

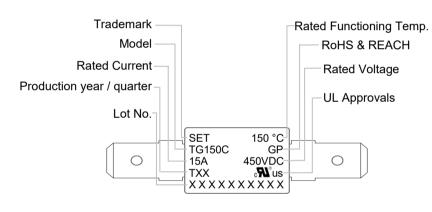




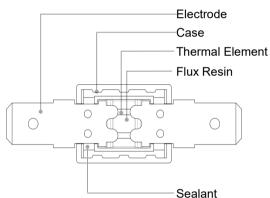
The Direct Current Thermal-Link Alloy Type (DC-ATCO) is defined as a non-resettable protective device functioning only once. It is widely used for over-temperature protection of electrical equipment and electric vehicles. The DC-ATCO primarily consists of Electrode, Case, a low melting point Thermal Element, Flux Resin and Sealant. Normally, the Thermal Element is joined to the two lead wires. When the temperature reaches the fusing temperature of the Direct Current Thermal-Link (Alloy Type), the Thermal Element melts and quickly retracts to the two lead wire ends with the aid of the flux resin, disconnecting the circuit completely.

The SETsafe | SETfuse Direct Current Thermal-Link (Alloy Type) is classified into Axial and Radial shapes, with a Rated Functioning Temperature ranging from 86 °C to 150 °C, Rated Current: 15 A, 20 A, Rated Voltage: 450 VDC, 400 VDC, 600 VAC, and it holds UL, cUL Approvals. It is also RoHS and REACH compliant.

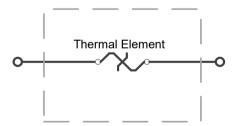
Marking



Structure Diagram



Product Schematic



Agency Information

| Agency Symbol | Standards | The File No. and certification No. obtained by SETsafe SETfuse |
|------------------|----------------|--|
| AL ® | UL60691 | E214712 |
| c 711 ® | CAN-CSA-E60691 | E214712 |

Features

- 0 to 450 VDC / 0 to 600 VAC 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

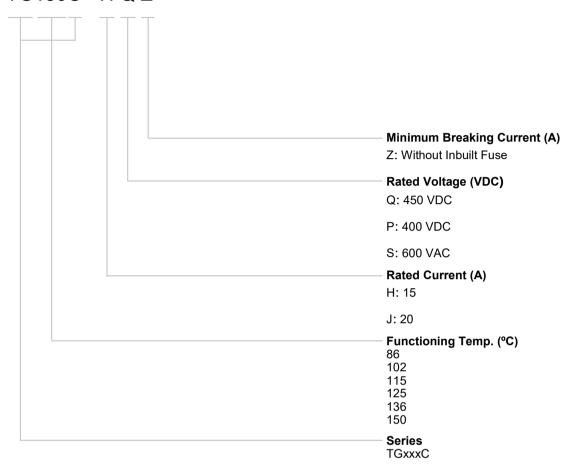
Customization

- Rated Functioning Temp.
- The Shape of Electrode

TGxxxC Series

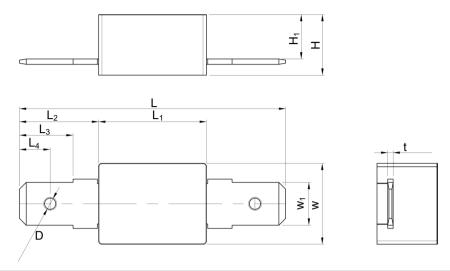
Part Number System

TG150C - H Q Z





Dimensions (Unit: mm)



| L | L ₁ | L ₂ | L ₃ | L ₄ | W | W ₁ | Н | 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 | $9.0^{\tiny{+0.5}}_{\tiny{-0.1}}$ | 6.0 +1.0 | 0.80 ± 0.05 | 1.65 ± 0.20 |

Specifications

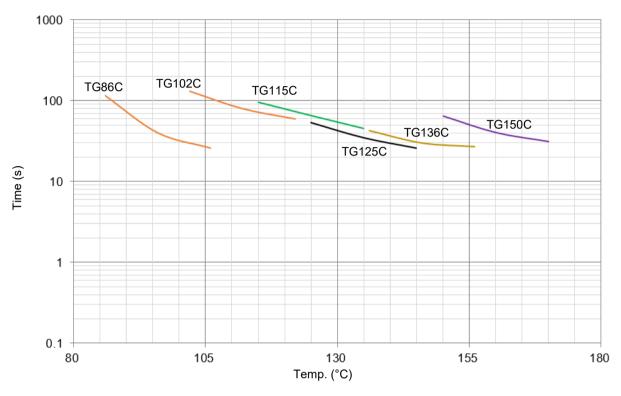
| | | Model | I _r | U r | Rated Functioning Temp. | T _h | T _m | 71 ® | c 71/ ® | RoHS REACH |
|------------------------------|-----|--------|----------------|------------|-------------------------|----------------|----------------|-------------|----------------|---------------|
| | | | (A) | (V) | (°C) | (°C) | (°C) | UL | cUL | REACH |
| S | | | 15 | DC 450 | | | | • | • | • |
| • | 150 | TG150C | 20 | DC 400 | 146 ± 3 | 100 | 250 | • | • | • |
| (<i>T</i> _f) °C | | | 20 | AC 600 | | | | • | • | • |
| | | | 15 | DC 450 | | | | • | • | • |
| d | 136 | TG136C | 20 | DC 400 | 131 ± 3 | 100 | 250 | • | • | • |
| Temp. | | | 20 | AC 600 | | | | • | • | • |
| | | | 15 | DC 450 | | | | • | • | • |
| <u></u> | 125 | TG125C | 20 | DC 400 | 122 ± 3 | 85 | 250 | • | • | • |
| <u>n</u> | | | 20 | AC 600 | | | | • | • | • |
| Functioning | | | 15 | DC 450 | | 72 | | • | • | • |
| | 115 | TG115C | 20 | DC 400 | 112 ± 3 | 70 | 250 | • | • | • |
| T | | | 20 | AC 600 | | 70 | | • | • | • |
| | | | 15 | DC 450 | | 65 | | • | • | • |
| te | 102 | TG102C | 20 | DC 400 | 99 + 5 | 00 | 250 | • | • | • |
| Rated | 102 | | 20 | AC 600 | 1 | 62 | | • | • | • |
| | 00 | | 15 | DC 450 | | 40 | | • | • | • |
| | 86 | TG86C | 15 | AC 600 | 81 ± 3 | 43 | 250 | • | • | • |

Note:

- "●" Means certificated, "○" Means non-certificated.
- 2. RoHS & REACH Comply.

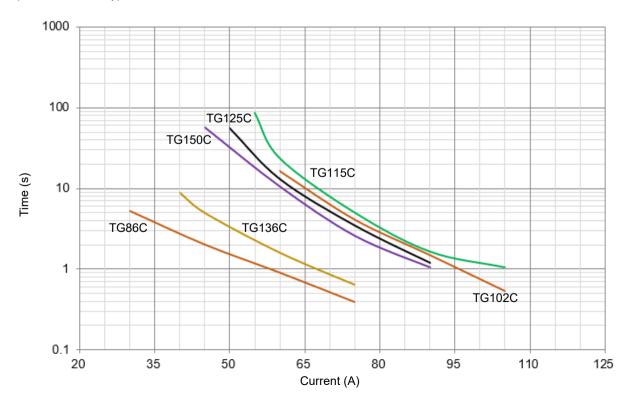
Temp.-Time Curve

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 °C (For reference only).

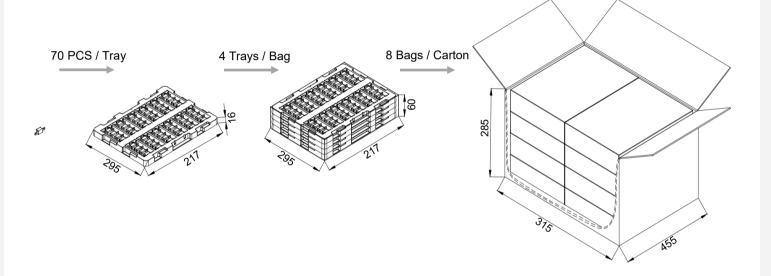




TGxxxC Series

Packaging Information

| Item | Pearl cotton 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) | | | 16 ± 10% |





TGxxxC Series

Glossary

| Olossa | |
|-------------------------|---|
| Item | 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. |
| I _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. |



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 ≤ 70% RH, avoid direct sunlight and shall use them up within 1 year after receiving the goods.

TGxxxC Series

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 $T_{\rm m}$ 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.

TGxxxC Series

| | 230 221 205 | 0 | 0 | | | 0 | | | | | |
|---|-------------------|-------------------------|-------------------|---------------------------------------|----------------------------|-----------------|---------------------|---------------------------------------|----------------------------|-------------|-------|
| ပ္ | 200 187 | TGH187-HVS^ | O ASL187A-LSF^ | © RSK187A-KSS^ | RVH187-HSF^ | OARL187-LRA | | | RQF187-FQS^ | | |
| (T,) | 160 150 | TGH150-HVS [^] | ASL150A-LSF^ | RSK150A-KSS^ | RVH150-HSF^ | ARL150-LRA^ | RPK150-HRZ^ | TG150C-HQZ^ | RQF150-FQS^ | TG150C-JPZ^ | |
| mp. | 145 139 | 0 | 0 | | | | RPK136-HRZ^ | | RQF136-FQS^ | | |
| ng Te | 136 135 133 | TGH136-HVS^ | ASL136A-LSF^ | RSK136A-KSS [^] | RVH136-HSF [^] | ARL136-LRA^ | RPK136-HRZ^ | TG136C-HQZ^ | RQF136-FQS^ | TG136C-JPZ^ | Model |
| tioni | 130 125 | TGH130-HVS^ | ASL125A-LSF^ | RSK125A-KSS^ | RVH130-HSF^ RVH125-HSF^ | ARL125-LRA^ | O RPK125-HRZ^ | TG125C-HQZ^ | RQF130-FQS^ RQF125-FQS^ | TG125C-JPZ^ | del |
| Rated Functioning Temp. (T,) °C | 123 120 | 0 | O O | © | 0 | O | 0 | • • • • • • • • • • • • • • • • • • • | O | 0 | |
| ated | 115 105 | TGH115-HVS^ | ASL115A-LSF^ | RSK115A-KSS^ | RVH115-HSF [^] | ARL115-LRA^ | RPK115-HRZ^ | TG115C-HQZ^ | RQF115-FQS^ | TG115C-JPZ^ | |
| œ | 102 97 | TGH102-HVS^ | ASL102A-LSF^ | RSK102A-KSS [^] | RVH102-HSF^ | ARL102-LRA^ | RPK102-HRZ^ | TG102C-HQZ^ | RQF102-FQS^ | TG102C-JPZ^ | |
| | 93 86 | 0 | 0 | | | O ARL86-LRA^ | | TG86C-HQZ^ | CRQF86-FQS^ | | |
| | 76 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | L. |
| Rated C U _r (VI | DC)^ | 15 850 | 30 | 25 | 15 | 30 | 15 00 | 15 4 | 10 | 20 400 | |
| Rated V <i>U</i> _r (V) Rated V | | 0 | | · · · · · · · · · · · · · · · · · · · | | | 0 | |) | 0 | |
| Prod Struc | duct cture | 0 | | | | | | 0 | 0 | 0 | |
| | Ondetare | | न | | | | ЦЦ | | | | |
| | | | Н | ΗН | H H | | | | Y | 0 | |

| Ur (VDC)^ Rated Voltage Ur (VAC)* Rated Voltage Product Structure | | | | | | | | | | | | | |
|--|--|-------------|------------|------------|-------------|---------|---------|---------|-------------|--------|--------|--------|--------|
| | 60 | | 0 | 0 | 690 | | 00 | 0 | | | | | |
| Rated Cur | rrent C)^ | | | 400 | | 200 | | | 180 | | 16 12 | | |
| I r (A) | 86 76 I _r (A) ated Current | 20 | 15 | 10 | 15 | 15 | 10 | 5 | 60 | 20 | 15 | 10 | 25 |
| | | 0 | TG86C-HSZ* | RPF86-FPF^ | | | | | | | | | |
| | 93 | 0 | 0 | 0 | | | | | | | | | |
| ated | 97 | 0 | | | | | | | | | | | |
| | 102 | TG102C-JSZ* | | 0 | | | | | ALP102-PLZ^ | QD102^ | PD102^ | TD102^ | SD102^ |
| | 105 | 0 | | | | | | | | | | | |
| _ 0 | 115 | TG115C-JSZ* | | | ALP115-HLZ^ | | | | | QD115^ | PD115^ | TD115^ | SD115^ |
| ₫ | 120 | 0 | | | | | | | | | | | |
| 5 | 125 123 | TG125C-JSZ* | | | | HN125^* | HP125^* | HS125^* | ALP125-PLZ^ | QD125^ | PD125^ | TD125^ | SD125^ |
| <u>ō</u> | 130 | 0 | | | | 0 | 0 | 0 | 0 | QD130^ | PD130^ | TD130^ | SD130^ |
| <u>=</u> | 133 | 0 | | | | | | | | 0 | 0 | 0 | 0 |
| ס | 135 | 0 | | | | | | | | | | | |
| <u>e</u> | 136 | TG136C-JSZ* | | | | HN136^* | HP136^* | HS136^* | | QD136^ | PD136^ | TD136^ | SD136^ |
| d L | 139 | 0 | | | | | | | | | | | |
| - | 145 | 0 | | | | | | | | 0 | | | |
| <u></u> | 150 | TG150C-JSZ* | | | | HN150^* | HP150^* | HS150^* | | QD150^ | PD150^ | TD150^ | SD150^ |
| ပ္ | 187 160 | 0 | | | | | | | | | | | |
| | 200 | 0 | | | | | | | | | | | |
| | 205 | 0 | | | | | | | | | | | |
| | 221 | 0 | | | | | | | | | | | |
| | 230 | 0 | | | | | | | | | | | |

TGxxxC Series

| Q136^* Q115^* Q115^* | Q136* Q115* | Q136* Q115* | O O O O O O O O O O O O O O O O O O O | O O O O O O O O O O O O O O O O O O O | O O O O O O O O O O O O O O O O O O O | TB136-UHZ^ TB130-UHZ^ | TB136-UJZ* TB125-UJZ* | 0 0 0 0 0 0 TS136-RHZ^ | TS136-RJZ* | S150^ S136^ | C T150^ C T136^ C C C C C C C C C C C C C C C C C C C | ADN230B-NEZ | Model |
|------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|--|-----------------------------------|---------------------------------------|--|---------------------------------------|--|---|-------------|-----------|
| Q136^* Q125^* Q115^* | Q136* Q115* | Q136* Q115* | P125^* | O O O O O O O O O O O O O O O O O O O | O O O O O O O O O O O O O O O O O O O | TB136-UHZ^ TB130-UHZ^ TB125-UHZ^ | TB130-UJZ* | C TS136-RHZ^ | 0 0 0 0 0 TS136-RJZ* | S150^ S136^ O | C T150^ C T136^ C C C C C C C C C C C C C C C C C C C | | Mode |
| Q125^* Q115^* | Q136* Q1315* | Q136* Q1315* | P136^* P125^* | O O O O O O O O O O O O O O O O O O O | P136* | TB136-UHZ^ TB130-UHZ^ TB125-UHZ^ | TB136-UJZ* | C TS136-RHZ^ | 0 0 0 0 TS136-RJZ* | S150^ S136^ O | T150^ T136^ O | | Mode |
| Q125^* Q115^* | Q136* Q136* Q136* Q136* | Q136* Q136* Q136* Q136* | P136^* P125^* | P136* | P136* | TB136-UHZ^ TB130-UHZ^ TB125-UHZ^ | TB136-UJZ* | C TS136-RHZ^ | 0 0 0 TS136-RJZ* | \$150^ \$150^ \$136^ \$ | CT150^ CT136^ CT136^ | | Mode |
| Q136^* Q125^* Q115^* | Q136* Q136* Q136* Q136* | Q136* Q136* Q136* Q136* | P136^* P125^* O | P136* | P136* | TB136-UHZ^ TB130-UHZ^ TB125-UHZ^ | TB136-UJZ* | C TS136-RHZ^ | C TS136-RJZ* | \$150^ \$150^ \$136^ \$\text{\$\circ}\$ | T150^ T136^ T136^ | | Mode |
| Q136^* Q125^* Q115^* | Q136* Q136* Q136* Q136* | Q136* Q136* Q136* Q136* | P136^* P125^* O | P136* O O O O O O O O O O O O O O O O O O | P136* O O O O O O O O O O O O O O O O O O | TB136-UHZ^ TB130-UHZ^ TB125-UHZ^ | TB130-UJZ* | **Comparison of the comparison | ○ ○ TS136-RJZ* ○ | \$150^ | T150^ | | Mode |
| Q136^* Q125^* Q115^* | Q136* Q136* Q136* Q115* | Q136* Q136* Q136* Q115* | P136^* P125^* O | P136* | P136* | TB136-UHZ^ TB130-UHZ^ TB125-UHZ^ | TB136-UJZ* | CTS136-RHZ^ | C TS136-RJZ* | S136^ • | 0 T136^ | | Mode |
| Q136^* Q125^* Q115^* | Q136* O Q115* | Q136* O Q115* | P136^* P125^* O | P136* O O O | P136* O O O | TB136-UHZ^ TB130-UHZ^ TB125-UHZ^ | TB136-UJZ* TB130-UJZ* | ○ TS136-RHZ^ ○ ○ | OTS136-RJZ* | S136^ | O T136^ | | Mode |
| Q136^* | Q136* | Q136* | P136^* | P136* | P136* | TB136-UHZ^ TB130-UHZ^ TB125-UHZ^ | TB136-UJZ* TB130-UJZ* | TS136-RHZ^ | TS136-RJZ* | \$136^ | T136^ | | Mode |
| Q125^* Q115^* | 0 0 0 0 0 0 Q115* | 0 0 0 0 0 0 Q115* | P125^* | | | TB130-UHZ^ TB125-UHZ^ | O TB130-UJZ* | | | | | | Mode |
| Q125^* Q115^* | 0 0 0 0 Q115* | O O O O O O O O O O O O O O O O O O O | P125^* | | | TB130-UHZ^ TB125-UHZ^ | O TB130-UJZ* | | | | | | Mode |
| Q125^* O Q115^* | O O O O O O O O O O O O O O O O O O O | O O Q115* | P125^* | | | TB130-UHZ^ TB125-UHZ^ | TB130-UJZ* | | | | | | اق |
| Q125^* O Q115^* | O O Q115* | O O Q115* | P125^* | | | TB125-UHZ^ | | | | | | | |
| O Q115^* | Q115* | Q115* | | | | | TB125-UJZ* | TO LOC DILIZA | TC125 D 17* | | | | 9 |
| Q115^* | Q115* | Q115* | | | | | | TS125-RHZ [^] | | | | | |
| Q115^* | Q115* | Q115* | | | | | | | | | | | |
| | | | P115^* | | | | | | | | | | |
| | | | | P115* | P115* | TB115-UHZ [^] | TB115-UJZ* | TS115-RHZ [^] | TS115-RJZ* | S115^ | T115^ | | |
| | | | | | | | | | | | | | |
| Q102^* | | | P102^* | P102* | P102* | TB102-UHZ [^] | TB102-UJZ* | TS102-RHZ [^] | TS102-RJZ* | S102 [^] | T102^ | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | \mapsto |
| | 25 | | L | 20 | | 20 | 00 | 10 | 0 | 10 | 16 | 50 | |
| | | 12 | 20 | | | 100 | 0 | 100 | · · · · · · · · · · · · · · · · · · · | 10 | 00 | 60 | |
| 400 | 300 | 250 | 400 | 300 | 250 | 0 | 125 | 0 | 125 | | | 0 | |
| | | | | | | | · · · · · · · · · · · · · · · · · · · | | • | | | | |
| | | | | | | | Radial Shap | | | | | | |

| Rated Voltage Ur (VAC)* Rated Voltage Product Structure | | | | | | | | | | _(| | > - | | | | | | | | | | | | |
|--|------|----|-------|--------------|-----|------|------|-----|------|-------|-------|--------------------|-----|------------------|-------|--------|-------|-------|------|-----|--------|--------------|-------------|------|
| Jr (VAC)* | 25 | 0 | 0 | 250 | | | 0 | | | 250 | | <u> </u> | | 2 | 50 | 0 | 2 | 50 | 125 | | o | | 250 | |
| Rated Current Ur (VDC)^ | | 60 | | | | | | | | | | | | | | | | | | | | | | |
| / r (A) | 110 | 15 | | 1 | 0 | 9 | 8.5 | 8 | 6 | | 5 | | 4 | , | 3 | 2.5 | 2 | | 1 | 4 | | 3 | 2 | 1 |
| 7 | | | | U18^* | | | | | C18^ | | | | | | | 0.187 | | | | | F18^ | X18^* X0* | K18/** | F18* |
| 9: | | | | 0 | | | | | C19A | | | | | | | O V18^ | | | | | C E19A | O V10/* | K18^* | C10* |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10. | | ۸* | | U1^* | | | | | | | | | | | | | | | | | F1^ | X1^* | K1^* | F1* |
| 10 | 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 11: | 5 R2 | ۸* | | U2^* | | | | C2^ | | | | V2^ | | SF2 [^] | | | | | | | F2^ | X2^* | K2^* | F2* |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | 0 | | | | | | | | | | | | | 0 | | | | | 0 | 0 | 0 |
| 12 | - | | | U4^* U3^* | | | | | | | | V4^ | | SF4^ | | | H3^* | | | | F4^ | X4* X3^* | K4* K3^* | F4* |
| 13 13 | | | | 0 | | | | | | | | V8^ | | SF8^ | | | | | | | F8^ | X8* | K8* | F8* |
| <u>13</u> | - | | | U5^* | | | | | | | | 0 | | 0 | | | | | | | - | X5* | K5* | 0 |
| 13 | - | | | | | | | | | | | | X9^ | | | | | | | K9^ | | X9* | K9* | |
| 18 16 15 14 13 13 13 13 12 12 12 12 11 10 10 10 10 10 10 10 10 10 10 10 10 | 9 | C | CR13^ | | | M13^ | C13^ | | | | SF13^ | V13^ | | | | | | | | | F13^ | | | F13* |
| . 14 | 5 R6 | ۸* | | U6^* | C6^ | | | | | | | | X6^ | | | | | | | K6^ | F6^ | X6* | K6* | F6* |
| 15 | | | | U7^* | | | | | | 0 | | | | | | | 0 | 0 | | | | X7* | K7* | F7* |
| 16 | | | 0 | U16^* | 0 | 0 | 0 | 0 | 0 | C16^* | 0 | 0 | | 0 | 0 | 0 | H16^* | V16^* | 0 | 0 | 0 | X16^* | K16^* | F16* |
| 20 | - | | | | | | | | | | | | | | | | | | | | | X17^* | K17^* | |
| 20: | | | | U32^* | | | | | | C32^* | | | | | B32^* | | H32^* | V32^* | V32* | | | X32* | K32* | |
| 22 | - | | | U31^* | | | | | | C31^* | | | | | B31^* | | H31^* | V31^* | V31* | | | X31* | K31* | |
| 23 | 0 | | | | | | | | | | | | | | | | | | | | | | | |

| | 4 | | | | | | | | | | | | | | | 4 | 1 |
|--|------|--------|--------|------|-------|-------|--------------|-------|-------|-------|-------|-----------|--------------|--------------|--------------|--------------|---|
| | 230 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ADN230B-NDZ^ | ADN230B-PDZ^ | 0 | ADN230B-QBZ^ | ^ |
| | 221 | XG31* | KG31* | | | C31* | | B31* | | H31* | | | 0 | | ADN205B-NDZ^ | | |
| | 205 | XG32* | KG32* | | | C33* | | B32* | | H32* | | | 0 | | | | |
| | 200 | 0 | | | | | | | | | | | 0 | | | | |
| | 187 | 0 | | | | | | | | | | | 0 | | | | |
| | 160 | XG16* | KG16* | | | | B16* | | | | | | 0 | | | | |
| | 150 | XG7* | KG7* | C7^ | C7* | | B7^* | | H7^* | | V7^* | | 0 | | | | |
| | 145 | XG6* | KG6* | C6^ | C6* | | B6^* | | H6^* | | V6^* | | 0 | | | | |
| • | 139 | 0 | | C13^ | C13* | | B13^* | | H13^* | | V13^* | | 0 | | | | |
| | 136 | XG9* | KG9* | C9^ | C9* | | B9^* | | H9^* | | V9^* | | 0 | | | | |
| | 135 | XG5* | KG5* | C5^ | C5* | | B5^* | | H5^* | | V5^* | | 0 | | | | |
| | 133 | XG8* | KG8* | C8^ | C8* | | B8^* | | H8^* | | V8^* | | 0 | | | | |
| | 130 | XG4* | KG4* | C4^ | C4* | | B4^* | | H4^* | | V4^* | | 0 | | | | |
| | 125 | XG3^* | KG3^* | C3^ | C3* | | B3^* | | | | V3^* | | 0 | | | | |
| ed Function | 123 | 0 | | | | | | | | | | | 0 | | | | |
| | 120 | 0 | | | | | | | | | | | | | | | |
| | 115 | XG2^* | KG2^* | C2^ | C2* | | B2^* | | H2^* | | V2^* | | 0 | | | | |
| | 105 | 0 | | | | | | | | | | | 0 | | | | |
| | 102 | XG1^* | KG1^* | | C1^* | C1* | B1^* | B1* | H1^* | H1* | V1^* | V1* | 0 | | | | |
| | 97 | 0 | | | | C21^* | | B21^* | | H21^* | | V21^* | 0 | | | | |
| | 93 | 0 | | | | | | | | | | | 0 | | | | |
| | 86 | XG18^* | KG18^* | | C18^* | C18* | B18^* | B18* | H18^* | H18* | V18^* | V18* | 0 | | | | |
| 76 | XG0* | KG0* | 0 | C0* | 0 | B0^* | B0* | H0^* | H0* | V0^* | V0* | 0 | 0 | 0 | 0 | _ | |
| r (A) | | 3 | 2 | 7 | | 5 | 3 | | | 2 | | 1 | 50 | 55 | 50 | 80 | |
| Rated Current Ur (VDC)^ Rated Voltage | | 6 | 0 | | | | | 50 | | | | | 49 | 4 | 18 | 24 | |
| | | 2 | 50 | | 250 | 125 | 250 | 125 | 250 | 125 | 250 | 125 | | | | | |
| Product Structure | | | | | | C | → ः—(| | D—~⊏ | | | | | | | | |
| | | Radial | Ц | | | | | | | | | Axial Sha | | | | | |