

PROVIDING A TOTAL SOLUTION FOR HIGH STANDARD SAFETY CIRCUIT PROTECTION

Alpha Therm GmbH: Ihr Offizieller Vertriebskanal für SETsafe/SETfuse

Die Alpha Therm GmbH mit Sitz in Plankstadt, Deutschland, ist stolz darauf, der offizielle Vertriebskanal für SETsafe/SETfuse in Deutschland, Europa und weltweit zu sein. Unsere langjährige Partnerschaft mit SETsafe/SETfuse basiert auf einem erfolgreichen und vertrauensvollen Geschäftsmodell.

Wir repräsentieren SETsafe/SETfuse auf internationalen Messen wie der Electronica, InterSolar, ees und vielen weiteren. Von kleinen Standardsicherungen bis hin zu komplexen, kundenspezifischen Automotive-Projekten – wir haben alles erfolgreich umgesetzt. Mit unserer umfassenden Lagerhaltung in Deutschland gewährleisten wir schnelle und zuverlässige Lieferungen.

Kontaktieren Sie uns! Unser kompetentes Team berät Sie ausführlich und findet die optimale Lösung für Ihre Anforderungen. Vertrauen Sie auf Alpha Therm GmbH und SETsafe/SETfuse – Ihre Partner für innovative Sicherheitslösungen.

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- [+49] 6202 / 575688 0
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Alpha Therm GmbH: Your Official Distribution Channel for SETsafe/SETfuse

Alpha Therm GmbH, based in Plankstadt, Germany, is proud to be the official distribution channel for SETsafe/SETfuse in Germany, Europe, and worldwide. Our long-standing partnership with SETsafe/SETfuse is built on a successful and trustworthy business model.

We represent SETsafe/SETfuse at international trade fairs such as Electronica, InterSolar, ees, and many more. From small standard fuses to complex, customized automotive projects, we have successfully handled it all. With our extensive warehousing in Germany, we ensure fast and reliable deliveries.

Contact us today! Our competent team will provide you with detailed advice and find the optimal solution for your requirements. Trust Alpha Therm GmbH and SETsafe/SETfuse – your partners for innovative safety solutions.

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DC-ATCO Direct Current Thermal-Link (Alloy Type)

TGH Series

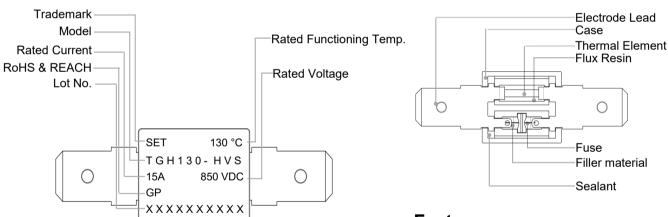


Description

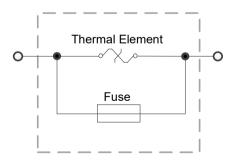
The Direct Current Thermal-Link Alloy Type (DC-ATCO) is a thermal-link that utilizes low melting point alloys, known as the thermal element, which fuse when heated to a specific fusing temperature. This allows for controlled circuit disconnection. The DC-ATCO is composed of various components, including electrode leads, a case, the low melting point alloys (thermal element), flux resin, a fuse, filler material, and sealant. The DC-ATCO is widely employed for over-temperature protection in electrical equipment and electric vehicles. Typically, the low melting point alloys (thermal element) are connected in series between two electrode pins. When the temperature reaches the predetermined fusing temperature of the DC-ATCO, the low melting point alloys (thermal element) melt and swiftly retract to the ends of the two pins, facilitated by the flux resin. This effectively disconnects the circuit.

The SETsafe | SETfuse Direct Current Thermal-Link (Alloy Type) is available in axial and radial shapes, with a Rated Functioning Temperature ranging from 102 °C to 187 °C, Rated Current 15 A, Rated Voltage 850 VDC. It is compliant with RoHS and REACH regulations.

Structure Diagram



Product Schematic



Features

- 0 to 850 VDC Operating Voltage
- High Accuracy of Functioning Temp.
- Ceramic Case
- Non-Resettable
- RoHS & REACH Compliant

Applications

- Battery Cooling Heaters
- Air-Conditioners Heaters
- Pre-charged Resistors
- High Power LED

Customization

- Rated Functioning Temp.
- The Shape of Electrode

Marking

+86-592-571-5838 www.SETfuse.com www.SETsafe.com E-mail : sales@SETfuse.com

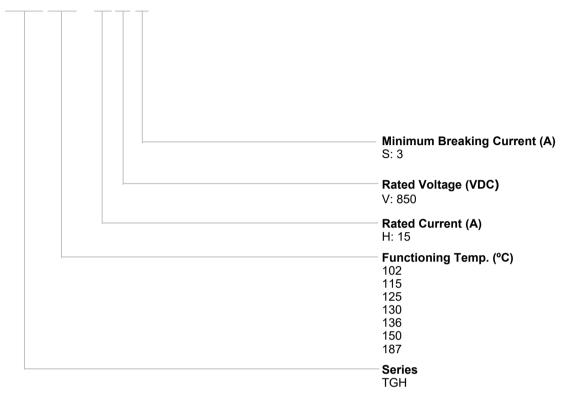
SET safe SET fuse

DC-ATCO Direct Current Thermal-Link (Alloy Type)

TGH Series

Part Number System

TGH130 - H V S



Reminder:

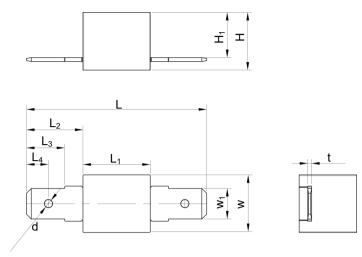
Part numbering system in the datasheet is only for selecting correct parameter and product features. Before placing order, please contact us for specifications and use the part number and product code in the specifications to place order to ensure the part is correct. Product code is the unique indentification.

SET safe | SET fuse

DC-ATCO Direct Current Thermal-Link (Alloy Type)

TGH Series

Dimensions (Unit: mm)



| L | L ₁ | L ₂ | L ₃ L ₄ | | W | W ₁ | Н | 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 +0.5 | 9.4 | 0.80 ± 0.05 | 1.65 ± 0.20 |

Specifications

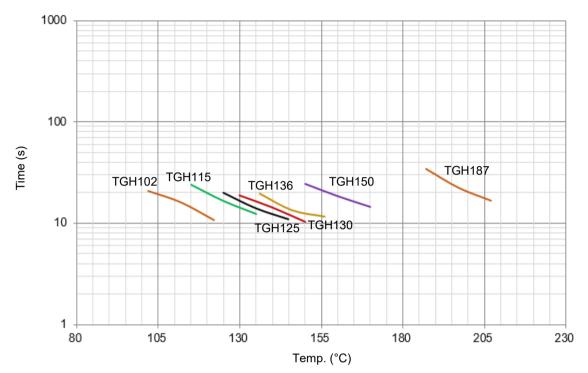
| (<i>T</i> _f) °C | | Model | Ir Ur | | Rated Functioning Temp. | T _h | T _m | I _{min} | RoHS REACH |
|------------------------------|-----|------------|-------|--------|---------------------------------------|----------------|----------------|------------------|---------------|
| Ľ, | | | (A) | DC (V) | (°°) | (°C) | (°C) | (A) | |
| | 187 | TGH187-HVS | 15 | 850 | 182 ⁺⁵ | 155 | 250 | 3 | • |
| Rated Functioning Temp. | 150 | TGH150-HVS | 15 | 850 | 146 ± 3 | 105 | 250 | 3 | • |
| | 136 | TGH136-HVS | 15 | 850 | 131 ± 3 | 95 | 250 | 3 | • |
| | 130 | TGH130-HVS | 15 | 850 | 126 ± 3 | 90 | 250 | 3 | • |
| | 125 | TGH125-HVS | 15 | 850 | 122 ± 3 | 75 | 250 | 3 | • |
| | 115 | TGH115-HVS | 15 | 850 | 112 ± 3 | 65 | 250 | 3 | • |
| | 102 | TGH102-HVS | 15 | 850 | 99 ⁺⁵ ₋₃ | 63 | 250 | 3 | • |

Note:

1. RoHS & REACH Comply.

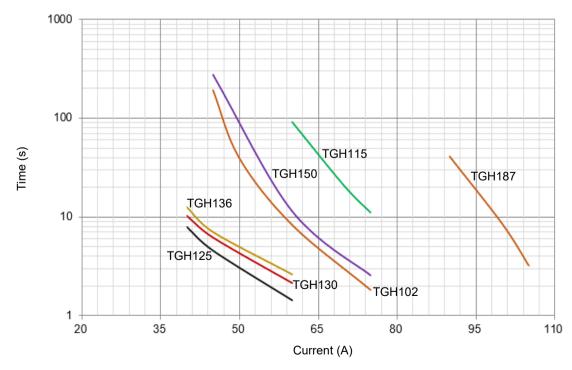
Temp.-Time Curve

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



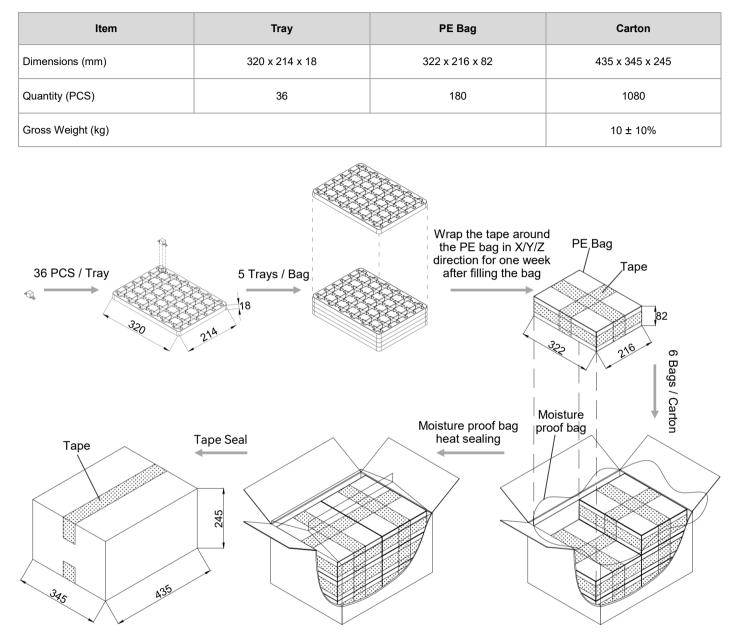
Current-Time Curve

This is an illustrated curve, describing the opening time at Multi-times rated current in the condition of the room Temp. 25 $^{\circ}$ C (For reference only).





Packaging Information





Glossary

| ltem | Description |
|------------------|--|
| DC-ATCO | DC-Alloy Thermal-Link DC-Alloy type Thermal-Link, Alloy is thermal element. |
| T _f | Rated Functioning Temp. 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. Tolerance: $T_f (0 / -10)$ °C (GB 9816, EN 60691, K60691). Tolerance: $T_f \pm 7$ °C (J60691). |
| Fusing Temp. | Fusing Temp. 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. |
| T _h | Holding Temp. The Maximum temperature at which a Thermal-Link will not change its state of conductivity when conducting rated current for 168 hours. |
| T _m | Maximum Temp. Limit 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. |
| I _{min} | Minimum Breaking Current The minimum current that Fuse requires after the Alloy of Thermal-Link opens in the circuit. |
| l _r | Rated Current 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. |
| U _r | Rated Voltage 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. |

SET safe SET fuse



ATTENTION

Usage

- 1. When atmosphere pressure is from 80 kPa to 106 kPa, the related altitude shall be from -500 m to 2000 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. he 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.

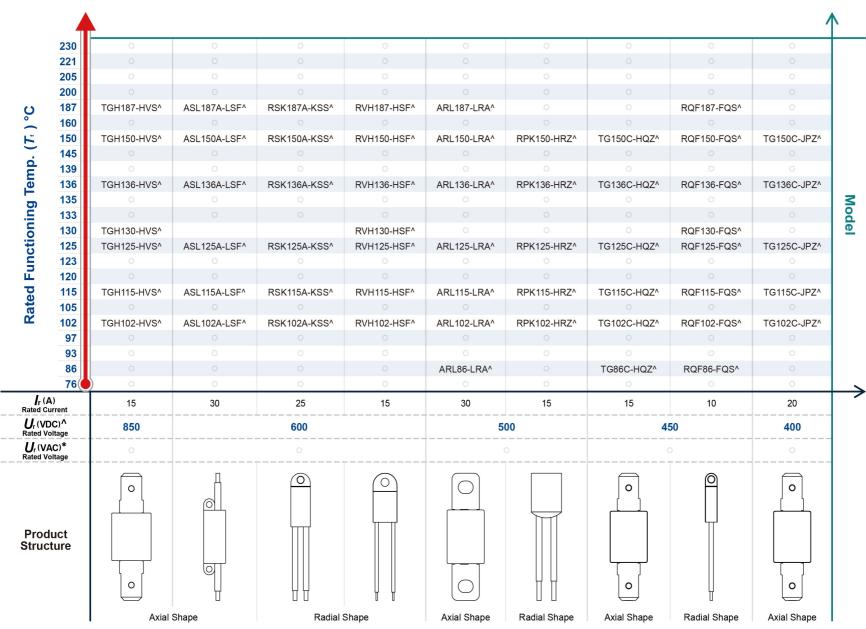
Installation position of mechanical performance requirements

- 1. Ensure that the lead wire 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

- 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.



TGH Series

ET safe

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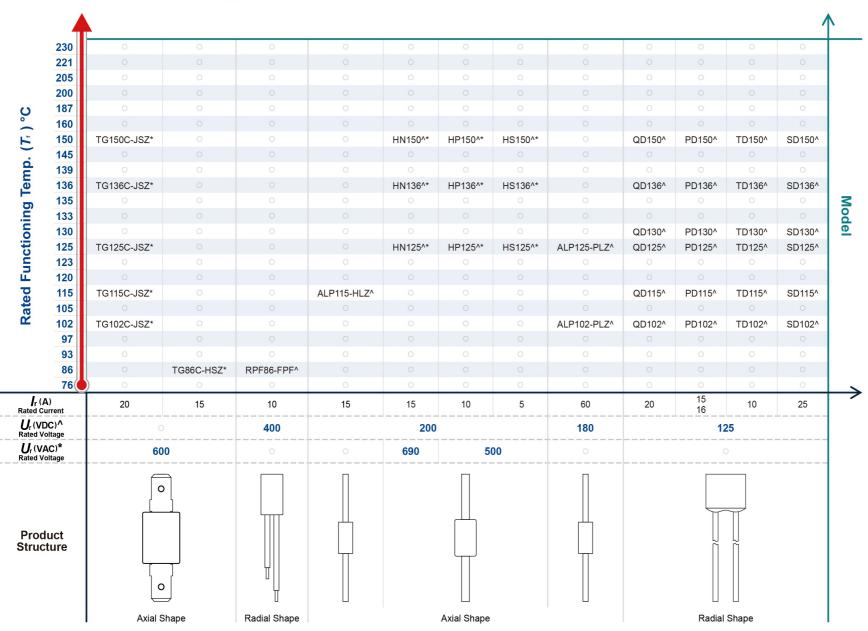
fuse

Direct Current Thermal-Link (Alloy Type)

DC

ATC

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Direct Current Thermal-Link (Alloy Type)

DC

ATC

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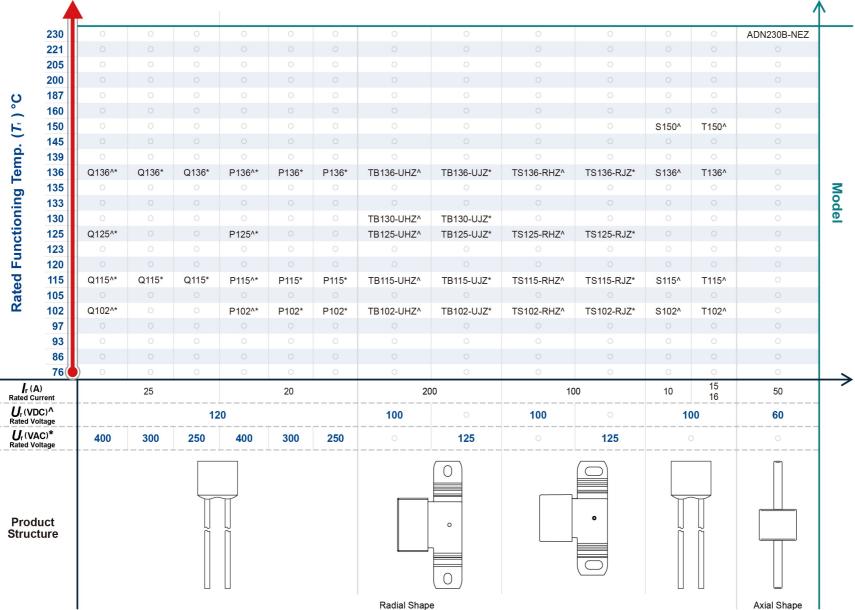
ET safe

SET fuse

TGH Series

Direct Current Thermal-Link Alloy Type (DC-ATCO) Features & Model List Overview

.com



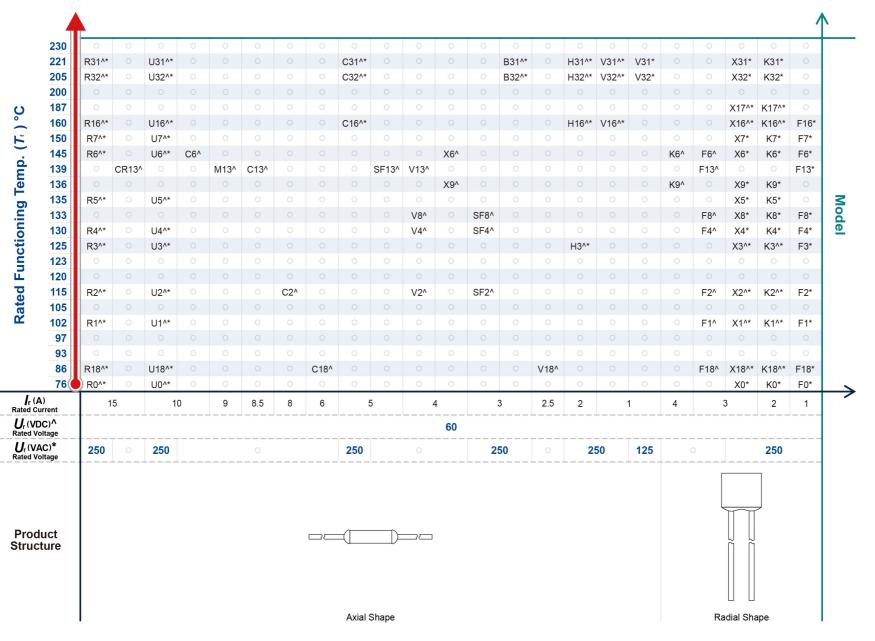
Direct Current Thermal-Link (Alloy Type)

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ATCO

ET safe SET fuse

TGH Series



TGH Series

ETsafe **SET** fuse

Direct Current Thermal-Link (Alloy Type)

DC

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|----------------|---|--|--|---|---|---|--|---|---|---|--|--|--|--|--|--|
| 230 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADN230B-NDZ^ | ADN230B-PDZ^ | 0 | ADN230B-QBZ^ | |
| | XG31* | KG31* | | | C31* | | B31* | | | | | 0 | 0 | ADN205B-NDZ^ | 0 | |
| | XG32* | KG32* | | | C33* | | B32* | | H32* | | | | | | | |
| | 0 | | | | | | | | | | | | | | | |
| 187 | 0 | | | | | | | | | | | | | | | |
| 160 | XG16* | KG16* | | | | B16* | | | | | | | | | | |
| 150 | XG7* | KG7* | C7^ | C7* | | B7^* | | H7^* | | V7^* | | | | | | |
| 145 | XG6* | KG6* | C6^ | C6* | | B6^* | | H6^* | | V6^* | | | | | | |
| 139 | 0 | | C13^ | C13* | | B13^* | | H13^* | | V13^* | | | | | | |
| 136 | XG9* | KG9* | C9^ | C9* | | B9^* | | H9^* | | V9^* | | | | | | |
| 135 | XG5* | KG5* | C5^ | C5* | | B5^* | | H5^* | | V5^* | | | | | | Model |
| 133 | XG8* | KG8* | C8^ | C8* | | B8^* | | H8^* | | V8^* | | | | | | <u> </u> |
| 130 | XG4* | KG4* | C4^ | C4* | | B4^* | | H4^* | | V4^* | | | | | | <u>e</u> |
| 125 | XG3^* | KG3^* | C3^ | C3* | | B3^* | | | | V3^* | | | | | | |
| 123 | 0 | | | | | | | | | | | | | | | |
| 120 | 0 | | | | | | | | | | | | | | | |
| 115 | XG2^* | KG2^* | C2^ | C2* | | B2^* | | H2^* | | V2^* | | | | | | |
| 105 | 0 | | | | | | | | | | | | | | | |
| | XG1^* | KG1^* | | C1^* | C1* | B1^* | B1* | H1^* | H1* | V1^* | V1* | | | | | |
| | 0 | | | | C21^* | | B21^* | | H21^* | | V21^* | | | | | |
| 93 | 0 | | | | | | | | | | | | | | | |
| | XG18^* | | | | C18* | | | | | | V18* | | | | | |
| |) XG0* | KG0* | 0 | C0* | 0 | B0^* | B0* | H0^* | H0* | V0^* | V0* | 0 | 0 | 0 | 0 | \rightarrow |
| | | 3 2 | | 7 5 | | 3 | | | 2 1 | | | 50 | 55 | 50 | 80 | - |
| DC)^ oltage | 60 | | | | 50 | | | | | | 49 | 48 24 | | 24 | | |
| AC)* | 2 | 50 | 0 | 250 | 125 | 250 | 125 | 250 | 125 250 125 | | 0 | | | | | |
| luct ture | Radial | | | | | | | | | Axial Sha | | | | | | |
| | 160 150 145 139 136 135 133 130 125 123 120 115 105 102 97 93 86 76 (A) urrent DC)^ ottage | 221 XG31* 205 XG32* 200 0 187 0 160 XG16* 150 XG7* 145 XG6* 139 0 136 XG9* 135 XG5* 133 XG4* 125 XG3^* 120 0 115 XG2^* 102 XG1^* 97 0 93 0 86 XG18^* 76 XG0* AC)* 21 AC)* 22 | 221 XG31* KG31* 205 XG32* KG32* 200 O O 187 O O 160 XG16* KG16* 150 XG7* KG7* 145 XG6* KG6* 139 O O 136 XG9* KG9* 135 XG5* KG5* 133 XG8* KG8* 130 XG4* KG4* 125 XG3^* KG3^* 120 O O 121 O O 122 XG1* KG1* 123 O O 124 XG1* KG1* 125 XG1** KG1** 126 O O 137 ZG1** KG1** 138 XG1** KG1** 139 O O 130 XG1** KG1** 1315 XG2** KG2** 130 XG1** KG1** 140 | 221 XG31* KG31* O 205 XG32* KG32* O 200 O O O 187 O O O 160 XG16* KG16* O 150 XG7* KG7* C7^ 145 XG6* KG6* C6^ 139 O O C13^ 136 XG9* KG9* C9^ 135 XG5* KG6* C6^ 130 XG4* KG4* C4^ 125 XG3^* KG3^* C3^ 130 XG2^* KG2^* C2^ 121 O O O 122 O O O 123 O O O 124 XG2^* KG2^* C2^ 105 O O O 97 O O O 97 O O O 97 S0* KG1* O 97 G O | 221 XG31* KG31* O O 205 XG32* KG32* O O 200 O O O O 200 O O O O 187 O O O O 160 XG16* KG16* C O 150 XG7* KG7* C7^A C7* 145 XG6* KG6* C6A C6* 139 O O C13^A C13* 136 XG9* KG9* C9A C9* 135 XG5* KG5* C5A C5* 133 XG8* KG8* C8A C8* 130 XG4* KG4* C4A C4* 125 XG3A* KG2A* C2A C2* 131 XG2A* KG2A* C2A C2* 120 O O O O 121 XG2A* KG2A* C2A C2* 122 XG1A* KG1A* O C1A* <th>221 XG31* KG31* O C31* 205 XG32* KG32* O C33* 200 O O O O C33* 200 O O O O O O 187 O O O O O O 187 O O O O O O 160 XG16* KG16* C6^/td> O O 150 XG7* KG7* C7^/td> C7* O 145 XG6* KG6* C6^/td> C6* O 139 O O C13^/tde/tde/tde/tde/tde/tde/tde/tde/tde/tde</th> <th>221 XG31* KG31* ○ ○ C31* ○ 205 XG32* KG32* ○ ○ ○ ○ ○ 200 ○ ○ ○ ○ ○ ○ ○ 187 ○ ○ ○ ○ ○ ○ ○ 187 ○ ○ ○ ○ ○ ○ ○ 160 XG16* KG16* C6* ○ ○ ○ ○ 145 XG6* KG6* C6* C6* ○ ○ □ 139 ○ ○ C13* C13* ○ □ □ 136 XG5* KG5* C5* C5* ○ □ □ 133 XG8* KG3* C3* C3* □ □ □ □ 133 XG8* KG3* C3* C3* □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □</th> <th>221 XG31* KG31* O C31* O B31* 205 XG32* KG32* O O C33* O B32* 200 O O O O O O O O 187 O O O O O O O O 180 XG7* KG7* C7* C7* O B16* O 150 XG7* KG7* C7* O B7** O 145 XG6* KG6* C6* O B6** O 139 O O C13* O B9** O 131 XG8* KG9* C9* O B9** O 133 XG8* KG8* C8* C8* B8** O O 133 XG8* KG3* C3* C3* O B4** O 123 O O O O O O O O 124 XG3* KG2** <td< th=""><th>2211 XG31* KG31* ○ ○ C31* ○ B31* ○ 205 XG32* KG32* ○ <</th><th>221 XG31* KG31* O O C31* O B31* O H31* 205 XG32* KG32* O O C33* B32* H32* 200 O <td< th=""><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0 205 XG32* KG32* 0</th><th>221 XG31* KG31* O O C31* O B31* O H31* O O 205 XG32* KG32* O O C33* O B32* O H32* O O 200 O <td< th=""><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0 0 0 205 XG32* KG32* G 0 C33* 0 B32* 0 H32* 0<</th><th>221 XG31* KG31* 0 C31* 0 B31* 0 H31* 0</th><th>221 XG31* KG31* G O C31* O B31* O H31* O O O ADN205B-MD2* 205 JG32* KG32* C C33* C B32* O<!--</th--><th>221 XG31 KG31 O C31 O B31 O H31 O O O ADN2558-NDZ* 286 KG32 KG32 C O C C33 O B32 O H32 O O O O O O 187 O O O O O O O O O O O O 187 O</th></th></td<></th></td<></th></td<></th> | 221 XG31* KG31* O C31* 205 XG32* KG32* O C33* 200 O O O O C33* 200 O O O O O O 187 O O O O O O 187 O O O O O O 160 XG16* KG16* C6^/td> O O 150 XG7* KG7* C7^/td> C7* O 145 XG6* KG6* C6^/td> C6* O 139 O O C13^/tde/tde/tde/tde/tde/tde/tde/tde/tde/tde | 221 XG31* KG31* ○ ○ C31* ○ 205 XG32* KG32* ○ ○ ○ ○ ○ 200 ○ ○ ○ ○ ○ ○ ○ 187 ○ ○ ○ ○ ○ ○ ○ 187 ○ ○ ○ ○ ○ ○ ○ 160 XG16* KG16* C6* ○ ○ ○ ○ 145 XG6* KG6* C6* C6* ○ ○ □ 139 ○ ○ C13* C13* ○ □ □ 136 XG5* KG5* C5* C5* ○ □ □ 133 XG8* KG3* C3* C3* □ □ □ □ 133 XG8* KG3* C3* C3* □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ | 221 XG31* KG31* O C31* O B31* 205 XG32* KG32* O O C33* O B32* 200 O O O O O O O O 187 O O O O O O O O 180 XG7* KG7* C7* C7* O B16* O 150 XG7* KG7* C7* O B7** O 145 XG6* KG6* C6* O B6** O 139 O O C13* O B9** O 131 XG8* KG9* C9* O B9** O 133 XG8* KG8* C8* C8* B8** O O 133 XG8* KG3* C3* C3* O B4** O 123 O O O O O O O O 124 XG3* KG2** <td< th=""><th>2211 XG31* KG31* ○ ○ C31* ○ B31* ○ 205 XG32* KG32* ○ <</th><th>221 XG31* KG31* O O C31* O B31* O H31* 205 XG32* KG32* O O C33* B32* H32* 200 O <td< th=""><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0 205 XG32* KG32* 0</th><th>221 XG31* KG31* O O C31* O B31* O H31* O O 205 XG32* KG32* O O C33* O B32* O H32* O O 200 O <td< th=""><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0 0 0 205 XG32* KG32* G 0 C33* 0 B32* 0 H32* 0<</th><th>221 XG31* KG31* 0 C31* 0 B31* 0 H31* 0</th><th>221 XG31* KG31* G O C31* O B31* O H31* O O O ADN205B-MD2* 205 JG32* KG32* C C33* C B32* O<!--</th--><th>221 XG31 KG31 O C31 O B31 O H31 O O O ADN2558-NDZ* 286 KG32 KG32 C O C C33 O B32 O H32 O O O O O O 187 O O O O O O O O O O O O 187 O</th></th></td<></th></td<></th></td<> | 2211 XG31* KG31* ○ ○ C31* ○ B31* ○ 205 XG32* KG32* ○ < | 221 XG31* KG31* O O C31* O B31* O H31* 205 XG32* KG32* O O C33* B32* H32* 200 O <td< th=""><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0 205 XG32* KG32* 0</th><th>221 XG31* KG31* O O C31* O B31* O H31* O O 205 XG32* KG32* O O C33* O B32* O H32* O O 200 O <td< th=""><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0 0 0 205 XG32* KG32* G 0 C33* 0 B32* 0 H32* 0<</th><th>221 XG31* KG31* 0 C31* 0 B31* 0 H31* 0</th><th>221 XG31* KG31* G O C31* O B31* O H31* O O O ADN205B-MD2* 205 JG32* KG32* C C33* C B32* O<!--</th--><th>221 XG31 KG31 O C31 O B31 O H31 O O O ADN2558-NDZ* 286 KG32 KG32 C O C C33 O B32 O H32 O O O O O O 187 O O O O O O O O O O O O 187 O</th></th></td<></th></td<> | 221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0 205 XG32* KG32* 0 | 221 XG31* KG31* O O C31* O B31* O H31* O O 205 XG32* KG32* O O C33* O B32* O H32* O O 200 O <td< th=""><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0 0 0 205 XG32* KG32* G 0 C33* 0 B32* 0 H32* 0<</th><th>221 XG31* KG31* 0 C31* 0 B31* 0 H31* 0</th><th>221 XG31* KG31* G O C31* O B31* O H31* O O O ADN205B-MD2* 205 JG32* KG32* C C33* C B32* O<!--</th--><th>221 XG31 KG31 O C31 O B31 O H31 O O O ADN2558-NDZ* 286 KG32 KG32 C O C C33 O B32 O H32 O O O O O O 187 O O O O O O O O O O O O 187 O</th></th></td<> | 221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0 0 0 205 XG32* KG32* G 0 C33* 0 B32* 0 H32* 0< | 221 XG31* KG31* 0 C31* 0 B31* 0 H31* 0 | 221 XG31* KG31* G O C31* O B31* O H31* O O O ADN205B-MD2* 205 JG32* KG32* C C33* C B32* O </th <th>221 XG31 KG31 O C31 O B31 O H31 O O O ADN2558-NDZ* 286 KG32 KG32 C O C C33 O B32 O H32 O O O O O O 187 O O O O O O O O O O O O 187 O</th> | 221 XG31 KG31 O C31 O B31 O H31 O O O ADN2558-NDZ* 286 KG32 KG32 C O C C33 O B32 O H32 O O O O O O 187 O O O O O O O O O O O O 187 O |

TGH Series

SET safe SET fuse

DC-ATCO Direct Current Thermal-Link (Alloy Type)