

α Therm



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.

Kontakt:

- Tel.: [+49] 6202 / 575688 - 0
- E-Mail: sales@alpha-therm.de

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.

Alpha Therm GmbH
Gewerbering 7
68723 Plankstadt
Germany

Tel: +49 (0) 6202 / 575688 - 0 Fax: -10
E-Mail: sales@alpha-therm.de
Web: www.alpha-therm.com

DC-ATCO

Direct Current Thermal-Link (Alloy Type)

TGxxxC Series

Description

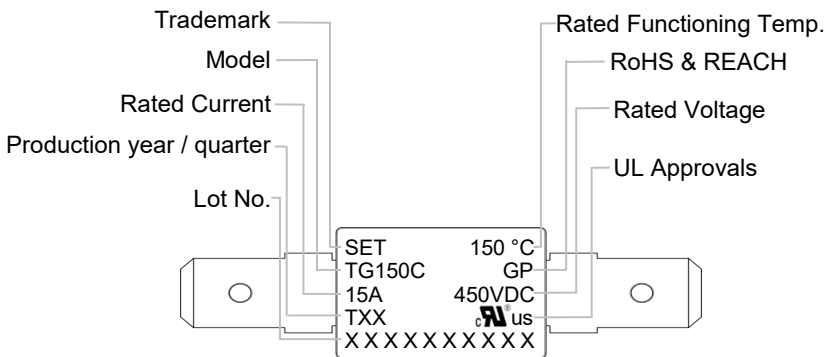
The Direct Current Thermal-Link Alloy Type (DC-ATCO) is a thermal-link that utilizes low melting point alloys, known as the thermal element, which fuse when heated to a specific fusing temperature. This allows for controlled circuit disconnection. The DC-ATCO is composed of various components, including electrode leads, a case, the low melting point alloys (thermal element), flux resin 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.

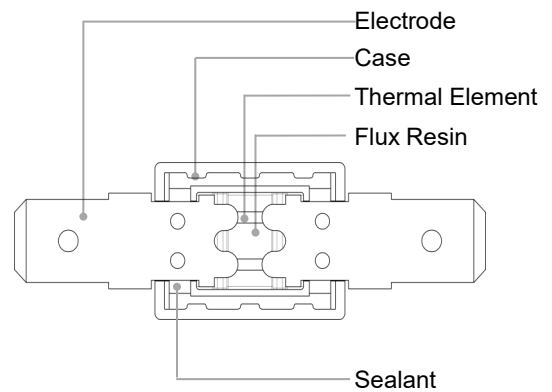
The SETsafe | SETfuse Direct Current Thermal-Link (Alloy Type) is available in axial and radial shapes, with a rated functioning temperature ranging from 86 °C to 150 °C, rated current: 15 A, 20 A, rated voltage: 450 VDC, 400 VDC, 600 VAC. Additionally, it holds UL and cUL Approvals, and is compliant with RoHS and REACH regulations.



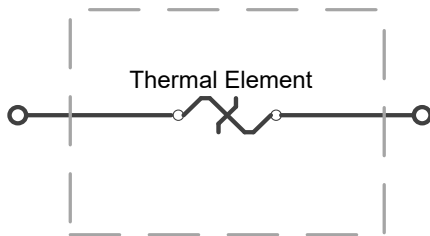
Marking



Structure Diagram



Product Schematic



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

Agency Information

Agency Symbol	Standards	The File No. and certification No. obtained by SETsafe SETfuse
	UL60691	E214712
	CAN-CSA-E60691	E214712

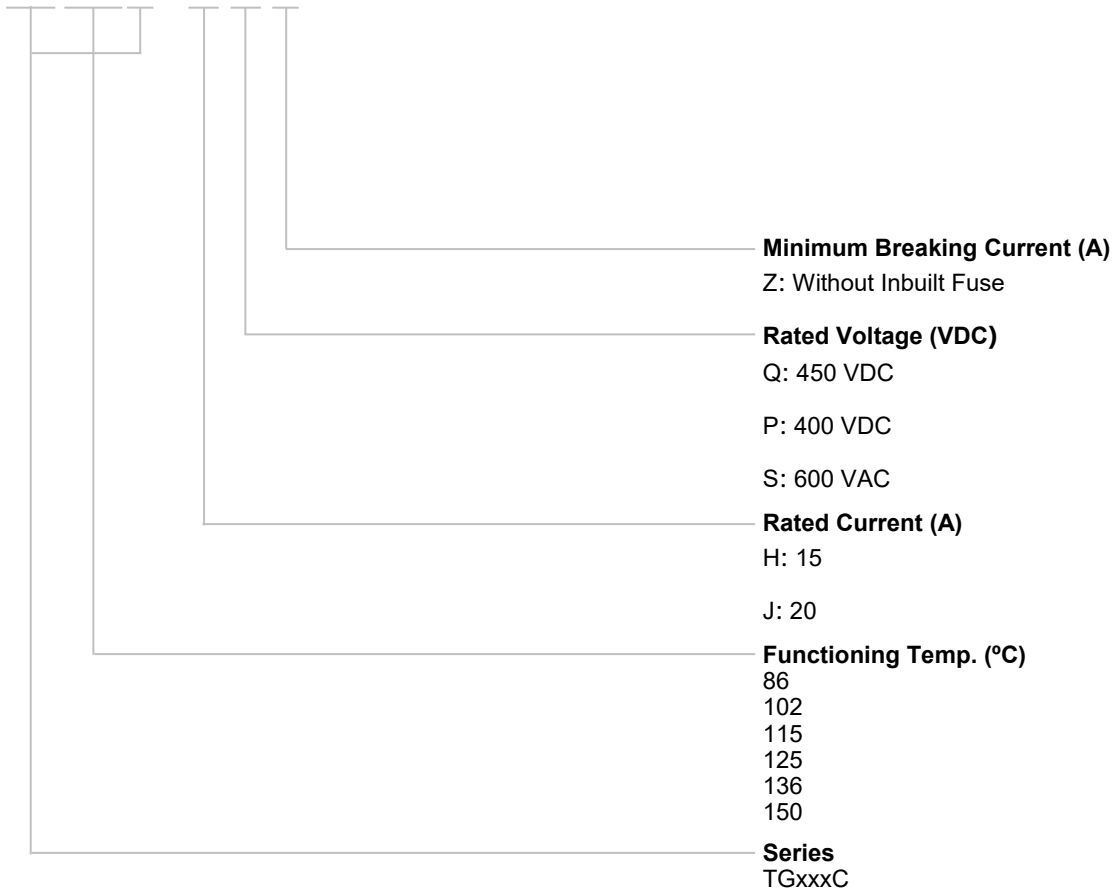
DC-ATCO

Direct Current Thermal-Link (Alloy Type)

TGxxxC Series

Part Number System

TG150C - H Q Z



Reminder:

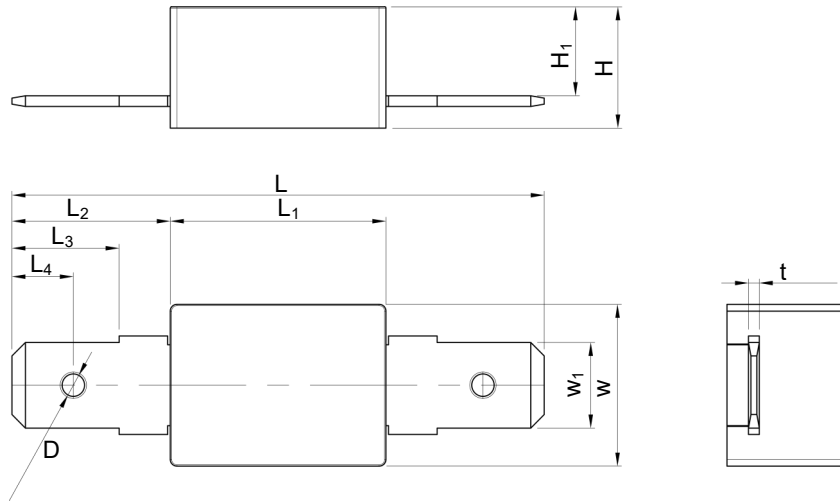
Part numbering system in the datasheet is only for selecting correct parameter and product features. Before placing order, please contact us for specifications and use the part number and product code in the specifications to place order to ensure the part is correct. Product code is the unique identification.

DC-ATCO

Direct Current Thermal-Link (Alloy Type)

TGxxxC Series

Dimensions (Unit: 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 ^{+0.5} _{-0.1}	6.0 ^{+1.0} _{-0.0}	0.80 ± 0.05	1.65 ± 0.20

Specifications

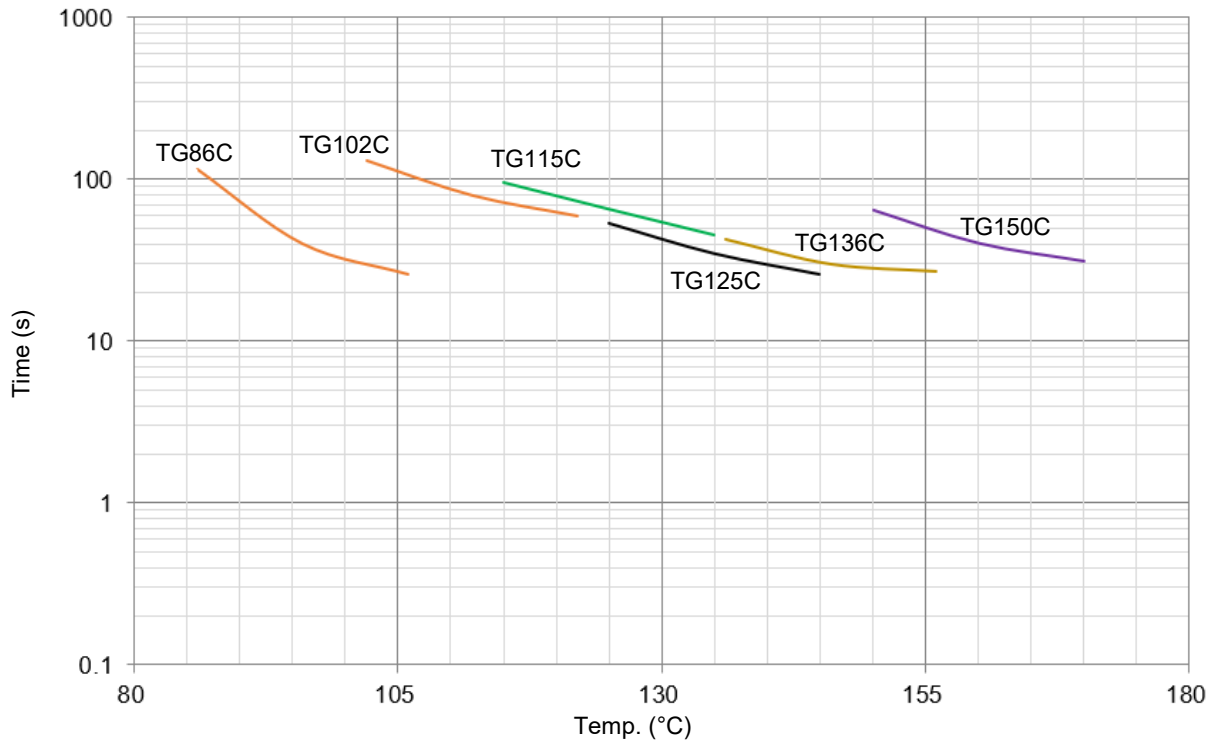
Rated Functioning Temp. (T _f) °C	Model	I _r	U _r	Rated Functioning Temp.	T _h	T _m	UL [®]	cUL [®]	RoHS REACH
		(A)	(V)	(°C)	(°C)	(°C)			
150	TG150C	15	DC 450	146 ± 3	100	250	●	●	●
		20	DC 400				●	●	●
		20	AC 600				●	●	●
136	TG136C	15	DC 450	131 ± 3	100	250	●	●	●
		20	DC 400				●	●	●
		20	AC 600				●	●	●
125	TG125C	15	DC 450	122 ± 3	85	250	●	●	●
		20	DC 400				●	●	●
		20	AC 600				●	●	●
115	TG115C	15	DC 450	112 ± 3	72	250	●	●	●
		20	DC 400		70		●	●	●
		20	AC 600		●		●	●	
102	TG102C	15	DC 450	99 ⁺⁵ ₋₃	65	250	●	●	●
		20	DC 400		62		●	●	●
		20	AC 600		●		●	●	
86	TG86C	15	DC 450	81 ± 3	43	250	●	●	●
		15	AC 600				●	●	●

Note:

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

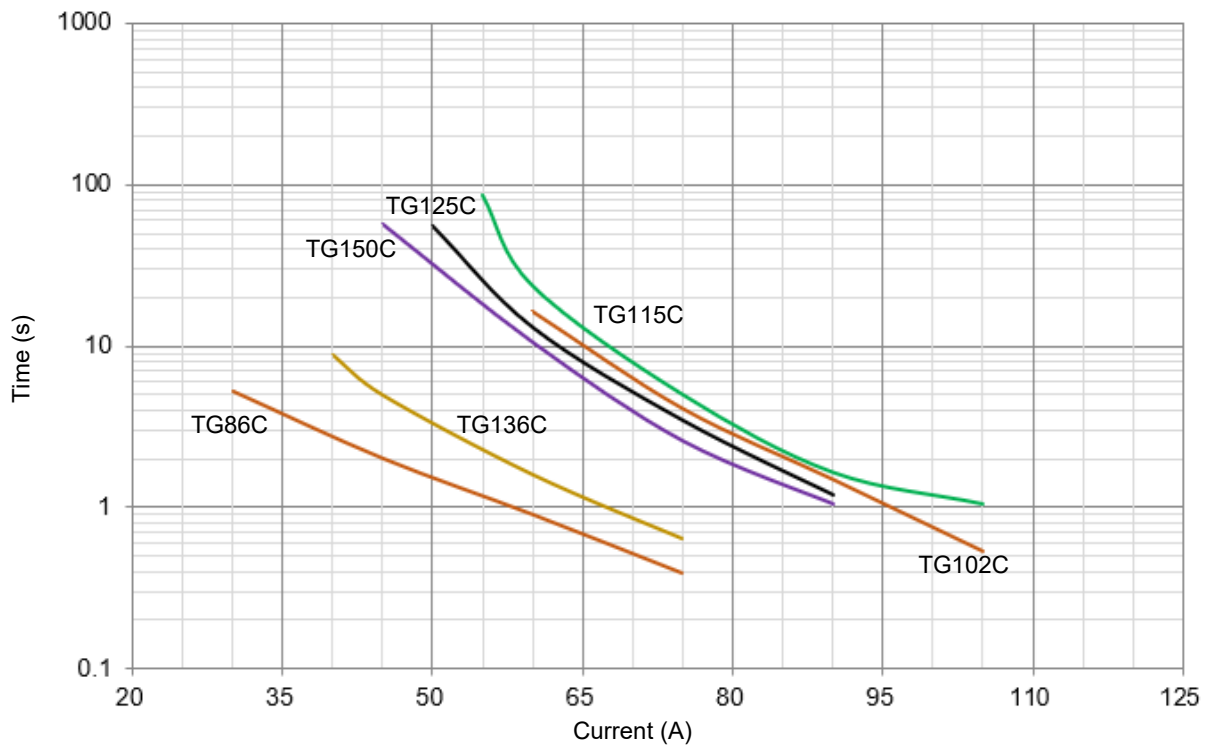
Temp.-Time Curve

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



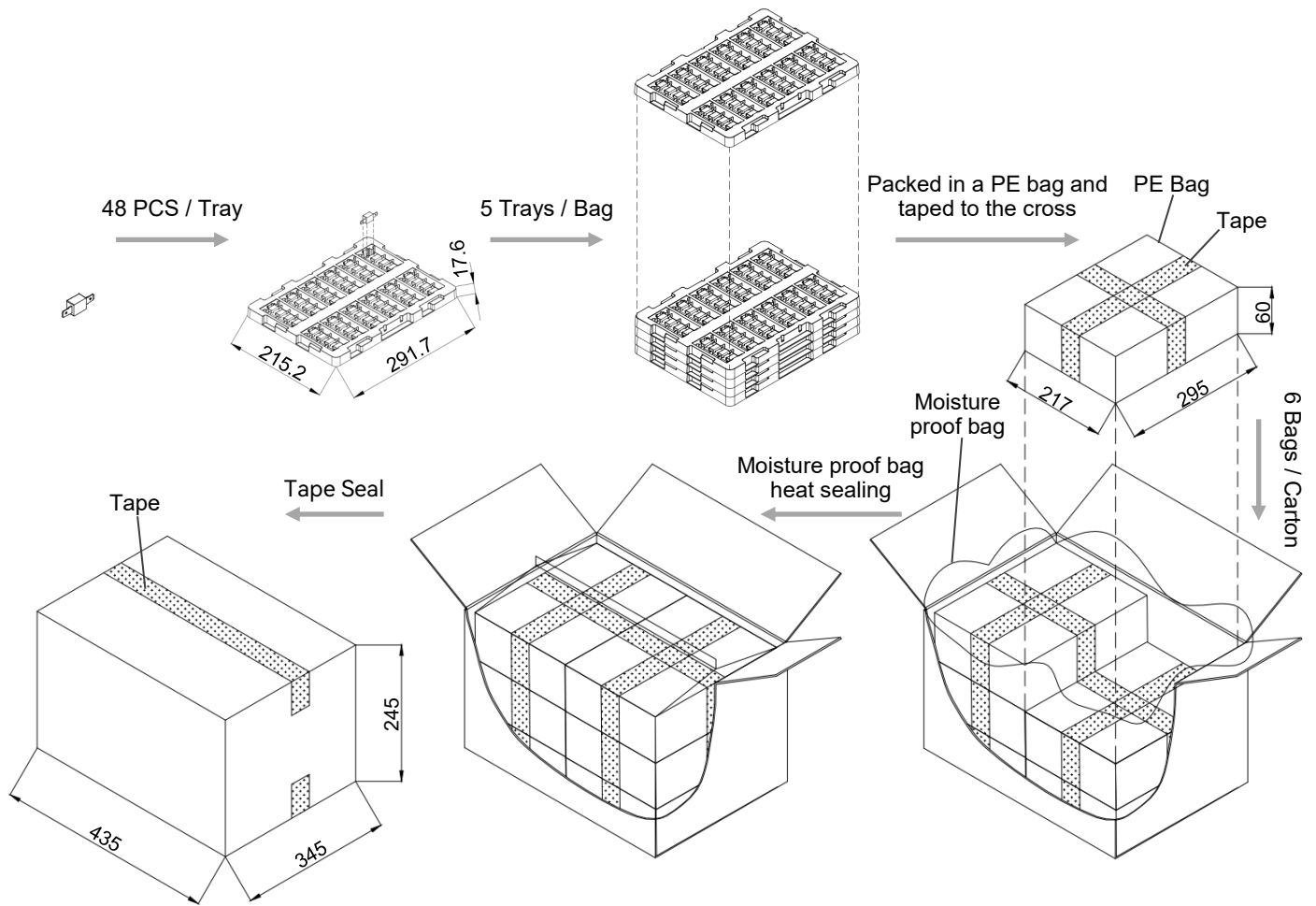
Current-Time Curve

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).



Packaging Information

Item	Pearl cotton tray	PE Bag	Carton
Dimensions (mm)	291.7 x 215.2 x 17.6	295 x 217 x 60	435 x 345 x 245
Quantity (PCS)	48	240	1440
Gross Weight (kg)			11 ± 10%



Glossary

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.



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. 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.

Installation position of mechanical performance requirements






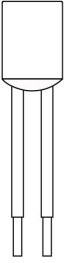



1. Ensure that the lead wire is long enough, and avoid actions such as press, tensile or twist.
2. The seal or body of DC-ATCO must not be damaged, burned or over heated.

Mechanical Connection

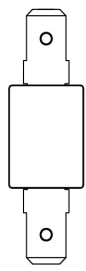
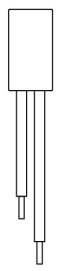



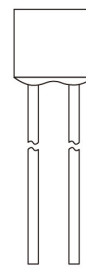
Riveting

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.

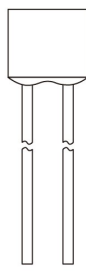
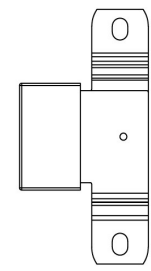
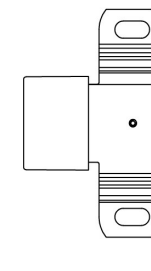
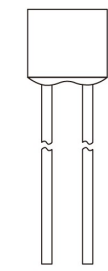
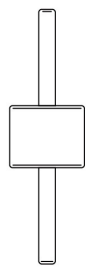
Direct Current Thermal-Link Alloy Type (DC-ATCO) Features & Model List Overview

Rated Functioning Temp. (T_f) °C	Model								
	TGH187-HVS [^]	ASL187A-LSF [^]	RSK187A-KSS [^]	RVH187-HSF [^]	ARL187-LRA [^]			RQF187-FQS [^]	
230	○	○	○	○	○	○	○	○	○
221	○	○	○	○	○	○	○	○	○
205	○	○	○	○	○	○	○	○	○
200	○	○	○	○	○	○	○	○	○
187	TGH187-HVS [^]	ASL187A-LSF [^]	RSK187A-KSS [^]	RVH187-HSF [^]	ARL187-LRA [^]	○	○	RQF187-FQS [^]	○
160	○	○	○	○	○	○	○	○	○
150	TGH150-HVS [^]	ASL150A-LSF [^]	RSK150A-KSS [^]	RVH150-HSF [^]	ARL150-LRA [^]	RPK150-HRZ [^]	TG150C-HQZ [^]	RQF150-FQS [^]	TG150C-JPZ [^]
145	○	○	○	○	○	○	○	○	○
139	○	○	○	○	○	○	○	○	○
136	TGH136-HVS [^]	ASL136A-LSF [^]	RSK136A-KSS [^]	RVH136-HSF [^]	ARL136-LRA [^]	RPK136-HRZ [^]	TG136C-HQZ [^]	RQF136-FQS [^]	TG136C-JPZ [^]
135	○	○	○	○	○	○	○	○	○
133	○	○	○	○	○	○	○	○	○
130	TGH130-HVS [^]	○	○	RVH130-HSF [^]	○	○	○	RQF130-FQS [^]	○
125	TGH125-HVS [^]	ASL125A-LSF [^]	RSK125A-KSS [^]	RVH125-HSF [^]	ARL125-LRA [^]	RPK125-HRZ [^]	TG125C-HQZ [^]	RQF125-FQS [^]	TG125C-JPZ [^]
123	○	○	○	○	○	○	○	○	○
120	○	○	○	○	○	○	○	○	○
115	TGH115-HVS [^]	ASL115A-LSF [^]	RSK115A-KSS [^]	RVH115-HSF [^]	ARL115-LRA [^]	RPK115-HRZ [^]	TG115C-HQZ [^]	RQF115-FQS [^]	TG115C-JPZ [^]
105	○	○	○	○	○	○	○	○	○
102	TGH102-HVS [^]	ASL102A-LSF [^]	RSK102A-KSS [^]	RVH102-HSF [^]	ARL102-LRA [^]	RPK102-HRZ [^]	TG102C-HQZ [^]	RQF102-FQS [^]	TG102C-JPZ [^]
97	○	○	○	○	○	○	○	○	○
93	○	○	○	○	○	○	○	○	○
86	○	○	○	○	ARL86-LRA [^]	○	TG86C-HQZ [^]	RQF86-FQS [^]	○
76	○	○	○	○	○	○	○	○	○
I_f (A) Rated Current	15	30	25	15	30	15	15	10	20
U_f (VDC) [^] Rated Voltage	850		600		500		450		400
U_f (VAC) [*] Rated Voltage	○	○	○	○	○	○	○	○	○
Product Structure									
	Axial Shape	Radial Shape	Radial Shape	Radial Shape	Axial Shape	Radial Shape	Axial Shape	Radial Shape	Axial Shape

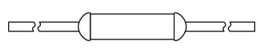
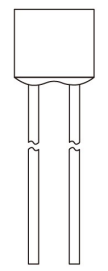
Direct Current Thermal-Link Alloy Type (DC-ATCO) Features & Model List Overview

Rated Functioning Temp. (T_r) °C	Model											
	TG150C-JSZ*				HN150^*	HP150^*	HS150^*		QD150^	PD150^	TD150^	SD150^
230	○	○	○	○	○	○	○	○	○	○	○	○
221	○	○	○	○	○	○	○	○	○	○	○	○
205	○	○	○	○	○	○	○	○	○	○	○	○
200	○	○	○	○	○	○	○	○	○	○	○	○
187	○	○	○	○	○	○	○	○	○	○	○	○
160	○	○	○	○	○	○	○	○	○	○	○	○
150	TG150C-JSZ*	○	○	○	HN150^*	HP150^*	HS150^*	○	QD150^	PD150^	TD150^	SD150^
145	○	○	○	○	○	○	○	○	○	○	○	○
139	○	○	○	○	○	○	○	○	○	○	○	○
136	TG136C-JSZ*	○	○	○	HN136^*	HP136^*	HS136^*	○	QD136^	PD136^	TD136^	SD136^
135	○	○	○	○	○	○	○	○	○	○	○	○
133	○	○	○	○	○	○	○	○	○	○	○	○
130	○	○	○	○	○	○	○	○	QD130^	PD130^	TD130^	SD130^
125	TG125C-JSZ*	○	○	○	HN125^*	HP125^*	HS125^*	ALP125-PLZ^	QD125^	PD125^	TD125^	SD125^
123	○	○	○	○	○	○	○	○	○	○	○	○
120	○	○	○	○	○	○	○	○	○	○	○	○
115	TG115C-JSZ*	○	○	ALP115-HLZ^	○	○	○	○	QD115^	PD115^	TD115^	SD115^
105	○	○	○	○	○	○	○	○	○	○	○	○
102	TG102C-JSZ*	○	○	○	○	○	○	ALP102-PLZ^	QD102^	PD102^	TD102^	SD102^
97	○	○	○	○	○	○	○	○	○	○	○	○
93	○	○	○	○	○	○	○	○	○	○	○	○
86	○	TG86C-HSZ*	RPF86-FPF^	○	○	○	○	○	○	○	○	○
76	○	○	○	○	○	○	○	○	○	○	○	○
I_r (A) Rated Current	20	15	10	15	15	10	5	60	20	15 16	10	25
U_r (VDC)^ Rated Voltage	○	400	200	180	125							
U_r (VAC)^* Rated Voltage	600	○	690	500	○							
Product Structure												
	Axial Shape	Radial Shape		Axial Shape		Radial Shape						

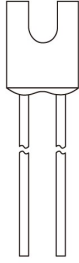

Direct Current Thermal-Link Alloy Type (DC-ATCO) Features & Model List Overview

Rated Functioning Temp. (T _r) °C	Model													
	Q136**	Q136*	Q136*	P136**	P136*	P136*	TB136-UHZ^	TB136-UJZ*	TS136-RHZ^	TS136-RJZ*	S136^	T136^	ADN230B-NEZ	
230	○	○	○	○	○	○	○	○	○	○	○	○	○	○
221	○	○	○	○	○	○	○	○	○	○	○	○	○	○
205	○	○	○	○	○	○	○	○	○	○	○	○	○	○
200	○	○	○	○	○	○	○	○	○	○	○	○	○	○
187	○	○	○	○	○	○	○	○	○	○	○	○	○	○
160	○	○	○	○	○	○	○	○	○	○	○	○	○	○
150	○	○	○	○	○	○	○	○	○	○	S150^	T150^	○	○
145	○	○	○	○	○	○	○	○	○	○	○	○	○	○
139	○	○	○	○	○	○	○	○	○	○	○	○	○	○
136	○	○	○	○	○	○	○	○	○	○	○	○	○	○
135	○	○	○	○	○	○	○	○	○	○	○	○	○	○
133	○	○	○	○	○	○	○	○	○	○	○	○	○	○
130	○	○	○	○	○	○	○	○	○	○	○	○	○	○
125	○	○	○	○	○	○	○	○	○	○	○	○	○	○
125	Q125**	○	○	P125**	○	○	TB125-UHZ^	TB125-UJZ*	TS125-RHZ^	TS125-RJZ*	○	○	○	○
123	○	○	○	○	○	○	○	○	○	○	○	○	○	○
120	○	○	○	○	○	○	○	○	○	○	○	○	○	○
115	Q115**	Q115*	Q115*	P115**	P115*	P115*	TB115-UHZ^	TB115-UJZ*	TS115-RHZ^	TS115-RJZ*	S115^	T115^	○	○
105	○	○	○	○	○	○	○	○	○	○	○	○	○	○
102	Q102**	○	○	P102**	P102*	P102*	TB102-UHZ^	TB102-UJZ*	TS102-RHZ^	TS102-RJZ*	S102^	T102^	○	○
97	○	○	○	○	○	○	○	○	○	○	○	○	○	○
93	○	○	○	○	○	○	○	○	○	○	○	○	○	○
86	○	○	○	○	○	○	○	○	○	○	○	○	○	○
76	○	○	○	○	○	○	○	○	○	○	○	○	○	○
I_r (A) Rated Current	25			20			200		100		10	15 16	50	
U_r (VDC)^ Rated Voltage	120						100	○	100	○	100	60		
U_r (VAC)* Rated Voltage	400	300	250	400	300	250	○	125	○	125	○	○		
Product Structure														
							Radial Shape						Axial Shape	

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Rated Functioning Temp. (T _r) °C	Model																				
	R31 ^{Λ*}	U31 ^{Λ*}						C31 ^{Λ*}					B31 ^{Λ*}	H31 ^{Λ*}	V31 ^{Λ*}	V31*		X31*	K31*		
230	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
221	R32 ^{Λ*}	U32 ^{Λ*}						C32 ^{Λ*}					B32 ^{Λ*}	H32 ^{Λ*}	V32 ^{Λ*}	V32*		X32*	K32*		
205	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
200	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
187	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	X17 ^{Λ*}	K17 ^{Λ*}		
160	R16 ^{Λ*}	U16 ^{Λ*}						C16 ^{Λ*}						H16 ^{Λ*}	V16 ^{Λ*}			X16 ^{Λ*}	K16 ^{Λ*}	F16*	
150	R7 ^{Λ*}	U7 ^{Λ*}																X7*	K7*	F7*	
145	R6 ^{Λ*}	U6 ^{Λ*}	C6 ^Λ								X6 ^Λ						K6 ^Λ	F6 ^Λ	X6*	K6*	F6*
139	○	CR13 ^Λ	○	M13 ^Λ	C13 ^Λ				SF13 ^Λ	V13 ^Λ								F13 ^Λ			F13*
136	○	○	○	○	○	○	○	○	○	○	X9 ^Λ						K9 ^Λ	○	X9*	K9*	○
135	R5 ^{Λ*}	U5 ^{Λ*}																○	X5*	K5*	○
133	○	○	○	○	○	○	○	○	○	V8 ^Λ	SF8 ^Λ							F8 ^Λ	X8*	K8*	F8*
130	R4 ^{Λ*}	U4 ^{Λ*}								V4 ^Λ	SF4 ^Λ							F4 ^Λ	X4*	K4*	F4*
125	R3 ^{Λ*}	U3 ^{Λ*}												H3 ^{Λ*}				○	X3 ^{Λ*}	K3 ^{Λ*}	F3*
123	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
120	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
115	R2 ^{Λ*}	U2 ^{Λ*}				C2 ^Λ				V2 ^Λ	SF2 ^Λ							F2 ^Λ	X2 ^{Λ*}	K2 ^{Λ*}	F2*
105	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
102	R1 ^{Λ*}	U1 ^{Λ*}																F1 ^Λ	X1 ^{Λ*}	K1 ^{Λ*}	F1*
97	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
93	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
86	R18 ^{Λ*}	U18 ^{Λ*}					C18 ^Λ						V18 ^Λ					F18 ^Λ	X18 ^{Λ*}	K18 ^{Λ*}	F18*
76	R0 ^{Λ*}	U0 ^{Λ*}																○	X0*	K0*	F0*
I_r (A) Rated Current		15	10	9	8.5	8	6	5	4	3	2.5	2	1	4	3	2	1				
U_r (VDC)^Λ Rated Voltage		60																			
U_r (VAC)[*] Rated Voltage		250	250				250			250		250	125		250						
Product Structure		 Axial Shape										 Radial Shape									

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Rated Functioning Temp. (T _r) °C	Model										Model				
	XG31*	KG31*			C31*		B31*		H31*		ADN230B-NDZ ^Δ	ADN230B-PDZ ^Δ		ADN230B-QBZ ^Δ	
230	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
221	XG31*	KG31*	○	○	C31*	○	B31*	○	H31*	○	○	○	ADN205B-NDZ ^Δ	○	
205	XG32*	KG32*	○	○	C33*	○	B32*	○	H32*	○	○	○	○	○	
200	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
187	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
160	XG16*	KG16*	○	○	○	B16*	○	○	○	○	○	○	○	○	
150	XG7*	KG7*	C7 ^Δ	C7*	○	B7 ^Δ	○	H7 ^Δ	○	V7 ^Δ	○	○	○	○	
145	XG6*	KG6*	C6 ^Δ	C6*	○	B6 ^Δ	○	H6 ^Δ	○	V6 ^Δ	○	○	○	○	
139	○	○	C13 ^Δ	C13*	○	B13 ^Δ	○	H13 ^Δ	○	V13 ^Δ	○	○	○	○	
136	XG9*	KG9*	C9 ^Δ	C9*	○	B9 ^Δ	○	H9 ^Δ	○	V9 ^Δ	○	○	○	○	
135	XG5*	KG5*	C5 ^Δ	C5*	○	B5 ^Δ	○	H5 ^Δ	○	V5 ^Δ	○	○	○	○	
133	XG8*	KG8*	C8 ^Δ	C8*	○	B8 ^Δ	○	H8 ^Δ	○	V8 ^Δ	○	○	○	○	
130	XG4*	KG4*	C4 ^Δ	C4*	○	B4 ^Δ	○	H4 ^Δ	○	V4 ^Δ	○	○	○	○	
125	XG3 ^Δ *	KG3 ^Δ *	C3 ^Δ	C3*	○	B3 ^Δ *	○	○	○	V3 ^Δ *	○	○	○	○	
123	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
120	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
115	XG2 ^Δ *	KG2 ^Δ *	C2 ^Δ	C2*	○	B2 ^Δ *	○	H2 ^Δ *	○	V2 ^Δ *	○	○	○	○	
105	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
102	XG1 ^Δ *	KG1 ^Δ *	○	C1 ^Δ *	C1*	B1 ^Δ *	B1*	H1 ^Δ *	H1*	V1 ^Δ *	V1*	○	○	○	
97	○	○	○	○	C21 ^Δ *	○	B21 ^Δ *	○	H21 ^Δ *	○	V21 ^Δ *	○	○	○	
93	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
86	XG18 ^Δ *	KG18 ^Δ *	○	C18 ^Δ *	C18*	B18 ^Δ *	B18*	H18 ^Δ *	H18*	V18 ^Δ *	V18*	○	○	○	
76	XG0*	KG0*	○	C0*	○	B0 ^Δ *	B0*	H0 ^Δ *	H0*	V0 ^Δ *	V0*	○	○	○	
I_r (A) Rated Current	3	2	7	5	3	2	1	50	55	50	80				
U_r (VDC)^Δ Rated Voltage	60		50								49	48	24		
U_r (VAC)[*] Rated Voltage	250		○	250	125	250	125	250	125	250	125	○			
Product Structure	 <p>Radial Shape</p>				 <p>Axial Shape</p>						