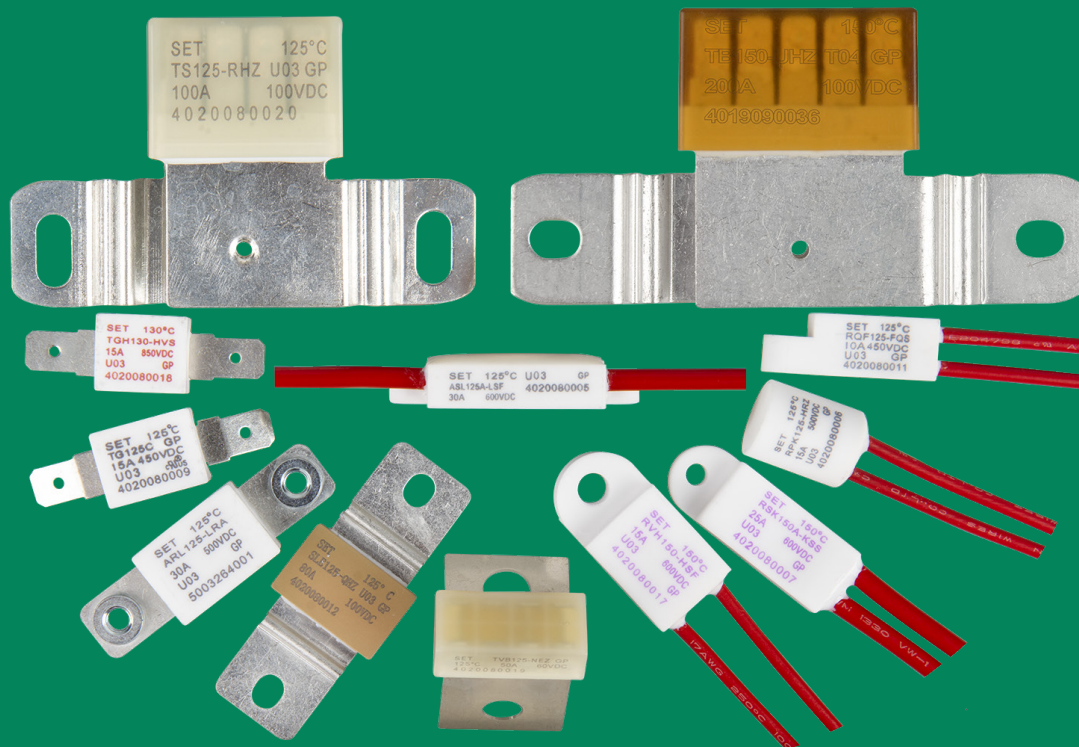


DC-ATCO

Thermal-Link

- Rated Current: (10~200) A
- Rated Voltage: (60 ~ 850) VDC
- Functioning Temperature: (76 ~ 230) °C
- Low Impedance, Low Power Consumption
- Non-Resettable
- Over Temp. Protection
- Superior Vibration Resistance
- Meet the Requirements of Vehicle Prohibited Substances



SET safe | **SET fuse**

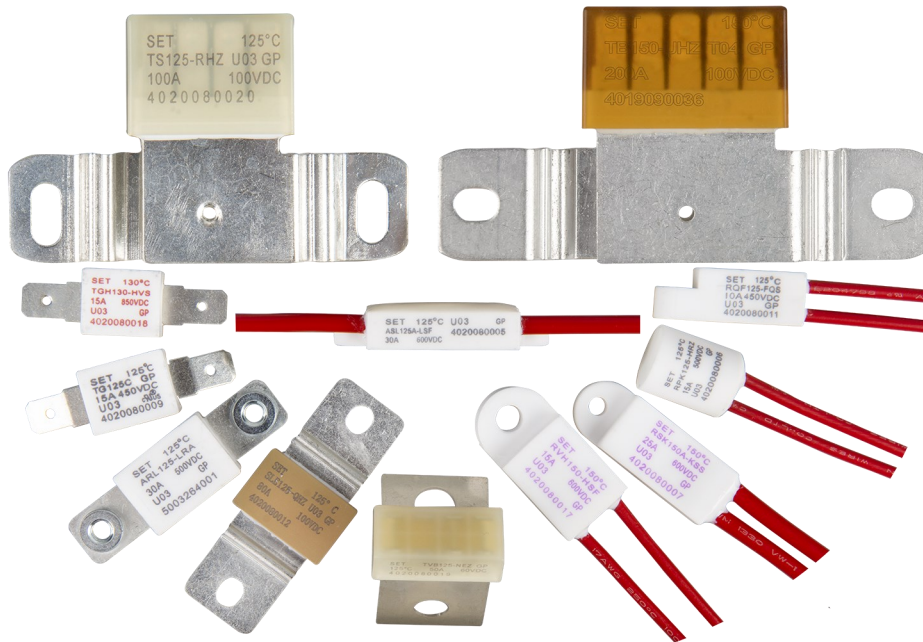
Providing a Total Solution for High Standard Safety Circuit Protection

DC-ATCO

DC-Alloy Thermal-Link

DC-ATCO

DC-ATCO



Features

Low Impedance, Low Power Consumption

Non-Resettable

Over Temp. Protection

Superior Vibration Resistance

RoHS & REACH Compliant

Rated Current: (10 to 200) A

Rated Voltage: (60 to 850) VDC

Rated Functioning Temp. : (76 to 230) °C

Patented product

DC-ATCO

DC-Alloy Thermal-Link

DC-ATCO

Thermal-Link (DC-ATCO) Features & Model List Overview

| Rated Functioning Temp. T_f (°C) | Rated Current $I_{F(A)}$ | Rated Voltage $U_{F(VDC)}$ | Model | Product Structure |
|------------------------------------|--------------------------|----------------------------|-------------|-------------------|
| 200 | 20 | 400 | | Axial Shape |
| 187 | 10 | 450 | RQF187-FQS | Radial Shape |
| 160 | 10 | 450 | RQF150-FQS | Radial Shape |
| 150 | 15 | 500 | TG150C-JPZ | Axial Shape |
| 145 | 15 | 500 | TG150C-HQZ | Axial Shape |
| 139 | 15 | 500 | RQF136-FQS | Radial Shape |
| 136 | 15 | 500 | TG136C-JPZ | Axial Shape |
| 135 | 15 | 500 | TG136C-HQZ | Axial Shape |
| 133 | 15 | 500 | | |
| 130 | 15 | 500 | RQF130-FQS | Radial Shape |
| 125 | 15 | 500 | RQF125-FQS | Radial Shape |
| 123 | 15 | 500 | | |
| 120 | 15 | 500 | | |
| 115 | 15 | 500 | TG115C-JPZ | Axial Shape |
| 105 | 15 | 500 | RQF115-FQS | Radial Shape |
| 102 | 15 | 500 | TG102C-JPZ | Axial Shape |
| 97 | 15 | 500 | RQF102-FQS | Radial Shape |
| 95 | 15 | 500 | | |
| 86 | 15 | 500 | RQF86-FQS | Radial Shape |
| 76 | 15 | 500 | TG86C-HQZ | Axial Shape |
| | 25 | 600 | RSK187A-KSS | Radial Shape |
| | 25 | 600 | RSK150A-KSS | Radial Shape |
| | 25 | 600 | RSK136A-KSS | Radial Shape |
| | 25 | 600 | RSK125A-KSS | Radial Shape |
| | 25 | 600 | RSK115A-KSS | Radial Shape |
| | 25 | 600 | RSK102A-KSS | Radial Shape |
| | 25 | 600 | ARL86-LRA | Axial Shape |
| | 30 | 500 | ARL187-LRA | Axial Shape |
| | 30 | 500 | ARL150-LRA | Axial Shape |
| | 30 | 500 | ARL136-LRA | Axial Shape |
| | 30 | 500 | ARL125-LRA | Axial Shape |
| | 30 | 500 | ARL115-LRA | Axial Shape |
| | 30 | 500 | ARL102-LRA | Axial Shape |
| | 30 | 500 | RVH136-HSF | Radial Shape |
| | 30 | 500 | RVH130-HSF | Radial Shape |
| | 30 | 500 | RVH125-HSF | Radial Shape |
| | 30 | 500 | RVH115-HSF | Radial Shape |
| | 30 | 500 | RVH102-HSF | Radial Shape |

DC-ATCO

DC-ATCO

DC-Alloy Thermal-Link

DC-ATCO

DC-ATCO

Thermal-Link (DC-ATCO) Features & Model List Overview

| Rated Functioning Temp. T_f (°C) | Model | Page |
|------------------------------------|-------------|------|
| 200 | | |
| 187 | ASL187A-LSF | |
| 160 | TGH187-HVS | |
| 150 | TGH150-HVS | |
| 145 | TG150C-JSZ | |
| 139 | | |
| 136 | ASL136A-LSF | |
| 135 | TGH136-HVS | |
| 133 | | |
| 130 | TGH130-HVS | |
| 125 | TGH125-HVS | |
| 123 | TG125C-JSZ | |
| 120 | | |
| 115 | ASL115A-LSF | |
| 105 | TGH115-HVS | |
| 102 | ASL102A-LSF | |
| 97 | | |
| 95 | | |
| 86 | TG86C-HSZ | |
| 76 | | |

| Rated Current $I_{(R)}$ | Rated Voltage $U_{(R)}$ (VDC/VAC) | Product Structure |
|-------------------------|-----------------------------------|-------------------|
| 30 | 600 (VDC) | Radial Shape |
| 15 | 850 (VDC) | Radial Shape |
| 15 | 600 (VAC) | Axial Shape |
| 20 | 100 (VDC) | Radial Shape |
| 200 | 100 (VDC) | Radial Shape |
| 200 | 125 (VAC) | Radial Shape |
| 100 | 100 (VDC) | Radial Shape |
| 100 | 125 (VAC) | Radial Shape |

DC-ATCO

DC-Alloy Thermal-Link

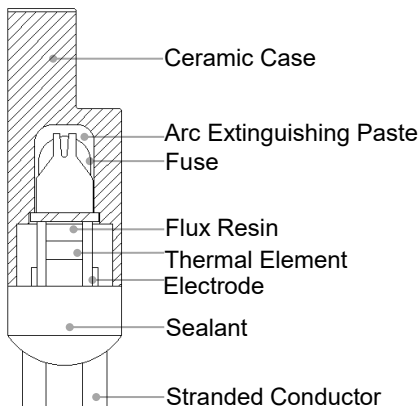
Description

DC-Alloy Thermal-Link / DC-Alloy Thermal Cutoff (DC-ATCO) is defined as a non-resettable protective device functioning one time only. It is widely used in electrical equipment and electric vehicle. DC-ATCO is mainly consist of Thermal Element, Flux Resin, Case, Sealant and Lead Wires. Normally, thermal element is jointed to the two lead wires. Under abnormal conditions, when the temp. reaches to the fusing temp. of DC-ATCO, the thermal element melts and quickly retracts to the two lead wire ends with the aid of the flux resin and disconnects the circuit completely. SETsafe | SETfuse DC-Alloy Thermal-Link is classified into Axial and Radial shapes, with Rated Current 10 A to 200 A, Rated Functioning Temp. 76 °C to 230 °C, with UL, cUL Approvals and RoHS, REACH compliant.

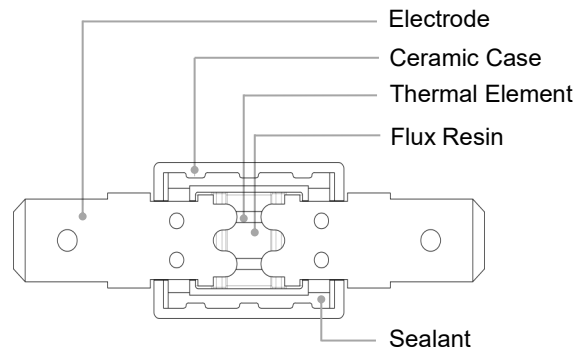
DC-ATCO

DC-ATCO

Structure

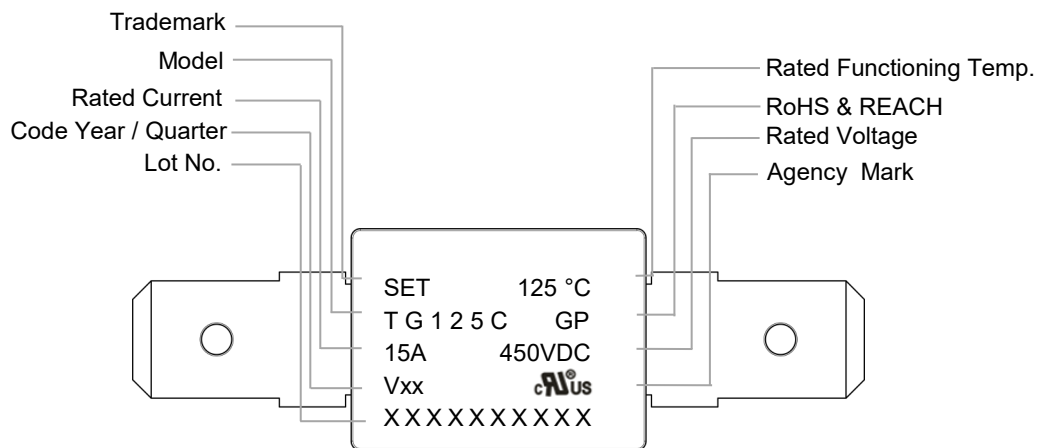


Axial Shape



Radial Shape

Marking



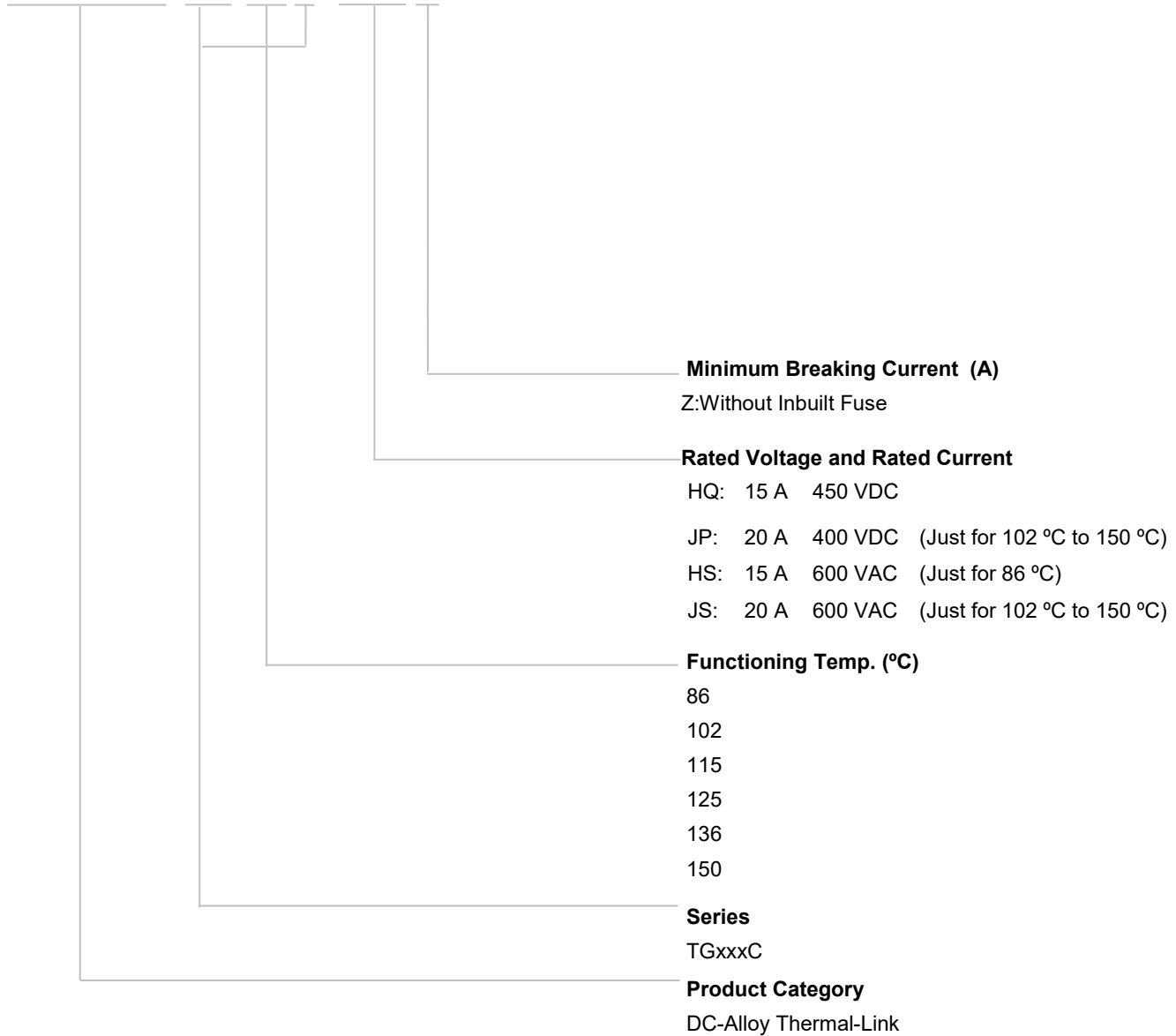
DC-ATCO
DC-Alloy Thermal-Link

Part Number System

DC-ATCO-TG125C - H Q Z

DC-ATCO

DC-ATCO



Glossary

| Item | Description |
|-----------------------------|--|
| TCO | <p>Thermal-Link</p> <p>A non-resettable device incorporating a THERMAL ELEMENT which will open a circuit once only when exposed for a sufficient length of time to a temperature in excess of that for which it has been designed.</p> |
| ATCO | <p>Alloy Thermal-Link</p> <p>Alloy Type Thermal-Link, Alloy is the thermal element.</p> |
| DC-ATCO | <p>DC-Alloy Thermal-Link</p> <p>Direct Current Alloy Thermal-Link.</p> |
| T_f | <p>Rated Functioning Temp.</p> <p>The temperature of the Thermal-Link which causes it to change the state of conductivity with a detection current up to 10 mA as the only load.</p> <p>Tolerance: T_f 0 / -10 °C (GB 9816, EN 60691, K60691).</p> <p>Tolerance: $T_f \pm 7$ °C (J60691).</p> |
| Fusing Temp. | <p>Fusing Temp.</p> <p>The temperature of the Alloy Thermal-Link which causes it to change its state of conductivity is measured with silicone oil 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.</p> |
| T_h | <p>Holding Temp.</p> <p>The Maximum temperature at which a Thermal-Link will not change its state of conductivity when conducting rated current for 168 hours.</p> |
| T_m | <p>Maximum Temp. Limit</p> <p>The temperature of the Thermal-Link stated by the manufacturer, up to which the mechanical and electrical properties of the Thermal-Link having changed its state of conductivity, will not be impaired for a given time.</p> |
| I_{min} | <p>Minimum Breaking Current</p> <p>The minimum current that Fuse requires after the Alloy of Thermal-Link opens in the circuit.</p> |
| I_r | <p>Rated Current</p> <p>The current used to classify a Thermal-Link, which is the maximum current that Thermal-Link allows to carry and is able to cut off the circuit safely.</p> |
| U_r | <p>Rated Voltage</p> <p>The voltage used to classify a Thermal-Link, which is the maximum voltage that Thermal-link allows to carry and is able to cut off the circuit safely.</p> |



ATTENTION

Usage

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

Replacement

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

Storage

Do not store the DC-ATCO at the high temp., high humidity or corrosive gas environment. The product shall be stored at 25 ± 5 °C and $\leq 70\%$ RH, avoid direct sunlight and shall use them up within 1 year after receiving the goods.

Installation

Make Sure the Temp. of Installation Position

1. It is recommended that a dummy DC-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 DC-ATCO.
3. Mount the DC-ATCO at the location where Temp. rises evenly.

DC-ATCO

DC-Alloy Thermal-Link

Installation position of mechanical performance requirements.

1. Ensure that the electrode lead is long enough, and avoid actions such as press, tensile or twist.
2. The seal or body of DC-ATCO must not be damaged, burned or over heated.

Mechanical Connection

Riveting

Suitable for the stranded conductor diameter (d) of DC-ATCO ≥ 1.2 mm.

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

Soldering

Hand-Soldering

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

TABLE -1 Hand-Soldering Time

| Rated Functioning Temp. (T_f) | Max. Allowable Soldering Time for Different Stranded Conductor Length (Fig.-1) | | | | | | Max. Soldering Temp. |
|-----------------------------------|--|----------------|--------------|------|--------------|------|----------------------|
| | L_5 Length | Time | L_5 Length | Time | L_5 Length | Time | |
| (°C) | (mm) | (s) | (mm) | (s) | (mm) | (s) | (°C) |
| 76 ~ 101 | 10 | 1 ^a | 20 | 2 | 30 | 3 | 400 |
| 102 ~ 115 | 10 | 1 ^a | 20 | 2 | 30 | 3 | |
| 116 ~ 135 | 10 | 1 ^a | 20 | 3 | 30 | 5 | |
| 136 ~ 150 | 10 | 3 | 20 | 5 | 30 | 5 | |
| 151 ~ 230 | 10 | 4 | 20 | 6 | 30 | 7 | |

DC-ATCO

DC-Alloy Thermal-Link

Note:

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

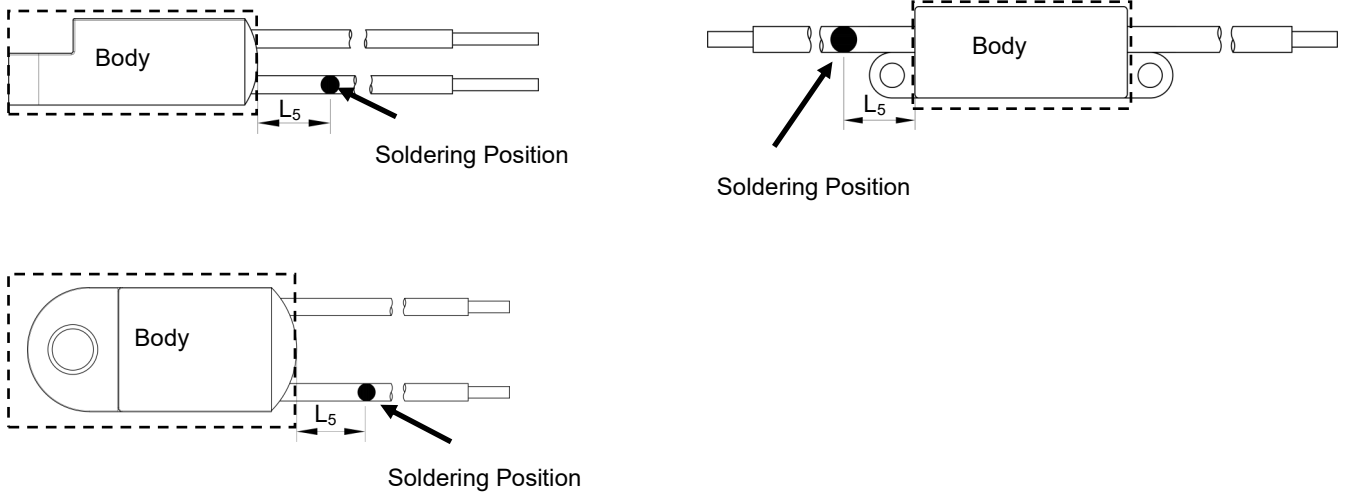


FIGURE -1

Stranded Conductor Forming

1. If stranded conductor has to be bent, please pay attention to the distance between body and bending point. Refer to the following table.
2. When bending stranded conductor, please use pincher or similar tools to fix the product as shown in Figure -2, to avoid damaging the product. The distance L_6 between the bending position and DC-ATCO sealing end should refer to Table -2.
3. During forming and mounting, stranded conductor should not be cut, nicked, bent sharply, to avoid breaking the product.
4. Tangential forces on the stranded conductor must be avoided (i.e. pushing or pulling on the stranded conductor at angle to DC-ATCO body) as such forces may damage the seal of DC-ATCO.
5. Bending radius R : $\geq 15d$, as shown in Figure -2.

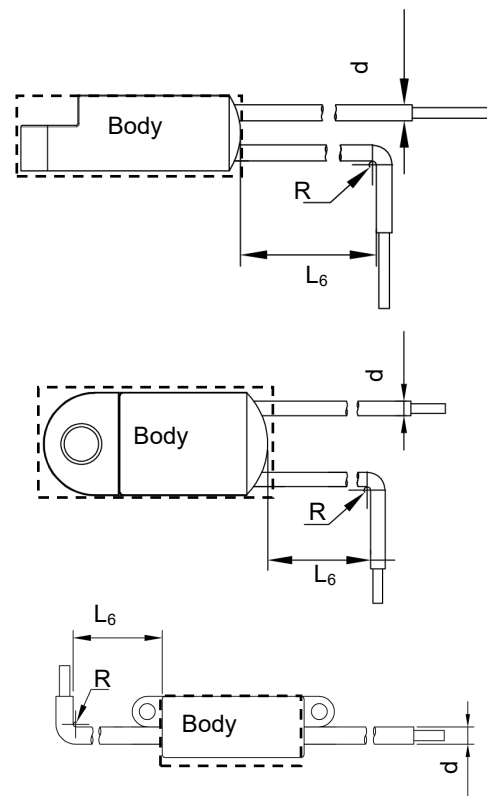


FIGURE -2

TABLE - 2 Distance between Body and Bending Point

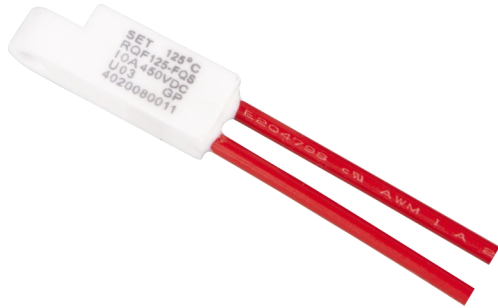
| | | | |
|------------|------------|-----------|-----------|
| d (mm) | ≤ 1.0 | 1.0 - 1.2 | > 1.2 |
| L_6 (mm) | ≥ 3 | ≥ 5 | ≥ 10 |

Patents

DC-ATCO

DC-ATCO

| Name | Region | Category |
|--|--------|---------------|
| Thermal-Link | China | Utility Model |
| Thermal-Link | China | Utility Model |
| A High-voltage fuse device | China | Utility Model |
| A high-current thermal Link | China | Utility Model |
| A high-voltage fuse | China | Utility Model |
| A thermal fuse with arc extinguishing medium | China | Utility Model |
| A high-voltage direct current cut-off device | China | Utility Model |
| A high-voltage direct current thermal Link | China | Utility Model |
| A laminated type temperature safety device | China | Utility Model |
| A high-voltage direct current temperature fuse | China | Utility Model |



Features

- Operating Voltage
- High Accuracy of Functioning Temp.
- Ceramic Case
- Non-Resettable
- RoHS & REACH Compliant

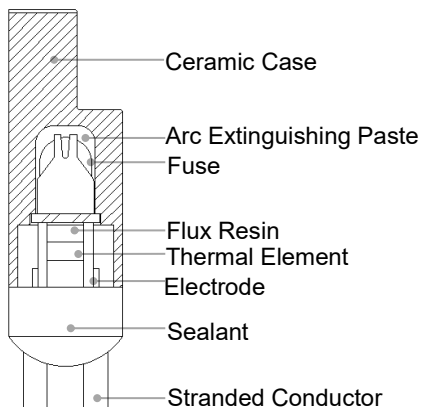
Applications

- Battery Cooling Systems
- Pre-charged Resistors
- Automotive Air-Conditioners
- Heaters

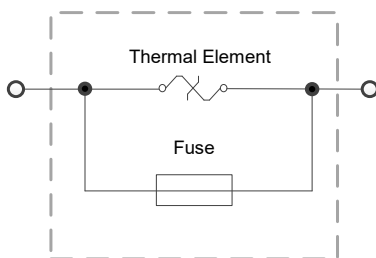
Customization

- Rated Functioning Temp.
- The Shape of Stranded Conductor

Structure Diagram



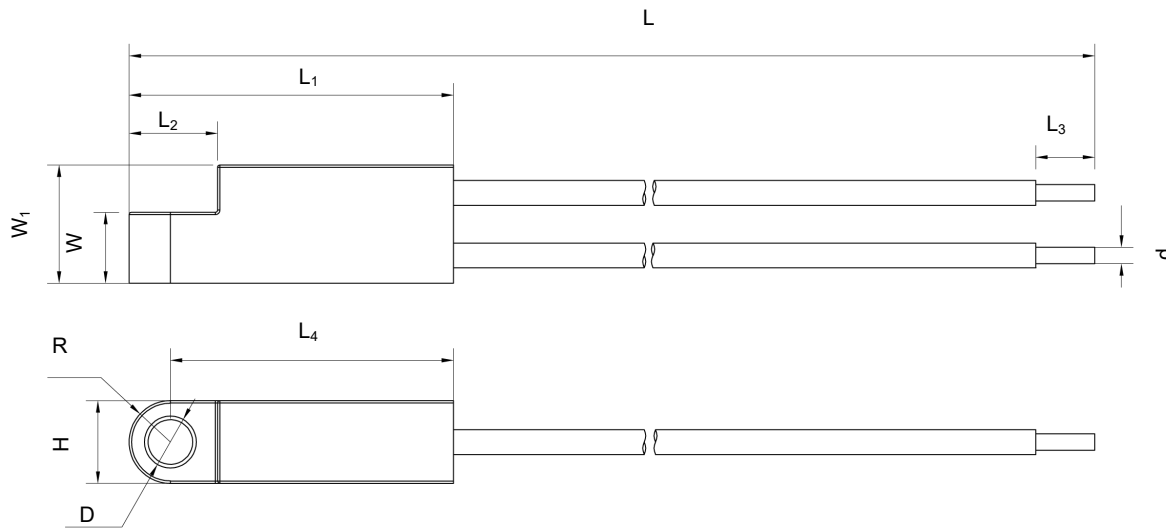
Product Schematic



Agency Approvals

| Agency Mark | Standards | File No. |
|-------------|----------------|----------|
| | UL60691 | On-going |
| | CAN-CSA-E60691 | On-going |

Dimensions (mm)



DC-ATCO

DC-ATCO

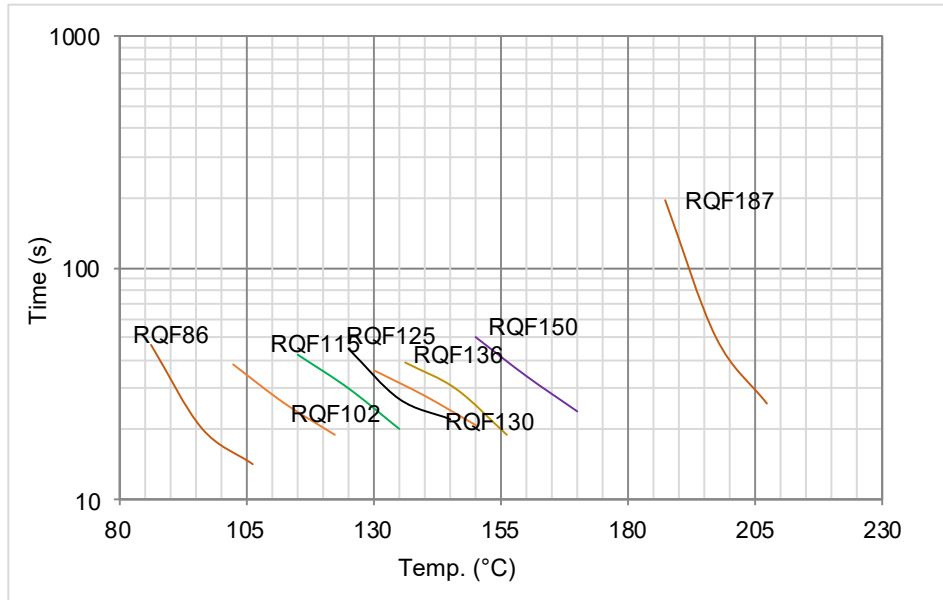
| L | L ₁ | L ₂ | L ₃ | L ₄ | W | W ₁ | H | R | D | d |
|-------------|----------------|----------------|----------------|----------------|-----------|----------------|-----------|-----------|-----------|-------|
| 127.5 ± 5.0 | 27.5 ± 1.0 | 7.5 ± 0.5 | 5.0 ± 0.5 | 24.0 ± 1.0 | 6.0 ± 0.5 | 10.0 ± 1.0 | 7.0 ± 0.5 | 3.5 ± 0.2 | 3.8 ± 0.2 | AWG16 |

Specifications

| Model | T_r | Fusing Temp. with Load | T_h | T_m | I_{min} | I_r | U_r | UL [®] | cUL [®] | TUV | VDE | CCC | RoHS REACH |
|------------|-------|------------------------|-------|-------|-----------|-------|--------|-----------------|------------------|-----|-----|-----|------------|
| | (°C) | (°C) | (°C) | (°C) | (A) | (A) | (V) | UL | cUL | TUV | VDE | CCC | |
| RQF86-FQS | 86 | 77 ± 3 | 45 | 250 | 3 | 10 | DC 450 | ○ | ○ | ○ | ○ | ○ | ● |
| RQF102-FQS | 102 | 95 ± 3 | 75 | 250 | 3 | 10 | DC 450 | ○ | ○ | ○ | ○ | ○ | ● |
| RQF115-FQS | 115 | 110 ± 3 | 85 | 250 | 3 | 10 | DC 450 | ○ | ○ | ○ | ○ | ○ | ● |
| RQF125-FQS | 125 | 116 ± 3 | 85 | 250 | 3 | 10 | DC 450 | ○ | ○ | ○ | ○ | ○ | ● |
| RQF130-FQS | 130 | 119 ± 3 | 95 | 250 | 3 | 10 | DC 450 | ○ | ○ | ○ | ○ | ○ | ● |
| RQF136-FQS | 135 | 124 ± 3 | 100 | 250 | 3 | 10 | DC 450 | ○ | ○ | ○ | ○ | ○ | ● |
| RQF150-FQS | 150 | 143 ± 3 | 115 | 250 | 3 | 10 | DC 450 | ○ | ○ | ○ | ○ | ○ | ● |
| RQF187-FQS | 187 | 183 ± 3 | 155 | 250 | 3 | 10 | DC 450 | ○ | ○ | ○ | ○ | ○ | ● |

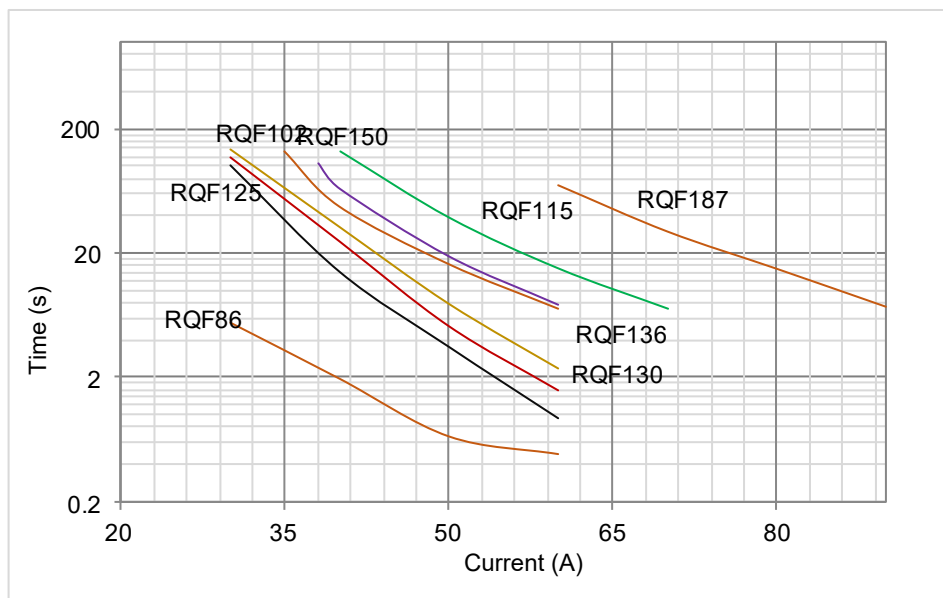
Temp.-Time Curve

The functioning temperature time curve of Alloy Thermal-Link in different Temp. oil bath. (This curve is for reference only)



Current-Time Curve

This is an illustrated curve, describing the opening time at Multi-times rated current in the condition of the room Temp. 25 °C. (This curve is for reference only)

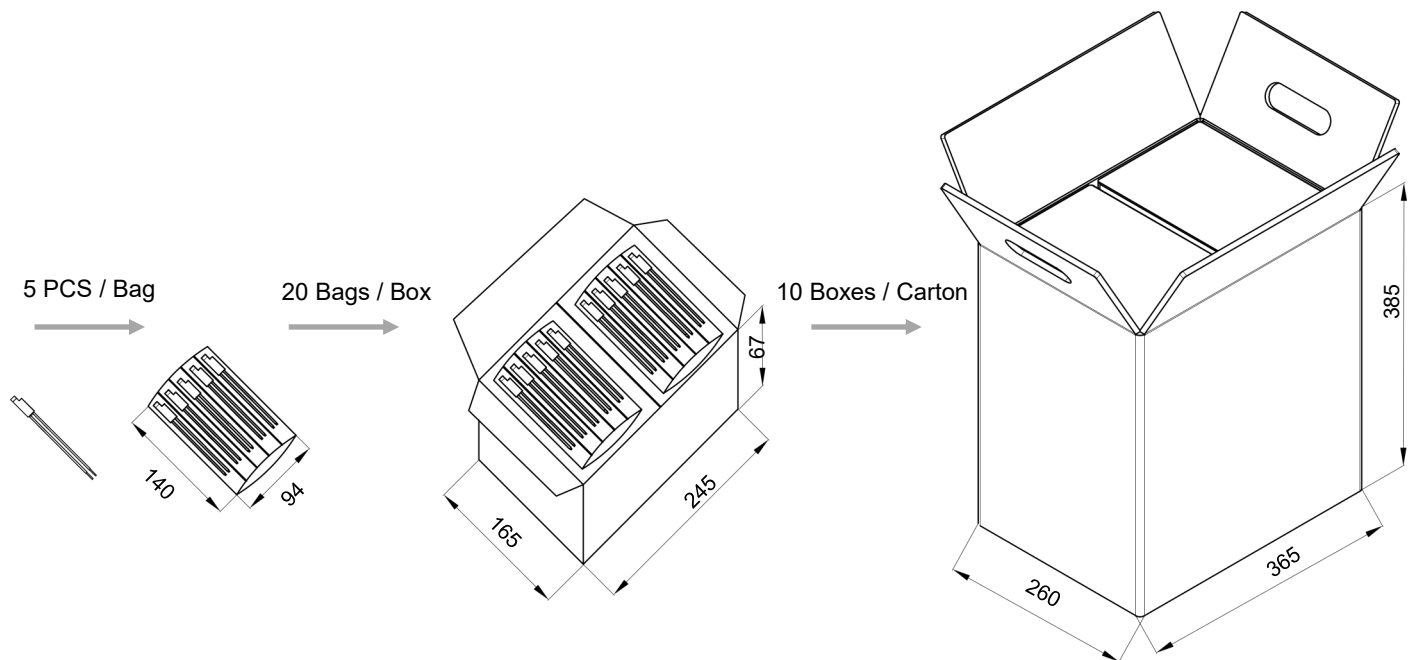


Packaging Information

| Item | PE Bag | Box | Carton |
|--------------------|----------|----------------|-----------------|
| Dimensions (mm) | 140 x 94 | 245 x 165 x 67 | 365 x 260 x 385 |
| Quantity (PCS) | 5 | 100 | 1000 |
| Gross Weight (kg): | | | 20 ± 10% |

DC-ATCO

DC-ATCO

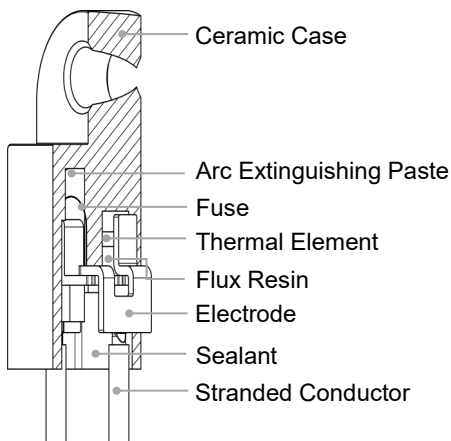




DC-ATCO

DC-ATCO

Structure Diagram



Features

- Operating Voltage
- High Accuracy of Functioning Temp.
- Ceramic Case
- Non-Resettable
- RoHS & REACH Compliant

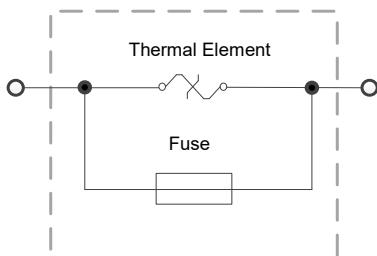
Applications

- Battery Cooling Systems
- Pre-charged Resistors
- Automotive Air-Conditioners
- Heaters


Customization

- Rated Functioning Temp.
- The Shape of Stranded Conductor

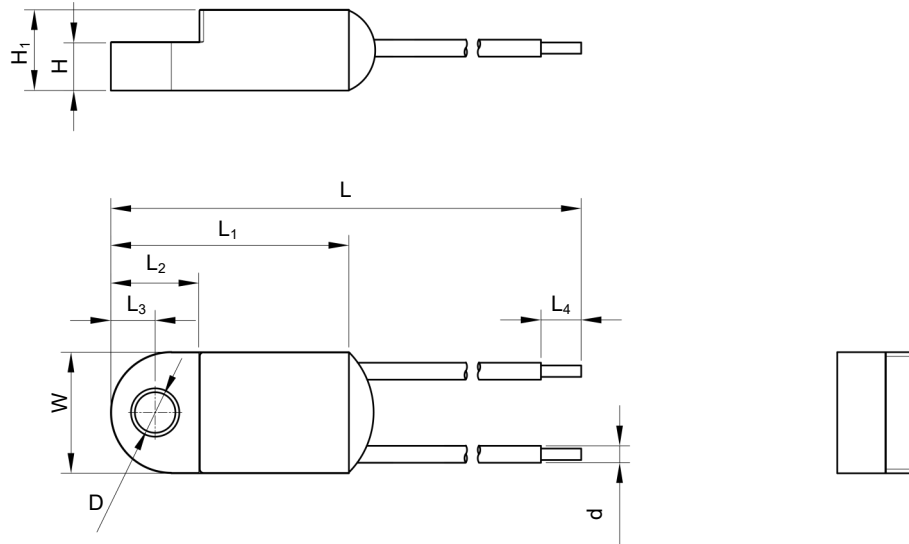
Product Schematic



Agency Approvals






| Agency Mark | Standards | File No. |
|---|----------------|----------|
|  | UL60691 | On-going |
|  | CAN-CSA-E60691 | On-going |

Dimensions (mm)



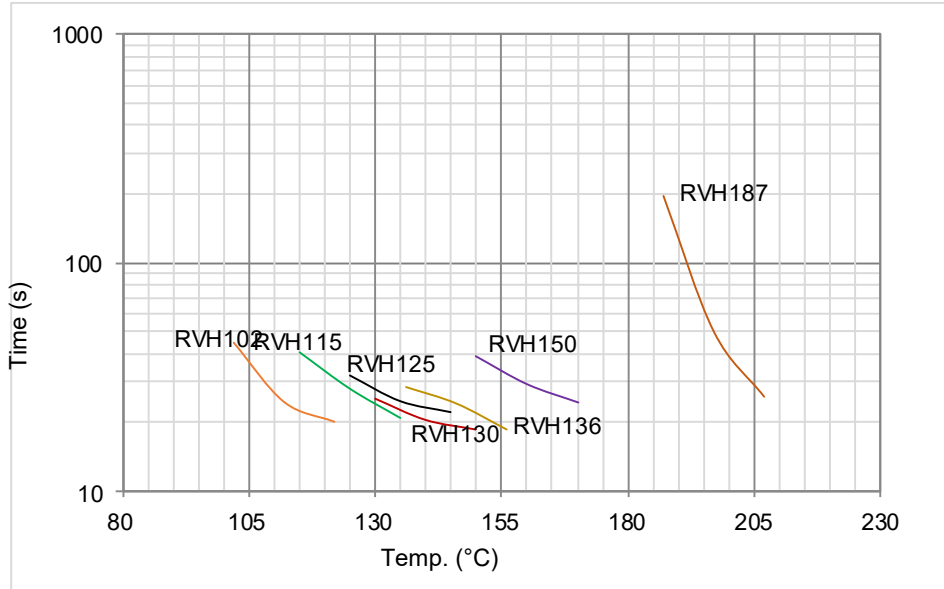
| L | L ₁ | L ₂ | L ₃ | L ₄ | W | H | H ₁ | D | d |
|-------------|----------------|----------------|----------------|----------------|------------|-----------|----------------|-----------|-------|
| 129.5 ± 5.0 | 29.5 ± 1.0 | 11.0 ± 0.5 | 5.5 ± 0.5 | 10.0 ± 1.0 | 15.0 ± 1.0 | 6.0 ± 0.5 | 10.0 ± 1.0 | 5.0 ± 0.5 | AWG17 |

Specifications

| Model | T_f | Fusing Temp. with Load | T_h | T_m | I_{min} | I_r | U_r |  |  |  |  |  | RoHS REACH |
|------------|-------|------------------------|-------|-------|-----------|-------|--------|---|---|---|---|---|------------|
| | (°C) | (°C) | (°C) | (°C) | (A) | (A) | (V) | UL | cUL | TUV | VDE | CCC | |
| RVH102-HSF | 102 | 89 ± 3 | 65 | 250 | 0.5 | 15 | DC 600 | ○ | ○ | ○ | ○ | ○ | ● |
| RVH115-HSF | 115 | 105 ± 3 | 72 | 250 | 0.5 | 15 | DC 600 | ○ | ○ | ○ | ○ | ○ | ● |
| RVH125-HSF | 125 | 100 ± 3 | 65 | 250 | 0.5 | 15 | DC 600 | ○ | ○ | ○ | ○ | ○ | ● |
| RVH130-HSF | 130 | 102 ± 3 | 60 | 250 | 0.5 | 15 | DC 600 | ○ | ○ | ○ | ○ | ○ | ● |
| RVH136-HSF | 135 | 107 ± 3 | 75 | 250 | 0.5 | 15 | DC 600 | ○ | ○ | ○ | ○ | ○ | ● |
| RVH150-HSF | 150 | 130 ± 3 | 100 | 250 | 0.5 | 15 | DC 600 | ○ | ○ | ○ | ○ | ○ | ● |
| RVH187-HSF | 187 | 182 ± 3 | 160 | 250 | 0.5 | 15 | DC 600 | ○ | ○ | ○ | ○ | ○ | ● |

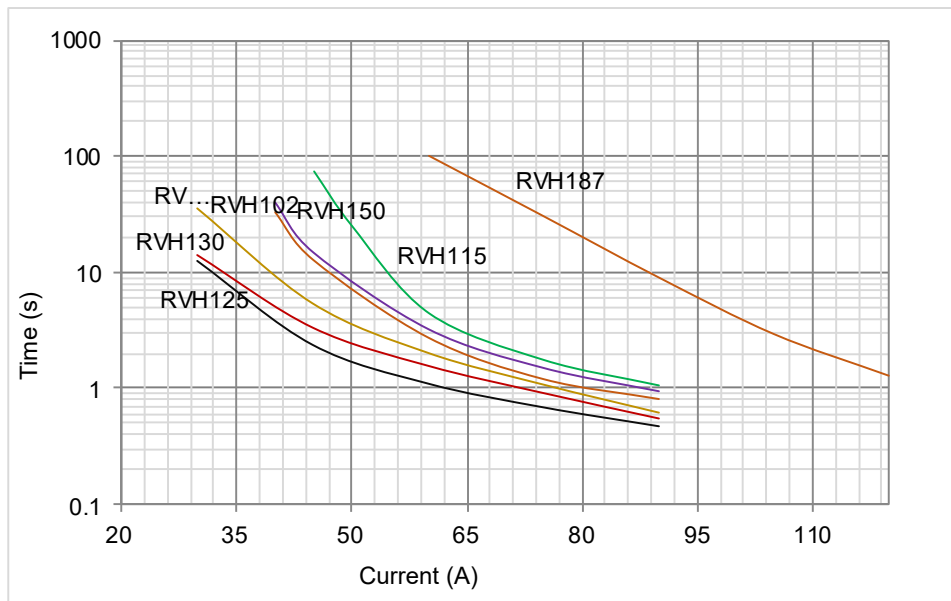
Temp.-Time Curve

The functioning temperature time curve of Alloy Thermal-Link in different Temp. oil bath. (This curve is for reference only)



Current-Time Curve

This is an illustrated curve, describing the opening time at Multi-times rated current in the condition of the room Temp. 25 °C. (This curve is for reference only)

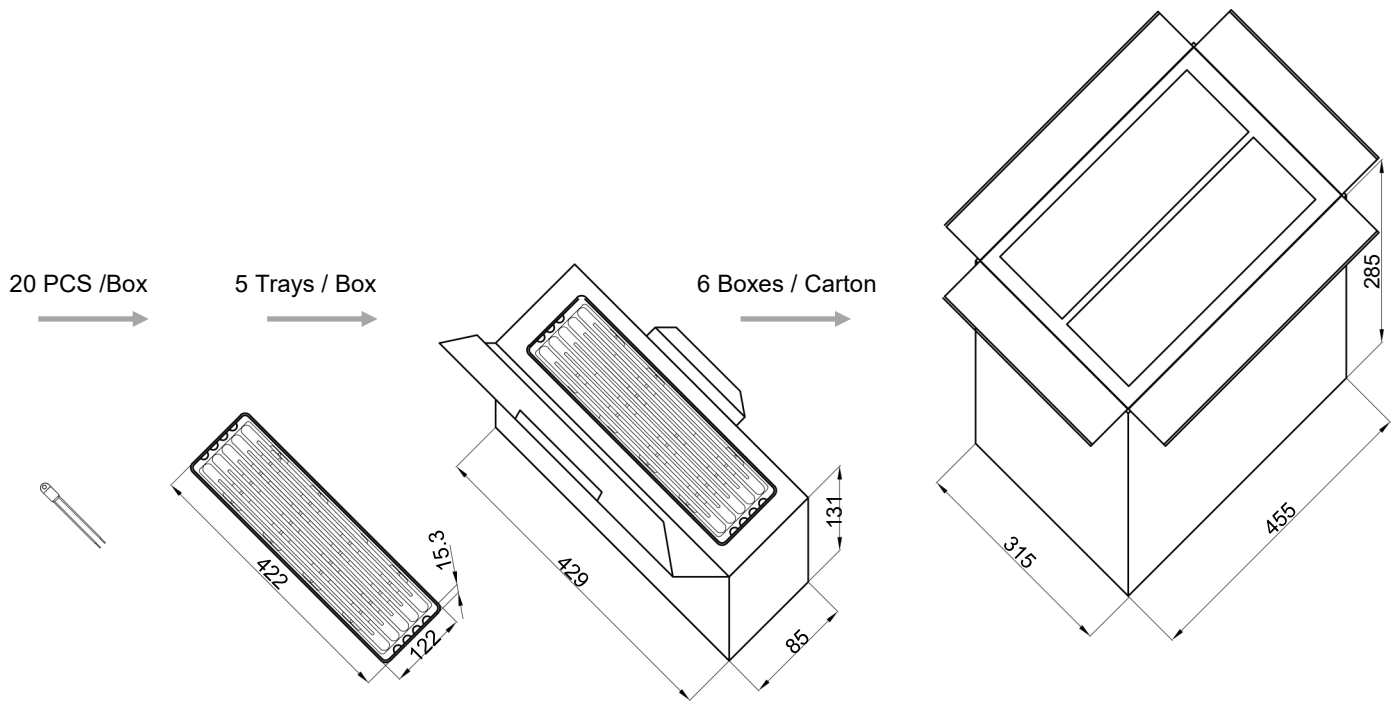


Packaging Information

| Item | Tray | Box | Carton |
|--------------------|------------------|----------------|-----------------|
| Dimensions (mm) | 422 x 122 x 15.3 | 429 x 85 x 131 | 455 x 315 x 285 |
| Quantity (PCS) | 20 | 100 | 600 |
| Gross Weight (kg): | | | 20 ± 10% |

DC-ATCO

DC-ATCO





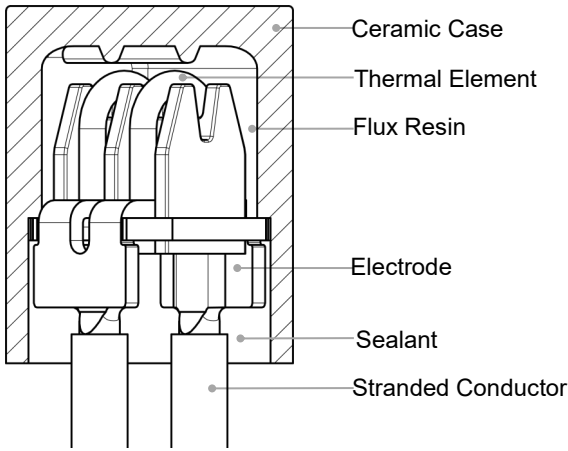
Features

- Operating Voltage
- High Accuracy of Functioning Temp.
- Ceramic Case
- Non-Resettable
- RoHS & REACH Compliant

Applications

- Battery Cooling Systems
- Pre-charged Resistors
- Automotive Air-Conditioners
- Heaters

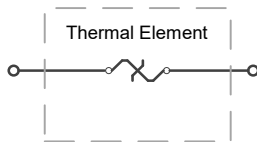
Structure Diagram




Customization

- Rated Functioning Temp.
- The Shape of Stranded Conductor

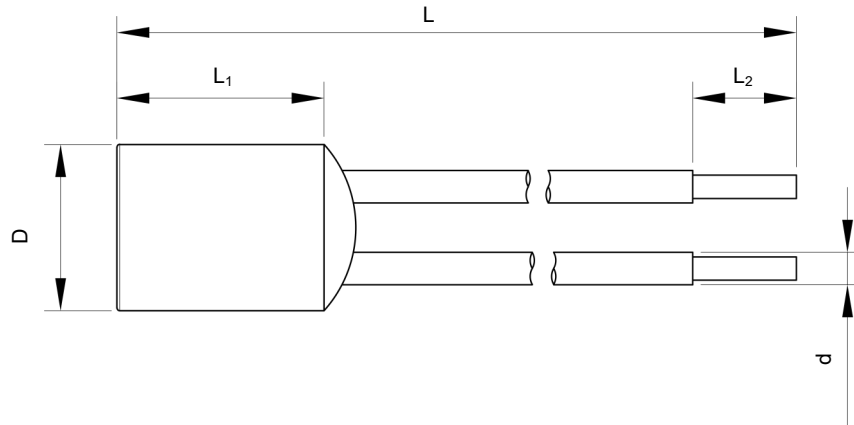
Product Schematic



Agency Approvals






| Agency Mark | Standards | File No. |
|---|----------------|----------|
|  | UL60691 | On-going |
|  | CAN-CSA-E60691 | On-going |

Dimensions (mm)



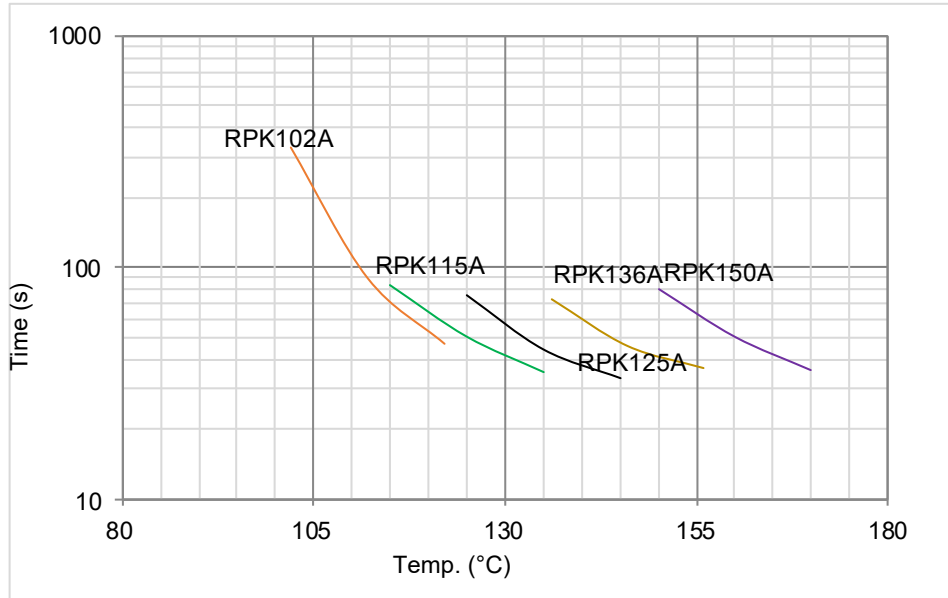
| L | L ₁ | L ₂ | D | d |
|-------------|----------------|----------------|------------|-------|
| 116.0 ± 5.0 | 16.0 ± 1.0 | 10.0 ± 1.0 | 12.8 ± 0.5 | AWG14 |

Specifications

| Model | T_f | Fusing Temp. | T_h | T_m | I_{min} | I_r | U_r |  |  |  |  |  | RoHS REACH |
|------------|-------|--------------|-------|-------|-----------|-------|--------|---|---|---|---|---|------------|
| | (°C) | (°C) | (°C) | (°C) | (A) | (A) | (V) | UL | cUL | TUV | VDE | CCC | |
| RPK102-HRZ | 102 | 97 ± 5 | 65 | 250 | 0 | 15 | DC 500 | ○ | ○ | ○ | ○ | ○ | ● |
| RPK115-HRZ | 115 | 110 ± 5 | 70 | 250 | 0 | 15 | DC 500 | ○ | ○ | ○ | ○ | ○ | ● |
| RPK125-HRZ | 125 | 125 ± 5 | 85 | 250 | 0 | 15 | DC 500 | ○ | ○ | ○ | ○ | ○ | ● |
| RPK136-HRZ | 136 | 131 ± 5 | 70 | 250 | 0 | 15 | DC 500 | ○ | ○ | ○ | ○ | ○ | ● |
| RPK150-HRZ | 150 | 145 ± 5 | 100 | 250 | 0 | 15 | DC 500 | ○ | ○ | ○ | ○ | ○ | ● |

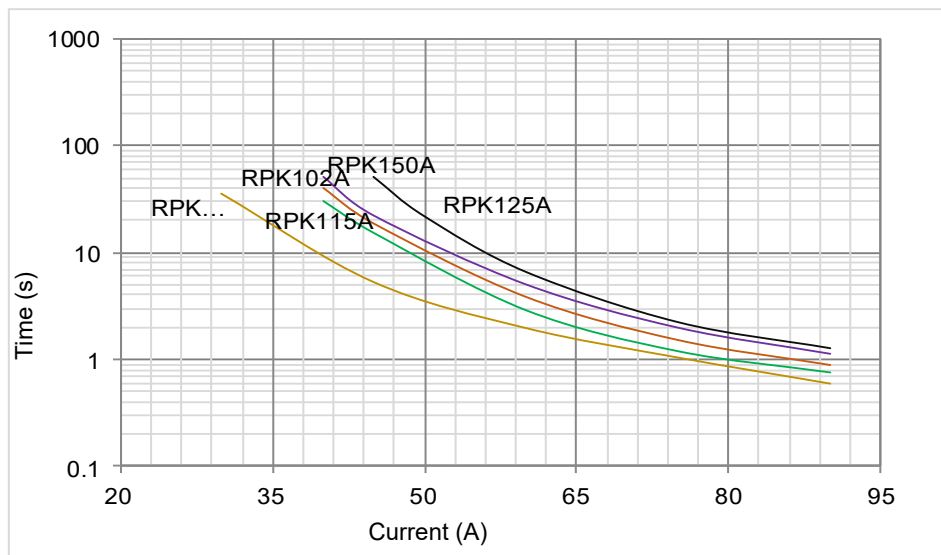
Temp.-Time Curve

The functioning temperature time curve of Alloy Thermal-Link in different Temp. oil bath. (This curve is for reference only)



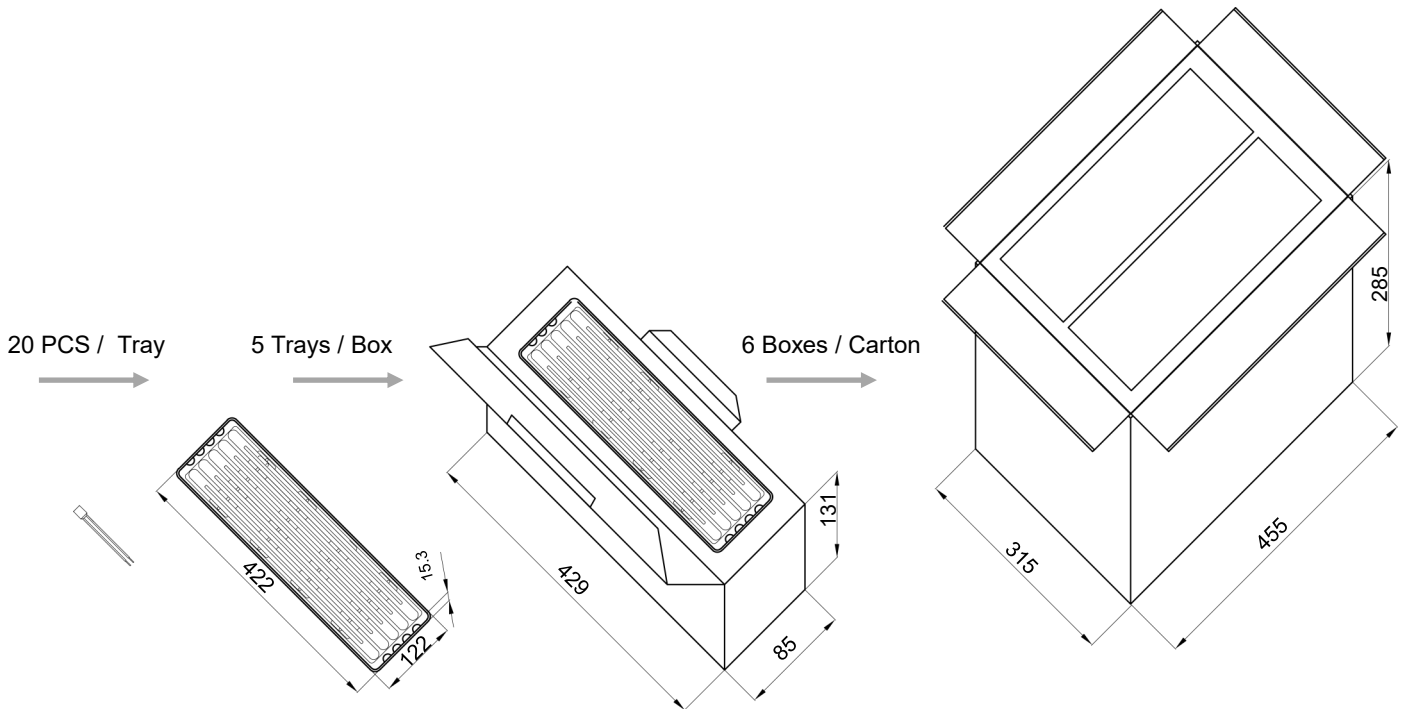
Current-Time Curve

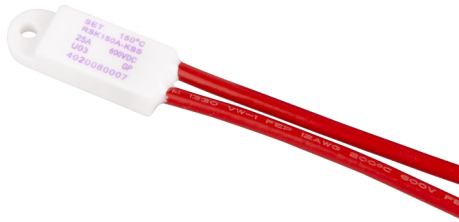
This is an illustrated curve, describing the opening time at Multi-times rated current in the condition of the room Temp. 25 °C. (This curve is for reference only)



Packaging Information

| Item | Tray | Box | Carton |
|--------------------|------------------|----------------|-----------------|
| Dimensions (mm) | 422 x 122 x 15.3 | 429 x 85 x 131 | 455 x 315 x 285 |
| Quantity (PCS) | 20 | 100 | 600 |
| Gross Weight (kg): | | | 20 ± 10% |





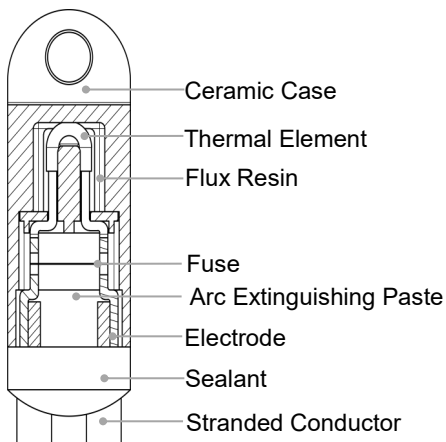
DC-ATCO

DC-ATCO

Features

- Operating Voltage
- High Accuracy of Functioning Temp.
- Ceramic Case
- Non-Resettable
- RoHS & REACH Compliant

Structure Diagram



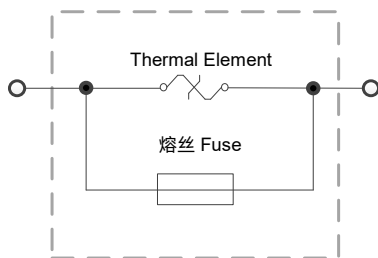
Applications

- Battery Cooling Systems
- Pre-charged Resistors
- Automotive Air-Conditioners
- Heaters

Customization

- Rated Functioning Temp.
- The Shape of Stranded Conductor

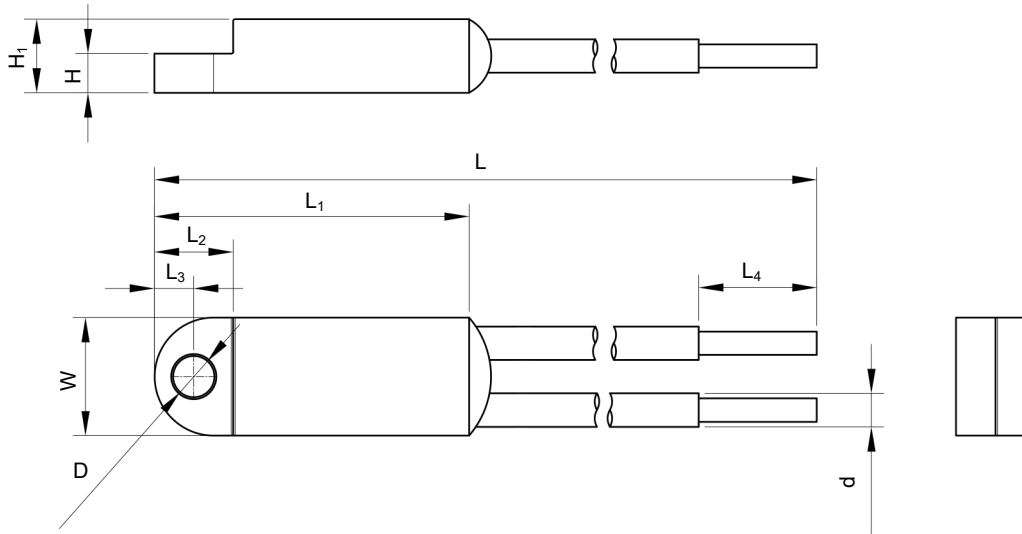
Product Schematic



Agency Approvals






| Agency Mark | Standards | File No. |
|-------------|----------------|----------|
| | UL60691 | On-going |
| | CAN-CSA-E60691 | On-going |

Dimensions (mm)



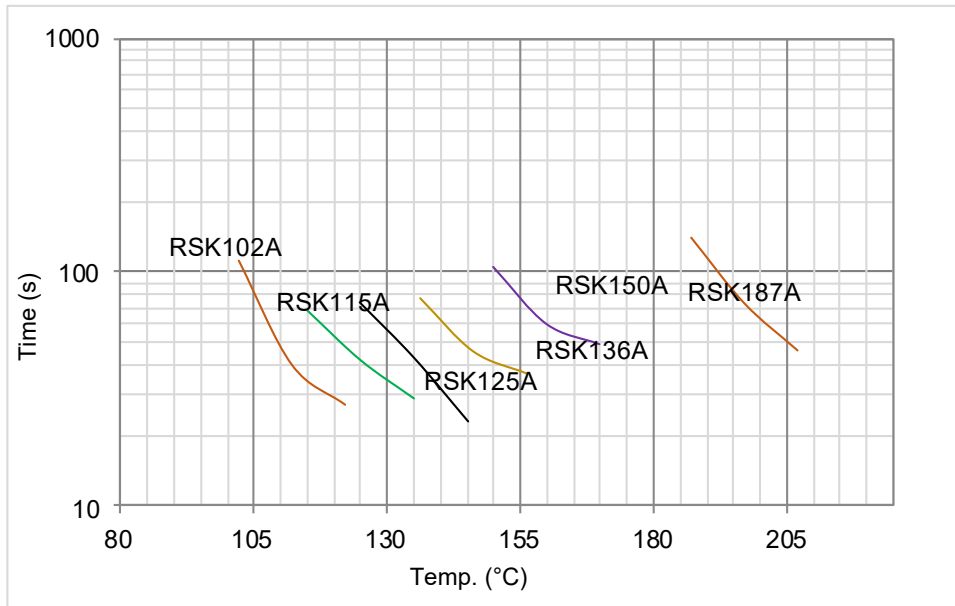
| L | L ₁ | L ₂ | L ₃ | L ₄ | W | H | H ₁ | D | d |
|-------------|----------------|----------------|----------------|----------------|------------|-----------|----------------|-----------|-------|
| 132.0 ± 5.0 | 32.0 ± 1.0 | 8.00 ± 0.5 | 4.0 ± 0.5 | 10.0 ± 1.0 | 12.0 ± 1.0 | 4.0 ± 0.5 | 7.5 ± 1.0 | 4.2 ± 0.5 | AWG12 |

Specifications

| Model | T_f | Fusing Temp. with Load | T_h | T_m | I_{min} | I_r | U_r |  |  |  |  |  | RoHS REACH |
|-------------|-------|------------------------|-------|-------|-----------|-------|--------|---|---|---|---|---|------------|
| | (°C) | (°C) | (°C) | (°C) | (A) | (A) | (V) | UL | cUL | TUV | VDE | CCC | |
| RSK102A-KSS | 102 | 82 ± 3 | 55 | 250 | 3.0 | 25 | DC 600 | ○ | ○ | ○ | ○ | ○ | ● |
| RSK115A-KSS | 115 | 95 ± 3 | 65 | 250 | 3.0 | 25 | DC 600 | ○ | ○ | ○ | ○ | ○ | ● |
| RSK125A-KSS | 125 | 105 ± 3 | 70 | 250 | 3.0 | 25 | DC 600 | ○ | ○ | ○ | ○ | ○ | ● |
| RSK136A-KSS | 135 | 116 ± 3 | 80 | 250 | 3.0 | 25 | DC 600 | ○ | ○ | ○ | ○ | ○ | ● |
| RSK150A-KSS | 150 | 130 ± 3 | 95 | 250 | 3.0 | 25 | DC 600 | ○ | ○ | ○ | ○ | ○ | ● |
| RSK187A-KSS | 187 | 167 ± 3 | 140 | 250 | 3.0 | 25 | DC 600 | ○ | ○ | ○ | ○ | ○ | ● |

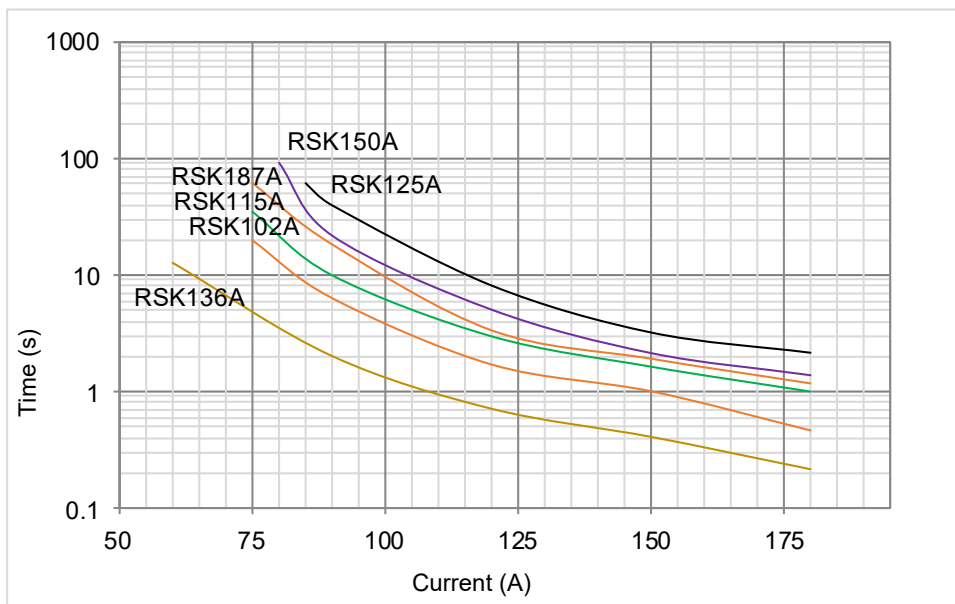
Temp.-Time Curve

The functioning temperature time curve of Alloy Thermal-Link in different Temp. oil bath. (This curve is for reference only)



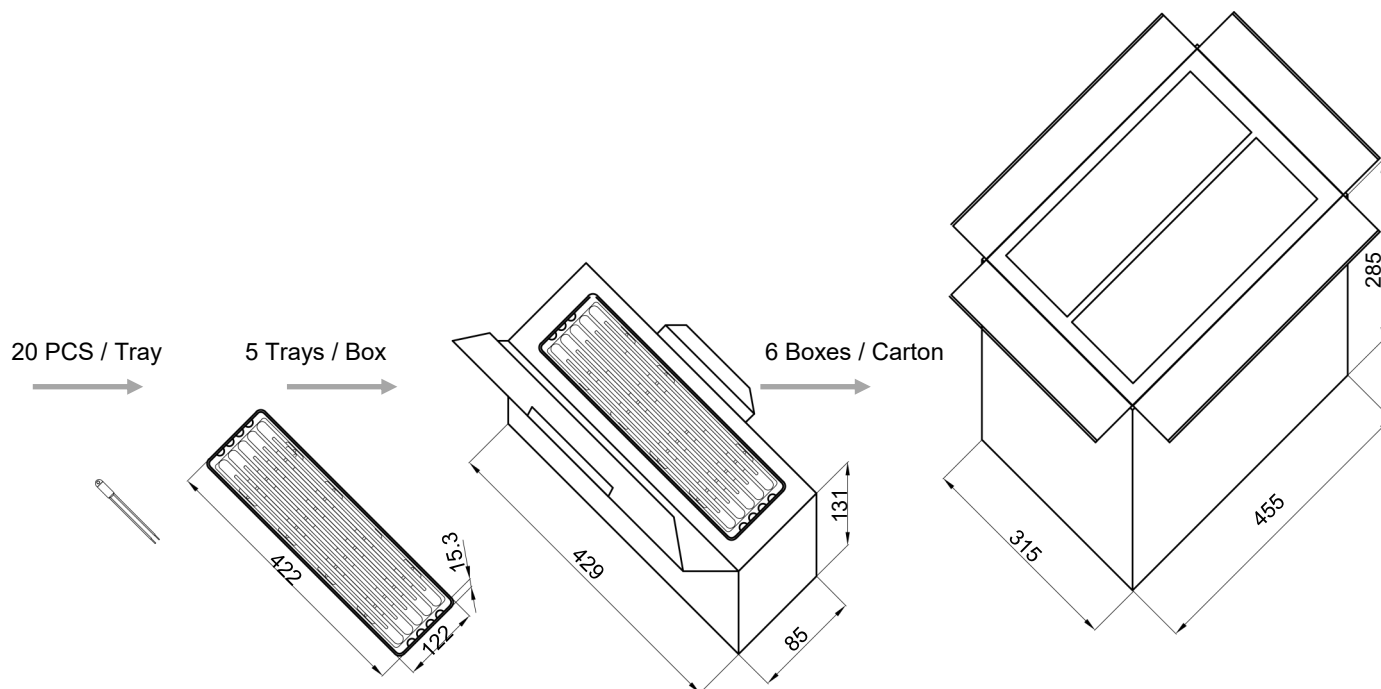
Current-Time Curve

This is an illustrated curve, describing the opening time at Multi-times rated current in the condition of the room Temp. 25 °C. (This curve is for reference only)



Packaging Information

| Item | Tray | Box | Carton |
|--------------------|------------------|----------------|-----------------|
| Dimensions (mm) | 422 x 122 x 15.3 | 429 x 85 x 131 | 455 x 315 x 285 |
| Quantity (PCS) | 20 | 100 | 600 |
| Gross Weight (kg): | | | 20 ± 10% |



DC-ATCO

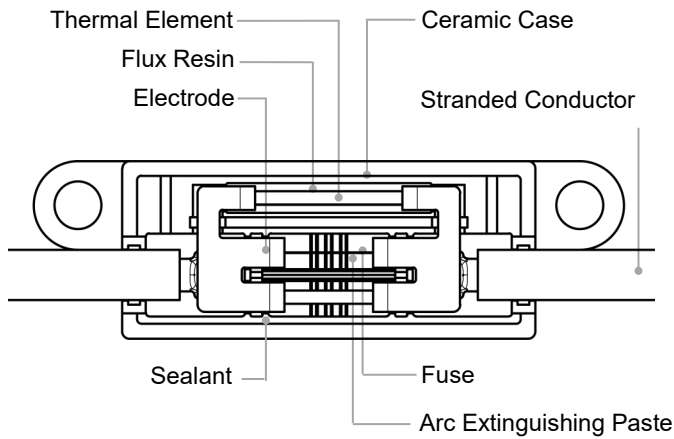
DC-ATCO



Features

- Operating Voltage
- High Accuracy of Functioning Temp.
- Ceramic Case
- Non-Resettable
- RoHS & REACH Compliant

Structure Diagram



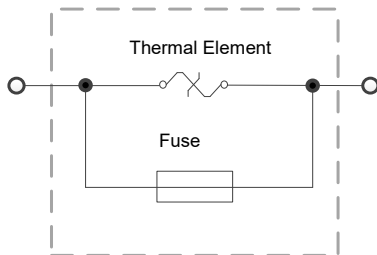
Applications

- Battery Cooling Systems
- Pre-charged Resistors
- Automotive Air-Conditioners
- Heaters

Customization

- Rated Functioning Temp.
- The Shape of Stranded Conductor

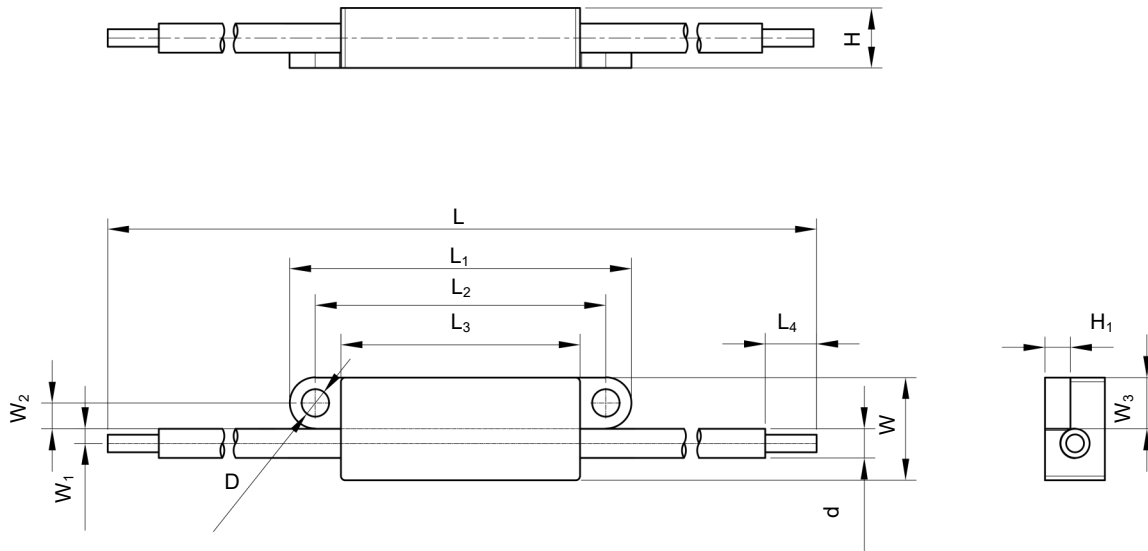
Product Schematic



Agency Approvals

| Agency Mark | Standards | File No. |
|-------------|----------------|----------|
| | UL60691 | On-going |
| | CAN-CSA-E60691 | On-going |

Dimensions (mm)



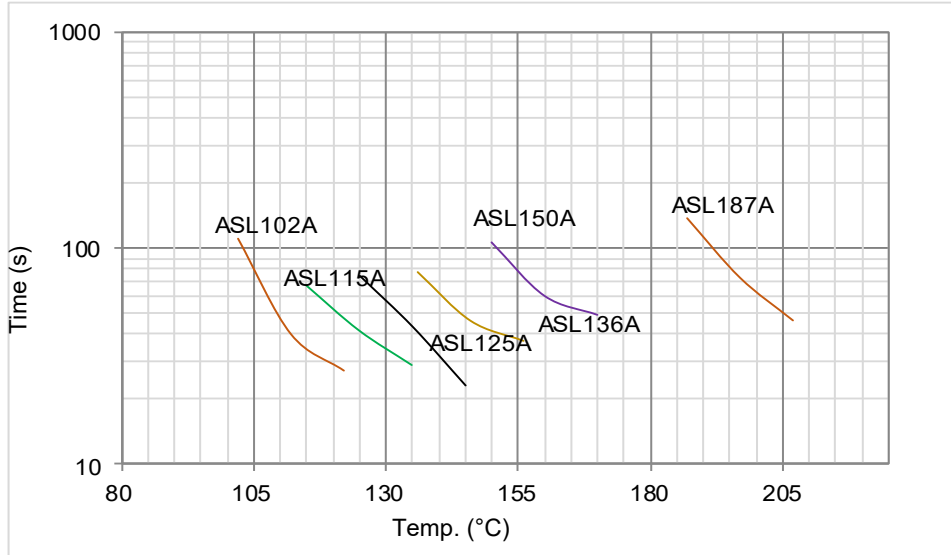
| L | L ₁ | L ₂ | L ₃ | L ₄ | W | W ₁ | W ₂ | W ₃ | H | H ₁ | D | d |
|-------------|----------------|----------------|----------------|----------------|------------|----------------|----------------|----------------|-----------|----------------|-----------|-------|
| 228.0 ± 5.0 | 40.0 ± 1.0 | 34.00 ± 1.0 | 28.0 ± 1.0 | 10.0 ± 1.0 | 12.0 ± 1.0 | 1.7 ± 0.2 | 3.0 ± 0.2 | 6.0 ± 0.5 | 7.0 ± 1.0 | 3.0 ± 0.5 | 3.2 ± 0.2 | AWG12 |

Specifications

| Model | T_f | Fusing Temp. with Load | T_h | T_m | I_{min} | I_r | U_r | UL [®] | cUL [®] | TUV | VDE | CCC | RoHS REACH |
|-------------|-------|------------------------|-------|-------|-----------|-------|--------|-----------------|------------------|-----|-----|-----|------------|
| | (°C) | (°C) | (°C) | (°C) | (A) | (A) | (V) | UL | cUL | TUV | VDE | CCC | |
| ASL102A-LSF | 102 | 82 ± 3 | 55 | 250 | 0.5 | 30 | DC 600 | ○ | ○ | ○ | ○ | ○ | ● |
| ASL115A-LSF | 115 | 95 ± 3 | 65 | 250 | 0.5 | 30 | DC 600 | ○ | ○ | ○ | ○ | ○ | ● |
| ASL125A-LSF | 125 | 105 ± 3 | 70 | 250 | 0.5 | 30 | DC 600 | ○ | ○ | ○ | ○ | ○ | ● |
| ASL136A-LSF | 135 | 116 ± 3 | 80 | 250 | 0.5 | 30 | DC 600 | ○ | ○ | ○ | ○ | ○ | ● |
| ASL150A-LSF | 150 | 130 ± 3 | 95 | 250 | 0.5 | 30 | DC 600 | ○ | ○ | ○ | ○ | ○ | ● |
| ASL187A-LSF | 187 | 167 ± 3 | 140 | 250 | 0.5 | 30 | DC 600 | ○ | ○ | ○ | ○ | ○ | ● |

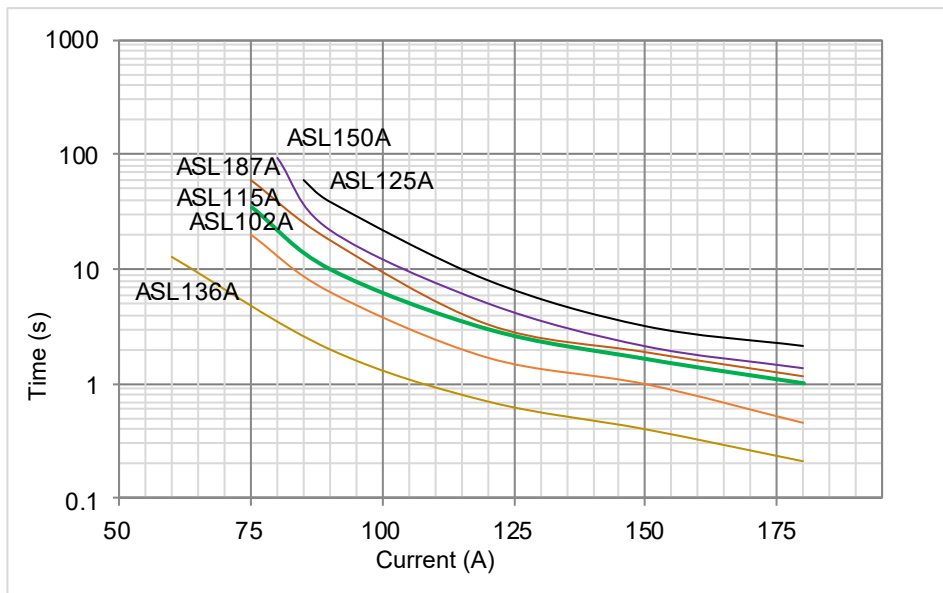
Temp.-Time Curve

The functioning temperature time curve of Alloy Thermal-Link in different Temp. oil bath. (This curve is for reference only)



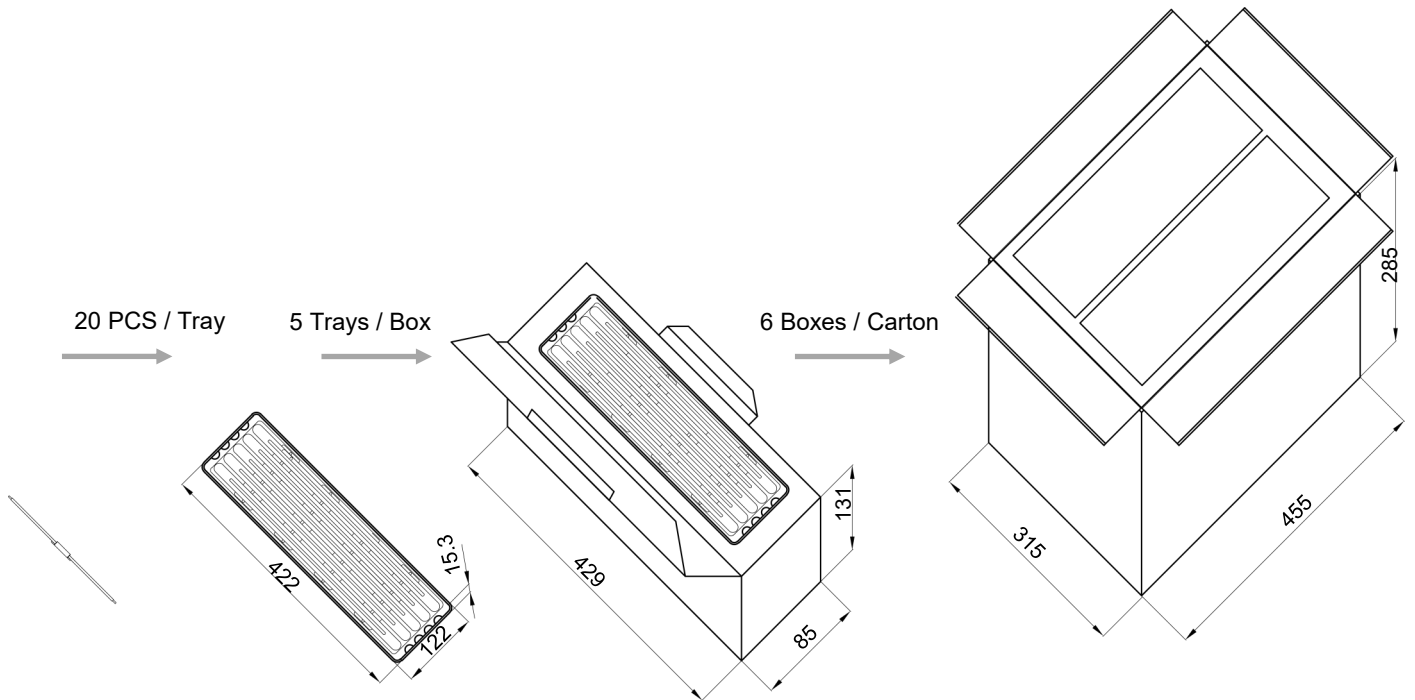
Current-Time Curve

This is an illustrated curve, describing the opening time at Multi-times rated current in the condition of the room Temp. 25 °C. (This curve is for reference only)



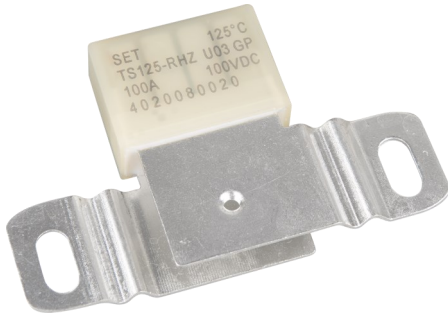
Packaging Information

| Item | Tray | Box | Carton |
|--------------------|------------------|----------------|-----------------|
| Dimensions (mm) | 422 x 122 x 15.3 | 429 x 85 x 131 | 455 x 315 x 285 |
| Quantity (PCS) | 20 | 100 | 600 |
| Gross Weight (kg): | | | 20 ± 10% |



DC-ATCO

DC-ATCO



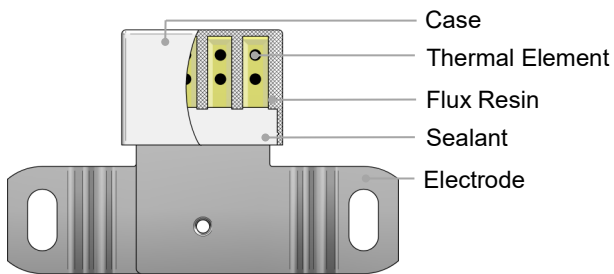
Features

- High Accuracy of Functioning Temp.
- Non-Resettable
- RoHS & REACH Compliant

Applications

- EV Battery Modules
- Automatic Electronics

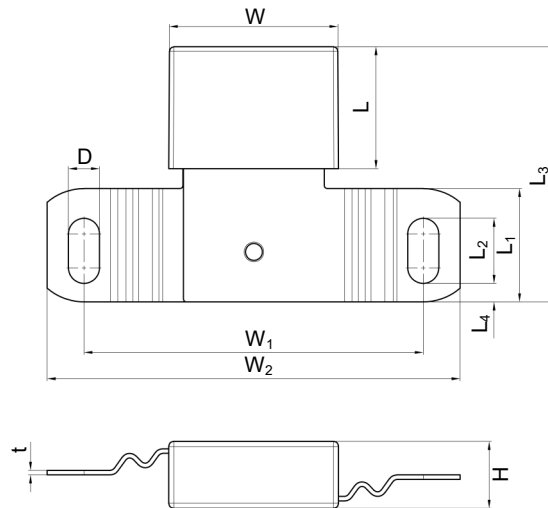
Structure Diagram



Customization



- Rated Functioning Temp.
- The Shape of Electrode

Dimensions (mm)



| L | L ₁ | L ₂ | L ₃ | L ₄ | W | W ₁ | W ₂ | D | H | t |
|----------|----------------|----------------|----------------|----------------|----------|----------------|----------------|---------|----------|-----------|
| 21.5±0.5 | 20.0±0.5 | 11.5±0.5 | 45.5±2.0 | 3.25±0.50 | 30.0±0.5 | 60.0±2.0 | 73.0±2.0 | 5.5±0.2 | 11.8±0.5 | 0.80±0.05 |

Specifications

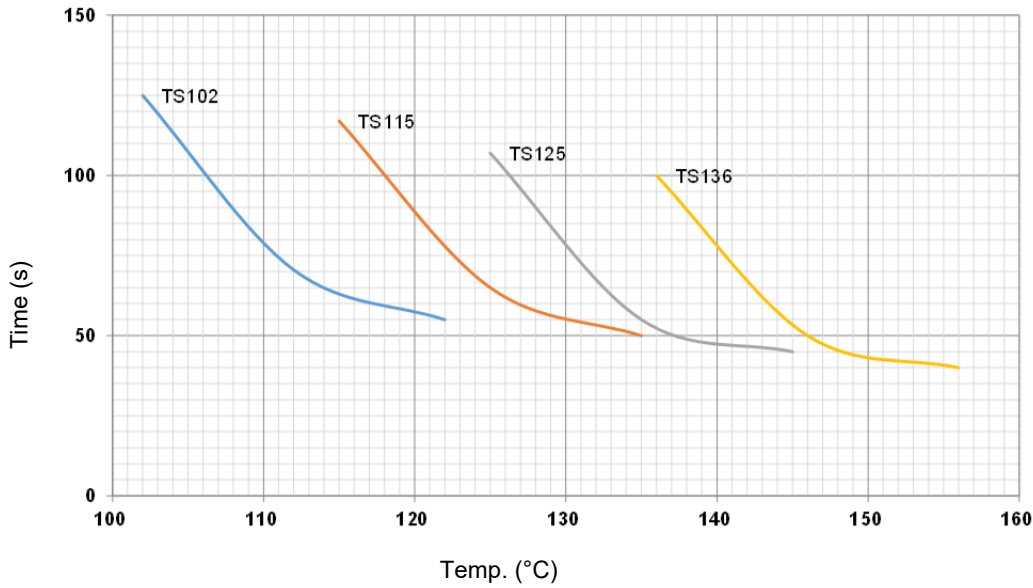
| Model | T_f | Fusing Temp. | T_h | T_m | I_r | U_r |  |  | RoHS |
|-----------|-------|--------------|-------|-------|-------|--------|---|---|-------|
| | (°C) | (°C) | (°C) | (°C) | (A) | (V) | UL | cUL | REACH |
| TS102-QMZ | 102 | 98 ± 3 | 57 | 180 | 80 | AC 250 | ○ | ○ | ● |
| TS102-RJZ | | | | | 100 | AC 125 | ○ | ○ | ● |
| TS102-RHZ | | | | | 100 | DC 100 | ○ | ○ | ● |
| TS115-QMZ | 115 | 111 ± 3 | 70 | 180 | 80 | AC 250 | ○ | ○ | ● |
| TS115-RJZ | | | | | 100 | AC 125 | ○ | ○ | ● |
| TS115-RHZ | | | | | 100 | DC 100 | ○ | ○ | ● |
| TS125-QMZ | 125 | 121 ± 3 | 80 | 180 | 80 | AC 250 | ● | ● | ● |
| TS125-RJZ | | | | | 100 | AC 125 | ● | ● | ● |
| TS125-RHZ | | | | | 100 | DC 100 | ● | ● | ● |
| TS136-QMZ | 136 | 132 ± 3 | 91 | 180 | 80 | AC 250 | ● | ● | ● |
| TS136-RJZ | | | | | 100 | AC 125 | ● | ● | ● |
| TS136-RHZ | | | | | 100 | DC 100 | ● | ● | ● |

DC-ATCO

DC-ATCO

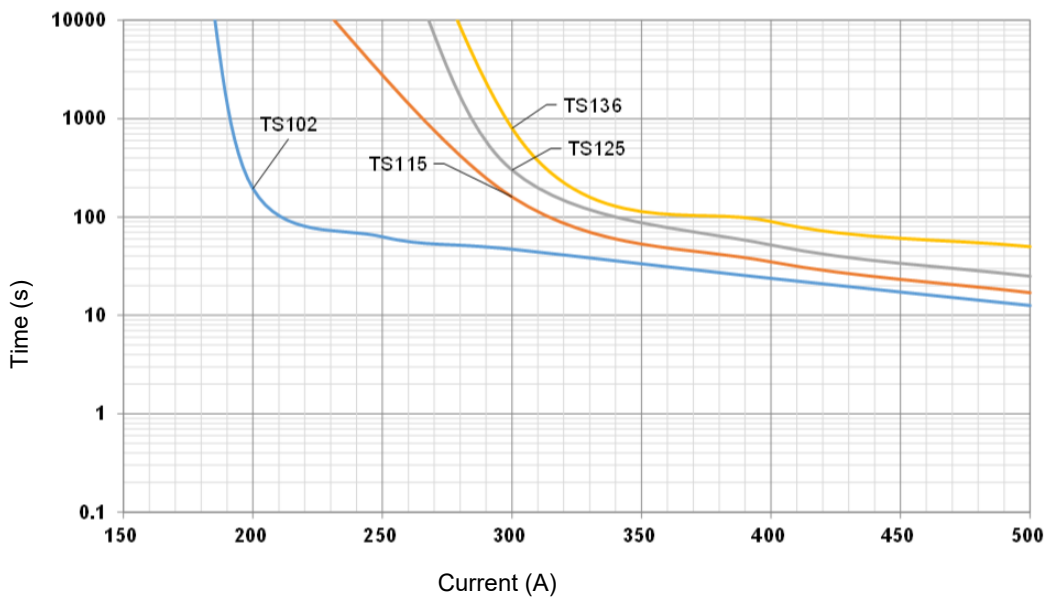
Temp.-Time Curve

The functioning temperature time curve of Alloy Thermal-Link in different Temp. oil bath. (This curve is for reference only)



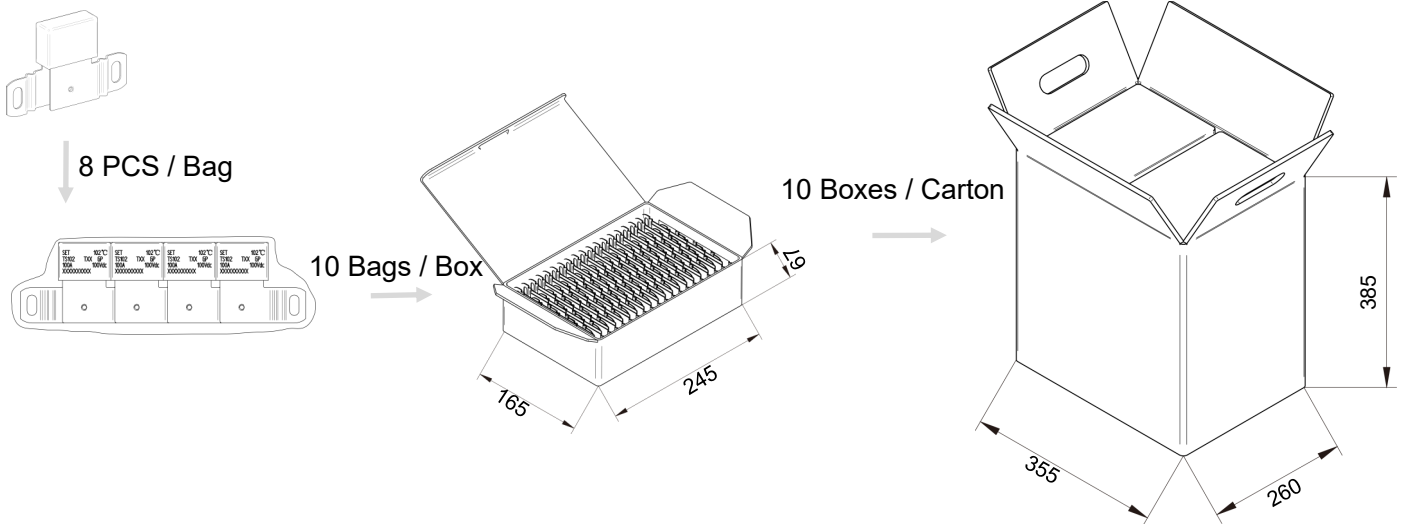
Current-Time Curve

This is an illustrated curve, describing the opening time at Multi-times rated current in the condition of the room Temp. 25 °C. (This curve is for reference only)



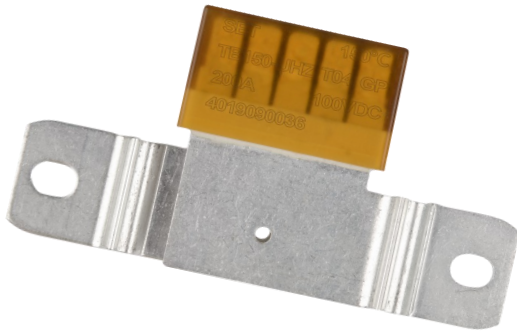
Packaging Information

| Item | PE Bag | Box | Carton |
|--------------------|-----------|----------------|-----------------|
| Dimensions (mm) | 85 × 0.06 | 165 × 245 × 67 | 355 × 260 × 385 |
| Quantity (PCS) | 8 | 80 | 800 |
| Gross Weight (kg): | | | 27.5 ± 10% |



DC-ATCO

DC-ATCO



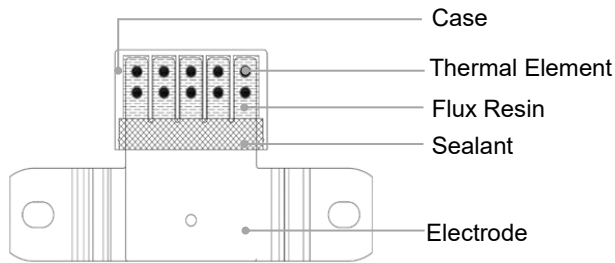
Features

- High Accuracy of Functioning Temp.
- Non-Resettable
- RoHS & REACH Compliant
- DC 200 A

Applications

- EV Battery Modules
- Power Supplies

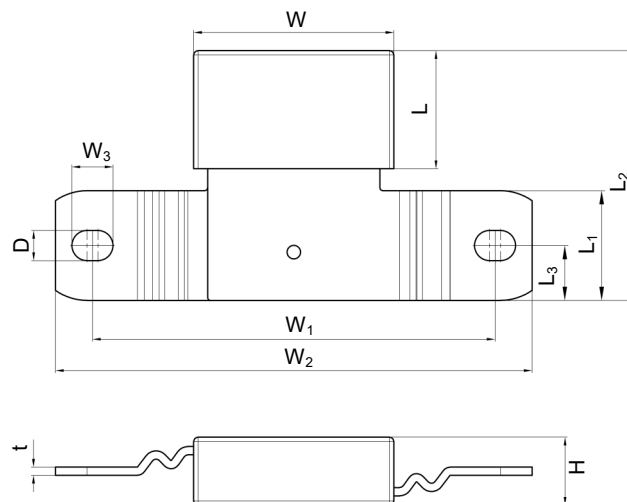
Structure Diagram



Customization

- Rated Functioning Temp.
- The Shape of Electrode

Dimensions (mm)



| L | L ₁ | L ₂ | L ₃ | W | W ₁ | W ₂ | W ₃ | D | H | t |
|------------|----------------|----------------|----------------|------------|----------------|----------------|----------------|-----------|------------|-------------|
| 21.5 ± 0.5 | 20.0 ± 0.2 | 45.5 ± 2.0 | 10.0 ± 0.2 | 36.5 ± 0.5 | 73.4 ± 2.0 | 86.9 ± 2.0 | 7.50 ± 0.15 | 5.5 ± 0.2 | 12.4 ± 0.5 | 1.50 ± 0.05 |

Specifications

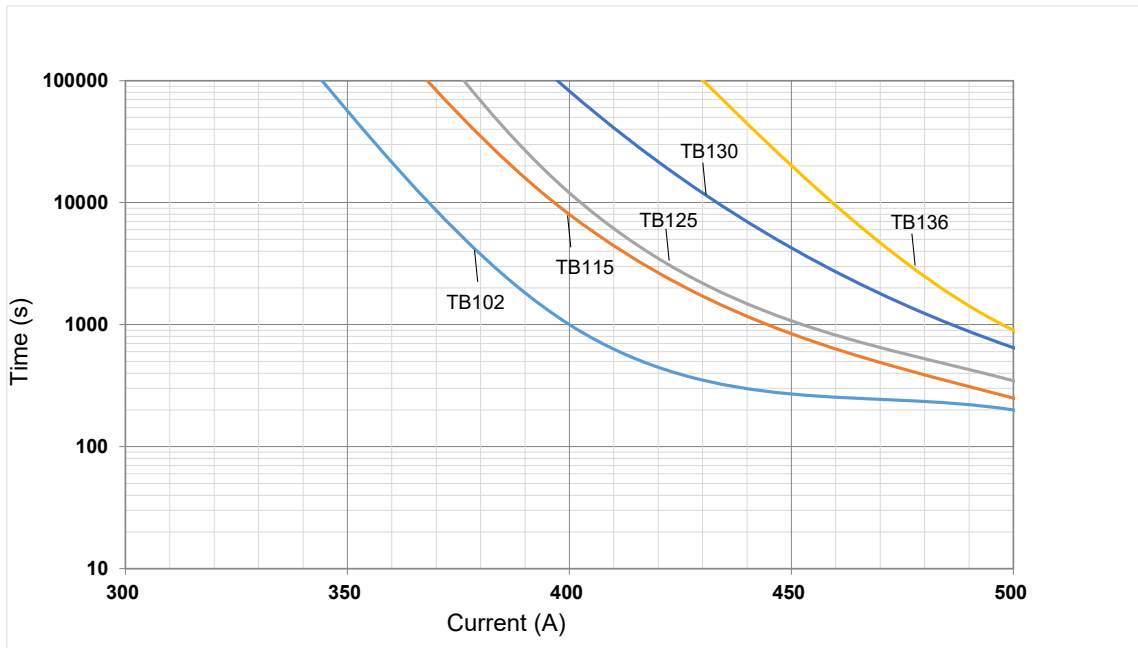
| Model | T_r | Fusing Temp. | T_h | T_m | I_r | U_r | RoHS |
|-----------|-------|--------------|-------|-------|-------|--------|-------|
| | (°C) | (°C) | (°C) | (°C) | (A) | (V) | REACH |
| TB102-UJZ | 102 | 98 ± 3 | 57 | 180 | 200 | AC 125 | ● |
| TB102-UHZ | | | | | 200 | DC 100 | ● |
| TB115-UJZ | 115 | 111 ± 3 | 70 | 180 | 200 | AC 125 | ● |
| TB115-UHZ | | | | | 200 | DC 100 | ● |
| TB125-UJZ | 125 | 121 ± 3 | 80 | 180 | 200 | AC 125 | ● |
| TB125-UHZ | | | | | 200 | DC 100 | ● |
| TB130-UJZ | 130 | 125 ± 3 | 85 | 180 | 200 | AC 125 | ● |
| TB130-UHZ | | | | | 200 | DC 100 | ● |
| TB136-UJZ | 136 | 131 ± 3 | 91 | 180 | 200 | AC 125 | ● |
| TB136-UHZ | | | | | 200 | DC 100 | ● |

DC-ATCO

DC-ATCO

Current-Time Curve

This is an illustrated curve, describing the opening time at Multi-times rated current in the condition of the room Temp. 25 °C. (This curve is for reference only)

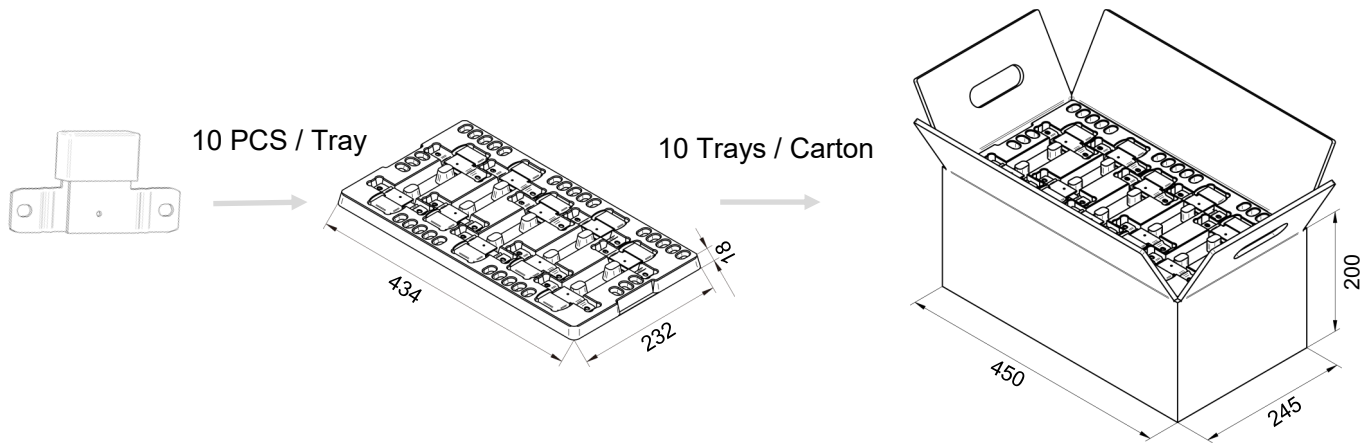


Packaging Information

| Item | Tray | Carton |
|--------------------|----------------|-----------------|
| Dimensions (mm) | 434 × 232 × 18 | 450 × 245 × 200 |
| Quantity (PCS) | 10 | 100 |
| Gross Weight (kg): | | 7.6 ± 10% |

DC-ATCO

DC-ATCO

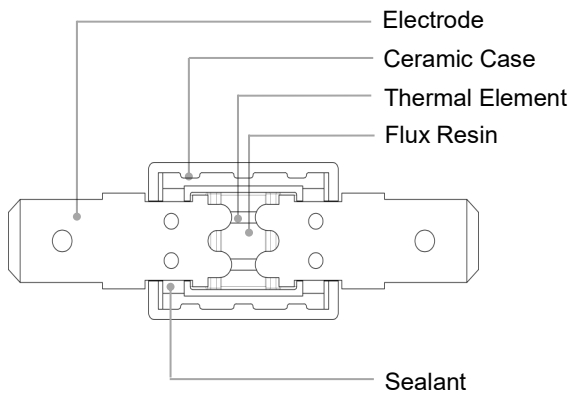




Features

- 0 to 450 VDC / 0 to 600 VAC Operating Voltage
- High Accuracy of Functioning Temp.
- Ceramic Case
- Non-Resettable
- RoHS & REACH Compliant

Structure Diagram



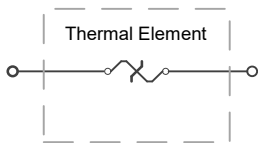
Applications

- Battery Cooling Systems
- Pre-charged Resistors
- Automotive Air-Conditioners
- Heaters

Customization

- Rated Functioning Temp.
- Shape of Electrode

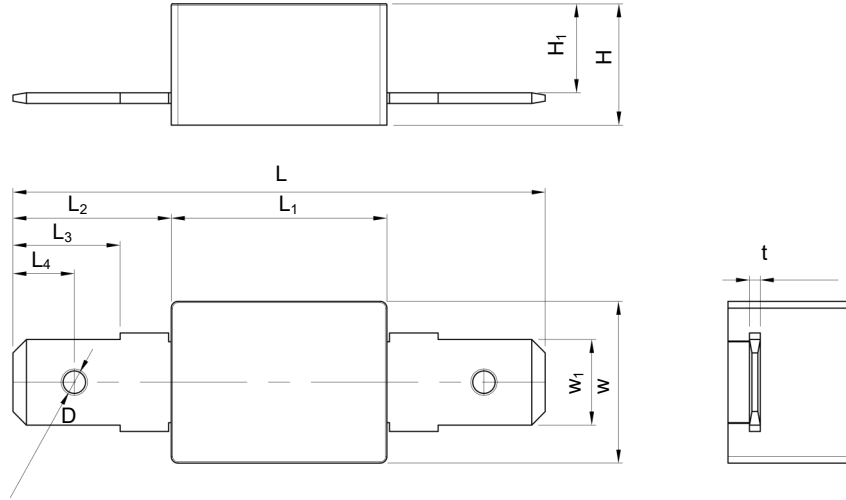
Product Schematic



Agency Approvals

| Agency Mark | Standards | File No. |
|-------------|----------------|----------|
| | UL60691 | E214712 |
| | CAN-CSA-E60691 | E214712 |

Dimensions (mm)



| L | L ₁ | L ₂ | L ₃ | L ₄ | W | W ₁ | H | H ₁ | t | D |
|------------|----------------|----------------|----------------|----------------|------------|----------------|-------------------------------------|-------------------------------------|-------------|-------------|
| 39.5 ± 2.0 | 16.0 ± 1.0 | 11.75 ± 0.30 | 7.95 ± 0.30 | 4.55 ± 0.2 | 12.0 ± 1.0 | 6.35 ± 0.20 | 9.0 ^{-0.0} _{+0.5} | 6.0 ^{-0.0} _{+1.0} | 0.80 ± 0.05 | 1.65 ± 0.20 |

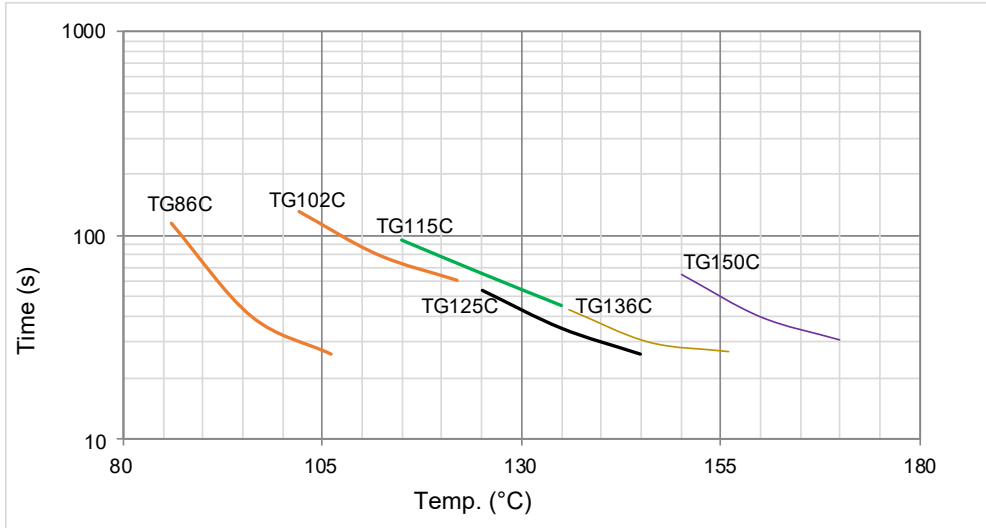
Specifications

For Automotive Application: Battery Cooling System, Pre-charged Resistor, Automotive Air Conditioning

| Model | T_f | Fusing Temp. | T_h | T_m | I_{min} | I_r | U_r | UL [®] | cUL [®] | TUV | VDE | CCC | RoHS REACH | |
|---------|-------|--------------|-------|-------|-----------|-------|--------|-----------------|------------------|-----|-----|-----|------------|---|
| | (°C) | (°C) | (°C) | (°C) | (A) | (A) | (V) | UL | cUL | TUV | VDE | CCC | | |
| TG86C | 86 | 81 ± 5 | 43 | 250 | 0 | 15 | DC 450 | ● | ● | ○ | ○ | ○ | ● | |
| TG86C | | | | | 0 | 15 | AC 600 | ● | ● | ○ | ○ | ○ | ○ | ● |
| TG102C | 102 | 97 ± 5 | 65 | 250 | 0 | 15 | DC 450 | ● | ● | ○ | ○ | ○ | ● | |
| TG102C | | | | | 0 | 20 | DC 400 | ● | ● | ○ | ○ | ○ | ○ | ● |
| TG102C | | | | | 0 | 20 | AC 600 | ● | ● | ○ | ○ | ○ | ○ | ● |
| TG115C | 115 | 110 ± 5 | 72 | 250 | 0 | 15 | DC 450 | ● | ● | ○ | ○ | ○ | ● | |
| TG115C | | | | | 0 | 20 | DC 400 | ● | ● | ○ | ○ | ○ | ○ | ● |
| TG115C | | | | | 0 | 20 | AC 600 | ● | ● | ○ | ○ | ○ | ○ | ● |
| TG125C | 125 | 120 ± 5 | 85 | 250 | 0 | 15 | DC 450 | ● | ● | ○ | ○ | ○ | ● | |
| TG125C | | | | | 0 | 20 | DC 400 | ● | ● | ○ | ○ | ○ | ○ | ● |
| TG125C | | | | | 0 | 20 | AC 600 | ● | ● | ○ | ○ | ○ | ○ | ● |
| TG136C- | 136 | 131 ± 5 | 90 | 250 | 0 | 15 | DC 450 | ● | ● | ○ | ○ | ○ | ● | |
| TG136C | | | | | 0 | 20 | DC 400 | ● | ● | ○ | ○ | ○ | ○ | ● |
| TG136C | | | | | 0 | 20 | AC 600 | ● | ● | ○ | ○ | ○ | ○ | ● |
| TG150C | 150 | 145 ± 5 | 100 | 250 | 0 | 15 | DC 450 | ● | ● | ○ | ○ | ○ | ● | |
| TG150C | | | | | 0 | 20 | DC 400 | ● | ● | ○ | ○ | ○ | ○ | ● |
| TG150C | | | | | 0 | 20 | AC 600 | ● | ● | ○ | ○ | ○ | ○ | ● |

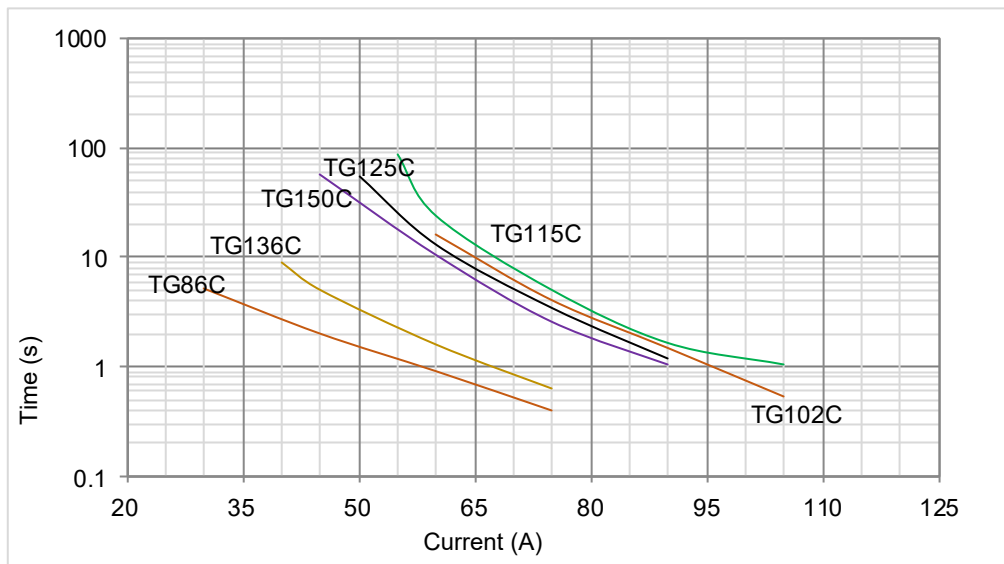
Temp.-Time Curve

The functioning temperature time curve of Alloy Thermal-Link in different Temp. oil bath. (This curve is for reference only)



Current-Time Curve

This is an illustrated curve, describing the opening time at Multi-times rated current in the condition of the room Temp. 25 °C. (This curve is for reference only)

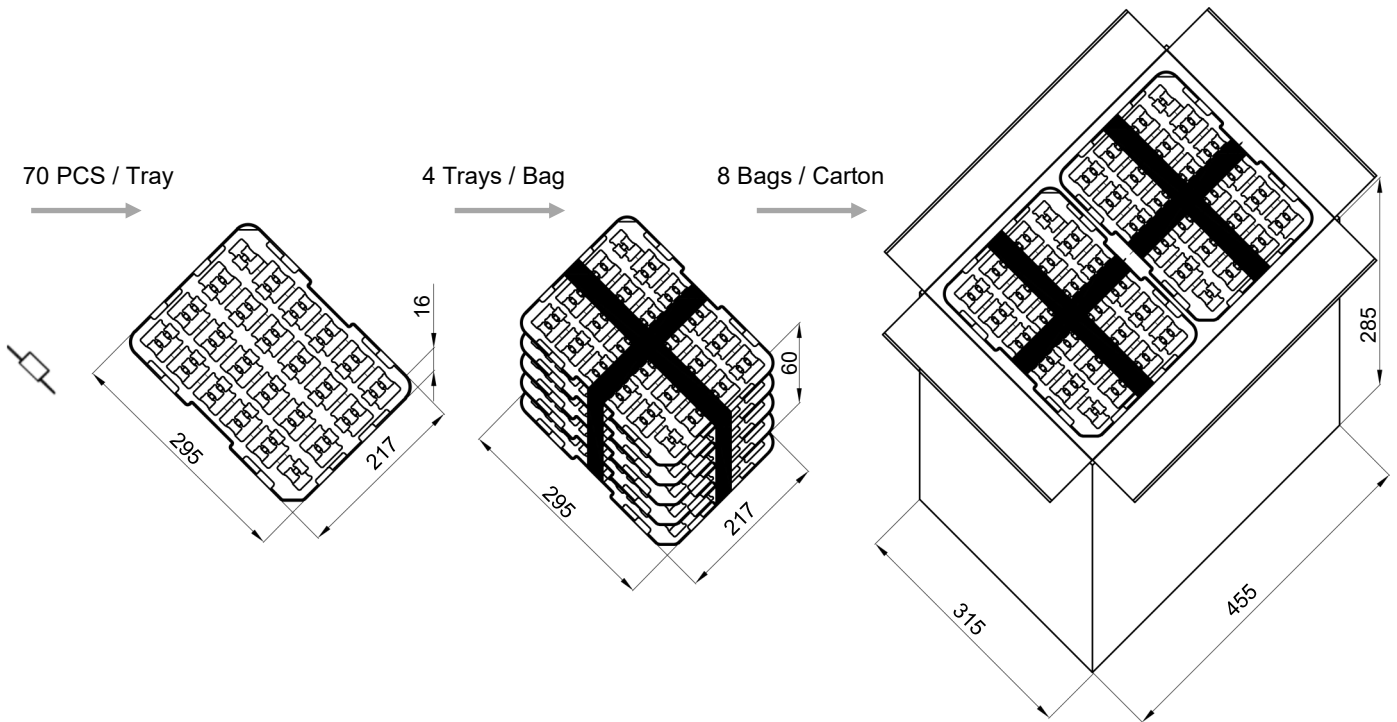


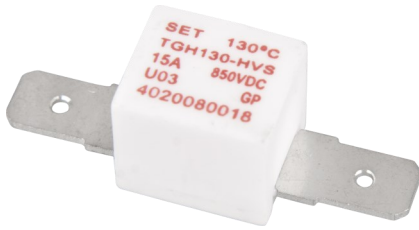
Packaging Information

| Item | Tray | PE Bag | Carton |
|--------------------|----------------|----------------|-----------------|
| Dimensions (mm) | 295 x 217 x 16 | 295 x 217 x 60 | 455 x 315 x 285 |
| Quantity (PCS) | 70 | 280 | 2240 |
| Gross Weight (kg): | | | 20 ± 10% |

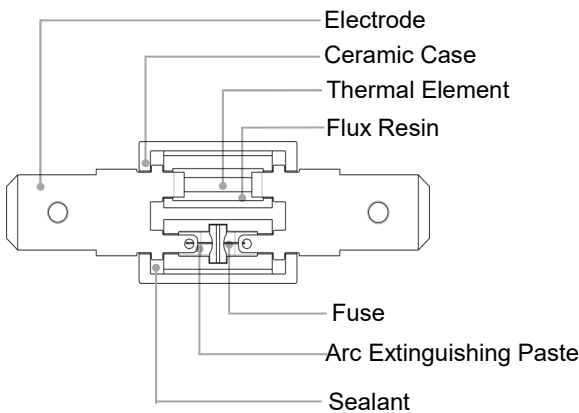
DC-ATCO

DC-ATCO





Structure Diagram



Features

- Operating Voltage
- High Accuracy of Functioning Temp.
- Ceramic Case
- Non-Resettable
- RoHS & REACH Compliant

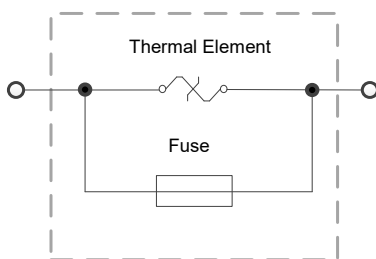
Applications

- Battery Cooling Systems
- Pre-charged Resistors
- Automotive Air-Conditioners
- Heaters

Customization

- Rated Functioning Temp.
- The Shape of Electrode

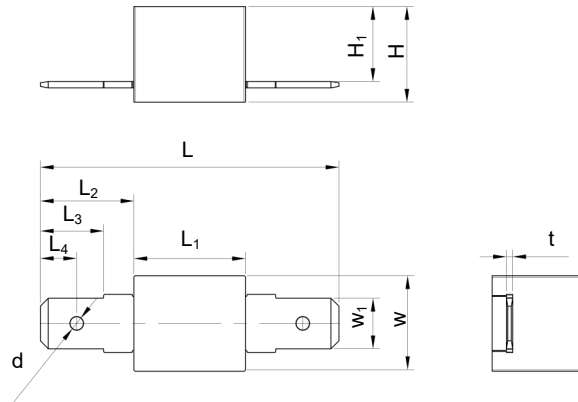
Product Schematic



Agency Approvals

| Agency Mark | Standards | File No. |
|-------------|----------------|----------|
| | UL60691 | On-going |
| | CAN-CSA-E60691 | On-going |






Dimensions (mm)



| L | L ₁ | L ₂ | L ₃ | L ₄ | W | W ₁ | H | H ₁ | t | D |
|------------|----------------|----------------|----------------|----------------|------------|----------------|--------------------------------------|-------------------------------------|-------------|-------------|
| 37.5 ± 2.0 | 14.0 ± 1.0 | 11.75 ± 0.30 | 7.95 ± 0.30 | 4.55 ± 0.2 | 12.0 ± 1.0 | 6.35 ± 0.20 | 12.0 ^{+0.8} _{-0.5} | 9.4 ^{+1.0} _{-0.0} | 0.80 ± 0.05 | 1.65 ± 0.20 |

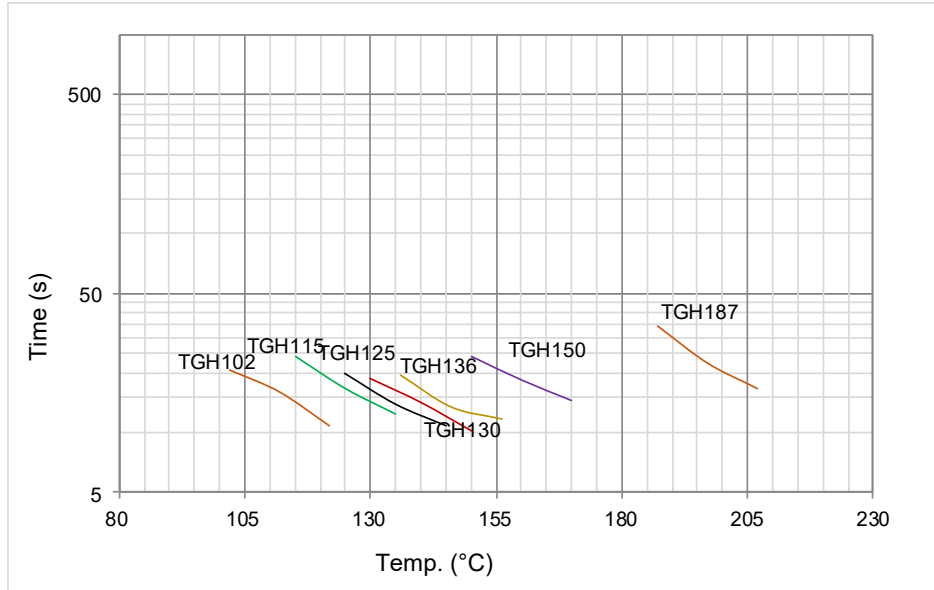
Specifications

For Automotive Application: Battery Cooling System, Pre-charged Resistor, Automotive Air Conditioning

| Model | T_f | Fusing Temp. with Load | T_h | T_m | I_{min} | I_r | U_r |  |  |  |  |  | RoHS REACH |
|------------|-------|------------------------|-------|-------|-----------|-------|--------|---|---|---|---|---|------------|
| | (°C) | (°C) | (°C) | (°C) | (A) | (A) | (V) | UL | cUL | TUV | VDE | CCC | |
| TGH102-HVS | 102 | 92 ± 3 | 63 | 250 | 3 | 15 | DC 850 | ○ | ○ | ○ | ○ | ○ | ● |
| TGH115-HVS | 115 | 107 ± 3 | 65 | 250 | 3 | 15 | DC 850 | ○ | ○ | ○ | ○ | ○ | ● |
| TGH125-HVS | 125 | 107 ± 3 | 75 | 250 | 3 | 15 | DC 850 | ○ | ○ | ○ | ○ | ○ | ● |
| TGH130-HVS | 130 | 108 ± 3 | 80 | 250 | 3 | 15 | DC 850 | ○ | ○ | ○ | ○ | ○ | ● |
| TGH136-HVS | 136 | 109 ± 3 | 80 | 250 | 3 | 15 | DC 850 | ○ | ○ | ○ | ○ | ○ | ● |
| TGH150-HVS | 150 | 135 ± 3 | 105 | 250 | 3 | 15 | DC 850 | ○ | ○ | ○ | ○ | ○ | ● |
| TGH187-HVS | 187 | 180 ± 3 | 155 | 250 | 3 | 15 | DC 850 | ○ | ○ | ○ | ○ | ○ | ● |

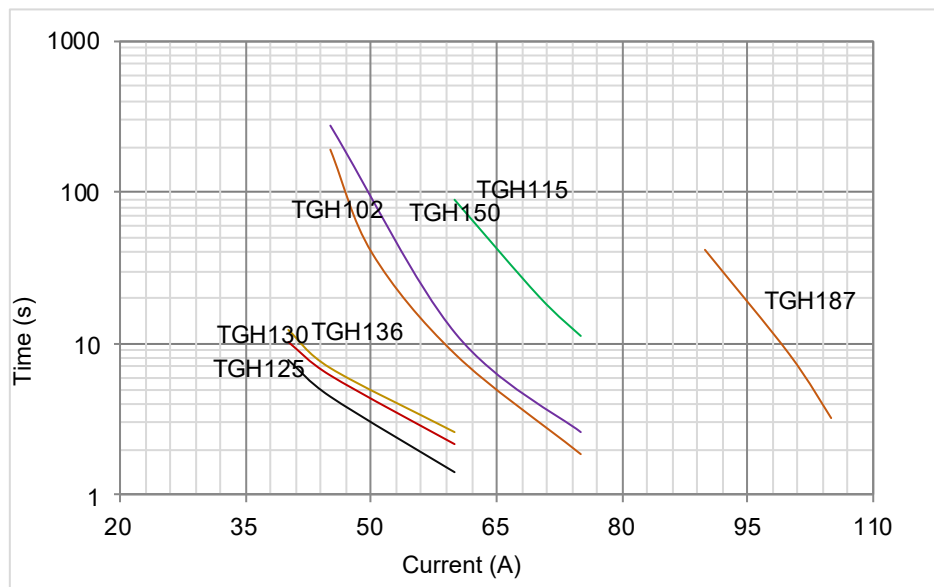
Temp.-Time Curve

The functioning temperature time curve of Alloy Thermal-Link in different Temp. oil bath. (This curve is for reference only)



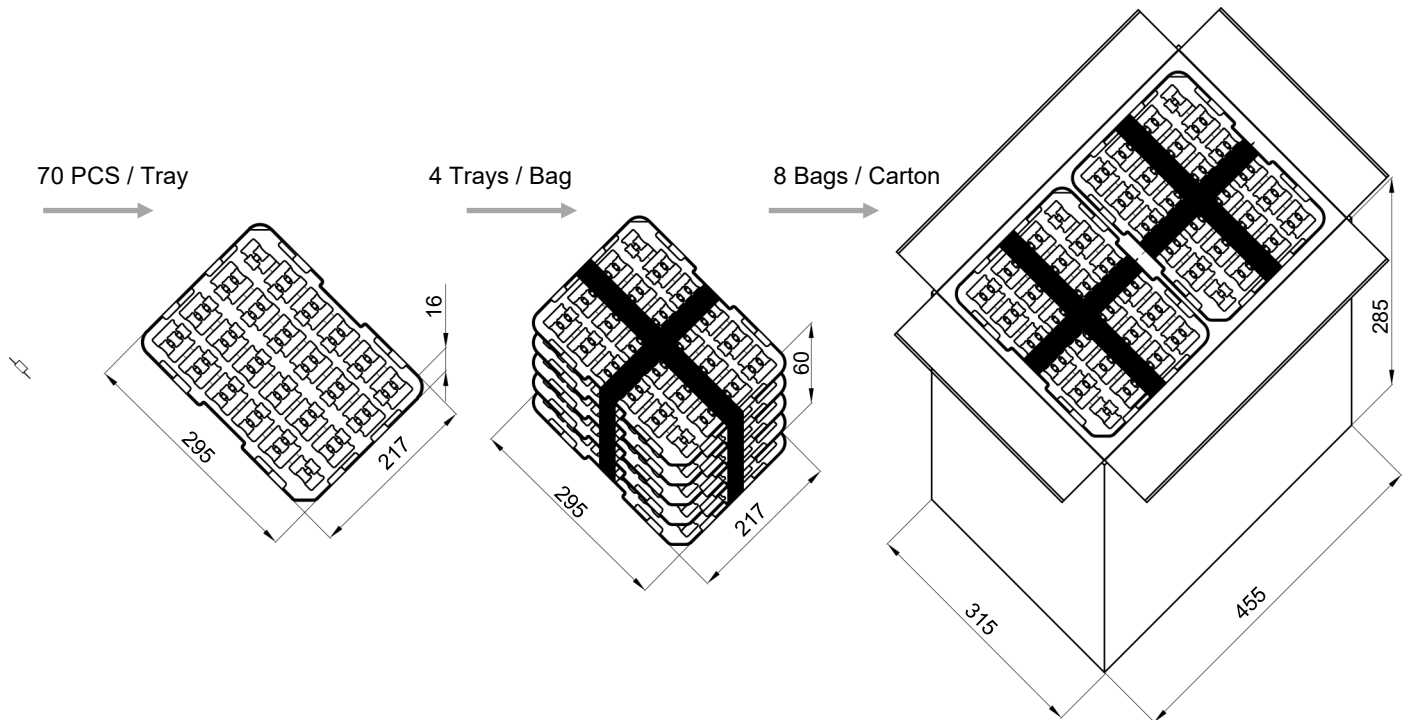
Current-Time Curve

This is an illustrated curve, describing the opening time at Multi-times rated current in the condition of the room Temp. 25 °C. (This curve is for reference only)



Packaging Information

| Item | Tray | PE Bag | Carton |
|--------------------|----------------|----------------|-----------------|
| Dimensions (mm) | 295 x 217 x 16 | 295 x 217 x 60 | 455 x 315 x 285 |
| Quantity (PCS) | 70 | 280 | 2240 |
| Gross Weight (kg): | | | 20 ± 10% |



DC-ATCO

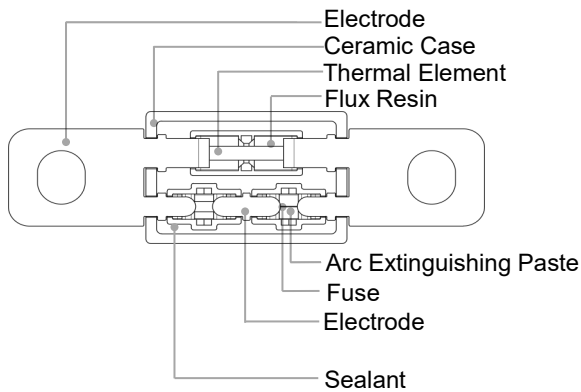
DC-ATCO



DC-ATCO

DC-ATCO

Structure Diagram



Features

- Operating Voltage
- High Accuracy of Functioning Temp.
- Ceramic Case
- Non-Resettable
- RoHS & REACH Compliant

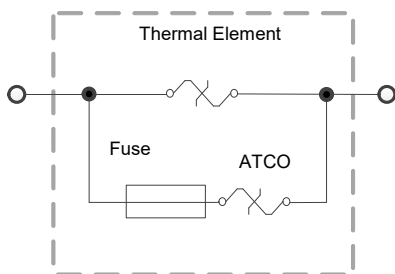
Applications

- Battery Cooling Systems
- Pre-charged Resistors
- Automotive Air-Conditioners
- Heaters



Customization

- Rated Functioning Temp.
- The Shape of Electrode

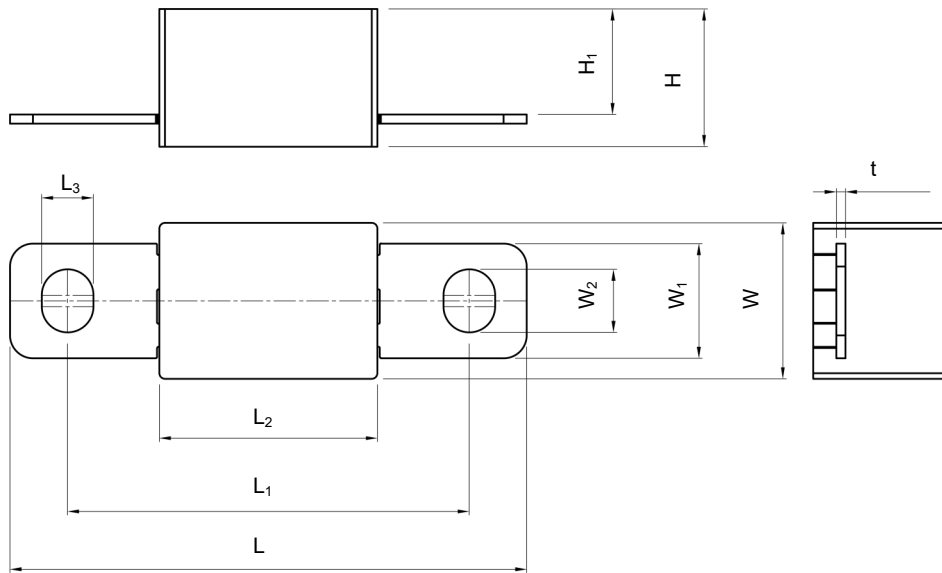
Product Schematic



Agency Approvals

| Agency Mark | Standards | File No. |
|---|----------------|----------|
|  | UL60691 | On-going |
|  | CAN-CSA-E60691 | On-going |

Dimensions (mm)



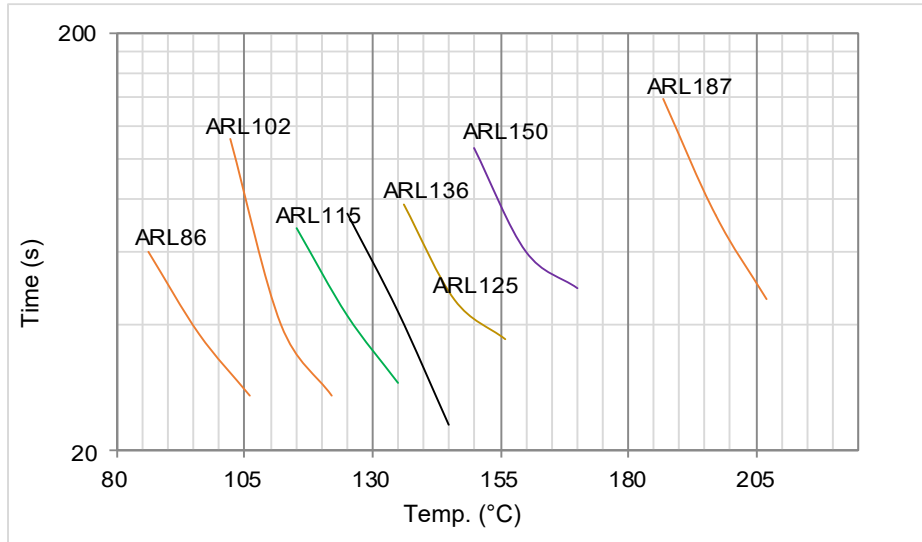
| L | L ₁ | L ₂ | L ₃ | W | W ₁ | W ₂ | H | H ₁ | t |
|------------|----------------|----------------|----------------|------------|----------------|----------------|------------|----------------|-------------|
| 45.0 ± 1.0 | 35.0 ± 1.0 | 19.0 ± 1.0 | 4.5 ± 0.2 | 13.6 ± 1.0 | 10.00 ± 0.05 | 5.5 ± 0.2 | 12.0 ± 0.8 | 9.2 ± 0.8 | 0.80 ± 0.05 |

Specifications

| Model | T_f | Fusing Temp. with Load | T_h | T_m | I_{min} | I_r | U_r | UL [®] | cUL [®] | TUV [®] | VDE [®] | CCC [®] | RoHS REACH |
|------------|-------|------------------------|-------|-------|-----------|-------|--------|-----------------|------------------|------------------|------------------|------------------|------------|
| | (°C) | (°C) | (°C) | (°C) | (A) | (A) | (V) | UL | cUL | TUV | VDE | CCC | |
| ARL86-LRA | 86 | 83 ± 2 | 45 | 250 | 0 | 30 | DC 500 | ○ | ○ | ○ | ○ | ○ | ● |
| ARL102-LRA | 102 | 99 ± 2 | 75 | 250 | 0 | 30 | DC 500 | ○ | ○ | ○ | ○ | ○ | ● |
| ARL115-LRA | 115 | 111 ± 2 | 75 | 250 | 0 | 30 | DC 500 | ○ | ○ | ○ | ○ | ○ | ● |
| ARL125-LRA | 125 | 121 ± 2 | 85 | 250 | 0 | 30 | DC 500 | ○ | ○ | ○ | ○ | ○ | ● |
| ARL136-LRA | 135 | 131 ± 2 | 80 | 250 | 0 | 30 | DC 500 | ○ | ○ | ○ | ○ | ○ | ● |
| ARL150-LRA | 150 | 146 ± 2 | 120 | 250 | 0 | 30 | DC 500 | ○ | ○ | ○ | ○ | ○ | ● |
| ARL187-LRA | 187 | 184 ± 2 | 125 | 250 | 0 | 30 | DC 500 | ○ | ○ | ○ | ○ | ○ | ● |

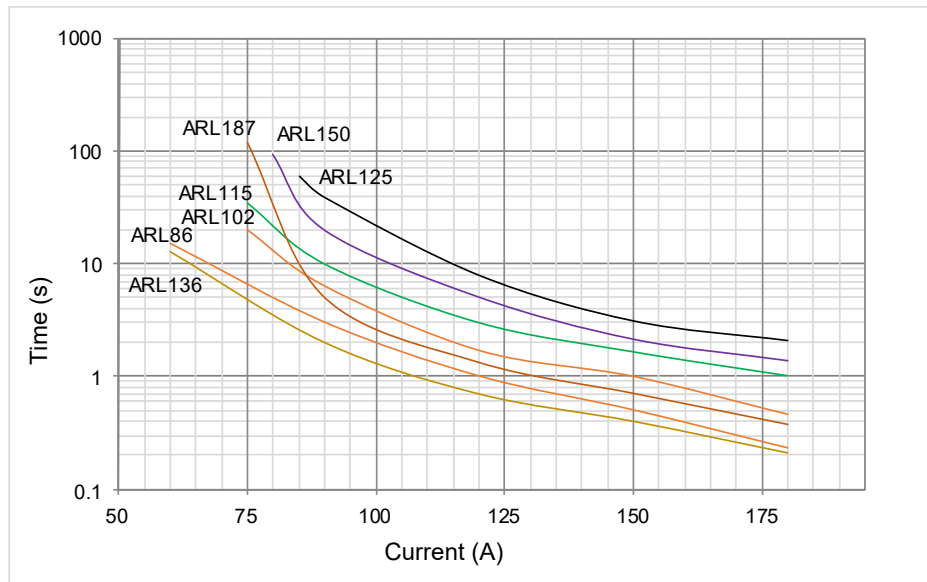
Temp.-Time Curve

The functioning temperature time curve of Alloy Thermal-Link in different Temp. oil bath. (This curve is for reference only)



Current-Time Curve

This is an illustrated curve, describing the opening time at Multi-times rated current in the condition of the room Temp. 25 °C. (This curve is for reference only)

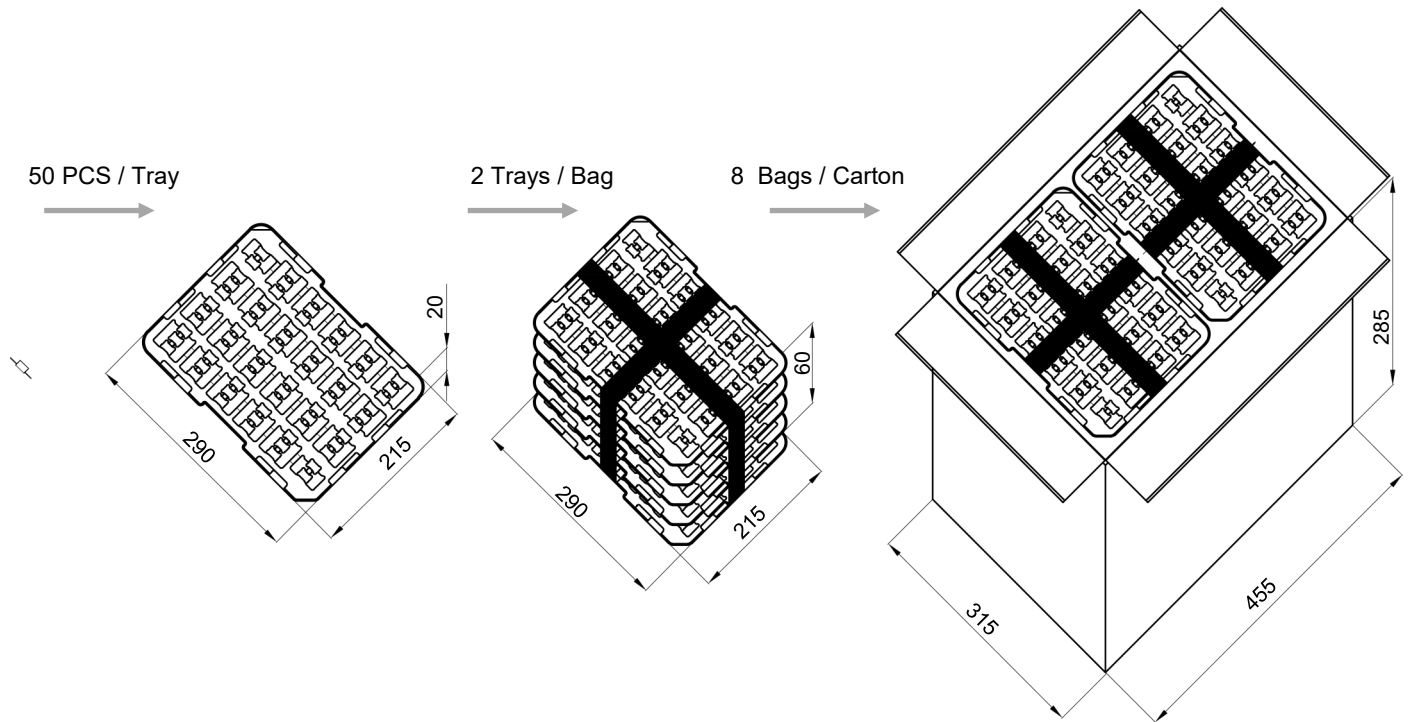


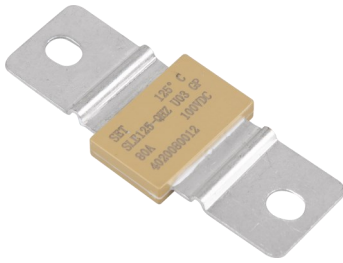
Packaging Information

| Item | Tray | PE Bag | Carton |
|--------------------|----------------|----------------|-----------------|
| Dimensions (mm) | 290 x 215 x 20 | 290 x 215 x 60 | 455 x 315 x 285 |
| Quantity (PCS) | 50 | 100 | 800 |
| Gross Weight (kg): | | | 20 ± 10% |

DC-ATCO

DC-ATCO

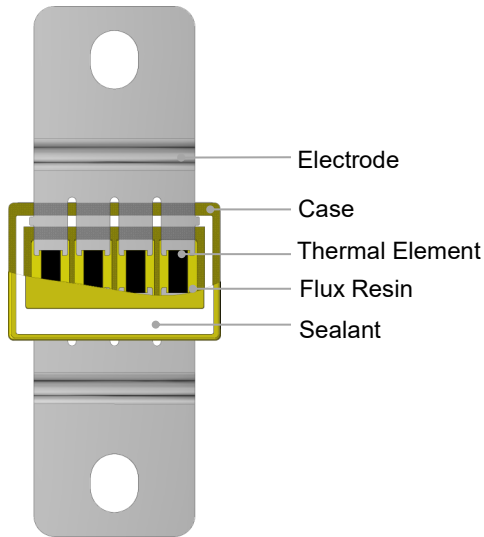




DC-ATCO

DC-ATCO

Structure Diagram



Features

- High Accuracy of Functioning Temp.
- Non-Resettable
- RoHS & REACH Compliant
- DC 25 A / 30 A / 40 A / 50 A / 60 A / 80 A

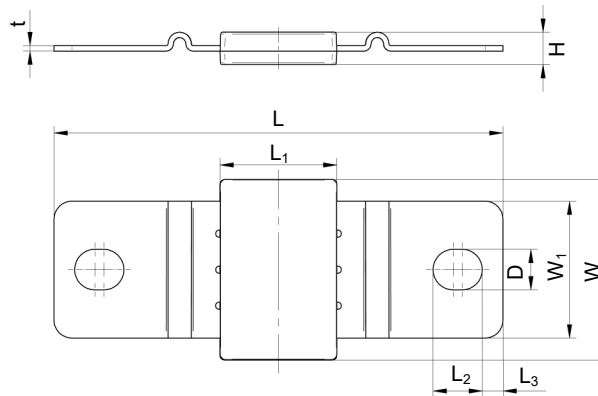
Applications

- EV Battery Modules
- Heaters
- Power Supplies

Customization

- Rated Functioning Temp.
- The Shape of Electrode

Dimensions (mm)



| L | L ₁ | L ₂ | L ₃ | W | W ₁ | D | H | t |
|------------|----------------|----------------|----------------|------------|----------------|-----------|-----------|-------------|
| 50.0 ± 1.0 | 13.0 ± 0.5 | 5.5 ± 0.5 | 2.3 ± 0.2 | 20.0 ± 0.5 | 15.2 ± 0.2 | 4.5 ± 0.2 | 3.6 ± 0.5 | 0.60 ± 0.05 |

Specifications

I_r : 25 A

| Model | T_f | Fusing Temp. | T_h | T_m | I_r | U_r | RoHS |
|------------|-------|--------------|-------|-------|-------|--------|-------|
| | (°C) | (°C) | (°C) | (°C) | (A) | (V) | REACH |
| SLA102-KHZ | 102 | 98 ± 3 | 57 | 180 | 25 | DC 100 | ● |
| SLA102-KJZ | | | | | 25 | AC 125 | ● |
| SLA115-KHZ | 115 | 111 ± 3 | 70 | 180 | 25 | DC 100 | ● |
| SLA115-KJZ | | | | | 25 | AC 125 | ● |
| SLA125-KHZ | 125 | 121 ± 3 | 80 | 180 | 25 | DC 100 | ● |
| SLA125-KJZ | | | | | 25 | AC 125 | ● |
| SLA136-KHZ | 136 | 132 ± 3 | 91 | 180 | 25 | DC 100 | ● |
| SLA136-KJZ | | | | | 25 | AC 125 | ● |

I_r : 30 A

| Model | T_f | Fusing Temp. | T_h | T_m | I_r | U_r | RoHS |
|------------|-------|--------------|-------|-------|-------|--------|-------|
| | (°C) | (°C) | (°C) | (°C) | (A) | (V) | REACH |
| SLB102-LHZ | 102 | 98 ± 3 | 57 | 180 | 30 | DC 100 | ● |
| SLB102-LJZ | | | | | 30 | AC 125 | ● |
| SLB115-LHZ | 115 | 111 ± 3 | 70 | 180 | 30 | DC 100 | ● |
| SLB115-LJZ | | | | | 30 | AC 125 | ● |
| SLB125-LHZ | 125 | 121 ± 3 | 80 | 180 | 30 | DC 100 | ● |
| SLB125-LJZ | | | | | 30 | AC 125 | ● |
| SLB136-LHZ | 136 | 132 ± 3 | 91 | 180 | 30 | DC 100 | ● |
| SLB136-LJZ | | | | | 30 | AC 125 | ● |

Specifications

I_r : 40 A

| Model | T_f | Fusing Temp. | T_h | T_m | I_r | U_r | RoHS |
|------------|-------|--------------|-------|-------|-------|--------|-------|
| | (°C) | (°C) | (°C) | (°C) | (A) | (V) | REACH |
| SLC102-MHZ | 102 | 98 ± 3 | 57 | 180 | 40 | DC 100 | ● |
| SLC102-MJZ | | | | | 40 | AC 125 | ● |
| SLC115-MHZ | 115 | 111 ± 3 | 70 | 180 | 40 | DC 100 | ● |
| SLC115-MJZ | | | | | 40 | AC 125 | ● |
| SLC125-MHZ | 125 | 121 ± 3 | 80 | 180 | 40 | DC 100 | ● |
| SLC125-MJZ | | | | | 40 | AC 125 | ● |
| SLC136-MHZ | 136 | 132 ± 3 | 91 | 180 | 40 | DC 100 | ● |
| SLC136-MJZ | | | | | 40 | AC 125 | ● |

I_r : 50 A

| Model | T_f | Fusing Temp. | T_h | T_m | I_r | U_r | RoHS |
|-----------|-------|--------------|-------|-------|-------|--------|-------|
| | (°C) | (°C) | (°C) | (°C) | (A) | (V) | REACH |
| SL102-NHZ | 102 | 98 ± 3 | 57 | 180 | 50 | DC 100 | ● |
| SL102-NJZ | | | | | 50 | AC 125 | ● |
| SL115-NHZ | 115 | 111 ± 3 | 70 | 180 | 50 | DC 100 | ● |
| SL115-NJZ | | | | | 50 | AC 125 | ● |
| SL125-NHZ | 125 | 121 ± 3 | 80 | 180 | 50 | DC 100 | ● |
| SL125-NJZ | | | | | 50 | AC 125 | ● |
| SL136-NHZ | 136 | 132 ± 3 | 91 | 180 | 50 | DC 100 | ● |
| SL136-NJZ | | | | | 50 | AC 125 | ● |

Specifications

I_r : 60 A

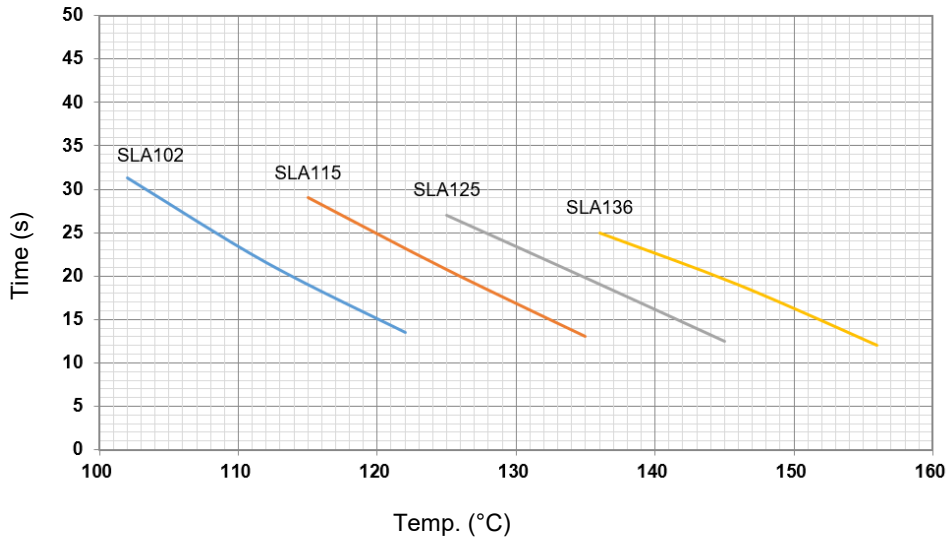
| Model | T_f | Fusing Temp. | T_h | T_m | I_r | U_r | RoHS |
|------------|-------|--------------|-------|-------|-------|--------|-------|
| | (°C) | (°C) | (°C) | (°C) | (A) | (V) | REACH |
| SLD102-PHZ | 102 | 98 ± 3 | 57 | 180 | 60 | DC 100 | ● |
| SLD102-PJZ | | | | | 60 | AC 125 | ● |
| SLD115-PHZ | 115 | 111 ± 3 | 70 | 180 | 60 | DC 100 | ● |
| SLD115-PJZ | | | | | 60 | AC 125 | ● |
| SLD125-PHZ | 125 | 121 ± 3 | 80 | 180 | 60 | DC 100 | ● |
| SLD125-PJZ | | | | | 60 | AC 125 | ● |
| SLD136-PHZ | 136 | 132 ± 3 | 91 | 180 | 60 | DC 100 | ● |
| SLD136-PJZ | | | | | 60 | AC 125 | ● |

I_r : 80 A

| Model | T_f | Fusing Temp. | T_h | T_m | I_r | U_r | RoHS |
|------------|-------|--------------|-------|-------|-------|--------|-------|
| | (°C) | (°C) | (°C) | (°C) | (A) | (V) | REACH |
| SLE102-QHZ | 102 | 98 ± 3 | 57 | 180 | 80 | DC 100 | ● |
| SLE102-QJZ | | | | | 80 | AC 125 | ● |
| SLE115-QHZ | 115 | 111 ± 3 | 70 | 180 | 80 | DC 100 | ● |
| SLE115-QJZ | | | | | 80 | AC 125 | ● |
| SLE125-QHZ | 125 | 121 ± 3 | 80 | 180 | 80 | DC 100 | ● |
| SLE125-QJZ | | | | | 80 | AC 125 | ● |
| SLE136-QHZ | 136 | 132 ± 3 | 91 | 180 | 80 | DC 100 | ● |
| SLE136-QJZ | | | | | 80 | AC 125 | ● |

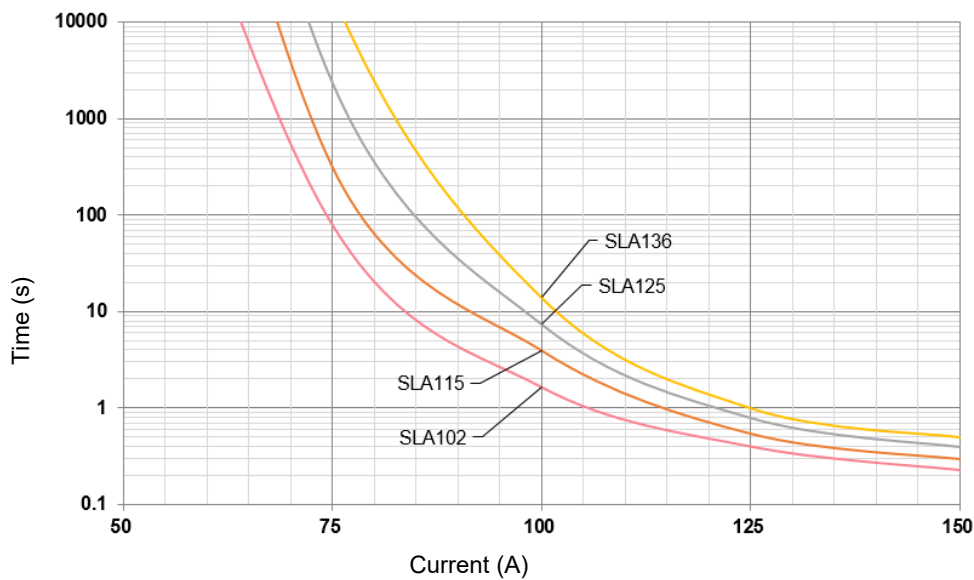
Temp.-Time Curve

The functioning temperature time curve of Alloy Thermal-Link in different Temp. oil bath. (This curve is for reference only)



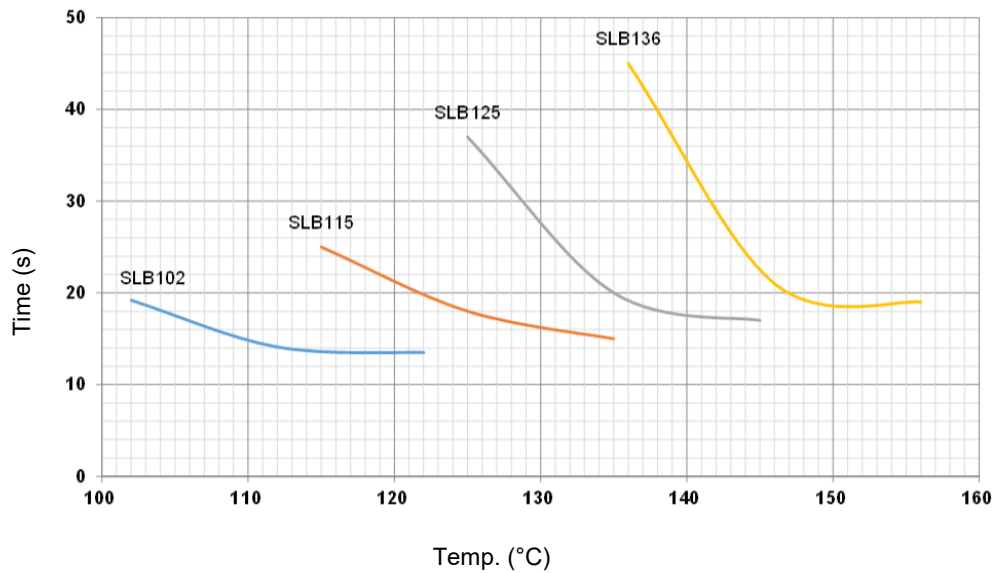
Current-Time Curve

This is an illustrated curve, describing the opening time at Multi-times rated current in the condition of the room Temp. 25 °C. (This curve is for reference only)



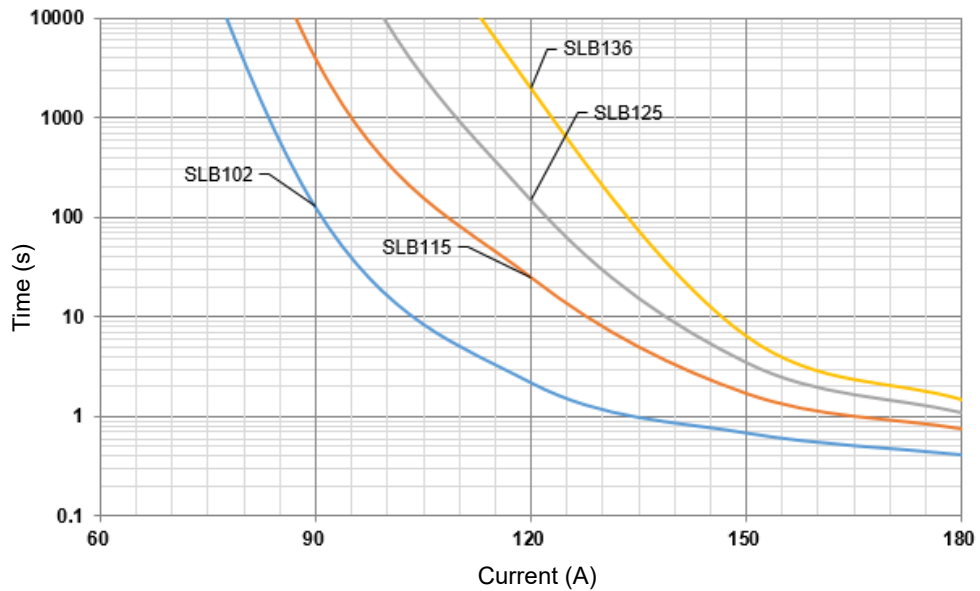
Temp.-Time Curve

The functioning temperature time curve of Alloy Thermal-Link in different Temp. oil bath. (This curve is for reference only)



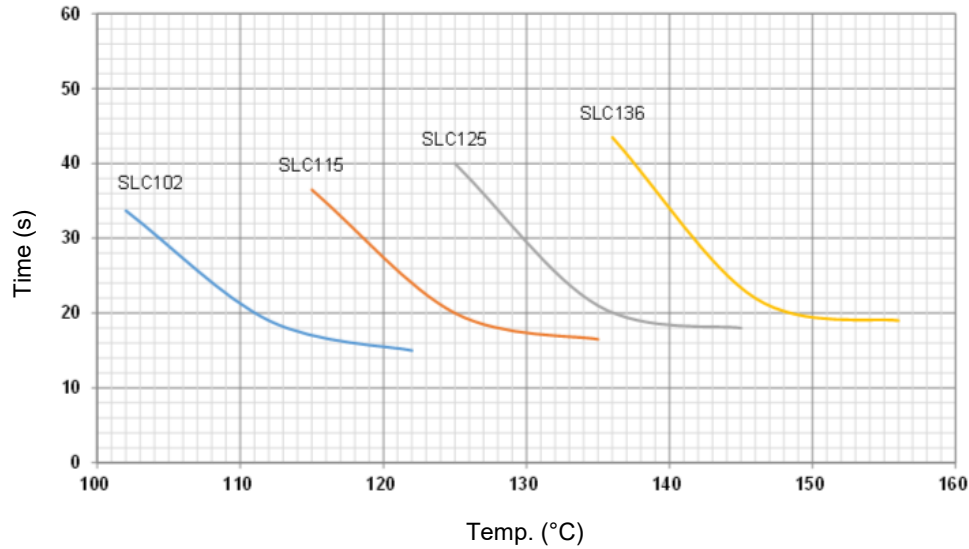
Current-Time Curve

This is an illustrated curve, describing the opening time at Multi-times rated current in the condition of the room Temp. 25 °C. (This curve is for reference only)



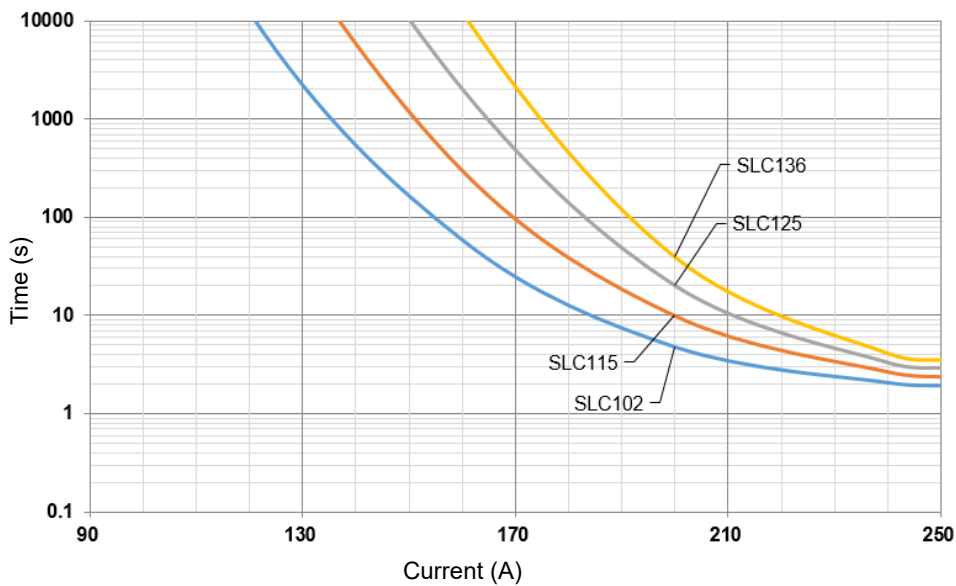
Temp.-Time Curve

The functioning temperature time curve of Alloy Thermal-Link in different Temp. oil bath. (This curve is for reference only)



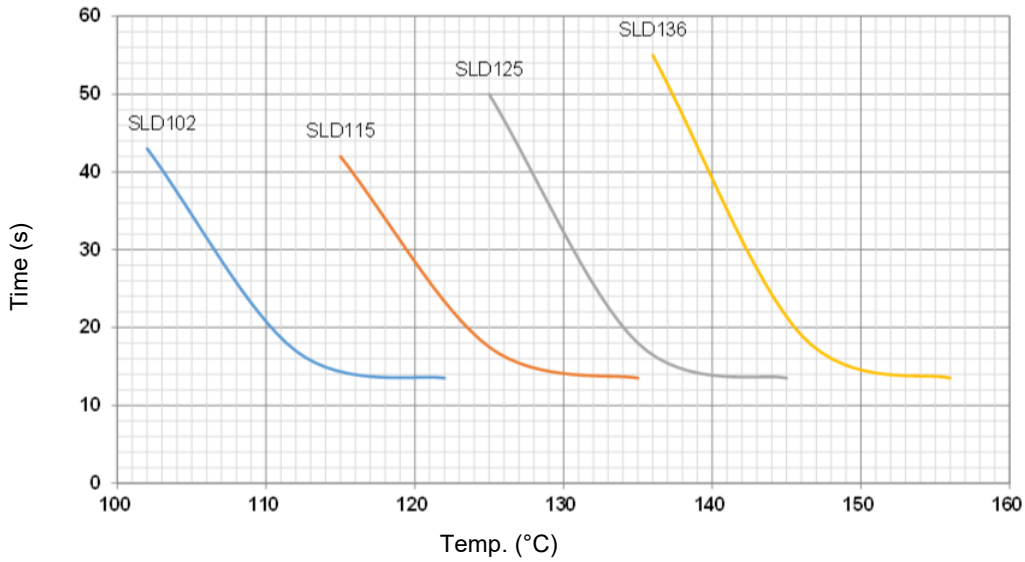
Current-Time Curve

This is an illustrated curve, describing the opening time at Multi-times rated current in the condition of the room Temp. 25 °C. (This curve is for reference only)



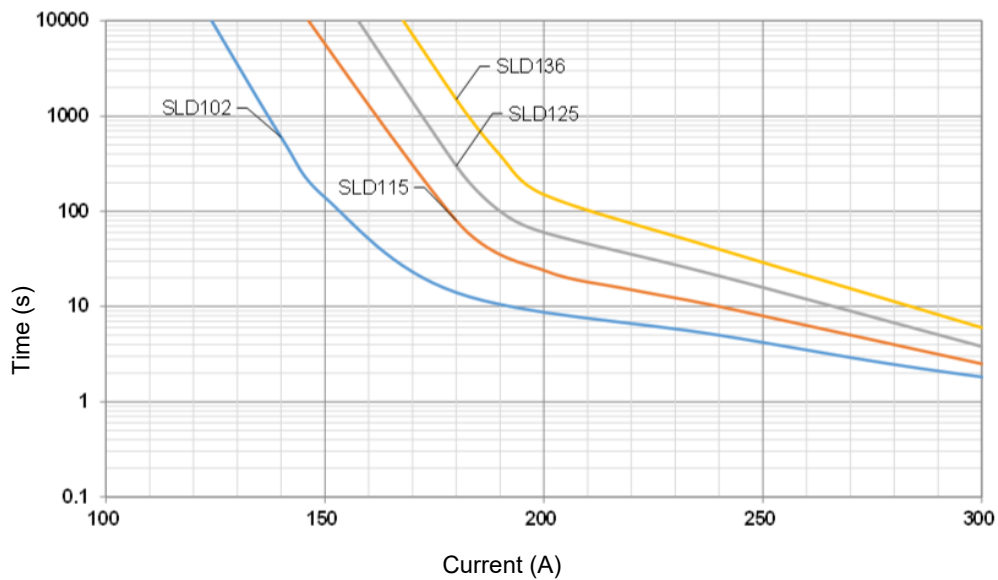
Temp.-Time Curve

The functioning temperature time curve of Alloy Thermal-Link in different Temp. oil bath. (This curve is for reference only)



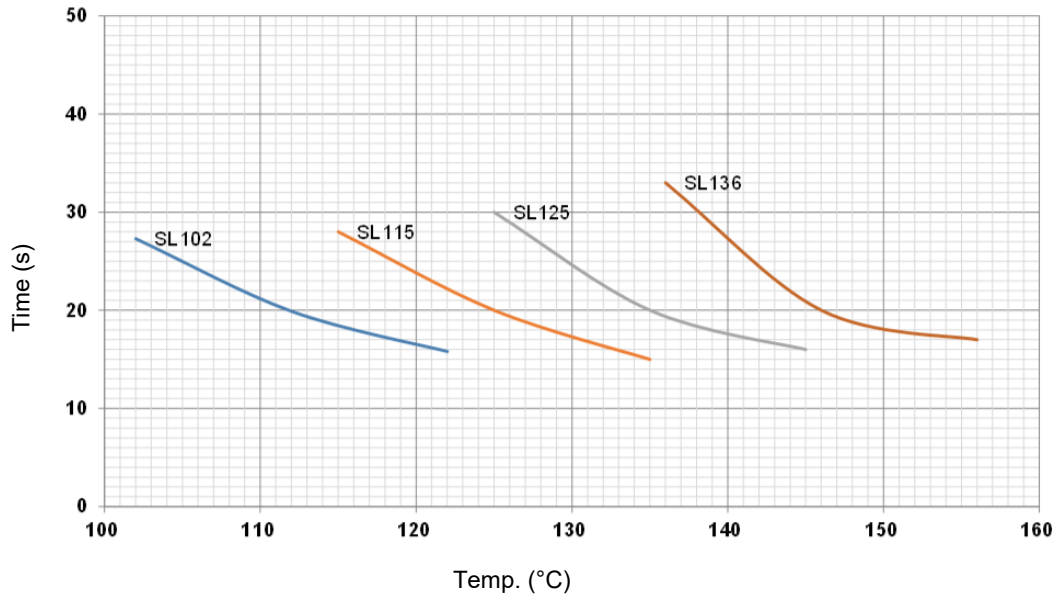
Current-Time Curve

This is an illustrated curve, describing the opening time at Multi-times rated current in the condition of the room Temp. 25 °C. (This curve is for reference only)



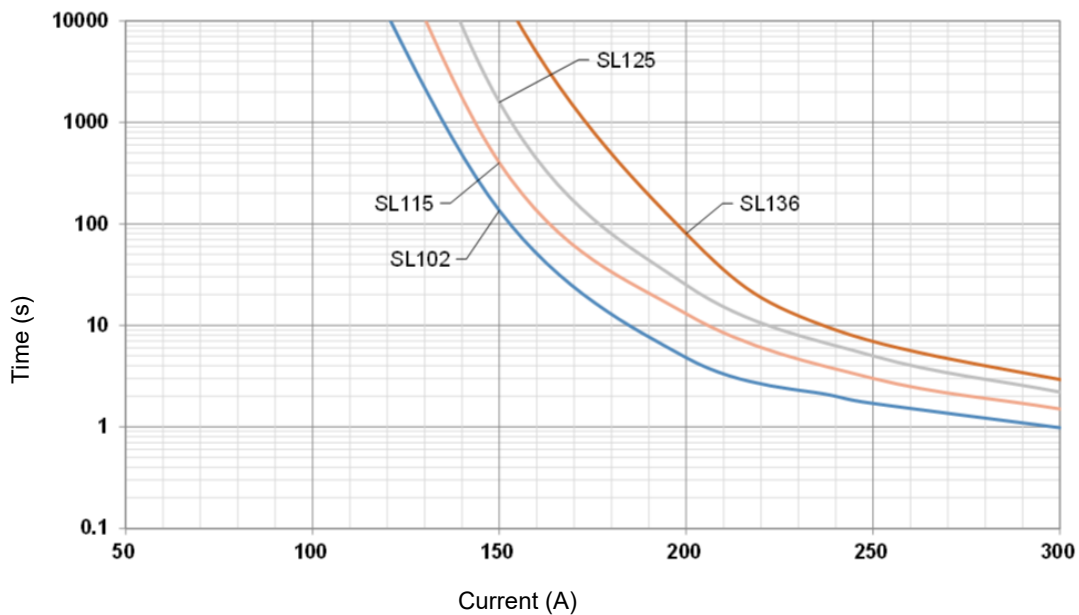
Temp.-Time Curve

The functioning temperature time curve of Alloy Thermal-Link in different Temp. oil bath. (This curve is for reference only)



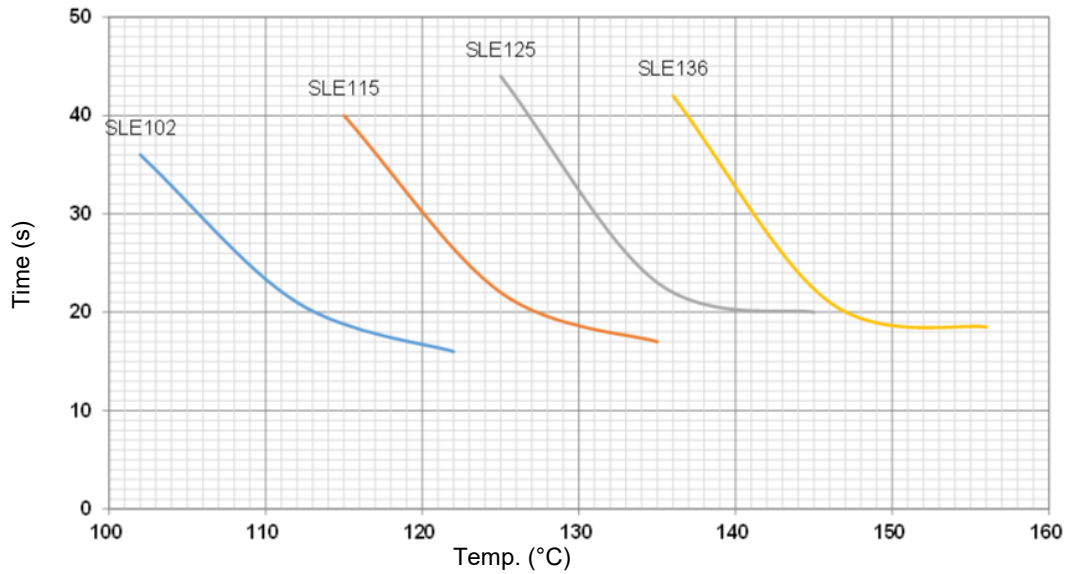
Current-Time Curve

This is an illustrated curve, describing the opening time at Multi-times rated current in the condition of the room Temp. 25 °C. (This curve is for reference only)



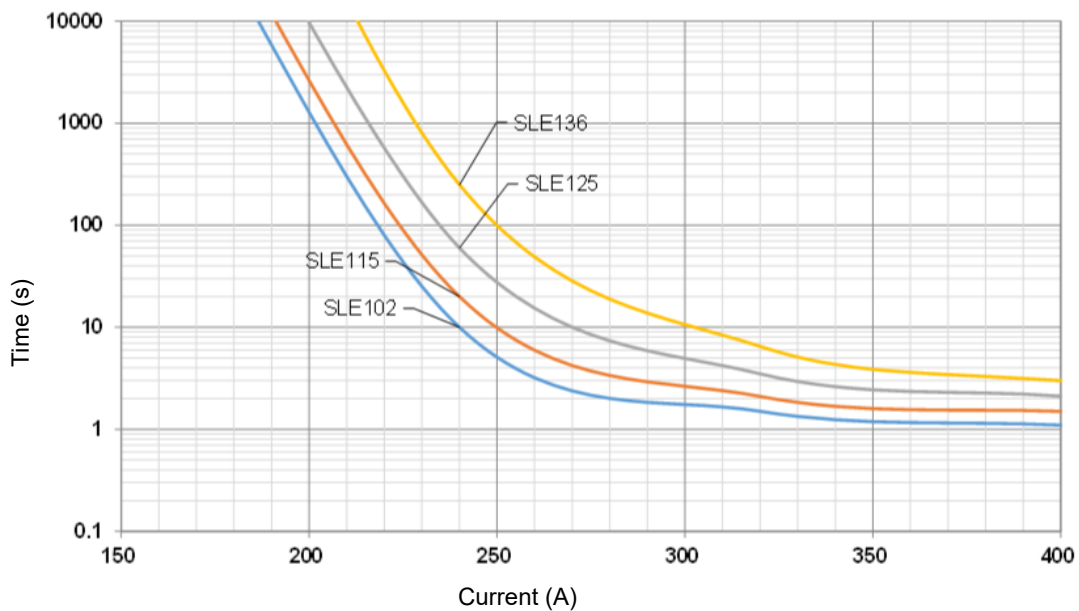
Temp.-Time Curve

The functioning temperature time curve of Alloy Thermal-Link in different Temp. oil bath. (This curve is for reference only)



Current-Time Curve

This is an illustrated curve, describing the opening time at Multi-times rated current in the condition of the room Temp. 25 °C. (This curve is for reference only)

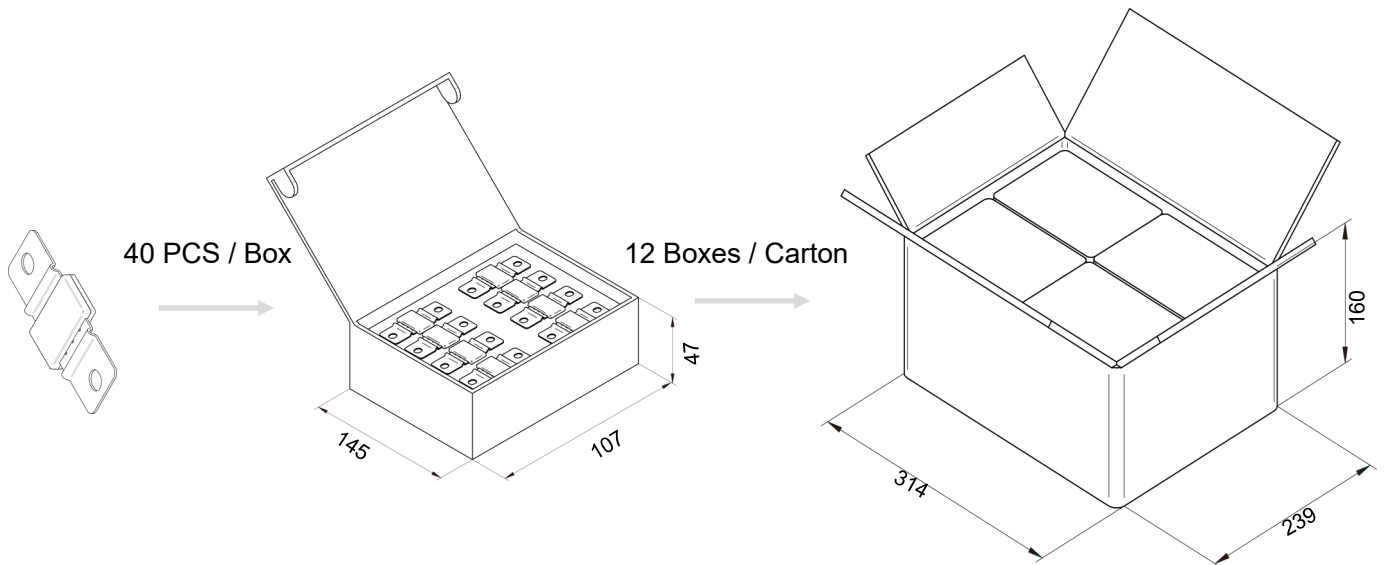


Packaging Information

| Item | Box | Carton |
|--------------------|----------------|-----------------|
| Dimensions (mm) | 145 × 107 × 47 | 314 × 239 × 160 |
| Quantity (PCS) | 40 | 480 |
| Gross Weight (kg): | | 3.3 ± 10% |

DC-ATCO

DC-ATCO





Features

- High Accuracy of Functioning Temp.
- Non-Resettable
- RoHS & REACH Compliant
- DC 50 A
- Meet UN 38.3 standard

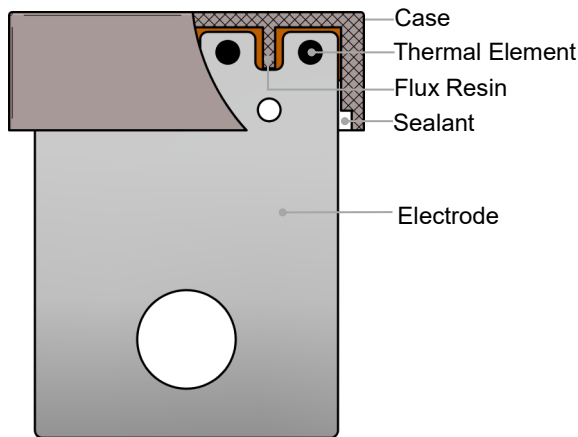
Applications

- EV Battery Modules
- High Power Solid State Relays

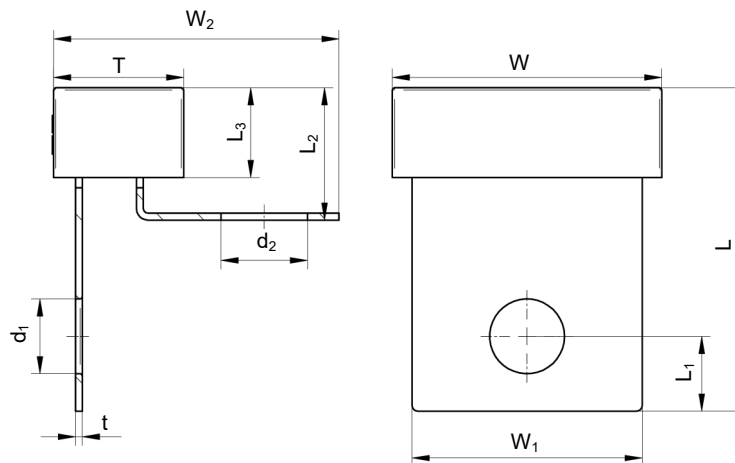
Customization

- Rated Functioning Temp.
- The Shape of Electrode

Structure Diagram



Dimensions (mm)



| L | L ₁ | L ₂ | L ₃ | W | W ₁ | W ₂ | T | t | d ₁ | d ₂ |
|------------|----------------|----------------|----------------|------------|----------------|----------------|------------|-------------|----------------|----------------|
| 28.0 ± 0.5 | 6.5 ± 0.2 | 11.5 ± 0.7 | 7.8 ± 0.5 | 23.4 ± 0.5 | 20.0 ± 0.5 | 24.8 ± 0.5 | 11.3 ± 0.5 | 0.60 ± 0.05 | 6.5 ± 0.1 | 7.5 ± 0.1 |

Specifications

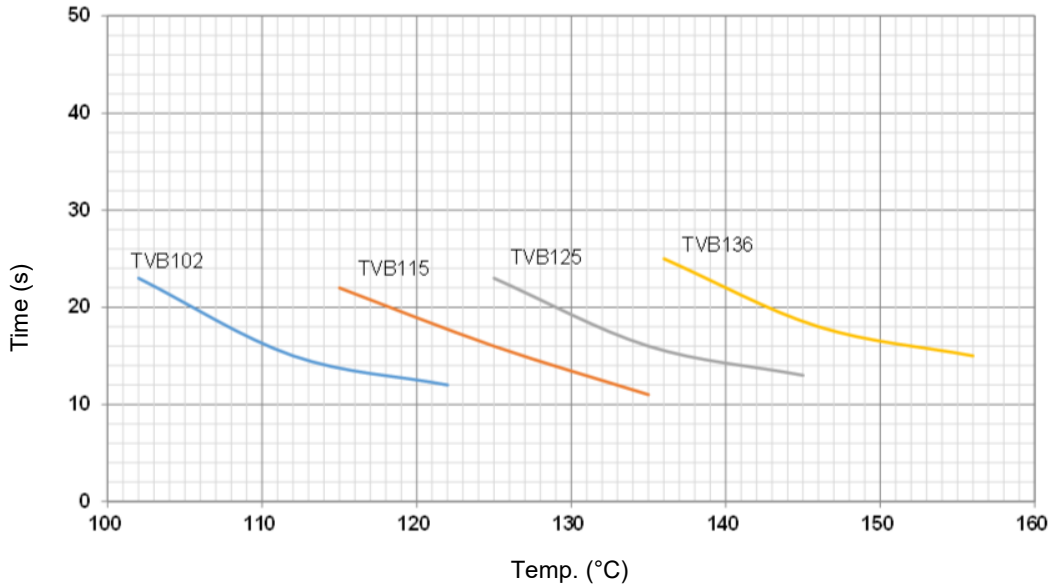
| Model | T_f | Fusing Temp. | T_h | T_m | I_r | U_r | RoHS |
|------------|-------|--------------|-------|-------|-------|-------|-------|
| | (°C) | (°C) | (°C) | (°C) | (A) | (V) | REACH |
| TVB102-NEZ | 102 | 98 ± 3 | 61 | 180 | 50 | 60 | ● |
| TVB115-NEZ | 115 | 111 ± 3 | 70 | 180 | 50 | 60 | ● |
| TVB125-NEZ | 125 | 121 ± 3 | 80 | 180 | 50 | 60 | ● |
| TVB136-NEZ | 136 | 132 ± 3 | 91 | 180 | 50 | 60 | ● |

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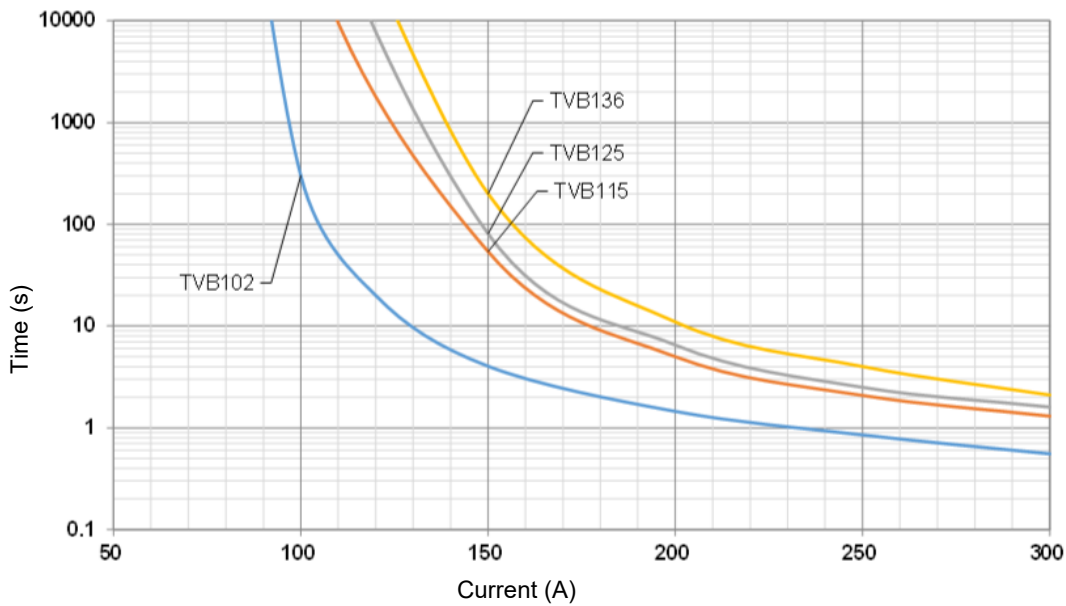
Temp.-Time Curve

The functioning temperature time curve of Alloy Thermal-Link in different Temp. oil bath. (This curve is for reference only)



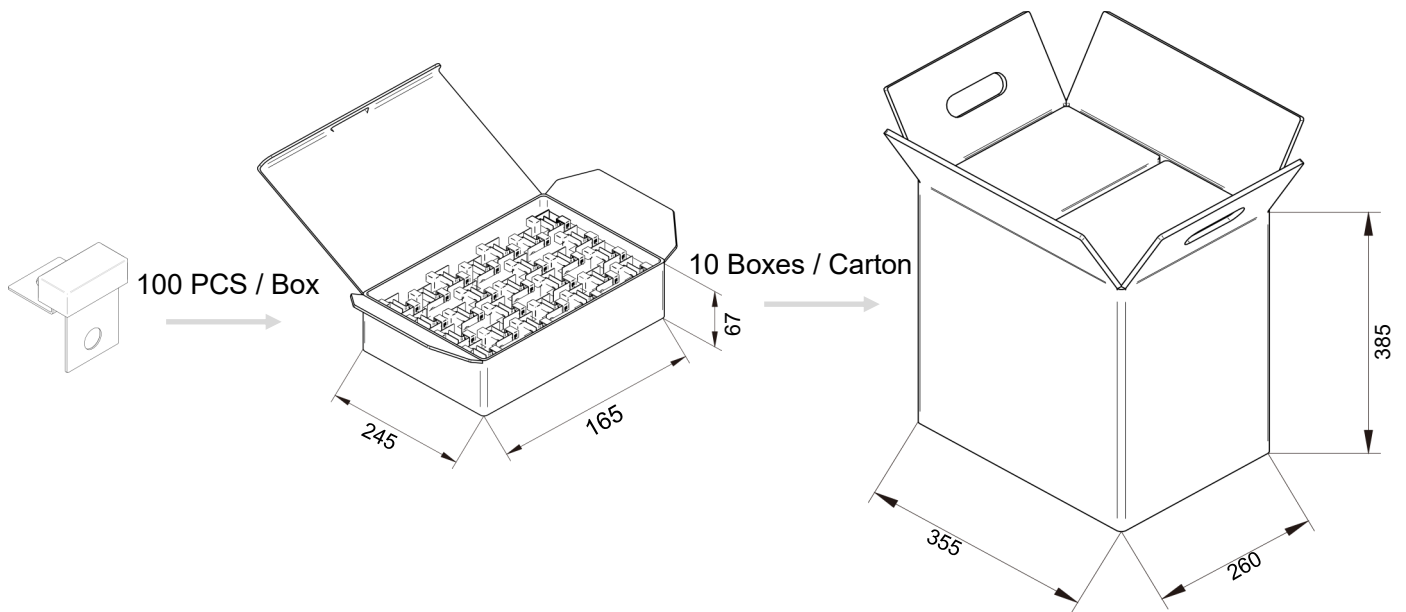
Current-Time Curve

This is an illustrated curve, describing the opening time at Multi-times rated current in the condition of the room Temp. 25 °C. (This curve is for reference only)



Packaging Information

| Item | Box | Carton |
|--------------------|----------------|-----------------|
| Dimensions (mm) | 245 × 165 × 67 | 355 × 260 × 385 |
| Quantity (PCS) | 100 | 1000 |
| Gross Weight (kg): | | 9.8 ± 10% |



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