

SKL Series



Description

Thermal-Link (ATCO)-Alloy Type 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.

SETsafe | SETfuse Thermal-Link (ATCO)-Alloy Type SKL series Rated Functioning Temp. from 200 °C to 230 °C, Rated Current: 10A, safety certification Includes TUV, CCC, and complies with RoHS and REACH.

Features

- Make a Mounting Hole
- Lead Wires Insulated
- Non-Resettable
- High Accuracy of Functioning Temp.
- RoHS & REACH Compliant

Structure Diagrams

Radial



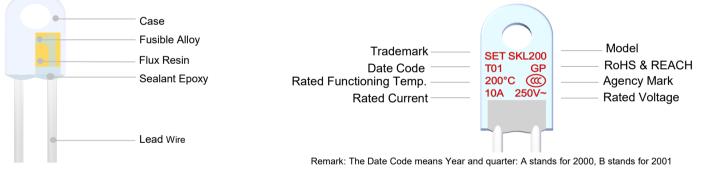
- Electric Heating Appliances
- Home Electrical Appliances

Customization

- Other Temp.
- The Length of Lead Wires
- Lead Wires can Make Pluggable Terminals

Marking

Radial (Color for reference only)



and 01 stands for the first quarter, 02 stands for the second quarter, and so on.

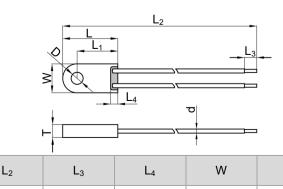
Т

 5.3 ± 0.5

Dimensions (mm)

L

23.0 ± 1.0



 3.0 ± 0.5

93.0 ± 3.0

5.0 ± 1.0

 L_1

 17.0 ± 1.0

d

UL1332 18AWG

D

5.0 ± 1.0

12.0 ± 1.0



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Specifications

(<i>1</i> ⁱ) °C		Model	Fusing Temp.	7 _h (°C)	7 _m	/r (A)	Ur (V)	TUV	ر ش دcc	RoHS REACH
Functioning Temp.	230	SKL230	225 ± 2	190 186ª	380	10	AC 250	•	•	•
Rated Func	200	SKL200	196 ± 3	160 156ª	380	10	AC 250	•	•	•

Note:

1: "●"Means certificated, "○"Means non-certificated.

2: RoHS & REACH Compliant .

3: " a ": The temperature measurement point for holding temperature (T_h) shall be positioned 50 mm away from the product body, in accordance with the requirements specified in Appendix I of GB/T 9816.1-2023.



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Agency Information

Agency Symbol	Standards	The File No. and certification No. obtained by SETsafe SETfuse
A	EN 60691	R50337882
)	GB 9816.1	2020980205000179

Soldering

Hand-Soldering

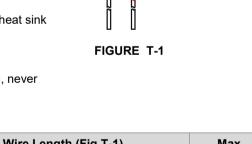
- 1. Soldering should be carried out according to Table T-1.
- 2. The thermal element of ATCO is fusible alloy with low melting point, which is jointed with ATCO lead wires. Improper soldering operation (too high soldering temp., too long soldering time, too short lead wire etc.) may transfer more heat to the thermal element and ATCO may open in advance.
- 3. When soldering conditions are more severe than those listed in Table T-1, a heat sink fixture should be used between soldering point and ATCO body.
- 4. When soldering, please do not pull / push or twist ATCO body or lead wires.
- 5. After soldering, let it naturally cool for longer than 20 seconds. During cooling, never move the ATCO body or lead wires.

TABLE T-1 Hand-Soldering Time

Rated Functioning Temp.		Max. Allow	able Sol	dering Tir	ne for Differe	nt Lead V	Vire Lengt	h (Fig.T-1)		Max. Soldering Temp.
(<i>T</i> _f)	L _s Length	Time	•	L _s Length	Time		L _s Length	Tim	9	
	Lengui	Tinned Copper Wire	CP Wire	Lengti	Tinned Copper Wire	CP Wire	Lengtin	Tinned Copper Wire	CP Wire	
(°C)	(mm)	(s)	(s)	(mm)	(s)	(s)	(mm)	(s)	(s)	(°C)
200 to 230	10	4	7	20	6	9	30	7	10	400

Note:

a: Auxiliary Heat Sink Fixture is Required to Avoid ATCO Cutting off Unexpectedly.



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ATCO Body

Soldering Position

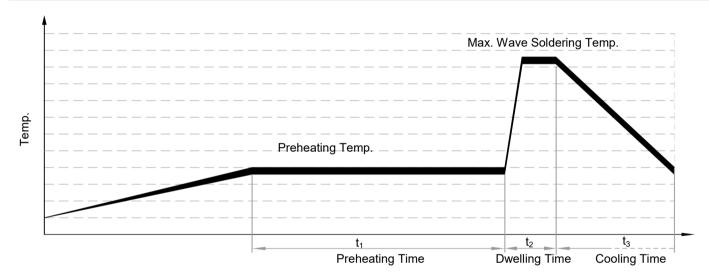
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Wave Soldering

The wave soldering parameters as Table T-2, for reference only, when ATCO is for practice use, you need to do some validation experiments. For example, using X-RAY to see the fusible alloy of ATCO whether damage after wave soldering.

TABLE T-2 Wave Soldering Parameters Setting

Rated Functioning Temp.	Wh	Max. Allowal en the Length		ng Temp. re is Different	Preheating Time (t ₁)	Max. Wave Soldering	Dwelling Time (t ₂)	Cooling Time (t ₃)
(<i>T</i> _f)	L _s Length	Preheating Temp.	L₅ Length	Preheating Temp.		Temp.		
(°C)	(mm)	(°C)	(mm)	(°C)	(s)	(°C)	(s)	(s)
200 to 230	20	90	30	100	< 60	≤ 260	≤ 3	≤ 10

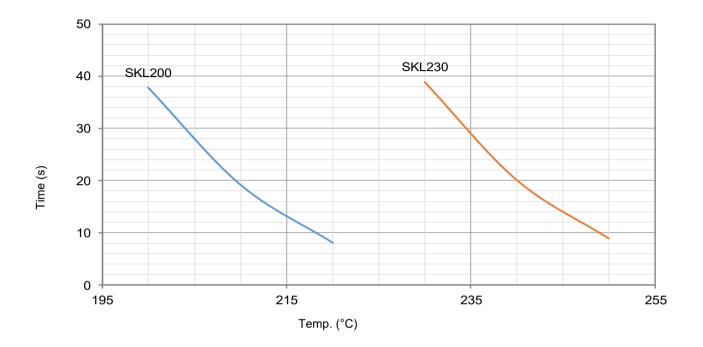




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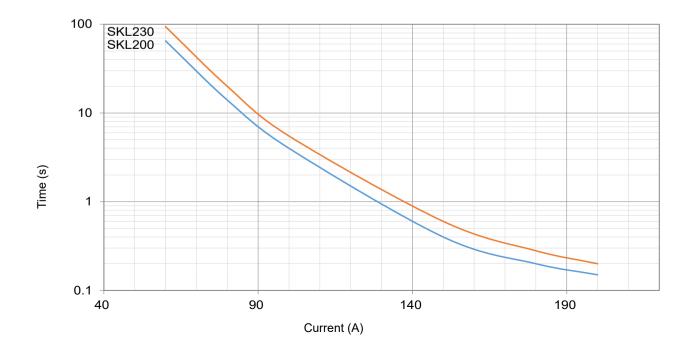
Product Temp.-Time Curve (Reference)

The Temp.-Time Curve of Thermal-Link in different temp. oil bath.



Product Current-Time Curve (Reference)

The Current-Time Curve shows functioning time at multi-times rated current at room temperature 25 ± 2 °C.





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Packaging Information

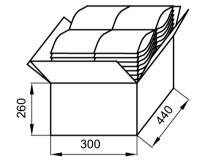
Bulk

Item	PE Bag	Carton
Dimensions (mm)	190 × 180	440 × 300 × 260
Quantity (PCS)	50	3000
Gross Weight (kg)		17.5 ± 10%

50 PCS

S 180

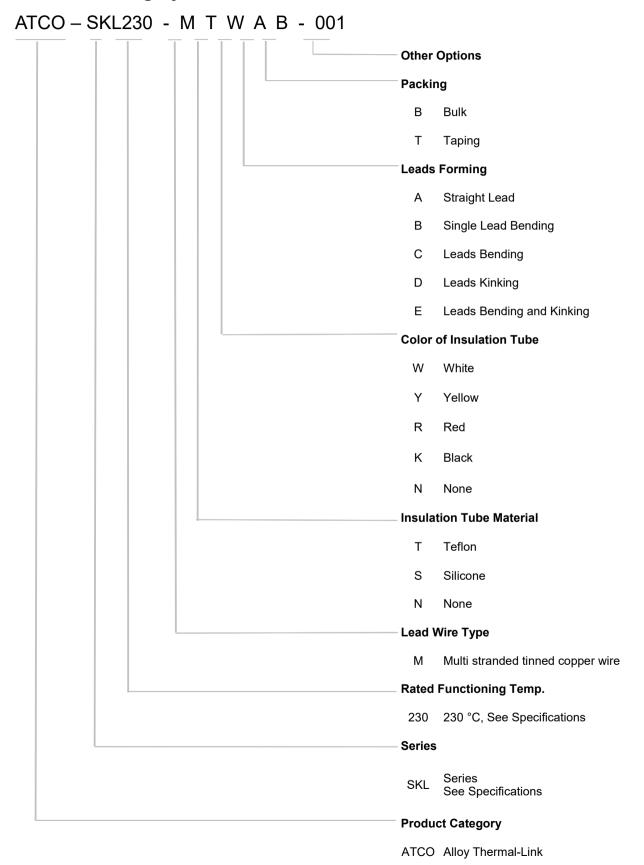
60 Bags





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Part Numbering System



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Glossary

Item	Description
	Thermal-Link
	A non-resettable device incorporating a THERMAL ELEMENT which will open a circuit once only when exposed for a
TCO	sufficient length of time to a temperature in excess of that for which it has been designed.
	— (GB 9816.1
	Alloy Thermal-Link
ATCO	Alloy Type Thermal-Link, Alloy is the thermal element.
	— (GB 9816.1
	Rated Functioning Temp. The temperature of the Alloy Thermal-Link which causes it to change the state of conductivity with a detection current up to
	10 mA as the only load.
Tf	
	— (GB 9816.1
	Tolerance: <i>T</i> _f °C (GB 9816.1, EN 60691, K60691).
	Tolerance: $T_{\rm f} \pm 7 ^{\circ}{\rm C}$ (J60691).
	Fusing Temp.
	The temperature of the Alloy Thermal-Link which causes it to change its state of conductivity is measured with silicone oil
Fusing Temp.	bath in which the temperature is increased at the rate of 0.5 °C to 1 °C / minute, with a detection current up to 10 mA as the
	only load. — (GB 9816.1
	Holding Temp.
T _h	The Maximum temperature at which a Alloy Thermal-Link will not change its state of conductivity when conducting rated
	current for 168 hours. — (GB 9816.1
	Maximum Temp. Limit
$ au_{ m m}$	The temperature of the Alloy Thermal-Link stated by the manufacturer, up to which the mechanical and electrical properties of the Alloy Thermal-Link having changed its state of conductivity, will not be impaired for a given time.
	- (GB 9816.1) — (GB 9816.1)
	Rated Current
l _r	The current used to classify a Alloy Thermal-Link, which is the Maximum current that Alloy Thermal-Link allows to carry and is able to cut off the circuit safely.
	— (GB 9816.1
	Rated Voltage
U _r	The voltage used to classify a Alloy Thermal-Link, which is the Maximum voltage that Alloy Thermal-Link allows to carry and is able to cut off the circuit safely.
	— (GB 9816.1
	Nominal Discharge Current
<i>I</i> n	Being able to withstand 15 peak currents of waveform 8/20 µs to test the product's durability of withstanding pulse current.
	— (UL 1449)
	Max. Discharge Current
I _{max}	Being able to withstand 1 peak current of waveform 8/20 µs to test max. pulse current that the product can withstand.
	— (UL 1449)

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ATTENTION

Usage

- 1. When atmosphere pressure is from 80 kPa to 106 kPa, the related altitude shall be from 2000 meters to 500 meters.
- 2. Operating voltage less than rated voltage of ATCO, operating current less than rated current of ATCO.
- 3. Do not touch the ATCO body or lead wires directly when power is on, to avoid burn or electric shock.

Replace

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

Storage

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

Installation

Make Sure the Temp. of Installation Position.

- 1. It is recommended that a dummy ATCO with inbuilt thermo-couple shall be used to determine the proper temp.
- 2. The terminal product should be tested to ensure that potential abnormal conditions do not cause ambient temp. to exceed the T_m of the ATCO.
- 3. Mount the ATCO at the location where temp. rises evenly.

Installation position of mechanical performance requirements.

- 1. Do not locate the ATCO in a place where severe vibration always occurs.
- 2. Ensure that the lead wire is long enough, and avoid actions such as press, tensile or twist.
- 3. The seal or body of ATCO must not be damaged, burned or over heated.



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Mechanical Connection

Riveting

- 1. Choose small resistivity riveting material and be riveted.
- 2. A flexible lead or lead with low resistance should be used to rivet the ATCO.
- 3. Contact resistance should be minimal, large contact resistance will lead to higher temp., ATCO Functioning in advance.

Crimping

- 1. Choose small resistivity crimping material and be crimped.
- 2. A flexible lead or lead with low resistance should be used to rivet the ATCO.
- 3. Contact resistance should be minimal, large contact resistance will lead to higher Temp., ATCO Functioning in advance.

Lead Wire Forming

- 1. If lead wire has to be bent, please pay attention to the distance between body and bending point. Refer to Table T-3.
- 2. When bending leads, please use pincher or similar tools to fix the product as shown in Fig.T-2, to avoid damaging the product.
- 3. During forming and mounting, lead wire should not be cut, nicked, bent sharply, to avoid breaking the product.
- 4. Tangential forces on the leads must be avoided (i.e. pushing or pulling on the leads at angle to ATCO body) as such forces may damage the seal of ATCO.

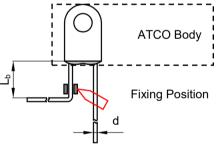




TABLE T-3 Distance between Body and Bending Point

	d	(mm)	< 1.0	1.0 - 1.2	> 1.2
Circular lead	L _b	(mm)	≥ 3	≥5	≥ 10

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SKL230			SKL200																			0	10		Radial Shane (Screw Hole)
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						N150			N136				N125			N115		N102				0	30		
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Thermal-Link (ATCO)-Alloy Type Feature & Model List Overview

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0 0	230	224	177	205	200	187	160	., , , 150	145	139		135	133 133	130	125	123	120	115	105	102	97	95	86	76	Ir (A) Rated Current	Ur (VAC) Rated Voltage	Product Structure
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SKL Series

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