



旭程电子（深圳）有限公司

XC ELECTRONICS (SHENZHEN) CORP., LTD

产品承认书

SPECIFICATION FOR APPROVAL

客户:

CUSTOMER:

品名:

PRODUCT NAME: 突跳式温度控制器 (Thermostat)

型号规格:

MODEL DETAIL: KSD301-060℃ 电木壳体 6.3 平脚 250V10A 常闭

物料编码:

MATERIAL CODE: 501.060101007

动作温度:

复位温度:

SWITCHING TEMPERATURE: 60+/-3℃ RESET TEMPERATURE: 45+/-5℃

附注:

REMARK: 铝盖印字: UL CQC VDE B060

编制 PREPARED BY	审核 CHECKED BY	批准 APPROVED BY
Yanling Mo 25.2.15		

承认 SIGNATURE	审核 CHECKED BY	批准 APPROVED BY

供方签章:

SUPPLIER

日期:

DATE:

客户签章:

CUSTOMER:

日期:

DATE:

备注: 承认签章后请回复承认书 (或复印件) 给我司, 其余由贵司存档。

Note: After confirming and stamping, please return it to our company and filing.



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3.变更记录表（Change Record）

序号 NO.	日期 Date	变更记录 Change Description	版本 Version
1	2025.02.15	首次发行	A1
2			
3			
4			
5			
6			
7			
8			



4. 技术规格 (Technical specification)

4.1 适用范围 Scope of application

本公司的 301 系列突跳式温控器具有体积小、精度高、性能稳定、动作灵敏的优点, 广泛用于各类家用电热电器, 电子设备、电子仪器、机动设施的过热保护或温度控制: 如空调、热水器、微波炉、电烤箱、电火锅、投影仪、过胶机、基站机柜控温、发动机过热保护等等。

The KSD301 series of snap-action thermostats have the advantages of small size, high precision, stable performance, and sensitive action. They are widely used for overheat protection or temperature control of various household electric appliances, electronic equipment, electronic instruments, and mobile facilities: Such as air conditioner, water heater, microwave oven, electric oven, electric hot pot, projector, glue machine, base station cabinet temperature control, engine overheat protection, etc.

4.2 适用标准 Applicable standards.:

UL873, CSA C22.2 NO 24-93

EN60730-1 2016-10

EN60730-2-9:2019-07

GB14536.1-2022 idt IEC60730-1-2013

GB14536.10-2022 idt IEC60730-2-9-2015

GB/T22687-2008

4.3 电气性能 Electrical performance:

额定电压(Rated Voltage): AC250V/AC125V 50~60Hz

额定电流(Rated Current):

10A/15A/16A 阻性负载 (of Resistive Load)

开关类型 (Switch Type and Number of poles) :

单极断开 1 pole opener

IP-防护等级 (Protection Degree) : IP00

动作类型 (Action Type) : 2 型

认 证(Approved Symbol): CQC、VDE、 UL

寿 命 (Working life) :

参见认证证书(Refer to the certifications)

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(Withstand Voltage):1500V/1min(Normality)

泄漏电流(Leakage current): $\leq 0.25\text{mA}$



旭程电子(深圳)有限公司

XC ELECTRONICS (SHENZHEN) CORP., LTD

4.4 KSD301 系列温控器检测报告

Test report of thermostat KSD301 series

客户名称 Customer		生产日期 Date:	/
产品型号 Product model	KSD301 系列 501.060101007	样品数量 Sample quantity:	/pcs
温度规格 Temperature specification	9K3.060/1023PAB/18IG/ 9AAA/RQVB1-060/045	壳体材料 Material of shell:	☒ 塑料 PF ☐ 陶瓷 Ceramic ☐ 高温塑料 PPS
动作温度 Switching temperature	60+/-3℃	端子: Tab	☐ 4.8mm ☒ 6.3mm ☒ 180° ☐ 90 ° ☐ 45° ☐ 30 °
复位温度 Reset temperature	45+/-5℃	外形要求 Shape Requirements:	☐ 大铝盖 Big Aluminum cap with fixed ☒ 小铝盖带活动环 Small aluminum cap with moveable bracket ☐ 小铝盖不带活动环 Small aluminum cap without bracket

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	57~63	40~50	≤50	合格 (OK)	合格 (OK)
2	57~63	40~50	≤50	合格 (OK)	
3	57~63	40~50	≤50	合格 (OK)	
4	57~63	40~50	≤50	合格 (OK)	
5	57~63	40~50	≤50	合格 (OK)	

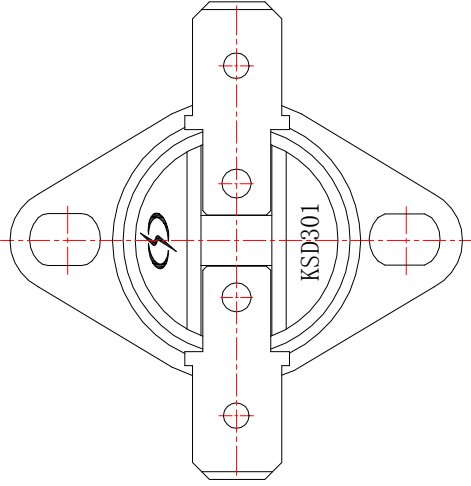
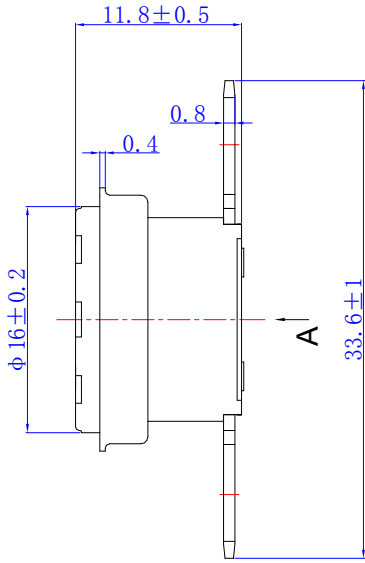
测试设备 Testing Device:

恒温测温桶: Thermostatic temperature measurement barrel;

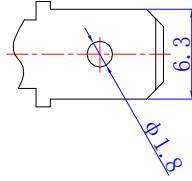
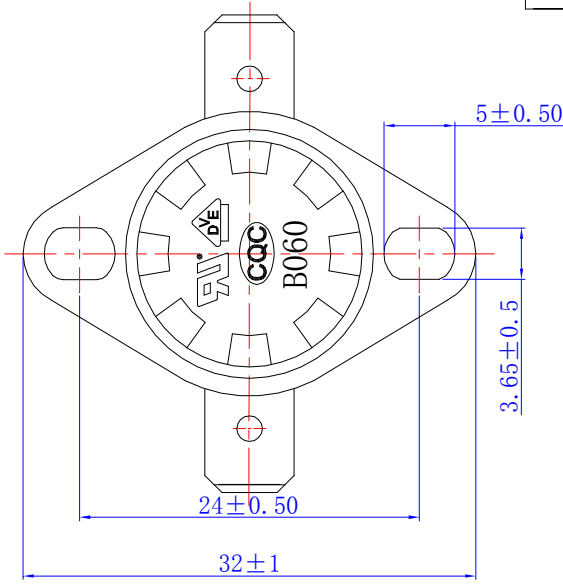
温度异常时以我方测温数据为准: \

It is subject to our test temperature when the temperature anomalies.

拟制(Prepared by): 莫艳玲 审核 (Checked by): 刘成斌 审批(Approved by): 涂耀清



A 向



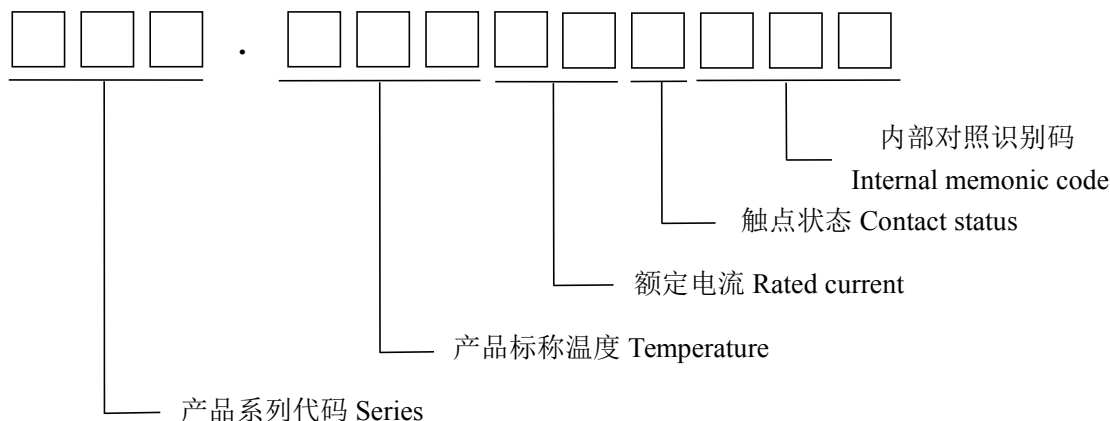
技术要求 (Technology Specification)

- 电气性能 (Electric Performance):
额定电压/电流 (Rated Voltage/Current): 250V10A
IP-防护等级 (Protection Degree): IP00级
寿命 (Operation Cycles): CQC、TUV 100000
VDE、UL 100000
接触电阻 (Resistance of Contact): $\leq 50\text{m}\Omega$
绝缘电阻 (Resistance of Insulated): $\geq 100\text{M}\Omega$
耐压 (Test Voltage): $\geq 1500\text{V}/1\text{min}$ (Normality)
2、温度:
动作温度: 60 ± 3 , Open temperature: 60 ± 3
复位温度: 45 ± 5 , Close temperature: 45 ± 5
3、适用标准 (Relevant Standards)
UL873, CSA C22.2 NO 24-93
EN 60730-1 2016-10
EN 60730-2-9:2019-07
GB14536.1-2022 idt IEC 60730-1-2013
GB14536.10-2022 idt IEC 60730-2-9-2015
4、证书号码 (Certificate No):
☒ CQC: CQC17002177202 (Phenolic)
☐ TUV: 50035898
☒ VDE: 40020934
☒ U L: E251340
5、客户代码:

类别	签字	日期	名称	KSD301外观图	图号	XC.WK-OP/K3.01-3055-17	
					数量	重量	投影
设计/绘图	莫艳玲	2025.02.15	料号	501.060101007			
审核	刘成斌	2025.02.15	材料	电木	比例	版本	共 1 页 第 1 页
批准	涂耀清	2025.02.15	9K3.060/1023PAB/181G/9AAA/RQVB1-060/045		2:1	A	
线性公差按GB/T1804-m级执行; 形位公差按GB/T1184-K级执行;				旭程电子(深圳)有限公司 XC ELECTRONICS (SHENZHEN) CO., LTD.			
线性基本尺寸 分段的极限偏 差数值	>0~3 ±0.1	>3~6 ±0.15	>6~30 ±0.2	>30~120 ±0.3	>120~400 ±0.5		



4.6 料号命名 (Name of material)



4.7 温控器动作方式(Action Forms)

- ☒ 室温下触点接通（nc），温度上升触点断开，温度降低触点恢复接通。
Normal close: Cut out at temperature rise ,cut in at temperature decreasing.
- ☐ 室温下触点接通（nc），温度下降触点断开，温度上升触点恢复接通。
Normal close: Cut out at temperature decreasing, cut in at temperature rise.
- ☐ 室温下触点断开（no），温度上升触点接通，温度降低触点恢复断开。
Normal opo: Cut in at temperature rise, cut out at temperature decreasing.
- ☐ 室温下触点断开（no），温度下降触点接通，温度上升触点恢复断开。
Normal opo: Cut in at temperature decreasing, cut out at temperature rise.
- ☐ 室温下触点接通（nc），温度上升触点断开，温度降低后需手动复位接通。
Normal close: Cut out at temperature rise,manual reset at temperature decreasing.
- ☐ 室温触点下接通（nc），温度上升触点断开，温度降低后触点不能接通。
Normal close: Cut out at temperature rise, The contact can not be connected after the temperature is reduced.

4.8 温控器的使用要求 (Requirements for use of thermostats)

4.8.1 温控器工作于相对湿度不大于 90%、无腐蚀、可燃性易爆气体和存在导电尘埃及强烈震动的环境中。

The thermostat Works in an environment where the relative humidity is not greater than90%, no corrosion, flammable explosive gas, conductive dust and strong vibrations .

4.8.2 温控器采用接触感温时,应使其铝盖紧贴被控器具的发热部位,并应在铝盖感温表面涂上导热硅脂或其他性能类似的导热介质。

When the thermostat adopts contact temperature sensing, the aluminum cover should be close to the heating part of the controlled appliance, and the temperature sensing surface of the aluminum cover should be coated with thermal grease or other similar thermally conductive media.



4.8.3 温控器通过接触液体或蒸汽感温时应有可靠的防渗、防漏措施, 以免液体渗入温控器内部发生意外。

The thermostat should have reliable anti-seepage and anti-leakage measures when it is in contact with liquid or steam to avoid the accident of liquid seeping into the thermostat.

4.8.4 保持封盖平整不可把封盖压塌或变形, 以免影响动作温度或改变温控性能。

Keep the cover flat and do not collapse or deform the cover, so as not to affect the action temperature or change the temperature control performance.

4.8.5 不可暴力安装, 避免使绝缘外壳破裂, 防止因绝缘性能降低而发生的意外或人身伤害。

Do not install violently, avoid rupturing the insulating shell, and prevent accidents or personal injury due to reduced insulation performance.

4.8.6 安装时不能随意折弯、扳直或左右摇晃接线端子, 否则将会影响电气连接的可靠性。

Do not bend, straighten, or shake the terminals freely during installation, otherwise the reliability of the electrical connection will be affected.

4.8.7 手动复位温控器在复位时力量不可过大, 以刚能按下复位柄为宜, 一般应小于 20N, 以免损坏温控器内部结构。

The strength should not be too large when press the reset button of the manual reset thermostat. It is better to just press the reset handle, which should generally be less than 20N to avoid damage to the internal structure of the thermostat

4.8.8 温控器的选用温度取决相关设施中耐温最低器件。

The choice of temperature for the thermostat depends on the lowest temperature-resistant device in the relevant facility.

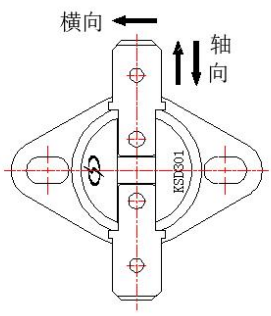
4.9 标志 (Marking):

温控器壳体底部标注商标  及型号标志 KSD301。动作温度应清晰标示印在铝盖上, 应持久、耐用。必要时认证标志、额定电压 250V/125V、电流性质交流~也可标示在铝盖上。

The bottom of the thermostat housing is marked with the trademark  and model KSD301. The operating temperature should be clearly marked and printed on the aluminum cover, which should be durable and durable. If necessary, the certification mark, rated voltage 250V / 125V, current nature AC ~ can also be marked on the aluminum cover.

4.10 端子能承受的最大力 (Maximum force the terminal can bear) :

端子受力标准 (Terminal force standard)

	端子尺寸 Terminal dimensions	4.8*0.5	4.8*0.8	6.3*0.8
	轴向推力 Axial thrust	≥60N	≥60N	≥80N
	轴向拉力 Axial tension	≥50N	≥50N	≥70N
	横向推力 Transverse thrust	≥10N 保持 5S		
作用于端子的轴向力 1min 不应有位移和损坏。 Axis force that terminal can endure for 1min. and no deformation and damage.				

在上述受力条件下无损害产品性能的损伤及影响产品使用的端子变形和绝缘体损坏。

There is no damage to the performance of the product under the above-mentioned stress conditions and the deformation of the terminal and the damage to the insulator that affect the use of the product.



4.11 包装与储存(Packaging and storage):

4.11.1 包装:

包装箱上有明确的公司名称及商标、公司地址及联系方式, 产品名称及型号、数量、出厂日期, 并有清晰的“小心轻放、向上、防潮、防晒”图标。如客户需要时可标注客户物料代码或其他要求。

The packaging box contain a clear company name and trademark, company address and contact information, product name and model, quantity, date of manufacture, and a clear "careful handling, upward, moisture, sunscreen" icon. If the customer needs, the customer's material code or other requirements can be marked.

4.11.2 储存

产品应贮存在通风良好、干燥、无腐蚀性气体的仓库中, 储存期 6 个月。

The product should be stored in a well-ventilated, dry, non-corrosive gas warehouse with a storage period of 6 months

5、可靠性测试(Reliability test).

5.1 试验条件 Test Conditions

环境温度 $20 \pm 10^{\circ}\text{C}$, 相对湿度 45%~85%, 使用额定电压 250V 频率 50Hz 的正弦波电源。

Ambient temperature $20 \pm 10^{\circ}\text{C}$, relative humidity 45% ~ 85%, use sine wave power supply with rated voltage 250V and frequency 50Hz.

5.2 温度特性 Temperature characteristics

把温控器放置在测温箱中, 当温度升至距离动作温度下限或复位上限 5°C 时等待温度平衡, 温度平衡后开始测试。测试炉内以空气作为加热介质, 以小于 $1\text{K}/\text{min}$ 的温度变化速率进行加温或降温, 通过温控器的电流不大于 20mA 。测温箱内温度传感器配合电脑程序进行控制或显示记录通断温度。

Place the thermostat in the temperature measuring box. When the temperature rises to 5°C from balance, and then start the test after the temperature is balanced. Air is used as the heating medium in the test furnace, and the heating or cooling is performed at a temperature change rate of less than $1\text{K} / \text{min}$, and the current through the thermostat is not more than 20mA . The temperature sensor in the temperature measuring box cooperates with the computer program to control or display and record the on-off temperature

5.3 寿命 Working Life

将温控器试样接上额定电压, 最大工作电流 (1.06 倍), 以 $6\text{次}/\text{min}$ 闭合时间 ≥ 1 秒的频率, 对温控器升、降温进行触头开闭试验。每开闭一次作为一个周期, 记录周期数, 当测试周期 ≥ 10 万次试验后温控器性能应符合以下标准要求:

Connect the temperature controller sample to the rated voltage, the maximum working current (1.06 times), and conduct the contact opening and closing test on the temperature controller to raise and lower the temperature at a frequency of 6 times / min closing time ≥ 1 second. Each opening and closing is used as a cycle, and the number of cycles is recorded. When the test cycle is $\geq 100,000$ tests, the performance of the thermostat should meet the following standards:

a. 动作温度对试验初始值的变化在 100°C 以下为 $\pm 5^{\circ}\text{C}$, 100°C 以上为 $\pm 5\%$ 。

The change of the operating temperature to the initial value of the test is $\pm 5^{\circ}\text{C}$ below 100°C , $\pm 5\%$ above 100°C

b. 绝缘电阻 $\geq 10\text{M}\Omega$ 以上、接触电阻 $\leq 50\text{m}\Omega$ 、耐压 $1500\text{V } 50\text{Hz}/\text{min}$, 不击穿、无闪络, 泄漏电流 $\leq 0.25\text{mA}$. insulatct resistance $\geq 100\text{M}\Omega$.

Insulation resistance $\geq 10\text{M}\Omega$, contact resistance $\leq 50\text{m}\Omega$, withstand voltage $1500\text{V } 50\text{Hz}/\text{min}$, no breakdown, no flashover, leakage current $\leq 0.25\text{mA}$. Insulatct resistance $\geq 100\text{M}\Omega$.



5.4 耐低温、高温和冷热冲击

Resistant to low temperature, high temperature and thermal shock.

5.4.1 耐低温 Low temperature resistance:

将温控器放入 $-20\pm 3^{\circ}\text{C}$ 的恒温箱中,待温度恒定后保持 24h,取出放置 2h 后进行 5.4.2 测试。

Put the thermostat in a $-20\pm 3^{\circ}\text{C}$ thermostat, keep it for 24h after the temperature is constant, take it out and place it for 2h, and then perform 5.4.2 test.

5.4.2 耐高温 High temperature resistance:

将温控器放入按温控器工作温度 1.05 倍设置的恒温箱中,温度恒定后放置 4h,取出放置 2h 后进行 5.4.3 测试。

Put the thermostat in the thermostat set according to the thermostat's working temperature of 1.05. After the temperature is constant, place it for 4h, and remove it and place it for 2h. Then perform the 5.4.3 test.

5.4.3 耐冷热冲击 Cold and Heat Impact resistance test:

将温控器放入 $-20\pm 3^{\circ}\text{C}$ 的恒温箱中放置 0.5h,取出放在室温环境 2-3 分钟后放入 5.4.2 设置的工作温度 1.05 倍的恒温箱中 0.5h,取出放在室温环境 2-3 分钟为 1 周期,连续进行 5 个周期。对样进行检测应符合 5.4.7 规定的性能指标:

Place the thermostat in a thermostat at $-20 \pm 3^{\circ}\text{C}$ for 0.5h, take it out at room temperature for 2-3 minutes, and then put it in a thermostat set at 5.4.2 with an operating temperature of 1.05 for 0.5h. One cycle is 2-3 minutes at room temperature, and 5 cycles are performed continuously. Testing the samples shall meet the performance indicators specified in 5.4.7:

5.4.4、耐潮湿 Moisture resistance

将温控器试件按 GB/T 2423.3-2016 规定放入温度 $40\pm 2^{\circ}\text{C}$ 、相对湿度 90-96% 的恒温、恒湿箱内 48h,在箱内测试绝缘电阻与电气强度应符合标准要求。取出放置 2h 后对试件按 5.4.7 的规定进行性能指标检测应符合要求。

Put the test piece of the thermostat into a constant temperature and constant humidity box with a temperature of $40 \pm 2^{\circ}\text{C}$ and a relative humidity of 90-96% for 48h according to the provisions of GB/T 2423.3-2016. The insulation resistance and electrical strength in the box should meet the standard requirements. After taking out and placing for 2h, the performance test of the test piece according to the provisions of 5.4.7 and meet the requirements.

5.4.5 耐盐雾 salt spray resistance test:

将温控器按 GB/T2423.17-2008 之规定放入盐雾试验机中 48h,然后检查有没有发生用布擦不掉的锈蚀。

Put the thermostat into the salt spray test machine for 48h according to the provisions of GB/T2423.17-2008, and then check whether there is rust that cannot be wiped off with cloth.

5.4.6 震动及跌落试验 Vibration and Drop test:

按 GB/T2423-10-2019 之规定把温控器固定在有充分强度的板上,以上下、前后、左右各方向施以频率 20-50Hz,振幅 3mm 来回 5 分钟历时 1 小时震动测试后进行跌落试验。将温控器试样从 20cm 高自由跌落在水泥地、石板或钢板等坚固的水平面上,分别作上、下、左、右、前、后各落一次。完成后,检测样品应符合 5.4.7 规定的性能指标:

According to the provisions of GB/T2423-10-2019, fix the thermostat on a board with sufficient strength, and apply a frequency of 20-50Hz, an amplitude of 3mm to and fro for 5 minutes, and a drop test after 1 hour of vibration test. Drop the thermostat sample freely from 20cm high on a solid horizontal surface such as concrete floor, stone slab or steel plate, and drop it up, down, left, right, front and back respectively. After completion, the test sample shall meet the performance indicators specified in 5.4.7:



5.4.7 温控器各项测试后应符合如下要求 The following requirements shall be met after testing:

a. 动作温度对试验初始值的变化在 100℃ 以下为 $\pm 3^{\circ}\text{C}$, 在 100℃ 以上为 $\pm 3\%$;

The change of the operating temperature to the initial value of the test is $\pm 3^{\circ}\text{C}$ below 100 $^{\circ}\text{C}$ and $\pm 3\%$ above 100 $^{\circ}\text{C}$;

b. 绝缘电阻: $10\text{M}\Omega$ 以上

Insulation resistance $\geq 10\text{M}\Omega$;

c. 带电金属部件与非带电金属部件之间能承受 1500V 50Hz/1min 的耐压检测, 不击穿, 无闪络、泄漏电流 $\leq 0.25\text{mA}$;

Between the charged metal parts and the non-charged metal parts can withstand 1500V 50Hz / 1min withstand voltage test, no breakdown, no flashover, leakage current $\leq 0.25\text{mA}$

d. 端子、铝盖无松动, 绝缘外壳无破损、裂纹、变形, 无明显锈蚀

No loosening of terminals and aluminum cover, no damage, cracks and deformation of the insulating shell, no obvious corrosion:

CERTIFICATE OF COMPLIANCE

Certificate Number E251340
Report Reference E251340-20041130
Issue Date 2020-MAY-29

Issued to: XC ELECTRONICS (SHENZHEN) CORP LTD
BLDG 11
HEAO HENGANG, JINYUAN INDUSTRY ZONE
SHENZHEN
GUANGDONG 518115 CHINA

This certificate confirms that
representative samples of

COMPONENT - TEMPERATURE-INDICATING AND -
REGULATING EQUIPMENT
SEE ADDENDUM PAGE

Have been investigated by UL in accordance with the
component requirements in the Standard(s) indicated on
this Certificate. UL Recognized components are incomplete
in certain constructional features or restricted in
performance capabilities and are intended for installation in
complete equipment submitted for investigation to UL LLC.

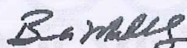
Standard(s) for Safety: UL 873 Temperature-Indicating and -Regulating Equipment
CSA C22.2 No. 24 Temperature-indicating and -regulating
equipment

Additional Information: See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Recognized Component Mark. Only
the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified
and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



Bruce M.hrenholz, Director North American Certification Program
UL LLC

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contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



CERTIFICATE OF COMPLIANCE

Certificate Number E251340
Report Reference E251340-20041130
Issue Date 2020-MAY-29

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Component - Temperature -Indicating and -Regulating Equipments, Models KSD301f/b D or E or F or G and KSD301A.

B. Mahlenz

Bruce Mahlenz, Director North American Certification Program
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>





产品认证证书

证书编号: CQC17002177202

发证日期: 2023 年 12 月 28 日
有效期至: 2028 年 12 月 27 日

委托人名称 旭程电子(深圳)有限公司
及注册地址 深圳市龙岗区横岗镇荷坳金源工业区第 11 栋 1-2 楼

制造商名称 旭程电子(深圳)有限公司
及注册地址 深圳市龙岗区横岗镇荷坳金源工业区第 11 栋 1-2 楼

生产企业名称 旭程电子(深圳)有限公司
及生产地址 深圳市龙岗区横岗镇荷坳金源工业区第 11 栋 1-2 楼

产品名称和系列、规格、型号 温控器
KSD301 系列 250V~/220V~/125V~/110V~ 16A/15A/10A 动作温度范围: 0°C-180°C 2.B 型
100000 周期 自动复位 塑料壳体 污染等级 2 PTI175 (KSD301 系列产品均使用 KSD301 命名,只
是标示的动作温度值不同予以区分)

产品标准和技术要求 GB/T 14536.1-2022;GB/T 14536.10-2022

认证模式 产品型式试验+初次工厂检查+获证后监督

上述产品符合 CQC11-448321-2016 认证规则的要求, 特发此证。
本证书为变更证书, 证书首次颁发日期: 2017 年 09 月 18 日
证书有效期内本证书的有效性依据发证机构的定期监督获得保持。

可通过扫描下方二维码或登录国家认监委网站 (www.cnca.gov.cn) 查验证书信息



签发:

谢肇煦



中国质量认证中心



<http://www.cqc.com.cn>

中国·北京·南四环西路188号9区 100070

电话: +86 10 83886666

C 0573560

ZEICHENGENEHMIGUNG MARKS APPROVAL

XC Electronics (Shen Zhen)
Corp. Ltd.
Bldg. 11, Jingyuan Ind. Zone
Henggang Town, Longgang Distr.
518115 Shenzhen
Guangdong China

ist berechtigt, für ihr Produkt /
is authorized to use for their product

Regel- und Steuergerät, temperaturabhängig
Control, temperature sensing

die hier abgebildeten markenrechtlich geschützten Zeichen
für die ab Blatt 2 aufgeführten Typen zu benutzen /
the legally protected Marks as shown below for the types referred to on page 2 ff.



Geprüft und zertifiziert nach /
Tested and certified according to

DIN EN 60730-1 (VDE 0631-1):2017-05; EN 60730-1:2016

EN 60730-1:2016/A1:2019

DIN EN IEC 60730-2-9 (VDE 0631-2-9):2021-01; EN IEC 60730-2-9:2019+A1:2019+A2:2020

Das Produkt erfüllt auch die Anforderungen nach /
The product also fulfills the requirements of

IEC 60730-1:2013

IEC 60730-1:2013/AMD1:2015

IEC 60730-2-9:2015

IEC 60730-2-9:2015/AMD1:2018

IEC 60730-2-9:2015/AMD2:2020

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Zertifizierungsstelle / Certification

B. Megerle

VDE Zertifikate sind nur gültig bei Veröffentlichung unter:
VDE certificates are valid only when published on:

VDE

Aktenzeichen: 5003281-4510-0001 / 278849

File ref.:

Ausweis-Nr. 40020934

Certificate No.

Weitere Bedingungen siehe Rückseite und Folgeblätter /
further conditions see overleaf and following pages

Offenbach, 2007-05-14

(letzte Änderung / updated 2021-06-16)

<http://www.vde.com/zertifikat>
<http://www.vde.com/certificate>

Blatt 1
Page



VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Blatt /
Certificate No. Page
40020934 2

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder

XC Electronics (Shen Zhen) Corp. Ltd., Bldg. 11, Jingyuan Ind. Zone, Henggang Town, Longgang Distr., 518115
SHENZHEN, Guangdong, CHINA

Aktenzeichen / File ref.

5003281-4510-0001 / 278849 / TL3 / KOB

letzte Änderung / updated

2021-06-16

Datum / Date

2007-05-14

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40020934.

This supplement is only valid in conjunction with page 1 of the Certificate No. 40020934.

Regel- und Steuergerät, temperaturabhängig Control, temperature sensing

Typ(en) / Type(s)

KSD301 *****

Zweck des RS

Purpose of control

Temperaturregler

Thermostat

Weitere Angaben siehe Anlage

Further information see appendix

100, 100A, 200, 300 vom 2021-06-16

100, 100A, 200, 300 dated 2021-06-16

Anmerkung

Die mit "*" gekennzeichneten Stellen sind freigehalten zum Einfügen der Angabe der Ausführungsform des RS gemäß Hersteller-Typenschlüssel, welcher in der Anlage 100A dieser Zeichengenehmigung erläutert ist.

Remark

Positions marked as "" are kept free for insertion of the control style information according to the manufacturer's type reference which is explained in the appendix 100A of this Marks Approval.*

Dieser Zeichengenehmigungs-Ausweis bildet eine Grundlage für die EG-Konformitätserklärung und CE-Kennzeichnung durch den Hersteller oder dessen Bevollmächtigten und bescheinigt die Konformität mit den grundlegenden Schutzanforderungen der **EG-Niederspannungsrichtlinie 2014/35/EU**.

*This Marks Approval is a basis for the EC Declaration of Conformity and the CE Marking by the manufacturer or his agent and proves the conformity with the essential safety requirements of the **EC Low-Voltage Directive 2014/35/EU**.*

VDE Prüf- und Zertifizierungsinstitut GmbH

VDE Testing and Certification Institute

Fachgebiet TL3

Section TL3



VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder

XC Electronics (Shen Zhen), Corp. Ltd., Bldg. 11, Jingyuan Ind. Zone, Henggang Town, Longgang Distr., 518115 Shenzhen, Guangdong China

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40020934.

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Anlage /

Appendix

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Altzeichen / File ref.

5003281-4510-
0001/278849/TL3/KOB

letzte Änderung / updated

2021-06-16

Datum / Date

2007-05-14

Regel- und Steuergerät, temperaturabhängig Control, temperature sensing

Typ(en) Type(s)	KSD301 *****
Zweck des RS Purpose of control	Temperaturregler Thermostat
Bemessungsspannung Rated voltage	AC 110 V / 125 V / 220 V / 250 V
Bemessungsstrom Rated current	a) 10 A b) + c) 10 A / 15 A / 16 A
Merkmale der automatischen Wirkungsweise Features of automatic action	a) 1.C b) + c) 2.B
Anzahl der automatischen Zyklen Number of automatic cycles	a) 100.000 b) 20.000 c) 10.000
Temperaturgrenzen des Schaltkopfes Temperature limits of the switch head	a) Tmin 0 °C; Tmax 150 °C b) Tmin 0 °C; Tmax 170 °C c) Tmin 0 °C; Tmax 230 °C
Betriebswerte Operating values	a) 0 – 150 °C b) 0 – 150 °C ± 5 K c) 0 – 210 °C ± 8 K
Konstruktion Construction	eingebautes RS incorporated control
Fühlerart Kind of sensing element	Bimetall bimetal
Rückstell-Eigenschaften Reset characteristic	automatisch automatically



VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder

XC Electronics (Shen Zhen), Corp. Ltd., Bldg. 11, Jingyuan Ind. Zone, Henggang Town, Longgang Distr., 518115 Shenzhen, Guangdong China

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40020934

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Appendix

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Altensichen / File ref.

5003281-4510-

0001/278849/TL3/KOB

letzte Änderung / updated

2021-06-16

Datum / Date

2007-05-14

Verschmutzungsgrad

2

Degree of pollution

Überspannungskategorie

II

Overvoltage category

Anschluss

Type of terminal

Flachstecker 6,3 x 0,8 mm; 4,8 x 0,8 mm

a) + b) Messing

c) Stahl

Tab's 6,3 x 0,8 mm; 4,8 x 0,8

a) + b) Brass

c) Steel

Schalterart

Contact configuration

einpoliger Öffner

SPST n.c.

Kriechstromfestigkeit

Tracking resistance

siehe Anlage 300

see appendix 300

Glühdrahtprüfungen

Glow wire tests

siehe Anlage 300

see appendix 300

Anmerkung

Remark

- Der Berührungsschutz muss durch die sachgemäße Montage sichergestellt werden.

- Zwischen unter Spannung stehenden Teilen und der Montagefläche: Basisisolierung.

- The protection against electric shock must be guaranteed by appropriate mounting.

- Between live parts and mounting surface: basic insulation.



