



BTT シリーズ 温度ヒューズ

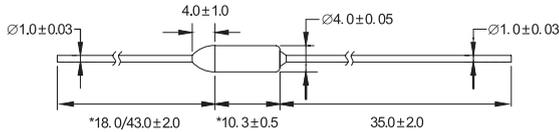
BTT系列温度保险丝 BTT SERIES THERMAL FUSE



关键特性 KEY FEATURES OF THE PRODUCT

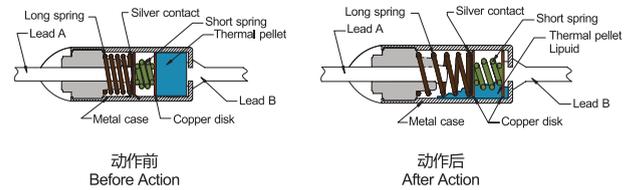
- 有机化合物型
Product of organic compound type
- 温度带丰富 (73-240C)
Temperature band is rich (73-240C)
- 动作温度精准
Accurate action temperature
- 一次动作保护, 不可恢复
Not recoverable

尺寸 DIMENSIONS(MM)



备注: 导线长度可根据客户要求定制
Note: Wire length can be customized according to customer requirements.

工作原理 WORKING PRINCIPLE



当温度保险丝本体及周边环境温度上升至有机化合物熔点时, 化合物由固态变为液态, 在弹簧弹力作用下, 推开触点起到切断电流作用。
When fuse body and its ambience temperature rises to the melting point of the organic compound, the compound changes from solid state to liquid state. Under the action of spring elasticity, the contact is pushed off to cut off the current.

参数表 PARAMETER LIST

序号 No.	料号 PN	额定 动作温度	动作 温度	保持 温度	极限 温度	额定 电流	额定 电压	认证 certification					
		Tf (°C)	Operating temperature (°C)	Th (°C)	Tm (°C)	Rated Current (A)	Rated Voltage (V)	UL/C-UL	CCC	TUV	PSE	VDE	KC
1	BTT0**073	73	69±2	50	150	10A 15A	250VAC	●	●	●	●	●	●
2	BTT0**077	77	72±2	50	150	10A 15A	250VAC	●	●	●	●	○	●
3	BTT0**084	84	80±3	50	150	10A 15A	250VAC	●	●	●	●	○	●
4	BTT0**094	94	91+3-2	65	150	10A 15A	250VAC	○	●	●	●	○	●
5	BTT0**099	99	95±2	71	150	10A 15A	250VAC	●	●	●	●	●	●
6	BTT0**113	113	108+2-3	85	150	10A 15A	250VAC	●	●	●	●	●	●
7	BTT0**121	121	117±3	95	160	10A 15A	250VAC	●	●	●	●	●	●
8	BTT0**128	128	124±3	102	160	10A 15A	250VAC	●	●	●	●	○	●
9	BTT0**133	133	129+3-2	105	160	10A 15A	250VAC	●	●	●	●	●	●
10	BTT0**142	142	138±3	110	160	10A 15A	250VAC	●	●	●	●	●	●
11	BTT0**157	157	152±2	130	175	10A 15A	250VAC	●	●	●	●	●	●
12	BTT0**172	172	168±3	145	190	10A 15A	250VAC	●	●	●	●	●	●
13	BTT0**184	184	180±2	159	210	10A 15A	250VAC	●	●	○	●	●	○
14	BTT0**192	192	189±2	165	300	10A 15A	250VAC	●	●	●	●	●	●
15	BTT0**216	216	213±3	190	300	10A 15A	250VAC	●	●	●	●	●	●
16	BTT0**240	240	235±2	200	300	10A 15A	250VAC	●	●	●	●	●	●

注: (1)**:对应10A或15A
(1)**: Response 10A or 15A
(2)●=取得 ○=未取得
(2) ●=obtained ○=no obtained



BTAシリーズ 温度ヒューズ

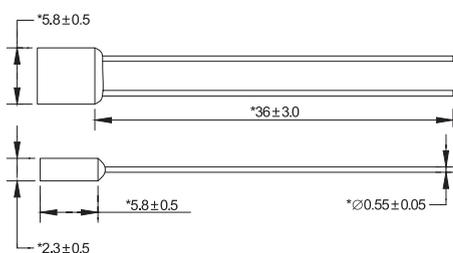
BTA系列温度保险丝 BTA SERIES THERMAL FUSE



关键特性 KEY FEATURES OF THE PRODUCT

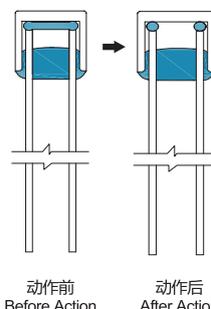
- 环保易熔合金型
Environmentally fusible alloy type
- 塑料外壳
Plastic case
- 动作温度精准
Accurate action temperature
- 一次动作保护，不可恢复
Not recoverable

尺寸 DIMENSIONS(MM)



备注：导线长度可根据客户要求定制
Note: Wire length can be customized according to customer requirements.

工作原理 WORKING PRINCIPLE



当温度保险丝本体及周边环境温度上升至温度保险丝熔断温度时，在助熔剂发挥表面张力作用下，合金呈球状熔断，切断电路，发挥保护功能。

When fuse body and its ambience temperature rises to the melting point of Thermal fuse, the alloy is spherical fused under the surface tension of flux, cutting off the circuit and playing a protective role.

参数表 PARAMETER LIST

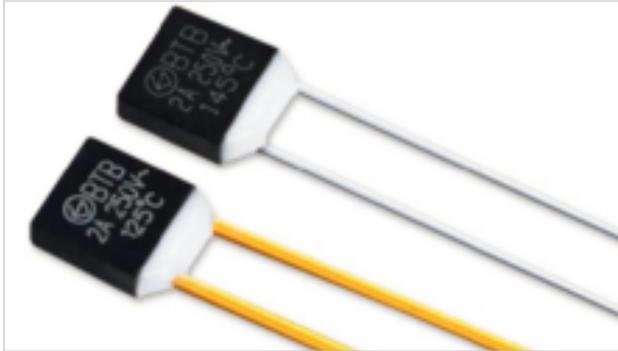
序号 No.	料号 PN	额定 动作温度	动作 温度	保持 温度	极限 温度	额定 电流	额定 电压	认证 certification				
		Tf (°C)	Operating temperature (°C)	Th (°C)	Tm (°C)	Rated Current (A)	Rated Voltage (V)	UL/C-UL	TUV	CCC	PSE	KC
1	BTA 115C	115	111±2	100	203	1A	250V	●	●	●	●	●
2	BTA 125C	125	121±2	106	203	1A	250V	●	●	●	●	●
3	BTA 130C	130	125±2	108	203	1A	250V	●	●	●	●	●
4	BTA 135C	135	131±2	116	203	1A	250V	○	●	●	●	●
5	BTA 145C	145	140±2	127	203	1A	250V	○	●	●	●	●
6	BTA 150C	150	144±2	129	203	1A	250V	○	●	●	●	●

注：(1) ●=取得 ○=未取得
(1) ●=obtained ○=no obtained



BTBシリーズ 温度ヒューズ

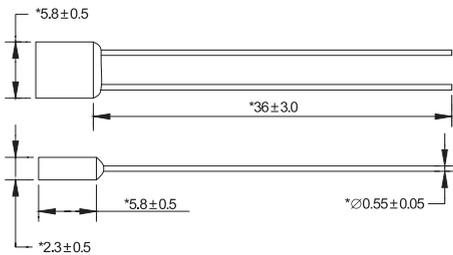
BTB系列温度保险丝 BTB SERIES THERMAL FUSE



关键特性 KEY FEATURES OF THE PRODUCT

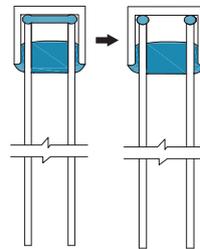
- 环保易熔合金型
Environmentally fusible alloy type
- 塑料外壳
Plastic case
- 动作温度精准
Accurate action temperature
- 一次动作保护，不可恢复
Not recoverable

尺寸 DIMENSIONS(MM)



备注：导线长度可根据客户要求定制
Note: Wire length can be customized according to customer requirements.

工作原理 WORKING PRINCIPLE



动作前 Before Action 动作后 After Action

当温度保险丝本体及周边环境温度上升至 温度保险丝熔断温度时，在助熔剂发挥表面张力作用下，合金呈球状熔断，切断电路，发挥保护功能。

When fuse body and its ambience temperature rises to the melting point of Thermal fuse, the alloy is spherical fused under the surface tension of flux, cutting off the circuit and playing a protective role.

参数表 PARAMETER LIST

序号 No.	料号 PN	额定 动作温度 Tf	动作 温度 Operating temperature	保持 温度 Th	极限 温度 Tm	额定 电流 Rated Current	额定 电压 Rated Voltage	认证 certification				
		(°C)	(°C)	(°C)	(°C)	(A)	(V)	UL/C-UL	TUV	CCC	PSE	KC
1	BTB 115C	115	111±2	100	203	2A	250VAC	●	●	●	●	●
2	BTB 125C	125	121±2	106	203	2A	250VAC	●	●	●	●	●
3	BTB 130C	130	125±2	108	203	2A	250VAC	●	●	●	●	●
4	BTB 135C	135	131±2	116	203	2A	250VAC	○	●	●	●	●
5	BTB 145C	145	140±2	127	203	2A	250VAC	○	●	●	●	●
6	BTB 150C	150	144±2	129	203	2A	250VAC	○	●	●	●	●

注: (1) ●=取得 ○=未取得
(1) ●=obtained ○=no obtained



BTWシリーズ 温度ヒューズ

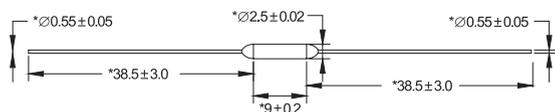
BTW系列温度保险丝 BTW SERIES THERMAL FUSE



关键特性 KEY FEATURES OF THE PRODUCT

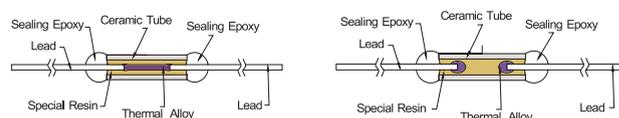
- 环保易熔合金型
Environmentally fusible alloy type
- 陶瓷外壳
Ceramic case
- 动作温度精准
Accurate action temperature
- 一次动作保护，不可恢复
Not recoverable

尺寸 DIMENSIONS(MM)



备注：导线长度可根据客户要求定制
Note: Wire length can be customized according to customer requirements.

工作原理 WORKING PRINCIPLE



当温度保险本体及周边环境温度上升至 温度保险丝熔断温度时，在助熔剂发挥表面张力作用下，合金呈球状熔断，切断电路，发挥保护功能。

When fuse body and its ambience temperature rises to the melting point of Thermal fuse, the alloy is spherical fused under the surface tension of flux, cutting off the circuit and playing a protective role.

参数表 PARAMETER LIST

序号 No.	料号 PN	额定 动作温度	动作 温度	保持 温度	极限 温度	额定 电流		额定 电压	认证 certification			
		Tf (°C)	Operating temperature (°C)	Th (°C)	Tm (°C)	Rated Current (A)	Rated Voltage (V)	UL/C-UL	TUV	CCC	PSE	
1	BTW 115C	115	111±2	100	203	1	2	250VAC	○	○	○	○
2	BTW 125C	125	121±2	106	203	1	2	250VAC	○	○	○	○
3	BTW 130C	130	125±2	108	203	1	2	250VAC	○	○	○	○
4	BTW 135C	135	131±2	116	203	1	2	250VAC	○	○	○	○
5	BTW 145C	145	140±2	127	203	1	2	250VAC	○	○	○	○
6	BTW 150C	150	144±2	126	200	1	2	250VAC	●	●	●	●

注: (1) ●=取得 ○=未取得
(1) ●=obtained ○=no obtained



KSDシリーズ サーマル プロテクター

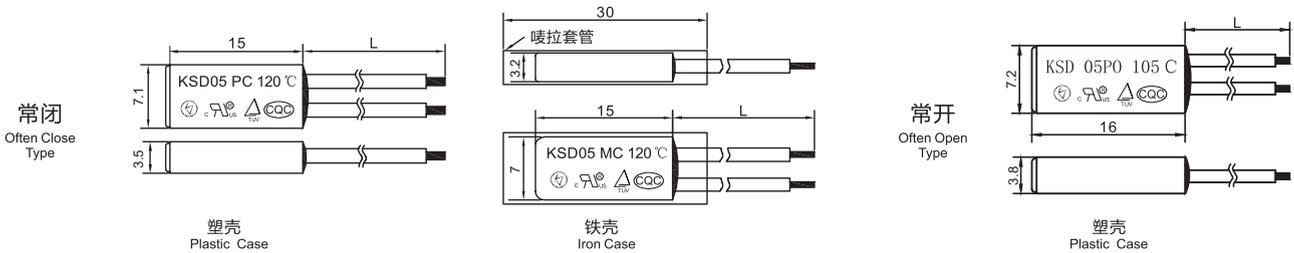
KSD热保护器系列 KSD THERMAL PROTECTOR SERIES



关键特性 KEY FEATURES OF THE PRODUCT

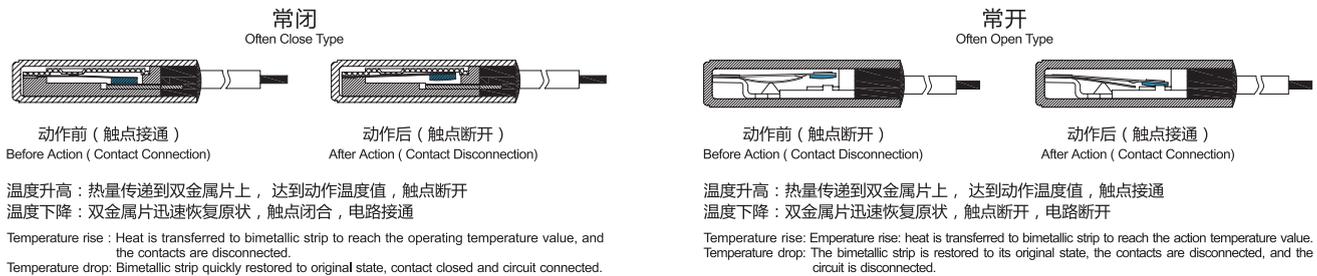
- 体积小，快速动作
Small size, quick action
- PBT外壳，金属外壳，环氧树脂密封
PBT case, metal case, epoxy seal
- 自动复位双金属片
Auto reset bimetallic strip
- 防潮，防尘，防浸漆
Moistureproof, dustproof, anti soaking paint
- 优越的热响应
Superior thermal response
- 按要求定制
Customized according to requirements

尺寸 DIMENSIONS(MM)

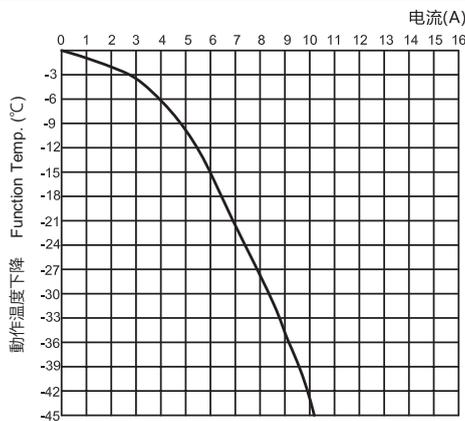


注：电子线的型号规格、颜色、长度，套管的规格、长度，镀锡铜线的长度等可依客户要求定制
 Note: Type specification, color, length, sleeve specification, length of tin-plated copper wire can be customized according to customer requirements

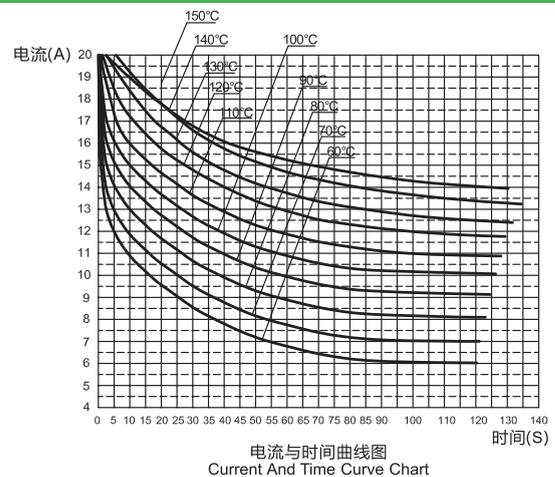
参数表 PARAMETER LIST



电流-温度下降曲线图 OPERATING TEMP. DROP DUE TO CURRENT



电流与时间曲线图 CURRENT AND TIME CURVE CHART





参数表 PARAMETER LIST

KSD热保护器系列 KSD THERMAL PROTECTOR SERIES										
电气特性 Electric characteristic		AC250V/5A; AC115V/8A; DC24V/10A								
接触电阻 Contact resistance		≤50mΩ								
温度特性 Temperature characteristic										
料号 PN	动作温度(°C) Action temperature	复位温度(°C) Reset temp(°C)	最高使用环境 极限温度 Highest ambient temp	常闭 Often close		常开 Often open		认证 Certification		
				塑壳 Platic csae	铁壳 Iron csae	塑壳 Platic csae	铁壳 Iron csae	TUV	UL	CQC
KSD060****	60±5	45±8	110°C	●	●	●	-	●	●	●
KSD065****	65±5	48±10	115°C	●	●	●	-	●	●	●
KSD070****	70±5	50±12	120°C	●	●	●	-	●	●	●
KSD075****	75±5	53±15	125°C	●	●	●	-	●	●	●
KSD080****	80±5	55±15	130°C	●	●	●	-	●	●	●
KSD085****	85±5	60±15	135°C	●	●	●	-	●	●	●
KSD090****	90±5	65±15	140°C	●	●	●	-	●	●	●
KSD095****	95±5	70±15	145°C	●	●	●	-	●	●	●
KSD100****	100±5	70±15	150°C	●	●	●	-	●	●	●
KSD105****	105±5	75±15	155°C	●	●	●	-	●	●	●
KSD110****	110±5	75±15	160°C	●	●	●	-	●	●	●
KSD115****	115±5	80±15	165°C	●	●	●	-	●	●	●
KSD120****	120±5	85±15	170°C	●	●	●	-	●	●	●
KSD125****	125±5	85±15	175°C	●	●	●	-	●	●	●
KSD130****	130±5	90±15	180°C	●	●	-	-	●	●	●
KSD135****	135±5	95±15	180°C	●	●	-	-	●	●	●
KSD140****	140±5	100±15	180°C	●	●	-	-	●	●	●
KSD145****	145±5	100±15	180°C	●	●	-	-	●	●	●
KSD150****	150±5	105±15	180°C	●	●	-	-	●	●	●

注: (1) 复位温度仅供参考
(1) Reset temp for reference
(2) ● = 取得 ○ = 未取得
(2) ● = obtained ○ = no obtained

应用 APPLICATION

- | | | | |
|---------------------------------|-------------------------------------|--|---|
| (1) 电动机保护
Motor Protection | (3) 变压器保护
Transformer Protection | (5) 加热垫温度控制
Heating Pad Temperature Control | (7) LED灯管, 球泡保护
Led Lamp Tube, Bulb Protection |
| (2) 蓄电池保护
Battery Protection | (4) 充电器保护
Charger Protection | (6) 电源保护
Power Protection | (8) PCB电路板保护
Pcb Circuit Board Protection |

储存及安装注意事项 STORAGE AND INSTALLATION PRECAUTIONS

(1) 产品应在相对湿度小于90%，环境温度40°C以下通风、洁净、干燥、无腐蚀性气体的场所中存放。

The product should be stored in a ventilated, clean, dry and non-corrosive place with relative humidity less than 90% and ambient temperature below 40 °C.

(2) 保护器应安装于被保护对象温升的敏感点，其感温面应与被保护部件有效地紧密接触或直接面向被保护区域。

The protector shall be installed at the sensitive point of temperature rise of the protected object, and its temperature sensing surface shall be in close contact with the protected part effectively or directly oriented to the protected area.



(3) 不得使用尖锐的工具对保护器挤压。

No sharp tools should be used to crush the protectors.

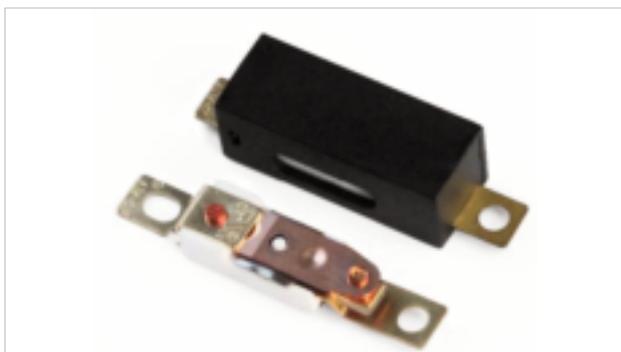
(4) 不得用重力捶压保护器。

Do not use gravity to beat the protector.



ATMシリーズ サーマル CUT-OUT

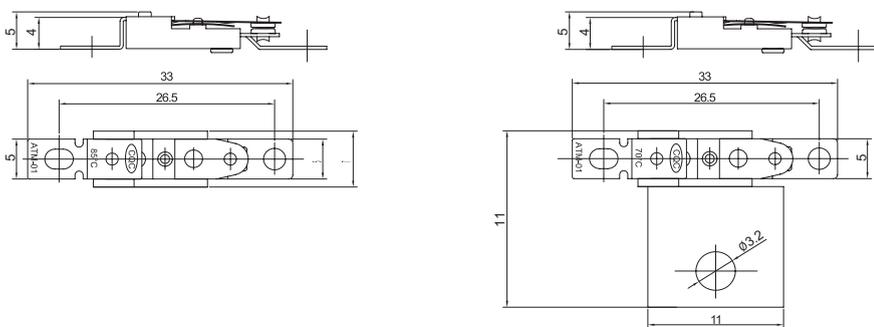
ATM系列热切断器 ATM THERMAL CUT - OUT SERIES



关键特性 KEY FEATURES OF THE PRODUCT

- 可承受16A大电流
May operation current 16A
- 10万次超长寿命
100,000 million times long life
- 快速动作
Quick action
- 优越的热响应
Superior thermal response
- 陶瓷耐高温支架
Ceramic high temperature resistant bracket

尺寸 DIMENSIONS(MM)



工作原理 WORKING PRINCIPLE

自动复位型(ATM-01)产品 Auto-Reset Type (ATM-01) Products



当被保护电器温度升高时所产生的热量传递到双金属片元件上，达到预定动作温度设定值时，双金属片元件便迅速动作，推动动触片断开触点，从而切断电路；当温度下降到额定复位温度值时，双金属片元件自动恢复接通电路。

When the temperature of the protected electrical apparatus rises, the heat generated is transferred to the bimetal sheet element, and when the predetermined operating temperature is reached, the bimetal sheet element acts quickly, pushing the moving contact to disconnect the contact, thereby cutting off the circuit; when the temperature drops to the rated reset temperature, the bimetal sheet element automatically restores the circuit to be connected.

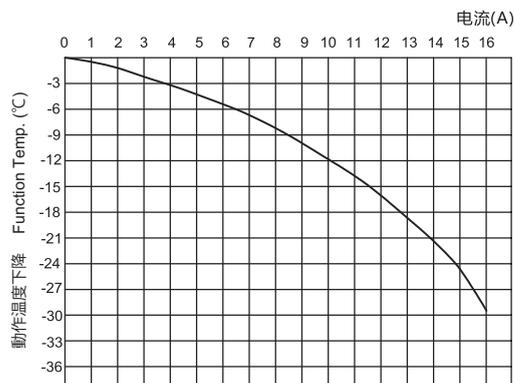
断电复位型(ATM-01P)产品 Turn off to reset (ATM-01P) Products



带PTC元件同触点电路形成一个并联电路，当温度升高后，触点电路断开，电流通过PTC元件形成回路，PTC迅速升温，高于额定的复位温度，使电路一直保持断开状态。当关闭总电源，温度下降到双金片的复位温度时，双金片迅速恢复，触点闭合，使保护的电路更安全，更可靠。

When the temperature rises, the contact circuit is disconnected, and the current passes through the PTC element to form a circuit. The PTC temperature rises rapidly, which is higher than the rated reset temperature, so that the circuit remains disconnected. When the total power supply is switched off and the temperature drops to the reset temperature of the double gold sheet, the double gold sheet is quickly restored and the contacts are closed, thus making the protective circuit safer and more reliable.

电流热效应温度曲线图 TEMPERATURE CURVE OF ELECTRIC THERMAL EFFECT





参数表 PARAMETER LIST

ATM系列热切断器 ATM THERMAL CUT - OUT SERIES									
电气特性 Electric characteristic		AC250V/16A 50/60HZ 10000cycles ; AC125V/16A 100000cycles ;							
接触电阻 Contact resistance		≤50mΩ							
温度特性 Temperature characteristic									
料号 PN	动作温度(°C) Action temperature	复位温度(°C) Reset temp(°C)	最高使用环境 极限温度 Highest ambient temp	常闭 自动复位 Often close (auto reset)	常闭 手动复位 Often close (manual reset)	认证 Certification			
						TUV	UL	CQC	
ATM-01(01P)-60°C	60±5	45±8	110°C	●	●	●	●	●	
ATM-01(01P)-65°C	65±5	48±10	115°C	●	●	●	●	●	
ATM-01(01P)-70°C	70±5	50±12	120°C	●	●	●	●	●	
ATM-01(01P)-75°C	75±5	53±15	125°C	●	●	●	●	●	
ATM-01(01P)-80°C	80±5	55±15	130°C	●	●	●	●	●	
ATM-01(01P)-85°C	85±5	60±15	135°C	●	●	●	●	●	
ATM-01(01P)-90°C	90±5	65±15	140°C	●	●	●	●	●	
ATM-01(01P)-95°C	95±5	65±15	145°C	●	●	●	●	●	
ATM-01(01P)-100°C	100±5	70±15	150°C	●	●	●	●	●	
ATM-01(01P)-105°C	105±5	75±15	155°C	●	●	●	●	●	
ATM-01(01P)-110°C	110±5	75±15	160°C	●	●	●	●	●	
ATM-01(01P)-115°C	115±5	80±15	165°C	●	●	●	●	●	
ATM-01(01P)-120°C	120±5	85±15	170°C	●	●	●	●	●	
ATM-01(01P)-125°C	125±5	85±15	175°C	●	●	●	●	●	
ATM-01(01P)-130°C	130±5	90±15	180°C	●	●	●	●	●	
ATM-01(01P)-135°C	135±5	95±15	185°C	●	●	●	●	●	
ATM-01(01P)-140°C	140±5	100±15	190°C	●	●	●	●	●	
ATM-01(01P)-145°C	145±5	100±15	195°C	●	●	●	●	●	
ATM-01(01P)-150°C	150±5	105±15	200°C	●	●	●	●	●	

注: (1) 复位温度仅供参考
 (1) Reset temp for reference
 (2) ●=取得○=未取得
 (2) ●=obtained ○=no obtained

应用 APPLICATION

- (1) 电吹风、卷发器的过热保护
Overheating Protection For Hair Driers And Curlers
- (2) 加热器, 爆米花机, 电烤箱
Heater, Popcorn Maker, Electric Oven
- (3) 暖风机等
Heating Fan, Etc

储存及安装注意事项 STORAGE AND INSTALLATION PRECAUTIONS

- (1) 产品应在相对湿度小于90%, 环境温度40°C以下通风、洁净、干燥、无腐蚀性气体的场所中存放。
The product should be stored in a ventilated, clean, dry and non-corrosive place with relative humidity less than 90% and ambient temperature below 40%.
- (2) 安装和使用过程中, 绝不允许触碰弹片及感温部分, 否则将会导致限温器温度失准, 接触不良而不能工作。
In the process of installation and use, the shrapnel and the temperature sensing part must not be touched. Otherwise, the temperature of the thermostat will be inaccurate and the contact is not good enough to work.



KSTシリーズ サーモスタート

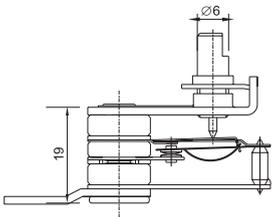
KST系列可调式温控器 KST THERMOSTAT SERIES



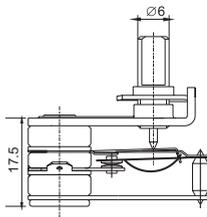
关键特性 KEY FEATURES OF THE PRODUCT

- 温度可任意调节
The temperature can be adjusted at will.
- 多种形状可依客户需求定制
Various shapes can be customized according to customer requirements.
- 产品动作精准可靠
Accurate action temperature
- 使用寿命长(10万次)
Long service life (100,000 times)

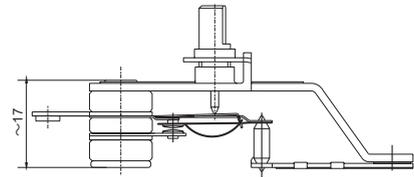
尺寸 DIMENSIONS(MM)



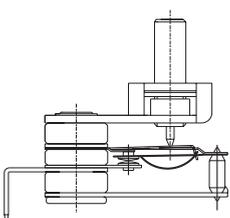
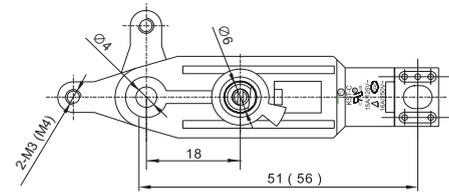
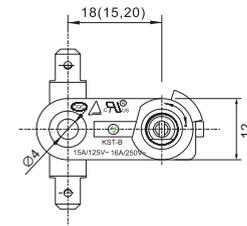
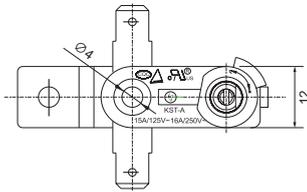
KST-A



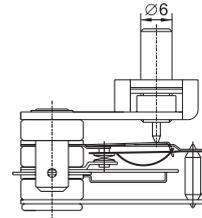
KST-B



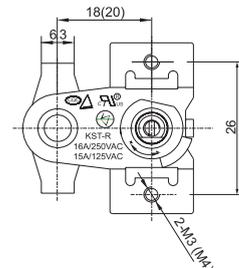
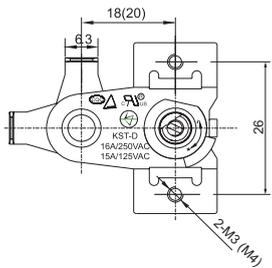
KST-C



KST-D



KST-R





参数表 PARAMETER LIST

电气特性 Electric characteristic	AC250V/16A 100000cycles ; AC125V/15A 100000cycles ;
接触电阻 Contact resistance	≤50mΩ
触点形式 Contact model	常闭
产品标识 Product	KST-A安装板定位;KST-B 非安装板定位; KST-C 安装结构是桥式形状; KST-D 压板安装; KST-R 温控自带电阻补偿 KST-A asemlly board fixture; KST-B none asemlly board fixture; KST-Cbridge type asemlly structure; KST-D push board asemlly; KST-R thermostat with resistance offset
使用环境极限温度 Lowest ambient temp	动作温度+ 50°C ,且最高不能超过300°C 1分钟 Action temp 50°C,not high to 300 °C
温度范围 temp range marking	0-250°C
温度公差 Temp intorance	±5°C (≤100°C) ; ±5%°C (> 100°C) 或依客户整机匹配 ±5°C (≤100°C) ; ±5%°C (> 100°C) according to client equipment to match
认证 Certification	UL、TUV、CQC

应用 APPLICATION

- (1) 电熨斗, 电烤箱, 油炸锅
Electric Iron , Electric Oven , Oil Fryer
- (2) 暖奶器, 热波炉, 光波炉, 电压力锅, 电饭煲
Milk Heater , Heat Wave Furnace , Light Wave Furnace, Electric Pressure Cooker , Electric Rice Cooke
- (3) 电饼铛、暖风机、BBQ等
Electric Baking Pan , Heater , BBQ , Etc

储存及安装注意事项 STORAGE AND INSTALLATION PRECAUTIONS

- (1) 产品应在相对湿度小于90%, 环境温度40°C以下通风、洁净、干燥、无腐蚀性气体的场所中存放
The product should be stored in a ventilated, clean, dry and non-corrosive place with relative humidity less than 90% and ambient temperature below 40%.
- (2) 为确保感温效果, 并在器具感温表面涂上导热膏
In order to ensure the temperature effect, and heat the paste on the surface of the instrument.
- (3) 安装时温控器的陶瓷、双金属片等物理状况应不受外力的作用而保持原样
When installing, the physical state of the ceramic and bimetal of the thermostat shall remain unchanged without external force.