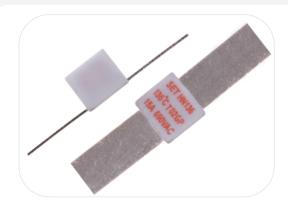


HN Series



Description

The Direct Current Thermal-Link Alloy Type (DC-ATCO) is defined as a non-resettable protective device functioning one time only. It is widely used in electrical equipment. ATCO is mainly consist of fusible alloy, flux resin, case, sealant and lead wires. Normally, fusible alloy is jointed to the two lead wires. Under abnormal conditions, when the temp, reaches to the fusing temp, of ATCO, the fusible alloy melts and quickly retracts to the two lead wire ends with the aid of the flux resin and disconnects the circuit completely.

SETsafe | SETfuse Direct Current Thermal-Link Alloy Type (DC-ATCO) HN series Rated Functioning Temp. from 125 °C to 145 °C, Rated Current: 15 A, safety certification Includes UL, cUL, TUV, PSE, CCC, and complies with RoHS and REACH.

Applications

- Surge Protective Devices
- Batteries
- Automobile Electronic

Customization

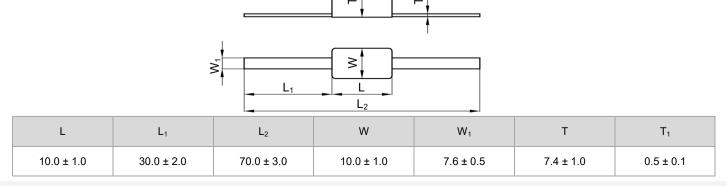
- Other Temp.
- The Length of Lead Wires
- Leads Forming Types

Marking

Axial (Color for reference only)



Remark: The first letter of the Date Code Year/quarter A stands for 2000, B stands for 2001, 01 stands for the first guarter, 02 stands for the second guarter, and so on.

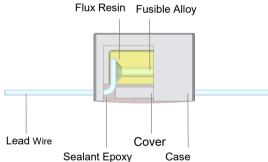


Features

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

Structure Diagrams

Axial



Dimensions (mm)

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HN Series

Specifications

	Model	Fusing Temp.	T _h (°C)	T _m	/r (A)	U _r	RU ® UL	c N ®	ک Tuv	PSE	کی ccc	RoHS REACH
145	HN145	140 ± 2	112	250	15	AC 690	•	•	•	•	•	•
136	HN136	131 + 3	106	250	15	AC 690	•	•	•	•	•	•
145 136 125				200		DC 200	•	•	•	0	•	•
125	HN125	121 ± 2	90	250	15	AC 690 DC 200	•	•	•	•	•	•
	136	145 HN145 136 HN136	Model (°C) 145 HN145 140 ± 2 136 HN136 131 ± 3	Model (°C) (°C) 145 HN145 140 ± 2 112 136 HN136 131 ± 3 106	Model (°C) (°C) (°C) 145 HN145 140 ± 2 112 250 136 HN136 131 ± 3 106 250	Model (°C) (°C) (°C) (A) 145 HN145 140 ± 2 112 250 15 136 HN136 131 ± 3 106 250 15	Model Model Image: Model	Model Husing remp. T_h T_m T_r D_r D_r Model (°C) (°C) (°C) (A) (V) UL (°C) (°C) (°C) (A) (V) UL (°C) (°C) (°C) (A) (V) UL (°C) 140 ± 2 112 250 15 AC 690 • (°C) (°C) 112 250 15 AC 690 • (°C) (°C) 112 250 15 AC 690 • (°C) (°C) 131 ± 3 106 250 15 AC 690 • (°C) (°C) 121 ± 2 90 250 15 AC 690 •	Model Fusing remp. I_h I_m I_r O_r	Model Husing remp. I_h I_m I_r O_r	Model Huming Termp. T_{h} T_{m} T_{r} O_{r} O_{r} I_{r} O_{r} I_{r} O_{r} I_{r} O_{r} I_{r} O_{r} I_{r} I_{r} O_{r} I_{r} I_{r} O_{r} I_{r} I_{r} O_{r} I_{r} </th <th>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</th>	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

Note:

1: "●"Means certificated, "○"Means non-certificated, RoHS & REACH Compliant .

2: " * "Customizable DC voltage.

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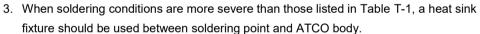
Agency Information

Institution	Standards	The File No. and certification No. obtained by SETsafe SETfuse
AT ®	UL 60691	E214712
c FN ®	CAN-CSA-E60691	E214712
\mathbf{A}	EN 60691	R50336499
	J60691	JET2121-32001-2030、JET2121-32001-2031
	GB 9816.1	2020980205000176

Soldering

Hand-Soldering

- 1. Soldering should be carried out according to Table T-1.
- 2. The thermal element of ATCO is fusible alloy with low melting point, which is jointed with ATCO lead wires. Improper soldering operation (too high soldering temp., too long soldering time, too short lead wire etc.) may transfer more heat to the thermal element and ATCO may open in advance.



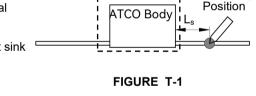
- 4. When soldering, please do not pull / push or twist ATCO body or lead wires.
- 5. After soldering, let it naturally cool for longer than 20 seconds. During cooling, never move the ATCO body or lead wires.

TABLE T-1 Hand-Soldering Time

Rated Functioning Temp. (<i>T</i> _f)		Max. Allowable Soldering Time for Different Lead Wire Length (Fig.T-1)												
	L _s	Time		L _s Tin			L _s	Tim	e	Temp.				
	Length	Tinned Copper Wire	CP Wire	Length	Tinned Copper Wire	CP Wire	Length	Tinned Copper Wire	CP Wire					
(°C)	(mm)	(s)	(s)	(mm)	(s)	(s)	(mm)	(s)	(s)	(°C)				
125 to 135	10	1 ^a	4	20	3	6	30	5	8	400				
136 to 145	10	3	6	20	5	8	30	5	8	400				

Note:

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



Soldering

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Wave Soldering

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

TABLE T-2 Wave Soldering Parameters Setting

Rated Functioning Temp.	W When		Preheating Lead Wire i g.T-1)	Temp. s Different	Preheating Time (t ₁)	Max. Wave Soldering	ave Time ering (t ₂) mp. (s)	Cooling Time (t ₃)			
(<i>T</i> _f)	L₅ Length	Preheating Temp.	L₅ Length	Preheating Temp.		Temp.					
(°C)	(mm)	(°C)	(mm)	(°C)	(s)	(°C)	(s)	(s) ≤ 10			
125 to 130				建议	义手工焊接						
131 to 145	20	80	30	90	< 60	≤ 260	≤ 3	≤ 10			
Tempore				ating_Temp.							
			+								

 t_1

Preheating Time

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t₂

Dwelling Time

t₃

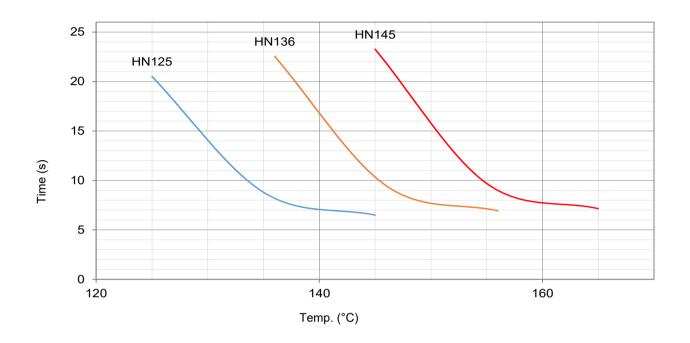
Cooling Time

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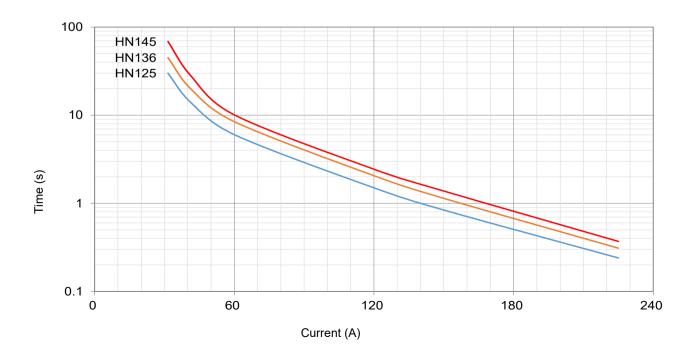
Product Temp.-Time Curve (Reference)

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



Product Current-Time Curve (Reference)

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





HN Series

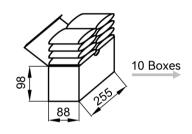
Packaging Information

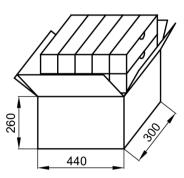
Bulk

Item	PE Bag	Вох	Carton
Dimensions (mm)	135 × 85	255 × 88 × 98	440 × 300 × 220
Quantity (PCS)	20	300	3000
Gross Weight (kg)	13.0 ± 10%		









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DC-ATCO Direct Current Thermal-Link (Alloy Type)	
Part Numbering System	
ATCO - HN136 - G N N A B - 001	
	Other Options
	Packing
	B Bulk
	T Taping
	Leads Forming
	A Straight

В

С

W

R

Κ

Ν

Т

Ρ

Ν

G

Μ

136

Series

ΗN

7

Straight Lead

Leads Bending

Color of Insulation Tube

White

Red

Black

None

Teflon

None

Lead Wire Type

Insulation Tube Material

Polyester

Rated Functioning Temp.

Series

ATCO Alloy Thermal-Link

Product Category

See Specifications

Flat Electrode Chamber

136 °C, See Specifications

Multi stranded tinned copper wire

Single Lead Bending

HN Series



HN Series

Glossary

Item	Description
	Thermal-Link
тсо	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.
	— (GB 9816.1)
	Alloy Thermal-Link
ATCO	Alloy Type Thermal-Link, Alloy is the thermal element. — (GB 9816.1)
Tf	Rated Functioning Temp. The temperature of the Alloy Thermal-Link which causes it to change the state of conductivity with a detection current up to 10 mA as the only load.
	— (GB 9816.1
	Tolerance: <i>T</i> _f °C (GB 9816.1, EN 60691, K60691). Tolerance: <i>T</i> _f ± 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.
	— (GB 9816.1
	Holding Temp.
T _h	The Maximum temperature at which a Alloy Thermal-Link will not change its state of conductivity when conducting rated
	current for 168 hours. — (GB 9816.1
	Maximum Temp. Limit
T _m	The temperature of the Alloy Thermal-Link stated by the manufacturer, up to which the mechanical and electrical properties
	of the Alloy Thermal-Link having changed its state of conductivity, will not be impaired for a given time. — (GB 9816.1
	Rated Current
<i>I</i> r	The current used to classify a Alloy Thermal-Link, which is the Maximum current that Alloy Thermal-Link allows to carry and is able to cut off the circuit safely.
	— (GB 9816.1
U _r	Rated Voltage The voltage used to classify a Alloy Thermal-Link, which is the Maximum voltage that Alloy Thermal-Link allows to carry and is able to cut off the circuit safely.
	— (GB 9816.1
	Nominal Discharge Current
I _n	Being able to withstand 15 peak currents of waveform 8/20 μs to test the product's durability of withstanding pulse current.
	— (UL 1449)
	Max. Discharge Current
I _{max}	Being able to withstand 1 peak current of waveform 8/20 µs to test max. pulse current that the product can withstand.
	— (UL 1449

HN Series



ATTENTION

Usage

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

Replace

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

Storage

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

Installation

Make Sure the Temp. of Installation Position.

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

Installation position of mechanical performance requirements.

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



HN Series

Mechanical Connection

Riveting

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

Crimping

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

Lead Wire Forming

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

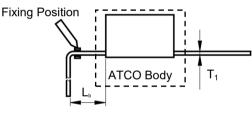


FIGURE T-2

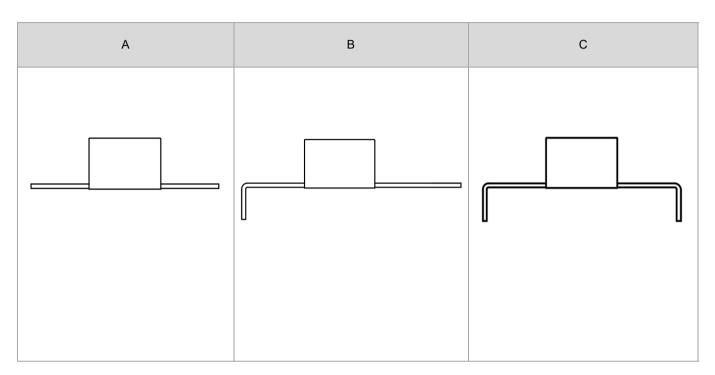
TABLE T-3 Distance between Body and Bending Point

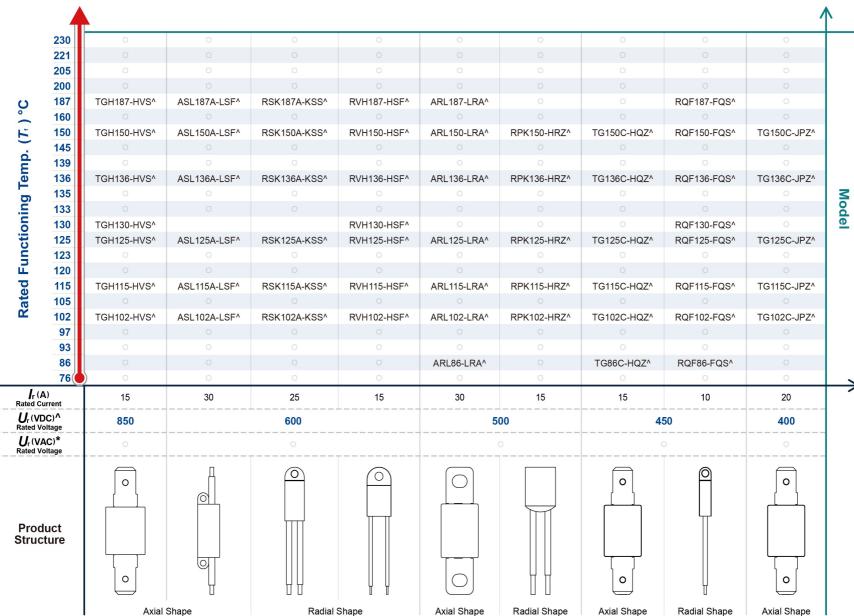
	T ₁	(mm)	< 0.25	0.25 - 0.5	> 0.5
Flat Electrode Chamber	L _b	(mm)	≥3	≥5	≥ 10

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Leads Forming Types The below leads forming is for reference, more leads forming can be customized. Axial





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

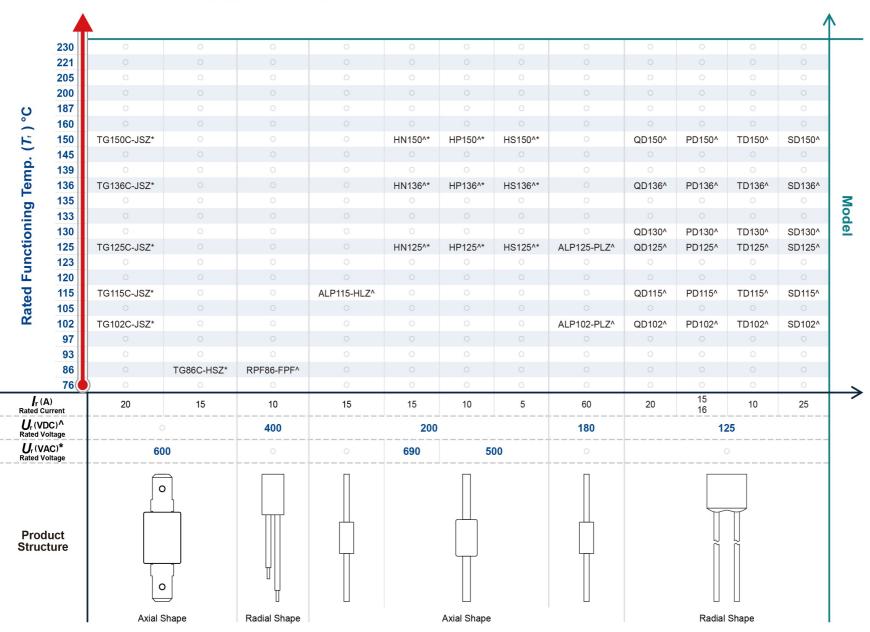


Direct Current Thermal-Link (Alloy Type) Õ ATC Ô

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DC

ATC

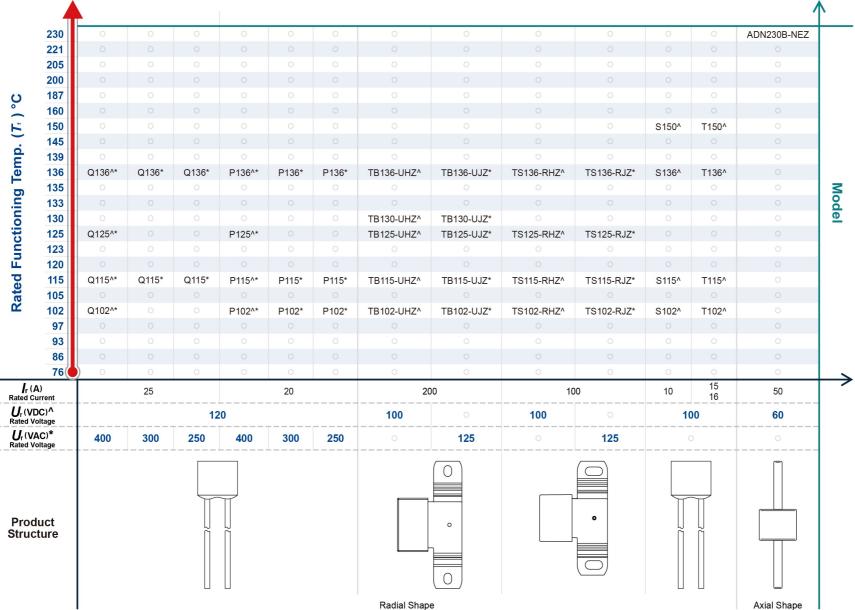
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ETsafe

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



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

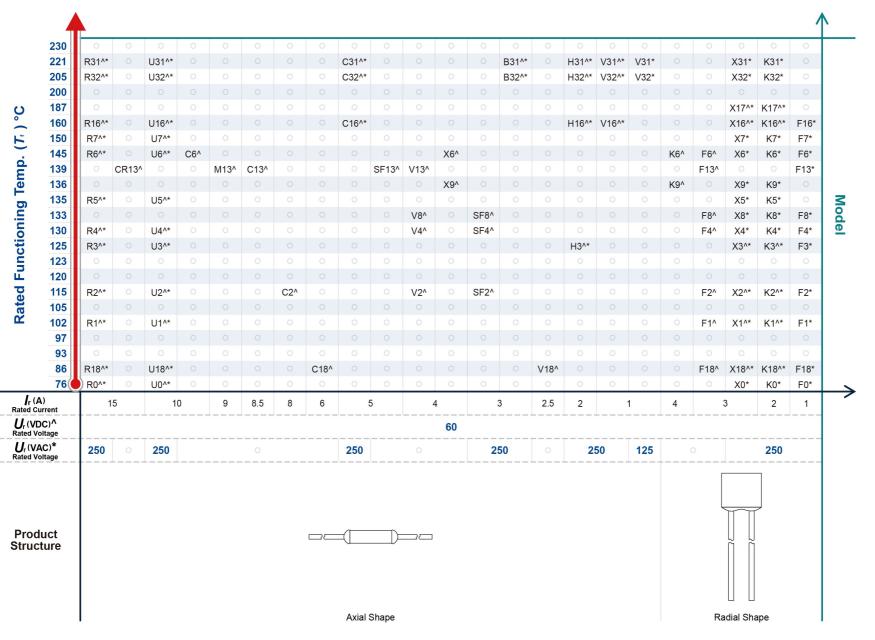
Direct Current Thermal-Link (Alloy Type)

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ATCO

ET safe SET fuse

HN Series



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

HN Series

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Direct Current Thermal-Link (Alloy Type)

DC

ATC

Ô

															/	N
230	0	0	0	0	0	0	0	0	0	0	0	ADN230B-NDZ^	ADN230B-PDZ^	0	ADN230B-QBZ^	
	XG31*	KG31*			C31*		B31*		H31*			0	0	ADN205B-NDZ^	0	
205	XG32*	KG32*			C33*		B32*		H32*							
200	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^*						S
133	XG8*	KG8*	C8^	C8*		B8^*		H8^*		V8^*						Model
130	XG4*	KG4*	C4^	C4*		B4^*		H4^*		V4^*						e
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*					
97	0				C21^*		B21^*		H21^*		V21^*					
93	0															
86	XG18^*	KG18^*		C18^*	C18*	B18^*	B18*	H18^*	H18*	V18^*	V18*					
) XG0*	KG0*	0	C0*	0	B0^*	B0*	H0^*	H0*	V0^*	V0*	0	0	0	0	\rightarrow
) rrent	3	2	7	Ę	5	3			2		1	50	55	50	80	Í
C)^ Itage	6	60					50					49	4	.8	24	
C)*	2	50	0	250	125	250	125	250	125	250	125)		
uct ture							Avial Sha	rial Shane								
	200 187 160 150 145 139 136 135 133 130 125 123 120 115 102 97 93 86 76 0 76 76 0 76 160 76 176 176 176 176 176 176 176 176 176 176 176 176 176	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* 0:rrent 3 134 XG0* 0:rrent 3 0:rrent 3 0:rrent 2 Jurce	221 XG31* KG31* 205 XG32* KG32* 200 O O 187 O O 187 O O 187 O O 187 XG16* KG16* 150 XG7* KG7* 145 XG6* KG6* 139 O O 136 XG9* KG9* 135 XG5* KG5* 133 XG4* KG4* 135 XG2^* KG3* 130 XG4* KG4* 123 O O 124 XG2^* KG2** 135 XG2** KG2** 120 O O 121 O O 122 XG1** KG1** 97 O O 93 O O 94 XG0* KG0* 97 3 2 97 G0 O 97 G0 O <th>221 XG31* KG31* O 205 XG32* KG32* O 200 O O O 187 O O O 160 XG16* KG16* C17^ 145 XG6* KG6* C6^ 139 O O C13^ 136 XG9* KG9* C9^ 135 XG6* KG6* C6^ 130 XG4* KG4* C4^ 121 O O O 122 XG1^* KG2^* C2^ 105 XG2* KG4* C4^ 120 O O O 121 XG1^* KG1^* O 97 O O O 97 O O O 93 O O O</th> <th>221 XG31* KG31* O O 205 XG32* KG32* O O 200 O O O O 187 O O O O 160 XG16* KG16* O O 150 XG7* KG7* C7^ C7* 145 XG6* KG6* C6^ C6* 139 O O C13^ C13* 136 XG9* KG9* C9^ C9* 135 XG8* KG8* C8^ C8* 130 XG4* KG4* C4^ C4* 125 XG2^* KG2^* C2^ C2* 120 O O O O 121 O O O O 120 O O O O 121 XG2^* KG2^* C2^ C2* 102 XG1^* KG1^* O C1** 97 O O O O</th> <th>221 XG31* KG31* O C31* 205 XG32* KG32* O C33* 200 O O O O O 187 O O O O O 160 XG16* KG16* C O O 150 XG7* KG7* C7^ C7* O 145 XG6* KG6* C6A C6* O 130 XG9* KG9* C9A C9* O 133 XG8* KG8* C8A C8* O 133 XG8* KG8* C3A C3* O 133 XG8* KG8* C3A C3* O 133 XG4* KG4* C4A C4* O 123 O O O O O 124 O O O O O 125 XG3A* KG1A* C2A C2* O 126 XG1A* KG1A* O C1A*</th> <th>221 XG31* KG31* O C31* O 205 XG32* KG32* O C33* O 200 O O O O O O 187 O O C13* C1* O B1** 145 XG6* KG6* C6A C6* O B6** 138 XG9* KG9* C9A C9* O B9** 135 XG5* KG5* C5* O B5** 133 XG4* KG4* C4^A C4* O B4** 125 XG3* KG3** C3* C3* D D 120 O O O O O O 121</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 XG16* KG16* C7^ C7* O B7* O 145 XG6* KG6* C6^ C6* O B6^* O 139 O O C13^ C13* O B9^* O 135 XG6* KG9* C9^A C9* O B9^* O 130 XG4* KG4* C4^A C4* O A4* O 122 XG3^* KG3^* C3^A C3* C3* B3** O 123 O O O O O O O O 123 XG2^** KG2^* C2^A C2* B2* O O</th> <th>221 XG31* KG31* 0 0 C31* 0 B31* 0 205 XG32* KG32* 0 0 0 0 0 0 200 0 0 0 0 0 0 0 0 187 0 0 0 0 0 0 0 0 0 180 XG1* KG1* C7A C7* 0 B7A* 0 H7A* 145 XG6* KG6* C6A C6* 0 B6A* 0 H6A* 139 0 C13^A C13* 0 B13** 0 H9A* 135 XG5* KG5* C5^A C5* 0 B5* 0 H9* 133 XG8* KG8* C8* C8* 0 B8* 0 H4* 133 XG4* KG4* C4A C4* 0 B4* 0 0 120 0 0 0 0 0 0 0 0 0</th> <th>221 XG31* KG31* O C31* O B31* O H31* 205 XG32* KG32* O C C33* D B32* O H32* 200 O <td< th=""><th>221 XG31* KG31* C C C31* C B31* H31* C 205 XG32* KG32* C C C33* B32* H32* C 200 C <td< th=""><th>221 XG31* KG31* G G C31* G B31* G H31* G G 205 XG32* KG32* G G C33* B32* H32* G G 200 G G G G G G G G G G 187 G</th><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0</th><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0</th><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 AB1* 0 0 0 0 ADN205B-MD2* 205 XG32* KG32* 0 0 C33* 0 B32* 0<!--</th--><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0 0 0 0 0 0 0 205 XG32* KG32* C 0</th></th></td<></th></td<></th>	221 XG31* KG31* O 205 XG32* KG32* O 200 O O O 187 O O O 160 XG16* KG16* C17^ 145 XG6* KG6* C6^ 139 O O C13^ 136 XG9* KG9* C9^ 135 XG6* KG6* C6^ 130 XG4* KG4* C4^ 121 O O O 122 XG1^* KG2^* C2^ 105 XG2* KG4* C4^ 120 O O O 121 XG1^* KG1^* O 97 O O O 97 O O O 93 O O O	221 XG31* KG31* O O 205 XG32* KG32* O O 200 O O O O 187 O O O O 160 XG16* KG16* O O 150 XG7* KG7* C7^ C7* 145 XG6* KG6* C6^ C6* 139 O O C13^ C13* 136 XG9* KG9* C9^ C9* 135 XG8* KG8* C8^ C8* 130 XG4* KG4* C4^ C4* 125 XG2^* KG2^* C2^ C2* 120 O O O O 121 O O O O 120 O O O O 121 XG2^* KG2^* C2^ C2* 102 XG1^* KG1^* O C1** 97 O O O O	221 XG31* KG31* O C31* 205 XG32* KG32* O C33* 200 O O O O O 187 O O O O O 160 XG16* KG16* C O O 150 XG7* KG7* C7^ C7* O 145 XG6* KG6* C6A C6* O 130 XG9* KG9* C9A C9* O 133 XG8* KG8* C8A C8* O 133 XG8* KG8* C3A C3* O 133 XG8* KG8* C3A C3* O 133 XG4* KG4* C4A C4* O 123 O O O O O 124 O O O O O 125 XG3A* KG1A* C2A C2* O 126 XG1A* KG1A* O C1A*	221 XG31* KG31* O C31* O 205 XG32* KG32* O C33* O 200 O O O O O O 187 O O C13* C1* O B1** 145 XG6* KG6* C6A C6* O B6** 138 XG9* KG9* C9A C9* O B9** 135 XG5* KG5* C5* O B5** 133 XG4* KG4* C4^A C4* O B4** 125 XG3* KG3** C3* C3* D D 120 O O O O O O 121	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 XG16* KG16* C7^ C7* O B7* O 145 XG6* KG6* C6^ C6* O B6^* O 139 O O C13^ C13* O B9^* O 135 XG6* KG9* C9^A C9* O B9^* O 130 XG4* KG4* C4^A C4* O A4* O 122 XG3^* KG3^* C3^A C3* C3* B3** O 123 O O O O O O O O 123 XG2^** KG2^* C2^A C2* B2* O O	221 XG31* KG31* 0 0 C31* 0 B31* 0 205 XG32* KG32* 0 0 0 0 0 0 200 0 0 0 0 0 0 0 0 187 0 0 0 0 0 0 0 0 0 180 XG1* KG1* C7A C7* 0 B7A* 0 H7A* 145 XG6* KG6* C6A C6* 0 B6A* 0 H6A* 139 0 C13^A C13* 0 B13** 0 H9A* 135 XG5* KG5* C5^A C5* 0 B5* 0 H9* 133 XG8* KG8* C8* C8* 0 B8* 0 H4* 133 XG4* KG4* C4A C4* 0 B4* 0 0 120 0 0 0 0 0 0 0 0 0	221 XG31* KG31* O C31* O B31* O H31* 205 XG32* KG32* O C C33* D B32* O H32* 200 O <td< th=""><th>221 XG31* KG31* C C C31* C B31* H31* C 205 XG32* KG32* C C C33* B32* H32* C 200 C <td< th=""><th>221 XG31* KG31* G G C31* G B31* G H31* G G 205 XG32* KG32* G G C33* B32* H32* G G 200 G G G G G G G G G G 187 G</th><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0</th><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0</th><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 AB1* 0 0 0 0 ADN205B-MD2* 205 XG32* KG32* 0 0 C33* 0 B32* 0<!--</th--><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0 0 0 0 0 0 0 205 XG32* KG32* C 0</th></th></td<></th></td<>	221 XG31* KG31* C C C31* C B31* H31* C 205 XG32* KG32* C C C33* B32* H32* C 200 C <td< th=""><th>221 XG31* KG31* G G C31* G B31* G H31* G G 205 XG32* KG32* G G C33* B32* H32* G G 200 G G G G G G G G G G 187 G</th><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0</th><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0</th><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 AB1* 0 0 0 0 ADN205B-MD2* 205 XG32* KG32* 0 0 C33* 0 B32* 0<!--</th--><th>221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0 0 0 0 0 0 0 205 XG32* KG32* C 0</th></th></td<>	221 XG31* KG31* G G C31* G B31* G H31* G G 205 XG32* KG32* G G C33* B32* H32* G G 200 G G G G G G G G G G 187 G	221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0	221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0	221 XG31* KG31* 0 0 C31* 0 B31* 0 AB1* 0 0 0 0 ADN205B-MD2* 205 XG32* KG32* 0 0 C33* 0 B32* 0 </th <th>221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0 0 0 0 0 0 0 205 XG32* KG32* C 0</th>	221 XG31* KG31* 0 0 C31* 0 B31* 0 H31* 0 0 0 0 0 0 0 205 XG32* KG32* C 0

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HN Series

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