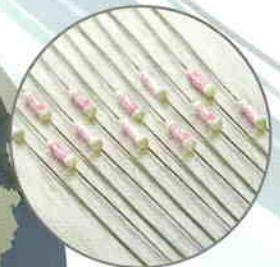


# S.W.C THERMAL FUSE

[www.thermalcutoff.com](http://www.thermalcutoff.com)



**SUNG WOO INDUSTRIAL CO.**

## ABOUT US

SungWoo Industrial Co. with brand name S.W.C was established in 1985. Since then, we have built up abundant experience and knowledge in the field of thermal fuses as our main product. We provide our customers with good-quality products all over the world achieving the highest level of customers satisfaction.

For 30 years, we have supplied our products to major companies like Samsung, LG electronics, and Daewoo Electronics, Hyundai automobile, Kia automobile etc. Also, foreign companies like Electrolux, Whirlpool, Sanyo, Ford and GM also use our thermal fuses for better safety. Our annual sales is over a hundred million pieces supplying to various companies.

SWC thermal fuses meet many safety standards around the world and also certified by International Standards Organization (ISO) for the ISO9001:2008 quality standard.

With our endeavors, we hope that we can be your business partner and supply you our high quality product and service.

## BUSINESS FIELD

### -Thermal Fuse

Metallic Case Type (SW-1,3,5 series : 10A, 15A 20A, 21A)

Low melting alloy type (SW-2series : 2A)

### - Thermal Fuse Assembly

#### - Ceramic

For Engineering or Electric use

## APPLICATIONS

### Home Appliance

Refrigerator, Heater,  
Cleaning appliances, Rice  
cooker, Grill etc.

### Automobile

Air conditioner, etc.

### Small Appliance

Hair dryer, Coffee machine,  
Mixer, Battery pack, etc.

### industry

Electrical equipment  
and machinery, ect.

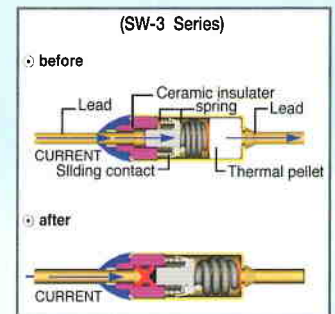
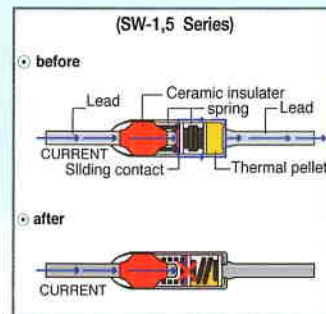


# INTRODUCTION

S.W.C thermal fuse is a compact and reliable device designed to protect electrical appliances and industrial equipment against overheating by interrupting an electrical circuit.

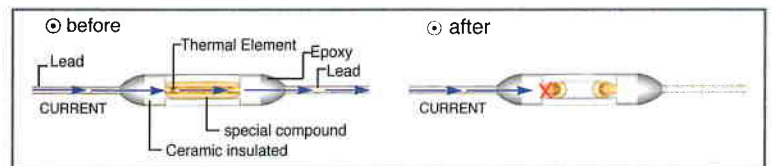
## \* SW-1,3,5 Series

Under normal operating temperature, the solid thermal pellet holds spring-loaded contacts closed. When it reaches functioning temperature, the thermal pellet melts, allowing the spring to expand. Then, the circuit is opened.



## \* SW-2, Series

The special resin compound liquefies beginning as the temperature reaches the melting point of the thermal element, the resin compound forms a bulb-like shape which pulls the liquefied element apart. The next, permanently breaks the electrical circuit.



## · TYPES & RATINGS ·

### \* Sw-1 Series

Rated for continuous operating currents up to 10A at 250VAC, 15A at 125VAC/250VAC. SW-1series are the most commonly used for household appliances, resistive heating elements, refrigerator, oven boiling pot, iron, etc.

### \* Sw-3 Series

SW-3 series has the same physical size as SW-1 series, but it has designed for the applications where a higher temperature and voltage withstand is required. Rated for operating currents up to 20A at 250VAC, 21A at 240VAC.

Open Temp Tf °C	Holding Temp Th °C		Maximum Temp Tm °C	
	SW-1	SW-3 series	SW-1 series	SW-3 series
72 °C	57 °C		200 °C	200 °C
77 °C	62 °C		200 °C	200 °C
84 °C	69 °C		180 °C	200 °C
93 °C	78 °C		180 °C	220 °C
98 °C	83 °C		190 °C	220 °C
100 °C	85 °C		190 °C	220 °C
109 °C	94 °C		190 °C	230 °C
121 °C	106 °C		200 °C	230 °C
128 °C	113 °C		200 °C	270 °C
144 °C	127 °C		260 °C	290 °C
152 °C	137 °C		270 °C	290 °C
167 °C	152 °C		280 °C	290 °C
184 °C	169 °C		220 °C	300 °C
195 °C	180 °C		300 °C	300 °C
216 °C	200 °C		370 °C	370 °C
228 °C	200 °C		370 °C	370 °C
240 °C	200 °C		370 °C	370 °C

## • TYPES & RATINGS •

### \* SW-2 Series

SW-2 series uses a metallic fusible alloy melted when ambient temperature rises to melting point of the alloy. An electrical circuit of the thermal fuse is opened when forming two separate balls at the edges of the leads by surface tension of the fusible alloy. It is rated for operating currents up to 2A at 250VAC.

Open Temp Tf °C	Holding Temp Th °C	Maximum Temp Tm °C
102°C	70°C	180°C
115°C	85°C	180°C
130°C	95°C	180°C
133°C	100°C	180°C
139°C	105°C	180°C
150°C	120°C	180°C

## THERMAL FUSE ASSEMBLIES



SL 96A Type

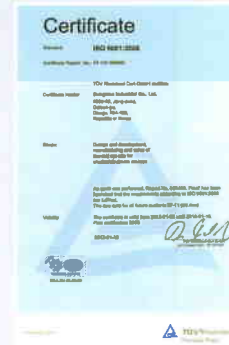


SD Type



SW Type

## Quality & Environment Certification



## APPROVED SAFETY STANDARD

S.W.C thermal fuses are approved by the following certificate authorities.



## CONTACT US

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