

**KSD303系列突跳式化霜温控器**是小型带外壳及防水保护的双金属片温控器；单刀单掷，工作于阻性负载下。温控器密封于耐寒、阻燃的塑料管或密封胶中，可工作于水中；广泛应用于风冷式无霜电冰箱中作为加热补偿开关或自动除霜控制开关。

按照不同的结构，KSD303系列划分为2个子系列，分别是：KSD303-A、KSD303-D。

KSD303 series snap-action defrost thermostat is a kind of miniature waterproof and hermetically seal bimetal thermal protector. It is of single-pole single-throw structure and works under resistive load. Thermostat is enveloped in cold-resistant and flame-retardant plastic tube or sealing gum for possible underwater applications. The product series is widely used as heating compensated switch or automatic defrosting control switch in air-cooling frostless refrigerators.

According to different structures, KSD303 series is divided into two sub series as: KSD303-A, KSD303-D.

### »» 主要技术参数/BASIC TECHNICAL PARAMETER

◎ 额定电流（阻性） Rated Current: 3A, 6A, 10A (resistive)

◎ 绝缘电阻 Insulation Resistance

用DC500V绝缘电阻表加额定电压DC500V测定大于100MΩ。

With a DC 500V megger, borne DC 500V, the tested value is over 100MΩ.

◎ 电气强度（水中） Dielectric Strength (in water)

在水中，温控器的导线端子与塑料套之间能承受接近正弦波的1500V 50Hz交流电压历时一分钟的耐压试验，不击穿，无闪络。

In water, parts between the terminals and airproof wrap can bear 1500V 50Hz AC current, which is nearly sine wave, for one minute as bearing test. Resulted no breakdown, no flashover.

◎ 耐寒温度 Cold-resistant Temperature: -40°C

◎ 温度特性类型 Class of Temperature Characteristics

常闭、常开 Normal close, normal open

◎ 最高动作温度及耐热温度 Max. OT and Tmax

	KSD303-A	KSD303-D
最高动作温度 Max. OT	20°C	40°C
耐热温度 Tmax	60°C	90°C

◎ 最小温差 Min. diff: 8°C

◎ 产品温度精度（公差） Tolerance of Temperature

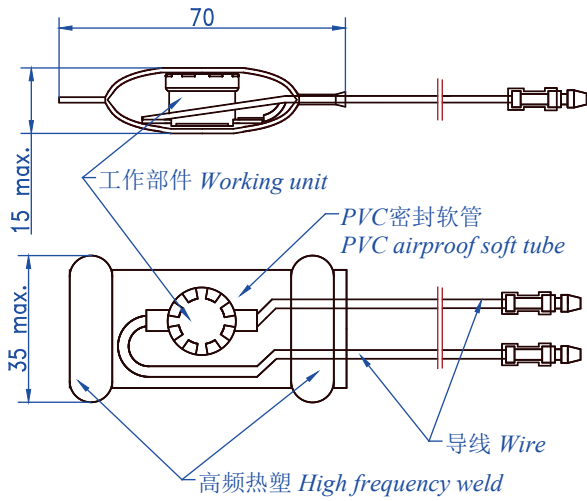
OFF			ON		
一般的精度 Common tolerance	较高的精度 Preferable tolerance	极限的精度 Limit of the tolerance	一般的精度 Common tolerance	较高的精度 Preferable tolerance	极限的精度 Limit of the tolerance
±3.5°C	±3°C	±2.5°C	±6°C	±5°C	±4°C

◎ 引线及端子 Lead wires and Terminals

根据客户要求。

According to the client's request.

»» KSD303-A子系列/KSD303-A SUB-SERIES



**KSD303-A安全认证/SAFETY CERTIFICATE OF KSD303-A**

电气参数 Rates	工作寿命 Cycles	最高OT Max. OT	认证 Certificate
250V 6A	10,000	25°C	TUV: R50177012 CQC: 08002022704
250V 5A/125V 7A	10,000	15°C	UL: E137238, Sec. 3

### 》》 KSD303-D子系列/KSD303-D SUB-SERIES



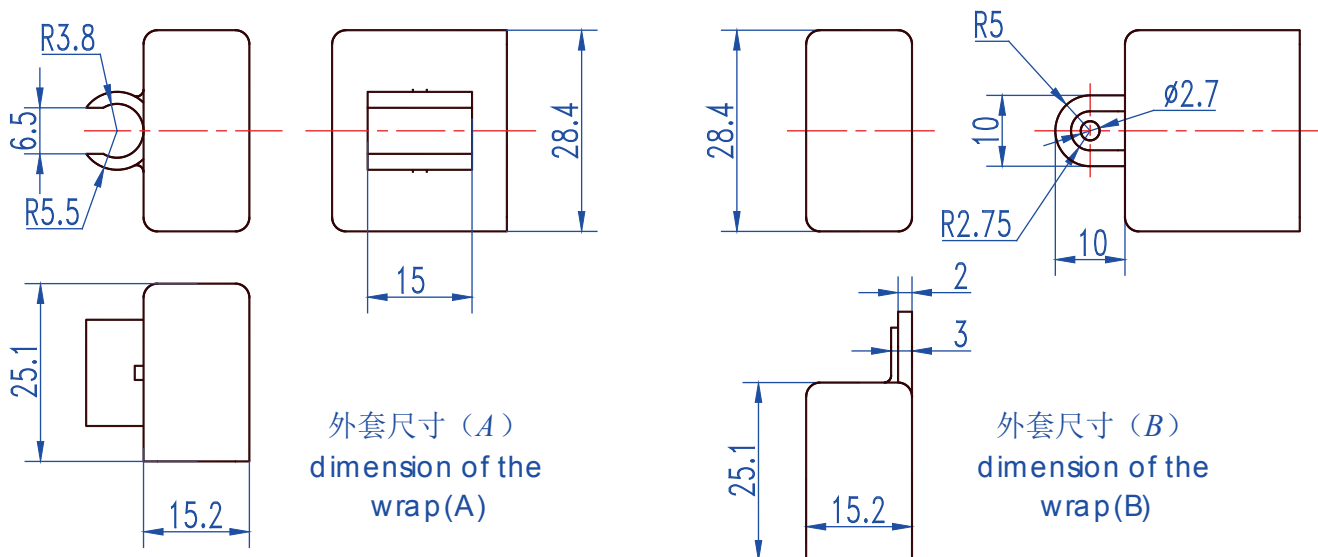
### 》》 结构示意图及接线方式/STRUTURE SKETCH & MEANS OF CONNECTION

		结构示意图 Structure sketch	接线方式 Means of connection
并联 Parallel connection	A1	<p>塑料外套 Plastic wrap</p> <p>密封剂 Airproof epoxy</p>	<p>KSD301 温控器 KSD301 thermostat</p> <p>导线 Wire</p> <p>熔断器 (可选) Fuse (choice)</p>
	B1	<p>塑料外套 Plastic wrap</p> <p>密封剂 Airproof epoxy</p>	
串联 Series connection	A2	<p>塑料外套 Plastic wrap</p> <p>密封剂 Airproof epoxy</p>	<p>KSD301 温控器 KSD301 thermostat</p> <p>导线 Wire</p> <p>熔断器 Fuse</p>
	B2	<p>塑料外套 Plastic wrap</p> <p>密封剂 Airproof epoxy</p>	

### 安全认证/SAFETY CERTIFICATE

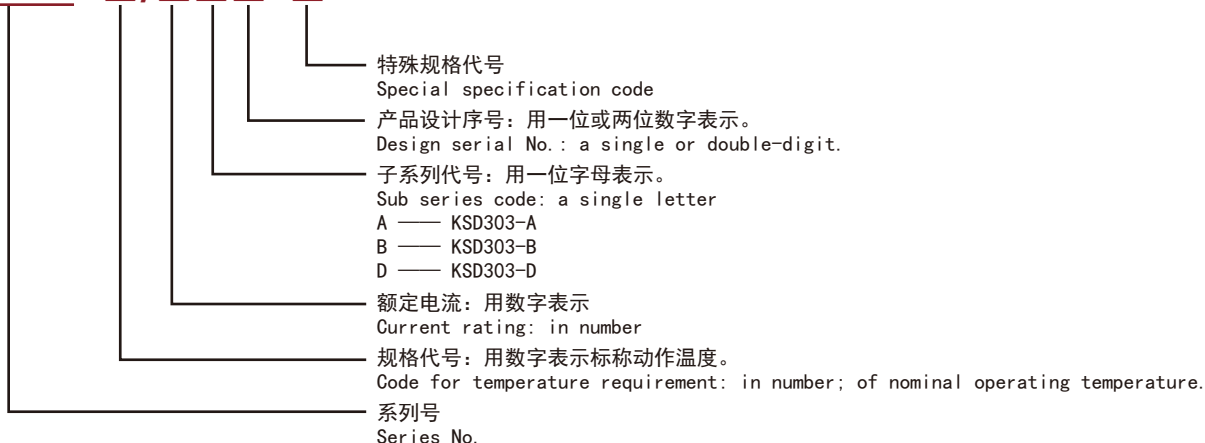
电气参数 Rates	工作寿命 Cycles	认证 Certificate
250V 10A	10,000	CQC: 02002001309
250V 10A	10,000	TUV: R50097997

### 外形尺寸/SHAPE AND DIMENSION



### 型号意义/NOMENCLATURE

**KSD303-□/□□□-□...**



### 安装和使用说明/INSTALLATION AND DIRECTION FOR USE

温控器采用接触感温时, 应使封盖的一面贴紧被控器具的安装部位;

In the event that the thermostat is employing contact temperature sensing, its cover shall be adhered to the installation position of a controlled appliance.

不可把封盖顶部压塌或使其变形, 以免动作温度变值或影响其他性能;

The cover shall show no cave-in or deformation resulting in operating temperature variation or bad influence on other performances.

工作部件必须避免受到过大的力以防止出现壳体开裂、端子变形、导线脱落等现象;

No excessive force shall be applied to working parts, to prevent them from defects such as cracking base, distorted terminal and wire lead coming off.

在安装使用过程中, 不能把塑封套弄破。

The plastic envelope must be kept intact in the course of installation and usage.