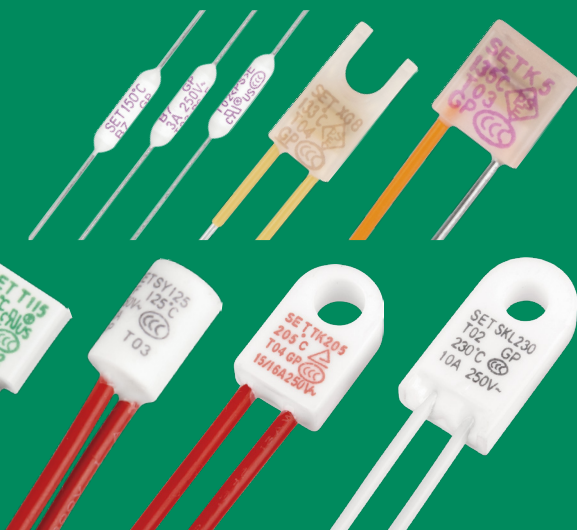


# ATCO

## 温度保险丝 Thermal-link

- 一次性过温保护
- 断开温度精确
- 密封结构
- 低阻抗
- 结构紧凑，尺寸小
- 额定电流: (1 ~ 200) A
- 额定动作温度: (76 ~ 230) °C
- 径向，轴向结构
- 引线可附加绝缘层

- Non-resettable Over Temp. Protection
- High Accuracy of Functioning Temp.
- Sealed Construction
- Low Impedance
- Miniaturized Size
- Rated Current: (1 ~ 200) A
- Rated Functioning Temp.: (76 ~ 230) °C
- Radial and Axial Shapes
- Lead Wires Can Be Insulated



制造电路控制及安全保护元器件 提供电路安全解决方案  
Providing a Total Solution for High Standard Safety Circuit Protection

SET safe | SET fuse  
赛尔特

# WHAT

## CAN DO FOR YOU

赛尔特设计、制造、销售业界领先的**电路控制及安全保护元器件**、提供**电路安全解决方案**。

2000年成立于中国厦门。产品销往40多个国家和地区，与世界500强的部分企业有深远的合作，首创、独创多个产品；取得CCC、UL、cUL、VDE、TUV、PSE、KC等认证，符合RoHS、REACH，获得IATF16949、ISO9001、ISO14001、ISO45001、GB/T29490管理体系认证，参与多项电路保护元器件的国家、国际标准制定、修订。

赛尔特(SETsafe | SETfuse)产品的主要应用市场：通信、防雷器、电源、新能源、照明、家电、移动设备、医疗。

### MISSION

#### PROVIDING A TOTAL SOLUTION FOR HIGH STANDARD SAFETY CIRCUIT PROTECTION.

SETsafe | SETfuse was established in 2000 in Xiamen, China. We have a presence in more than 40 countries and regions recognising our products. Some of the world's 500 fortune companies are our valuable customers. We have pioneered, innovated & developed several products exclusively. Products are compliance with CCC, UL, cUL, VDE, TUV, PSE, KC, IATF16949, ISO9001, ISO14001, ISO45001, GB/T29490 certificates. We are in one of the core participating teams for revising and setting several national & international standards in the field of Circuit Protection.


SETsafe | SETfuse Key Markets: Telecom, Surge Protector, Power, New Energy, Lighting, Home Appliances, Mobile Devices, Medical.

### 过温保护 Over Temperature Protection

**ATCO**  
温度保险丝 Thermal-Link 1



**DC-ATCO**  
直流温度保险丝 Thermal-Link 2



**OTCO**  
温度保险丝 Thermal-Link 3

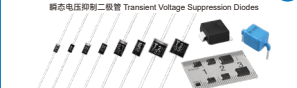


**TMS**  
热保护器 Thermal Protector 4




### 过电压保护 Over Voltage Protection


**TVS Diodes**  
瞬态电压抑制二极管 Transient Voltage Suppression Diodes 1




**GDT**  
气体放电管 Gas Discharge Tube 2




**MOV**  
压敏电阻 Metal Oxide Varistor 3



**TFMOV**  
热保护型压敏电阻 Thermal Fuse & MOV 4




**TFMOV**  
热保护型压敏电阻 Thermally Protected Varistors 5



### 过电压保护 Over Voltage Protection

**SPD-M**  
电涌保护模块 Surge Protective Device Module 6




**SPD**  
低压电源系统 Low-voltage Power Systems 7



**SPD**  
光伏供电系统 PV System 8



**SPD**  
室外照明系统 Outdoor Lighting 9



**SPD**  
信号通信系统 Signaling Networks 10



### 过电流保护 Over Current Protection

**Mini Fuses**  
小型熔断器 Miniature Fuses 1



**TRXF**  
热保护型熔断电阻器 Thermal-Link & Fusing Resistor 2



**TPR**  
热保护型熔断电阻器 Thermally Protected Resistor 3



**NTC**  
抑制浪涌电流NTC热敏电阻器 Inrush Current Limiting NTC Thermistor 4



**LV Fuses**  
低压熔断器 Low Voltage Fuses 5



### 主动保护 Active Protection

**iTCO**  
受控熔断器 Iode Thermal-Link 1



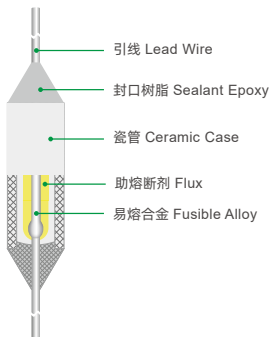
## 产品简介 Product Description

合金型温度保险丝是一次性动作而不可复位的装置。它广泛应用于电气设备的过温保护。其主要由低熔点的易熔合金、助熔断剂、外壳、封口树脂和引线组成。在正常工作情况下，易熔合金与两根引线保持连接，当合金型温度保险丝感受到异常发热并达到预定的熔断温度时，易熔合金熔化，并在助熔断剂的作用下快速收缩至引线两端，从而断开电路。赛尔特公司的合金型温度保险丝结构分为轴向型和径向型，额定动作温度：(76 ~ 230) °C、额定电流：(1 ~ 200) A，安规认证包括：CCC，UL，cUL，VDE，TUV，KC，PSE，同时满足RoHS、REACH 等环保要求。

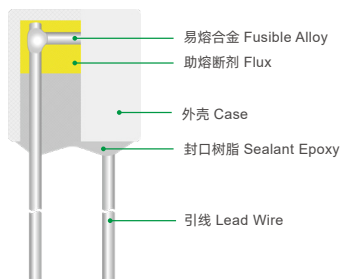
Alloy Thermal-Link / Alloy Thermal Cutoff (ATCO) is defined as a non-resettable protective device functioning one time only. It is widely used in electrical equipment. ATCO is mainly consist of Fusible Alloy, Flux Resin, Case, Sealant and Lead Wires. Normally, Fusible Alloy is jointed to the two Lead Wires. Under abnormal conditions, when the Temp. reaches to the fusing Temp. of ATCO, the Fusible Alloy melts and quickly retracts to the two Lead Wire ends with the aid of the Flux Resin and disconnects the circuit completely. SET's alloy TCO is classified into Axial and Radial shapes, with Rated Current 1 A to 200 A, Rated Functioning Temp. 76 °C to 230 °C, with CCC, UL, CUL, VDE, TUV, KC, PSE, Approvals and RoHS, REACH compliant.

## 结构图 Structure








轴向型 Axial Shape



径向型 Radial Shape



## 安规认证 Agency Information

认证信息 Agency Information							
	UL	CUL	VDE	TUV	PSE	KC	CCC
标准 Standards	UL 60691	CAN-CSA E60691	EN 60691	EN 60691	J60691	K60691	GB/T 9816

# 温度保险丝特性与型号概览 Thermal-Link (ATCO) Feature & Model List Overview

额定电压 (VAC)	额定电流 (A)	1	2	3	5	10	15	20	25	30	40	2	3	10	16	10	15	2	3		
230	V31	H31	B31	C31	U31	R31	K31	X31								SKL230	SE230				
221	V32	H32	B32	C32	U32	R32	K32	X32								TK221	TK205				
205																SKL200	SE200				
200																					
187							K17	X17													
160	V16	H16	B16	C16	U16	R16	F16	K16	X16	Y16						KG16	KG16	KG16	SK160		
150	V7	H7	B7	C7	U7	R7	F7	K7	X7	Y7	S150	T150				KG7	KG7	KG7	SK150		
145	V6	H6	B6	C6	U6	R6	F6	K6	X6	Y6						KG6	KG6	KG6	SK145		
139	V13	H13	B13	C13																	
136	V9	H9	B9	C9							S136	T136	P136	Q136	N136	G136	KG9	KG9	KG9	SK135	
135	V5	H5	B5	C5	U5	R5	K5	X5									KG5	KG5	KG5	SK135	
133	V8	H8	B8	C8			F8	K8	X8	Y8							KG8	KG8	KG8	SK130	
130	V4	H4	B4	C4	U4	R4	F4	K4	X4	Y4							N130	G130	KG4	SK130	
125	V3	H3	B3	C3	U3	R3	F3	K3	X3	Y3	S125	T125					N125	G125	KG3	SK125	
123																					
120																					
115	V2	H2	B2	C2	U2	R2	F2	K2	X2	Y2	S115	T115	PH15	Q115	N115	G115	KG2	KG2	KG2	SK115	
105																					
102	V1	H1	B1	C1	U1	R1	F1	K1	X1	Y1	S102	T102					N102	G102	KG1	SK102	
97	V21	H21	B21	C21																	
95																					
86	V18	H18	B18	C18	U18	R18	F18	K18	X18	Y18									KG18	KG18	
76	V0	H0	B0	C0	U0	R0	F0	K0	X0	Y0									KG0	KG0	

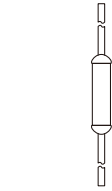
Model 型号

Rated Functioning Temp. (°C)

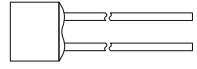
$I_{(A)}$   
额定电流 Rated Current  
 $U_{(VAC)}$   
额定电压 Rated Voltage

250

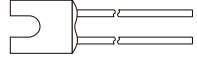
300



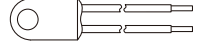
轴向往型  
Axial Shape



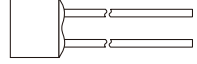
径向型  
Radial Shape



径向型 (带螺丝孔)  
Radial Shape (Screw Hole)



圆柱型  
Cylindrical



径向型  
Radial Shape

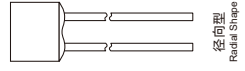
产品结构  
Product Structure

# 温度保险丝特性与型号概览 Thermal-Link (ATCO) Feature & Model List Overview

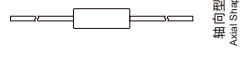
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额定动作温度 Rated Functioning Temp. $T_f$ (°C)	300 (VAC)	400 (VAC)	500 (VAC)	690 (VAC)	800 (VAC)	50 (VDC)	60 (VDC)	Model
230								
221								H31
205								H32
200								H16
160								C7
150	YM7	SM150	TM150					C6
145								B6
139								B13
136	YM9	SM136	TM136	Q136	P136			C9
135								C5
133								C8
130	YM4							C4
125								B3
123								C3
120								C2
115								C1
105								
102								
97								
95								
86								
76								

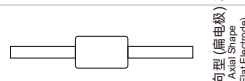
$I_R$  (A)  
额定电流 Rated Current  
 $U_R$  (VAC / VDC)  
额定电压 Rated Voltage



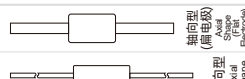
径向型  
Radial Shape



轴向型  
Axial Shape



轴向型 (扁电极)  
Axial Shape (Pin Electrode)



轴向型 (扁电极)  
Axial Shape (Pin Electrode)



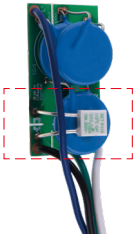
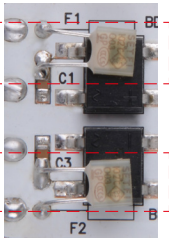

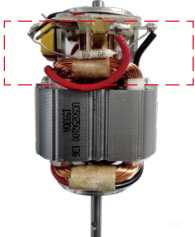

轴向型  
Axial Shape



轴向型  
Axial Shape

## 产品结构 Product Structure



应用 Applications	图例 Illustrations	原理说明 Principle Instruction
<p>防雷元件 (MOV、GDT等)的热保护 Surge Protective Components, Such as MOV,GDT</p>		<p>温度保险丝与防雷元件串联后接入电路，当防雷元件裂化或者异常时，引起防雷元件发热，热量传给温度保险丝，当温度达到熔断温度时，温度保险丝断开，切断电路，从而起到过热保护的作用。</p> <p>ATCO is designed to be in series with surge protective components in the circuit. When surge protective components degrade or be in other abnormal situations, overheating will happen. The heat is transferred to ATCO from the surge protective components. Once the temperature reaches to the fusing temperature of ATCO, ATCO will open and be able to disconnect the surge protective components from the circuit.</p>
<p>PCB板上元器件的热保护 Components on PCB</p>		<p>温度保险丝与需要保护的元器件串联，且温度保险丝紧靠在元器件旁边，当需保护的器件异常发热时，其产生的热量达到温度保险丝的熔断温度时，温度保险丝断开，切断电路，从而起到热保护的作用。</p> <p>ATCO is designed to be in series with the components in the circuit and they need to be connected tightly. When the components are in abnormal overheating situations, the heat is transferred to ATCO. Once the temperature reaches to the fusing temperature of ATCO, ATCO will open the circuit.</p>
<p>变压器线圈的热保护 Coils of Transformer</p>		<p>温度保险丝串联在变压器的输入端（主线圈），并且紧贴线圈，当线圈工作异常时，线圈温度升高，温度保险丝受热熔断，切断输入端电路，变压器停止工作，从而起到过温保护的作用。</p> <p>ATCO is designed to be in series with the input of the transformer and they need to be connected tightly. When the transformer is in abnormal overheating situations, the heat is transferred to ATCO. Once the temperature reaches to the fusing temperature of ATCO, ATCO will open the circuit and the transformer stops working.</p>
<p>电动机(马达)的热保护 Motors</p>		<p>温度保险丝串联在电动机定子的绕组上，并且紧贴绕组，当电动机工作异常时，绕组温度升高，温度保险丝受热熔断，切断输入端电路，电动机停止工作，从而起到过温保护的作用。</p> <p>ATCO is designed to be in series with the coil of the motor and they need to be connected tightly. When the motor is in abnormal overheating situations, the heat is transferred to ATCO. Once the temperature reaches to the fusing temperature of ATCO, ATCO will open the circuit and the motor stops working.</p>
<p>电热器具的热保护 Electrical Heating Devices</p>		<p>温度保险丝串联在电热器具的电路中，并且紧贴热源，当电路工作异常，温度持续升高至温度保险丝熔断温度时，温度保险丝熔断，切断电路，热源停止发热，起到过热保护的作用。</p> <p>ATCO is designed to be in series with the heating element of the electrical heating device and they need to be connected tightly. When the heating element is in abnormal overheating situations, the heat is transferred to ATCO. Once the temperature reaches to the fusing temperature of ATCO, ATCO will open the circuit and the heating element stops heating.</p>



# 应用 Application

<p>通讯领域 Telecom Field</p>			
<p>汽车领域 Automobile Field</p>			
<p>生活家电领域 Home Appliance Field</p>			
<p>PCB板上元器件领域 Field of Components on PCB</p>			
<p>电动车领域 EV Field</p>			
<p>工业控制及自动化领域 Field of Industrial Control and Automation</p>			
<p>照明领域 Lighting Field</p>			

无过温保护  
Without Thermal Protection

→ 着火风险  
Risk of Fire





有过温保护  
With Thermal Protection

→ 安全  
Safety





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