



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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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.

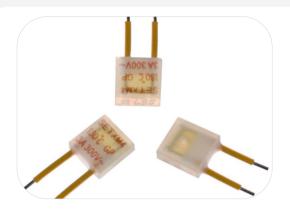
Contact us today! Our competent team will provide you with detailed advice and find the optimal solution for your requirements. Trust Alpha Therm GmbH and SETsafe/SETfuse – your partners for innovative safety solutions.

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XM Series



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 XM series Rated Functioning Temp. from 125 °C to 150 °C, Rated Current: 3 A, safety certification Includes UL, cUL, TUV, PSE, VDE, KC, CCC, and complies with RoHS and REACH.

Features

- Non-Resettable
- High Accuracy of Functioning
- RoHS & REACH Compliant

Applications

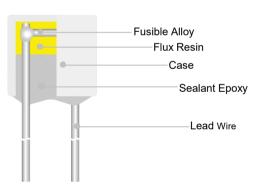
- Lamps
- Switched-Mode Power Supplies
- Home Electrical Appliances
- Transformers
- Motors
- **Batteries**

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**

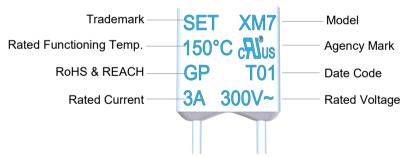
Structure Diagrams

Radial



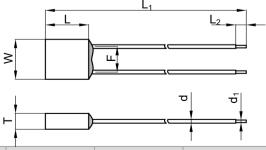
Marking

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	Т	d	d ₁	F
5.8 ± 0.5	70.0 ± 3.0	5.0 ± 1.0	5.8 ± 0.5	2.3 ± 0.2	0.8 ± 0.1	0.54 ± 0.05	3.7 ± 0.5



XM Series

Specifications

၁ _° (Model	Fusing Temp.	T_{h}	T_{m}	I _r	U r	71 ®	c 71 ®	A	PS E	(W)	RoHS REACH
$(7_{\rm f})$			(°C)	(°C)	(°C)	(A)	(V)	UL	cUL	TUV	PSE	ССС	
	150	XM7	145 ± 2	126	200	3	AC 300	•	•	•	•	•	•
Temp.	130	AWI	110 11	120	200	, and the second	AC 320	•	•	0	•	0	•
ng	135	XM5	130 ± 2	111	200	3	AC 300	•	•	•	•	•	•
io							AC 320	•	•	0	•	0	•
ınct	130	XM4	125 ± 2	106	200	3	AC 300	•	•	•	•	•	•
	130	XIVIT	120 2 2	100	200		AC 320	•	•	0	•	0	•
Rated	125	XM3	121 + 2	100	200	3	AC 300	0	0	0	•	•	•
R	123	XIVIO	121 ± 2	100	200	3	AC 320	•	•	0	•	0	•

^{1: &}quot;lacktriangle"Means certificated, " \bigcirc "Means non-certificated, RoHS & REACH Compliant .

^{2: &}quot; * "Customizable DC voltage.

XM Series

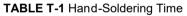
Agency Information

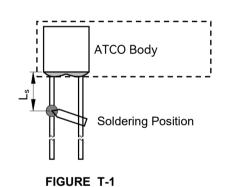
Agency Symbol	Standards	The File No. and certification No. obtained by SETsafe SETfuse
A l®	UL 60691	E214712
c ₹\ ®	CAN-CSA-E60691	E214712
A	EN 60691	R50388884
PS	J60691	JET2121-32001-2024 、JET2121-32001-2025
(W)	GB 9816.1	2023000205000009

Soldering

Hand-Soldering

- 1. Soldering should be carried out according to Table T-1.
- 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.





Rated Functioning Temp.		Max. Allow	able Sol	dering Tir	me for Differer	nt Lead V	/ire Lengt	h (Fig.T-1)		Max. Soldering Temp.
(<i>T</i> _f)	L _s Length	Time	•	L _s Length	Time		Ls	Time	е	
	Lengui	Tinned Copper Wire		Lengui	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 150	10	3	6	20	5	8	30	5	8	400

Note

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

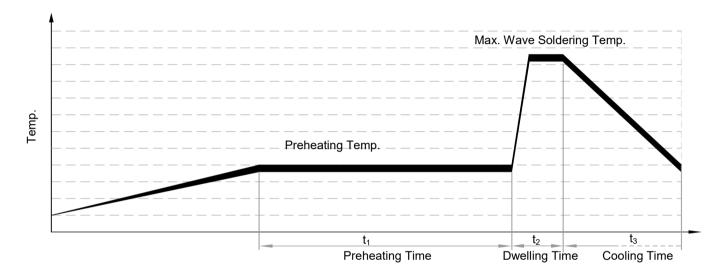
XM Series

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

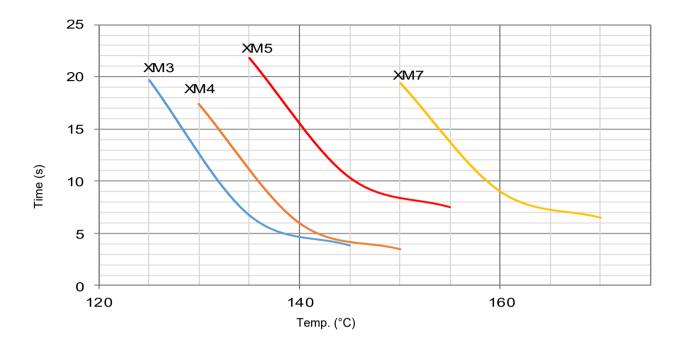
Rated Functioning Temp.	Who	_		ng Temp. e is Different	Preheating Time (t ₁)	Max. Wave Soldering	Dwelling Time (t ₂)	Cooling Time (t ₃)
(T _f)	L _s Length	Preheating Temp.	L _s Length	Preheating Temp.		Temp.		
(°C)	(mm) (°C)		(mm)	(°C)	(s)	(°C)	(s)	(s)
125 to 150	20	80	30	90	< 60	≤ 260	≤ 3	≤ 10



XM Series

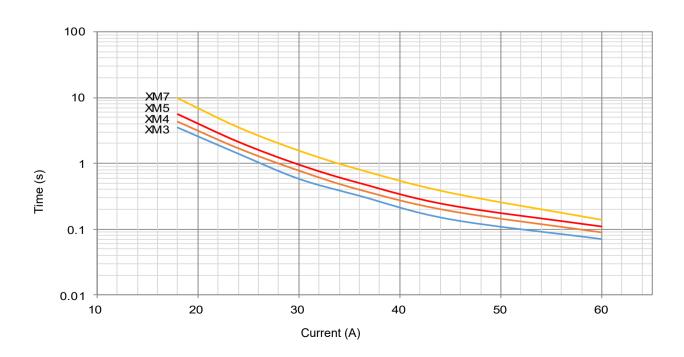
Product Temp.-Time Curve (Reference)

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.



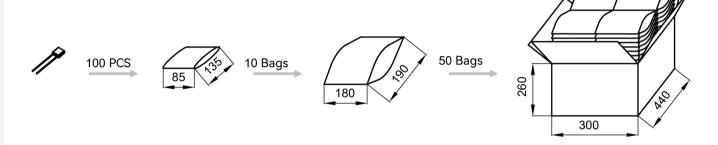




Packaging Information

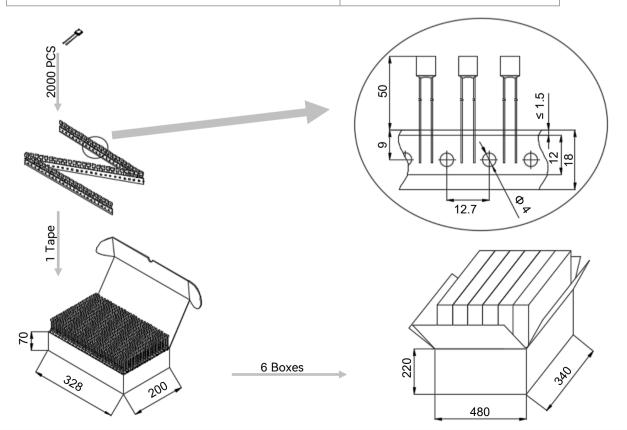
Bulk

Item	PE Bag	PE Bag	Carton
Dimensions (mm)	135 × 85	190 × 180	440 × 300 × 260
Quantity (PCS)	100	1000	50000
Gross Weight (kg)			21.0 ± 10%



Taping

Item	Вох	Carton
Dimensions (mm)	328 × 200 × 70	480 × 340 × 220
Quantity (PCS)	2000	12000
Gross Weight (kg)		6.5 ± 10%





XM Series

Part Numbering System







XM Series

Glossary

Item	Description
тсо	Thermal-Link 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.
ATCO	Alloy Thermal-Link Alloy Type Thermal-Link, Alloy is the thermal element. — (GB 9816.
T _f	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.
11	— (GB 9816. Tolerance: $T_{\rm f}$ °C (GB 9816.1, EN 60691, K60691). Tolerance: $T_{\rm f} \pm 7$ °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. — (GB 9816.
T _h	Holding Temp. 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.
T _m	Maximum Temp. Limit The temperature of the Alloy Thermal-Link stated by the manufacturer, up to which the mechanical and electrical propertie of the Alloy Thermal-Link having changed its state of conductivity, will not be impaired for a given time. — (GB 9816.
I _r	Rated Current The current used to classify a Alloy Thermal-Link, which is the Maximum current that Alloy Thermal-Link allows to carry ar is able to cut off the circuit safely. — (GB 9816.
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 are is able to cut off the circuit safely. — (GB 9816.
<i>I</i> n	Nominal Discharge Current Being able to withstand 15 peak currents of waveform 8/20 µs to test the product's durability of withstanding pulse current. — (UL 144)
I _{max}	Max. Discharge Current Being able to withstand 1 peak current of waveform 8/20 µs to test max. pulse current that the product can withstand. — (UL 144)

XM Series



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 $T_{\rm m}$ 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.

XM 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.

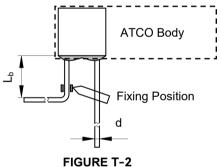


TABLE T-3 Distance between Body and Bending Point

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

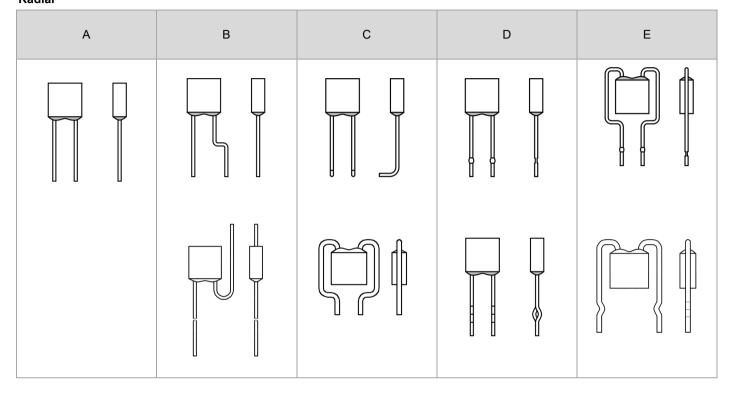


XM Series

Leads Forming Types

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

Radial



Rated Functioning Temp. ($ extit{T}_{ au}$) $^\circ$ C	150 145 139 136 135 133 130 125 123	V7 V6 V13 V9 V5 V8 V4 V3	H7 H6 H13 H9 H5 H8 H4 H3	B7 B6 B13 B9 B5 B8 B4 B3	C7 C6 C13 C9 C5 C8 C4 C3	U7 U6 U5 U4 U3	R7 R6 O R5 O R4 R3	F7 F6	K7 K6 K9 K5 K8 K4 K3	X7 X6 X9 X5 X8 X4 X3	Y7 Y6 Y9 Y8 Y4 Y3	\$150	T150	P136 O O O O O O O O O O O O O O O O O O	Q136 O	N150 N136 N130 N125	G150	KG7 KG6 KG9 KG5 KG8 KG4 KG3	XG7 XG6 XG9 XG5 XG8 XG4 XG3	SK150 SK145 SK135 SK130 SK125		SE150 SE145 SE135 SE125	TK150 TK145 TK135 TK130 TK125
Rated Fu	120 115 105 102 97 95 86 76	V2 V1 V21 V18 V0	H2H1H21H18H0	B2 B1 B21 B18 B0	© C2 © C1 C21 © C18 C0	0 U2 0 U1 0 U18 U0	R2R1R18R0	F2F1F18F0	K2K1K18K0	X2X1X18X0	Y2Y1Y18Y0	S115 S102 O	T115 T102 O	P115 O O O O O O	O Q115	N115 N102	G115 G102	KG2KG1KG18KG0	XG2 XG1 XG18 XG0	SK115 SK102 O		SE115 SE102 O	TK115TK102
Rated Co	A) urrent	1	2	3	5	10	15	1	2	3	5	10	15 16	20	25	30	40	2	3	10	10	10	15 16
Prod Struc	uct																						

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

	4																					/	\
	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	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	
Rated Functioning Temp. ($T_{ m r}$) $^{\circ}$ C	160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ę.	150	0	0	KM7	XM7	Y7	YM7	SM150	TM150	0	KM7	XM7	0	0	HU7	HR7	0	0	HC7	0	HL7	HW7	
9	145	SY145	TY145	0	0	0	0	0	0	0	0	0	0	0	HU6	HR6	HS145	HP145	HC6	HN145	HL6	HW6	
п	139	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
e,	136	0	0	0	0	Y9	YM9	SM136	TM136	Q136	0	0	P136	Q136	0	0	HS136	HP136	0	HN136	0	0	
_ _	135	0	0	KM5	XM5	0	0	0	0	0	KM5	XM5	0	0	HU5	HR5	0	0	HC5	0	HL5	HW5	3
<u>.</u>	133	0	0	0	0	0	0	0	0		0		0	0	0		0	0	0	0	0	0	Model
o	130	SY130	TY130	KM4	XM4	Y4	YM4	0	0	0	KM4	XM4	0	0	HU4	HR4	0	0		0	HL4	HW4	<u>e</u>
:	125	SY125	TY125	0	0	0	0	0	0		KM3	XM3	P125	Q125	HU3	HR3	HS125	HP125	HC3	HN125	HL3	HW3	
Ę	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
屲	120	SY120	TY120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
eq	115	SY115	TY115	0	0	0	0	SM115	TM115	Q115	0	0	P115	Q115	HU2	HR2	0	0	HC2	0	HL2	HW2	
at	105	SY105	TY105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
œ	102	0	0	0	0	0	0	SM102	TM102	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	0	HU0	HR0	0	0	HC0	0	HL0	HW0	
r (A Rated Ci		10	15	2	3	5	5	10	15 16	25	2	3	20	25	10	15	5	10	5	15	10	15	
U _r (V	AC)	2	50				300				33	20	40	00		5	00		6	90		00	
Prod Struc		Cylin	drical					Ra	adial Sha	pe					Axial	Shape		Shape	Axial	Axial Shape (Flat	Axial	Shape	

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

	4																					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	V31	H31	0	B31	0	0	0	C31	0	0	0	0	0	U31	R31	0	
	205	0	0	0	0	0	V32	H32	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	
O	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	
F	150	V7	H7	В7	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	
Ĕ	139	V13	H13	B13	0	C13	0	0	0	0	0	SF13	V13	0	0	0	C13	M13	0	0	0	CR13	
<u>a</u>	136	V9	H9	B9	0	C9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_
D	135	V5	H5	B5	0	C5	0	0	0	0	0	0	0	0	0	0	0	0	0	U5	R5	0	≥
Ė	133	V8	H8	B8	0	C8	0	0	0	0	SF8	0	V8	0	0	0	0	0	0	0	0	0	Model
.0	130	V4	H4	B4	0	C4	0	0	0	0	SF4	0	V4	0	0	0	0	0	0	U4	R4	0	-
Rated Functioning Temp. (T,) °C	125 123	V3	0	B3	0	C3	0	H3	0	0	0	0	0	0	0	0	0	0	0	U3	R3	0	
Ē	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	115	V2	H2	B2	0	C2	0	0	0	0	SF2	0	V2	0	0	C2	0	0	0	U2	R2	0	
<u>t</u>	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	02	R2	0	
8	103	V1	H1	B1	C1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	U1	R1	0	
	97	V21	H21	B21	C21	0	0	0	0	0	0	0	0	0	0	0	0	0	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	
	86	V18	H18	B18	C18	0	0	0	V18	0	0	0	0	0	C18	0	0	0	0	U18	R18	0	
	76) V0	H0	В0	CO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	UO	R0	0	
/ r((A)	1	2	3	5	7	1	2	2.5	3	3	5	4	5	6	8	8.5	9	10	10	15	15	\longrightarrow
Rated C			l									L										L	
U _r (\	/DC) /oltage			50			L							6	60 								
Proc Struc											→	xial Shap	Dec se										

XM Series

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

	4																	/	
Rated Functioning Temp. (T,) °C	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	Model
	200	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	
	150	0	0	0	0	0	0	S150	T150	0	0	SD150	TD150	PD150	QD150	HS150	HP150	HN150	
	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	
	133	0	0	0	0	F8	0	0	0	0	0	0	0	0	0	0	0	0	
	130	0	0	0	0	F4	0	0	0	0	0	SD130	TD130	PD130	QD130	0	0	0	🗓
	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	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		15	0	0	0	15	0	0	0	0	0	\rightarrow
Rated Current		2	3	2	3	3	4	10	16	20	25 	10	16	20	25	5	10	15 	
U _r (VDC) Rated Voltage		60						100 120				125				200			
Product Structure		Radial (Screv	Radial Shape (Screw Hole)												Axial Shape (Flat Electrode)				