

### 产品描述 Description

3CT 系列为可自动复位、小型化的温控器产品，主要用双金属片来感应电流、温度，当出现异常电流或温升时，达到设定阈值点，可安全断开/闭合电路。

3CT Series Auto Reset miniature thermostat is one of the smallest thermostats manufactured in the world. The main part is the miniature bimetallic strip that can sense both current and temperature. When the temperature of the bimetal disc reaches its predetermined calibration point, thermostat takes function, no matter the temperature rise is caused by current or outer heating or both of them.

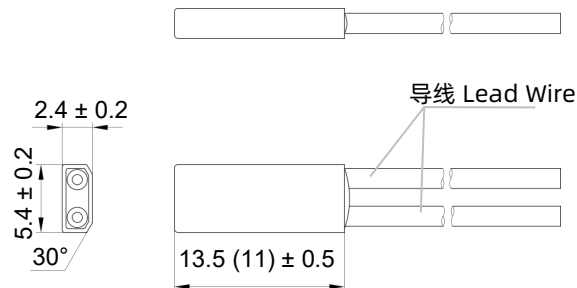
### 关键特性 Features

- 小型化 Miniature Size
- 常开或常闭均可  
Available in Normal Open and Normal Closed
- 低接触电阻 Low Contact Resistance
- 优质双金属片，反应快速 Snap Action Disc
- 适用于大多数浸渍工艺  
Suitable for Most Impregnation Process
- 可提供定制的引线和镀镍端子  
Customized Leads and Nickel Strips Available
- 提供各种绝缘套管 Various Insulating Sleeves Available
- 符合RoHS与REACH要求 RoHS & REACH Compliant

### 应用领域 Applications

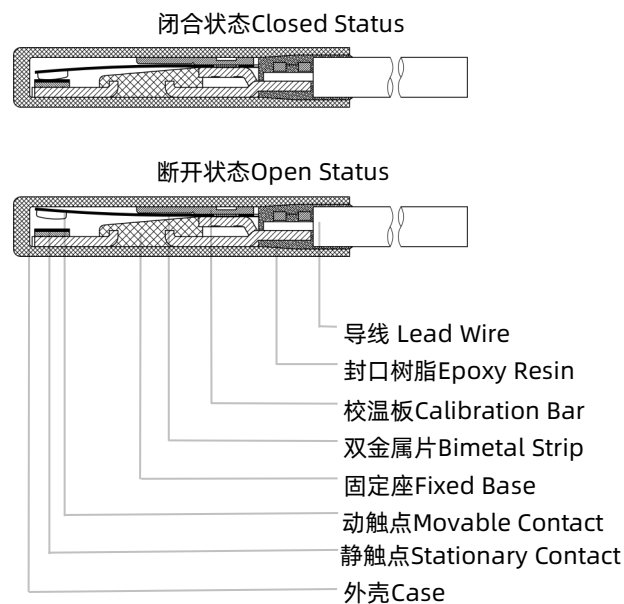
- 电池组 Battery Packs
- 电动机 Motors
- 变压器 Transformers
- 加热器具 Heating Appliances
- 电动工具 Power Tools
- 螺线管 Solenoids

### 尺寸图 Dimensions (mm)



备注：导线长度及规格可为客户定制，图示仅为参考。  
Note: Lead wire length and style can be customized  
One diagram for reference only





### 结构图 Structure Diagrams



### 认证信息 Agency Approvals

认证机构 Certification	认证标准 Standard	认证号 File No.
UL US	UL60730-1 UL60730-2-22	E516554
	UL60730-1 UL60730-2-9	E516553
TÜV Rheinland	EN 60730-1 EN 60730-2-22	R 50481203
	EN 60730-1 EN 60730-2-9	R 50480598
CQC	GB/T14536.1-2008 GB/T14536.3-2008	CQC20002266233
	GB/T14536.1-2008 GB/T14536.10-2008	CQC20002266231

产品特性 Specifications

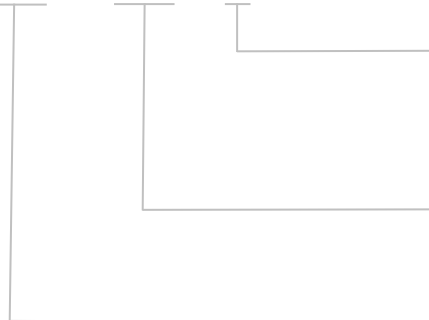
	寿命 Cycle Life	电压 Voltage	电流 Amps	温度范围 Temperature Range				
	循环次数 Cycles	(V)	(A)	(°C)	UL	CUL	TUV	CQC
触点容量 Contact Capacity	≥ 10,000	AC 277	3	≤ 155	●	●	●	●
	≥ 10,000	AC 125	5	≤ 155	●	●		
	≥ 10,000	DC 24	5	≤ 155	●	●	●	●
	≥ 10,000	DC 12	8	≤ 155			●	●
接触电阻 Contact Resistance	≤ 30 mΩ							
动作温度范围 Operating Temperature	30 °C ~ 155 °C , 每5 °C 一档 30 °C to 155 °C in increments of 5 °C							
长期工作温度 Long term Service Temperature	-20 °C ~ 160 °C							
绝缘强度 Dielectric Strength	1700 V.r.m.s. 60 Hz, 1分钟, 端子与外壳间 1700 V.r.m.s. 60 Hz, 1 minute, Lead to case							
导线规格 Lead Wire Size	UL3266 22 AWG 300 V (其他规格可定制) other wire size is also available							

温控器 Thermostat

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产品选型规则 Part Numbering System

3CT - 125 - B



**端子类型 Terminal Type**

见表(See Table) 3CT-2

缺省 (Default) /A /B / C / D/ E / F / G

缺省和A代指同一端子类型A (Default and A are the same)

**动作温度 Operating Temperature**

See Table (见表 ) 3CT-1

**系列 Series**

3CT

电流温度保护型: 电流值 (AC) + CT ( Current Temperature Protect)

Current temperature protection type: current value (AC) + CT ( Current Temperature Protect)

表(TABLE) 3CT-1 动作/复位温度 Opening / Closing Temperature

型号 Model	动作温度 Opening Temperature	复位温度 Closing Temperature	型号 Model	动作温度 Opening Temperature	复位温度 Closing Temperature
	(°C)	(°C)		(°C)	(°C)
3CT-030	30	20	3CT-095	95	65
3CT-035	35	25	3CT-100	100	70
3CT-040	40	30	3CT-105	105	70
3CT-045	45	35	3CT-110	110	75
3CT-050	50	40	3CT-115	115	75
3CT-055	55	40	3CT-120	120	80
3CT-060	60	45	3CT-125	125	85
3CT-065	65	45	3CT-130	130	90
3CT-070	70	50	3CT-135	135	90
3CT-075	75	50	3CT-140	140	95
3CT-080	80	55	3CT-145	145	100
3CT-085	85	60	3CT-150	150	100
3CT-090	90	60	3CT-155	155	105

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表(TABLE) 3CT-2 端子类型 Terminal Type

代号 Code	图示及简述 Drawing and Description	代号 Code	图示及简述 Drawing and Description
A	<p>镀锡铜线Tinned Copper 绝缘层Insulation</p>	B	<p>镀锡铜线Tinned Copper 绝缘层Insulation</p>
C	<p>镀镍端子Nickel Plated Steel Terminal 镀锡铜线Tinned Copper 热缩套管Heat Shrink Tube 绝缘层Insulation</p>	D	<p>镀锡铜线Tinned Copper</p>
E	<p>镀镍端子Nickel Plated Steel Terminal 热缩套管Heat Shrink Tube</p>	F	<p>端子Terminal</p>

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代号 Code	图示及简述 Drawing and Description	代号 Code	图示及简述 Drawing and Description
G			

## 注意事项 Attention

### 使用 Usage

1. 这些器件不能作为服务或维修元件使用，应由原设备制造商严格使用。

本产品不具有防爆等级，不应用于存在易燃蒸汽或粉尘的任何应用场合。该装置的寿命终止故障可能会导致开路或闭路状态，因此，原始设备制造商必须按照机构要求串联应用寿命终止保护。

These devices are not intended for use as service or repair components, strictly for use by Original Equipment Manufacturer. This product is not rated as explosion proof and should not be applied in any application where flammable vapors or dust is present. End of life failure of this device may result in either open or closed circuit condition, and as such, OEMs must apply end of life protection in series, per agency requirements.

2. 用户全权负责本产品在最终产品或系统中的正确设计、应用和功能。用户必须从温度设置、机械和电气寿命周期、电气负载和环境条件等方面评估这些设备在其应用中的适用性。

Users are solely responsible for proper design, application and function of this product in the end product or system.

Users must evaluate the suitability of these devices in their application with respect to Temperature Settings, Mechanical and Electrical Life Cycles, Electrical loads and Environmental conditions.

3. 使用环境：大气压力范围80 kPa ~ 106 kPa，相应的海拔高度为2000米 ~ - 500米。

When atmosphere press is from 80 kPa to 106 kPa, the related altitude shall be from 2000 meter to - 500 meter.

## 安装 Installation

1. 应使本产品尽可能贴近或接近被保护部件。

如电机应嵌入定子线圈上端的线圈中，如有条件，应对电机作温度场测定，以确定温度最高点。

The product should be as close to the protected parts as possible.

For example, in the motor, the product should be embedded in the upper end of the motor stator coil. If the test conditions are met, the temperature field of the motor should be measured to determine the highest temperature point.

2. 本产品在安装过程中，禁止用重力敲击，安装处不得挤压产品，以免使产品外壳变形，这将严重影响产品的保护性能。

During the installation of the product, it is forbidden to strike by gravity, and the product shall not be extruded at the installation position, so as to avoid deformation of the product shell, which will seriously affect the protection performance of the product.

## 更换 Replace

本产品是不可修复的产品。为安全起见，应更换为等效产品，并以相同方式安装。

The product is a non-repairable product. For safety sake, it shall be replaced by an equivalent part and mounted in the same way.

## 存储 Storage

不要在高温、高湿度或腐蚀性气体环境下储存本产品，以免影响导线的可焊性或接触电阻。本产品应在收到货物后一年内用完。

Do not store the product at high temp., high humidity or corrosive gas environment, avoid influencing the solder-ability or contact resistance of the lead wires. The product shall be used up within 1 year after your receiving goods.

## 警告 Warnings

材料损坏和外壳发热的危险 Risk of Material Damage and Hot Enclosure

- 产品的侧面板可能很热，请等产品冷却后再触摸。

The product's side panels may be hot, allow the product to cool before touching.

- 请严格按照安装说明进行安装，包括力值的设置。未遵守这些指示可能会导致严重的人身伤害或设备损坏。触电，爆炸或弧闪的危险

Follow proper mounting instructions including force values. Failure to follow these instructions can result in serious injury, or equipment damage. Hazard of Electric Shock, Explosion or Arch Flash

- 在安装或使用此产品之前，请断开所有电源。

Verify all connections and replace all covers before turning on power. Failure to follow these instructions will result in death or serious injury.

- 在打开电源之前，确认所有连接及必要防护。未遵守这些指示将可能会导致死亡或重伤。

Disconnect all power before installing or working with this equipment.

## 包装信息 Packaging Information

散装 (以2AN型, L1=L2=70mm为例)

Bulk (take type 2AN, L1 = L2 = 70mm as an example)

项目 Item		PE 袋 PE Bag	PE 袋 PE Bag	纸箱 Carton
尺寸 Dimensions	(mm)	150 × 85	220 × 190	216 × 216 × 196
尺寸 Quantity	(PCS)	100	500	5000
毛量 (kg) Gross Weight (kg)				6.2 ± 10 %

