电气性能 (Electric Performance):

额定电压 (Rated Voltage): AC250V 50~60Hz

额定电流 (Rated Current): 10A of Resistive Load

开关类型和单极断开 (Switch Type and Number of poles): 1 pole opener

IP-防护等级 (Protection Degree): IP00

动作类型 (Action Type): 1B

寿命 (Operation Cycles): TÜV 10,000

UL 100,000

所用绝缘材料 PTI 值 (Insulation material PTI value): 175V

接触电阻 (Resistance of Contact): $\leq 50\text{m}\Omega$ (Original State)

绝缘电阻 (Resistance of Insulated): $\geq 100\text{M}\Omega$ (DC500V Normality)

耐压 (Test Voltage): $\geq 1250\text{V}/1\text{min}$ (Normality)



4. 端子应能承受的轴向力 (Axis force that tab can endure)



作用于端子的轴向力 1min (如下表) 不应有位移和损坏。

Axis force that Tab can endure for 1min, and no deformation and damage.

推力 thrust force (N)	拉力 pull force (N)
80	70

5. 标志 (Marking)

在温控器壳体上应标注商标 , 额定电压 250V 电流性质交流 ~, 认证标志  Δ , 型号标志 KSD301, 动作温度标示应清晰、持久、耐用, 应而在主体及不可拆部体上。

On the thermostat, our trade mark ; voltage rating 250V AC; approved symbol  Δ . And item no.KSD301 should be carved. Switching temperature should be on the main part of the thermostat or on the part that cannot be torn up. The mark should be clear and durable.

6. 环境试验(Ambient test)

6.1 环境应力(Ambient resistance stress)

温控器在 $-10^{\circ}\text{C}\pm 2^{\circ}\text{C}$ 24h, $+60^{\circ}\text{C}\pm 5^{\circ}\text{C}$ 4h, 塑料件不应开裂、变形, 温控器仍能正常工作。

Under the situation of $-10^{\circ}\text{C}\pm 2^{\circ}\text{C}$ 24h, $+60^{\circ}\text{C}\pm 5^{\circ}\text{C}$ 4h, the plastic parts should be no breaking and deformation, and the thermostat can work normally.

6.2 潮湿试验(Humidity resistance test)

温控器在相对湿度 91~95% 温度在 $20-30(\pm 1^{\circ}\text{C})$ 潮湿箱内处理 48h 应能承受 AC 1250V, 频率 50Hz-60Hz 1min 不应产生闪络或击穿。

In the humid box of relative humidity 91-95%, temperature $20-30(\pm 1^{\circ}\text{C})$ for 48 hours, the thermostat should endure voltage of 1250V AC. When the frequency is 50Hz-60Hz 1min, flashover and bumping is not allowed.

7. 温控器的发热(Heat resistance test)

温控器在比工作温度低 $5^{\circ}\text{C}\pm 1^{\circ}\text{C}$ 环境条件下, 通 10.6A 电流, 它的端子温度不大于 230°C 。

The contact temperature of thermostat is not higher than 230°C in the circuit of 10.6A, at the temperature of less than $5^{\circ}\text{C}\pm 1^{\circ}\text{C}$ of working temperature.

