

XG Series



Features

Temp.

Radial

Non-Resettable

High Accuracy of Functioning

RoHS & REACH Compliant

Structure Diagrams

Description

Thermal-Link (ATCO)-Alloy Type 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.

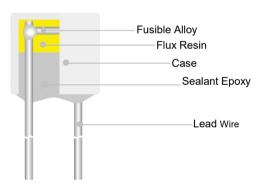
SETsafe | SETfuse Thermal-Link (ATCO)-Alloy Type XG series Rated Functioning Temp. from 76 °C to 221 °C, Rated Current: 3 A, safety certification Includes UL, cUL, TUV, PSE, CCC, and complies with RoHS and REACH.

Applications

- Lamps
- Switched-Mode Power Supplies
- Home Electrical Appliances
- Transformers
- Motors
- Batteries

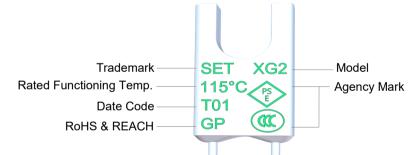
Customization

- Other Temp.
- The Length of Lead Wires
- Taping Packing Available
- Lead Wires can be Insulated
 - Tinned Copper Wires or CP Wires
 - Leads Forming Types



Marking

Radial (Color for reference only)



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

Dimensions (mm)

L	L ₁	L ₂	W	W ₁	т	d	F								
10.0 ± 0.5	74.0 ± 3.0	5.8 ± 0.5	5.8 ± 0.5	3.2 ± 0.5	2.3 ± 0.2	0.54 ± 0.05	3.7 ± 0.5								

L₂

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XG Series

Thermal-Link (ATCO)-Alloy Type

Specifications

		Model	Fusing Temp.	T _h	T _m	I _r	Ur	AI ®	c 	4	PS E		RoHS REACH
			(°C)	(°C)	(°C)	(A)	(V)	UL	cUL	τυν	PSE	CCC	REAGI
2	21	XG31	218 ± 2	188	250	3	AC 250	•	•	•	•	0	•
2	.21	XG31	210 1 2	100	200	5	DC *	0	0	0	0	0	٠
2	205	XG32	199 ± 3	169	250	3	AC 250	•	•	•	•	0	•
	.05	7632	199 1 3	109	230	5	DC *	0	0	0	0	0	•
1	60	XG16	154 ± 2	135	200	3	AC 250	0	0	•	•	•	•
_	00		104 1 2	100	200		DC *	0	0	0	0	0	•
1	50	XG7	145 ± 2	126	200	3	AC 250	•	•	•	•	•	•
	50	707	140 1 2	120	200	5	DC *	0	0	0	0	0	•
	45	XG6	140 ± 2	121	200	3	AC 250	•	•	•	•	•	٠
1	45	790	140 ± 2	121	200	5	DC *	0	0	0	0	0	٠
4	36	XG9	131 ± 2	112	200	3	AC 250	•	•	•	•	•	•
	30	769	131 ± 2	112	200	5	DC *	0	0	0	0	0	•
1	35	XG5	130 ± 2	111	200	3	AC 250	•	•	•	•	•	•
_	55	700	130 ± 2		200		DC *	0	0	0	0	0	•
1	33	XG8	130 ± 2	111	200	3	AC 250	•	•	•	•	•	•
_			100 - 2				DC *	0	0	0	0	0	•
	30	XG4	125 ± 2	106	200	3	AC 250	•	•	•	•	•	•
_							DC *	0	0	0	0	0	•
1	25	XG3	121 ± 2	100	200	3	AC 250	•	•	•	•	•	•
							DC 60	•	•	0	0	0	•
1	15	XG2	111 ± 2	91	200	3	AC 250	•	•	•	•	•	•
							DC 60	•	•	0	0	0	•
1	02	XG1	98 ± 2	79	200	3	AC 250	•	•	•	•	•	•
							DC 60	•	•	0	0	0	•
8	86	XG18	81 ± 2	61	200	3	AC 250	•	•	•	•	•	•
							DC 60 AC 250	•	•	•	•	0	•
7	76	XG0	73 ± 2	53	200	3	DC *	0	0	0	0	0	•

Note:

o

1: " \bullet "Means certificated, " \bigcirc "Means non-certificated, RoHS & REACH Compliant .

2: " * "Customizable DC voltage.

XG Series

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Agency Information

Agency Symbol	Standards	The File No. and certification No. obtained by SETsafe SETfuse
RI ®	UL 60691	E214712
c FL ®	CAN-CSA-E60691	E214712
\blacksquare	EN 60691	R50384415
PS E	J60691	JET2121-32001-2021、JET2121-32001-2022 JET2121-32001-2023、JET2121-32001-2024 JET2121-32001-2025、JET2121-32001-2026 JET2121-32001-2027、JET2121-32001-2028
>>	GB 9816.1	2020980205000195

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.
- 3. When soldering conditions are more severe than those listed in Table T-1, a heat sink fixture should be used between soldering point and ATCO body.
- 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.		Max. Allow	able Sol	dering Tin	ne for Differer	nt Lead V	Vire Lengt	h (Fig.T-1)		Max. Soldering Temp.
(<i>T</i> _f)	Ls	Time)	L _s	Time		L _s	Tim	e	
	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)
76 to 101	10	1 ^a	4	20	2	5	30	3	6	
102 to 115	10	1 ^a	4	20	2	5	30	3	6	
116 to 135	10	1 ^a	4	20	3	6	30	5	8	400
136 to 150	10	3	6	20	5	8	30	5	8	
151 to 221	10	4	7	20	6	9	30	7	10	

Note:

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

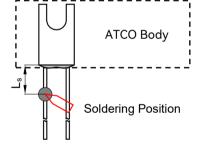


FIGURE T-1

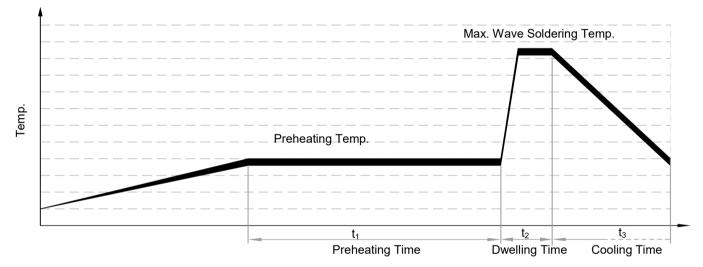
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Wave Soldering

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.	Who	-		ng Temp. re is Different	Preheating Time (t ₁)	Max. Wave Soldering	Dwelling Time (t ₂)	Cooling Time (t ₃)
(<i>T</i> _f)	L₅ Length	Preheating Temp.	L _s Length	Preheating Temp.		Temp.		
(°C)	(mm)	(°C)	(mm)	(°C)	(s)	(°C)	(s)	(s)
76 to 130				Recommend	I Hand-Soldering	l	· · · · · · · · · · · · · · · · · · ·	
131 to 150	20	80	30	90	< 60	≤ 260	≤ 3	≤ 10
151 to 221	20	90	30	100	< 60	≤ 260	≤ 3	≤ 10



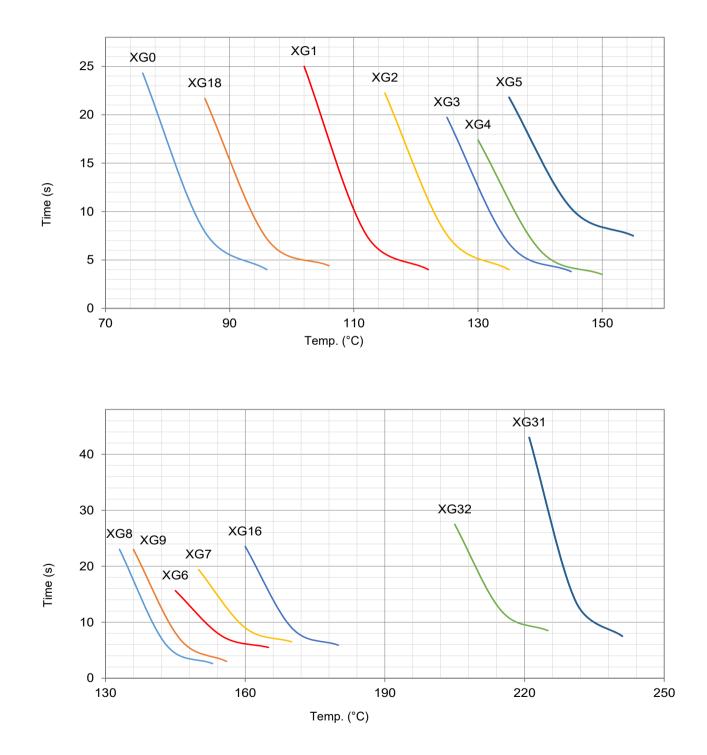
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Thermal-Link (ATCO)-Alloy Type

Product Temp.-Time Curve (Reference)

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



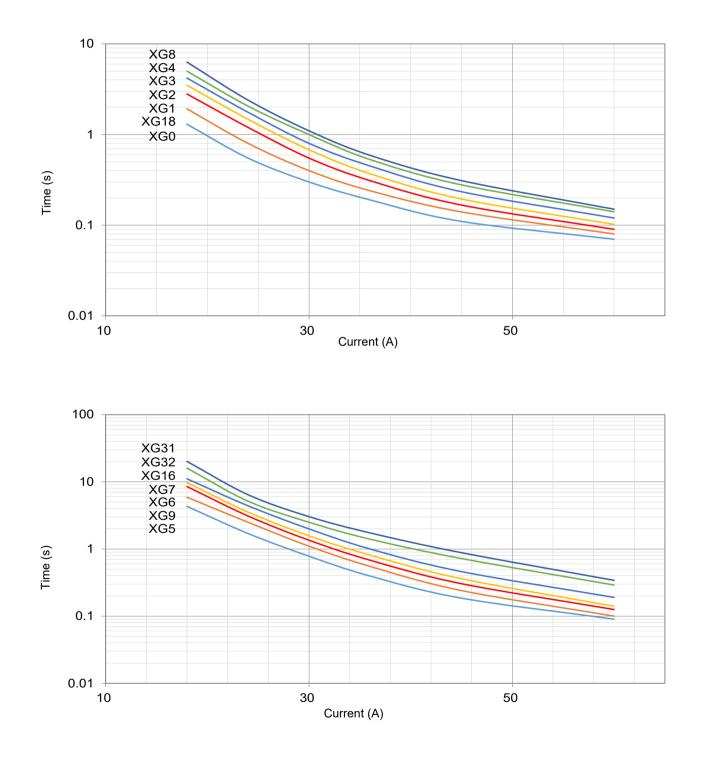
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Thermal-Link (ATCO)-Alloy Type

Product Current-Time Curve (Reference)

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





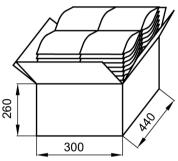
XG Series

Packaging Information

Bulk

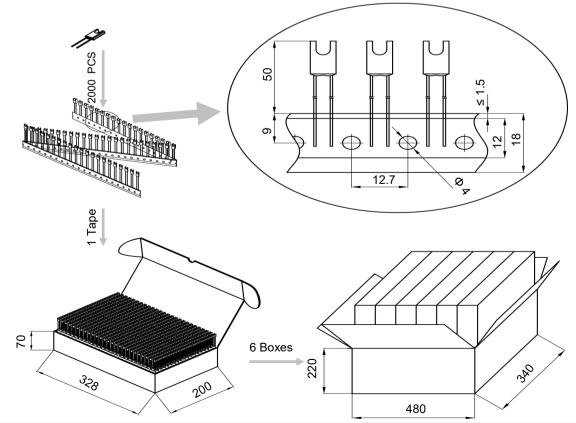
Item	PE Bag	PE Bag	Carton
Dimensions (mm)	135 × 85	190 × 180	440 × 300 × 260
Quantity (PCS)	100	1000	50000
Gross Weight (kg)		·	17.0 ± 10%





Taping

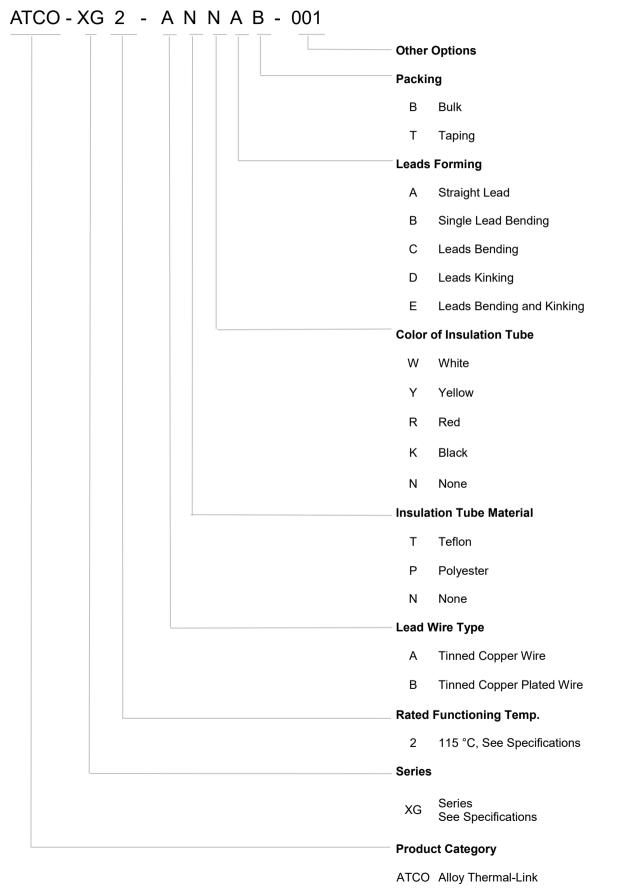
Item	Box	Carton
Dimensions (mm)	328 × 200 × 70	480 × 340 × 220
Quantity (PCS)	2000	12000
Gross Weight (kg)		6 ± 10%





XG <u>Series</u>

Part Numbering System





XG Series

Glossary

Item	Description
	Thermal-Link
700	A non-resettable device incorporating a THERMAL ELEMENT which will open a circuit once only when exposed for a
тсо	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
	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.
T _f	To THA as the only load.
	— (GB 9816.1
	Tolerance: <i>T</i> _f °C (GB 9816.1, EN 60691, K60691).
	Tolerance: $T_f \pm 7 ^{\circ}C$ (J60691).
	Fusing Temp.
	The temperature of the Alloy Thermal-Link which causes it to change its state of conductivity is measured with silicone oil
Fusing Temp.	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.
	The Maximum temperature at which a Alloy Thermal-Link will not change its state of conductivity when conducting rated
T _h	current for 168 hours.
	— (GB 9816.1)
	Maximum Temp. Limit
_	The temperature of the Alloy Thermal-Link stated by the manufacturer, up to which the mechanical and electrical properties
T _m	of the Alloy Thermal-Link having changed its state of conductivity, will not be impaired for a given time.
	— (GB 9816.1)
	Rated Current The current used to classify a Alloy Thermal-Link, which is the Maximum current that Alloy Thermal-Link allows to carry and
I _r	is able to cut off the circuit safely.
	— (GB 9816.1)
	-
	Rated Voltage The voltage used to classify a Alloy Thermal-Link, which is the Maximum voltage that Alloy Thermal-Link allows to carry and
Ur	is able to cut off the circuit safely.
	— (GB 9816.1
	Nominal Discharge Current
<i>I</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)
	(OL 1443)
	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)

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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.



XG 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.

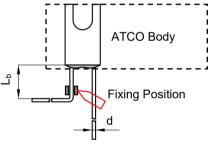


FIGURE T-2

TABLE T-3 Distance between Body and Bending Point

	d	(mm)	< 1.0	1.0 - 1.2	> 1.2
Circular lead	L _b	(mm)	≥ 3	≥5	≥ 10

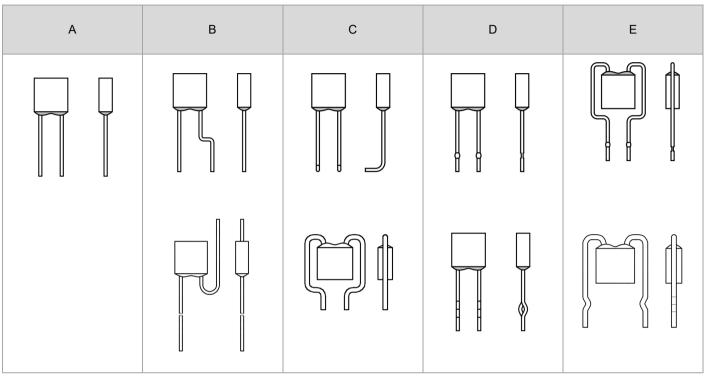


XG Series

Leads Forming Types

The below leads forming is for reference, more leads forming can be customized.

Radial



Prod													\square											
U _r (V. Rated Vo														250										
/ r (A tated Cu		1	2	3	5	10	15	1	2	3	5	10	15 16	20	25	30	40	2	3	10	10	10	15 16	
	76) VO	HO	В0	C0	UO	R0	F0	K0	X0	Y0	0	0	0	0	0	0	KG0	XG0	0	0	0	0	
	86	V18	H18	B18	C18	U18	R18	F18	K18	X18	Y18	0	0	0	0	0	0	KG18	XG18	0	0	0	0	
	95	0	0	0	021	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	97	V21	H21	B21	C21	U1	0	0	0	X1	0	0	0	0	0	0	0102	0	O	0	0	0	0	
Ra La	105 102	0 V1	о Н1	о В1	0 C1	0	0 R1	0 F1	о К1	0	о Ү1	0 S102	O T102	0	0	0 N102	O G102	ି KG1	O XG1	0 SK102	0	0 SE102	0 TK102	
te	115	V2	H2	B2	C2	U2	R2	F2	K2	X2	Y2	S115	T115	P115	Q115	N115	G115	KG2	XG2	SK115	0	SE115	TK115	
L	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
un	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rated Functioning Temp. (<i>I</i> ⁴) [°] C	125	V3	H3	B3	C3	U3	R3	F3	K3	X3	Y3	S125	T125	0	0	N125	G125	KG3	XG3	SK125	0	SE125	TK125	
on	130	V4	H4	B4	C4	U4	R4	F4	K4	X4	Y4	0	0	0	0	N130	G130	KG4	XG4	SK130	0	0	TK130	e
ŭ	133	V8	H8	B8	C8	0	0	F8	K8	X8	Y8	0	0	0	0	0	0	KG8	XG8	0	0	0	0	Model
-	135	V5	H5	B5	C5	U5	R5	0	K5	X5	0	0	0	0	0	0	0	KG5	XG5	SK135	0	SE135	TK135	Ξ
em	136	V9	H9	B9	C9	0	0		K9	X9	Y9	S136	T136	P136	Q136	N136	G136	KG9	XG9	0	0	0	0	
ġ	139	V0 V13	H13	B13	C13	00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ľ	150 145	V7 V6	H7 H6	B7 B6	C7 C6	U7 U6	R7 R6	F7 F6	K7 K6	X7 X6	Y7 Y6	S150	T150	0	0	N150	G150	KG7 KG6	XG7 XG6	SK150 SK145	0	SE150 SE145	TK150 TK145	
(160	V16	H16	B16	C16	U16	R16	F16	K16	X16	Y16	0	0	0	0	0	0	KG16	XG16	SK160	0	0	TK160	
5	187	0	0	0	0	0	0	0	K17	X17	Y17	0	0	0	0	0	0	0	0	0	0	0	0	
	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	SKL200	SE200	0	
	205	V32	H32	B32	C32	U32	R32	0	K32	X32	0	0	0	0	0	0	0	KG32	XG32	SK205	0	0	TK205	
	221	V31	H31	B31	C31	U31	R31	0	K31	X31	0	0	0	0	0	0	0	KG31	XG31	SK221	0	0	TK221	
	230	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	SKL230	SE230	0	

Radial Shape

Thermal-Link (ATCO)-Alloy Type Feature & Model List Overview

Axial Shape

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Radial Shape (Screw Hole)

																						1	\
	230	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	221	0	0		0	0	0	0	0		0	0	0	0	0	0	0		0	0	0	0	
	205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	200	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
()	187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ပ္	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
-i	150	0	0	KM7	XM7	Y7	YM7	SM150	TM150	0	KM7	XM7	0	0	HU7	HR7	0	0	HC7	0	HL7	HW7	
	145	SY145	TY145	0	0	0	0	0	0	0	0	0	0	0	HU6	HR6	HS145	HP145	HC6	HN145	HL6	HW6	
du	139	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ter	136	0	0	0	0	Y9	YM9	SM136	TM136	Q136	0	0	P136	Q136	0	0	HS136	HP136	0	HN136	0	0	
່ວ	135	0	0	KM5	XM5	0	0	0	0	0	KM5	XM5	0	0	HU5	HR5	0	0	HC5	0	HL5	HW5	Model
in	133	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	od
Rated Functioning Temp. (<i>T</i> ,)	130	SY130	TY130	KM4	XM4	Y4	YM4	0	0	0	KM4	XM4	0	0	HU4	HR4	0	0		0	HL4	HW4	œ
ct	125	SY125	TY125	0	0	0	0	0	0	0	KM3	XM3	P125	Q125	HU3	HR3	HS125	HP125	HC3	HN125	HL3	HW3	
un	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	120		TY120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
tec	115	SY115	TY115	0	0	0	0	SM115		Q115	0	0	P115	Q115	HU2	HR2	0	0	HC2	0	HL2	HW2	
Ra	105		TY105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
_	102	0	0	0	0	0	0	SM102		0	0	0	P102	Q102	HU1	HR1	0	0	HC1	0	HL1	HW1	
	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	95	SY95	TY95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	86	0	0	0	0	0	0	0	0	0	0	0	0	0	HU18	HR18	0	0	HC18	0	HL18	HW18	
	76)	0	0	0	0	0	0	0	0	0	0	0	0	HU0	HR0	0	0	HC0	0	HL0	HW0	\rightarrow
r (Rated C	A) Current	10	15	2	3	5	5	10	15 16	25	2	3	20	25	10	15	5	10	5	15	10	15	
Ur (N Rated N	/AC) /oltage	2	50				300				3	20	40	00		50	00		6	90	8	00	
Proc Struc		Cylin	drical					Ę	L L L L L L L L L L L L L L L L L L L	pe					() () () () () () () () () ()]]] Shape		Shape ectrode)	Axial Shape	Axial Shape (Flat	Axial]]] Shape	

Thermal-Link (ATCO)-Alloy Type Feature & Model List Overview

XG Series

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																					/	\
230	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0			0		0	0	0		0	0	0	0	0		R31	0	
205	0	0	0	0	0	V32		0	B32	0	0	0	C32	0	0	0	0	0	U32	R32	0	
200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
160	0	0	0	0	0	V16	H16	0	B16	0	0	0	C16	0	0	0	0	0	U16	R16	0	
150	V7	H7	B7	0	C7	0	0	0	0	0	0	0	0	0	0	0	0	0	U7	R7	0	
145	V6	H6	B6	0	C6	0	0	0	0	0	0	0	0	0	0	0	0	C6	U6	R6	0	
139	V13	H13	B13	0	C13	0	0	0	0	0	SF13	V13	0	0	0	C13	M13	0	0	0	CR13	
136	V9	H9	B9		C9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
135	V5	H5	B5	0	C5	0	0	0	0	0	0	0	0	0	0	0	0	0	U5	R5	0	Model
133	V8	H8	B8	0	C8	0	0	0	0	SF8	0	V8	0	0	0	0	0	0	0	0	0	bo
130	V4	H4	B4	0	C4	0	0	0	0	SF4	0	V4	0	0	0	0	0	0	U4	R4	0	e
125	V3		B3	0	C3	0	H3	0	0	0	0	0	0	0	0	0	0	0	U3	R3	0	
123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		H2	B2	0	C2						0		0	0	C2		0	0	U2	R2	0	
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	Í																					\rightarrow
urrent	1	2	3	5	/	1	2	2.5	3	3	5	4	5	6	8	8.5	9	10	10	15	15	
DC)			50										6	0								
luct ture													_									
	200 187 160 150 145 139 136 135 133 130 125 123 120 115 105 102 97 95 86 76 A) urrent DC) oltage	221 ○ 205 ○ 200 ○ 187 ○ 160 ○ 150 V7 145 V6 139 V13 136 V9 135 V5 133 V8 130 V4 125 V3 123 ○ 124 V2 105 ○ 102 V1 97 V21 95 ○ 86 V18 76 V0 A) 1 DC) □	221 ○ ○ 205 ○ ○ 200 ○ ○ 187 ○ ○ 160 ○ ○ 150 V7 H7 145 V6 H6 139 V13 H13 136 V9 H9 135 V5 H5 133 V8 H8 130 V4 H4 125 V3 ○ 120 ○ ○ 123 ○ ○ 124 ○ ○ 125 V2 H2 105 ○ ○ 102 V11 H1 97 V21 H21 95 ○ ○ 86 V18 H18 76 V0 H0 A) 1 2 DC) □ □	221 0 0 0 205 0 0 0 200 0 0 0 187 0 0 0 160 0 0 0 150 V7 H7 B7 145 V6 H6 B6 139 V13 H13 B13 136 V9 H9 B9 135 V5 H5 B5 133 V8 H8 B8 130 V4 H4 B4 125 V3 0 0 120 0 0 0 121 V2 H2 B2 105 V2 H2 B2 105 0 0 0 86 V18 H18 B18 76 V0 H0 B0 A) urrent 1 2 3 DC) oltage 50 50	221 0 0 0 0 205 0 0 0 0 200 0 0 0 0 187 0 0 0 0 160 0 0 0 0 160 0 0 0 0 150 V7 H7 B7 0 145 V6 H6 B6 0 139 V13 H13 B13 0 136 V9 H9 B9 0 135 V5 H5 B5 0 133 V8 H8 B8 0 130 V4 H4 B4 0 123 0 0 0 0 120 0 0 0 0 102 V1 H1 B1 C1 97 V21 H21 B21 C21 95 0 0 0 0 86 V18 H18 B18 <t< th=""><th>221 0 0 0 0 0 205 0 0 0 0 0 0 200 0 0 0 0 0 0 187 0 0 0 0 0 0 160 0 0 0 0 0 0 150 V7 H7 B7 0 C7 145 V6 H6 B6 0 C6 139 V13 H13 B13 0 C13 136 V9 H9 B9 0 C9 135 V5 H5 B5 0 C5 133 V8 H8 B8 0 C3 120 0 0 0 0 0 121 V2 H2 B2 0 C2 102 V1 H1 B1 C1 0 97 V21 H21 B21 C21 0 95 0 0 0</th><th>221 0</th><th>221 0 0 0 0 0 131 205 0 0 0 0 0 0 132 200 0 0 0 0 0 0 0 0 187 0 0 0 0 0 0 0 0 187 0 0 0 0 0 0 0 0 160 0 0 0 0 0 0 0 0 160 V7 H7 B7 0 C7 0 0 145 V6 H6 B6 0 C6 0 0 139 V13 H13 B13 0 C13 0 0 136 V9 H9 B9 0 C9 0 0 131 V13 H8 B8 0 C3 0 0 120 V3 H2 B2 0 C2 0 0 102 V1 H1</th><th>221 0 0 0 0 0 V31 H31 0 205 0 0 0 0 0 0 0 0 0 200 0 0 0 0 0 0 0 0 0 187 0 0 0 0 0 0 0 0 160 0 0 0 0 0 0 0 0 160 0 0 0 0 0 0 0 0 161 V7 H7 B7 0 C7 0 0 0 139 V13 H13 B13 0 C13 0 0 0 136 V9 H9 B9 0 C9 0 0 0 133 V8 H8 B8 0 C8 0 0 0 120 V3 B3 0 C3 0 0 0 0 121 V2 H2<</th><th>221 0 0 0 0 V31 H31 0 B31 205 0 0 0 0 0 V32 H32 0 B32 200 0 0 0 0 0 0 0 0 0 0 187 0 0 0 0 0 0 0 0 0 1860 0 0 0 0 0 0 0 0 0 160 V7 H7 B7 0 C7 0 0 0 0 138 V13 H13 B13 0 C13 0 0 0 0 139 V13 H13 B13 0 C5 0 0 0 0 0 131 V5 H5 B5 0 C5 0</th><th>221 0 0 0 0 V31 H31 0 B31 0 205 0 <</th><th>221 0 0 0 0 V31 H31 0 B31 0 0 205 0 0 0 0 0 V32 H32 0 B32 0 0 200 0</th></t<> <th>221 ○</th> <th>221 0 0 0 0 V31 H31 0 B31 0 0 0 C31 205 0 0 0 0 0 V32 H32 0 B32 0</th> <th>221 0 0 0 0 V31 H31 0 B31 0 0 0 C31 0 205 0</th> <th>221 0 0 0 0 V31 H31 0 B31 0 0 0 C31 0 0 205 0</th> <th>221 0 0 0 0 V31 H31 0 B31 0 0 C31 0 <th< th=""><th>221 0 0 0 0 V31 H31 0 B31 0 0 C31 0 0 0 200 0 0 0 0 0 V32 H32 0 B32 0 0 C32 0 0 0 0 0 200 0</th><th>221 0 0 0 0 0 131 131 0 831 0 0 C31 0 0 0 0 205 0 0 0 0 0 132 132 0 832 0 0 C32 0 0 0 0 0 206 0 <</th><th>221 0 0 0 0 0 1 H31 0 B31 0 0 C31 0 <</th><th>221 0 0 0 0 0 1 131 0 B31 0 <t< th=""><th>221 0 0 0 0 10 0 11 0 B31 0 <t< th=""></t<></th></t<></th></th<></th>	221 0 0 0 0 0 205 0 0 0 0 0 0 200 0 0 0 0 0 0 187 0 0 0 0 0 0 160 0 0 0 0 0 0 150 V7 H7 B7 0 C7 145 V6 H6 B6 0 C6 139 V13 H13 B13 0 C13 136 V9 H9 B9 0 C9 135 V5 H5 B5 0 C5 133 V8 H8 B8 0 C3 120 0 0 0 0 0 121 V2 H2 B2 0 C2 102 V1 H1 B1 C1 0 97 V21 H21 B21 C21 0 95 0 0 0	221 0	221 0 0 0 0 0 131 205 0 0 0 0 0 0 132 200 0 0 0 0 0 0 0 0 187 0 0 0 0 0 0 0 0 187 0 0 0 0 0 0 0 0 160 0 0 0 0 0 0 0 0 160 V7 H7 B7 0 C7 0 0 145 V6 H6 B6 0 C6 0 0 139 V13 H13 B13 0 C13 0 0 136 V9 H9 B9 0 C9 0 0 131 V13 H8 B8 0 C3 0 0 120 V3 H2 B2 0 C2 0 0 102 V1 H1	221 0 0 0 0 0 V31 H31 0 205 0 0 0 0 0 0 0 0 0 200 0 0 0 0 0 0 0 0 0 187 0 0 0 0 0 0 0 0 160 0 0 0 0 0 0 0 0 160 0 0 0 0 0 0 0 0 161 V7 H7 B7 0 C7 0 0 0 139 V13 H13 B13 0 C13 0 0 0 136 V9 H9 B9 0 C9 0 0 0 133 V8 H8 B8 0 C8 0 0 0 120 V3 B3 0 C3 0 0 0 0 121 V2 H2<	221 0 0 0 0 V31 H31 0 B31 205 0 0 0 0 0 V32 H32 0 B32 200 0 0 0 0 0 0 0 0 0 0 187 0 0 0 0 0 0 0 0 0 1860 0 0 0 0 0 0 0 0 0 160 V7 H7 B7 0 C7 0 0 0 0 138 V13 H13 B13 0 C13 0 0 0 0 139 V13 H13 B13 0 C5 0 0 0 0 0 131 V5 H5 B5 0 C5 0	221 0 0 0 0 V31 H31 0 B31 0 205 0 <	221 0 0 0 0 V31 H31 0 B31 0 0 205 0 0 0 0 0 V32 H32 0 B32 0 0 200 0	221 ○	221 0 0 0 0 V31 H31 0 B31 0 0 0 C31 205 0 0 0 0 0 V32 H32 0 B32 0	221 0 0 0 0 V31 H31 0 B31 0 0 0 C31 0 205 0	221 0 0 0 0 V31 H31 0 B31 0 0 0 C31 0 0 205 0	221 0 0 0 0 V31 H31 0 B31 0 0 C31 0 <th< th=""><th>221 0 0 0 0 V31 H31 0 B31 0 0 C31 0 0 0 200 0 0 0 0 0 V32 H32 0 B32 0 0 C32 0 0 0 0 0 200 0</th><th>221 0 0 0 0 0 131 131 0 831 0 0 C31 0 0 0 0 205 0 0 0 0 0 132 132 0 832 0 0 C32 0 0 0 0 0 206 0 <</th><th>221 0 0 0 0 0 1 H31 0 B31 0 0 C31 0 <</th><th>221 0 0 0 0 0 1 131 0 B31 0 <t< th=""><th>221 0 0 0 0 10 0 11 0 B31 0 <t< th=""></t<></th></t<></th></th<>	221 0 0 0 0 V31 H31 0 B31 0 0 C31 0 0 0 200 0 0 0 0 0 V32 H32 0 B32 0 0 C32 0 0 0 0 0 200 0	221 0 0 0 0 0 131 131 0 831 0 0 C31 0 0 0 0 205 0 0 0 0 0 132 132 0 832 0 0 C32 0 0 0 0 0 206 0 <	221 0 0 0 0 0 1 H31 0 B31 0 0 C31 0 <	221 0 0 0 0 0 1 131 0 B31 0 <t< th=""><th>221 0 0 0 0 10 0 11 0 B31 0 <t< th=""></t<></th></t<>	221 0 0 0 0 10 0 11 0 B31 0 <t< th=""></t<>

Thermal-Link (ATCO)-Alloy Type Feature & Model List Overview

XG Series

SET safe SET fuse

	-																	/	N
	230	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	221	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
°	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<u>ت</u>	150	0	0	0	0	0	0	S150	T150	0	0	SD150	TD150	PD150	QD150	HS150	HP150	HN150	
Rated Functioning Temp. (T,) °C	145	0	0	0	0	F6	X6	0	0	0	0	0	0	0	0	0	0	0	
	139	0	0	0	0	F13	0	0	0	0	0	0	0	0	0	0	0	0	
	136	0	0	0	0	0	X9	S136	T136	P136	Q136	SD136	TD136	PD136	QD136	HS136	HP136	HN136	
	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Z
	133	0	0	0	0	F8	0	0	0	0	0	0	0	0	0	0	0	0	Model
	130	0	0	0	0	F4	0	0	0	0	0	SD130	TD130	PD130	QD130	0	0	0	<u>e</u>
	125	KG3	XG3	K3	X3	0	0	S125	T125	P125	Q125	SD125	TD125	PD125	QD125	HS125	HP125	HN125	
	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	120	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	
	115	KG2	XG2	K2	X2	F2	0	S115	T115	P115	Q115	SD115	TD115	PD115	QD115	0	0	0	
	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	102	KG1	XG1	K1	X1	F1	0	S102	T102	P102	Q102	SD102	TD102	PD102	QD102	0	0	0	
	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	86	KG18	XG18	K18	X18	F18	0	0	0	0	0	0	0	0	0	0	0	0	
	76)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\rightarrow
/r (A) Rated Current		2	3	2	3	3	4	10	15 16	20	25	10	15 16	20	25	5	10	15	-
U _r (VDC) Rated Voltage		60						100 120				125				200			
Product Structure		Radial Shape (Screw Hole) Radial Shape													Axial Shape (Flat Electrode)				

Thermal-Link (ATCO)-Alloy Type Feature & Model List Overview

SET safe SET fuse